



---

**TECHNICAL MANUAL****OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT AND  
GENERAL SUPPORT MAINTENANCE MANUAL  
(INCLUDING REPAIR PARTS AND  
SPECIAL TOOLS LIST)****SEMITRAILER, VAN: ELECTRONIC 10-TON,  
4 WHEEL**

<b>XM574</b>	<b>(2330-00-086-7406)</b>	<b>XM824</b>	<b>(2330-00-127-5415)</b>
<b>XM574EI</b>	<b>(2330-00-933-9944)</b>	<b>XM844</b>	<b>(2330-00-152-1817)</b>
<b>XM654</b>	<b>(2330-00-973-1608)</b>	<b>XM845</b>	<b>(2330-00-421-7286)</b>
<b>XM680</b>	<b>(2330-90-070-4452)</b>	<b>XM847</b>	<b>(2330-00-431-3428)</b>
<b>XM680E1</b>	<b>(2330-00-884-1749)</b>	<b>XM848</b>	<b>(2330-00-431-3429)</b>
<b>XM738</b>	<b>(2330-00-999-3893)</b>	<b>XM849</b>	<b>(2330-00-431-3433)</b>
<b>XM739</b>	<b>(2330-00-930-0024)</b>	<b>XM850</b>	<b>(2330-00-231-3441)</b>
<b>XM739EI</b>	<b>(2330-00-782-1377)</b>	<b>XM912</b>	<b>(2330-00-013-7764)</b>
<b>XM822</b>	<b>(2330-00-122-4966)</b>	<b>XM913</b>	<b>(2330-00-010-4954)</b>
<b>XM823</b>	<b>(2330-00-127-5405)</b>		

---

**HEADQUARTERS, DEPARTMENT OF THE ARMY  
26 JANUARY 1984**

**WARNING**  
HIGH VOLTAGE  
is used in the operation of this equipment

DEATH ON CONTACT  
may result if personnel fail to observe safety precautions

---

Be careful not to contact high-voltage connections or 115 and 208-volt ac input connections when working on this equipment.

Before working inside the equipment, turn power off and ground points of high potential before touching them.

EXTREMELY DANGEROUS POTENTIALS  
exist in the following units:  
Air Conditioner  
Heating System  
Circuit Breaker  
110-Volt Receptacle

For artificial respiration, refer to FM21-11.

---

When working on fuel tank, fuel lines and fuel pump, the work area must be well ventilated.

TECHNICAL MANUAL  
No. TM 9-2330-271-14&P }

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
WASHINGTON, D C, 26 January 1984

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT  
AND GENERAL SUPPORT MAINTENANCE MANUAL  
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)  
FOR

SEMITRAILER, VAN: ELECTRONIC, 10-TON, 4 WHEEL

XM574	(2330-00-086-7406)	XM824	(2330-00-127-5415)
XM574E1	(2330-00-933-9944)	XM844	(2330-00-152-1817)
XM654	(2330-00-973-1608)	XM845	(2330-00-421-7286)
XM680	(2330-00-070-4452)	XM847	(2330-00-431-3428)
XM680E1	(2330-00-884-1749)	XM848	(2330-00-431-3429)
XM738	(2330-00-999-3893)	XM849	(2330-00-431-3433)
XM739	(2330-00-930-0024)	XM850	(2330-00-231-3441)
XM739E1	(2330-00-782-1377)	XM912	(2330-00-013-7764)
XM822	(2330-00-122-4966)	XM913	(2330-00-010-4954)
XM823	(2330-00-127-5405)		

REPORTING OF ERRORS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in back of this manual direct to Commander, US Army Tank - Automotive Command, ATTN: DRSTA-MBP, Warren, MI 48090. A reply will be furnished to you.

		Paragraph	Page
CHAPTER	1. INTRODUCTION		
SECTION	I. General.....	1-1	1-1
	II. Description and data .....	1-7	1-1
CHAPTER	2. OPERATING INSTRUCTIONS		
SECTION	I. Operating procedures .....	2-1	2-1
	II. Operation of auxiliary equipment .....	2-14	2-8
	III. Operation under unusual conditions .....	2-19	2-9
CHAPTER	3. OPERATOR'S MAINTENANCE INSTRUCTIONS		
SECTION	I. Lubrication instructions.....	3-1	3-1
	II. Preventive maintenance checks and services .....	3-6	3-7
	III. Troubleshooting.....	3-8	3-9
	IV. Maintenance procedures .....	3-9	3-11
CHAPTER	4. ORGANIZATIONAL MAINTENANCE INSTRUCTIONS		
SECTION	I. Service upon receipt of materiel .....	4-1	4-1
	II. Movement to a new worksite .....	4-3	4-1
	III. Repair parts, special tools, and equipment .....	4-7	4-7
	IV. Lubrication instructions.....	4-9	4-7
	V. Preventive maintenance checks and services (PMCS) .....	4-10	4-7
	VI. Troubleshooting.....	4-13	4-10
	VII. Maintenance of electrical system .....	4-14	4-14
	VIII. Maintenance of brake system.....	4-31	4-37
	IX. Maintenance of wheels, hubs, and brake drums .....	4-45	4-50
	X. Maintenance of spare wheel carrier .....	4-48	4-51
	XI. Maintenance of leveling jack and landing gear .....	4-49	4-52
	XII. Maintenance of springs and torque rods .....	4-53	4-54
	XIII. Maintenance of air suspension system and air mounted fifth wheel kingpin .....	4-56	4-62

This manual supersedes TM 9-2330-271-14, 12 May 1972, Including all changes.

		Paragraph	Page
	XIV.	Maintenance of air mounted fifth wheel kingpin .....4-58	4-64
	XV.	Maintenance of van body and associated parts .....4-61	4-67
	XVI.	Maintenance under unusual conditions .....4-75	4-74
CHAPTER	5.	DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE INSTRUCTIONS	
SECTION	I.	Repair parts, special tools, and equipment .....5-1	5-1
	II.	Troubleshooting.....5-3	5-1
	III.	General Maintenance .....5-4	5-2
	IV.	Removal and installation of major components and assemblies .....5-7	5-3
CHAPTER	6.	REPAIR OF AXLE AND BRAKE ASSEMBLY AND SPRING SEAT.....6-1	6-1
CHAPTER	7.	REPAIR OF LANDING GEAR .....7-1	7-1
CHAPTER	8.	REPAIR OF SPRING AND TORQUE RODS.....8-1	8-1
CHAPTER	9.	MAINTENANCE OF AUXILIARY EQUIPMENT.....9-1	9-1
APPENDIX	A.	References .....A-1	A-1
APPENDIX	B.	COMPONENTS OF END ITEM AND BASIC ISSUE ITEMS LIST	
SECTION	I.	Introduction.....B-1	B-1
	II.	Integral components of end item	
	III.	Basic issue items	
APPENDIX	C.	ADDITIONAL AUTHORIZATION LIST	
SECTION	I.	Introduction.....C-1	C-1
	II.	Additional authorization list	
APPENDIX	D.	MAINTENANCE ALLOCATION CHART	
SECTION	I.	Introduction.....D-1	D-1
	II.	Maintenance Allocation Chart.....D-2	D-2
	III.	Tools and Test Equipment.....D-6	D-6
APPENDIX	E.	ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL	
		SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST	
SECTION	I.	Introduction.....E-1	E-1
	II.	Repair parts list	
GROUP	06.	ELECTRICAL SYSTEM	
	0607	Electrical distribution panel, XM822.....1	E-8
	0608	Intervehicular cable receptacle and switches, 24-volt .....2	E-10
	0608	Switches, receptacles, circuit breakers, 110/220-volt, XM654 .....3	E-12
	0608	Switches, receptacles, 110/220-volt, XM680, XM680E1 .....4	E-14
	0608	Switches, receptacles, circuit breakers, 110/220-volt XM822 .....5	E-16
	0608	Input power receptacle and timer, XM822 .....6	E-18
	0609	Marker clearance light .....7	E-20
	0609	Blackout stoplight, XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822 (serial no S2669), XM823, XM824 .....8	E-24
	0609	Stoplight, Taillight, XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822 (serial no S2669), XM823, XM824 .....9	E-26
	0609	Composite stoplight-taillight, XM822 (after serial no S2669), XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913 .....10	E-28
	0609	ICC Stoplight, XM654 .....11	E-30
	0609	Dome light, 24-volt (all models except XM912, XM913) .....12	E-32
	0609	Dome light, 110-volt, XM654, XM680, XM680E1, XM822 .....13	E-34
	0609	Blackout dome light, XM822, Blackout t all light, XM680 .....14	E-36
	0609	Fluorescent lighting fixture, XM822.....15	E-38
	0613	Wiring harness, main, XM574, XM574E1, XM680, XM680E1, XM738, XM739, XM739E1, XM823, XM824, wiring harness, roof, XM823, XM824.....16	E-40
	0613	Wiring harness, main, XM822 (after serial no S2669), XM844, XM845, XM847, XM848, XM849, XM850.....17	E-44
	0613	Wiring harness, main, XM654, wiring harness, roof, XM654, XM822 (after serial no S2669).....18	E-46
	0613	Wiring harness, main, wiring harness, roof, XM912, XM913.....19	E-48
	0613	Wiring harness, roof, XM574, XM574E1, XM680, XM680E1, XM738, XM739, XM739E1, XM822 (serial no S2669) .....20	E-50
	0613	Wiring harness, roof, XM844, XM845, XM847, XM848, XM849, XM850 .....21	E-52
	0613	Main dolly harness and interconnecting cable assembly, XM822, XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913.....22	E-54

		Figure	Page
	0613	Wiring harness, dolly taillights and electrical lead assembly, XM822, XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913.....	23 E-56
	0613	Cable assembly, air conditioner, XM680, XM680E1, front wiring harness, XM654 .....	24 E-58
GROUP	11	REAR AXLE	
	1100	Rear axle assembly .....	25 E-60
	1100	Axle and bracket assembly, XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824 .....	26 E-62
GROUP	12	BRAKES	
	1202	Brake shoe and related parts .....	27 E-64
	1202	Service brake attaching parts .....	28 E-66
	1202	Backing plate assembly .....	29 E-68
	1204	Hydraulic brake system .....	30 E-70
	1204	Hydraulic master cylinder .....	31 E-72
	1204	Wheel cylinder and hydraulic tubes .....	32 E-74
	1208	Brake air system, XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824 .....	33 E-76
	1208	Brake and air suspension air lines, XM844, XM845, XM847, XM848 XM849, XM850 .....	34 E-80
	1208	Brake and air suspension air lines, XM912, XM913 .....	35 E-82
	1208	Brake air chamber .....	36 E-84
	1208	Relay valve .....	37 E-86
	1208	Air mounted kingpin air lines, XM847, XM848, XM849, XM850 .....	38 E-88
	1208	Air mounted kingpin air lines, XM912, XM913 .....	39 E-90
GROUP	13	WHEELS	
	1311	Wheel assembly .....	40 E-92
	1313	Tire and tube .....	41 E-94
GROUP	15	FRAME AND TOWING ATTACHMENTS	
	1503	Pintle and towing attachments .....	42 E-96
	1504	Spare wheel carrier .....	43 E-98
	1506	Air mounted fifth wheel kingpin assembly, XM847, XM848, XM849, XM850, XM912, XM913 .....	44 E-100
	1506	Resilient kingpin, XM844, XM845 .....	45 E-102
	1507	Leveling jack .....	46 E-104
	1507	Leveling Jack, center, XM738, XM739, XM739E1 .....	47 E-106
	1507	Landing gear (all models except XM847, XM848, XM849, XM850, XM912, XM913) .....	48 E-108
	1507	Swing-up landing gear, XM847, XM848, XM849, XM850, XM912, XM913 .....	49 E-112
GROUP	16	SPRINGS AND SHOCK ABSORBERS	
	1601	Tandem suspension, XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824 .....	50 E-114
	1601	Air suspension system components, XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913 .....	51 E-118
	1601	Air spring air control assembly, XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913 .....	52 E-120
GROUP	18	BODY	
	1801	Interior doors, XM654, XM822 .....	53 E-122
	1801	Side door and rear door, XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913 .....	54 E-124
	1801	Rear door, XM574, XM574E1, XM654, XM739, XM739E1 .....	55 E-130
	1801	Right side door, XM654, XM680, XM680E1, Right rear door, XM739 .....	56 E-132
	1801	Left side door, XM680, XM680E1 .....	57 E-136
	1801	Rear door, XM738, XM823, XM824, Side door, XM739, XM739E1, XM822 .....	58 E-138
	1801	Side door and right rear door, XM738, XM739E1, XM823, XM824 .....	59 E-142
	1801	Right side door and right rear door, XM574, XM574E1 .....	60 E-146
	1801	Rear doors, XM680, XM680E1 .....	61 E-150
	1801	Front doors, XM680, XM680E1 .....	62 E-154
	1801	Front door, XM822 .....	63 E-158
	1801	Rear door and right side door, XM822 .....	64 E-162
	1801	Miscellaneous body parts .....	65 E-166
	1801	Miscellaneous body parts .....	66 E-170
	1812	Heat exchanger opening assembly, XM680, and fresh air opening assembly, XM680, XM680E1 .....	67 E-174

		Figure	Page
	1812 Access openings, XM654 .....	68	E-178
	1812 Discharge assembly, blower exhaust, XM822 .....	69	E-182
	1812 Propane vent outlet, knock engine condenser frame, XM822 .....	70	E-184
	1812 Exhaust outlet assembly, knock engine breather assembly, XM822 .....	71	E-186
GROUP	22 BODY ACCESSORY ITEMS		
	2202 Level assembly and reflector .....	72	E-190
	2210 Name and data plate .....	73	E-192
	2210 Name and data plate .....	74	E-194
	2210 Name and data plate .....	75	E-196
	2210 Name and data plate .....	76	E-198
	2210 Name and data plate .....	77	E-200
	2210 Name and data plate .....	78	E-202
	2210 Instruction plate .....	79	E-204
	2210 Instruction plate .....	80	E-206
GROUP	52 AIR CONDITIONING COMPONENTS		
	5200 Air conditioner, XM654 .....	81	E-208
	5200 Air conditioner, XM680, XM680E1 .....	82	E-210
	5200 Air conditioner, XM822 .....	83	E-212
	5247 Heater system, XM822 .....	84	E-214
	5247 Heater thermostat, XM822 .....	85	E-216
GROUP	64 VENTILATING FANS AND BLOWERS		
	6402 Blower installation, XM654 .....	86	E-218
GROUP	9905 BULK MATERIAL		
SECTION	III. Special tools list		
GROUP	31. TOOLS		
	3101 Special tools .....	87	
	IV. National stock number and part number index .....		E-227
APPENDIX	F. EXPENDABLE SUPPLIES AND MATERIALS LIST	Paragraph	
SECTION	I. Introduction .....	F-1	F-1
	II. Expendable supplies and materials list .....		F-2
APPENDIX	G. ILLUSTRATED LIST OF MANUFACTURED ITEMS .....	G-1	G-1
ALPHABETICAL INDEX	.....		I-1

## CHAPTER 1 INTRODUCTION

### Section I. GENERAL

#### 1-1. Scope

This manual is for your use in operating and maintaining the Semitrailer, Van: Electronic, 10-ton, 2-wheel, XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824, XM844, XM845, XM847, XM848, XM849, XM850, XM912, and XM913.

#### 1-2. Maintenance Forms and Records

Maintenance forms and records that you are required to use are explained in TM 38-750.

#### 1-3. Destruction of Army Materiel to Prevent Enemy Use

For destruction of army materiel to prevent enemy use, refer to TM 750-244-6.

#### 1-4. Administrative Storage

For information on administrative storage, refer to TM740-90-1.

#### 1-5. Quality Assurance/Quality Control

For quality assurance/quality control procedures, refer to TM 750-245-4.

#### 1-6. Reporting Equipment Improvement Recommendations (EIRs)

If your electronic van needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design. Put it on an SF368 (Quality Deficiency Report). Mail it to us at: US Army Tank Automotive Command, ATTN: DRSTA-MP, Warren, MI 48090. We'll send you a reply.

### Section II. DESCRIPTION AND DATA

#### 1-7. Description (figs. 1-1 through 1-35)

a. The semitrailer vans covered in this manual are designed to house and transport electronic equipment on either highway or cross country using the M52, M52A1, M52A2 or M818 truck tractor as the towing vehicle.

b. The following semitrailers are designed to perform the following specific functions:

(1) The XM574 and XM574E1 semitrailers house and transport general purpose electronic equipment.

(2) The XM654 semitrailer houses and transports telemetry equipment.

(3) The XM680 and XM680E1 semitrailers house and transport electronic equipment.

(4) The XM738 semitrailer houses and transports telephone equipment.

(5) The XM739 and XM739E1 semitrailers house and transport switchboard equipment.

(6) The XM822 semitrailer houses and transports a petroleum testing laboratory.

(7) The XM823 semitrailer houses and transports teletype equipment.

(8) The XM824 semitrailer houses and transports cryptographic equipment.

(9) The XM844 semitrailer houses and transports on-line electronic equipment.

(10) The XM845 semitrailer houses and transports off-line electronic equipment.

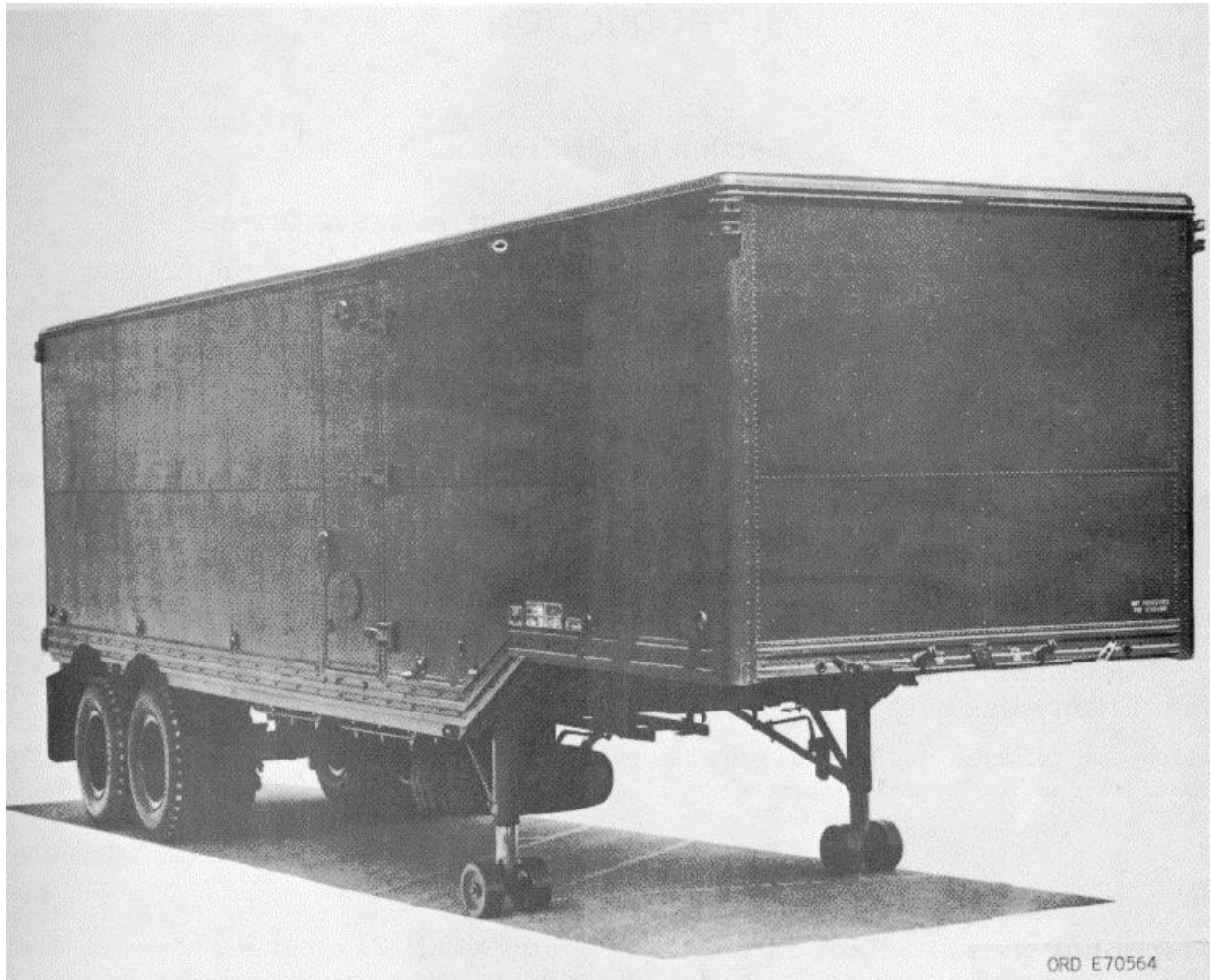
(11) The XM847 semitrailer houses and transports digital terminal No. 1 equipment.

(12) The XM848 semitrailer houses and transports digital terminal No. 2 equipment.

(13) The XM849 semitrailer houses and transports secure voice-electronic equipment.

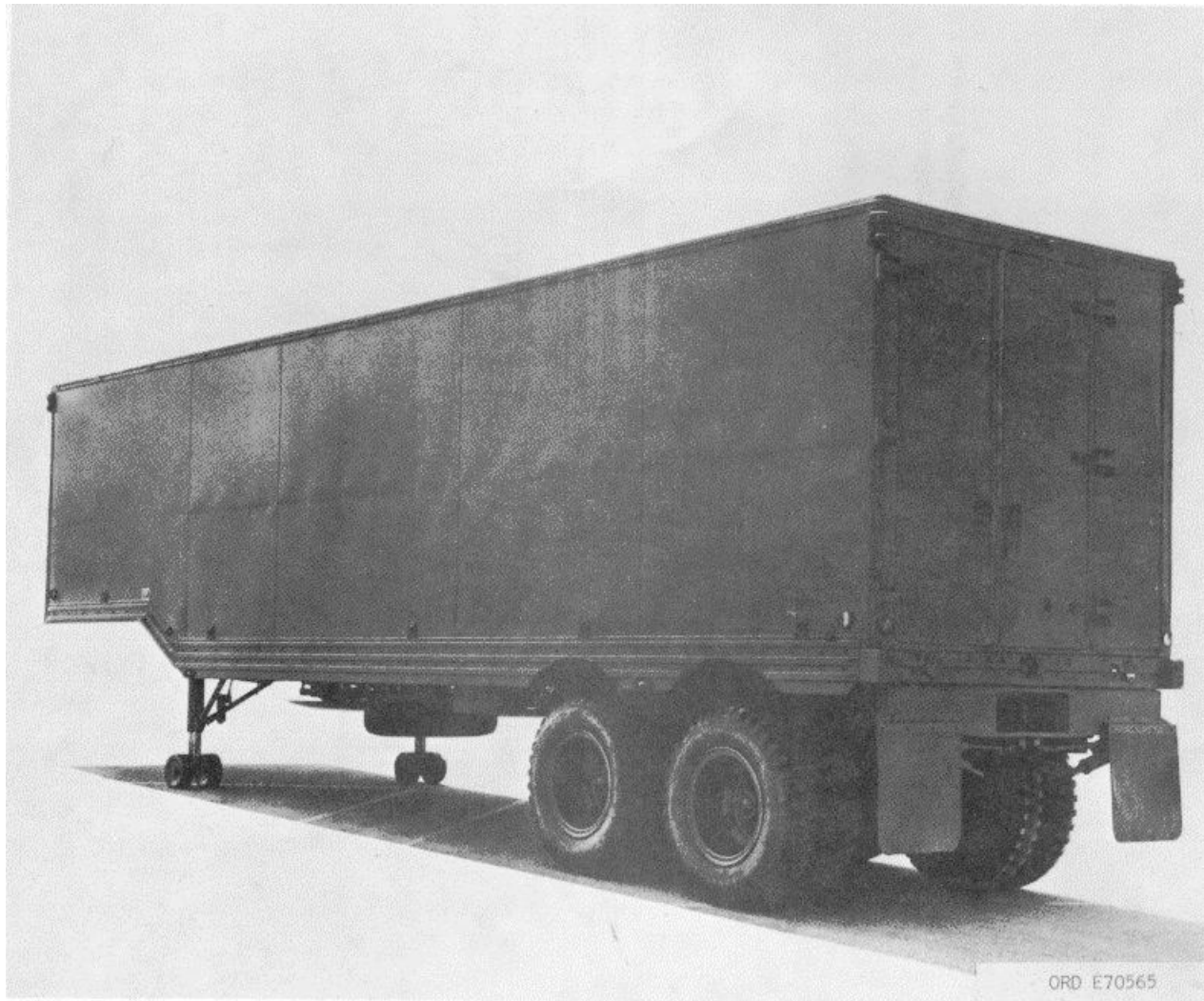
(14) The XM850 semitrailer houses and transports voice switch equipment.

(15) The XM912 and XM913 semitrailers house and transport computer equipment.

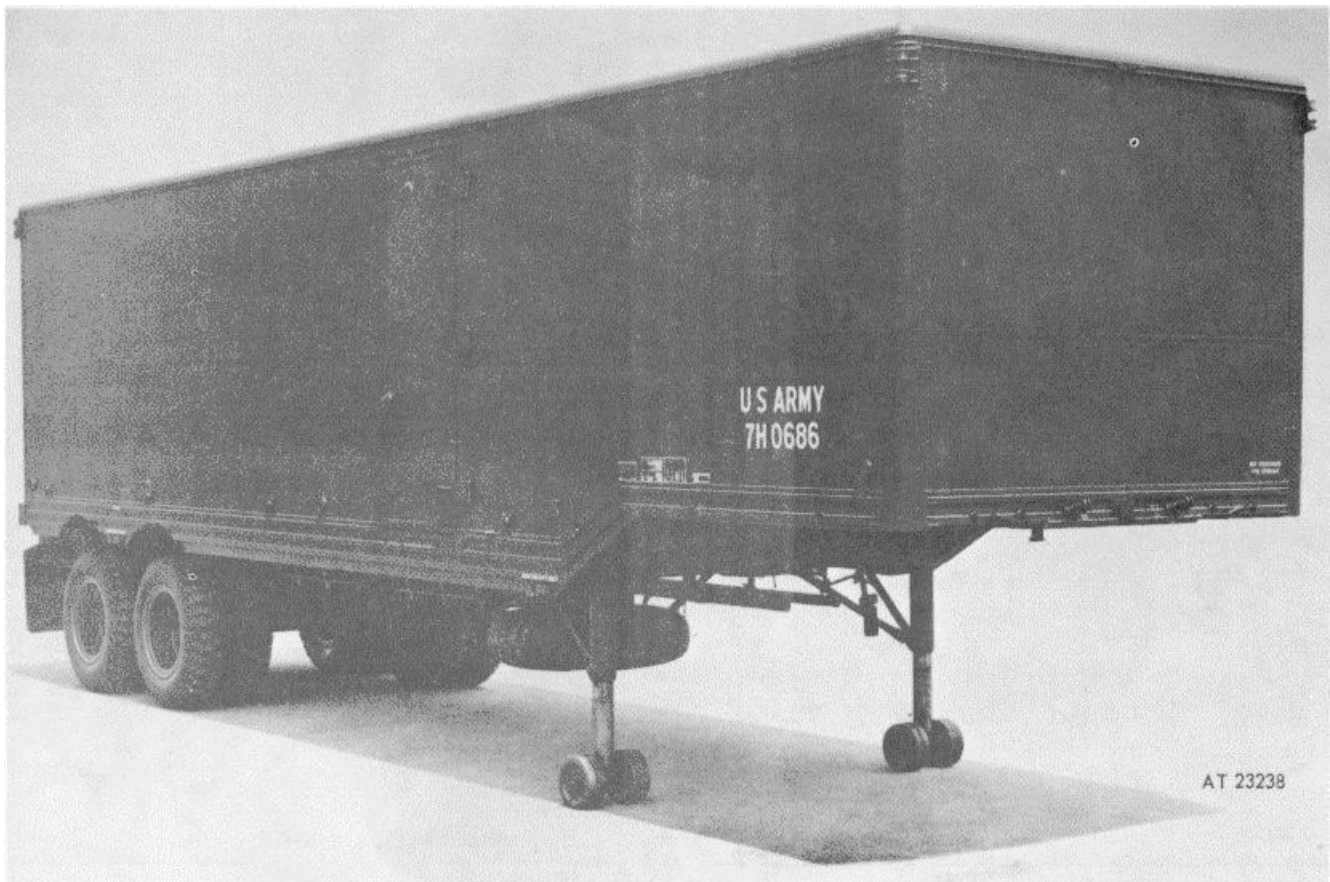


*Figure 1-1. Semitrailer, van: electronic, XM574-right front view.*

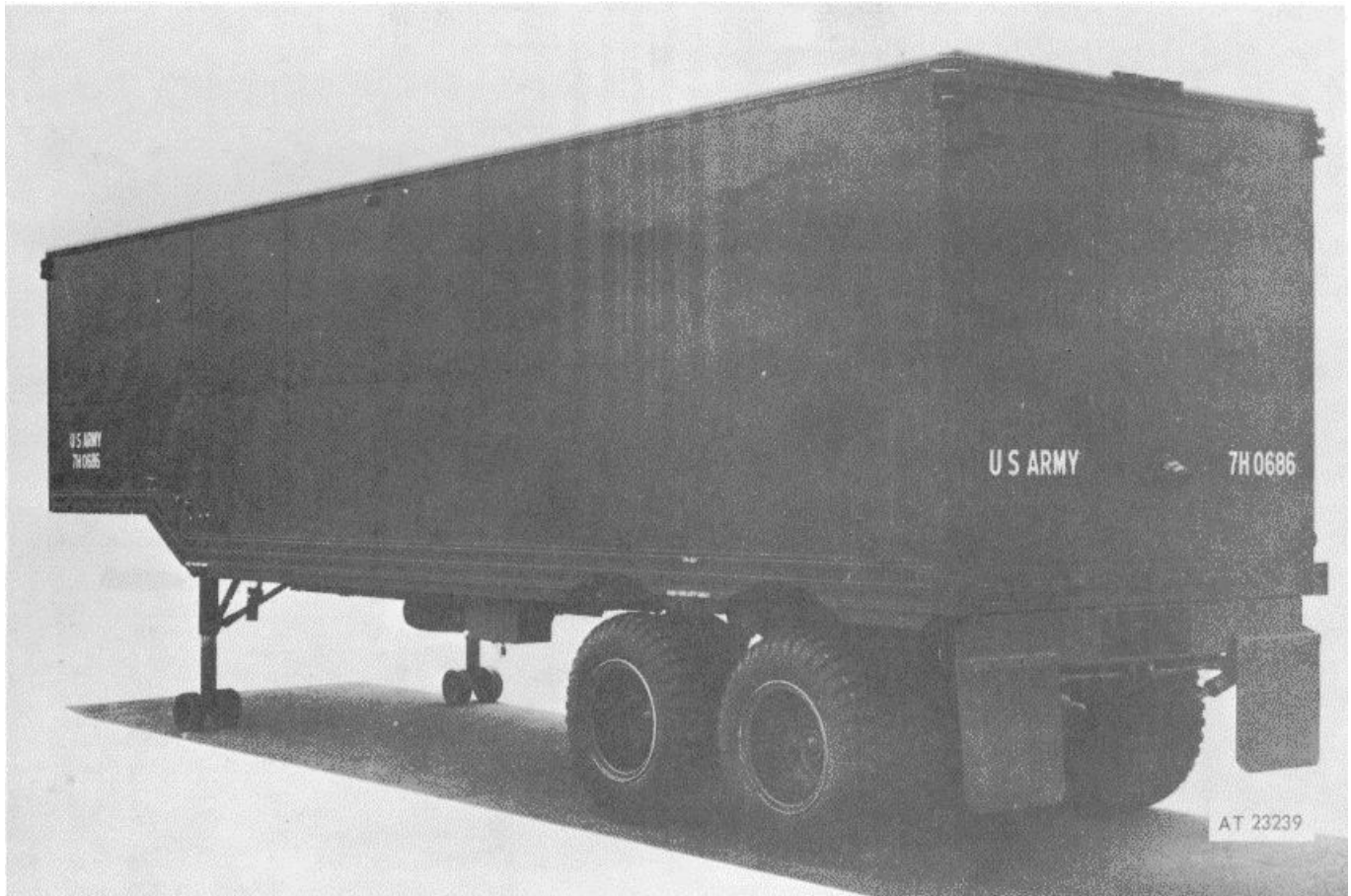




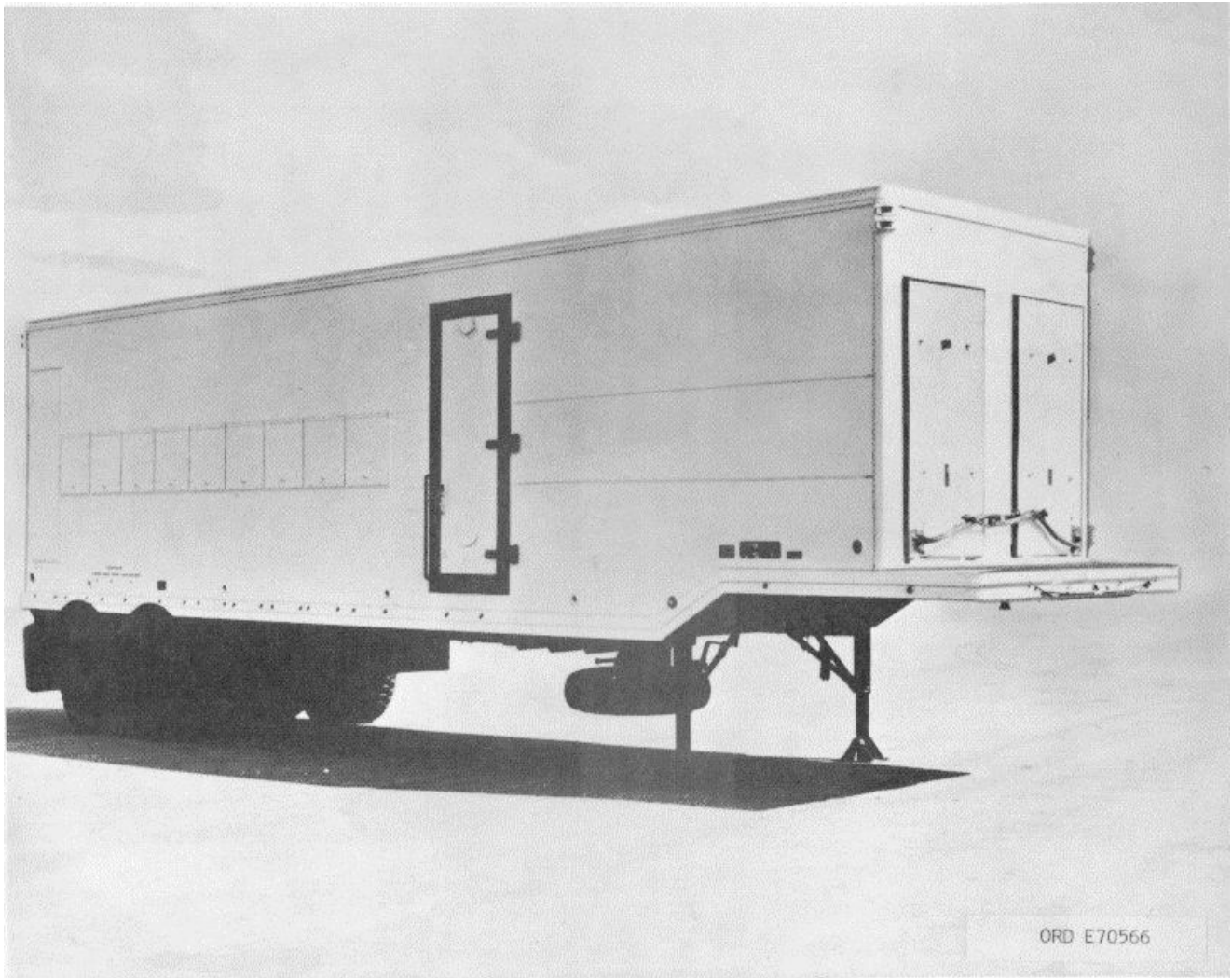
*Figure 1-2. Semitrailer, van electronic, XM574-left rear view*



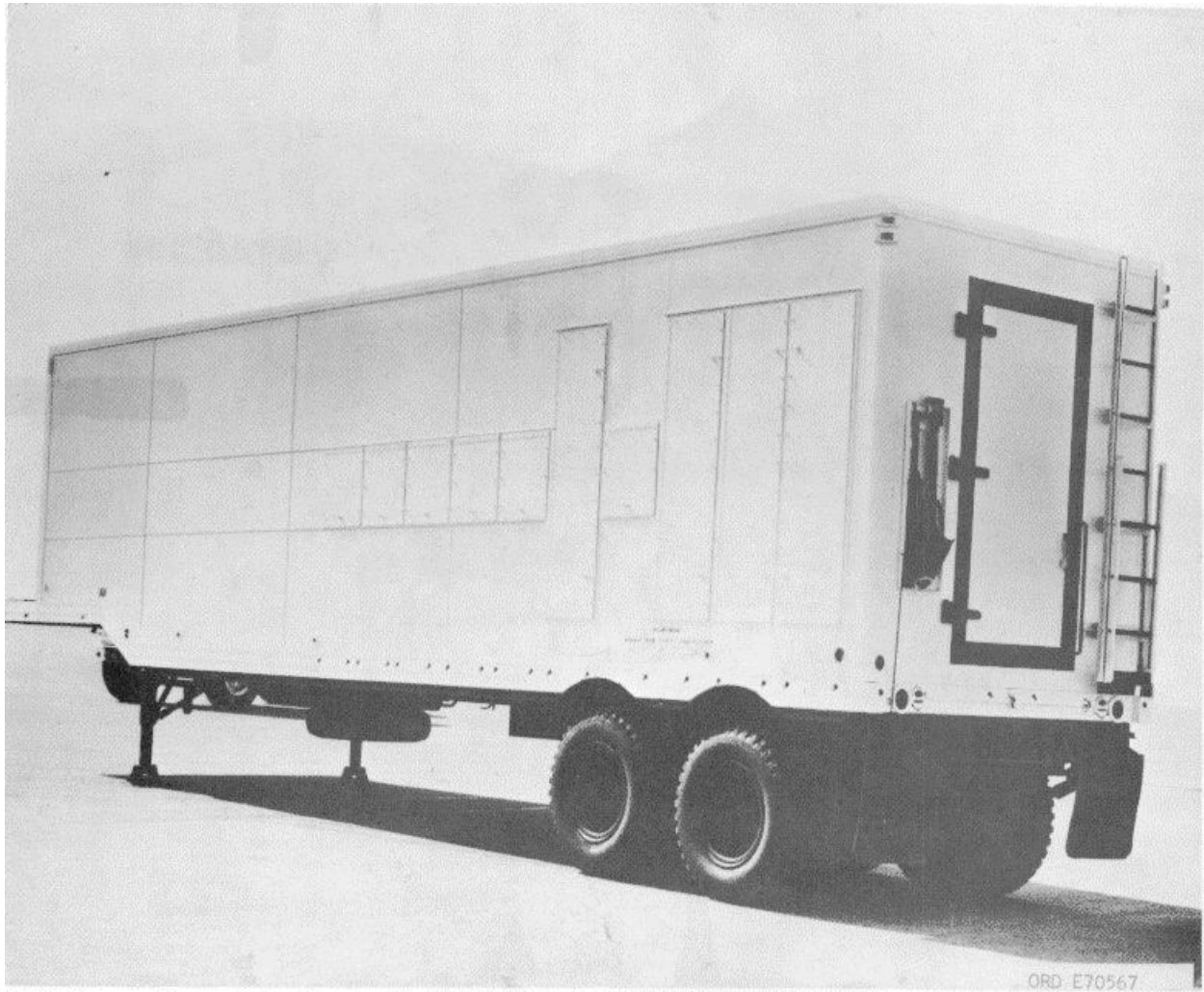
*Figure 1-3. Semitrailer. than electronic, XM574E-1-right front view.*



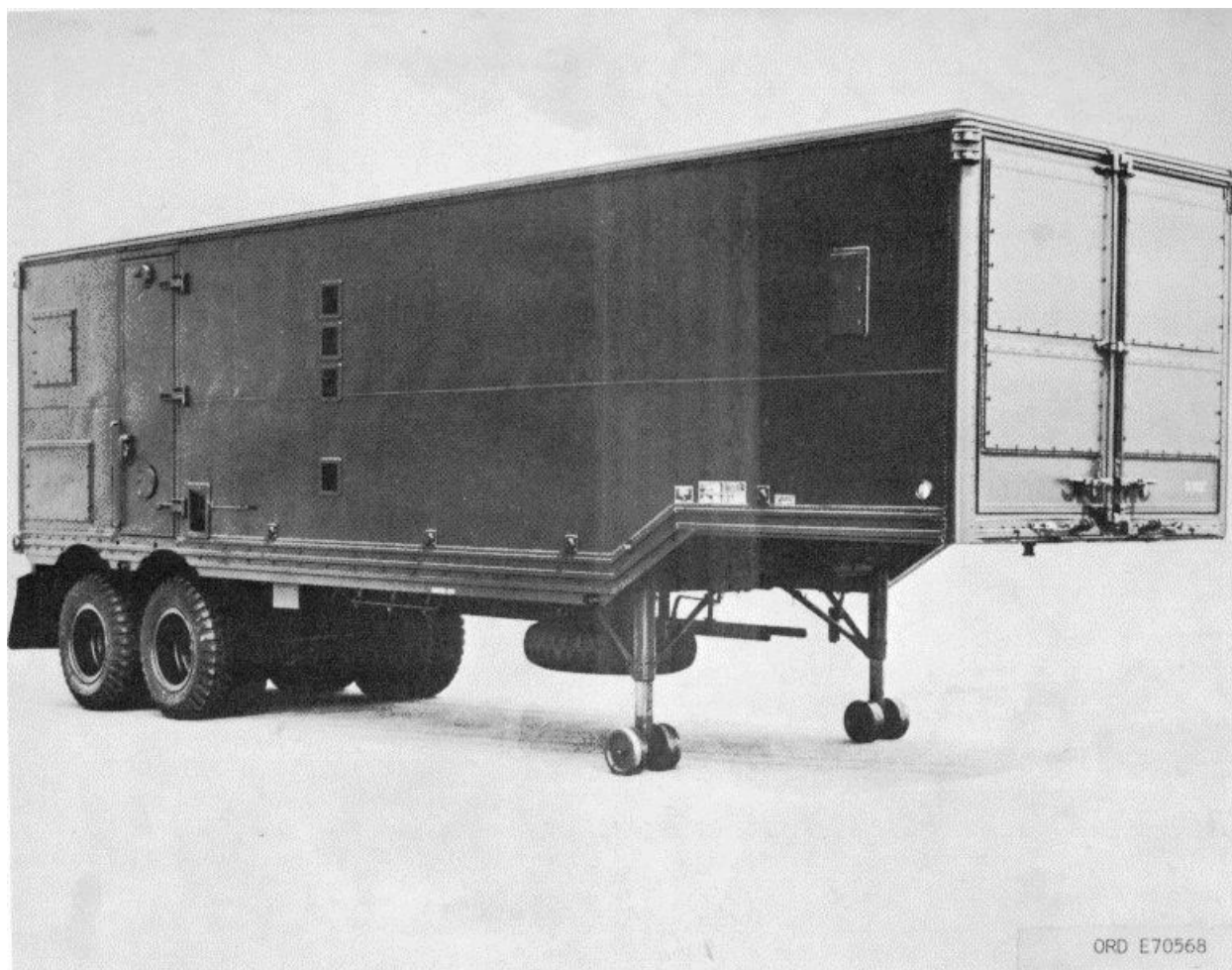
*Figure 1-4. Semitrailer, van electronic, XM574E1-left rear view*



*Figure 1-5. Semitrailer, van: electronic, XM654-right front view.*

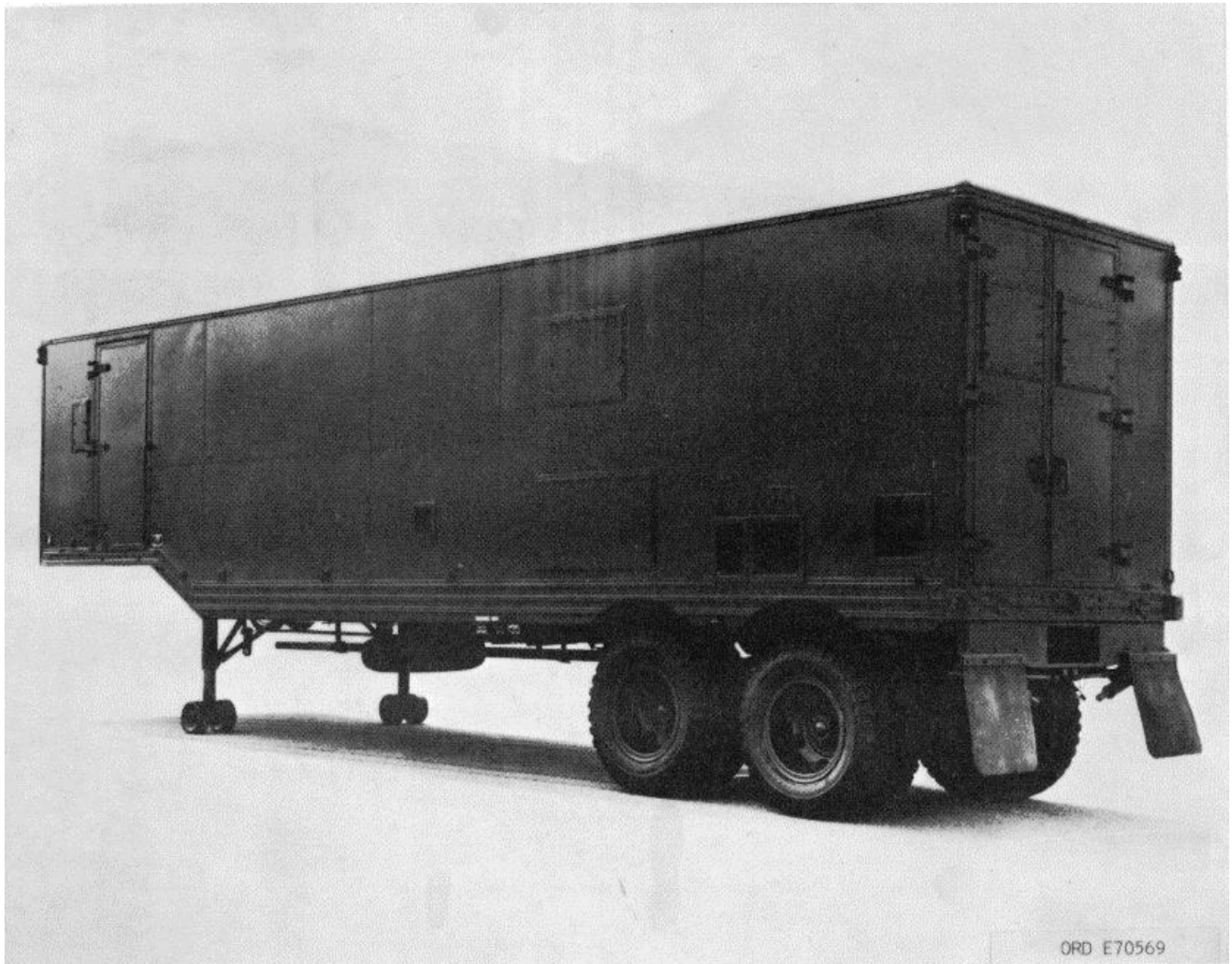


*Figure 1-6. Semitrailer, van electronic, XM654-left rear view*



*Figure 1-7. Semitrailer, van: electronic, XM680-right front view.*



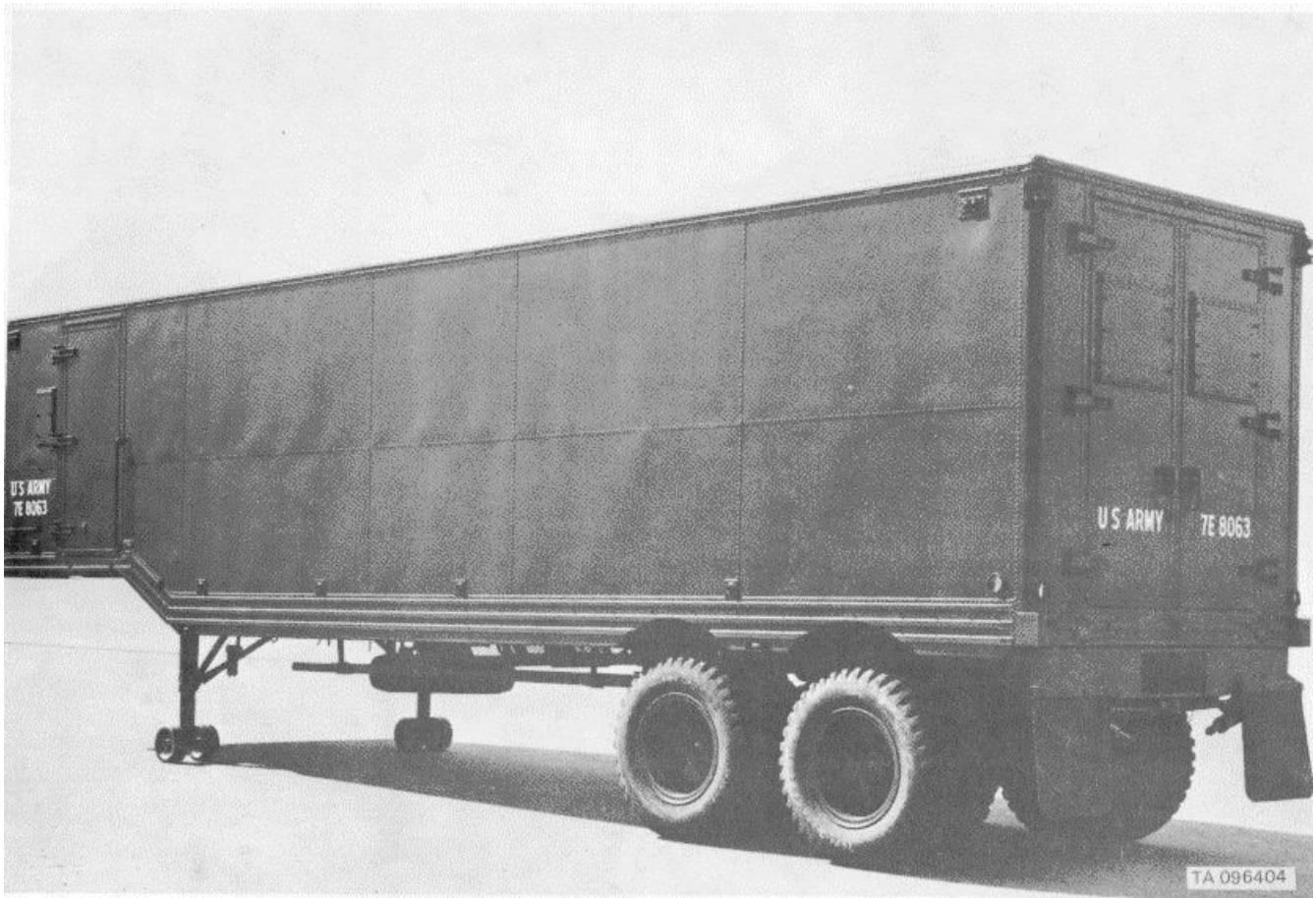


*Figure 1-8. Semitrailer, van electronic, XM680-left rear view.*

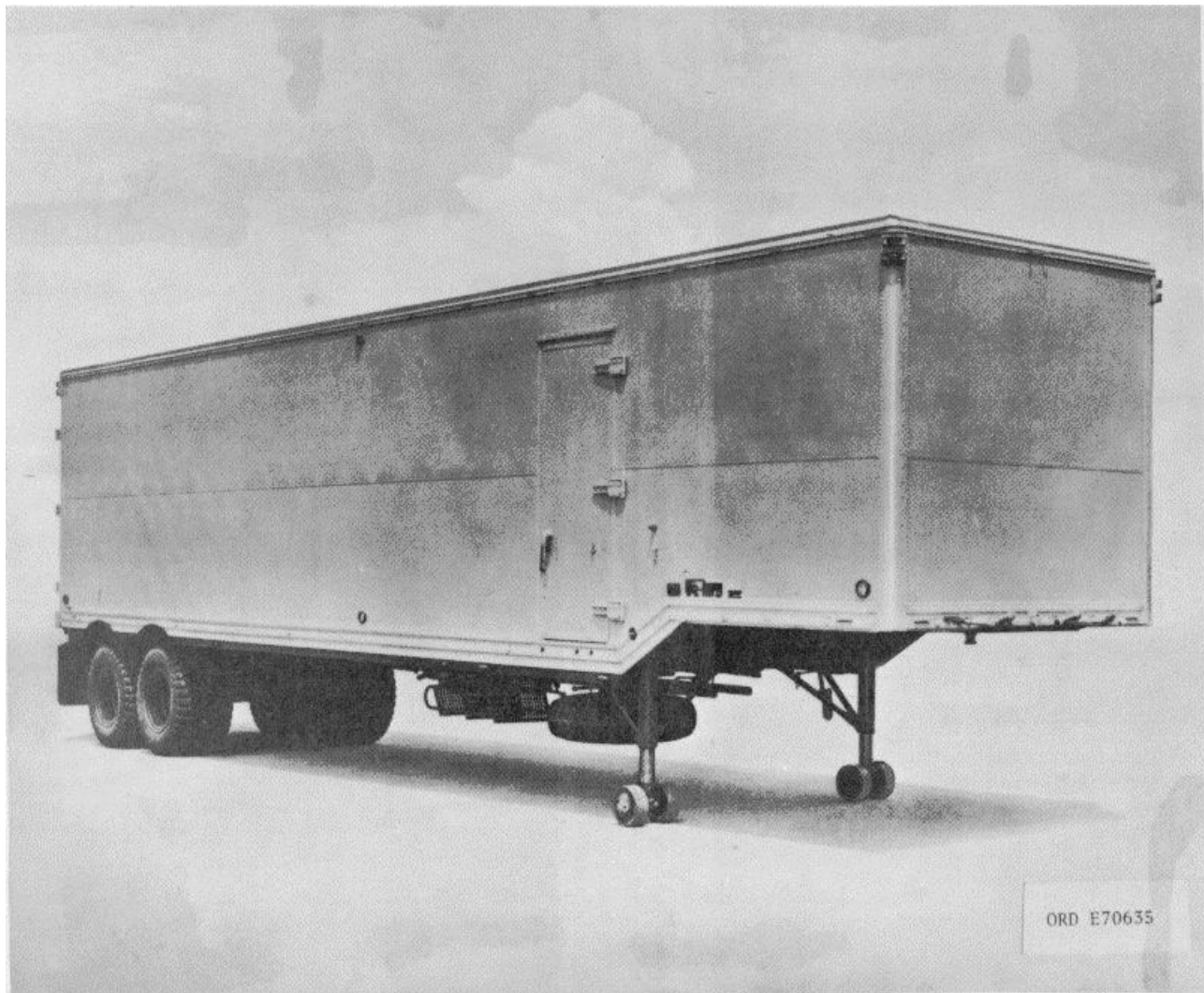


*Figure 1-9. Semitrailer, van electronic, XM680E1-right front view.*

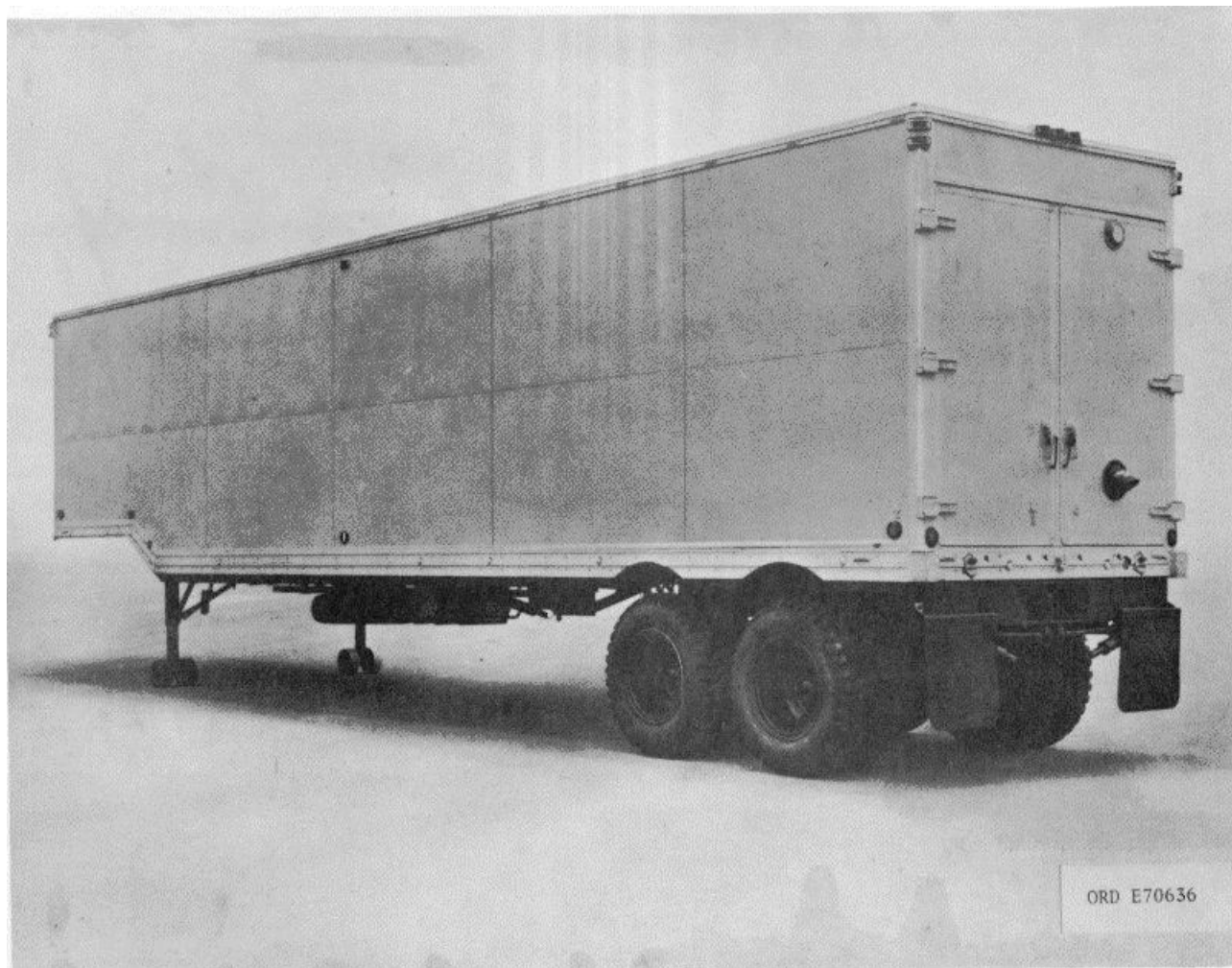




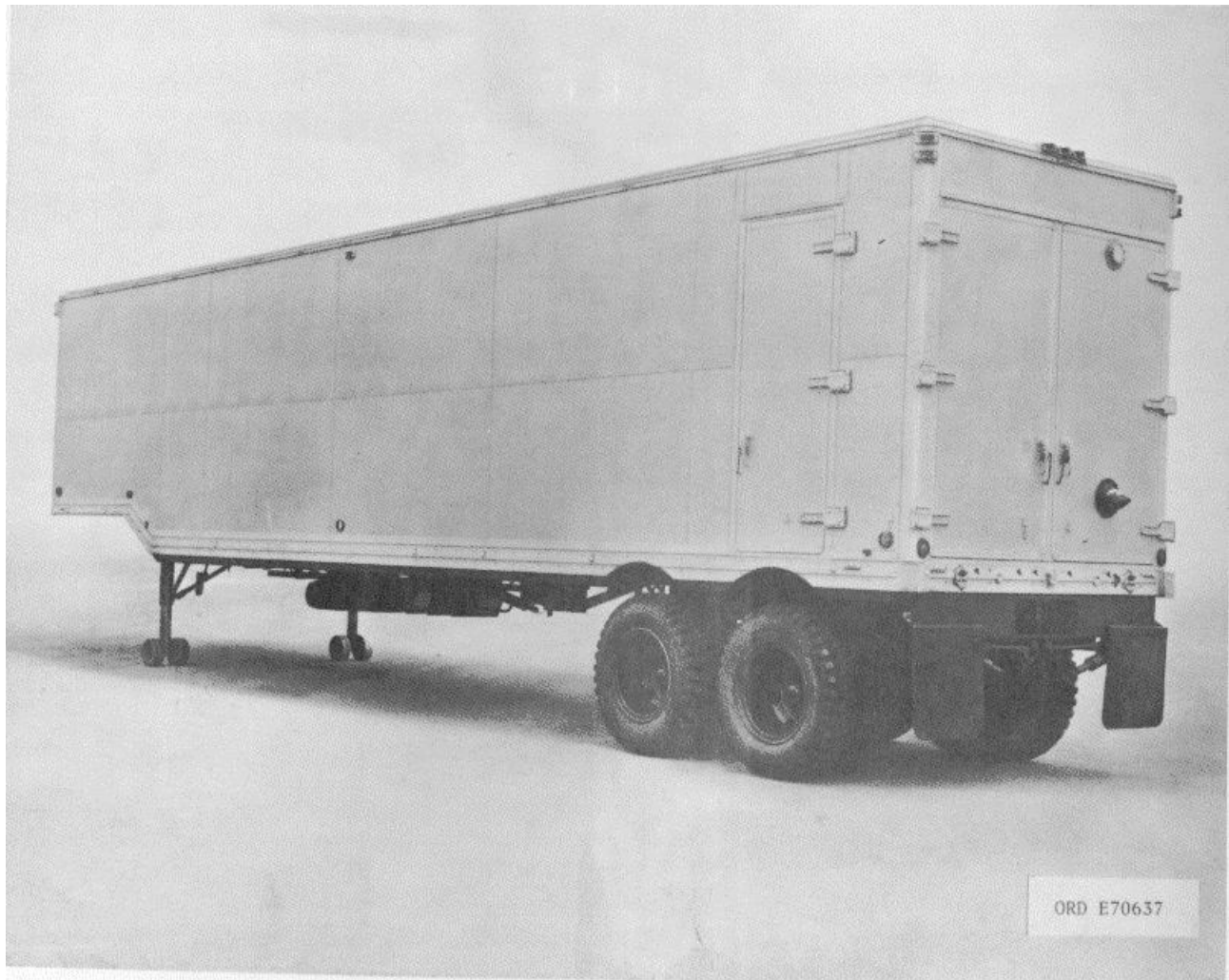
*Figure 1-10. Semitrailer, van electronic, XM680E1-left rear view.*



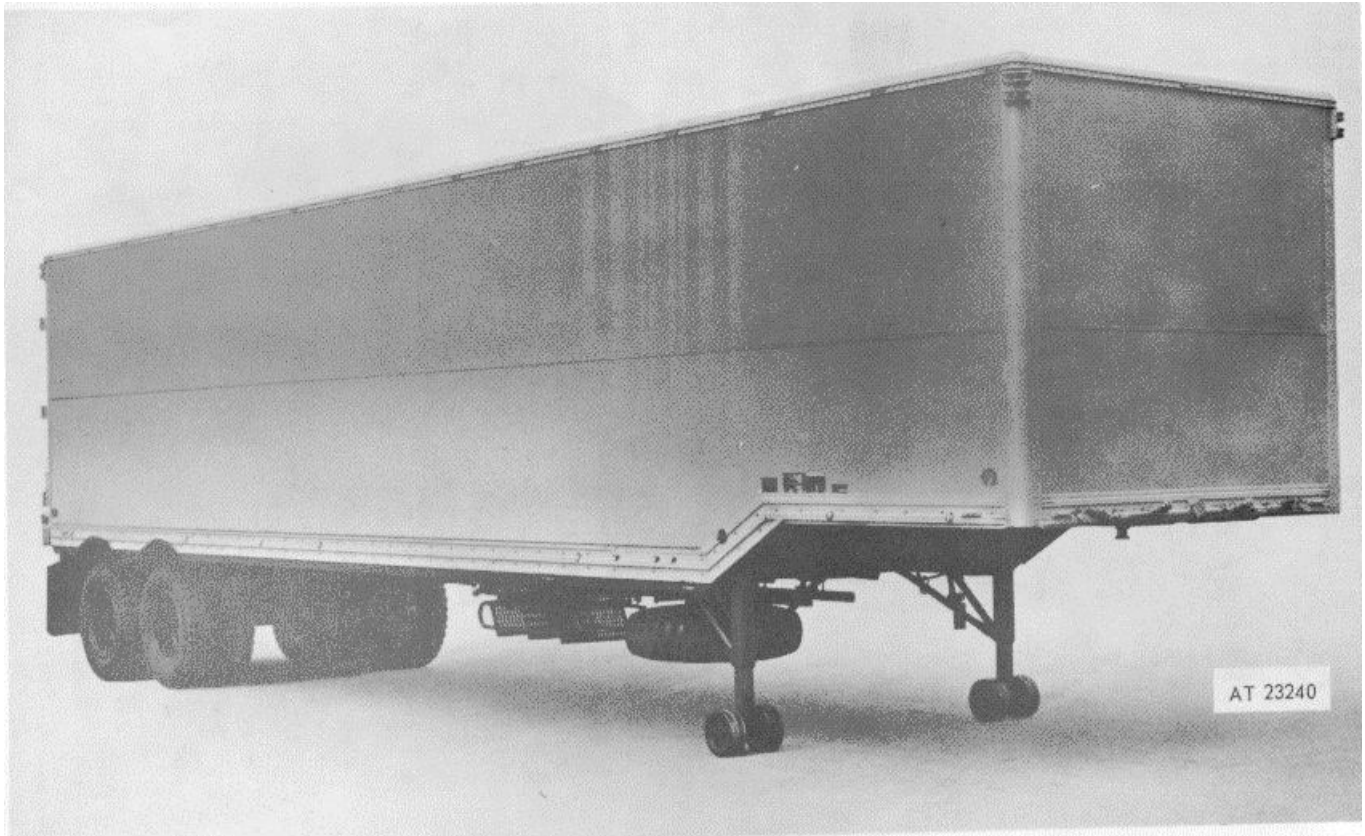
*Figure 1-11. Semitrailer, van electronic, XM738, XM739-right front view.*



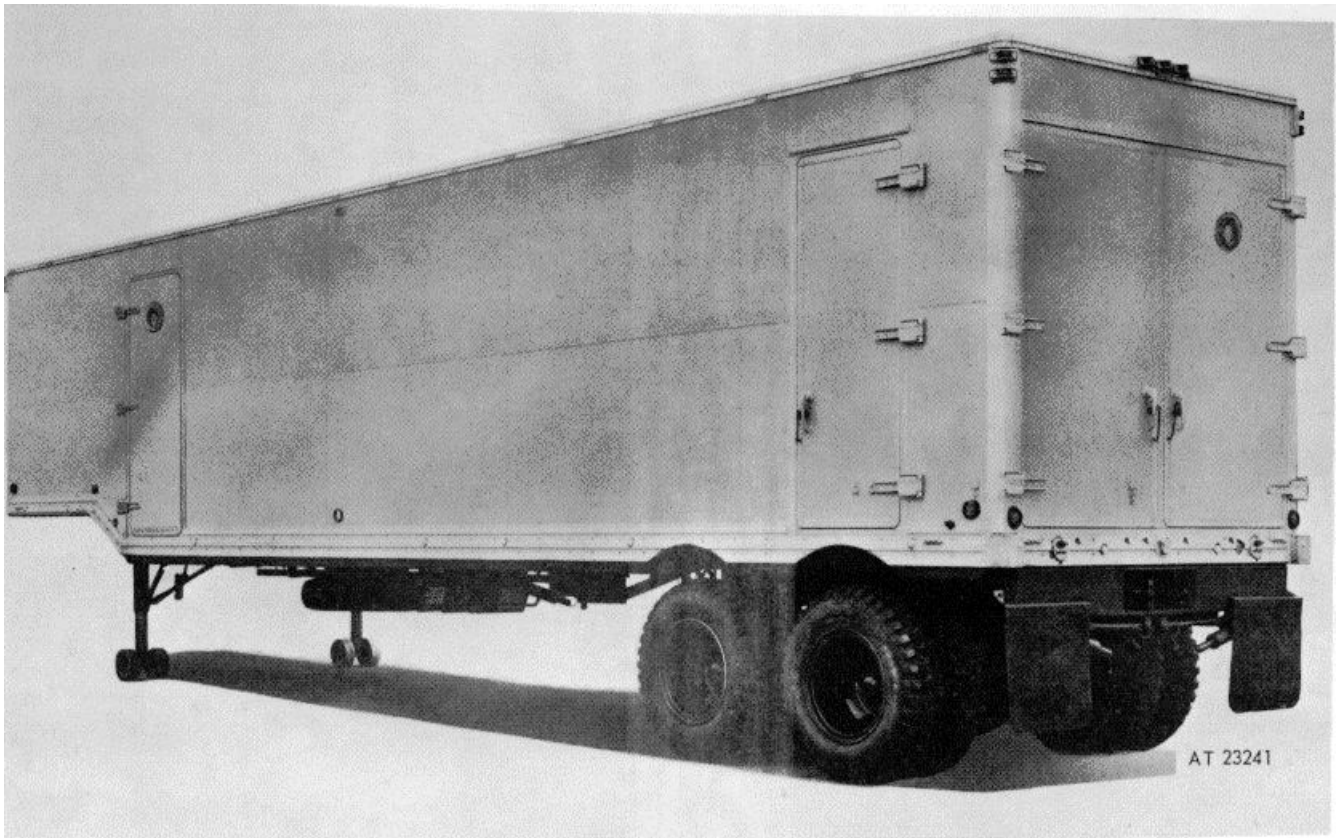
*Figure 1-12. Semitrailer, van electronic, XM738-left rear view*



*Figure 1-13. Semitrailer, van electronic, XM739-left rear view*



*Figure 1-14. Semitrailer, van switchboard, XM739E1-rightfront view*

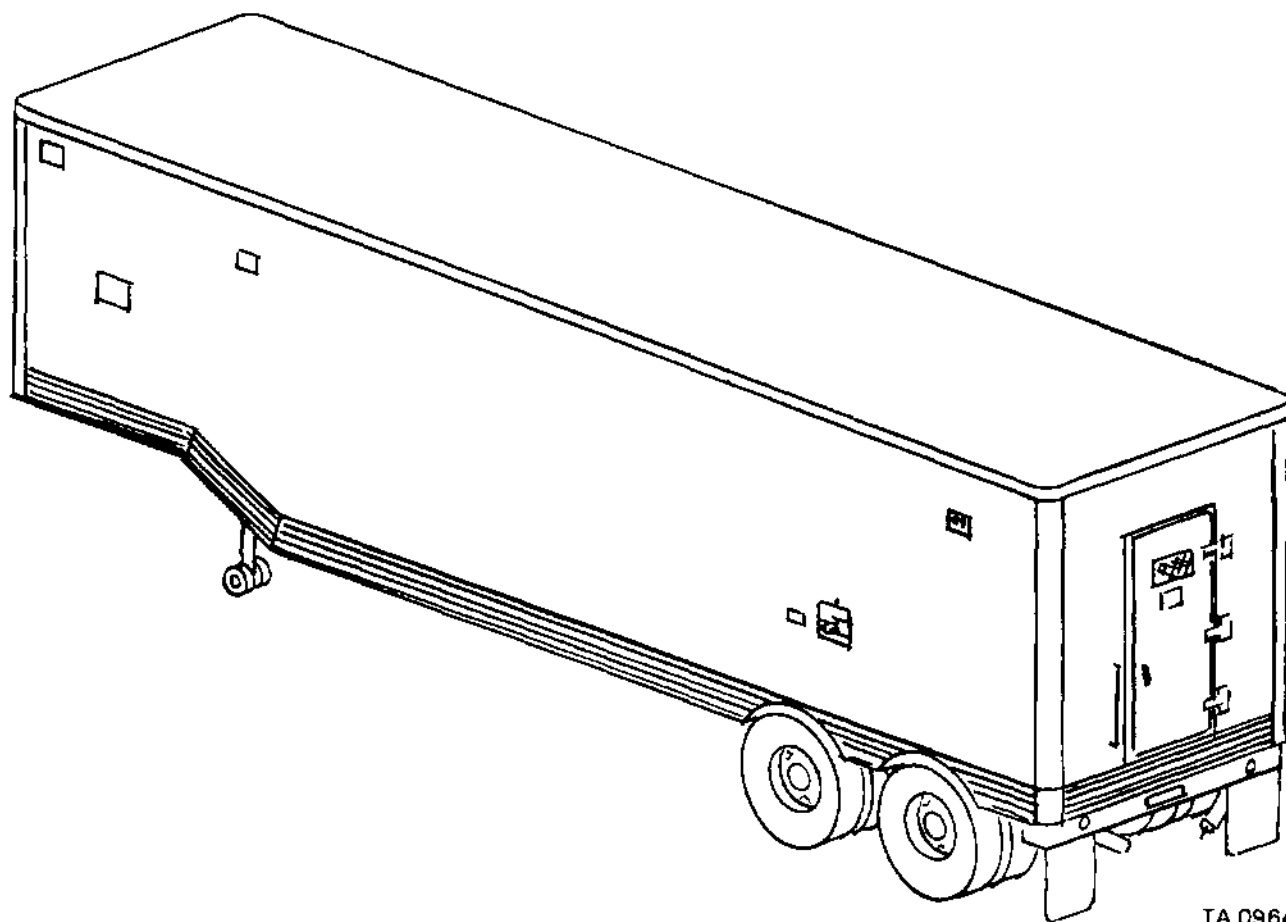


*Figure 1-15. Semitrailer, van switchboard, XM739E1-left rear view*





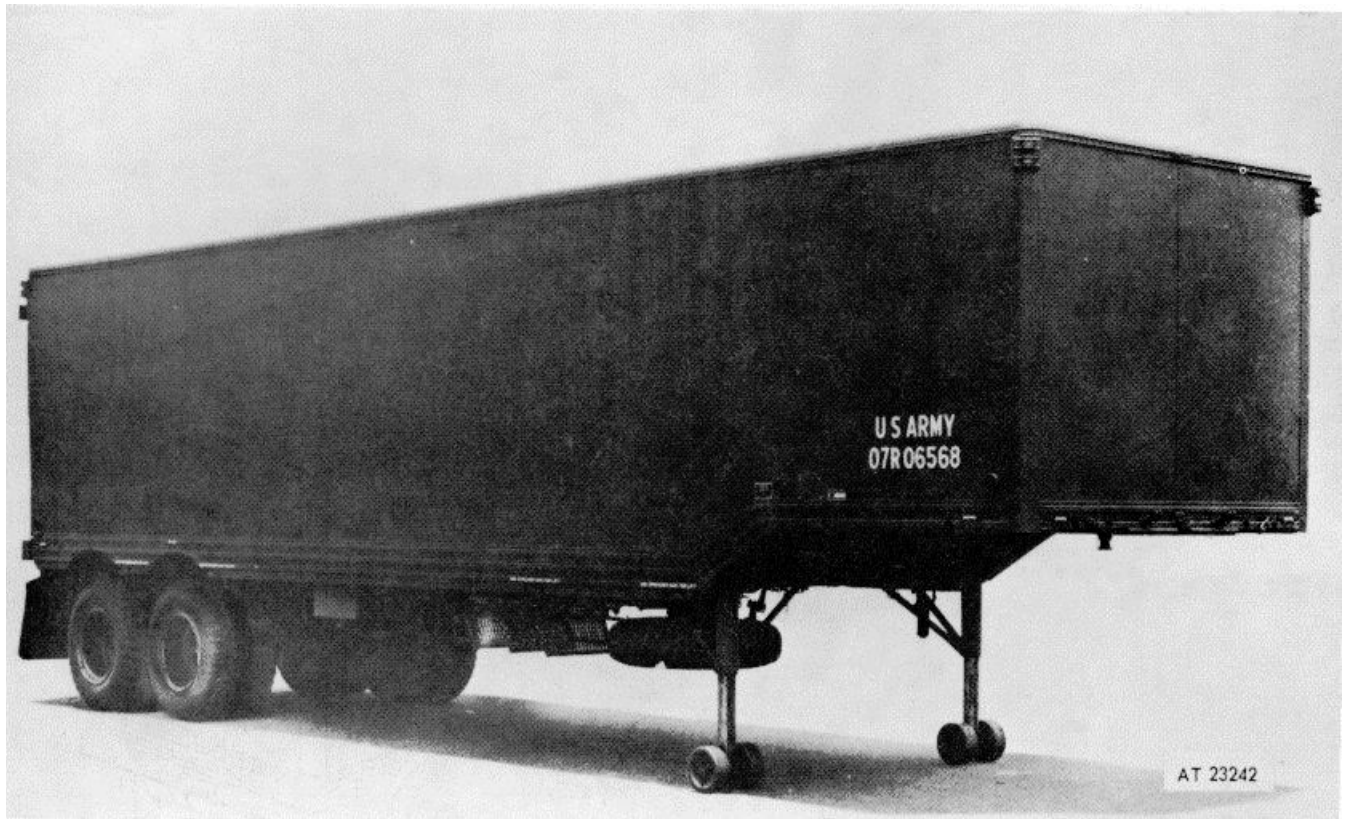
Figure 1-16. Semitrailer, van petroleum testing laboratory, XM822-rightfront view



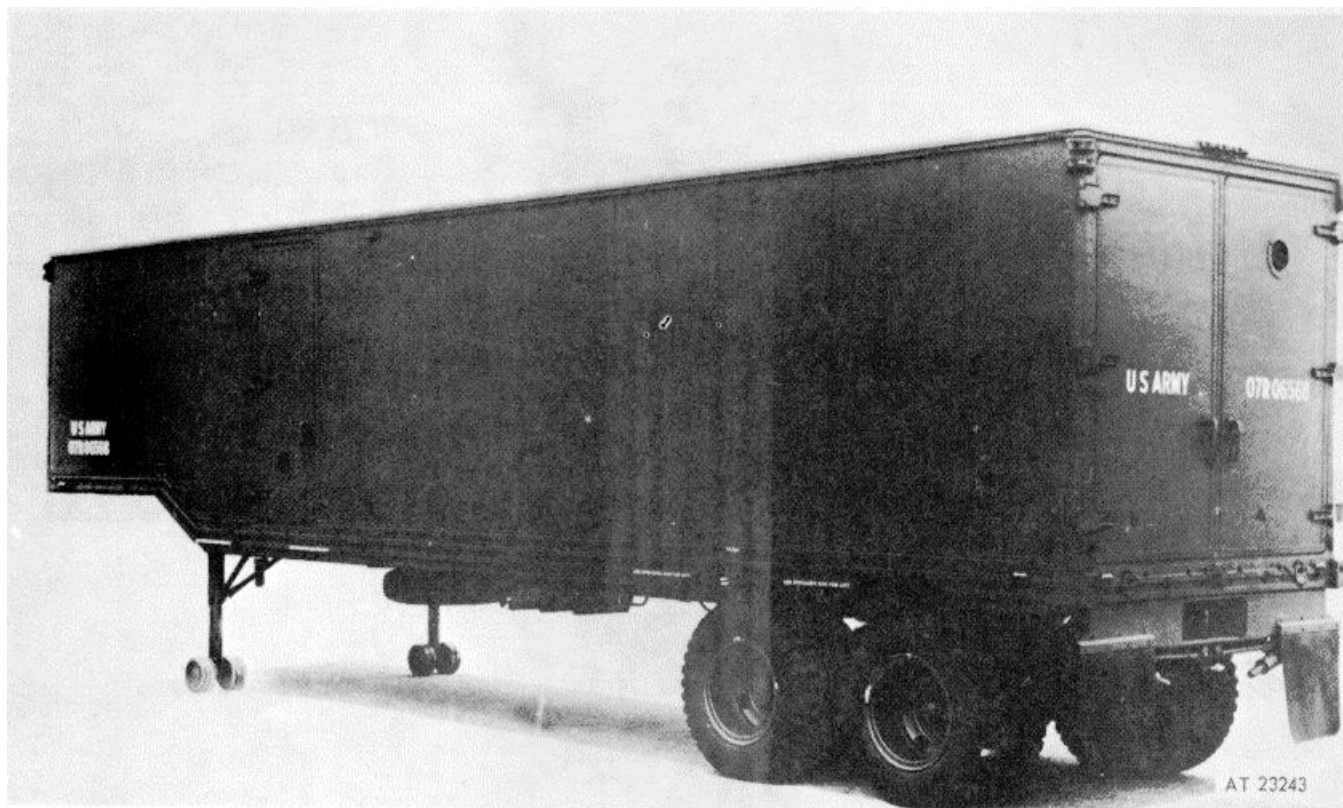
TA 096414

*Figure 1-17. Semitrailer, van petroleum testing laboratory, XM822-left rear view*

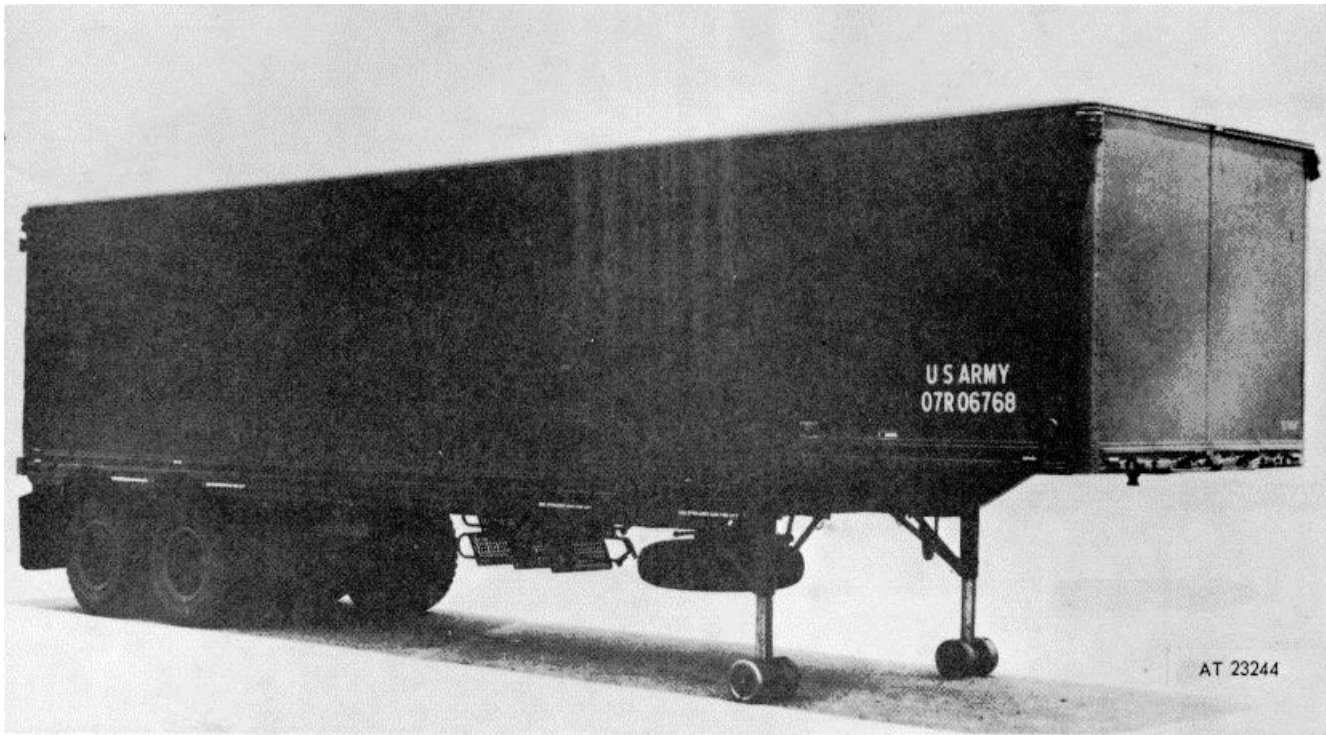




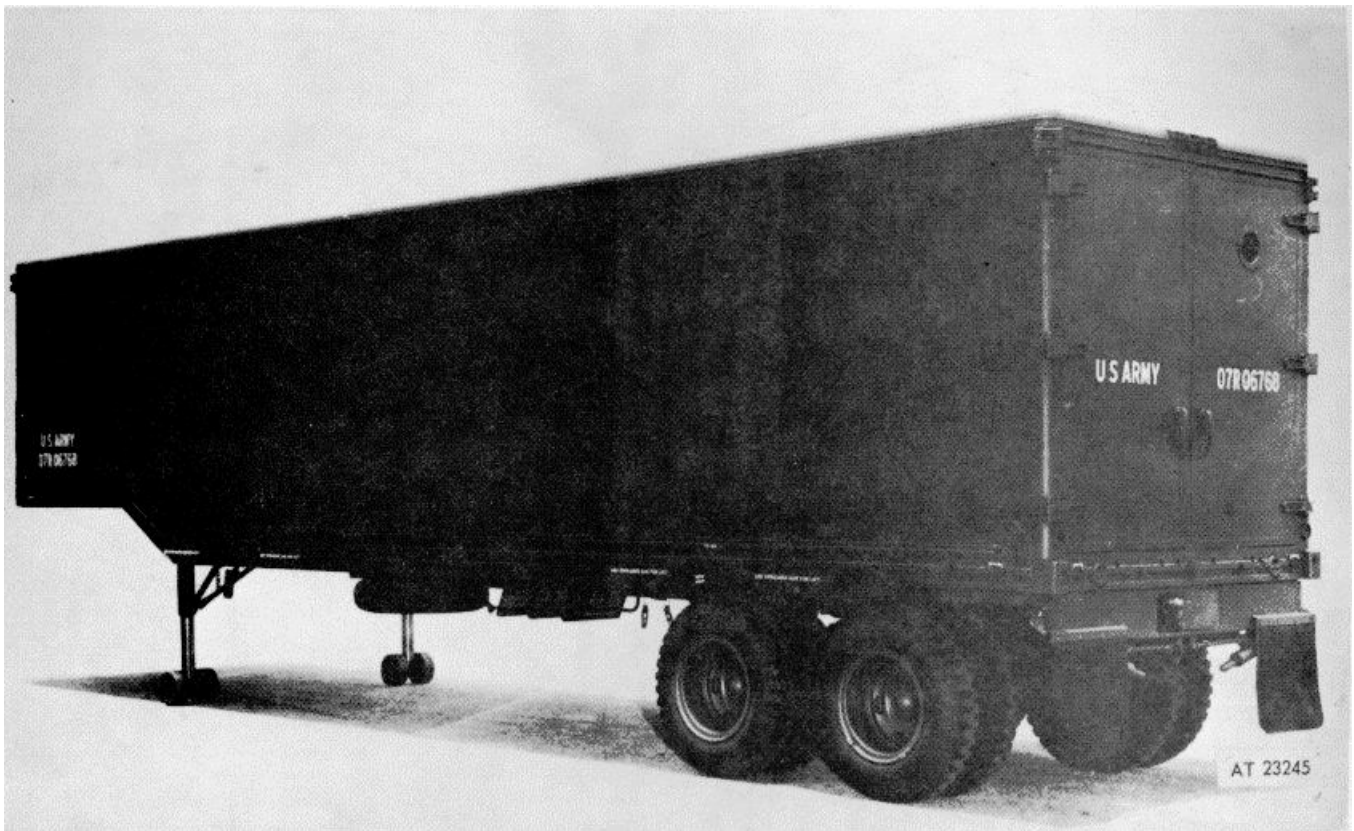
*Figure 1-18. Semitrailer, van teletype, XM823-rightfront view*



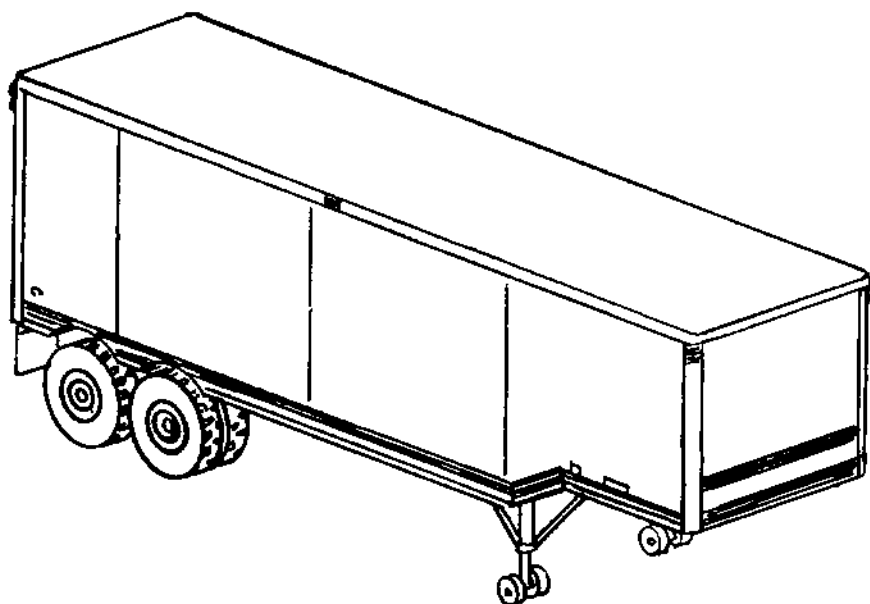
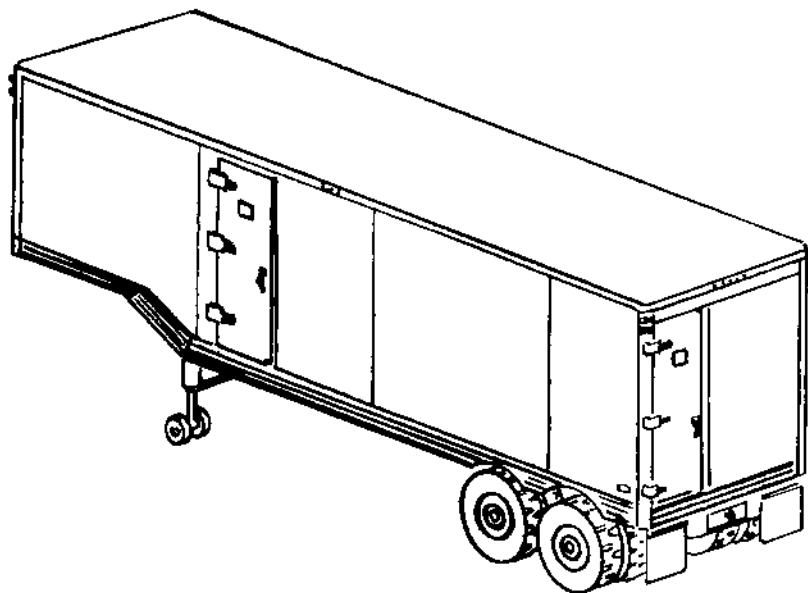
*Figure 1-19. Semitrailer, van teletype, XM823-left rear view*



*Figure 1-20. Semitrailer, van crypto, XM824-right front view*

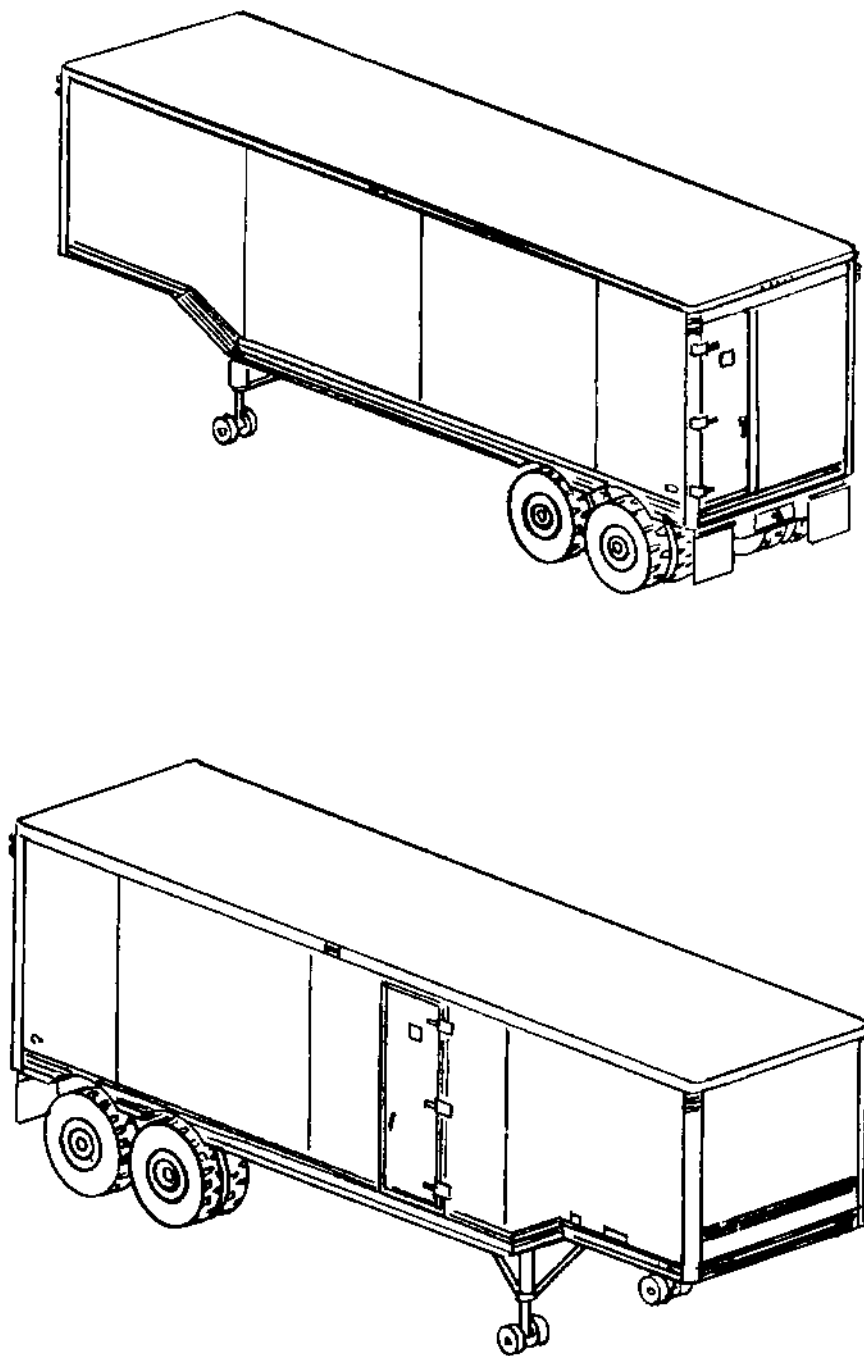


*Figure 1-21. Semitrailer, van crypto, XM824-left rear view*



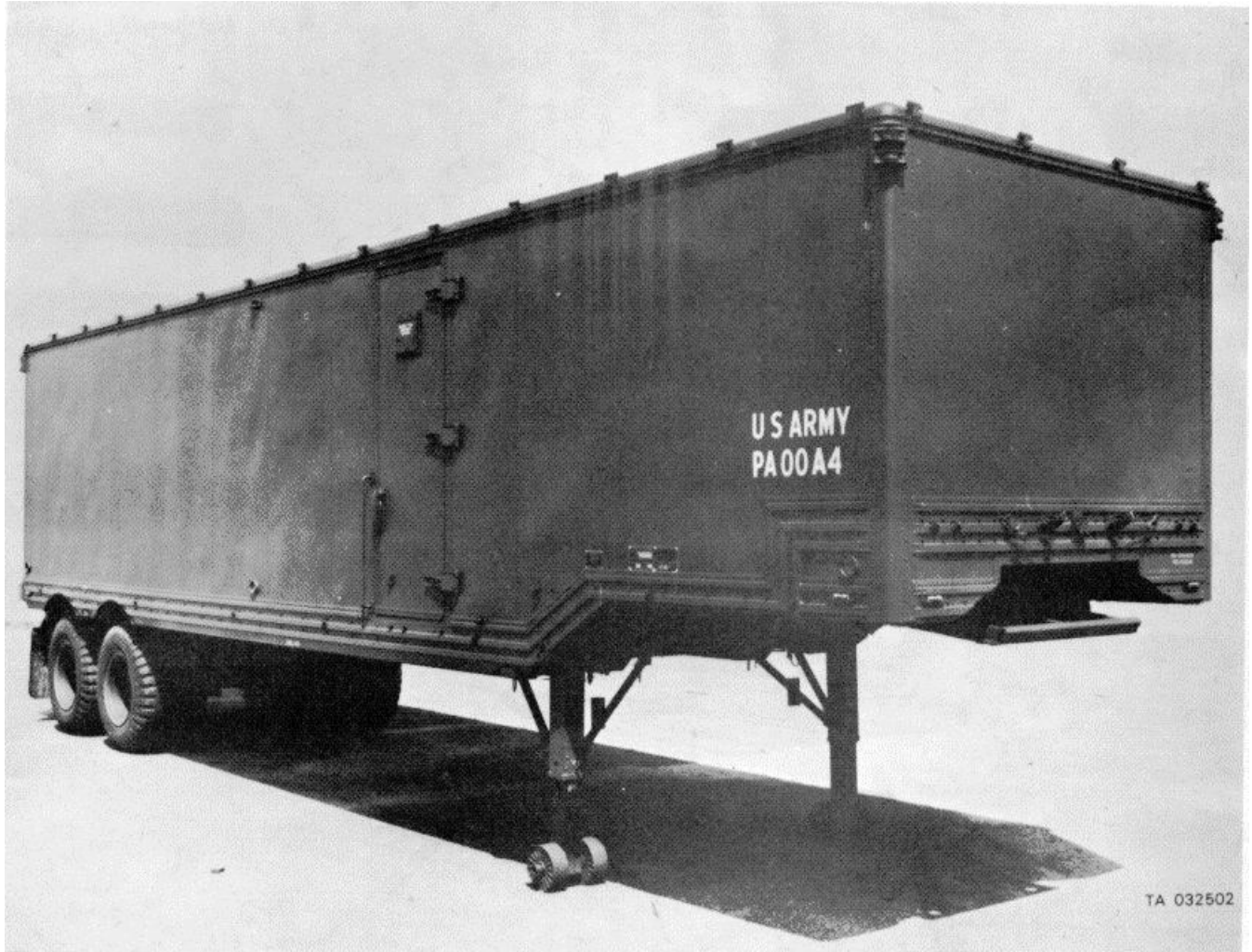
TA 032531

*Figure 1-22. Semitrailer, van on-line electronic, XM844*



TA 032527

Figure 1-23. Semitrailer, van off-line electronic, XM845



*Figure 1-24. Semitrailer, van digital terminal no 1, XM847-right front view*

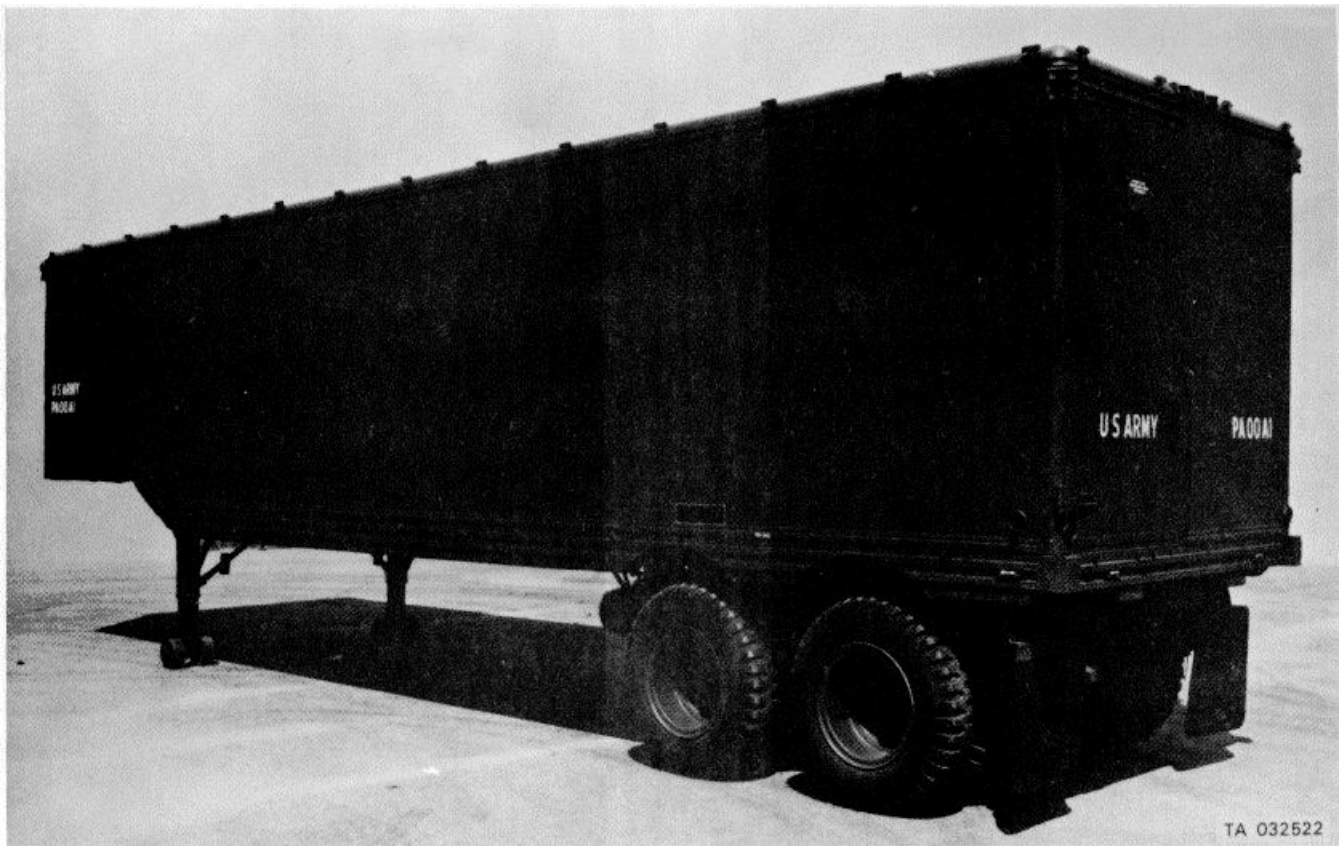


*Figure 1-25. Semitrailer, van digital terminal no 1, XM847-left rear view*

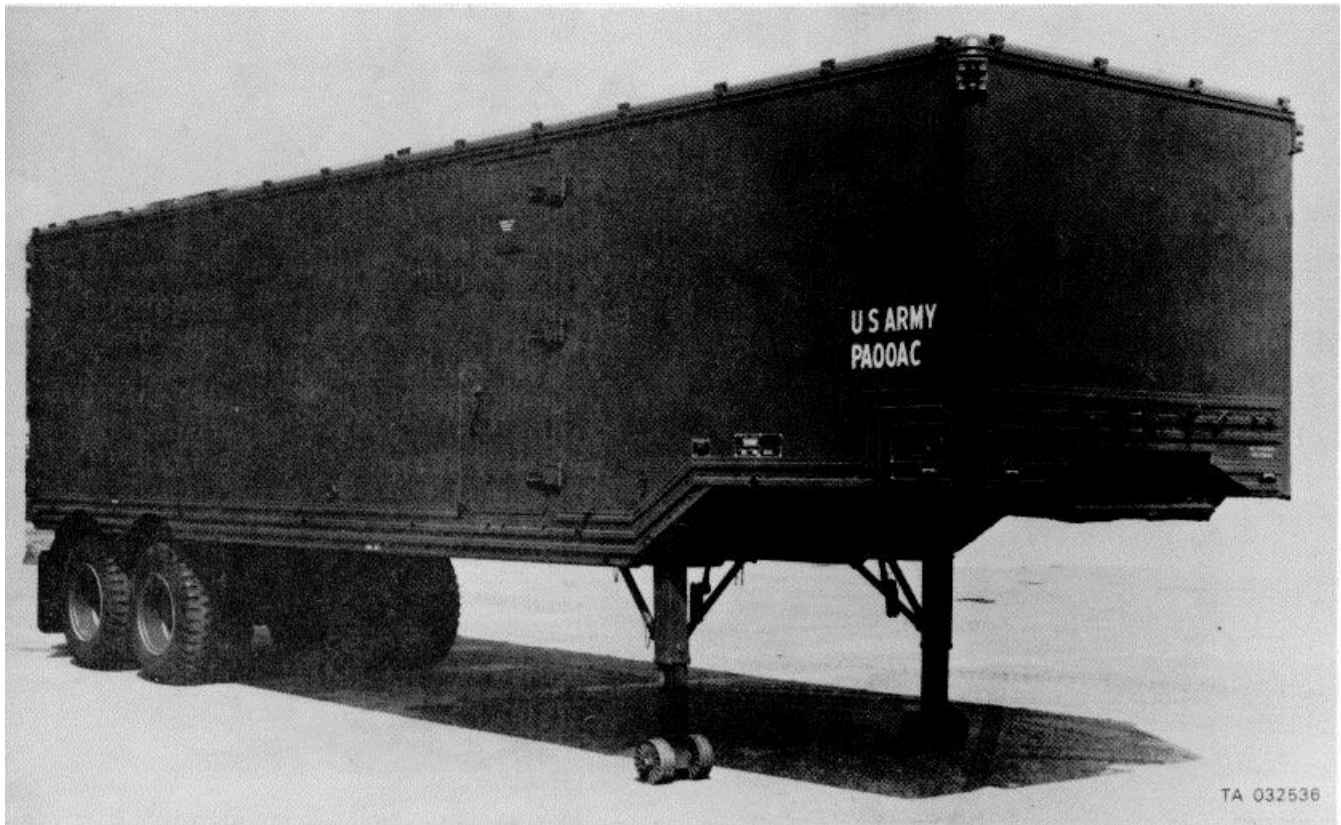




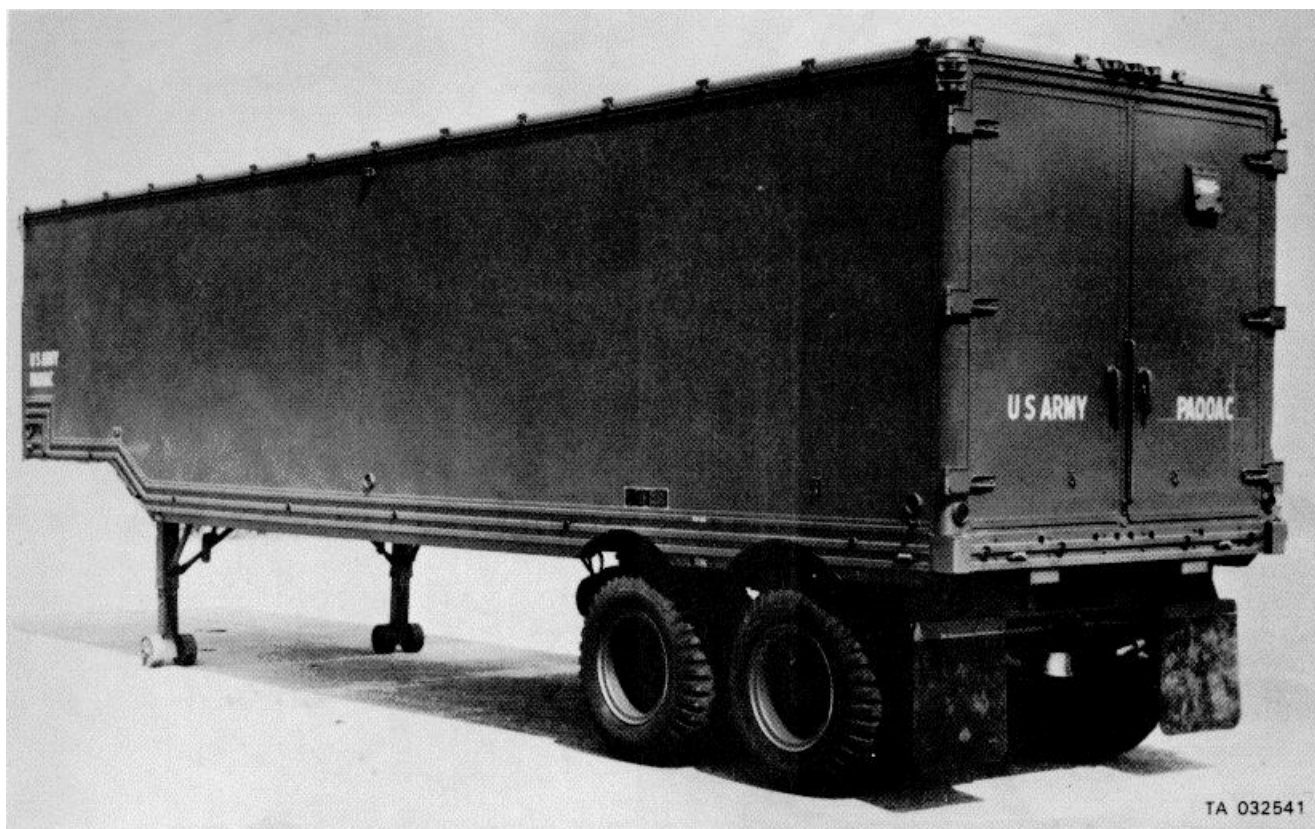
*Figure 1-26. Semitrailer, van digital terminal no 2, XM848-right front view*



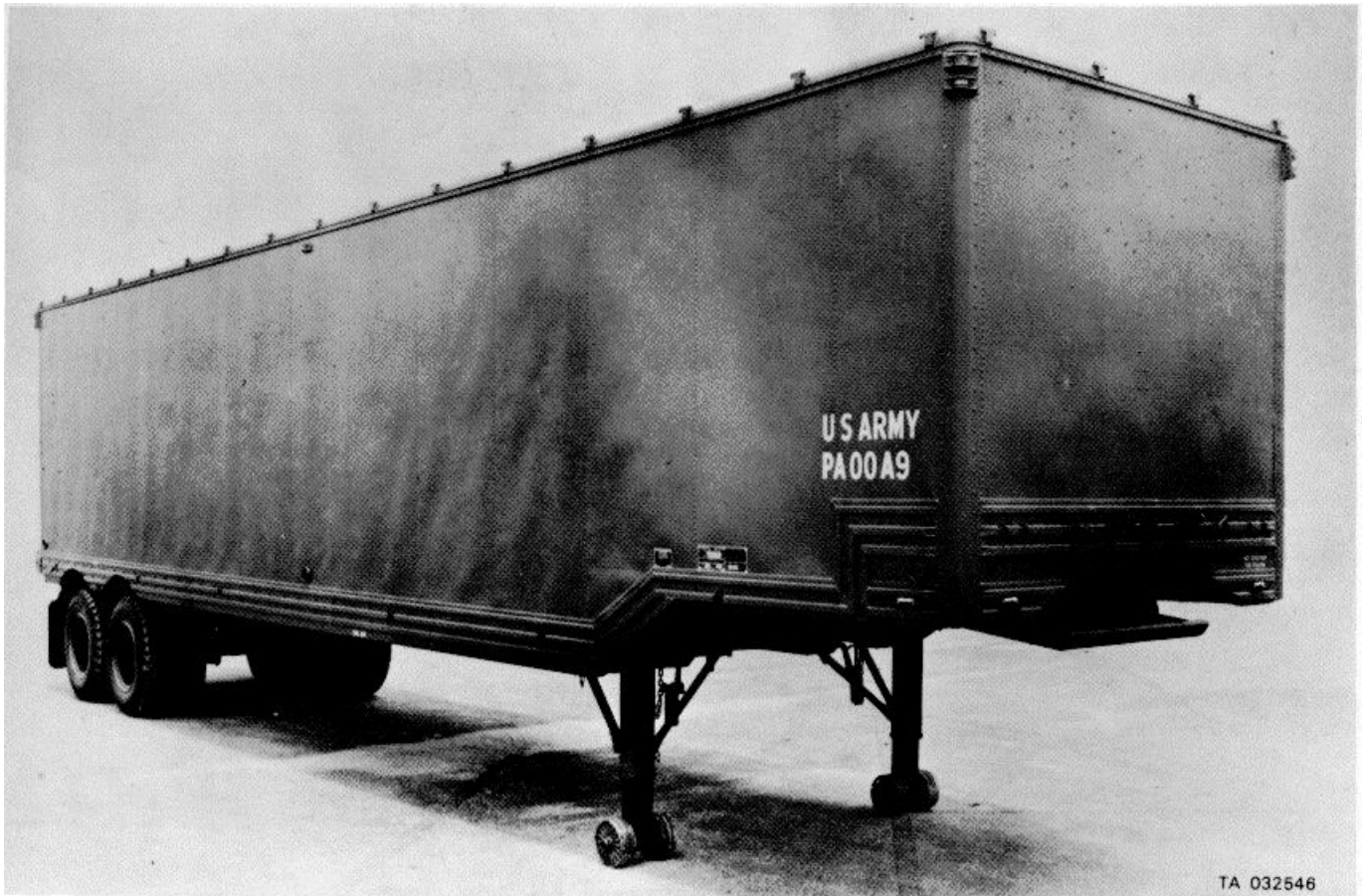
*Figure 1-27. Semitrailer, van digital terminal no 2, XM848-left rear view*



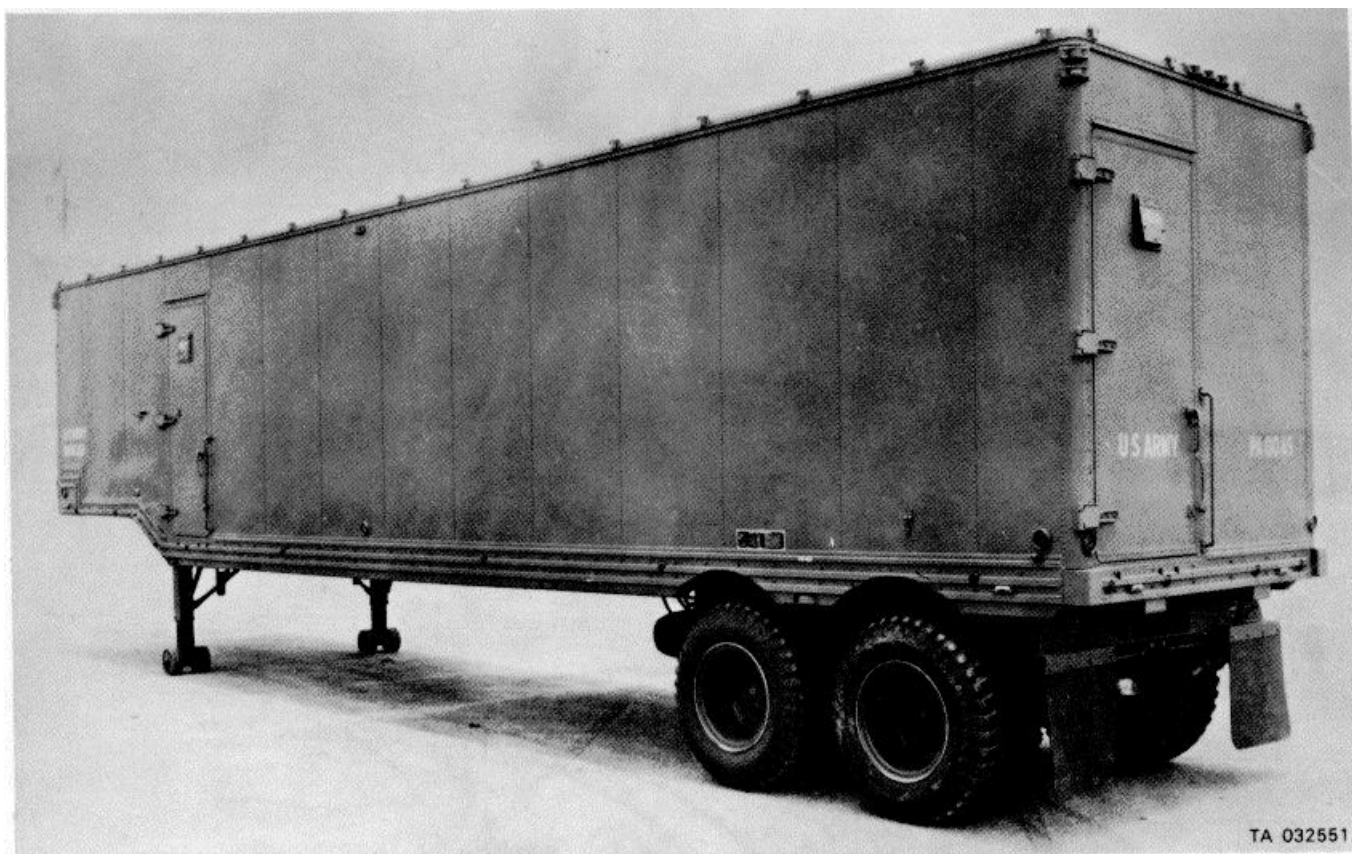
*Figure 1-28. Semitrailer, van secure voice, XM849-rightfront view*



*Figure 1-29. Semitrailer, van secure voice, XM849-left rear view*

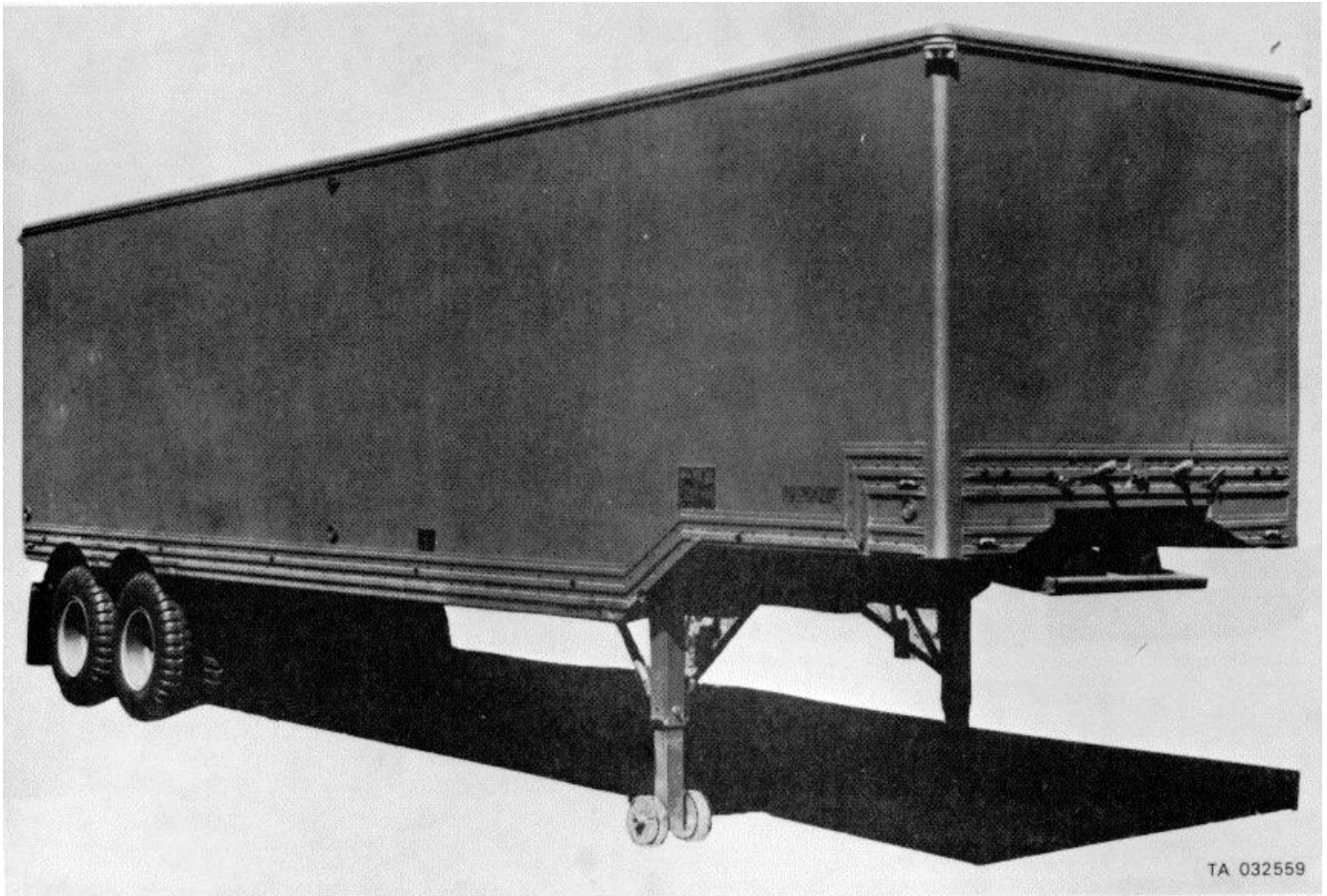


*Figure 1-30. Semitrailer, van-voice switch, XM850-right front view*



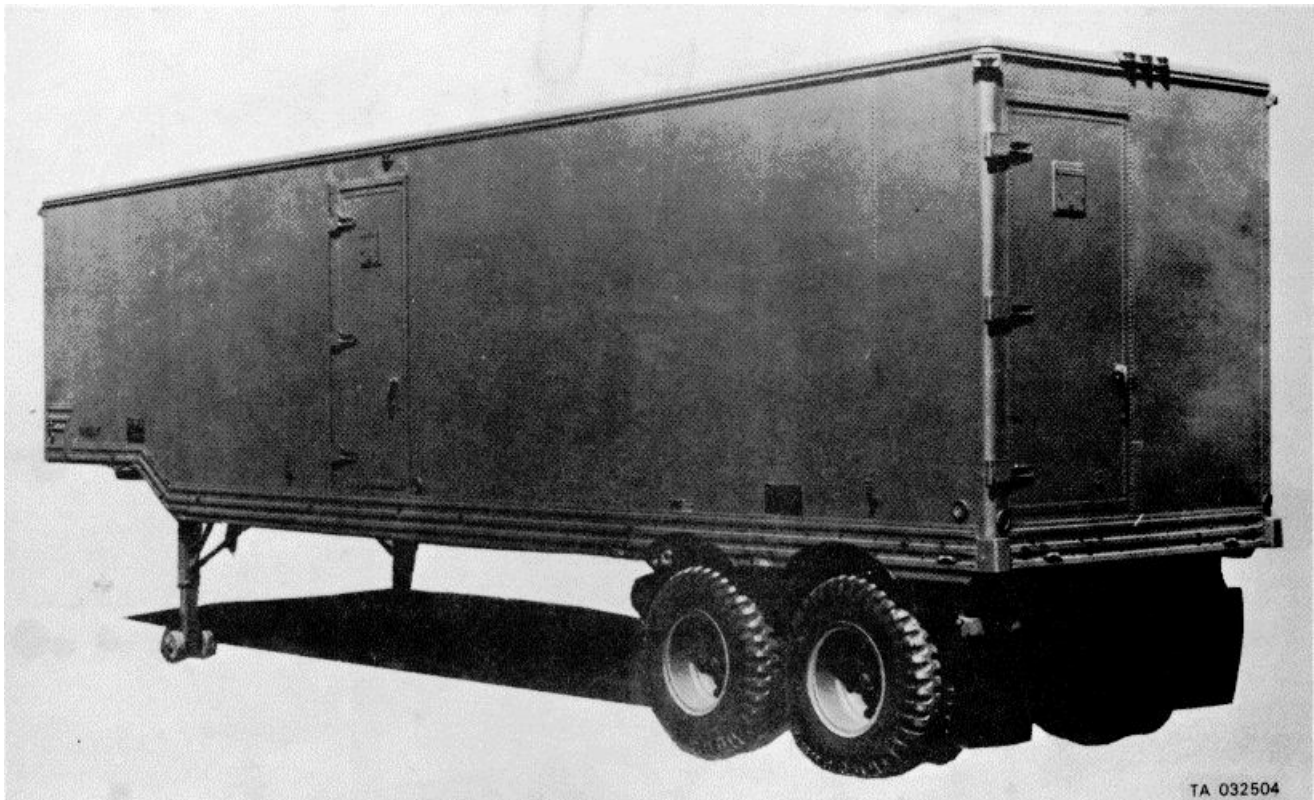
*Figure 1-31. Semitrailer, van-voice switch, XM850-left rear view*



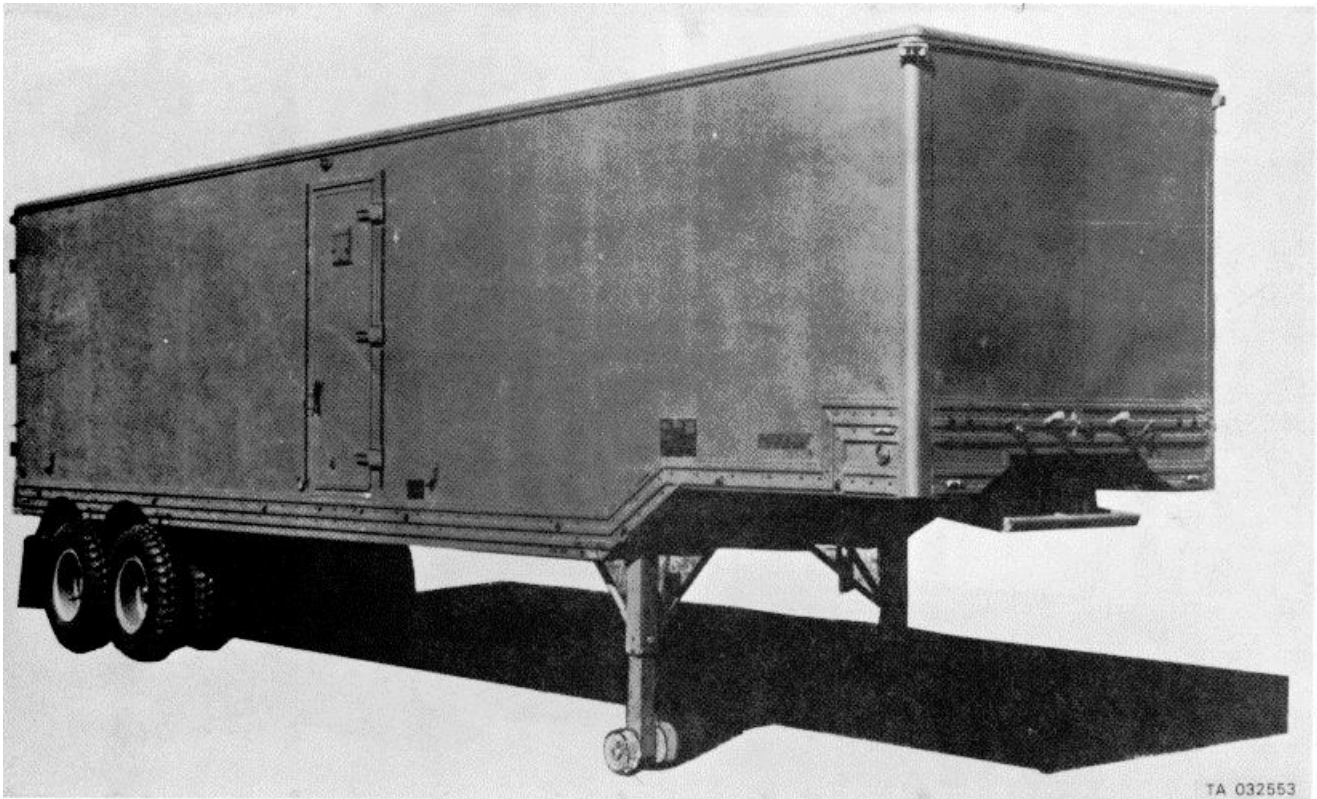


*Figure 1-32. Semitrailer, van: main frame, XM912-right front view*

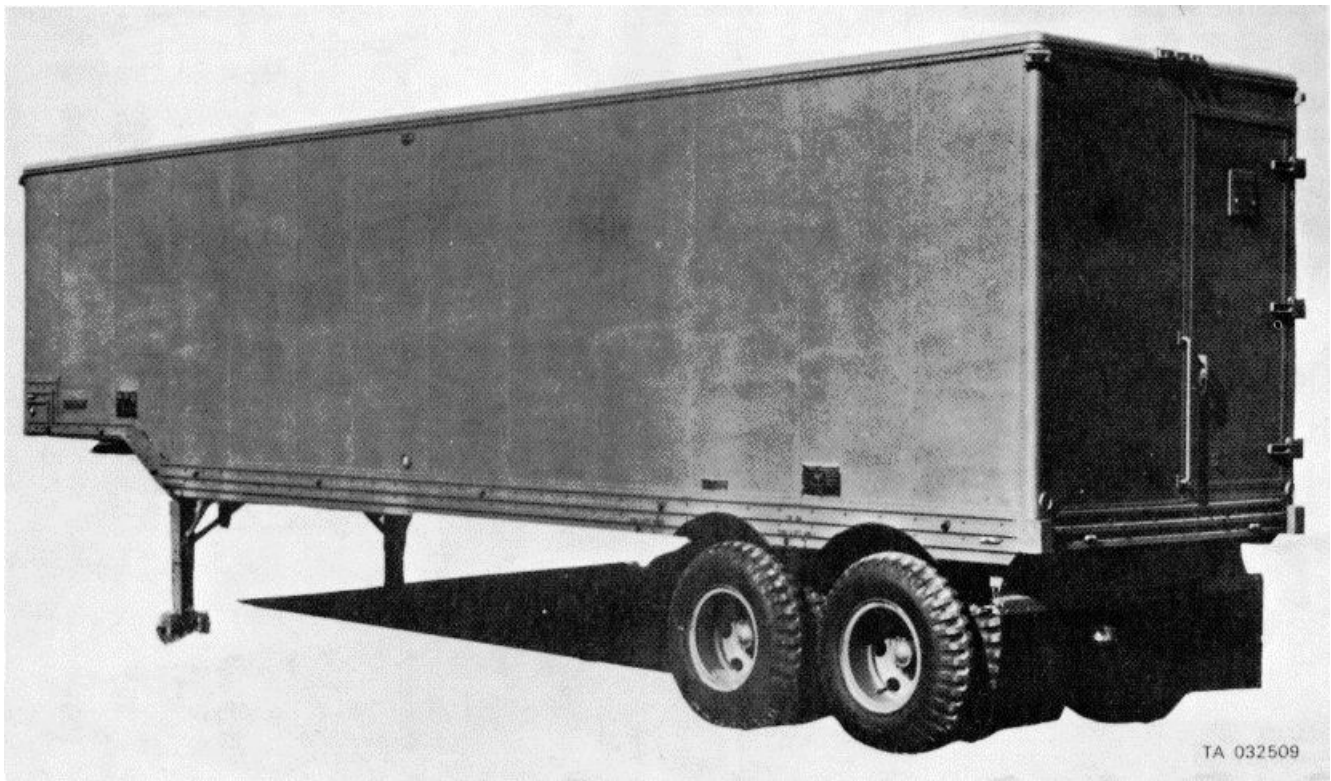




*Figure 1-33. Semitrailer, van main frame, XM912-left rear view*



*Figure 1-34. Semitrailer, van mass storage, XM913-rightfront view.*



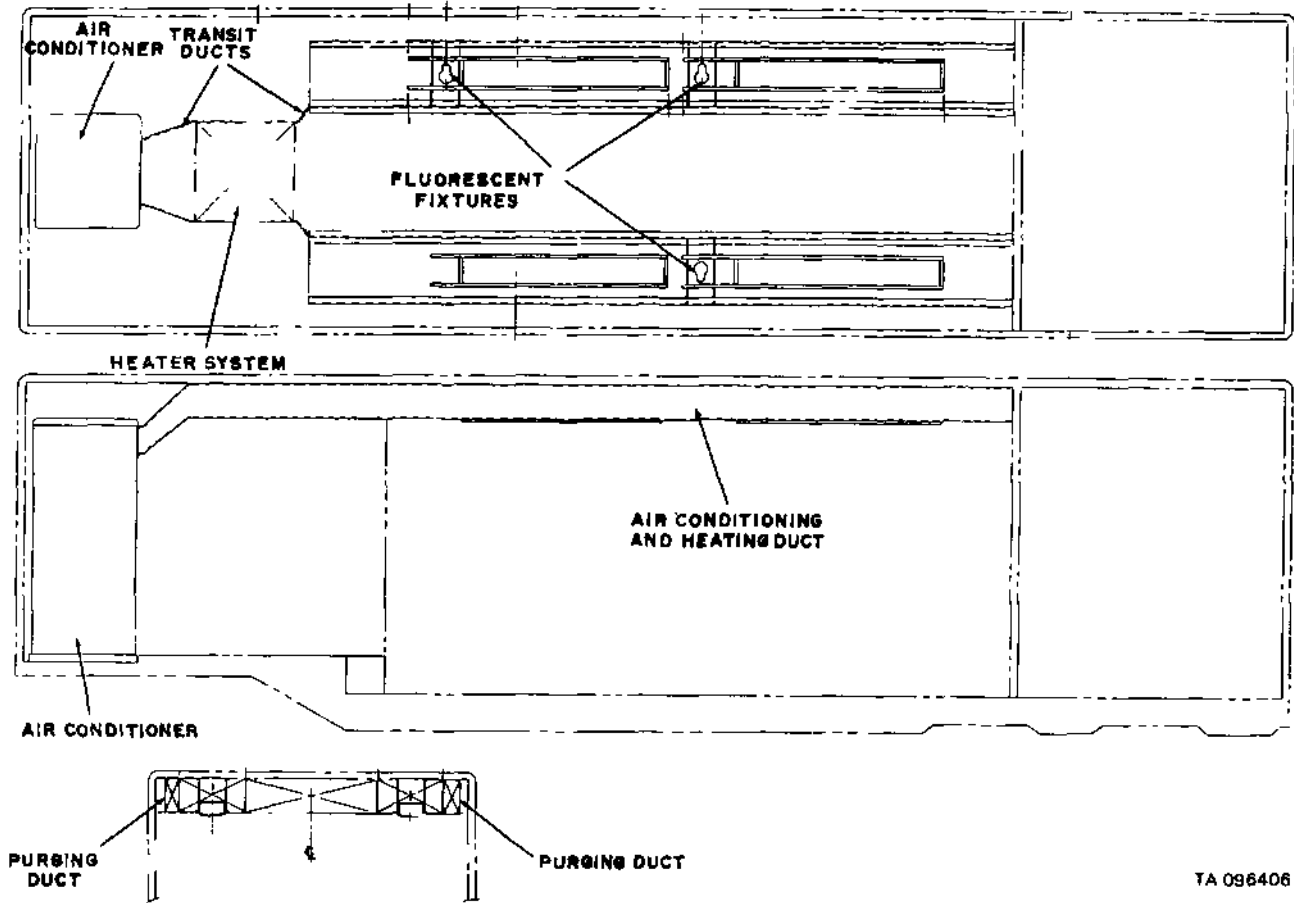
*Figure 1-35. Semitrailer, van: mass storage, XM913-left rear view.*

### 1-8. Differences in Models

a. The semitrailer vans covered in this manual differ in configuration and equipment. Some vans incorporate the conventional tandem suspension, while others are equipped with the air ride suspension. Doors differ both in quantity, location and configuration. Some semitrailers incorporate a swing-up landing gear instead of the rigid type.

b. The interior of the XM822 semitrailer (petroleum testing laboratory) is composed of three

compartments: laboratory compartment, which is entered through the rear curbside door; utility compartment, which is entered through the forward curbside door; and the rear compartment, which is entered through the rear van door and an inside door located in a partition at the rear of the laboratory compartment. Purging and air-conditioning ducts are built into the ceiling (fig. 1-36).



TA 096406

Figure 1-36. Air conditioning and purging ducts, XM822.

c. In addition to the differences noted in the tabulated data (paragraph 1-10), Table 1-1 lists the differences among the various models.

Table 1-1. Differences Among Models

Front Platform	
XM654 .....	Has front platform
All other models .....	None
Doors	
Rear	
XM654, XM822 .....	Single door in center
XM844, XM845, XM847, XM848, XM850, XM912 .....	Single door on left
XM913 .....	Single door on right
XM574, XM574E1, XM680, XM680E1, XM738, XM739, XM739E1, XM823, XM824, XM849 .....	Double doors
Front	
XM680, XM680E1 .....	Double doors
XM822 .....	Single door in center
Curbside	
XM574, XM574E1, XM654, XM913 .....	Single door approximately in center
XM680, XM680E1 .....	Single door over tandem
XM738, XM739, XM824, XM845, XM847, XM848, XM849 .....	Single door, rear of drop
XM822 .....	Two single doors, one at drop, one rear of drop
XM739E1, XM823, XM844, XM850, XM912 .....	None
Roadside	
XM680, XM680E1 .....	Single door in front
XM739 .....	Single door over tandem
XM739E 1 .....	Two doors, one toward rear, other rear of drop
XM823, XM844, XM847, XM850, XM912 .....	Single door, rear of drop
XM574, XM574E1, XM654, XM738, XM822, XM824, XM845, XM848, XM849, XM913 .....	None
Landing Gear	
XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824, XM844, XM845 .....	Rigid landing gear
XM847, XM848, XM849, XM850, XM912, XM913 .....	Swing-up landing gear
XM654 .....	Pad base for landing gear
All other models .....	Wheels on landing gear
Leveling Jack	
XM738, XM739, XM739E1 .....	4 leveling jacks, 2 at rear, 2 at center of van
All other models .....	2 leveling jacks at rear
Leveling Jack Pad	
XM680 .....	Cast aluminum
All other models .....	Ordinance standard
Ladder	
XM654 .....	16 ft aluminum extension ladder and 2 boarding ladders stowed under van, 12 ft ladder hinged at right rear to allow it to swing down
XM822 .....	12 ft ladder, two 3-step and one 4-step boarding ladders stowed under van
All other models .....	12 ft ladder and two boarding ladders stowed under van
Suspension	
XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824 .....	Tandem suspension
XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913 .....	Air ride suspension
Kingpin	
XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824 .....	Standard kingpin
XM844, XM845 .....	Resilient kingpin
XM847, XM848, XM849, XM850, XM912, XM913 .....	Air ride kingpin

Table 1-1 Differences Among Models - Continued

## Level Assembly

XM738, XM739, XM739E1, XM822, XM823, XM824, XM844, XM845 XM847, XM848, XM849, XM850, XM912, XM913.....	8 level assemblies, located at the corners, for van leveling
---	---

## Access Panels

## Curbside

XM654.....	10
XM680.....	3
XM822.....	2
All other models .....	none

## Roadside

XM654.....	10
XM680.....	3
XM822.....	2
All other Models .....	None

## Fire Extinguisher

XM574E1, XM654, XM680, XM6801.....	2
XM738, XM739, xm739E1.....	1
XM822.....	4
All other models .....	None

## Pioneer Tool Bracket

XM574E1, XM654, XM738, XM739, XM739E1, XM822, XM823, XM824, XM844, XM845, XM847, XM848, XM849, XM850.....	1
--	---

## Blower Installation

XM654.....	2
------------	---

## Air Conditioner

XM654, XM680, XM68OE1, XM822.....	Built-in air conditioner
All other models .....	None

## Heater

XM654, XM680, XM68OE1 .....	Electrical heating strips in air conditioner
-----------------------------	---

XM822 .....	Electrical heating system
-------------	---------------------------

All other models .....	None
------------------------	------

**1-9. Name, Data and Instruction Plates**

a. *Name and Data Plate.* This plate, located on the front, right side of the van, lists the name of the vehicle, national stock number, manufacturer's serial number, contract number, publications concerning the vehicle, delivery and inspection dates, weight and dimension data, and shipping cubage.

b. *Instruction Plate for Landing Gear and Leveling Jack.* This plate, located on the side of the van body above the landing gear crank access hole, contains instructions for operating the landing gear and leveling jack.

c. *Removable Dolly Instruction Plate.* This plate, located on the right side (left side on some semitrailers) of the dolly frame, contains instructions for removing the dolly.

d. *Instruction Plate for Adapter Storage.* This plate, located midpoint on the lower left side of the van body, contains information on the proper method to store the components of the adapter assembly.

**1-10. Tabulated Data**

## a. General.

Towing facility

All models.....Kingpin

## Dimensions:

## Overall length

XM574, XM574E1, XM680, XM680E1, XM822 .....	374 in.
XM654 .....	439 5/8 in.
XM738, XM739, XM739E1, XM850 .....	456 in.
XM823, XM824, XM844, XM845, XM847, XM848, XM849 .....	410 in.
XM912, XM913.....	425 in.

## Overall Width

All models.....96 in.

## Kingpin to front

XM654 .....	24 in.
all other models .....	18 in.

## Kingpin to center of axle

XM574, XM574E1, XM680, XM680E1, XM822 .....	283 in.
--	---------

Dimensions:

XM654 .....	335 in.
XM738, XM739, XM739E1, XM850 .....	372 in
XM823, XM824, XM844, XM845, XM847, XM848, XM849 .....	319 in.
XM912, XM913 .....	341 in.
Overall height (operational)	
XM574, XM574E1, XM680, XM680E1, XM823, XM824, XM844, XM845, XM847, XM848, XM849 .....	132 in.
XM654 .....	149.5 in.
XM738, XM739, XM739E1, XM822, XM850 .....	142 in.
XM912, XM913 .....	141 in.
Overall height (reduced)	
XM574, XM574E1, XM680, XM680E1, XM823, XM824, XM844, XM845, XM847, XM848, XM849 .....	93 in.
XM654 .....	108 in.
XM738, XM739, XM739E1, XM822, XM850 .....	103 in.
XM912, XM913 .....	102 in.
Weight (empty)	
XM574 .....	11,540 lbs.
XM574E 1 .....	12,460 lbs.
XM654 .....	14,280 lbs.
XM680 .....	15,890 lbs.
XM680E1 .....	14,920 lbs.
XM738 .....	14,300 lbs.
XM739 .....	14,370 lbs.
XM739E1 .....	14,965 lbs.
XM822 .....	15,800 lbs.
XM823, XM824 .....	13,380 lbs.
XM844, XM845 .....	13,230 lbs.
XM847 .....	13,830 lbs.
XM848 .....	13,710 lbs.
XM849 .....	13,920 lbs.
XM850 .....	15,104 lbs.
XM912 .....	15,380 lbs.
XM913 .....	15,280 lbs.
Weight on kingpin (empty)	
XM574 .....	3,250 lbs.
XM574E 1 .....	3,660 lbs.
XM654 .....	4,422 lbs.
XM680 .....	5,870 lbs.
XM680E1 .....	5,520 lbs.
XM738, XM739 .....	4,690 lbs.
XM739E1 .....	5,013 lbs.
XM822 .....	5,192 lbs.
XM823, XM824 .....	4,310 lbs.
XM844, XM845 .....	4,230 lbs.

Dimensions:

XM847 .....	4,650 lbs.
XM848 .....	4,610 lbs.
XM849 .....	4,730 lbs.
XM850 .....	5,296 lbs.
XM912 .....	5,100 lbs.
XM913 .....	5,060 lbs.
Weight on wheels (empty)	
XM574 .....	8,290 lbs.
XM574E1 .....	8,800 lbs.
XM654 .....	9,858 lbs.
XM680 .....	10,020 lbs.
XM680E1 .....	9,200 lbs.
XM738 .....	9,610 lbs.
XM739 .....	9,680 lbs.
XM739E1 .....	9,952 lbs.
XM822 .....	10,608 lbs.
XM823, XM824 .....	9,070 lbs.
XM844, XM845 .....	9,000 lbs.
XM847 .....	9,180 lbs.
XM848 .....	9,100 lbs.
XM849 .....	9,190 lbs.
XM850 .....	9,808 lbs.
XM912 .....	10,280 lbs.
XM913 .....	10,220 lbs.
Cubbage (shipping)	
XM574, XM574E1 .....	2710 cu. ft.
XM654 .....	3667 cu. ft.
XM680, XM680E1 .....	2757 cu. ft.
XM738, XM739, XM739E1, XM850 .....	3660 cu. ft.
XM822 .....	2967 cu. ft.
XM823, XM824, XM844, XM845, XM847, XM848, XM849 .....	3022 cu. ft.
XM912, XM913 .....	3384 cu. ft.
b. Axle	
Tubular ordnance standard	
All models .....	10,000 lbs.
c. Brake system	
Actuation (all models) .....	Air-over hydraulic
Brake assemblies (all models) .....	4
d. Electrical system.	
Voltage	
All models .....	24-volt dc
XM654 .....	12/24-volt dc breaker panel for 110-volt ac and 440- volt ac



Voltage  
 XM680, XM680E1 ..... 24-volt dc  
 breaker panel for  
 208-volt ac  
 and 110-volt ac  
 Power source  
 XM822 ..... Outside  
 power/  
 source for  
 110/220-volt ac  
 24-volt dc (all models) ..... Towing vehicle  
*e. Tires (all models)*  
 Number ..... 8  
 Type ..... Military  
 pneumatic  
 Design ..... Cross-country,  
 ..... non-directional  
 Number of plies ..... 8  
 Tire inflation  
 Highway ..... 35 psi  
 Cross-country ..... 25 psi  
 Sand, mud, snow ..... 20 psi  
*f. Kingpin assembly.*  
 XM574, XM574E1, XM654,  
 XM680, XM680E1, XM738,  
 XM739, XM739E1, XM822,  
 XM823, XM824 ..... Standard kingpin  
 XM844, XM845 ..... Resilient kingpin  
 XM847, XM848, XM849,  
 XM850, XM912,  
 XM913 ..... Air mounted  
 kingpin  
 Air pressure ..... 17,000 lbs.  
 static load-60  
 psig  
 Stroke ..... 6 in. total  
 (3 in. total  
 compression,

Tire Inflation:  
 Air spring ..... Neoprene nylon  
 air cell operative to  
 -40° F  
 Assembly weight  
 (including air controls) ..... 450 lbs.  
*g. Suspension system.*  
 XM574, XM574E1, XM654,  
 XM680, XM680E1, XM738,  
 XM739, XM739E1  
 XM822, XM823, XM824 ..... Tandem  
 suspension  
 XM844, XM845, XM847,  
 XM848, XM849, XM850,  
 XM912, XM913 ..... Air suspension  
 ..... system  
 Capacity ..... 20,000 lbs.  
 Weight (including diagonal  
 braces and air spring  
 mounting plates) ..... 500 lbs.  
 Axle travel ..... 81/2 in. total-  
 41/2 in. up, 4  
 in. down  
 Air spring ..... Neoprene nylon  
 air cell operative  
 to- 40°F  
*h. Landing gear.*  
 XM574, XM574E1, XM654,  
 XM680, XM680E 1, XM738,  
 XM739, XM739E1,  
 XM822, XM823, XM824,  
 XM844, XM845 ..... Standard  
 ..... rigid type  
 XM847, XM848, XM849,  
 XM850, XM912, XM913 ..... Swing-up  
 ..... gear

## CHAPTER 2 OPERATING INSTRUCTIONS

### CAUTION

If equipment fails to operate, refer to troubleshooting procedure in Chapter 3.

### Section I. OPERATING PROCEDURES

#### 2-1. General

This section describes, locates, and illustrates the semitrailer operating controls. It also provides the operator with sufficient information to use the various controls for operation of the semitrailer under normal conditions. Operation under unusual conditions is described in section III of this chapter.

#### 2-2. Coupling Semitrailer to Towing Vehicle

##### *a. Connect Kingpin to Fifth Wheel.*

(1) Using landing gear crank (paragraph 2-5), raise or lower semitrailer until the kingpin is slightly higher than the rear of fifth wheel plate on towing vehicle.

(2) Slowly back towing vehicle until kingpin slides into notch on fifth wheel plate and locks into catch.

(3) Raise landing gear legs.

##### *b. Connect Air Brake Hoses.*

(1) Remove dummy couplings on front of semitrailer and place in their supports.

(2) Connect coupling marked SERVICE on towing vehicle air hose to coupling marked SERVICE on semitrailer.

(3) Connect coupling marked EMERGENCY on towing vehicle air hose to coupling marked EMERGENCY on semitrailer.

##### *c. Open Air Shutoff Valve.*

(1) Make certain air reservoir drain cock is closed (fig. 2-5).

(2) Open two air shutoff valves on towing vehicle to pressurize semitrailer air system.

##### *d. Connect Electrical Cable.*

(1) Plug intervehicular 24-volt electrical cable on towing vehicle into receptacle at front of semitrailer.

(2) Check to see that all lights are in working order (Note, paragraph 3-9).

*e. Check Air Springs, XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913.*

(1) Build up air pressure on towing vehicle to 65 psi. Visually inspect for proper air spring inflation. Check to see that semitrailer is level when air springs are fully inflated.

(2) Tow semitrailer at operating speeds and note any irregularities in leveling.

(3) Park towing vehicle and shut down engine. Air springs should slowly deflate in a level condition.

(4) Check and have tightened nuts, bolts, and air connections as required.

#### 2-3. Uncoupling Semitrailer from Towing Vehicle.

*a. Block semitrailer wheels with the wheel chocks.*

*b. Lower landing gear legs until they support the front of the van body (paragraphs 2-5 and 2-6).*

*c. Disconnect air brake hoses from towing vehicle.*

*d. Disconnect 24-volt power supply cable from semitrailer.*

*e. Release kingpin lock on the fifth wheel and drive towing vehicle away from van body.*

#### 2-4. Preparing Semitrailer for Operation.

##### *a. Preliminary Steps*

(1) Disconnect from towing vehicle (paragraph 2-3 above).

(2) Level van body (paragraph 2-10c).

##### *b. Check-Out Procedures.*

(1) Doors Open and close all doors to check operation of hinges and latching mechanism.

(2) *Ladders.* Remove boarding ladders from ladder brackets on underside of semitrailer. Position ladders in their location and inspect for proper mating of ladder latch in holes below each door. Check operation of ladder clamp assembly (paragraph 2-11).

(3) *Window (XM822)* Check window glass and condition of the seals around the window.

(4) *Electrical system.* Connect 24-volt power to the semitrailer through the intervehicular cable from the towing vehicle to the intervehicular cable receptacle. Connect 110 and 220-volt power through the respective power entrance receptacle. Turn switches and circuit breakers to the ON position and observe that all lights illuminate and that all switches are operable. Check that receptacles are operable using an extension light.

(5) *Air conditioner* (XM654, XM680, XM680E1, XM822) Start air conditioner to check operation of thermostat and controls (paragraph 2-14, 2-15, 2-16).

(6) *Heater* (XM822). Start heating system to check operation of thermostat and controls (paragraph 2-17).

**2-5. Landing Gear Crank, XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824, XM844, XM845.**

a. The operating crank is located on the outer side of the landing gear and to the rear of the kingpin (figs. 2-1 and 2-2).

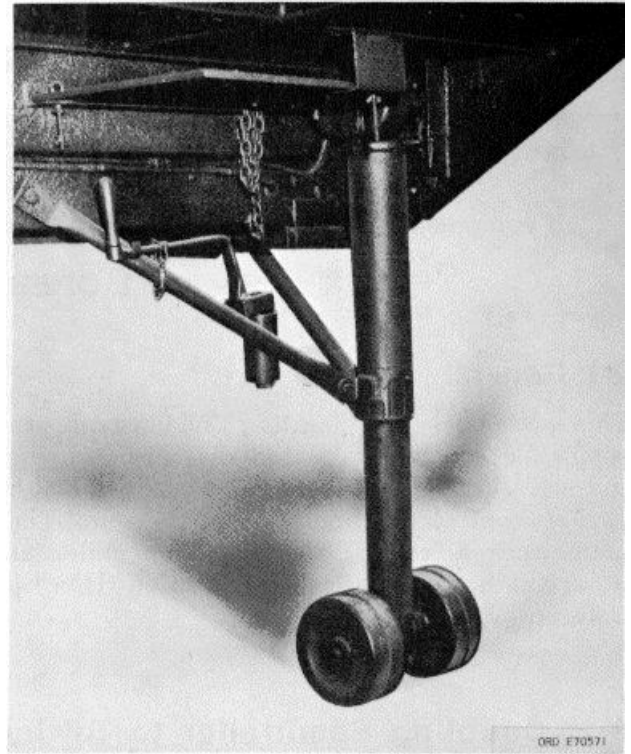


Figure 2-1. Landing gear, XM574, XM574E1, XM680, XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824, XM844, XM845

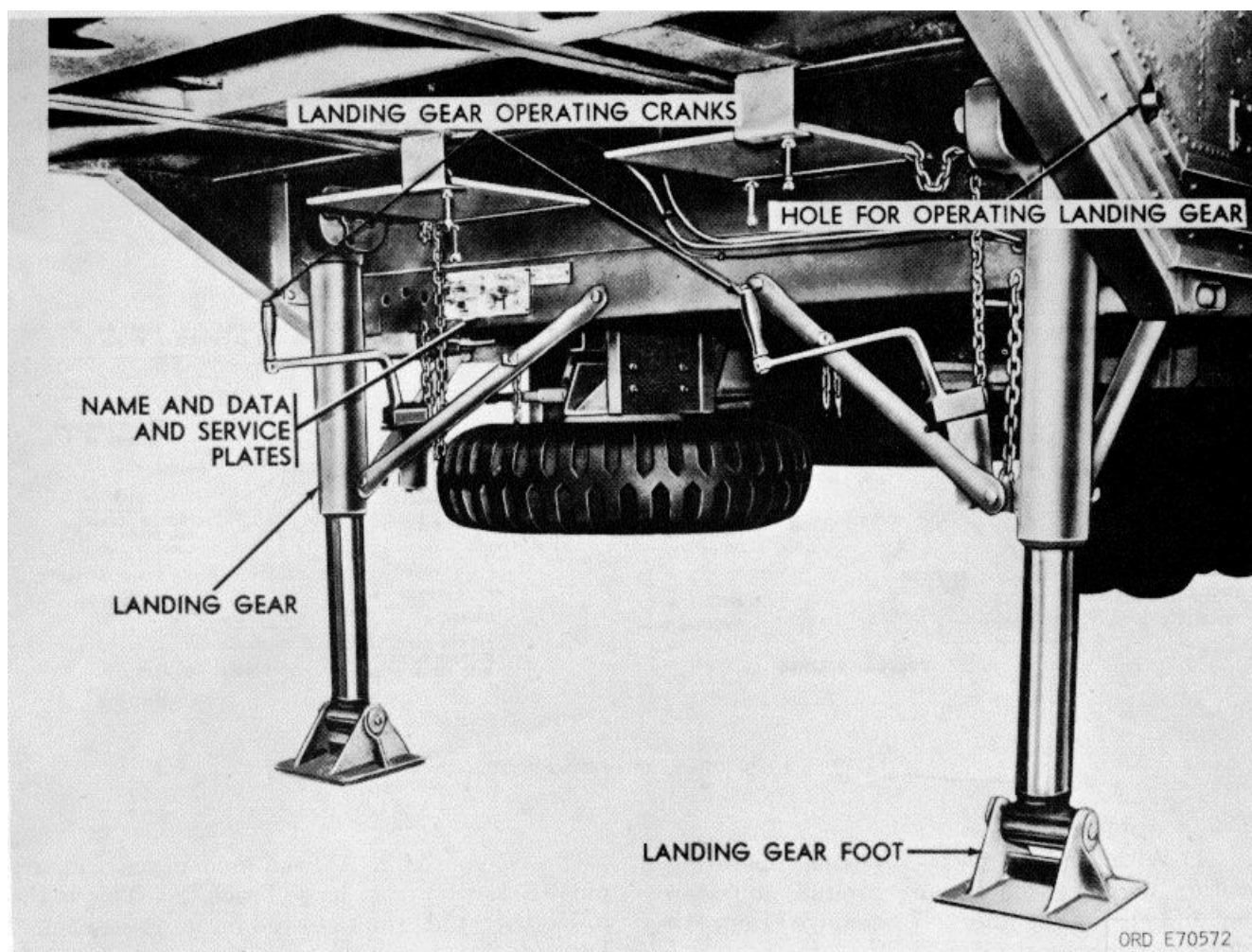


Figure 2-2. Landing gear, XM654

b. Turning crank in a clockwise direction lowers the landing gear and raises front of van; turning crank counterclockwise raises the gear and lowers front of van.

c. Pushing crank handle in will obtain a low speed action and pulling the handle out will provide a high speed action. Normally, the high speed position will be used when there is no load on the chassis. The low speed position is used when the load becomes too great to turn the crank handle in the high speed position.

d. The operating crank has a ratchet head which enables the operator to crank the landing gear without making a complete revolution. A lever on the trailer side of the crank head is positioned for the direction of rotation desired.

**2-6. Swing-Up Landing Gear, XM847, XM848, XM849, XM850, XM912, XM913 (fig. 2-3).**

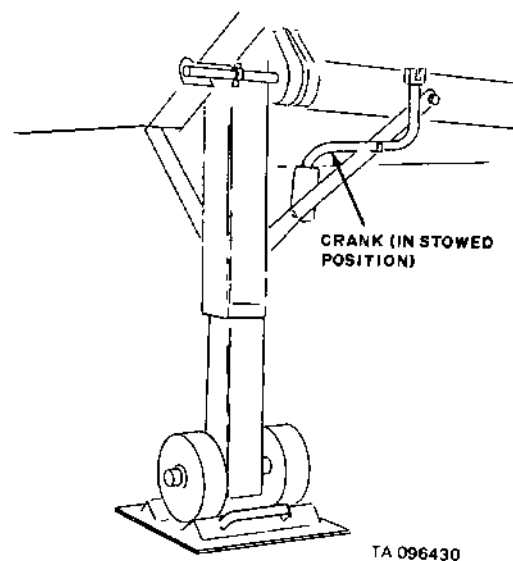


Figure 2-3. Swing-up landing gear, XM847, XM848, XM849, XM850, XM912, XM913

a. Operation (fig. 2-4).

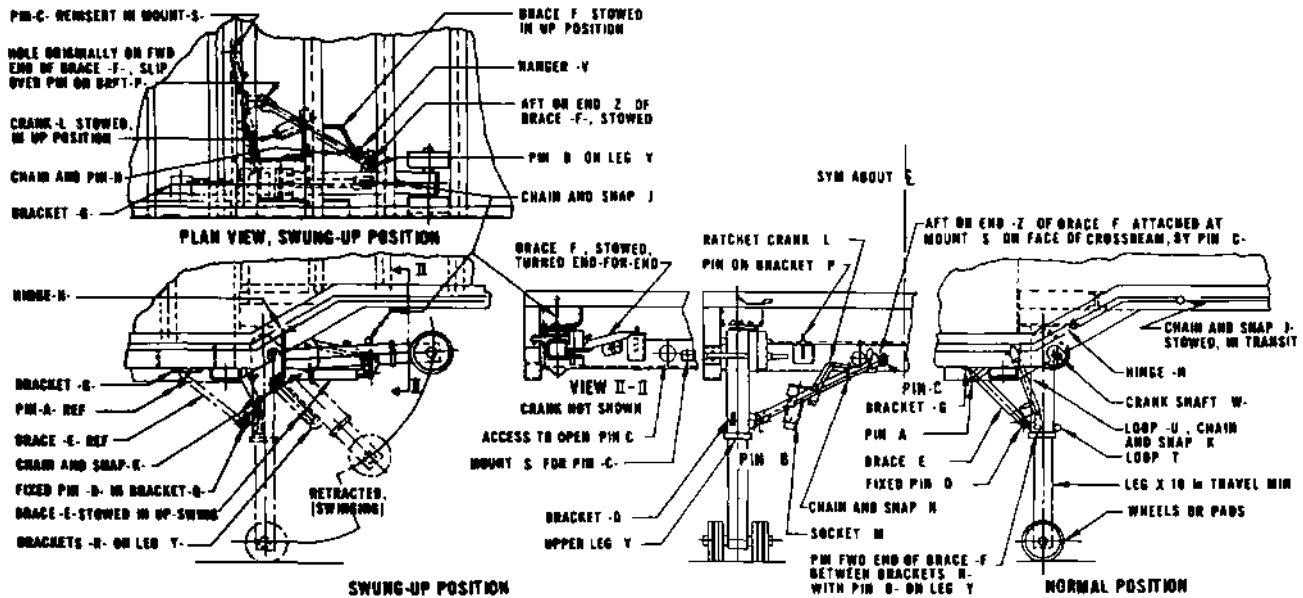


Figure 2-4. Operation and swing-up procedures.

TA 096538

(1) With landing gears in normal operating position with legs contacting ground, unfasten snap and chain assembly (N). Remove crank (L) from stowage socket (M).

(2) Position slot in crank (L) to engage pin in shaft (W).

(3) Landing gears are two speed separately operated landing legs.

(4) Pull out shaft (W) for speed travel.

(5) Push in shaft (W) for low speed travel.

(6) Set ratchet on crank (L) to raise or lower trailer. Clockwise rotation raises van. Counterclockwise rotation lowers van.

b. Swing-Up Procedure (fig. 2-4).

**NOTE**

Swing landing gear to horizontal position for aircraft loading only.

**WARNING**

Semitrailer must be supported on the K-loader. Be sure all toggle pins have been lubricated with GAA grease and are operable and removable.

(1) Using crank (L), retract leg (X) approximately 12 inches. Replace crank (L) in stowed position on brace (F). Refasten snap and chain assembly (N).

(2) Remove pin (A) from small brace. Remove pins (B and C) from large brace (F). This is the brace with the crank stowed on it. Fasten small brace to leg assembly with snap and chain assembly (K).

(3) Pick up brace (F) with crank (L) stowed on it. Turn brace end for end (plan view). Aft end (Z) is now at forward end near pin (B). Place end hole around pin on bracket (P).

(4) Manually lift each leg assembly carefully to horizontal position. Attach snap and chain assembly (J) to hold each leg. Aline hole in end (Z) of brace (F) on top of (not between) brackets (R) on leg assembly (Y).

(5) Insert pin (B) to secure each landing gear and brace in wing-up position.

c. Swing-Down Procedure (fig. 2-4).

(1) Remove pin (B).

(2) Remove snap and chain assembly (J) which secures each leg.

(3) Carefully and slowly allow leg to extend to the vertical position.

(4) Position brace (F) with crank (L) stowed on it, making certain to turn it end for end to the position is occupied prior to performance of step (3) above.

(5) Release snap and chain assembly (K) and allow brace (E) to engage bracket (G) while lowering leg assembly.

(6) Install pin (C) into mount (S). Install pins (A and B).

#### 2-7. Air Brake Half Couplings (fig. 4-34).

a. Two air brake half couplings are mounted on the front of the chassis. The coupling on the right side is labelled SERVICE by a metal tag attached to the coupling. The other coupling (on the left) is labelled EMERGENCY. When the SERVICE air brake coupling on the towing vehicle is connected to SERVICE coupling on the chassis and the EMERGENCY air brake coupling is connected to EMERGENCY coupling, the service

braking system on the chassis is controlled from the towing vehicle.

b. Connect the dummy couplings to the air brake couplings to prevent dirt from entering the braking system when the chassis is not connected to the towing vehicle.

#### 2-8. Air Reservoir Drain Cock (fig. 2-5)

a. The hand operated drain cock is located at end and bottom of air reservoir.

b. Turn counterclockwise to open drain cock to drain moisture and to permit release of air pressure if brakes lock. Turn clockwise to close drain cock.

c. Open drain cock daily after semitrailer operation. Close before operation.

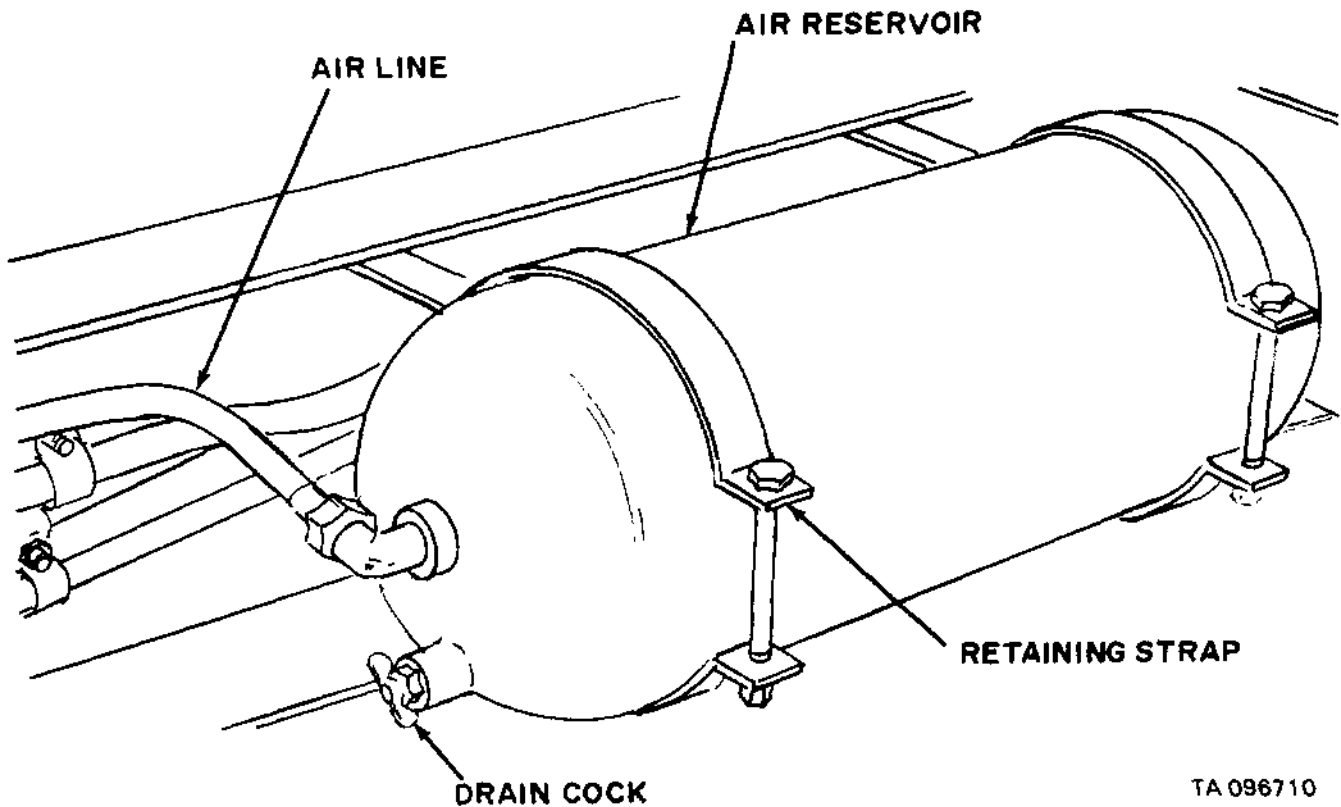


Figure 2-5. Air reservoir drain cock.

## 2-9. Removal and Installation of Spare Wheel and Tire

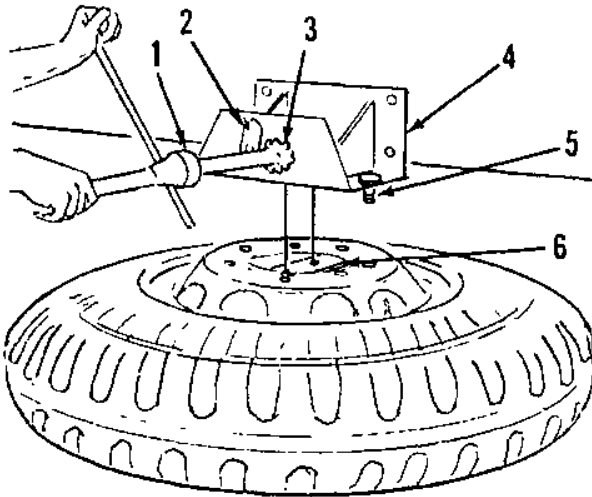
### a. Removal (fig. 2-6).

(1) Working from curbside of semitrailer, use wheel nut wrench (1) and remove two wheel nuts which secure wheel to upper member (4) of spare wheel carrier.

(2) The wheel and lower pick-up member (6) are held in place by the wire rope.

(3) Place wheel nut wrench (1) on the nut at outer end of ratchet wheel (3) on which the wire rope is wound.

(4) Release pawl (2) from ratchet and turn wrench counterclockwise to lower wheel to ground.



TA 096529

- |                    |                  |
|--------------------|------------------|
| 1 Wheel nut wrench | 4 Upper member   |
| 2 Pawl             | 5 Securing bolts |
| 3 Ratchet wheel    | 6 Pick-up member |

Figure 2-6. Removing and installing spare wheel and tire.

(5) Slide wire rope and pick-up member (6) through center hole in wheel.

(6) Remove the spare wheel.

### b. Installation (fig 2-6).

(1) Remove the wheel nuts securing lower pick-up member (6) to upper member (4) of spare wheel carrier.

(2) Release pawl (2) from ratchet and lower pick-up member to the ground.

(3) Rotate pick-up member (6) until it aligns with wire rope and insert rope through large hole in wheel. Rotate pick-up member so that it is at right angles to wire rope.

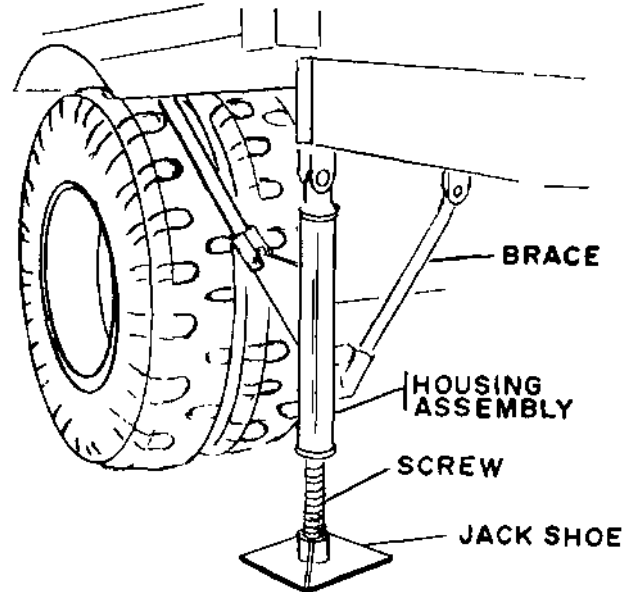
(4) Set pawl (2) in contact with the ratchet and turn wheel nut wrench (1) on ratchet wheel (3) clockwise to raise the wheel.

(5) As wheel moves up to carrier assembly, align securing bolts (5) with any two holes in wheel.

(6) After wheel is tight against upper member, tighten the wheel nuts, using wheel nut wrench (1).

## 2-10. Leveling Jack (fig. 2-7)

a. A jack assembly is provided at each rear corner of the semitrailer. It consists of a housing assembly, screw, removable jack shoe, and handle.



TA 096614

Figure 2-7. Leveling Jack.

### b. To operate, follow procedure below:

(1) Remove leveling jack shoe located on crossmember just forward of tandem suspension and place shoe on the ground in alignment with jack assembly.

(2) Pull out the two retaining pins securing jack to rear of semitrailer frame and allow jack to swing down into vertical position.

(3) Pull out the retaining pin from the short side brace and pin brace to gusset on side of jack housing.

(4) Swing long rear brace up into position and pin in place.

(5) Insert handle in hole at bottom of actuation screw and turn clockwise to lower actuator screw on to the shoe.



- c. To level van body, proceed as follows:
  - (1) Follow procedure of paragraph b above to set leveling jacks in operating position.
  - (2) Check the four levels at rear corners of van body and adjust leveling jacks as required.
  - (3) Check the four levels at front corners of van body. Level front end of van body, using the landing gear.
  - (4) Check all eight levels. Adjust each leveling jack or landing gear leg until the bubbles of all eight levels are centered.
- d. To retract and stow, proceed as follows:
  - (1) Insert handle in hole at bottom of actuation screw and turn counterclockwise to retract actuator screw.
  - (2) Remove handle and stow in pintle recess.
  - (3) Pull out retaining pin securing long rear brace in position.
  - (4) Pull out retaining pin securing short side brace to gusset on side of jack housing assembly.
  - (5) Swing leveling jack up to horizontal position and secure with two retaining pins at rear of semitrailer frame.
  - (6) Secure leveling jack shoe on crossmember.

## 2-11. Ladder

- a. A 12-foot extension ladder is stored under all semitrailers except the XM654 and XM913. A 16-foot aluminum extension ladder is stored under the XM654 semitrailer. The XM654 semitrailer also has a 12-foot hinged ladder located on the right side of the rear wall.
- b. Each semitrailer has two boarding ladders stored under the van. The XM574, XM574E1, XM654, XM738, XM739, XM739E1, XM823, XM824, XM844, XM845, XM847, XM848, XM849, XM850, XM912 and XM913 semitrailers have two three-step ladders.
- c. The XM680 and XM680E1 and semitrailers have one three-step ladder and one four-step ladder. The XM822 semitrailer has two three-step ladders and one four-step ladder.
- d. Installing Boarding Ladder.
  - (1) A boarding ladder latch assembly is located on each side of the ladder at the end to be attached to semitrailer.
  - (2) To attach the boarding ladder to the semitrailer, turn left latch assembly handle to the right and right latch assembly to the left.
  - (3) Insert ladder end into mounting holes under the door.
  - (4) Turn left latch assembly handle to the left and right latch assembly handle to the right to secure ladder to the semitrailer.

## 2-12. Tarpaulin and Bows.

- a. All semitrailers except XM654, XM822, XM912 and XM913 have a solar tarpaulin (fig. B-4). Remove tarpaulin and bows from the stowed location under the chassis. The two end bows (fig. B-4) are shaped differently from the center bows (fig. B-4). The bow assemblies are provided with a hook and fastener at each end. The fasteners are screwed snugly into the tapped holes in the receiving plates at the top of the van walls. The tarpaulin is then stretched over the bows and tied.
- b. The XM844, XM845, XM847, XM848, XM849, and XM850 semitrailers have rods (fig. B-4) instead of bows to secure the tarpaulin. Insert rods into sockets on semitrailer and stretch tarpaulin over rods. Tie tarpaulin ropes to each bracket incorporating the socket.

## 2-13. Escape Lock Assembly

Some doors are equipped with an escape lock to enable personnel within the semitrailer to open locked doors. To operate the escape lock, push interior handle in to disengage the clutch, turn handle, and open door. The following doors are equipped with an escape lock:

Semitrailer	Door
XM574, XM574E1	Right side door
	Right rear door
XM738	Right side door
	Right rear door
	Left rear door
XM739	Both side doors
XM739E1	Both left side doors
	Right rear door
XM822	Both right side doors
	Rear door
XM823	Left side door
	Both rear doors
XM824	Right side door
	Both rear doors
XM844	Left side door
	Rear door
XM845	Right side door
	Rear door
XM847	Both side doors
	Right rear door
XM848	Right side door
	Right rear door
XM849	Right side door
	Both rear doors
XM850	Left side door
	Right rear door
XM912	Left side door
	Left rear door
XM913	Right side door
	Right rear door

## Section II. OPERATION OF AUXILLARY EQUIPMENT

### 2-14. Air Conditioner, XM654 (fig. 9-1).

#### a. General.

(1) Two model CE60VAL6, 208-volt, three phase, 60 Hz, 60,00 BTU air conditioners are mounted on the front platform of the XM654 semitrailer.

(2) The remote control units are located on the right side wall near the partition.

(3) A blower is incorporated in the system and operates automatically when the units are activated.

(4) Refer to TM 5-4120-235-15 for operation and service instructions.

#### b. Operating Air Conditioner for Cooling

(1) Set the thermostat on the remote control unit to the desired temperature.

(2) Place selector switch to COOL.

(3) To stop air conditioner, place selector switch to OFF.

#### c. Operating Air Conditioner for Heating.

### CAUTION

**Wait 5 minutes after stopping air conditioner before restarting unit.**

(1) Set thermostat on remote control unit to the desired temperature.

(2) Place selector switch to the desired position (LO HEAT or HI HEAT).

(3) To stop air conditioner, set selector switch to OFF.

### 2-15. Air Conditioner, XM680 XM680E1 (fig. 9-2).

#### a. General

(1) Four model CE20VAL6, 208-volt, three phase, 60 Hz, 18,000 Btu air conditioners are mounted in front of the XM680 and XM680E1 semitrailers, directly to the rear of the front doors.

(2) The remote control units are located on the inside face of the front bulkhead (fig. 9-2)

(3) The damper control consists of a chain and linkage which opens and closes the air intake louvers to regulate the proportion of inside and outside air drawn into the air conditioner.

(4) Refer to TM 5-4120-222-15 for operation and service instructions.

#### b. Operating Air Conditioner for Cooling.

(1) Place damper control in desired position for the proportion of inside and outside air required.

(2) Set thermostat on the remote control unit to the desired temperature.

(3) Place selector switch to COOL.

(4) To stop air conditioner, place selector switch to OFF. Close damper control.

### CAUTION

**Wait 5 minutes after stopping air conditioner before restarting unit.**

#### c. Operating Air Conditioner for Heating.

(1) Place damper control in desired position.

(2) Set thermostat on remote control unit to the desired temperature.

(3) Place selector switch to the desired position (LO HEAT or HI HEAT)

(4) To stop air conditioner, set selector switch to OFF.

### 2-16. Air Conditioner, XM822

#### a. General.

(1) A model 76E34-104, 208-volt, three phase, 60 Hz, 60,000 Btu air conditioner is mounted inside the front door of the XM822 semitrailer.

(2) The remote control unit is located in the main control panel in the laboratory compartment.

(3) Ducts are installed the length of the ceiling on each side of the semitrailer from the air conditioner to the rear compartment (fig. 1-36).

(4) Refer to TM 5-4120-295-15 for operation and service instructions.

#### b. Operating Air Conditioner for Ventilation.

(1) Open the three vent panels in van front door.

(2) Turn rotary control switch on remote control unit to VENT.

(3) Adjust damper control knobs on air conditioner to admit fresh air as desired.

(4) To stop the air conditioner, turn rotary control switch to OFF. Close dampers. Close vent panels on front door.

#### c. Operating Air Conditioner for Cooling.

(1) Open the three vent panels in van front door.

(2) Connect a hose to the drain and allow condensation to drain to the ground.

(3) Set thermostat on remote control unit to be desired temperature.

(4) Position rotary control switch on remote control panel to COOL.

(5) Turn damper control knobs to desired position from MIN (100% return air) to MAX (100% fresh air).

(6) To stop the air conditioner, turn rotary control switch to OFF. Close dampers. Remove drain hose. Close vent panels on front door.

**2-17. Heating System, XM822****a. General**

(1) The heating system is composed of a heater assembly consisting of 12 heating elements located in the air conditioning duct to the rear of the air conditioner.

(2) The heater assembly contains six 100-watt, 220-volt elements located on the lower tier, and six 1600-watt, 220-volt elements located on the upper tier of the heater assembly.

(3) The remote control unit containing the thermostat and the rotary control switch is located on the roadside wall forward of the main control panel. The rotary control switch has four positions: OFF, LOW, MEDIUM, and HIGH.

(4) LOW position activates the 1000-watt heating elements and lights HEATER NO. 1 indicating lamp.

(5) MEDIUM position activates the 1600-watt heating elements and lights HEATER NO. 2 indicating lamp.

(6) HIGH position activates both the 1000-watt and the 1600-watt heating elements and lights both HEATER NO. 1 and HEATER NO. 2 indicating lamps.

(7) A safety switch is installed in the duct above the heating elements to shut off heater power in the event the unit overheats.

**b. Operating Heating System**

(1) Turn air conditioner rotary control switch on the air conditioner remote control panel to VENT.

(2) Set heater thermostat on the heater remote control unit to the desired temperature.

(3) Set rotary control switch to the desired position.

(4) To stop the heating system, set rotary control switch to OFF and then set air conditioner rotary control switch to OFF.

**2-18. Fire Extinguisher**

**a.** The XM738, XM739, and XM739E1 semitrailers have one fire extinguisher located in the interior of the van.

**b.** The XM654 semitrailer has two fire extinguishers. One extinguisher is mounted over the rear door; the other is mounted on the side near the right side door.

**c.** The XM680 and XM680E1 semitrailers have two fire extinguishers. One extinguisher is mounted on the side near the right side door; the other is mounted on a partition near the left side door.

**d.** Each fire extinguisher is held in place with a bracket and clamp. The extinguisher is removed from the bracket by pulling the latch, which releases the clamp.

**e.** To use the fire extinguisher, rotate the horn to an UP position. Break the safety wire and remove the safety pin. Operate the extinguisher by squeezing the trigger and directing the horn at the base of the flame.

**Section III. OPERATION UNDER UNUSUAL CONDITIONS****2-19. General**

**a.** In addition to the normal preventive maintenance service, special care in cleaning and lubrication must be observed where extreme temperature, humidity, and terrain conditions are present or anticipated. Proper cleaning, lubrication, and storage and handling of fuels and lubricants not only insure proper operation and functioning, but also guard against excessive wear of the working parts and deterioration of the materials.

**b.** TM 21-300 explains driver selection, training, and supervision, while TM 21-305 provides special driving instructions for operating wheeled vehicles under unusual conditions. Read and study TM 21-300 and TM 21-305 before attempting to use your semitrailer under unusual conditions.

**c.** Refer to paragraphs 2-20 through 2-26 for operating procedures under unusual conditions. For lubrication procedures under operation in dusty and

sandy conditions and after fording operations, refer to paragraphs 3-4c and 3-4d.

**d.** When chronic failure of materiel results from subjection to extreme conditions, report the condition on DA Form 468.

**2-20. Operation in Extreme Cold****a. General.**

(1) Your semitrailer must be fully prepared when scheduled for operation in extreme cold weather. Generally, extreme cold causes lubricants to thicken or congeal, cracks insulation, causes electrical short circuits, and various construction materials become hard, brittle, and easily damaged or broken.

(2) You must always be on the alert for indications of the effect of cold weather on the semitrailer.

(3) You must be very cautious when placing the vehicle in motion after a shutdown. Congealed lubricants may cause failure of parts. Tires may be frozen to the ground or frozen to the shape of the flat spot while underinflated. One or more brake shoes may be frozen fast and require pre-heating to avoid damage to the towing vehicle clutch surfaces.

(4) Refer to TM 9-207 for description of operation in extreme cold.

*b. At Halt or Parking.*

(1) When you halt for short shutdown periods, park the vehicle in a sheltered spot out of the wind. If no shelter is available, park the chassis so that its least vulnerable parts face into the wind. For long shutdown periods, if high and dry ground is not available, prepare a footing of planks or brush.

(2) Clean all parts of the chassis of snow, ice, and mud as soon as possible after operation. Refer to tables 3-1 and 3-2, and paragraphs 3-6 and 3-7 for detailed after-operation procedures.

(3) Gage tires for correct pressure (paragraph 3-18b).

*c. Lubricants (Storage, Handling and Use)*

(1) Your equipment's operation at arctic temperatures will depend to a great extent upon the condition of the lubricants. Immediate effects of careless storage and handling or improper use of the materials are not always apparent, but any deviation from proper procedures may cause trouble at the least expected time.

(2) In arctic operations, contamination with moisture is a source of many difficulties. Moisture can be the result of snow getting into the product or may be condensation due to "breathing" of a partially filled container when a product is brought outdoors from room temperature. Other impurities will also contaminate lubricants and cause them to lose their usefulness.

(3) Refer to FM 9-207 for detailed instructions on storage, handling and use of lubricants.

## **2-21. Operation In Extreme Heat**

*a.* Do not park the semitrailer in the sun for long periods as the heat and sunlight will shorten the life of the tires. If possible, park vehicle under cover to protect it from the sun, sand and dust.

*b.* Cover inactive semitrailer with tarpaulins if no other suitable shelter is available. Each week shake out and air for several hours canvas covers or other items

subject to deterioration from mildew or attacks by insects or vermin. Clean mildewed canvas by scrubbing with a dry brush. Do not use water to remove dirt until mildew has been removed. If mildew is present, examine material carefully by stretching and pulling for evidence of rotting or weakening. Replace canvas if fabric shows weakness.

### **WARNING**

**Do not use gasoline, drycleaning solvent or mineral spirits paint thinner to remove oil or grease spots from canvas. Use only water and a scrubbing brush.**

*c.* Chassis inactive for long periods in hot, humid weather are subject to rapid rusting and accumulation of fungus. Frequently inspect, clean and lubricate your semitrailer to prevent excessive deterioration.

## **2-22. Operation in Dusty or Sandy Areas**

*a.* For emergency operations in beach and desert sands, correct tire inflation is listed in paragraph 3-18b. For continued operations in sand, oversize balloon and tires are necessary for all wheeled vehicles. The tread should be of plain rib and the tire of round cross section.

*b.* If one or more wheels become mired, it may be necessary for the chassis to be winched or the mired wheel may have to be jacked up and planking or matting inserted beneath it.

*c.* Operation under extremely sandy or dusty conditions requires frequent inspection, cleaning, and lubrication of the chassis working parts

## **2-23. Operation in Mud and Snow**

*a.* Reduce tire inflation to the proper pressure as listed in paragraph 3-18b. For continued operation in snow, install snow tread tires

*b.* After each operation, remove ice, snow, and mud from underneath trailer and from hoses, lines, tubes, and electrical connections.

## **2-24. Operation Under Rainy or Humid Conditions**

*a.* Protect semitrailer from direct rainfall whenever possible. During dry periods open van to air to facilitate drying process.

*b.* Keep moisture from entering the fuel supply. Clean fuel filter before each operation to remove accumulated moisture.

*c.* Dampness increases corrosive action. Inspect painted surfaces and electrical connections more frequently for damage.

#### **2-25. Operation In Salt Water Areas**

Wash salt deposits from all equipment with fresh water. Observe the precautions in paragraph 2-24.

#### **2-26. Fording Operations**

*a.* Instructions for fording operations for the owing vehicle apply also to the semitrailer.

*b.* Notify organizational maintenance to clean wheel bearings and hand pack with lubricant specified in lubrication chart after each submersion.

*c.* Reduce tire pressure to aid in amphibious landings.

## CHAPTER 3 OPERATOR'S MAINTENANCE INSTRUCTIONS

---

### Section I. LUBRICATION INSTRUCTIONS

#### 3-1. General

This section contains the lubrication order (figs. 3-1, 3-2 and 3-3) showing location, intervals and proper materials for lubricating the semitrailer.

# LUBRICATION ORDER

**SEMITRAILER, VAN: ELECTRONIC, XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824, XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913**

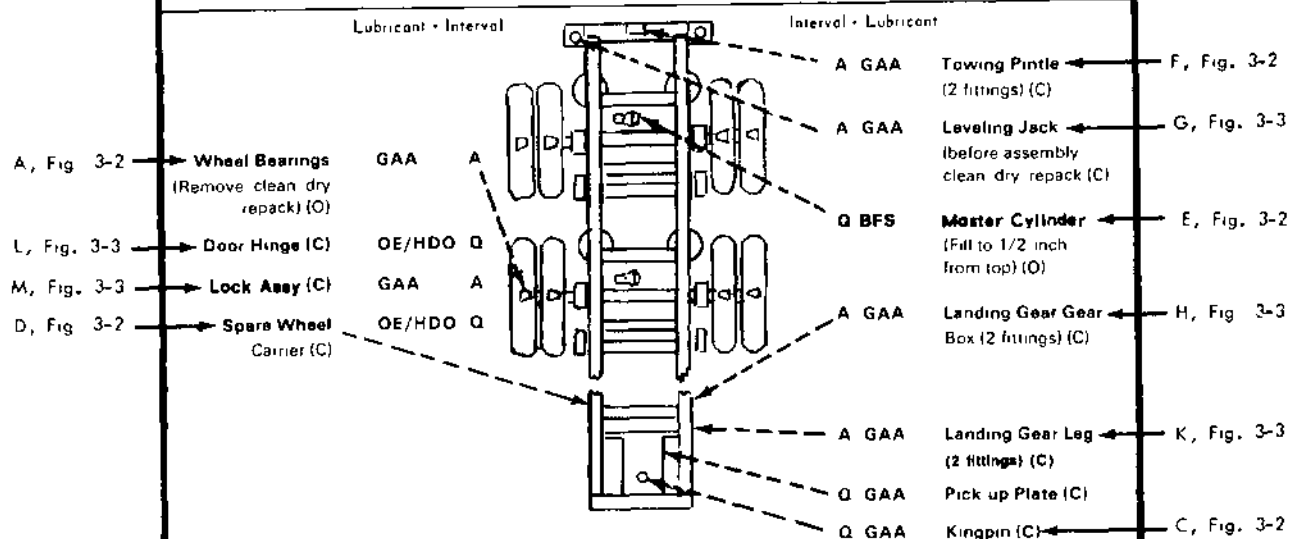
Intervals are based on normal operation. Adjust to compensate for abnormal and severe conditions or contaminated lubricants. During inactive periods intervals may be extended commensurate with adequate preservation.

Clean fittings before lubrication using dry cleaning solvent PD 880 (SP-1). Dry before lubricating.

Lubricate points indicated by DOTTED ARROW. SHAFTS on both sides of equipment. A DOTTED CIRCLE indicates a drain below.

Relubricate after washing or fording as necessary.

In the Table indicating lubrication Man Hours required per interval, the time specified is the time required to perform all services at the particular interval.



— TIME REQUIRED —

TOTAL MAN-HOURS		TOTAL MAN-HOURS	
Interval	Man-Hr	Interval	Man-Hr
Q	4	A	12

— KEY —

LUBRICANTS	EXPECTED TEMPERATURES			FOR ARCTIC OPERATION Refer to TM 9-207	INTERVALS
	above +32°F	+40°F to -10°F	0°F to -65°F		
OE/HDO OIL, lubr. engine, internal combustion	OE 30 HDO	OE 10 HDO			Q - Quarterly (3 months)
OEA-OIL, engine, internal combustion (sub-zero)			OEA		A - Annually every second semi-annual "S" P M Service
GAA-GREASE, lub. automotive and artillery	GAA	GAA	GAA		
BFS-FLUID, hydraulic brake arctic			BFS		
BFS-FLUID, hydraulic brake	BFS	BFS			

— NOTES —

- OIL CAN POINTS  
Quarterly lubricate all door hinges, latches, jack screws, and landing gear crankshaft with OE.
- DO NOT LUBRICATE - Springs
- LUBRICATION INTERVAL  
Interval marked "Q" may be lubricated by the operator if supervised by a qualified mechanic.

- Use hydraulic brake fluid (HB/HBA), non-petroleum base only. The use of petroleum base hydraulic fluid will render brakes inoperative.
- JACK ASSEMBLY  
Lubricated with GAA at time of disassembly.
- INTERVALS  
Lubrication intervals will be scheduled and performed during regular scheduled P M Services wherever possible.

TA 096600

Figure 3-1. Lubrication order.



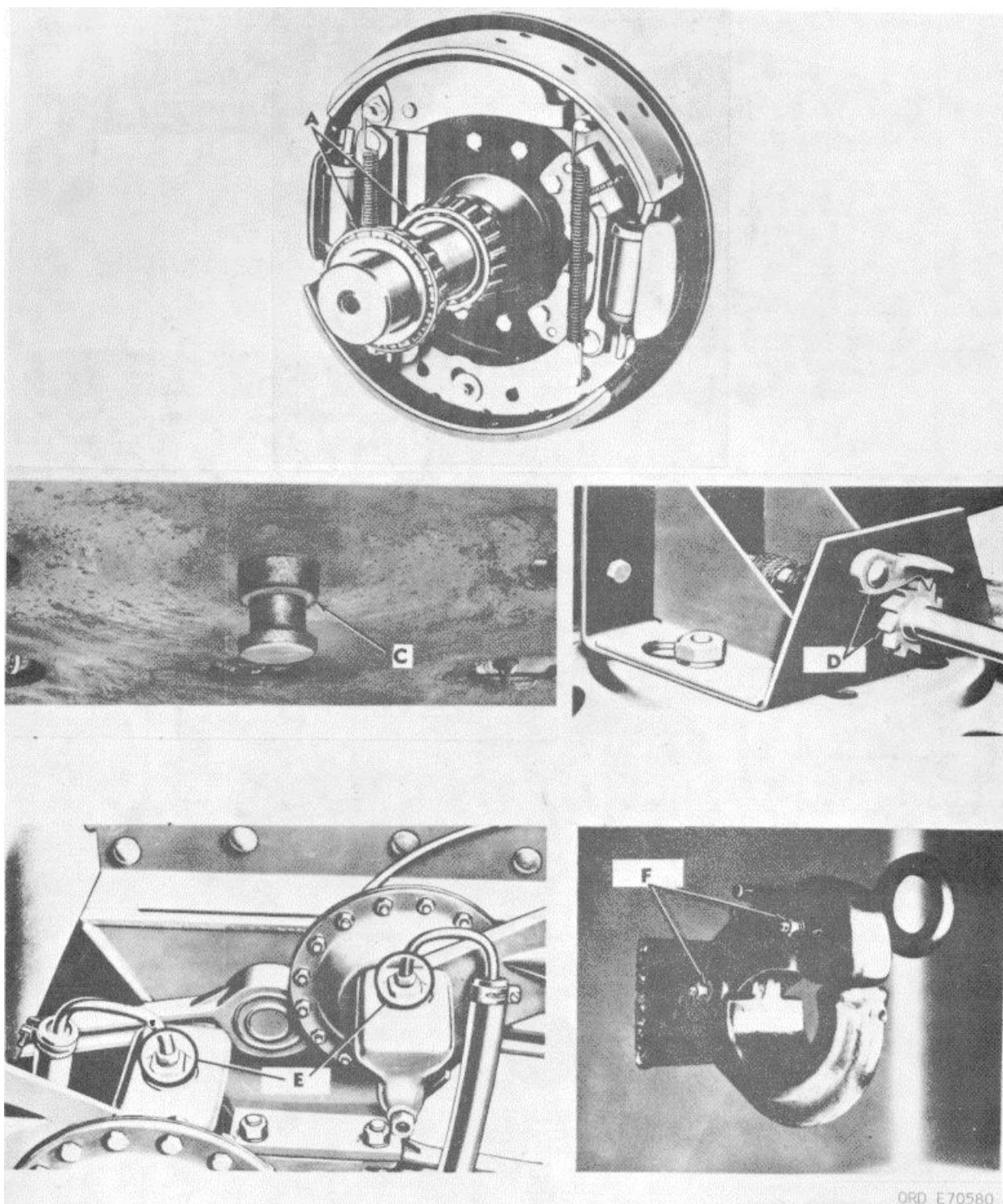


Figure 3-2. Localized lubrication points

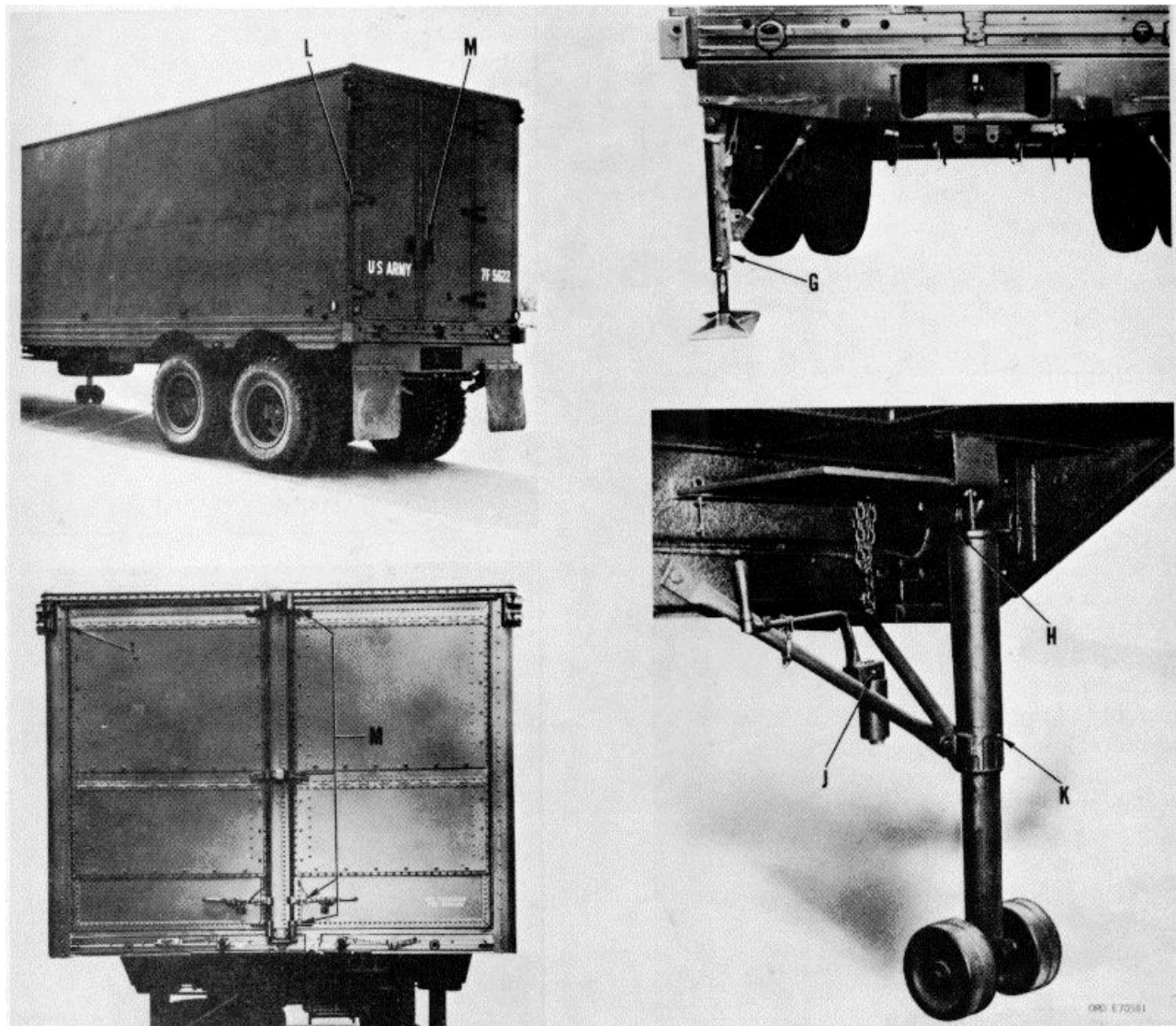


Figure 3-3. Localized lubrication points.

### 3-2. Detailed Lubrication Information

a. Service intervals specified on the lubrication order are for normal operation and where moderate temperature, humidity and atmospheric conditions prevail. Refer to paragraph 2-20c for use of lubricants under unusual conditions.

b. Keep all lubricants in closed containers and store in a clean, dry place away from external heat. Do not allow dust, dirt, or other foreign material to mix with the lubricants. Keep all lubrication equipment clean and ready to use.

### 3-3. Cleaning

a. Keep all external parts not requiring lubrication clean of lubricants. Before lubricating the equipment, wipe all lubrication points free of dirt and grease. Clean all lubrication points after lubricating to prevent accumulation of foreign matter.

b. Use dry cleaning solvent PD-680 to clean or wash grease or oil from metal parts (item 19, appendix F).

c. After parts are cleaned, rinse and dry them thoroughly. Apply a light grade of oil to all polished metal surfaces to prevent rusting.

d. When authorized to install new parts, remove any preservative materials, such as rust preventive compound or protective grease, prior to installation. Apply lubricant prescribed in lubricating order if required.

### 3-4. Service Intervals

a. The service intervals specified in fig. 3-1 are for conditions where normal operation, temperatures and humidity prevail.

b. Refer to FM 9-207 for instructions on necessary preliminary lubrication of the vehicle in cold weather areas.

### CAUTION

**A lubricant fouled by dust and sand acts as an abrasive mixture and causes rapid wear of parts**

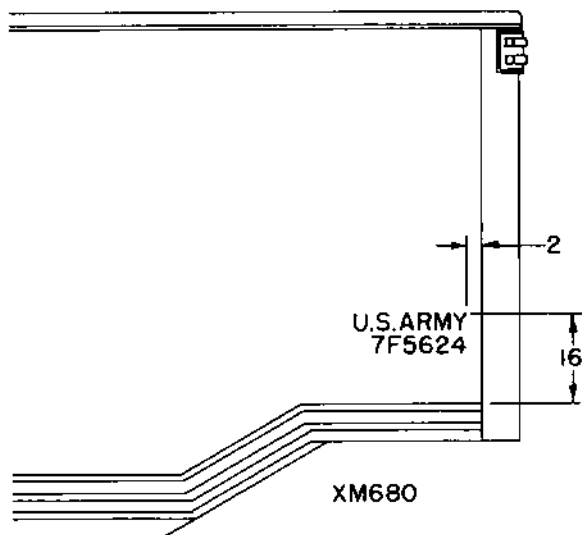
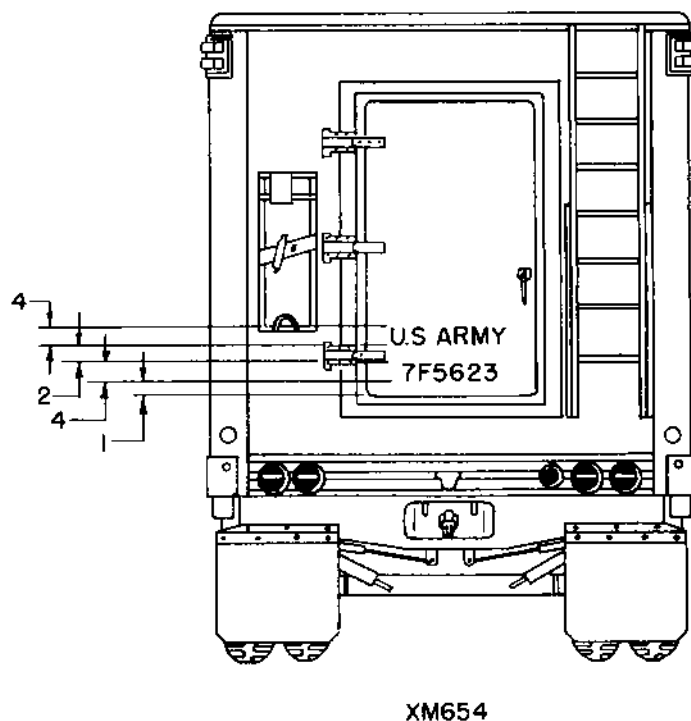
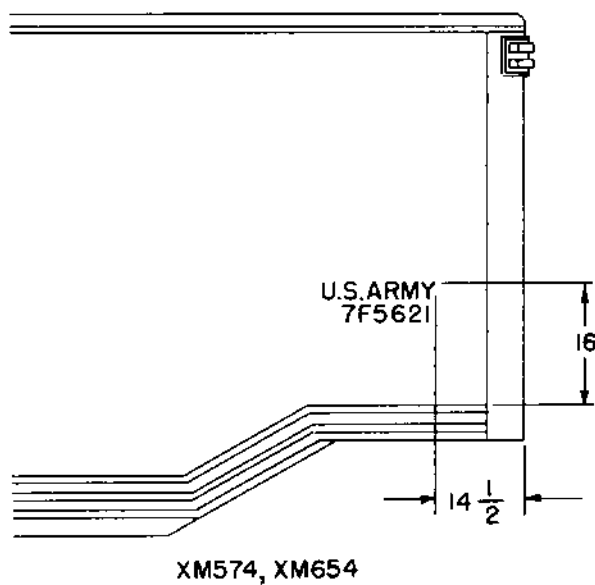
c. After operation under dusty or sandy conditions, clean and inspect all points of lubrication for fouled lubricants. Lubricate as necessary (figs. 3-1, 3-2 and 3-3).

d. After fording operation, lubricate vehicle in accordance with lubrication order (figs. 3-1, 3-2 and 3-3).

### 3-5. Painting and Identification Marking

a. *Painting.* Instructions for preparation of the material for painting, methods of painting, and materials to be used are contained in TM 43-0139. Instructions for camouflage painting are contained in TM 5-200.

b. *Identification Marking.* Re-stencil the semitrailer chassis or body if the markings are not legible. The markings consist of the agency identification, U. S. ARMY, and army serial number stenciled on lower front (each side) and on the rear of the van body (fig. 3-4). Instructions for marking are contained in TB 746-93-1. The numerals and letters are four inches in height, of simple block type with curved lines where applicable, and painted with white semigloss enamel to specification TT-E-489. Proceed as follows to re-stencil the markings.



ORD E70582

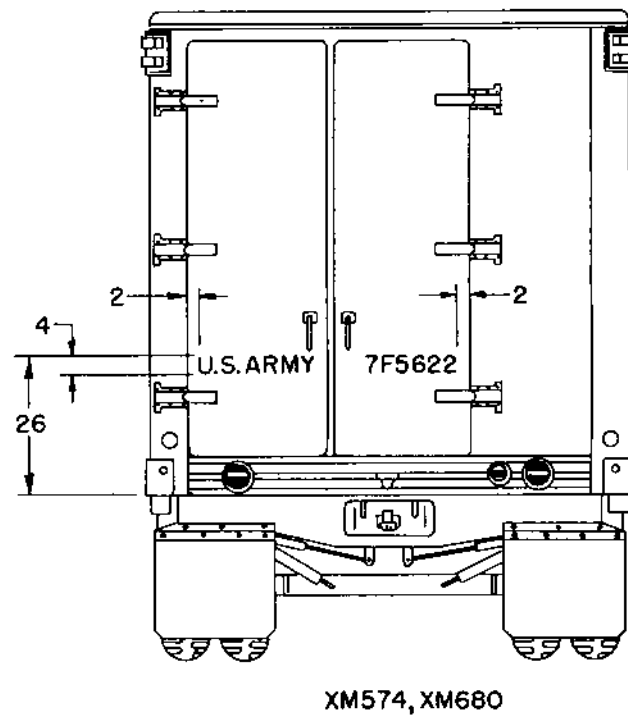


Figure 3-4. Stencil locations.

**WARNING**

To prevent injury to personnel, avoid excessive breathing of vapors. All cleaning and stenciling procedures must be performed in a well ventilated room or outdoors. A fire extinguisher must be positioned near the work area.

- (1) Remove oil and grease from equipment.
- (2) Apply paint to stencil with dabbing motion.
- (3) Remove stencil and fill in spaces to provide for continuous lines in the letters and numerals.
- (4) Allow paint to dry for 24 hours.

## Section II. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

### 3-6. Maintenance Forms and Records

Every mission begins and ends with the paperwork. There isn't much of it, but you have to keep it up. The forms and records you fill out have several uses. They are a permanent record of the services, repairs, and modifications made on your vehicle. They are reports to organizational maintenance and to your Commander, and they are a checklist for you when you want to know what is wrong with the vehicle after its last use, and whether those faults have been fixed. For the information you need on forms and records, see TM 38-750.

### 3-7. Preventive Maintenance Checks and Services

*a.* Do your before (B) Preventive Maintenance just before you operate the vehicle. Pay attention to the Cautions and Warnings.

*b.* During checks and services (D) of Preventive Maintenance will be performed while the equipment and/or its component systems are in operation.

*c.* Do your after (A) Preventive Maintenance right after operating the vehicle. Pay attention to Cautions and Warnings.

*d.* Do your weekly (W) Preventive Maintenance weekly.

*e.* Do your monthly (M) Preventive Maintenance once a month.

*f.* If something doesn't work, troubleshoot it with the instructions in this manual or notify your supervisor.

*g.* Always do your Preventive Maintenance in the same order so it gets to be a habit. Once you've had some practice, you'll spot anything wrong in a hurry.

*h.* If anything looks wrong and you can't fix it, write it on your DA Form 2404. If you find something seriously wrong, report it to organizational maintenance right now.

*i.* When you do your Preventive Maintenance, take along the tools you need to make all the checks. You always need a rag or two.

**WARNING**

Dry cleaning solvent used to clean parts is potentially dangerous to personnel and property. Do not use near open flame or excessive heat. Flash point of solvent is 138°F (44.6°C).

(1) *Keep it clean.* Dirt, grease, oil and debris only get in the way and may cover up a serious problem. Clean as you work and as needed. Use safety solvent (item 19, appendix F) on all metal surfaces. Use soap and water when you clean rubber or plastic material.

(2) *Bolts, nuts and screws.* Check them all for obvious looseness, missing, bent or broken condition. You can't try them all with a tool, of course, but look for chipped paint, bare metal, or rust around bolt heads. If you find one you think is loose, tighten it, or report it to organizational maintenance if you can't tighten it.

(3) *Welds:* Look for loose or chipped paint, rust, or gaps where parts are welded together. If you find a bad weld, report it to organizational maintenance.

(4) *Electric wires and connectors.* Look for cracked or broken insulation, bare wires, and loose or broken connectors. Tighten loose connectors and make sure the wires are in good shape.

(5) *Hoses and fluid lines* Look for wear, damage and leaks. Make sure clamps and fittings are tight. Wet spots show leaks, of course, but a stain around a fitting or connector can mean a leak. If a leak comes from a loose fitting or connector, tighten it. If something is broken or worn out, report it to organizational maintenance.

*j.* It is necessary for you to know how fluid leakage affects the status of your vehicle. The following are definitions of the types/classes of

leakage you need to know to be able to determine the status of your vehicle. Learn to be familiar with them and remember - when in doubt, notify your supervisor.

### CLASS III

Leakage or fluid great enough to form drops that fall from the item being checked/inspected.

### CAUTION

**Equipment operation is allowable with minor leakages (Class I or II). Of course, consideration must be given to the fluid capacity in the item/system being checked/inspected. When in doubt, notify your supervisor.**

### Leakage Definitions for Crew/Operator PMCS

**CLASS I** Seepage of fluid (as indicated by wetness or discoloration) not great enough to form drops.

**CLASS II** Leakage of fluid great enough to form drops but not enough to cause drops to drip from item being checked/inspected.

Table 3-1. Operator/Crew Preventive Maintenance Checks and Services

						B - Before	D - During
						A - After	W - Weekly
						M - Monthly	
ITEM NO	INTERVAL					ITEM TO BE INSPECTED	
	B	D	A	W	M	PROCEDURE: Check for and have repaired, filled, or adjusted as needed	Equipment is not ready/available If:
1	•			•		<b>TIRES</b> Gage tires for correct pressure	Tires are flat or damaged
2	•					Inspect for cuts, punctures, or other unusual wear or damage	
3	•					<b>WHEELS</b> Check that wheel stud nuts & hub cap bolts are present and securely tightened	Wheel studs nuts/hub cap bolt are loose or missing
4	•					<b>BRAKE HOSES</b> Inspect hose couplings for damage Inspect hoses for damage or deterioration	Hoses/couplings missing or damaged
6	•					<b>ELECTRICAL SYSTEM</b> Inspect electrical intervehicular connector for damage.	Air reservoir is loose
7				•		Visually inspect electrical wiring for cuts, breaks, or any other damage	
8				•		<b>AIR FILTER</b> Drain air filters (if provided)	
9		•				<b>AIR BRAKE RESERVOIR</b> Check that reservoir mounting hardware is secure	
10			•			Drain condensation from reservoir	Spring assemblies damaged missing parts
11					•	<b>SPRINGS</b> Inspect springs for abnormal sag, broken or shifted leaves, loose or missing rebound clips, pins, U-bolts, safety nuts, or bolts	
12	•					<b>AIR SUSPENSION SYSTEM</b> Check air spring inflation missing parts	Air suspension system damaged or
13	•					Check for loose or broken parts	
14	•					Drain condensation from air reservoir	
15	•					<b>AIR MOUNTED FIFTH WHEEL KING PIN</b> Check air spring inflation	
16	•					Check for loose or broken parts	
17	•					Drain condensation from air reservoir	

Table 3-1. Operator/Crew Preventive Maintenance Checks and Services - Continued

B - Before      D - During      A - After      W - Weekly      M - Monthly

ITEM NO	INTERVAL					ITEM TO BE INSPECTED PROCEDURE: Check for and have repaired, filled, or adjusted as needed	Equipment is not ready/available If:	
	B	D	A	W	M			
18	•					BRAKES Observe operation of brakes Note any unsatisfactory operation (grabbing, pulling, or slow or spongy operation)	Brakes do not operate or do not operate properly	
19			•			FIFTH WHEEL/ KINGPIN Observe how semitrailer tracks while being towed In a straight line Note any side pull, wander, or shimmy.		
20	•	HEEL HUBS				BRAKE DRUMS/ WHEEL HUBS Cautiously feel drums and hubs for over-heating. Report overheating to organi-zational maintenance.		Brake drums overheating
21	•					BODY Wipe off vehicle, wash if necessary.		
22	•					Inspect body for fading of paint and for rust spots.		
23	•					Inspect body for missing or damaged reflectors and/or operating lights.		
24	•					Check to insure that publications, basic issue tools & equipment are present & properly stored.		
Section III. TROUBLESHOOTING								

**3-8. Scope**

a. This section contains troubleshooting information for locating and correcting most of the operating troubles which may develop in the semi-trailer. Each malfunction for an individual component, unit or system is followed by a list of tests or inspections which will help you to determine the corrective actions to take.

b. This manual cannot list all malfunctions that may occur, nor all tests or inspections and corrective actions. If a malfunction is not listed or is not corrected by listed corrective actions, notify your supervisor.

c. Table 3-2 lists the common malfunctions which you may find during the operation or maintenance of the semitrailer or its components. You should perform the tests/inspections and corrective actions in the order listed.

Table 3-2. Troubleshooting

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION
<b>ELECTRICAL SYSTEM</b>
1. ALL LAMPS FAIL TO LIGHT.
Step 1. Check for loose ground connections at light

Table 3-2. Troubleshooting - Continued

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION
assemblies intervehicular cable receptacle. Tighten ground connection as required
Step 2. Check to see that intervehicular cable is properly plugged Into receptacle Pull cable plug out of receptacle and insert properly.
Step 3. Check light switch on towing vehicle Place light switch on towing vehicle In proper mode of operation
Step 4. Inspect for dirty or corroded terminals on intervehicular cable Clean connectors, receptacle and plug (paragraph 3-3b)
2. ONE OR MORE LAMPS WILL NOT LIGHT
Step 1. Inspect for dirty or corroded terminals on intervehicular cable. Clean connections, receptacle and plug (paragraph 3-3b).
Step 2. Check for loose cable connections Tighten connections
Step 3. Check to see if rear junction connector is loose if van and forward chassis lights are ON, but all rear lights are OFF. Pull out, clean and reinsert connector, making certain socket and contacts are clean.

Table 3-2. Troubleshooting - Continued

<b>MALFUNCTION</b>	<b>TEST OR INSPECTION</b>	<b>CORRECTIVE ACTION</b>
<b>ELECTRICAL SYSTEMS - Continued</b>		
3. ALL CHASSIS LIGHTS ARE ON AND VAN CLEARANCE LIGHTS ARE OFF	Step 1. Check to see if 24-volt light connection at receptacle is loose	Pull out plug, clean and reinsert, insure that a good connection is made
	Step 2. Inspect for dirty or corroded contacts in 24-volt light receptacle	Clean contacts (paragraph 3-3b)
4. DIRECTIONAL SIGNALS INOPERATIVE	Inspect for dirty or corroded cable socket and contacts	Clean socket and contacts (paragraph 3-3b)
<b>BRAKE SYSTEM</b>		
5. BRAKES WILL NOT RELEASE	Step 1. Check to see if relay valve is in applied position	If semitrailer is coupled, wait until air pressure on towing vehicle reads normal operating pressure. If semitrailer is uncoupled, open air reservoir drain cock
	Step 2. Inspect intervehicular air hose connections	Connect hose(s) properly
	Step 3. Check air reservoir drain cock	Close air reservoir drain cock
	Step 4. Check to see if shutoff valves on towing vehicle are closed	Open shutoff valves on towing vehicle
	Step 5. Inspect intervehicular air for restrictions	Check intervehicular air lines for kinks, bends, or restriction, and straighten
6. NO BRAKES OR WEAK BRAKES	Step 1. Check to see if intervehicular air lines are properly connected	Connect air lines properly
	Step 2. Check for low air pressure	Inspect air supply lines for leaks. Notify organizational maintenance if leaks are found or suspected
7. SLOW BRAKE APPLICATION OR SLOW RELEASE		Notify organizational maintenance
8. GRABBING BRAKES	Check air system for moisture	Open drain cock on air reservoir and drain moisture

Table 3-2. Troubleshooting - Continued

<b>MALFUNCTION</b>	<b>TEST OR INSPECTION</b>	<b>CORRECTIVE ACTION</b>
<b>SUSPENSION SYSTEM</b>		
9. SEMITRAILER SAGS TO ONE SIDE	Step 1. Check tires to see if air pressure is low or uneven	Inflate tires to correct pressure (paragraph 3-18b)
	Step 2. Check to see if load in semitrailer is unevenly distributed	Distribute load evenly
10. EXCESSIVELY WORN, SCUFFED, OR CUPPED TIRE(S)	Step 1. Check for improper tire pressure	Inflate to correct pressure (paragraph 3-18b)
	Step 2. Inspect wheels for looseness	Tighten wheel stud nuts
<b>AIR SUSPENSION SYSTEM</b>		
11. ALL STAR SPRINGS FLAT	Check air pressure	Build up air pressure to 65 psi
12. AIR SPRINGS FLAT	Build up air pressure to 65 psi	WHEELS, HUBS, BEARINGS, AND TIRES
13. NOISY WHEELS	Inspect wheels for looseness	Tighten wheel stud nuts
14. WOBBLY WHEELS	Inspect wheels for looseness	Tighten wheel stud nuts
15. ABNORMAL TIRE WEAR	Step 1. Check tires for proper inflation	Inflate tires to correct pressure (paragraph 3-18b)
	Step 2. Inspect tires to see if they are properly matched	Remove unmatched tire and replace with one that matches
16. AIR LEAKAGE FROM TIRES	Step 1. Inspect valve core for damage or looseness	Tighten or replace valve core
	Step 2. Check tire for puncture	Replace punctured tire with spare (paragraphs 2-9 and 3-18)
<b>LEVELING JACK</b>		
17. ERRATIC OPERATION.	Check for adequate lubrication	Lubricate in accordance with lubrication order (figs 3-1 and 3-3)



## Section IV. MAINTENANCE PROCEDURES

## 3-9. Marker Clearance Light (fig. 7).

**NOTE**

All 24-volt lights are controlled by the electrical system of the towing vehicle. A master switch on the towing vehicle controls the service and blackout modes of operation of the lights. Place this switch in the proper position prior to testing the lamps after installation. Lamps will not illuminate if towing vehicle switch is in the OFF position.

*a. Lamp Removal.*

(1) Remove two screws (2) which fasten body (3) of the clearance light to plate (7).

(2) Remove body (3) with lens (4) or (11) from plate (7).

(3) Press in on lamp (6), turning counterclockwise to remove from socket.

*b. Lamp Installation.*

(1) Insert lamp (6) into socket. Press in and turn clockwise. Test lamp by turning on switch in towing vehicle.

**NOTE**

The word **BOTTOM** is printed on blackout lens (11). Make certain lens is positioned properly in body during installation.

(2) Install body (3) with lens (4) or (11) over lamp (6) and secure to mounting plate (7) with two screws (2).

**3-10. Blackout Stoplight Assembly (all models except XM822, XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913)**

*a. Lamp Removal (fig. 8).*

(1) Remove two screws (11) which secure door assembly (10) to housing (4) blackout stoplight Lift off door assembly.

(2) Push in on lamp (8) and turn counterclockwise to remove.

*b. Lamp Installation (fig. 8).*

(1) Insert lamp (8) in socket, push in, and turn clockwise. Test lamp by turning on BLACKOUT switch in towing vehicle and depressing brake pedal.

(2) Note word TOP above lens and position door assembly (10) and gasket (9) on housing (4). Secure with two screws (11).

**3-11. Stoplight, Taillight Assembly (all models except XM822, XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913)**

*a. Lamp Removal (fig. 9)*

(1) Loosen six captive screws on door assembly (6). Remove preformed packing (5) if defective.

(2) Push in on lamp (4) or (7) and turn counterclockwise to remove. All taillight lamps are three candelpower, 24-to 28-volt lamps except the service stop lamp (4) which is a 32 candelpower 24- to 28-volt lamp.

*b. Lamp Installation (fig. 9)*

(1) Insert lamp (4) or (7) in socket, push in and turn clockwise. Test service tail lamp (7) by turning on service switch on towing vehicle. Operate brake pedal on towing vehicle to test stoplight lamp (4). Operate turn signal lever in towing vehicle to test operation of turn signal lamp (7). Test blackout lamp by placing towing vehicle switch in the BLACKOUT mode of operation and then operating the proper switch, brake pedal or turn signal lever.

(2) Position preformed packing (5) and door (6) on light body (2). Tighten the captive screws.

**3-12. Composite Stoplight-Taillight Assembly, XM822 (after serial no. S2669), XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913**

*a. Lamp Removal (fig. 10)*

(1) Loosen six captive screws on lens assembly (2). Remove preformed packing (3) if defective.

(2) Push in on lamp (4), (5) or (12) and turn counterclockwise to remove.

*b. Lamp Installation (fig. 10)*

(1) Insert lamp (4), (5) or (12) in socket, push in and turn clockwise. Test lamp following the procedure of paragraph 3-11b (1).

(2) Position preformed packing (3) and lens assembly (2) on body (11). Tighten captive screws.

**3-13. ICC Stoplight, XM654**

*a. Lamp Removal (fig 11).*

(1) Carefully pry out retaining ring (7) and remove lens (6) and gasket (5).

(2) Push in on lamp (4) and turn counterclockwise to remove.

*b. Lamp Installation (fig. 11).*

(1) Insert lamp (4) in socket (8), push in and turn clockwise. Test lamp, following procedure of paragraph 3-11b (1).

(2) Position gasket (5) and lens (6) and secure in position with retaining ring (7).

**3-14. Dome Light, 24-Volt (all models except XM912, XM913)**

*a. Lamp Removal (fig. 12).*

(1) Loosen captive screw and open hinged cover. Remove lens (4) and rubber seal (5) if defective.

(2) Push in on lamp (7) and turn counterclockwise to remove.

*b. Lamp Installation (fig. 12).*

(1) Insert lamp (7) in socket (2), push in and turn clockwise. Test lamp by placing the toggle switch in the ON position.

(2) Position lens (4) and rubber seal (5) in hinged cover and secure to body assembly (6) with captive screw.

**3-15. Dome Light, 110-Volt, XM654, XM680, XM680E1, XM822**

*a. Lamp Removal (fig. 13).*

(1) Remove thumbscrews (9) and remove cover (7), together with gaskets (4 and 5) and lens (3).

(2) Unscrew lamp (2) and remove.

*b. Lamp Installation (fig. 13).*

(1) Screw lamp (2) into socket (13).

(2) Position lens (3) and gaskets (4 and 5) in cover (7) and secure with thumbscrews (9).

**3-16. Blackout Dome Light, 110-Volt, XM822**

*a. Lamp Removal (fig. 14).*

(1) Loosen captive cover screw and open cover.

(2) Press in on bayonet type lamp (6) and turn one-fourth of a turn counterclockwise to remove.

*b. Lamp Installation (fig. 14).*

(1) Insert lamp (6) into socket (5) and turn one-fourth of a turn clockwise.

(2) Position cover and secure with captive screw.

**3-17. Fluorescent Lighting Fixture, XM822**

*a. Lamp Removal (fig. 15)*

**WARNING**

**When handling fluorescent lamp, use care to prevent breakage and possible injury to personnel.**

(1) Remove cover screws and open cover.

(2) Rotate lamp (2) one-fourth of a turn and remove from socket.

*b. Lamp Installation (fig. 15).*

(1) Insert lamp (2) in socket and turn one-fourth of a turn.

(2) Secure cover with screws.

**3-18. Wheels and Tires**

*a. Description*

(1) Wheels. The wheels for the semitrailer chassis are offset disk-type rim with split-type retaining side ring. Outer cap nuts for the right wheels (marked R) have right hand threads and those for the left wheel (marked L) have left hand threads. The studs are similarly marked. Nuts must be turned in the opposite direction to the normal forward rotation of the wheel to be loosened or removed.

(2) Tires. Tires are of military pneumatic type, nondirectional, cross country tread design, size 9.00 by 20, 8-ply rating.

*b. Removal of Wheel and Tire Assemblies from Hub (fig. 3-5).*

(1) Apply brakes to the chassis wheels. If chassis is attached to the towing vehicle, wheels may be locked by disconnecting emergency air connections.

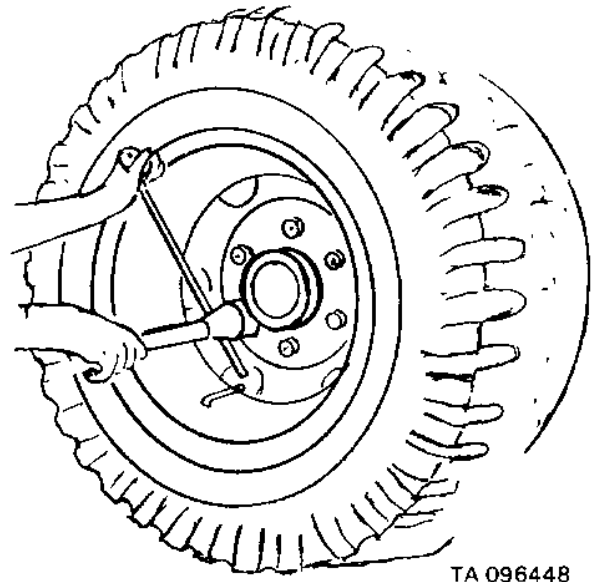


Figure 3-5. Removing and installing wheel and tire.

(2) Loosen six outer wheel nuts, using a wheel nut wrench.

(3) Raise vehicle and remove wheel nuts. Remove outer wheel.

(4) Remove inner six cap nuts and inner wheel in same manner.

c. *Installation of Wheel and Tire Assemblies on Hub (fig. 3-5).*

(1) Slide inner wheel on hub over six studs with convex side of wheel facing out.

(2) Install six inner wheel cap nuts. Alternately tighten nuts on opposite sides to insure even tightness of all nuts.

(3) Slide outer wheel on hub over six inner cap nuts with convex side of wheel facing in and against the inner wheel. Make certain that valve stem for outer wheel is not aligned with valve stem of inner wheel.

(4) Install six outer wheel nuts and alternately tighten nuts on opposite sides to insure even tightness of all nuts.

(5) Check nuts before lowering wheel to ground to make certain they are all firmly seated. After wheel is on the ground, tighten nuts with a torque wrench to 450-500 lb ft.

(6) Inflate tires to 50 psi for highway driving, 30 psi for cross-country driving, and 20 psi for driving in soft sand.

## CHAPTER 4 ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

### Section I. SERVICE UPON RECEIPT OF MATERIAL

#### 4-1. General

When a new, used, or reconditioned semitrailer is first received, it is the responsibility of the officer in charge to determine whether the semitrailer has been properly prepared for service by the supplying organization and to be sure it is in condition to perform its function. For the purpose, inspect all assemblies, subassemblies, and accessories to be sure they are properly assembled, secure, clean, and correctly adjusted and/or lubricated. Check all tools and equipment to be sure every item is present, in good condition, clean, and properly mounted or stowed.

#### 4-2. Inspecting and Servicing the Equipment

##### *a. Preliminary Services.*

##### *(1) General procedures.*

(a) If any exterior surface is coated with rust preventive compound, remove it with approved cleaning solvent (paragraph 3-3b).

(b) Read DA Form 9-1 (Materiel Inspection Tag) and observe all precautions checked

thereon.

##### *(2) Special procedures*

(a) Perform the preventive maintenance checks and services (table 4-1).

(b) Lubricate all lubrication points illustrated in the lubrication order (fig. 3-1), regardless of interval.

(c) Schedule "S" semiannual preventive maintenance service on DA Form 2403 (Preventive Maintenance Roster).

(d) Deficiencies which involve unsatisfactory design will be reported in accordance with TM 38-750.

(e) Perform a "break-in" of 25 miles at a maximum speed of 30 mph.

*b. Before-Operation Service* This is a brief service to ascertain that the semitrailer is ready for operation; it is mainly a check to see if conditions affecting the vehicle's readiness have changed since the last after-operating service. Refer to table 3-1 preventive maintenance service and to paragraphs 2-2 through 2-4.

### Section II. MOVEMENT TO A NEW WORKSITE

#### 4-3. General

- a.* Disconnect power to semitrailer.
- b.* Close all doors.
- c.* Connect semitrailer to towing vehicle.
- d.* Retract landing gear legs.
- e.* Drive semitrailer to a new worksite.

(2) Use of the 40K-Loader and palletizing are left to the discretion of the loadmaster.

(3) Two persons are required to handle the loading kit and perform the operations.

##### *b. Components of Aircraft Loading Kit.*

(1) One stowage box (PN 11646333) located underneath the left side of the semitrailer (fig. 65).

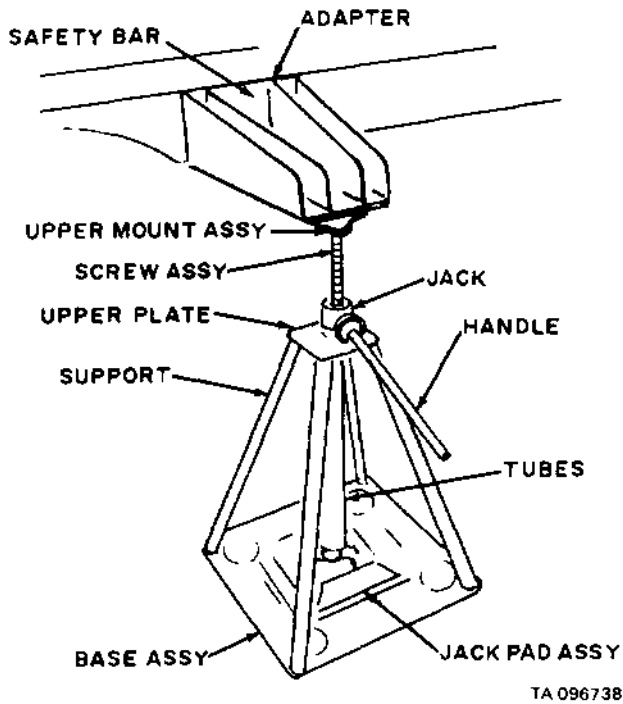
(2) Two adapter assemblies (PN 11681226).

(3) Two loading jack assemblies, consisting of two handles and two jacks with two inner tubes, two screw assemblies, two upper mount assemblies, two outer tubes, and two jack pad assemblies (fig. 4-1).

#### 4-4. Air Shipment of XM844, XM845

##### *a. General.*

(1) The aircraft loading kit for the XM844 and XM845 semitrailers has been designed for the 25K-Loader to load the semitrailer in the C141 Aircraft.



TA 096738

Figure 4-1. Aircraft loading kit installed.

(4) Two loading jack stand assemblies, consisting of two upper plate assemblies, eight supports and two base assemblies.

(5) Tool box assembly (refer to Basic Issue Items, appendix B, for listing of tools included in assembly).

c. *Loading Procedure.*

(1) Place towing vehicle, semitrailer and K-Loader on runway near C141 aircraft. Apply brakes. Towing vehicle must remain attached as long as loading jacks are in use.

**CAUTION**

Adapters are very heavy. Use caution in handling them.

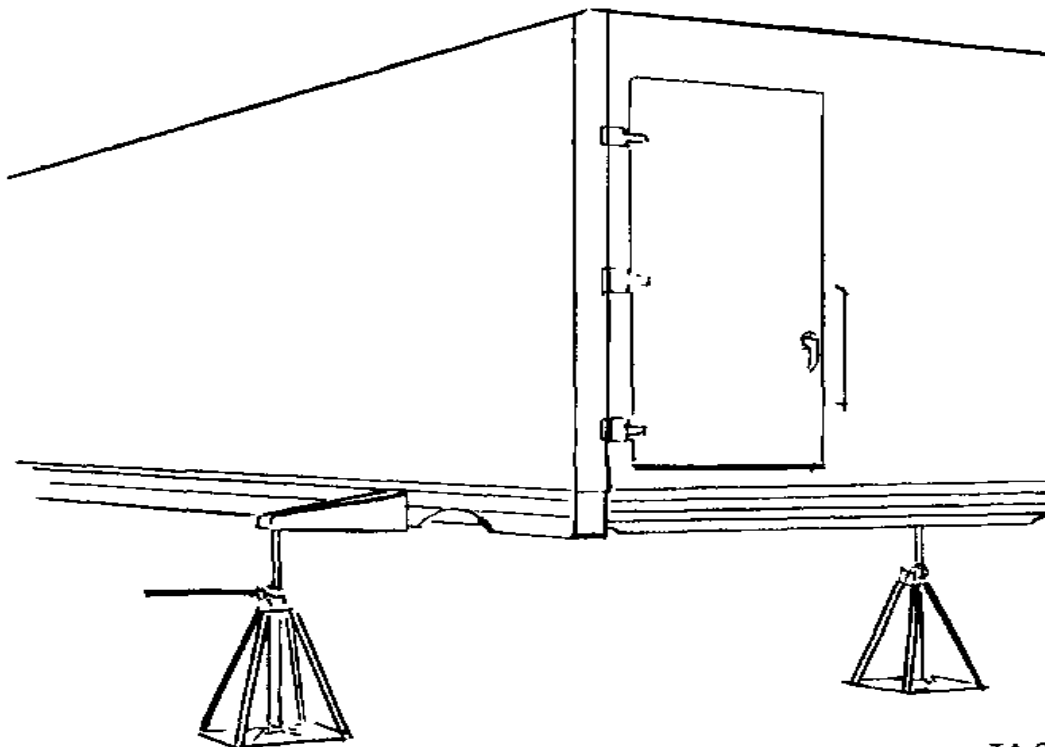
(2) Remove contents from aircraft loading kit stowage box.

(3) Remove the stowage box and set it aside for loading in aircraft.

(4) Pull out curbside and roadside lifting eyes between the front and rear wheels.

(5) Hang adapters on lifting eyes and secure them with safety bars. Make sure they are seated properly on the sidewalls.

(6) Position jacks and stands under adapters (fig. 4-2). Make certain jacks are perpendicular.



TA 096461

Figure 4-2. Loading jacks and stands in position.

(7) Lower landing gear legs so that wheels contact the ground.

(8) Remove six cotter pins, nuts, washers and screws securing dolly assembly to the van body. Place the attaching hardware in the stowage box.

(9) Disconnect both air hoses and the 24-volt plug from the subbase.

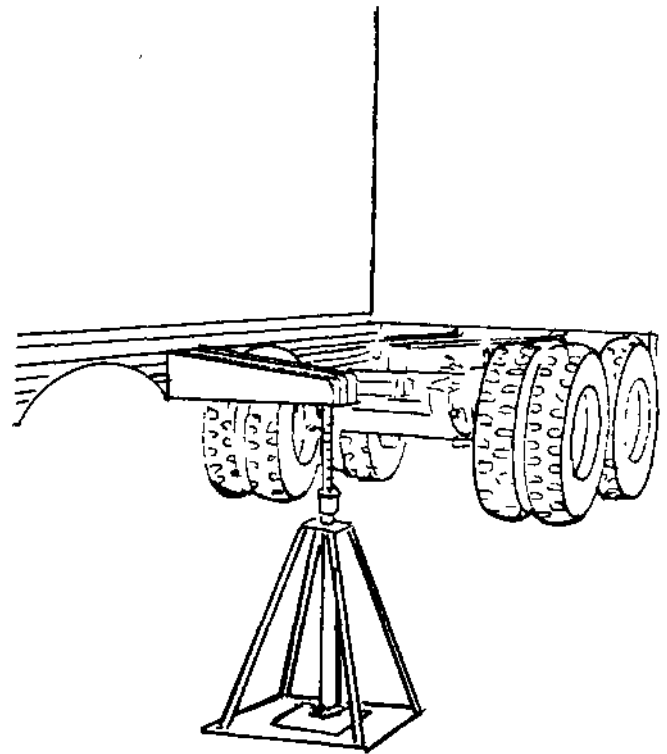
### CAUTION

Personnel at this point should stay clear of the underside of the semitrailer until it is securely resting on the K-Loader.

(10) Lift rear van body end (both sides simultaneously) to a height permitting removal of the dolly toward the rear. Make certain aircraft loading jacks do not tilt. Should this occur, stop the lifting operation, reposition jacks, and repeat the lifting operation.

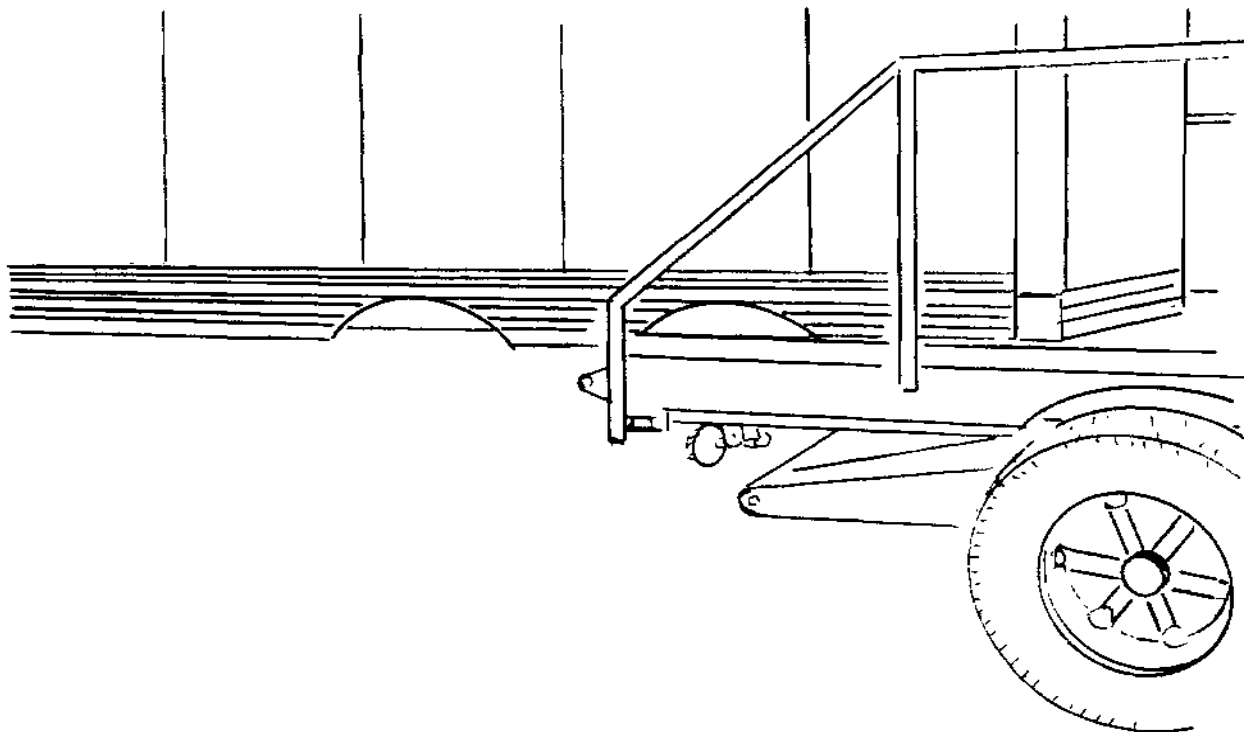
(11) Pull dolly toward the rear from underneath van body and set it aside for aircraft loading (fig. 4-3).

(12) Move the K-Loader under the van body until it almost contacts the landing gears. Make sure that the inner skids of the van body match the rollers of the K-Loader or use pallets (fig. 4-4).



TA 096637

Figure 4-4. Dolly removed from van body

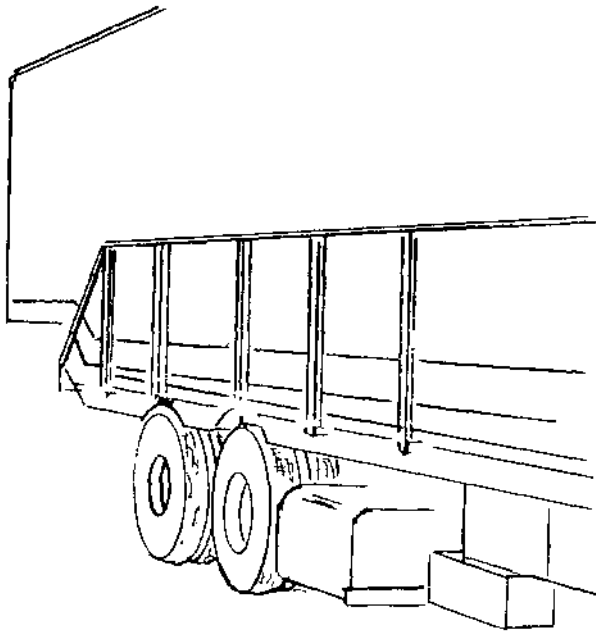


TA 096638

Figure 4-4. K-Loader supporting rear end of van body.

(13) Remove landing gears (paragraph 4-51) and set them on the K-Loader for aircraft loading.

(14) Secure van body to the K-Loader by means of the tiedowns in the sidewalls and tiedown rings provided by the Air Force (fig. 4-5).



TA 096462

Figure 4-5. Van body ready for loading on aircraft.

(15) Mount stowage box on dolly.

(16) Remove aircraft loading jacks, stands and adapters and stow them with the tool box in the stowage box.

(17) Detach towing vehicle and set it aside.

(18) Load van body and dolly on the aircraft as directed by the loadmaster.

*d. Unloading Procedure*

(1) Unload van body from aircraft to the K-Loader, making certain that stowage compartments are accessible.

(2) Secure van body to K-Loader by means of the tiedown provisions in the sidewalls and tiedown rings provided by the Air Force.

(3) Attach towing vehicle to van body.

(4) Lower landing gear legs so that wheels contact the ground.

(5) Remove aircraft loading kit from the various stowage areas.

(6) Pull out curbside and roadside lifting eyes between the front and rear wheels.

(7) Hang adapters on lifting eyes and secure them with safety bars. Make sure they are seated properly on the sidewalls.

(8) Position jacks and stands under adapters. Make certain jacks are perpendicular.

(9) Lift van body rear end (both sides at the same time) to a height permitting the installation of the dolly from the rear. Make certain aircraft loading jacks do not tilt. Should this occur, stop the lifting operation, reposition jacks, and repeat the lifting operation.

(10) Remove K-Loader.

(11) Insert dolly in position from the rear, lower rear end of the van body and secure dolly with six cotter pins, nuts, lock washers, and screws.

(12) Connect both air hoses and the 24-volt plug to the sub-base.

(13) Remove aircraft loading jacks, stands and adapters and stow them in the stowage compartments.

(14) Detach towing vehicle.

**4-5. Air Shipment of XM847, XM848, XM849, XM912, XM913**

*a. General*

(1) The aircraft loading kit for the XM847, XM848, and XM849 semitrailers has been designed for the 25K-Loader to load the semitrailer in the C141 aircraft. The use of the 40K-Loader and palletizing are at the discretion of the load master.

(2) The aircraft loading kit for the XM912 and XM913 semitrailers has been designed for the 40K-Loader to load the semitrailer in the C141 aircraft. The use of palletizing and utilization of the 25K-Loader are at the discretion of the load master.

(3) Two persons are required to handle the loading kit and perform the operation.

*b. Components of Aircraft Loading Kit (fig. 4-1).*

(1) Two adapter assemblies (PN11681435).

(2) Two loading jack assemblies (paragraph 4-4b (3)).

(3) Two loading jack stand assemblies (paragraph 4-4b (4)).

(4) Tool box assembly (refer to Basic Issue Items, appendix B, for listing of tools included in assembly).

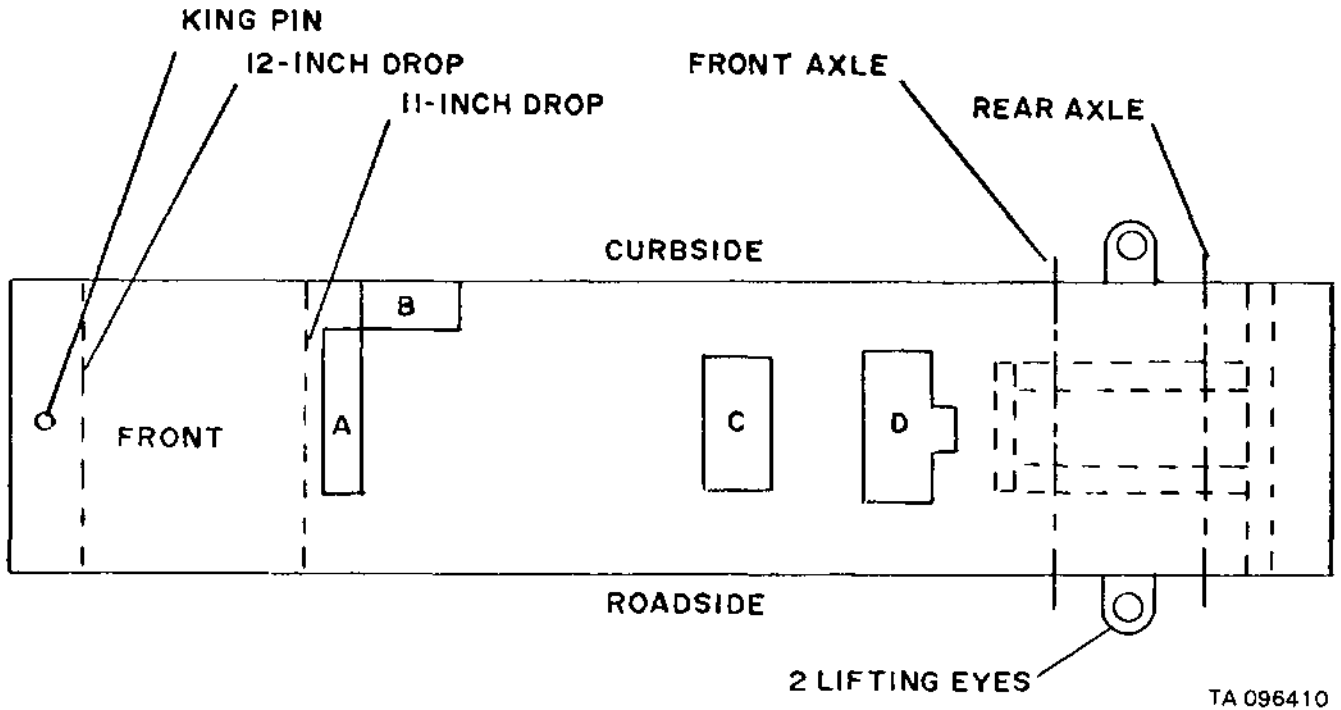
*c. Loading Procedure.*

(1) Place towing vehicle, semitrailer and K-Loader on runway near C141 aircraft. Apply brakes. Towing vehicle must remain attached as long as loading jacks are in use.

**CAUTION**

Adapters are very heavy. Use caution in handling them.

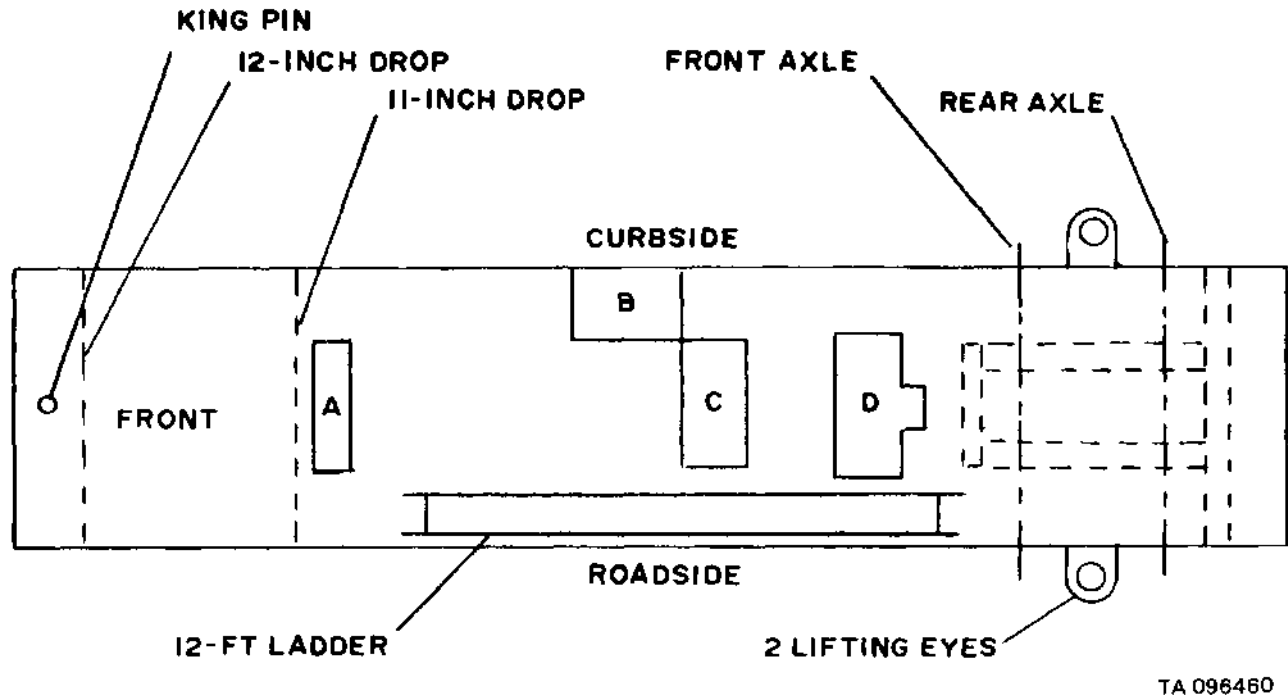
(2) Remove aircraft loading kit from the various stowage areas underneath the semitrailer (figs 4-6 and 4-7). Remove the 12-foot ladder from underneath the XM912 and XM913 semitrailers and separately stow it in the aircraft.



- A Tool kit, aircraft loading
- B Two adapter assemblies
- C Two loading jacks, two handles
- D Two jack pads, eight supports, two base assemblies, two upper plate assemblies

Figure 4-6. Location of stowage compartments, XM847, XM848, XM849.





- A Tool kit, aircraft loading  
 B Two adapter assemblies  
 C Two loading jacks, two handles  
 D Two jack pads, eight supports, two base assemblies, two upper plate assemblies

TA 096460

Figure 4-7. Location of stowage compartments, XM912, XM913.

(3) Perform steps (4) through (7) of paragraph 4-4c.

(4) Remove six cotter pins, nuts, washers, and screws securing the dolly assembly on the XM847, XM848, and XM849 semitrailers. To remove the dolly attaching hardware on the XM912 and XM913 semitrailers, remove two cotter pins, two nuts, six washers, two bolts and four screws.

(5) Perform steps (9) through (11) of paragraph 4-4c.

(6) Move the K-Loader under the van body, making sure that the inner skids of the van body match the rollers of the K-Loader, leaving the aircraft loading kit stowage compartments accessible (fig. 4-4).

(7) Remove aircraft loading jacks, stands and adapters and stow them along with the tool box in their respective stowage compartments underneath the van body (figs. 4-6 and 4-7).

(8) Move K-Loader forward until it almost contacts the landing gears.

(9) Secure van body to the K-Loader by means of the tiedown provisions in the sidewalls and tiedown rings provided by the Air Force (fig. 4-5).

(10) Swing landing gears into the horizontal position (fig. 4-5).

(11) Detach towing vehicle and set it aside.

(12) Load van body and dolly on the aircraft as directed by the loadmaster.

d. Unloading Procedure.

(1) Perform steps 1 through 3 of paragraph 4-4d.

(2) Swing landing gears to the vertical position and lower legs so that wheels contact the ground.

(3) Perform steps 5 through 11 of paragraph 4-4d.

(4) Insert dolly in position from the rear and lower rear end of van body.

(5) Secure the dolly assembly on the XM847, XM848 and XM849 semitrailers with six screws, washers, nuts, and cotter pins.

(6) Secure the dolly assembly on the XM912 and XM913 semitrailers with two bolts, washers, nuts, and cotter pins at the rear end and with four screws and washer at the front end and sides.

(7) Perform steps 12 through 14 of paragraph 4-4d.

#### 4-6. Railroad Shipment of Semitrailer

The semitrailer may be loaded on TTX car only with a cushioning or shock-mitigating device incorporated into the stanchion hitches on the sills of the car for rail shipment with CONUS.

### Section III. REPAIR PART SPECIAL TOOLS AND EQUIPMENT.

#### 4-7. Special Tools and Equipment

Special tools required for organizational maintenance are listed and illustrated in Appendix E, Section III. No special equipment is required.

#### 4-8. Maintenance Repair Parts

Repair parts that cover organizational maintenance for the semitrailer are listed and illustrated in Appendix E, Section II.

### Section IV. LUBRICATION INSTRUCTIONS

#### 4-9. General

- a. This section contains only those lubrication procedures that are not covered in the lubrication order.
- b. Clean and lubricate wheel bearings as specified in TM 9-214.

- c. The lubrication of all components requiring lubrication is described in this chapter during the removal and replacement procedures for those components.
- d. Maintain a record of vehicle lubrication and report any discrepancies noted during lubrication. Refer to TM 38-750 for maintenance forms and procedures to record and report any findings.

### Section V. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

#### 4-10. General

To insure that the semitrailer is ready for operation at all times, it must be inspected within designated intervals so that defects may be discovered and corrected before they result in serious damage or failure. Table 4-1 contains a tabulated listing of preventive maintenance checks and services to be performed by organizational maintenance personnel. All deficiencies and shortcomings will be recorded as well as the corrective action taken on DA Form 2404 at the earliest possible opportunity.

#### 4-11. Organizational Preventive Maintenance Checks and Services

- a. The item numbers of table 4-1 indicate the sequence of the PMCS. Perform at the intervals shown below:

- |                                 |            |
|---------------------------------|------------|
| (1) Do your (Q)                 | PREVENTIVE |
| MAINTENANCE once each 3 months. |            |
| (2) Do your (S)                 | PREVENTIVE |
| MAINTENANCE once each 6 months. |            |
| (3) Do your (A)                 | PREVENTIVE |
| MAINTENANCE once each year.     |            |

(4) Do your (B) PREVENTIVE MAINTENANCE once each two years.

(5) Do your (H) PREVENTIVE MAINTENANCE at the hour interval listed.

(6) Do your (MI) PREVENTIVE MAINTENANCE when the mileage of the vehicle reaches the amount listed.

b. If something doesn't work, troubleshoot it with the instructions in this manual or notify your supervisor.

c. Always do your preventive maintenance in the same order so it gets to be a habit. Once you've had some practice, you'll spot anything wrong in a hurry.

d. If anything looks wrong and you can't fix it, write it down on your DA Form 2404. If you find something seriously wrong, report it to direct support as soon as possible.

#### WARNING

**Dry cleaning solvent used to clean parts is potentially dangerous to personnel and property. Do not use near open flame or excessive heat. Flash point of solvent is 138°F (44.6°C).**

(1) *Keep it clean:* Dirt, grease, oil and debris only get in the way and may cover up a serious problem. Clean as you work and as needed. Use safety solvent (Item 19, Appendix F) to clean metal surfaces. Use soap and water when you clean rubber or plastic material.

(2) *Bolts, nuts and screws:* Check that they are not loose, missing, bent or broken. You can't try them all with a tool, of course, but look for chipped paint, bare metal or rust around bolt heads. Tighten any that you find loose.

(3) *Welds:* Look for loose or chipped paint, rust or gaps where parts are welded together. If you find a bad weld, report it to direct support.

(4) *Electric wires and connectors:* Look for cracked or broken insulation, bare wires and loose or broken connectors. Tighten loose connections and make sure the wires are in good condition.

(5) *Hoses and fluid lines:* Look for wear, damage and leaks. Make sure clamps and fittings are tight. Wet spots show leaks, of course, but a stain around a fitting or connector can mean a leak. If a leak comes from a loose fitting or connector, tighten it. If something is broken or worn out, either correct it or report it to direct support (refer to MAC Chart).

e. It is necessary for you to know how fluid leaks affect the status of your equipment. The following are definition of the types/classes of leakage you need to know to be able to determine the status of your equipment. Learn and be familiar with them and **REMEMBER - WHEN IN DOUBT, NOTIFY YOUR SUPERVISOR.**

Leakage definitions for Organizational PMCS

**CLASS I** Seepage of fluid (as indicated by wetness or discoloration) not great enough to form drops.

**CLASS II** Leakage of fluid great enough to form drops but not enough to cause drops to drip from the item being checked/inspected.

**CLASS III** Leakage of fluid great enough to form drops that fall from the item being checked/inspected.

#### 4-12. Specific Procedures

Specific procedures for performance of preventive maintenance checks and services are given in table 4-1.

Table 4-1. Organizational Preventive Maintenance Checks and Services

		Q=Quarterly S=Semiannually						A=Annually B=Biennially		H=Hours MI=Miles	
ITEM NO	INTERVAL						Item To Be Inspected	Procedures			
	Q	S	A	B	H	MI					
1	•						TIRES/WHEELS	Gage for correct pressure Inspect for cuts, punctures, or other unusual wear or damage Inspect tires for rocks or other foreign objects, missing valve caps, or damaged valve stems. Check wheels for loose or missing lug nuts.			
2	•										
3	•										
4	•										
5	•						BRAKE/HYDRAULIC LINES	Visually inspect for any indication of oil or brake fluid leaks. Inspect for leaks in air brake system by stopping towing vehicle when air pressure is at maximum and verifying that there is no appreciable drop in air pressure within one minute.			
6	•										
7	•						INTERVEHICULAR CONNECTORS	Check electrical connector, service brake, and emergency brake couplings for damage			
8	•						ELECTRICAL SYSTEM				
4-8											

Table 4-1. Organizational Preventive Maintenance Checks and Services - Continued

		Q=Quarterly S=Semiannually						A=Annually B=Biennially		H=Hours MI=Miles			
ITEM NO	INTERVAL						Item To Be Inspected	Procedures					
	Q	S	A	B	H	MI							
9		•					LANDING GEAR	With semitrailer coupled to towing vehicle, check operation of landing gear.					
10		•					BODY	Inspect for loose or damaged hardware.					
11		•					BRAKES	Visually inspect for Indications of rust.					
12	•							During road operation, make several stops, observe any side pull, noise, chatter, or other unusual condition. Apply semitrailer brakes only, verify that brakes operate properly.					
13	•						BRAKE DRUMS AND HUBS	Following operation, cautiously feel brake drums and hubs. An overheated drum/hub may indicate an improperly adjusted, defective, or dry wheel bearing or dragging brake. An unusually cool drum/hub may indicate an inoperative brake.					
14		•					SPRINGS/SUSPENSION	Inspect springs suspension and torque rods for loose or broken components.					
15		•						Tighten spring U-bolts, leaf clips, all assemblies, and mounting bolts					
16			•				WHEEL BEARINGS	Clean wheel bearings and repack.					
17	•						KINGPIN, FIFTH WHEEL	Inspect kingpin and upper fifth wheel plate for damage. Tighten all mounting hardware Lubricate as necessary.					
18	•					First 1000 & 3000	AIR SUSPENSION SYSTEM	Inspect for loose nuts, bolts, and air connections Tighten as necessary.					
19	•					First 1000 & 3000		Check air springs for equal inflated firmness					
20	•					First 1000 & 3000		Check ride height dimension					
21	•							Check suspension system for broken or abnormally worn parts					
22	•							Block up rear of semitrailer until tires clear ground and suspension is fully extended Insure that air springs fully deflate					

4-9

Table 4-1. Organizational Preventive Maintenance Checks and Services - Continued

Q=Quarterly S=Semiannually							A=Annually B=Biennially		H=Hours MI=Miles	
ITEM NO		INTERVAL					Item To Be Inspected	Procedures		
	Q	S	A	B	H	MI				
23	•						AIR MOUNTED FIFTH WHEEL KINGPIN	With rear of semitrailer blocked as in item 22, inspect air spring for wear at connection points. Check shock absorbers for oil leakage or worn rubber bushings. Check for wear resulting from insufficient clearance around air springs, shock absorbers, and tires.		
24	•							Check shock absorbers for oil leakage or worn rubber bushings.		
25	•							Inspect hinge bushings for wear.		

AIR MOUNTED FIFTH WHEEL KINGPIN

**Section VI. TROUBLESHOOTING****4-13. Scope**

a. This section contains troubleshooting information for locating and correcting most of the operative troubles which may develop in the semitrailer. Each malfunction for an individual component, unit or system is followed by a list of tests or inspections which will help you to determine corrective actions to take. You should perform the tests/inspections and corrective actions in the order listed.

b. This manual cannot list all malfunctions that may occur, nor all tests or inspections and corrective actions. If a malfunction is not listed or is not corrected by instead corrective actions, notify your supervisor.

c. Table 4-2 lists the common malfunctions which you may find during the operation or maintenance of the semitrailer or its components.

Table 4-2. Troubleshooting - Continued

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
ELECTRICAL SYSTEM		
1. ALL 24-VOLT LIGHTS FAIL TO OPERATE		
Step 1	Inspect intervehicular cable for proper connection in all steps, check for loose ground connection	Connect cable properly. Tighten ground
Step 2	Inspect for dirty or corroded terminals in intervehicular cable	Clean terminals in plug and receptacle
Step 3	Check to see that light switch on towing vehicle is in desired position	Place towing vehicle light switch in proper mode of operation.

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
ELECTRICAL SYSTEMS - Continued		
Step 4	Check to see that current is flowing from towing vehicle.	Check towing vehicle cables and circuit breakers.
Step 5	Check wiring harness for short circuit	Check cable for bare spots Repair if necessary.
Step 6	Check light switch on towing vehicle.	Replace towing vehicle light switch if defective.
2. ONE OR MORE 24-VOLT LAMPS WILL NOT LIGHT		
Step 1	Inspect for burned out lamp.	Replace defective lamp (paragraphs 3-9 through 3-14).
Step 2	Inspect for dirty or corroded cable contacts in sleeves or lamp sockets.	Remove lamps and clean contacts
Step 3	Check for broken or loose connections	Tighten, repair, or replace as necessary
Step 4	Check to see if light assembly is defective	Replace defective light assembly (paragraphs 4-22 through 4-27)
Step 5	Inspect intervehicular cable for dirty or corroded terminals	Clean receptacle and plug
3. DIM OR FLICKERING 24-VOLT LIGHTS		
Step 1	Clean to see if lamp is defective	Replace defective lamp (paragraphs 3-9 through 3-14).
Step 2	Inspect for poor or loose ground connections	Clean ground cable terminal and tighten connections.
Step 3	Inspect for loose, dirty, or corroded terminals	Clean and tighten terminals

Table 4-2. Troubleshooting - Continued

MALFUNCTION		TEST OR INSPECTION	CORRECTIVE ACTION
		ELECTRICAL SYSTEM - Continued	
	Step 4	Check for dirty or corroded lamp sockets, cable connectors or harness contacts.	Clean as necessary.
4.	DIRECTIONAL SIGNALS INOPERATIVE.		
	Step 1.	Check for defective flasher or switch in towing vehicle	Replace defective part
	Step 2.	Check light assembly	Replace defective light assembly (paragraph 4-23 or 4-25).
	Step 3.	Inspect for dirty or corroded lamp sockets or contacts	Remove lamp and clean socket and contacts.
5.	ALL 110-VOLT LAMPS FAIL TO OPERATE		
	Step 1	Check power cable connection	Pull plug out and insert fully.
	Step 2	Check to see if current is available from power source.	Check power source for failure.
6.	ONE OR MORE 110-VOLT LIGHTS WILL NOT LIGHT		
	Step 1	Check to see if lamp is defective.	Replace defective lamp (paragraphs 3-15, 3-16)
	Step 2	Inspect for dirty or corroded lamp socket or contacts.	Remove lamp and clean contacts.
	Step 3	Inspect for broken wire or loose connections	Tighten, repair, or replace wire
	Step 4	Check for defective light assembly	Replace defective light assembly (paragraph 4-28 or 4-29)
7.	ONE OR MORE FLUORESCENT LAMPS WILL NOT LIGHT		
	Step 1	Check to see if lamp is defective.	Replace defective lamp (paragraph 3-17).
	Step 2.	Check to see if ballast is defective	Replace defective ballast (paragraph 4-30)
	Step 3.	Check to see if fixture is defective	Replace defective fixture (paragraph 4-30).
	BRAKE SYSTEM		
1.	BRAKES WILL NOT RELEASE.		
	Step 1.	Check to see if relay valve is in applied position.	Build up pressure in semitrailer brake system
			If trailer is coupled. Open drain cock in semitrailer air reservoir
			If van is uncoupled.
	Step 2.	Inspect intervehicular air hose for proper connection	Connect hose properly.
	Step 3.	Check to see if brake on towing vehicle is in applied position.	Release towing vehicle brake
	Step 4.	Check for restrictions in service and emergency air lines, or intervehicular hose.	Straighten kinks and bends in lines or hose
	Step 5	Check to see if shutoff valves on towing vehicle are in closed position	Open towing vehicle shutoff valves.

Table 4-2. Troubleshooting - Continued

MALFUNCTION		TEST OR INSPECTION	CORRECTIVE ACTION
		BRAKE SYSTEM - Continued	
	Step 6.	Check to see if air reservoir drain cock is open	Close air reservoir drain cock
	Step 7.	Inspect brake shoe retraction spring to determine if spring is weak or broken	Replace brake shoe return spring (paragraph 4-34).
2.	NO BRAKES OR WEAK BRAKES		
	Step 1.	Check to see if shutoff valves on towing vehicle are closed	Open towing vehicle shutoff valves
	Step 2.	Inspect intervehicular air hose for proper connection	Connect air hose properly
	Step 3.	Check to see if semitrailer air reservoir drain cock is open	Close air reservoir drain cock
	Step 4.	Check to see if air pressure is low	Check air pressure gage on towing vehicle
			Remove any restrictions in air lines
			Make leakage test
			With air hose couplings connected and brakes applied, coat couplings, connectors and fitting with soap and water solution
			No leakage is permissible
	Step 5.	Check relay valve for defect	Perform operating test (paragraph 4-41b).
			Replace if necessary.
	Step 6.	On those semitrailers incorporating an air filter, inspect for clogged filter	Clean or replace element (paragraph 4-40)
	Step 7.	Check for air in hydraulic brake system	Bleed hydraulic brake system (paragraph 4-33).
	Step 8.	Check for leaks in hydraulic system	Tighten connections
	Step 9.	Inspect for grease or brake fluid on brake lining.	Replace brake shoe (paragraph 4-35)
			Check and replace wheel cylinder, if necessary (paragraph 4-36)
	Step 10.	Check to see if brakes are out of adjustment	Adjust brakes (paragraph 4-32)
	Step 11.	Check for worn brake linings	Replace brake shoe if lining is worn (paragraph 4-35)
	Step 12.	Check to see if brake fluid is low in master cylinder.	Fill master cylinder with brake fluid or replace defective master cylinder (paragraph 4-38).
	Step 13.	Check for defective master cylinder	Replace defective master cylinder (paragraph 4-38)
	Step 14.	Check for defective wheel cylinder	Replace defective wheel cylinder (paragraph 4-36).
3.	SLOW BRAKE APPLICATION OR SLOW RELEASE.		
	Step 1.	Check to see if air pressure is low	Check air supply
			Make leakage test (paragraph 4-44)

Table 4-2. Troubleshooting - Continued

4-12

Table 4-2. Troubleshooting - Continued

MALFUNCTION		TEST OR INSPECTION	CORRECTIVE ACTION
BRAKE SYSTEM - Continued			
Step 2.		Check to see if air filter is clogged (if installed).	
Step 3.		Clean or replace element (paragraph 4-40a). Check for defective relay valve. Perform operating test (paragraph 4-41b) and replace if necessary	
Step 4		Check for air m hydraulic brake system Bleed hydraulic brake system (paragraph 4-33)	
Step 5		Check for weak or broken brake shoe retraction spring Replace spring (paragraph 4-34)	
Step 6		Check for insufficient brake fluid in master cylinder Fill master cylinder with brake fluid until fluid level is one-half to three-eighths of an inch below top of reservoir (paragraph 4-38b)	
Step 7		Check for defective master cylinder Replace defective master cylinder (paragraph 4-38)	
Step 8		Check for defective wheel cylinder Replace defective wheel cylinder (paragraph 4-36).	
4.	GRABBING BRAKES		
Step 1		Check for moisture In air filters (if installed) or air reservoir Drain air filters and drain air reservoir	
Step 2		Check for defective relay valve Perform operating test (paragraph 4-41b) Replace If necessary	
Step 3.		Check for grease on brake lining. Replace brake shoe (paragraph 4-35). Replace oil seal if necessary (paragraph 4-47)	
Step 4.		Check to see if brakes are out of adjustment Adjust brakes (paragraph 4-32)	
Step 5.		Check for cracked, scored, or deformed brake drum. Replace defective brake drum (paragraph 4-47).	
Step 6		Check for loose or worn brake lining Replace brake shoes (paragraph 4-35)	
Step 7		Check for loose or worn wheel bearings Adjust wheel bearings (paragraph 4-47f) If they cannot be adjusted properly, replace wheel bearings (paragraph 4-47f)	
5.	BRAKE DRUM RUNNING HOT		
Step 1		Check to see If brakes are adjusted too tightly Adjust brakes (paragraph 4-32)	
Step 2		Check for weak or worn brake shoe retraction spring Replace defective spring (paragraph 4-34)	
Step 3		Check for deformed brake drum Replace deformed brake drum (paragraph 4-47).	
6.	UNEVEN BRAKING		
Step 1		Check to see if brakes are out of adjustment Adjust brakes (paragraph 4-32).	

MALFUNCTION		TEST OR INSPECTION	CORRECTIVE ACTION
BRAKE SYSTEM - Continued			
Step 2.		Check for grease on brake lining. Replace brake shoe (paragraph 4-35) Replace oil seal If necessary (paragraph 4-47)	
Step 3.		Check for defective wheel cylinder Replace defective wheel cylinder (paragraph 4-36).	
7	NOISY BRAKES		
Step 1.		Check for loose rivets or loose lining. Replace brake shoe (paragraph 4-35).	
Step 2.		Check for scored or deformed brake drum Replace defective brake drum (paragraph 4-47).	
Step 3.		Check for road grit, rust or metal particles in brake drum. Clean brake drum and brake components.	
1.	WHEEL NOISE		WHEELS AND HUBS
Step 1.		Check for worn wheel bearings Replace worn wheel bearings (paragraph 4-47).	
Step 2.		Check for worn brake lining or lining that is too tight against drum Adjust brakes (paragraph 4-32) or replace brake shoes (paragraph 4-35)	
Step 3		Check to see if wheel bearings are too tight Adjust or replace wheel bearings (paragraph 4-47).	
2.	WHEEL WOBBLE		
Step 1.		Check wheel bearings for wear or damage Replace worn or damaged wheel bearings (paragraph 4-47)	
Step 2.		Check to see if wheel bearings are too loose. Adjust or replace loose wheel bearings (paragraph 4-47).	
1.	ERRATIC OPERATION (BINDING AND GRINDING)		RIGID LANDING GEAR
Step 1.		Check for grit and dirt on working parts Clean working parts	
Step 2.		Check for adequate lubrication Lubricate in accordance with the lubrication order (figs 3-1 and 3-3).	
SWING-UP LANDING GEAR			
1.	ERRATIC OPERATION (BINDING AND GRINDING)		
Step 1		Check for grit and dirt on working parts Clean working parts	
Step 2		Check operation after cleaning Replace landing gear if binding persists Lubricate In accordance with lubrication order (fig 3-1)	
1.	JACK IS HARD TO OPERATE		LEVELING JACK
Step 1		Check lubrication Lubricate according to lubrication order (figs 3-1 and 3-3)	
Step 2		Check for bent jack screw Replace leveling jack if jack screw is bent	
Step 3		Check for bent or dented housing Replace housing as necessary	

Table 4-2. Troubleshooting - Continued

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION		
LEVELING JACK - Continued		
2.	JACK FOOT PLATE WILL NOT SET ON BASE	Step 1. Check foot plate Replace bent foot plate
TANDEM SUSPENSION SYSTEM		
1.	PULLING TO LEFT OR RIGHT	Step 1. Check for dragging brakes Adjust brakes (paragraph 4-32). Step 2. Check for improper wheel bearing adjustment Adjust bearings (paragraph 4-47) Step 3. Check for loose suspension springs Tighten U-bolt nuts
2.	EXCESSIVELY WORN, SCUFFED, OR CUPPED TIRES.	Step 1. Check for improper tire pressure Inflate to proper pressure (paragraph 3-18b) Step 2. Check for loose wheels Tighten wheel nuts. Step 3. Check for loose wheel bearings Adjust wheel bearings (paragraph 4-47) Step 4. Check for deformed wheel or rim. Replace defective wheel (paragraph 3-18). Step 5. Check for deformed brake drum. Replace deformed brake drum (paragraph 4-47).
AIR SUSPENSION SYSTEM		
1.	ALL AIR SPRINGS ARE FLAT.	Step 1. Check for sufficient air pressure Build up towing vehicle air pressure to 65 psi (paragraph 2-2e). Step 2. Check for poor coupling connections Connect couplings properly (paragraph 2-2) Step 3. Check air lines for breaks or leaks Repair or replace.
2.	AIR SPRINGS FLAT ON ONE SIDE OF TRAILER ONLY	Step 1. Check height control valves adjustment Adjust valve to proper dimensions (paragraph 4-56b) Step 2. Check air spring for severe leak or blowout Replace air spring (paragraphs 4-57d, e) Step 3. Check height control valve for defect Replace height control valve. Step 4. Check height control valve linkage for breaks or bends Repair or replace linkage Step 5. Check air line for leak or break Repair leak or replace line
3.	SEMITRAILER LEANS.	Step 1. Check height control valve adjustment or malfunction. Adjust or replace height control valve. Step 2. Check air spring for severe leak or blowout Replace air spring (paragraph 4-57d, e) Step 3. Check air lines for leaks Repair air line leaks
4.	SUSPENSION DEFLATES RAPIDLY WHEN PARKED	Step 1. Check air lines for leaks. Locate and repair leak.

Table 4-2. Troubleshooting - Continued

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION		
AIR SUSPENSION - Continued		
	Step 2. Check air spring for leaks or wear. Replace air spring	
5.	AIR SPRING BLOWN OUT	Step 1. Check for excessive wear, puncture or cut Replace air spring Step 2. Check if tires or rims are rubbing air spring Align wheel properly. Step 3. Check for continual or repeated over-extension of air spring Adjust height control valve Replace shock absorber if broken Replace broken upper shock mount bracket Step 4. Check for proper adjustment of height control valves. Adjust height control valve (paragraph 4-56b).
6.	TORSION BAR BREAKAGE	Step 1. Check adjustment of height control valves. Readjust height control valves (paragraph 4-56b). Step 2. Check axle connections for looseness Tighten U-bolt nuts to proper torque limits (table 4-3)
7.	WEAR OF TORSION BAR RUBBER BUSHING	Step 1. Check for torsional preload in bushing. Loosen clamp bolts and retighten with suspension equalizing arms at normal ride position. AIR MOUNTED FIFTH WHEEL KINGPIN
1.	AIR SPRINGS FLAT.	Step 1. Check air pressure of system Build up towing vehicle air pressure to 65 psi. Step 2. Check for poor coupling connection Connect coupling properly (paragraph 2-2). Step 3. Check air lines for leaks or breaks Repair or replace.
2.	UNELEVEL CONDITION WHEN FULLY INFLATED.	Step 1. Check air spring for blowout or leaks Replace air spring (paragraph 4-59). Step 2. Check air lines for leaks or breaks Repair or replace.
3.	SYSTEM DEFLATES RAPIDLY WHEN PARKED	Step 1. Check air lines for leaks or breaks Repair or replace Step 2. Check air spring for leaks Replace air spring (paragraph 4-59).
4.	AIR SPRING BLOWN OUT	Step 1. Check air spring for wear, cuts and punctures. Replace air spring (paragraph 4-59) Step 2. Check if semitrailer operated extensively with low or no air in springs. isolate and correct condition Replace air spring (paragraph 4-59) Step 3. Check for continual or repeated over-extension of air spring Adjust height control valve (paragraph 4-58b) or replace shock absorber, if broken (paragraph 4-59c and d)



Table 4-2. Troubleshooting - Continued

MALFUNCTION	
TEST OR INSPECTION	CORRECTIVE ACTION
DOORS	
1 DIFFICULTY IN LOCKING OR UNLOCKING DOORS	
Step 1	Check center lock, flush bolts and striker plates for rust and corrosion Clean and lubricate
Step 2	Check if door is hard to lock Add shim stock as required under center lock and/or flush bolt guides
Step 3	Check for a good weather-tight seal when door is in closed and locked position Add shim stock as required under striker plate at flush bolts Replace defective lock assembly (paragraph 4-66)
2 DOOR HINGES DO NOT OPERATE PROPERLY	
Step 1	Check for rust on hinge pin Remove rust and lubricate
Step 2	Check for cracked or broken hinge Replace defective hinge (paragraph 4-65)
3 DECONTAMINATION PORT AND AIR VENTS	
Step 1	Check gaskets for serviceability Remove defective gasket, clean area and install new gasket (paragraphs, 4-69, 4-70)
Step 2	Check condition of air vent screen Replace defective screen (paragraphs, 4-69, 4-70).

Table 4-2. Troubleshooting - Continued

MALFUNCTION	
TEST OR INSPECTION	CORRECTIVE ACTION
ACCESS OPENINGS	
1 COVER DOES NOT SEAL OPENING	
Step 1	Check cover for warpage or distortion Straighten cover Replace cover if defective (paragraph 4-71)
Step 2	Check cover seals or gaskets Replace seals if defective (paragraph 4-71)
Step 3	Check cover hinge for defects or bind Straighten bent hinge Replace defective hinge (paragraph 4-71)
2 COVER SHIELDS DO NOT OPERATE PROPERLY	
Step 1	Check shields for proper alinement Straighten shields as necessary Replace defective shield (paragraph 4-71)
Step 2	Check shield hinge for warpage or bind Straighten bent hinge Replace defective hinge (paragraph 4-71)
Step 3	Check stay for misalignment Straighten stay
Step 4	Check shield seals Replace defective seals (paragraph 4-71)
3 LOCKING DEVICES DO NOT OPERATE PROPERLY	
Step 1	Check captive screws and thumb screws Replace defective screws
Step 2	Check captive screw receptacles and rivnuts. Replace defective receptacles and rivnuts.

## Section VII. MAINTENANCE ELECTRICAL SYSTEM

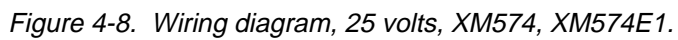
### 4-14. General

a. All semitrailers are equipped with a 24-volt electrical system that is supplied from the electrical system of the towing vehicle through the intervehicular cable to the receptacle located at the front center of the chassis. This circuit supplies current for the marker clearance lights, service and blackout taillights and stoplights, and the 24-volt Interior dome lights.

b. The 110/220-volt circuits used on the XM654, XM680, XM680E1, and XM822 semitrailers must be supplied from an external source.

c. The semitrailer chassis is equipped with 24-volt electrical system. For operation with towing vehicle having a 12-volt system, the using service will exchange the 24-volt lamps with 12-volt lamps and use the special 12-volt cable adapter.

d. Refer to figures 4-8 through 4-19 for the wiring diagrams.



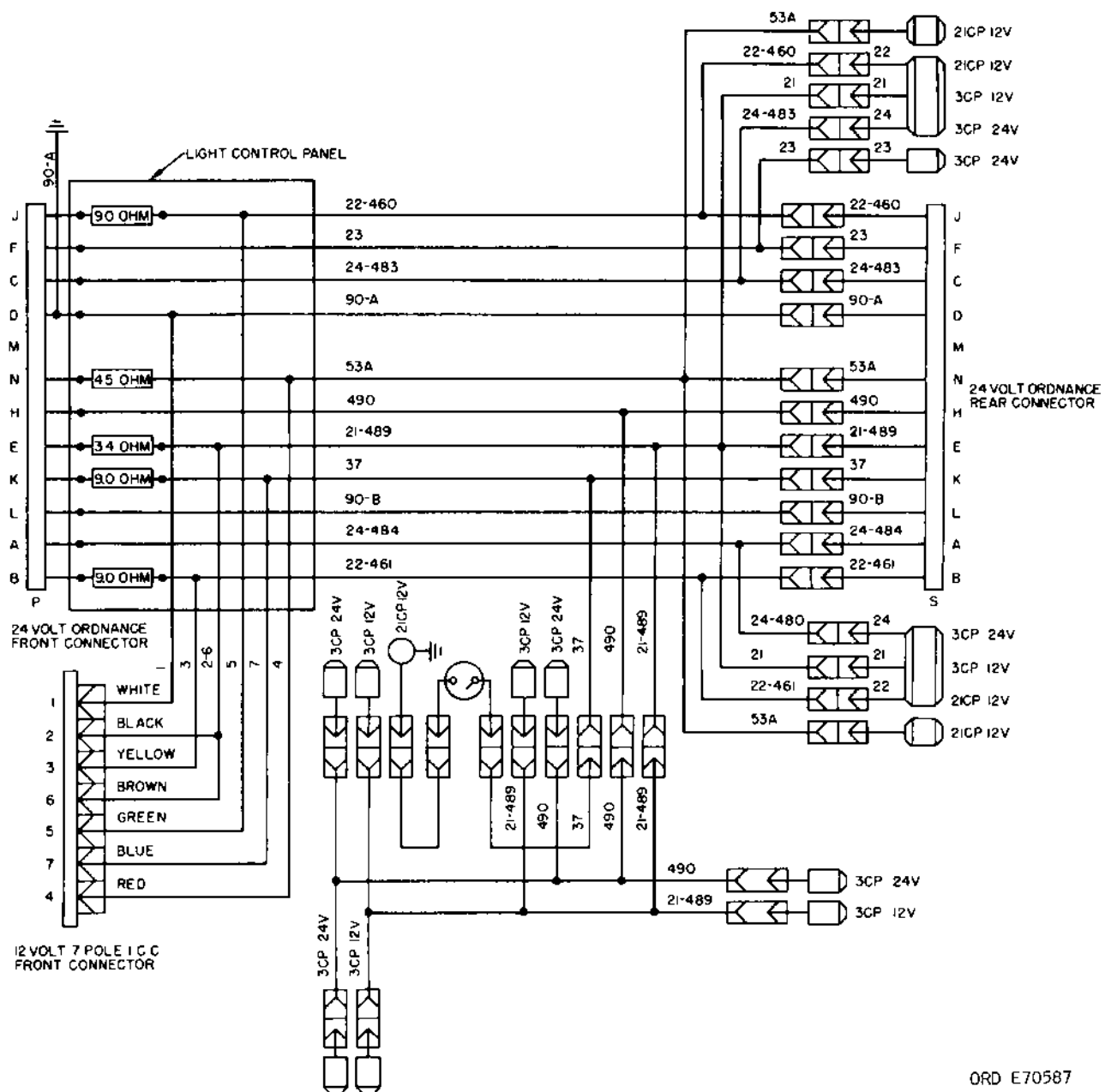
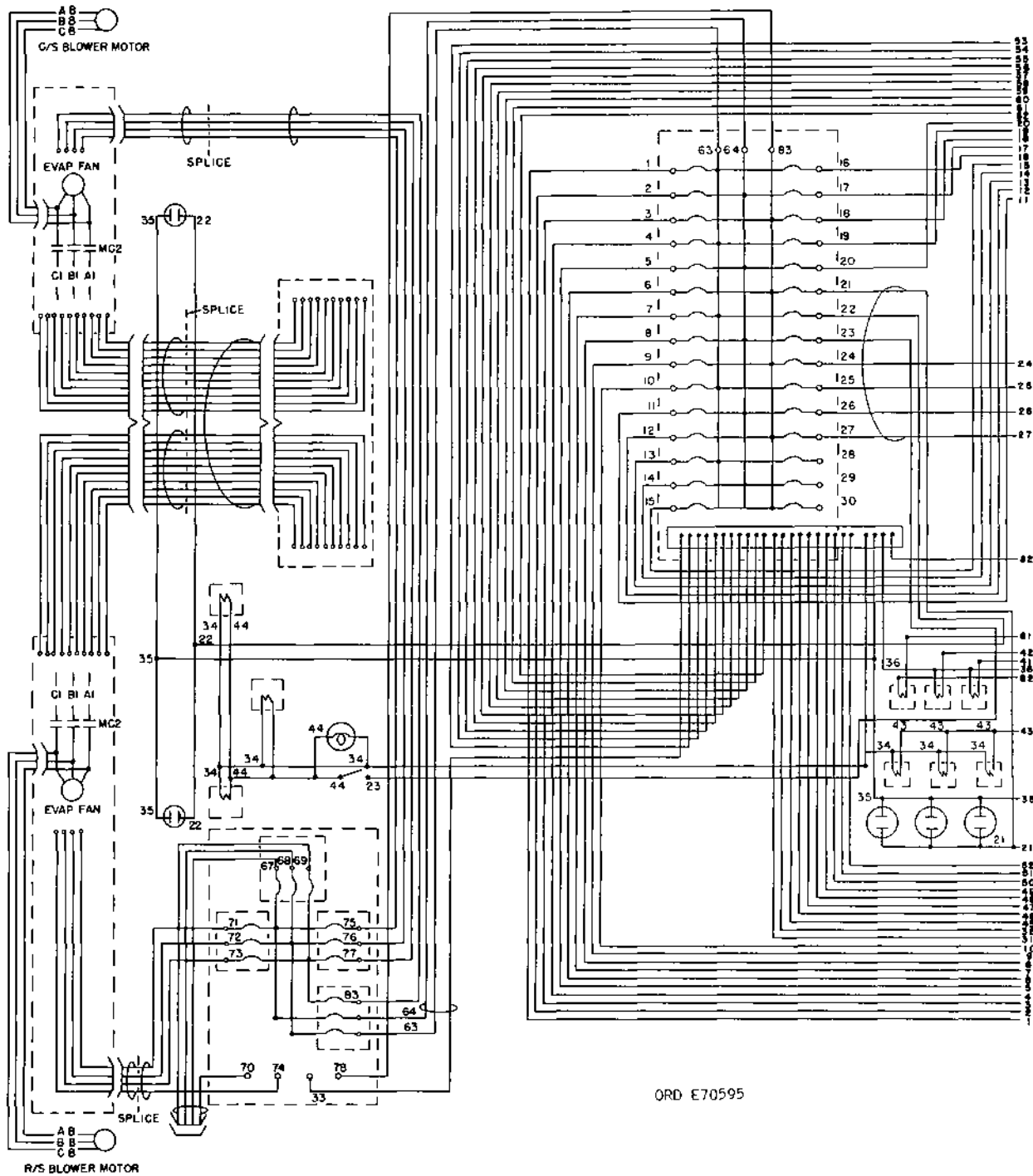
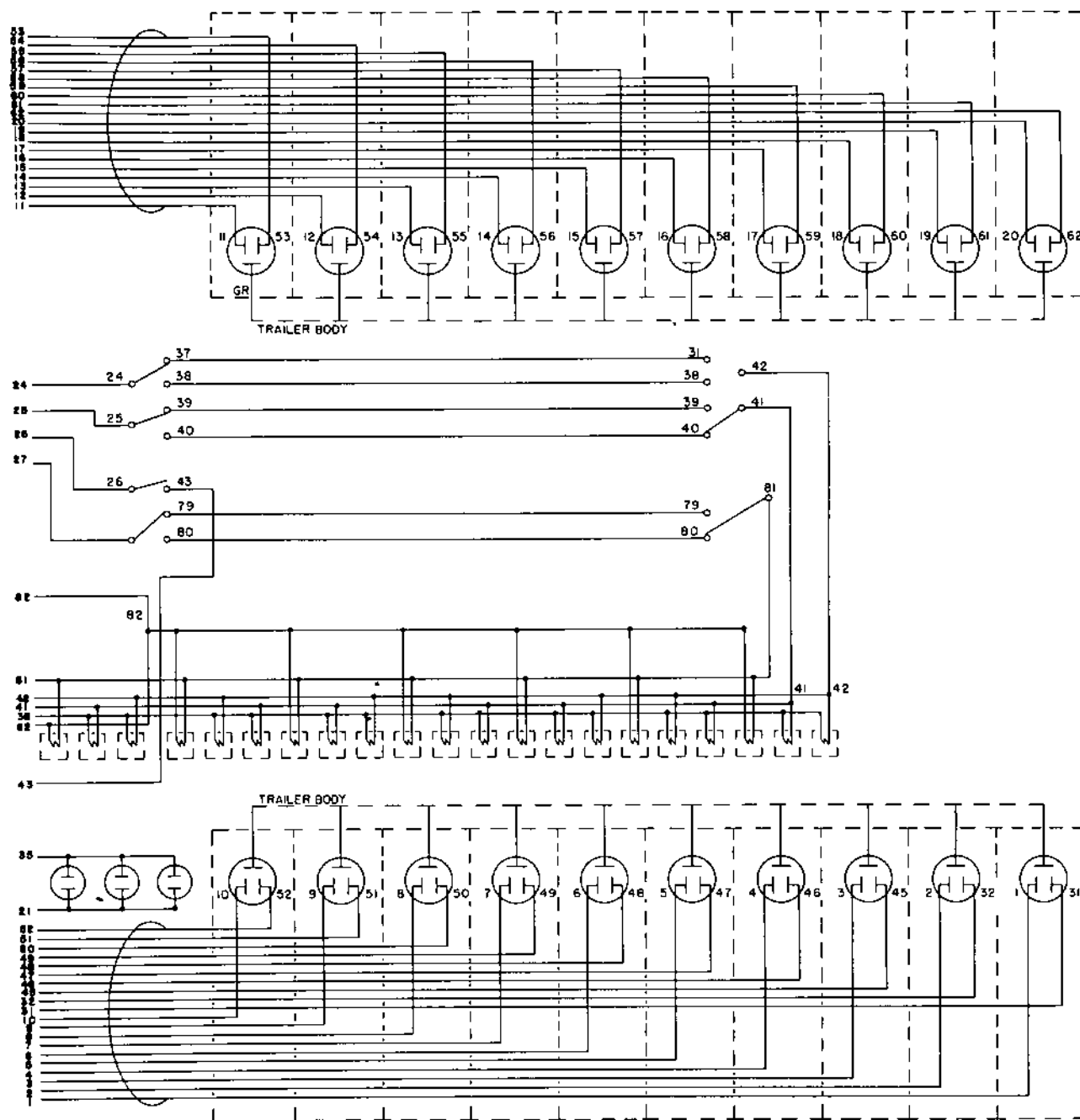


Figure 4-9. Wiring diagram, 24 volts, XM654 (sheet 1 of 3).



ORD E70595

Figure 4-9. wiring diagram, 110/220 volts, XM654 (sheet 2 of 3)



ORD E70596

Figure 4-9. Wiring diagram, 110/220 volts, XM654 (sheet 3 of 3)

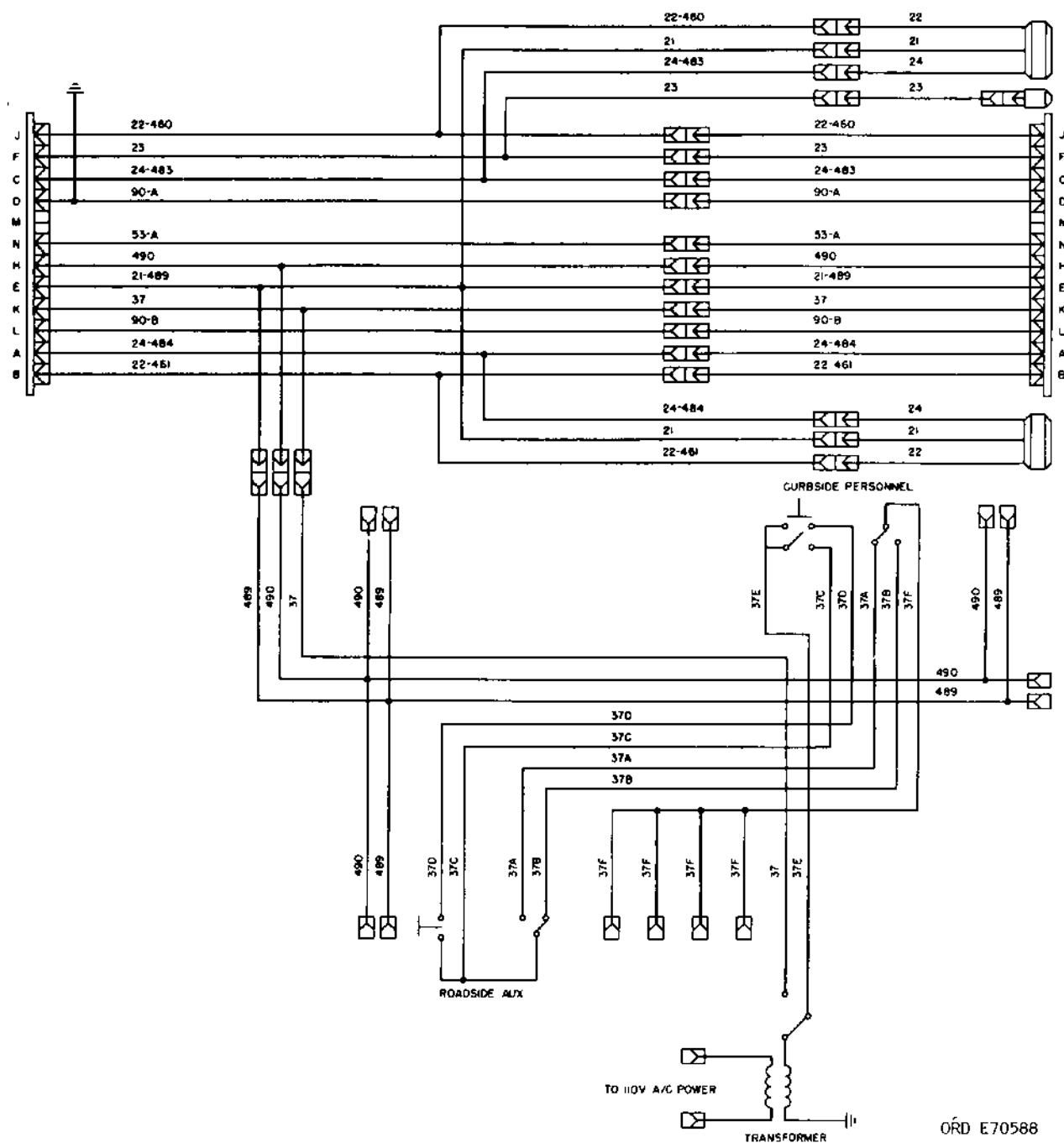


Figure 4-10. Wiring diagram, 24 volts, XM680, XM680E1

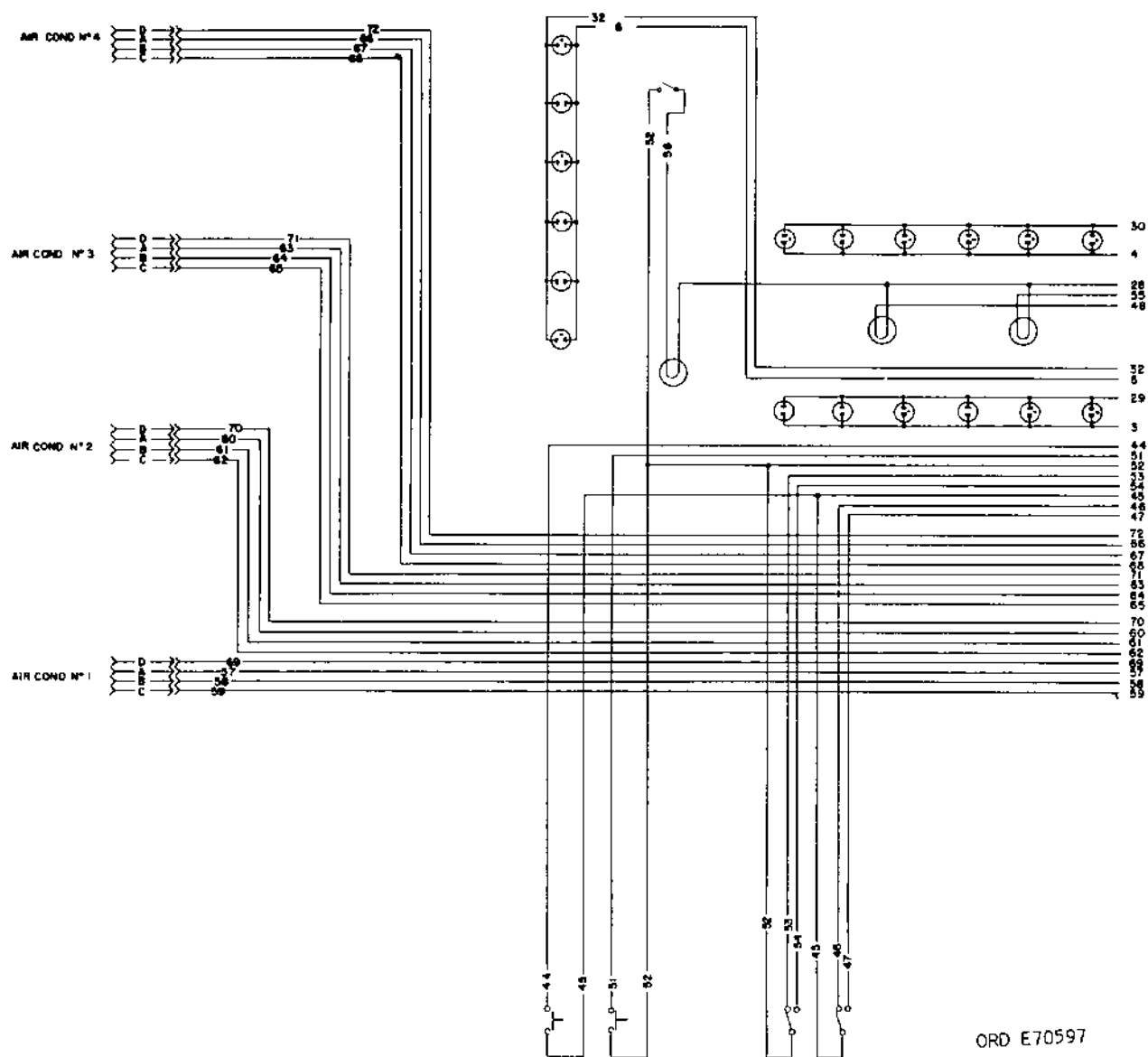
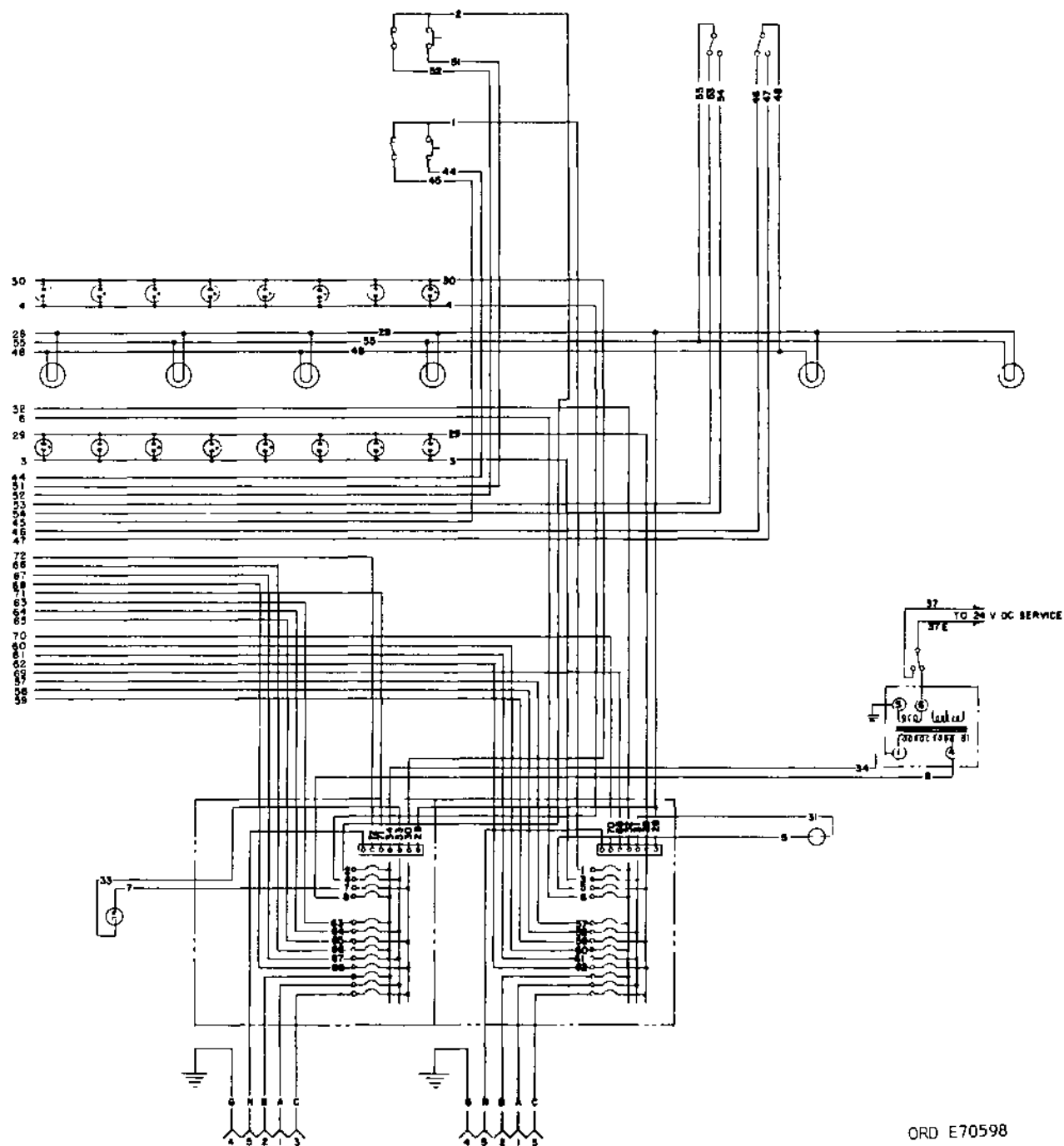


Figure 4-11. Wiring diagram, 110/220 volts, XM680, XM680E1 (sheet 1 of 2).



ORD E70598

Figure 4-11. Wiring diagram, 110/220 volts, XM680, XM680E1 (sheet 2 of 2).



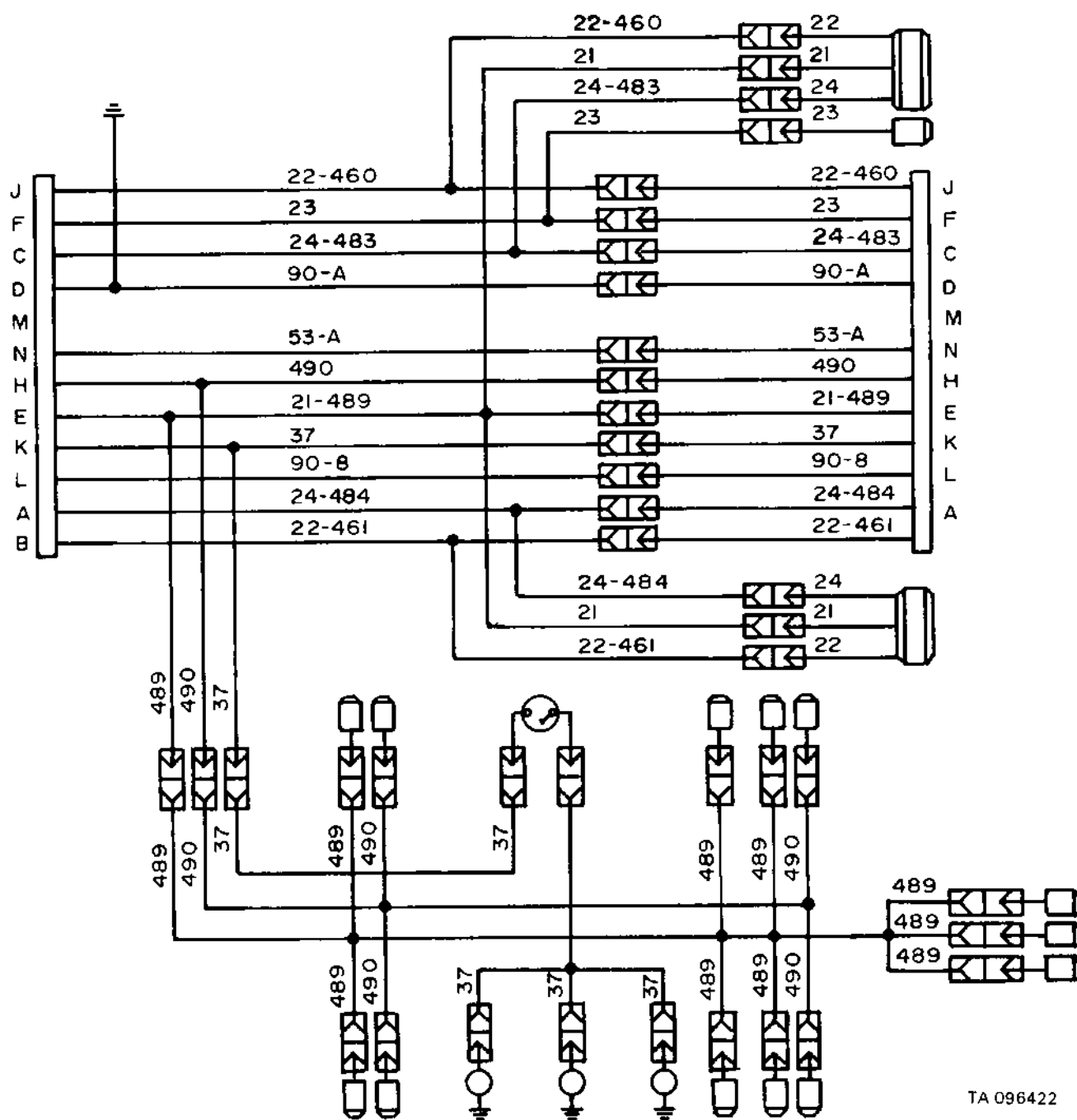


Figure 4-12. Wiring diagram, 24 volts, XM738, XM739, XM739E1, XM828, XM824.

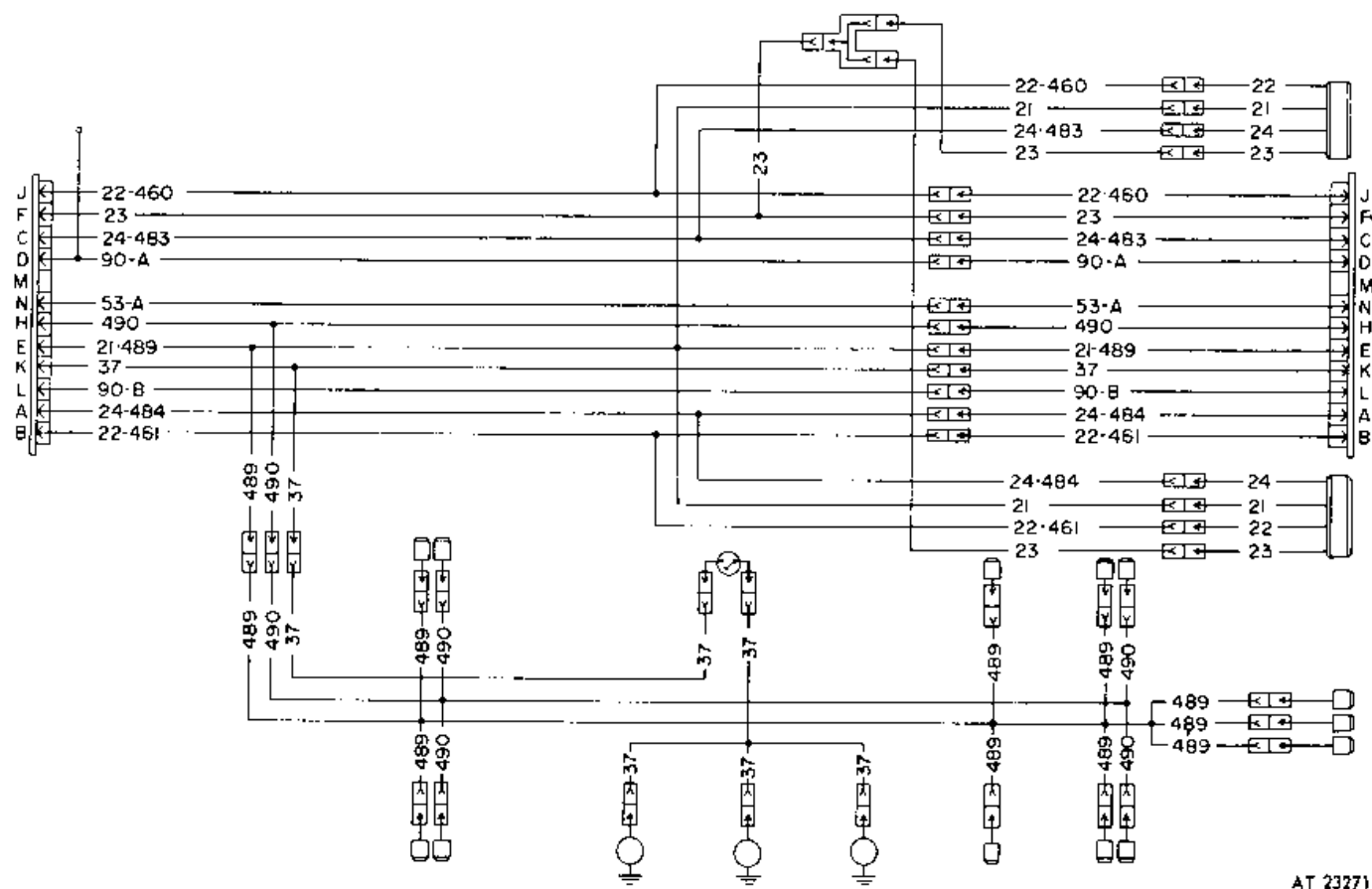


Figure 4-13. Wiring diagram, 24 volts, XM822 (serial number S2669)

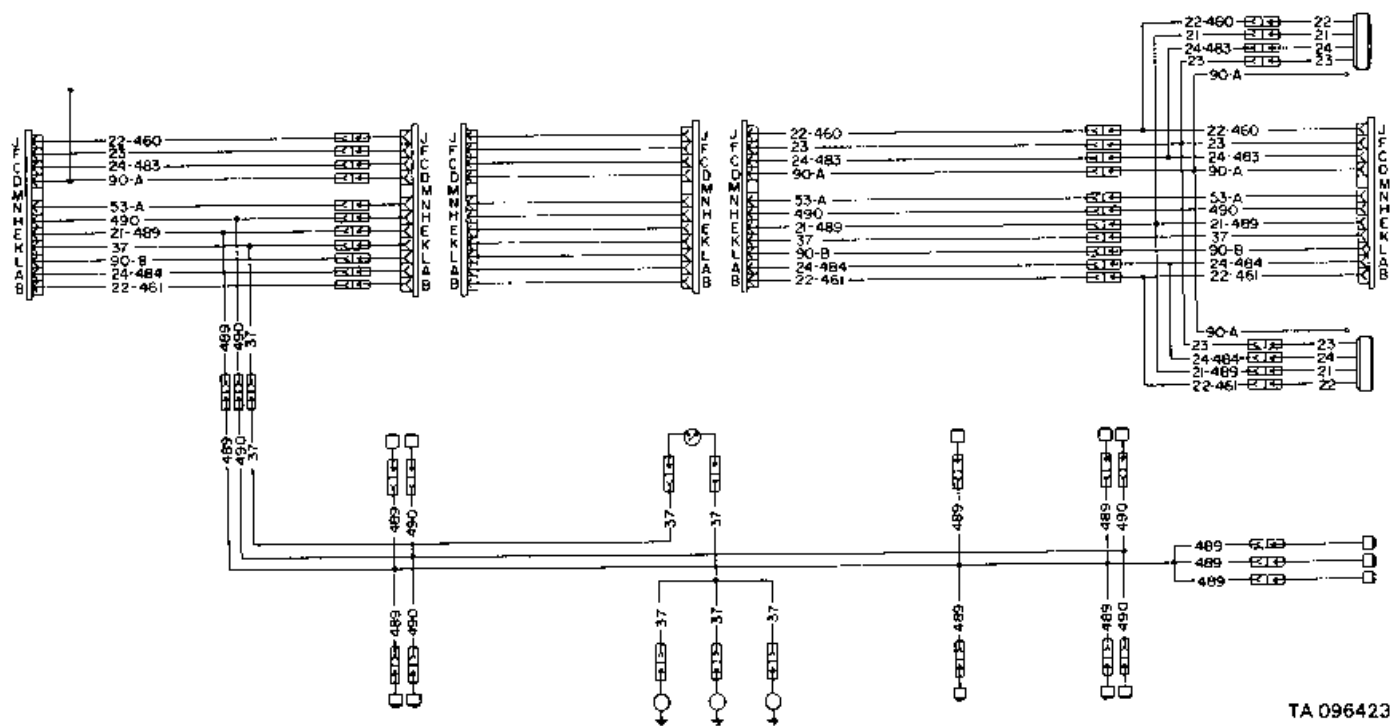


Figure 4-14. Wiring diagram, 24 volts, XM822 (after serial number S2669)

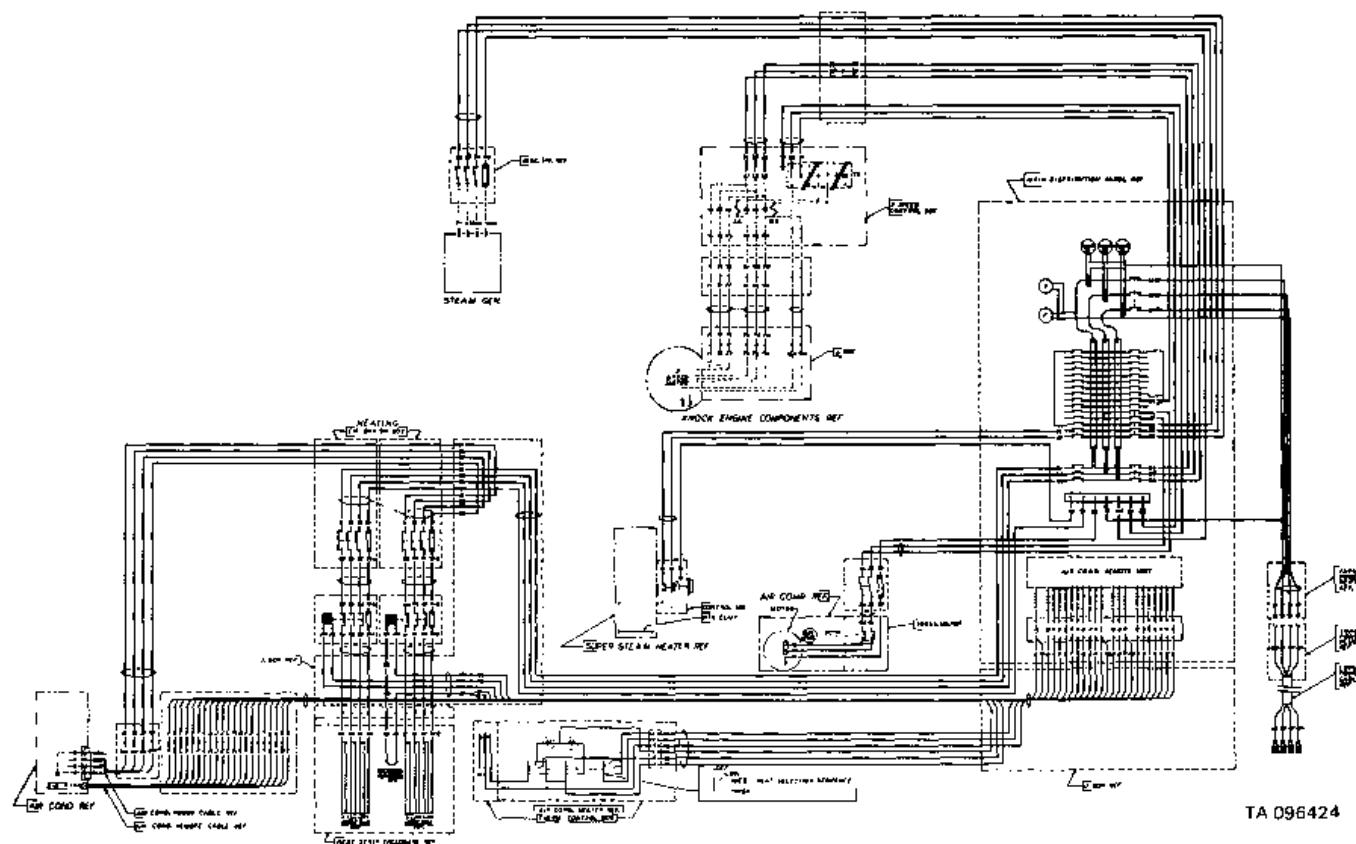


Figure 4-15. Wiring diagram, 110 volts, XM822

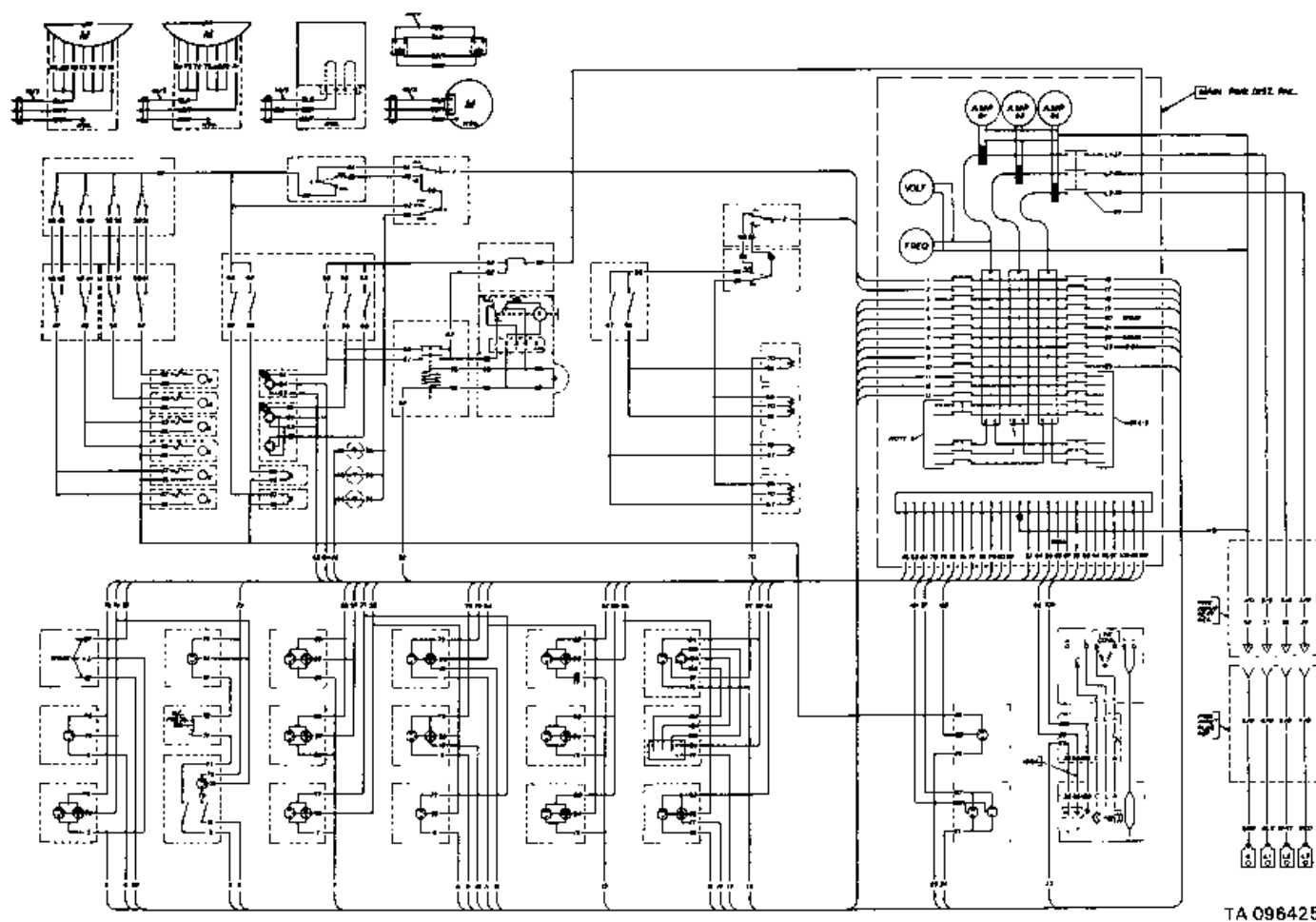


Figure 4-16. Wiring diagram, 220 volts, XM822.

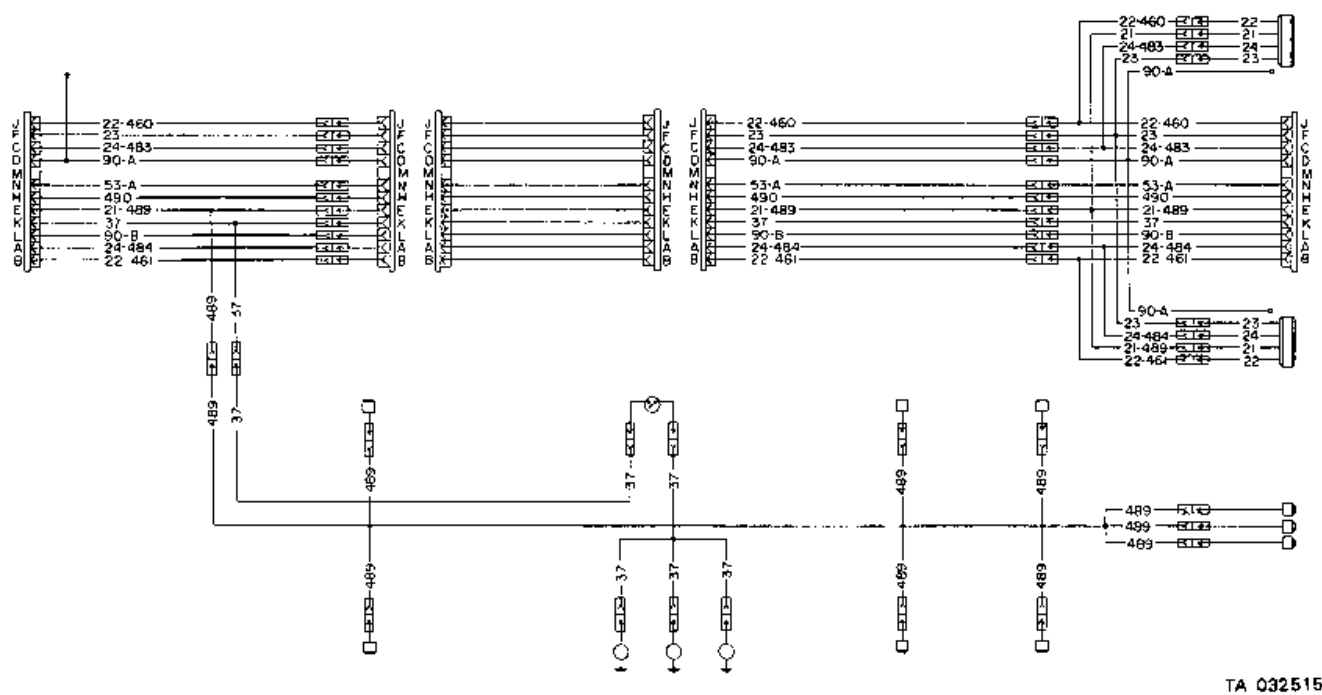
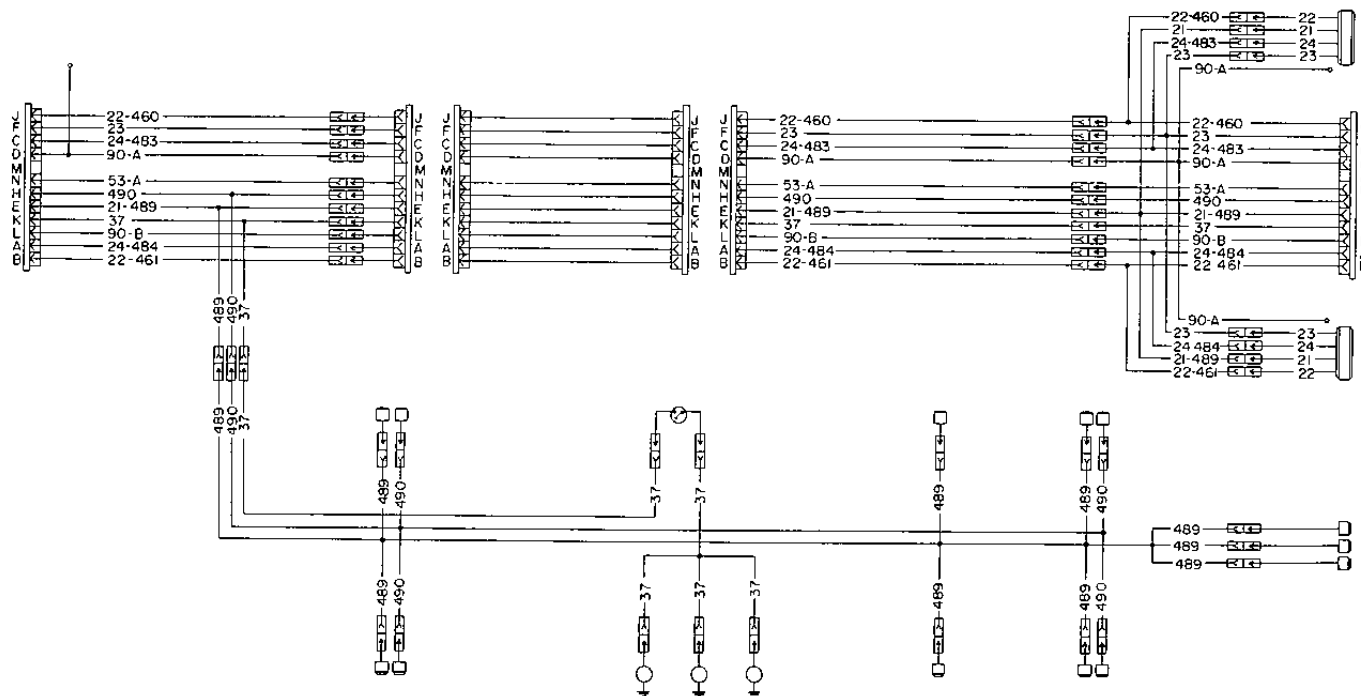
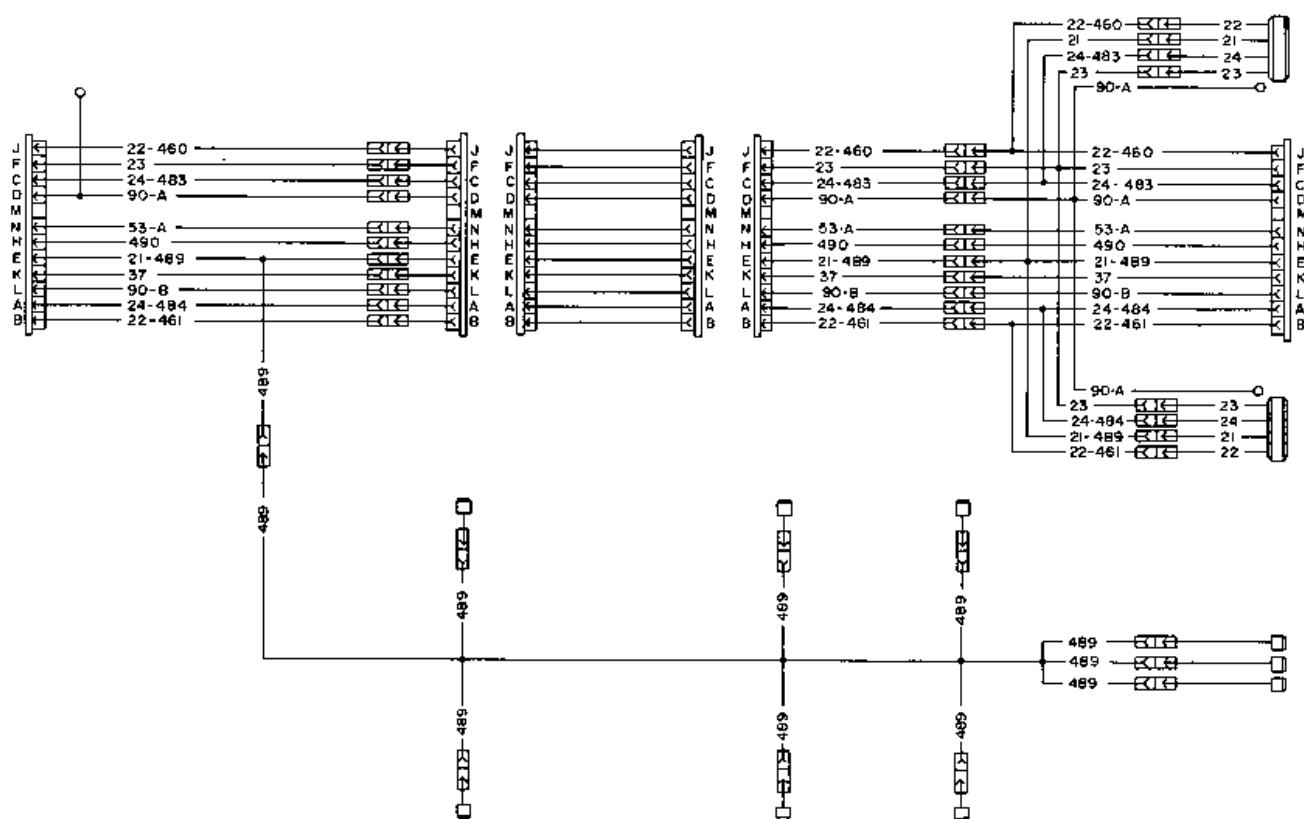


Figure 4-17. Wiring diagram, 24 volts, XM844, XM845.



TA 032511

Figure 4-18. Wiring diagram, 24 volts, XM847, XM848, XM849, XM850.



TA 032523

Figure 4-19. Wiring diagram, 24 volts, XM912, XM913.



#### 4-15. Intervehicular Cable Receptacle

- a. *Removal.*
  - (1) Remove four nuts, washers and screws which secure cover and receptacle to chassis frame. Remove cover and receptacle.
  - (2) Remove tape to expose nut and wires.
  - (3) Remove nut from receptacle and slide nut back over harness.
  - (4) Remove rubber bushing from receptacle and slide bushing back over wires to expose solder connections.
  - (5) Unsolder wires at rear of receptacle.
- b. *Cleaning and Inspection.*
  - (1) Clean all parts with an approved cleaning solvent. Dry thoroughly.
  - (2) Inspect all parts for cracks, breaks or other damage.
  - (3) Replace defective part.
- c. *Installation.*
  - (1) Solder wires to terminals at rear of receptacle in accordance with wiring diagram.
  - (2) Slide rubber bushing over wires and solder connections at rear of receptacle.

- (3) Slide nut over wires and bushing to rear of receptacle and tighten nut.

#### NOTE

**Receptacle key must be adjacent to cover hinge.**

- (7) Align holes in cover and receptacle with holes in chassis and secure with four screws, washers and nuts, with ground lug secured to chassis by one of the washers and nuts.

#### 4-16. External Power Entry Receptacle, XM822 (fig. 4-20)

- a. *General.* An external power entry receptacle is located on the exterior of the XM822 semitrailer at the rear, roadside.
  - (4) Make a continuity check of all circuits throughout semitrailer.
  - (5) Wrap exposed wires and nut with tape, leaving ground wire (with lug) exposed for later installation (step 7 below).
  - (6) Insert ground wire and receptacle into hole in front of chassis and place cover assembly over receptacle flange with center line of cover hinge 90 degrees from center line of van.

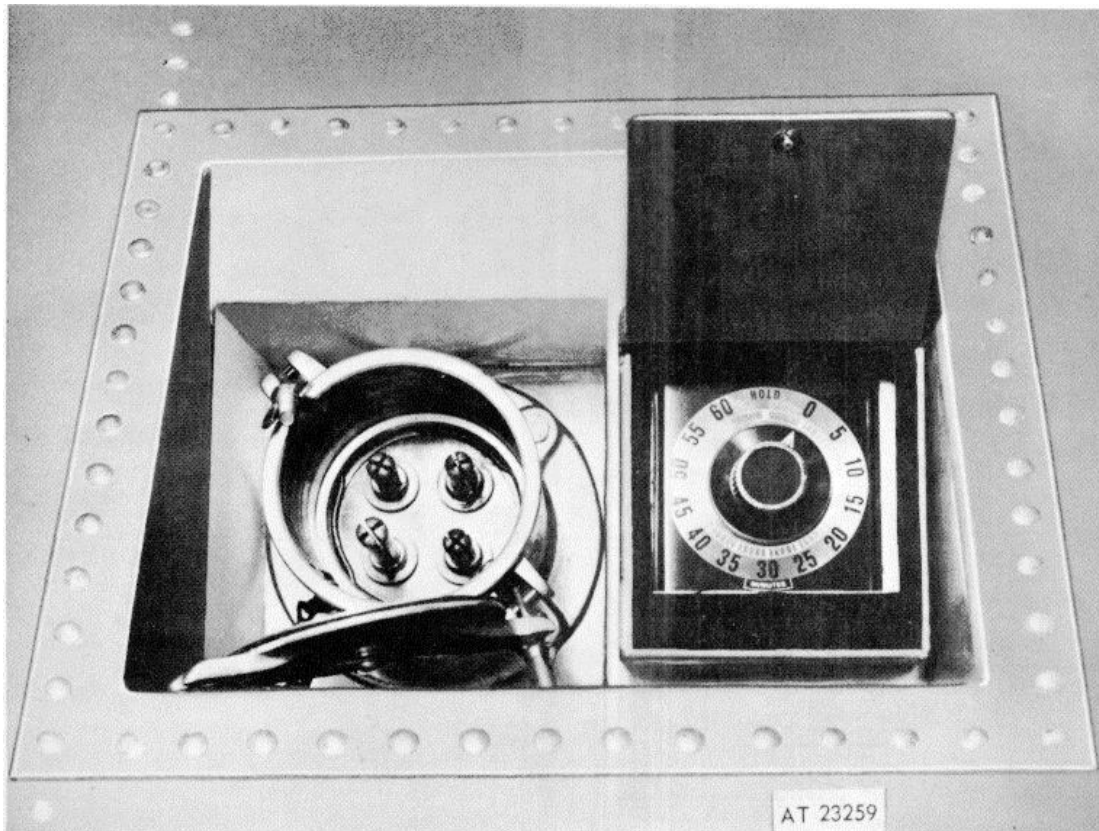


Figure 4-20. External power entry receptacle and time clock. XM822.

*b. Removal (fig. 6).*

(1) Remove four nuts (18), washers (19), and bolts (20) securing receptacle and cover (17) to chassis frame. Remove receptacle.

(2) Unsolder wires at rear of receptacle.

*c. Cleaning and Inspection.*

(1) Clean all parts with an approved cleaning solvent (paragraph 3-3b). Dry thoroughly.

(2) Inspect for cracks, breaks and other damage.

(3) Replace defective parts.

*d. Installation (fig. 6).*

(1) Solder wires to terminals at rear of receptacle in accordance with wiring diagram (figs. 4-15, 4-16).

(2) Align holes in receptacle (17) with holes in chassis and secure with four bolts (20), washers (19), and nuts (18).

**4-17. Semitrailer Purging Time Clock, XM822 (fig. 4-20)**

*a. General.*

(1) A time clock used in the purging of the semitrailer is located on the exterior of the XM822 semitrailer at the rear, roadside, next to the power entry receptacle.

(2) Van purging instruction is located adjacent to the time clock.

(3) All exterior doors have warning plates cautioning personnel to purge the van before entering.

(4) The purging circuit breaker is always ON.

*b. Removal of Time Clock.*

(1) Remove four self-locking nuts and screws securing time clock to chassis.

(2) Unsolder wires at rear of clock and remove clock.

*c. Installation of Time Clock.*

(1) Solder wires at rear of time clock.

(2) Position clock and secure with four screws and self-locking nuts.

**4-18. Switches**

*a. General.*

(1) The XM654 semitrailer has 8 toggle switches and 37 circuit breakers, of which 30 are the 20-amp type used for the 30-dome lights.

(2) The XM680 and XM580E1 are equipped with 11 toggle switches and 6 micro switches.

(3) On the XM822 semitrailer, two master switch boxes are located in the rear compartment. The switch box at the left controls the 110-volt circuits; the box at the right controls the 220-volt circuits. Each switch is provided with a circuit breaker.

(4) On the XM822 semitrailer, a microswitch for the blackout lights is located in each of the three outside door jambs. Two override switches are provided to bypass the blackout lights. Four three-way switches are located in the laboratory compartment and four other three-way switches are located in the rear compartment. A one-way switch is located in the utility compartment.

*b. Removal of Dome Light Switch, 24 Volts, XM574, XM574E1, XM654, XM738, XM739, XM739E1, XM822, XM844, XM845, XM847, XM848, XM849, XM850.*

(1) Remove four screws (four rivets for the XM822) securing switch to wall.

(2) Detach wires and remove switch c Installation of Dome Light Switch, 24 Volts (1) Attach wires (refer to figs. 4-8, 4-9, 4-12 through 4-14, 4-17, or 4-18).

(2) Position switch on wall and secure with four screws (four rivets for the XM822 semitrailer).

*d. Removal of Door Operated Blackout Switch, XM822.*

(1) Remove four screws securing cover and seal to switch housing. Remove cover and seal.

(2) Detach wires from switch.

(3) Remove three screws securing switch housing to semitrailer wall.

(4) Remove connector securing conduit to switch housing and withdraw housing.

*e. Installation of Door Operated Blackout Switch, XM822.*

(1) Position housing and secure conduit to switch with the connector.

(2) Secure switch housing to semitrailer wall with three screws.

(3) Attach wires to switch.

(4) Position cover and seal on switch housing and secure with four screws.

*f. Removal of Blackout Override Switch, XM822.*

(1) Remove two screws securing plate and switch (with guard) to junction box.

(2) Loosen integral locking nut and remove guard and switch.

(3) Detach wires from switch.

*g. Installation of Blackout Override Switch, XM822.*

(1) Attach wires to switch.

(2) Position switch and guard on plate and secure by tightening integral locking nut.

(3) Position plate with switch attached on junction box and secure with two screws.

**4-19 Receptacles.***a. General.*

(1) The XM654 semitrailer is equipped with 2 duplex receptacles and 43 twistlock receptacles.

(2) The XM680 semitrailer is equipped with two duplex receptacles. The XM680E1 semitrailer has four duplex receptacles.

(3) On the SM822 semitrailer, eight dual receptacles are located in the interior of the van: four in the laboratory compartment and two each in the rear and utility compartments.

(4) A telephone inlet jack is located on the left wall toward the rear of the laboratory compartment.

*b. Removal of Receptacle.*

(1) Remove screw securing cover plate to receptacle and remove plate.

(2) Remove screws securing receptacle to junction box.

(3) Detach wires and remove receptacle.

*c. Installation of Receptacle.*

(1) Attach wires to receptacle.

(2) Position receptacle in junction box and secure with screws.

(3) Position cover plate on receptacle and secure with screws.

**4-20. Circuit Breaker, XM654, XM822***a. Removal.*

(1) Disconnect power source from semitrailer.

(2) Remove screws attaching cover plate to distribution box.

(3) Remove wires from terminals.

(4) Remove screw securing circuit breaker to contact bar.

(5) Remove circuit breaker by pulling outward and away from center strip.

*b. Testing.*

(1) Connect two terminals of circuit breaker to a fused variable current source of 60 hz, single phase, alternating current.

(2) Increase current to 5 percent above rating shown in white on front of circuit breaker. The breaker should open the circuit in not less than 2 minutes nor more than 5 minutes.

(3) Replace a defective circuit breaker.

*c. Installation.*

(1) Insert breaker in panel by pushing inward and against center strip.

(2) Attach circuit breaker terminal to contact bar with screw.

(3) Connect wires to circuit breaker terminals.

(4) Position cover on box and secure with attaching hardware.

**4-21. Reflector***a. Reflector Removal.*

(1) Remove two screws securing reflector to body.

(2) Remove reflector.

*b. Reflector Installation.*

(1) Apply sealant in and around mounting holes in van body.

(2) Position reflector on body and align mounting holes.

(3) Secure with two screws.

**4-22. Marker Clearance Light***a. General.*

(1) All semitrailers except XM680 and XM680E1 are equipped with four amber service and five red service clearance lights.

(2) The XM680 and XM680E1 semitrailers are equipped with two amber service and two red service clearance lights.

(3) All semitrailers except XM822, XM844, XM845, XM912, and XM913 are equipped with two amber blackout and two red blackout clearance lights.

*b. Removal (fig. 7).*

(1) Remove two screws (2) securing body (3) to plate (7) and remove body.

(2) Remove four screws (10) and washers (9) securing marker clearance light to semitrailer.

(3) Disconnect connector shell on clearance light cable.

*c. Cleaning, Inspection, and Repair (fig. 7).*

(1) Clean all parts, except rubber items or gaskets, with approved cleaning solvent (paragraph 33b).

(2) Inspect door for cracks, warpage, cracked or broken lens, or evidence of leakage around gasket.

(3) Replace a defective lens by removing two nuts (5) from studs on body (3) which secure lens in body. Install new lens (4) or (11) and secure with two nuts (5).

(4) Check socket to make sure all parts are in good condition and will make good electrical and watertight connections.

(5) Replace light if internal parts are defective.

(6) Sandpaper scratches, and paint, if required.

*d. Installation (fig. 7).*

(1) Attach connector on clearance light to the semitrailer cable assembly, making certain that matching cables (identified by numbered markers) are joined.

(2) Position plate (7) and preformed felt (8) on semitrailer, and secure with four screws (10) and washers (9).

(3) Test operation of light by turning on switch in towing vehicle.

(4) Install body (paragraph 3-9b).

**4-23. Stoplight, Taillight Assembly, XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822 (Serial No. S2669), XM823, XM824**

*a. General.*

(1) The XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822 (serial no. S2669), XM823, and XM824 semitrailers are equipped with two service taillight assemblies, which are mounted at the rear in each side of the frame.

(2) Each taillight assembly is used as a turn signal indicator in both service and blackout modes of operation. A blackout stoplight is mounted at the right rear in the chassis frame.

*b. Removal (fig. 9).*

(1) Disconnect three taillight assembly connectors from chassis harness connectors at right and left rear of trailer.

(2) Remove two screws (13) and lock washers (14) which secure taillight to mounting bracket and remove taillight.

**NOTE**

**To install stoplight-taillight PN 11614157, use composite light kit 11646355.**

*c. Disassembly (fig. 9).*

(1) Loosen captive screws securing door (6) to body (2) and remove door.

(2) Remove two screws (8) and lock washers (9) attaching socket and wiring assembly (3) to body (2).

(3) Remove three screws attaching metal grommet plate and rubber grommet to the body. Remove whole assembly from body by pulling cable through hole in body.

*d. Cleaning.*

(1) Clean exterior of body and door with approved cleaning solvent (paragraph 3-3b).

(2) If necessary to clean interior of body and socket assembly, use clean water and soap solution. Do not use cleaning solvent on interior of body.

(3) Dry all parts thoroughly.

*e. Inspection.*

(1) Inspect for cracked or warped door, cracked or broken lenses or evidence of leakage around lens gaskets. Replace preformed packing if necessary.

**NOTE**

**It is not practical to replace lenses or lens gaskets in door since these are clinched in place to make a watertight seal.**

(2) Inspect body for cracks or evidence of leakage. Replace light assembly if body is damaged.

(3) Check sockets and wiring assembly to make sure grommets, eyelets, sockets, cables, and connectors are in good condition and will make good electrical and watertight connections when installed.

(4) Check body grommet at rear of socket and wiring assembly to make sure cables are cemented securely to grommet and grommet will make watertight seal in body when installed.

(5) Replace socket and wiring assembly if the component parts of the assembly are defective.

*f. Assembly (fig. 9).*

(1) Thread cables through grommet plate with the lip of the plate up and towards the baffle plate. Thread cables through small bossed holes in rubber grommets.

(2) Work grommet on cables until a minimum of 6 inches of the cables extend through rear of grommet. Force grommet through the large hole in rear of body (2).

(3) Align three holes of grommet triangular flange with tapped holes of body.

(4) Align three holes in grommet retaining plate and secure with three screws.

(5) Work baffle, socket, and wiring assembly into position in body and align holes of lugs with two holes on bosses of body and secure with two screws (8) and lock washers (9).

*g. Installation (fig. 9).*

(1) Thread cable of stoplight taillight assembly through hole in mounting bracket.

(2) Attach taillight to mounting bracket with two screws (13) and lock washers (14).

(3) Connect the matching cables.

(4) Test operation of light (paragraph 3-11b(1)).

(5) Position door assembly (6) with preformed packing (5) on body (2) and secure with captive screws.

**4-24. Blackout Stoplight Assembly, XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822 (Serial No. S2669), XM823, XM824**

*a. Removal (fig. 8).*

- (1) Disconnect light cable connector.
- (2) Remove bolt and lock washer which secure blackout stoplight to rear crossmember of chassis frame.
- (3) Remove light.

**NOTE**

**To install stoplight-taillight PN 11614157, use composite light kit 11646355.**

*b. Disassembly (fig. 8).*

- (1) Remove two screws (11) securing door assembly (10) to housing (4).
- (2) Remove door assembly (10) and door gasket (9) from body. Remove door gasket from door.
- (3) Remove two screws (12) and rubber grommets (13) securing lampholder and wiring assembly (7) to housing (4).

*c. Cleaning.*

- (1) Clean exterior of body and door with approved cleaning solvent (paragraph 3-3b).
- (2) If necessary to clean interior of body or socket assembly with attached parts, use clean water and soap solution. Dry thoroughly.

*d. Inspection and Replacement.*

- (1) Inspect door assembly for cracks, warpage, cracked or broken lens, or evidence of leakage around lens gaskets. Replace defective gasket.

**NOTE**

**It is not practical to replace lens or gaskets in door assembly since these parts are clinched in place to make a watertight seal.**

- (2) Inspect housing for cracks or evidence of leakage. Replace light if housing is damaged.
- (3) Check lampholder and wiring assembly to make sure grommets, sockets, ground strip, cable, and connector are in good condition and will make good electrical and watertight connections when installed. Replace light assembly if components of assembly are defective.
- (4) Check that grommet at rear of lampholder and wiring assembly is cemented securely to body; grommet should make watertight seal in body when installed.

*e. Assembly (fig. 8).*

- (1) Position socket and wiring assembly (7) in housing (4) by pressing assembly into housing until housing grommet at rear of assembly seats tightly in opening at rear of housing.

- (2) Align holes of grommets installed in lamp-holder and wiring assembly with mounting holes in body and secure with two rubber grommets (13) and screws (12).

- (3) Install new door gasket (9) in door (10).

*f. Installation (fig. 8).*

- (1) Position blackout stoplight under rear crossmember and secure with bolt and lock washer.
- (2) Connect cable.
- (3) Test operation of light (refer to Note, paragraph 3-9).
- (4) Position door assembly (10) and gasket (9) on housing (4) and secure with two screws (11), making certain lens is positioned properly (paragraph 3-10b).

**4-25. Composite Stoplight-Taillight Assembly, XM822, (after Serial No. S2669), XM844, XM845, XM847, XM848, XM849, XM859, XM912, XM913**

*a. General.*

- (1) The XM822 (after Serial No. S2669), XM844, XM845, XM847, XM848, XM849, XM850, XM912, and XM913 semitrailers are equipped with two composite tail, stop, turn, and marker lights, which are mounted in the rear crossmember of the dolly frame.

- (2) The two composite lights replace both the two stoplight, taillight assemblies and the blackout stoplight.

*b. Removal (fig. 10).*

- (1) Disconnect four stoplight connectors from chassis harness connectors.
- (2) Remove two screws (7) and washers (6) securing composite stoplight-taillight assembly to mounting bracket in dolly rear crossmember and remove light.

*c. Disassembly (fig. 10)*

- (1) Loosen six captive screws securing lens assembly (2) to body (11) and remove lens assembly and preformed packing (3).
- (2) Further disassembly is not authorized.

*d. Cleaning.*

- (1) Clean exterior of light using clean water and soap solution. Do not use cleaning solvent.
- (2) If necessary to clean interior of body or lens assembly, use clean water and soap solution. Dry thoroughly.

*e. Inspection and Replacement.*

(1) Inspect preformed packing and replace if damaged.

(2) Inspect lens assembly for cracks, warpage, or broken lens. Replace lens assembly if defective.

(3) Inspect wiring and sockets. Replace light assembly if defective.

*f. Installation (fig. 10).*

(1) Position light assembly on mounting bracket and secure with two screws (7) and lock washers (6).

(2) Connect the four wires to the chassis harness connectors.

(3) Test operation of light following the procedure of paragraph 3-11b(1).

(4) Position preformed packing (3) and lens assembly (2) on body (11) and secure with six captive screws.

#### **4-26. ICC Stoplight, XM654**

*a. General.*

(1) The XM654 semitrailer is equipped with two ICC stoplights.

(2) The ICC stoplights are mounted in the rear crossmember of the dolly frame.

*b. Removal (fig. 11).*

(1) Disconnect ICC stoplight connector from 12-volt harness.

(2) Remove three screws (3) and washers (2) securing light to chassis, and remove light.

(3) Carefully pry out retaining ring (7) and remove lens (6) and gasket (5).

*c. Cleaning.*

(1) Clean exterior of light using clean water and soap solution.

(2) Clean lens and interior of light with clean water and soap solution. Dry thoroughly.

*d. Inspection and Repair.*

(1) Inspect lens for cracks or breaks.

(2) Inspect body for dents, warpage, cracks, or other damage.

(3) Straighten dents where possible and repaint.

(4) Inspect gasket.

(5) Replace defective parts.

*e. Installation (fig. 11).*

(1) Position lens (6) and gasket (5) and secure in position with retaining ring (7).

(2) Connect wires.

(3) Position light and secure with screws (3) and washers (2).

(4) Test light, following procedure of paragraph 3-11b (1).

#### **4-27. Dome Light, 24-Volt (all models except XM912, XM913)**

*a. General.*

(1) All models, with the exception of XM654, XM680, XM680E1, XM912, and XM913 semitrailers, are equipped with three 24-volt dome lights with white lens and white lamp.

(2) The XM654 semitrailer is equipped with one 24-volt dome light.

(3) The XM680 and XM680E 1 semitrailer have four 24-volt dome lights: three with white lens and white lamp, and one 24-volt light with red lens.

(4) The XM912 and XM913 semitrailers do not have any 24-volt dome lights.

(5) The three 24-volt dome lights in the XM822 semitrailer are installed in the van, one in each of the three compartments.

*b. Removal (fig. 12).*

(1) Loosen captive screw, allow hinged cover to swing down, and remove lens (4) and rubber seal (5).

(2) Remove four screws (3) securing light to ceiling.

(3) Pull light down and disconnect wires.

*c. Cleaning.*

(1) Clean exterior of body with approved cleaning solvent (paragraph 3-3b).

(2) If necessary to clean interior of body, use clean water and soap solution. Dry thoroughly.

*d. Inspection and Repair.*

(1) Inspect lens for cracks or breaks.

(2) Inspect body for dents and cover for warpage, cracks and damage.

(3) Straighten dents or bulges and repaint.

(4) Inspect rubber seal. If defective, pry out seal from cover and clean bonding surface to remove old bonding material. Install new gasket using proper adhesive material.

(5) Replace all defective parts.

*e. Installation (fig. 12).*

(1) Connect wires.

(2) Position body of light and secure with four screws (3).

(3) Position lens (4) and rubber seal (5) in cover, close cover and tighten captive screw.

#### **4-28. Dome Light, 110-Volt, XM654, XM680, XM680E1, XM822**

*a. General.*

(1) The XM654 semitrailer has 27 dome lights with 75-watt white lamps and 3 dome lights with 40-watt red lamps.

(2) The XM680 and XM680E1 semitrailers have three dome lights with 75-watt white lamps.

(3) The XM822 semitrailer has two dome lights with 75-watt explosion proof lamps installed in the rear of the utility compartment. Two additional dome lights with a white 75-watt explosion proof lamp and a red 15-watt blackout lamp in each light are installed in the front of the utility compartment.

*b. Removal (fig. 13).*

(1) Remove thumbscrews (9) and allow cover (7) to swing down, being careful to hold gaskets (4 and 5) and lens (3) in place in cover.

(2) Remove gaskets and lens from snap-on clips (6).

(3) Remove attaching hardware and remove recessed light box (11).

(4) Unsolder wires at rear of recessed box.

*c. Cleaning, Inspection and Repair.*

(1) Clean interior and exterior with clean water and soap solution. Dry thoroughly.

(2) Inspect lens for cracks and breaks.

(3) Inspect body for dents. Straighten dents and paint.

(4) Inspect cover for warpage, cracks, or other damage. Repair and repaint as required.

(5) Inspect snap-on clips.

(6) Inspect gaskets. Replace if defective.

(7) Replace all defective parts.

*d. Installation (fig. 13).*

(1) Solder wires at rear of recessed light box.

(2) Position recessed box in ceiling opening and secure with attaching hardware.

(3) Insert gaskets (4 and 5) and lens (3) in cover (7) in position behind snap-on clips (6).

(4) Position cover (7) on recessed box (11) and secure with thumbscrews (9).

#### 4-29. Blackout Dome Light, 115-Volt, XM822

*a. General.*

(1) The XM822 semitrailer has three blackout dome lights with 75-watt, 115-volt bayonet base lamps. Two blackout lights are installed in the laboratory compartment and one light is installed in the rear compartment.

(2) The XM680 semitrailer has a wall mounted 110-volt blackout light with a 40-watt red lamp.

*b. Removal (fig. 14).*

(1) Loosen captive screw and allow hinged cover to swing down.

(2) Remove lens (3) and seal (2).

(3) Remove four screws securing light in ceiling and pull light down.

(4) Disconnect wires at jumper assembly (7).

*c. Cleaning, Inspection and Repair.*

(1) Clean all parts with a clean, dry cloth.

(2) Inspect light for dents in reflector and broken or chipped porcelain socket and socket retainer.

(3) Straighten bulges or dents and repaint if necessary.

(4) Inspect cover for warpage, cracks and damage.

(5) Replace lens and seal if necessary.

*d. Installation (fig. 14).*

(1) Connect wires at jumper assembly (7).

(2) Position light in ceiling and secure with four screws.

(3) Position lens (3) and seal (2) in cover, swing cover up and tighten captive screw.

#### 4-30. Fluorescent Lighting Fixture, XM822

*a. General.*

(1) The XM822 semitrailer has six dual 80-watt, 110-volt fluorescent lights.

(2) Four of the fluorescent lights are installed in the laboratory compartment and two are installed in the rear compartment.

*b. Removal (fig. 15).*

**WARNING**

**Use care in handling fluorescent lamps to prevent breakage and possible injury to personnel.**

(1) Remove fluorescent lamps (2) (paragraph 3-17a).

(2) Remove eight screws and washers securing fixture to ceiling.

(3) Disconnect wires and remove fixture (1).

*c. Cleaning, Inspection and Repair.*

(1) Clean exterior of fixture with a rag moistened with approved cleaning solvent (paragraph 3-3b).

(2) Clean interior of fixture with a clean, dry cloth.

(3) Inspect reflector box for warpage, dents, scratches or chipped enamel.

(4) Remove dents, straighten any bend sections and paint if necessary.

(5) Inspect for defective lamp sockets and ballast.

(6) Replace defective components.

*d. Ballast Removal (fig. 15.).*

**WARNING**

**Disconnect the 110-volt power from the semitrailer before attempting to remove ballast.**

(1) Remove mounting screw which retains ballast cover in place at end of lighting fixture. Hinged cover will swing down.

(2) Cut wires on load and line sides of ballast (3) as close as possible to splices.

(3) Remove screws securing ballast and remove ballast.

e. *Ballast Installation (fig. 15).*

- (1) Position ballast (3) and secure with screws.
- (2) Connect and solder wires.
- (3) Close cover and secure with mounting screw.

f. *Installation (fig. 15).*

- (1) Connect and solder wires to fixture (1).
- (2) Position fixture on ceiling and secure with eight screws and washers.
- (3) Replace fluorescent lamps (2) (paragraph 3-17b).
- (4) Close cover and secure with screws.

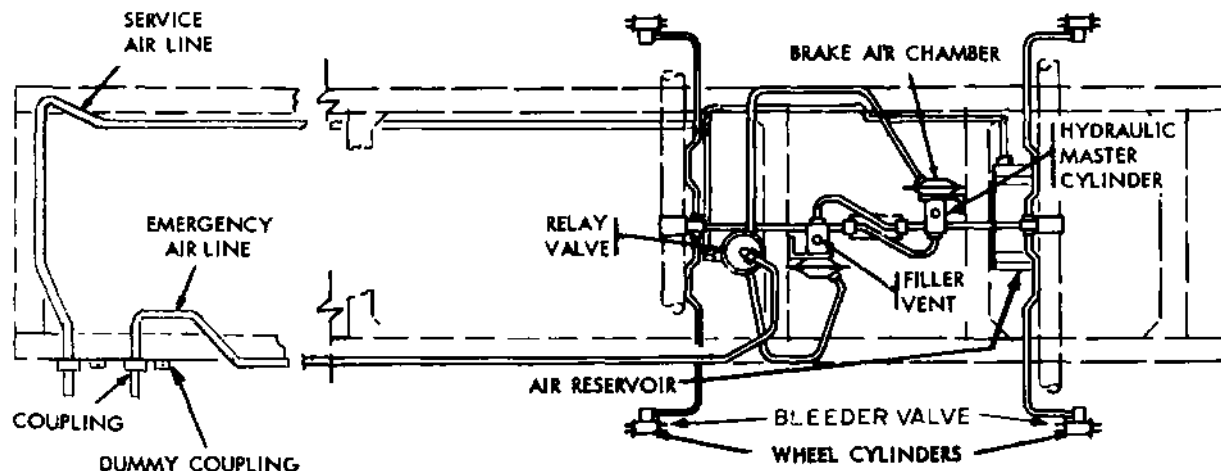
## Section VIII. MAINTENANCE OF BRAKE SYSTEM

### 4-31. General

a. *Scope.* This section covers procedures for removal and installation of brake shoe assembly, relay valves, master cylinder assembly, air chamber assembly, wheel cylinder assembly, hydraulic and air lines, and air filter. This section also covers cleaning, inspection, and repair of hydraulic lines, air lines, and air filters.

b. *Service Brakes.* Service brakes are air-over-hydraulic. Air pressure operates the hydraulic braking system. When the semitrailer braking system is connected to the service braking system of the towing vehicle, the service brake pedal on the towing vehicle operates the brakes on both vehicles.

c. *Service Brake System.* The service braking system consists of the relay valve, air-hydraulic master cylinders, air reservoir, hydraulic wheel cylinders, service air line, emergency air line, air filters (on some models), air hose couplings, dummy couplings, and the internal brake mechanisms that apply the brake linings to the drums (figs. 4-21 and 4-22).



TA 096577

Figure 4-21. Service braking system -- schematic diagram.



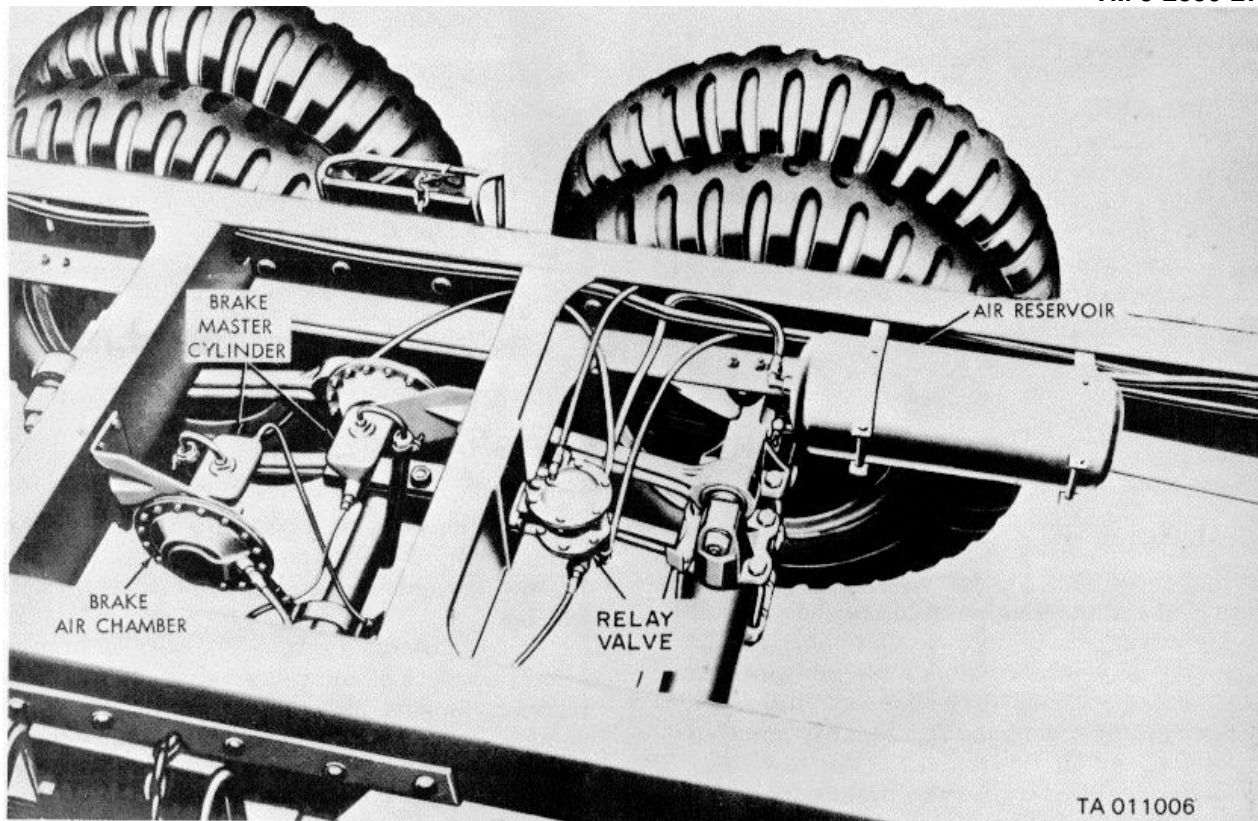


Figure 4-22. Brake system components.

d. *Compressed Air Supply.* To produce and maintain a constant supply of compressed air to control and actuate the hydraulic brake system, the towing vehicle is equipped with an air compressor, air reservoirs, a governor for controlling the air pressure, an air gage and a safety valve. Air lines, air hose, and shut-off valves convey compressed air to the trailer service brake control system.

e. *Functioning of Service Brakes.*

(1) *Semitrailer chassis air reservoir.* When the air hose couplings are connected between the towing vehicle and the chassis, air shutoff valves on the towing vehicle are opened. Air flows through the air line, air filter, and relay valve to fill the air reservoir on the chassis. Air pressure is built up to equal the pressure in the towing vehicle's system.

(2) *Applying the chassis brakes.* When pressure is applied to the brake pedal, air pressure is directed to the relay valve. This valve releases compressed air from the air reservoir to the brake air chamber attached to the hydraulic master cylinder. The air chamber actuates the hydraulic master cylinder to develop hydraulic pressure which moves the wheel cylinder piston in the wheel brake mechanism. These pistons force the lining of the brake shoe against the brake drum.

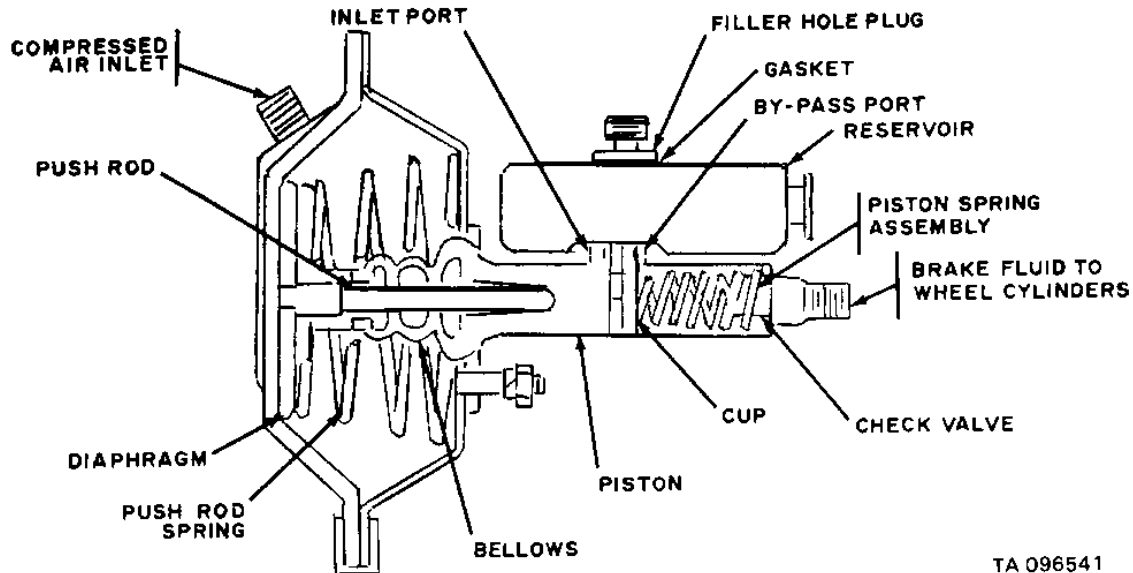
(3) *Releasing chassis brakes.* When the brake pedal is released, a drop in pressure causes the relay valve to release the compressed air from the chassis service brake system, and springs pull the brake shoes away from the drums. The extent of brake release is in direct proportion to the brake pedal movement.

f. *Relay Valve.* The relay valve (figs. 4-21 and 4-22) directly controls the service brakes. This valve controls the flow of air to and from the air reservoir and automatically applies the brakes if the trailer breaks away from the towing vehicle or if there is a serious leak in the emergency air line. Provisions are made for connections to the emergency air line, the service air line, air reservoir, and the brake air chambers and to exhaust compressed air that has been used.

g. *Hydraulic Master Cylinder.* The two hydraulic master cylinders (fig. 4-23) are attached to the two brake air chambers and the assemblies are

mounted on a bracket under the center of the dolly, forward of each axle (fig. 4-46). The master cylinder converts movement of the brake air chamber push rod into hydraulic pressure to apply the brakes. The air chamber push rod contacts a

piston inside the master cylinder. The piston is actuated by pressure from the push rod to create hydraulic pressure in proportion to the pressure applied by the push rod. Rubber bellows protect the push rod and piston end from foreign matter.



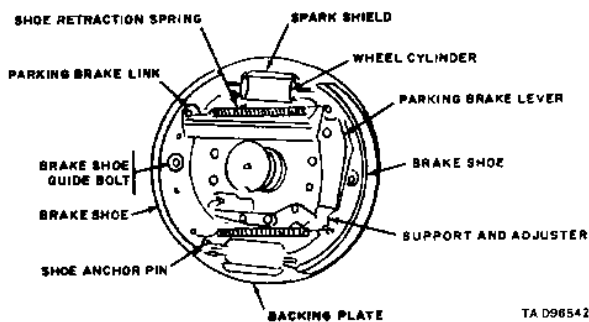
TA 096541

Figure 4-23. Brake hydraulic master cylinder.

*h. Hydraulic Wheel Cylinders.* Two wheel cylinders (fig. 4-24), mounted on the brake backing plate, actuate the shoes outward to force the brake linings against the brake drums. Each wheel cylinder is connected to the hydraulic master cylinder with tubing and is fitted with a bleeder valve at the rear to permit air to be bled from the system.

*i. Air Reservoir.* The air reservoir (fig. 4-22), a metal tank located on the center of the dolly over the rear axle, stores compressed air used to apply the semitrailer chassis brakes. The reservoir is equipped with a drain cock for draining moisture and releasing air pressure if the brakes are locked.

*j. Service Air Line.* The service air line (figs. 4-21 and 4-25) extends from the hose coupling (marked SERVICE) along the inside of the front rail, and along the inside of the right side rail, into the top of the relay valve assembly. It transmits changes in the air pressure which cause the relay valve to function. These changes result from the brake pedal in the towing vehicle being depressed or released.



TA 096542

Figure 4-24. Wheel brake mechanism.

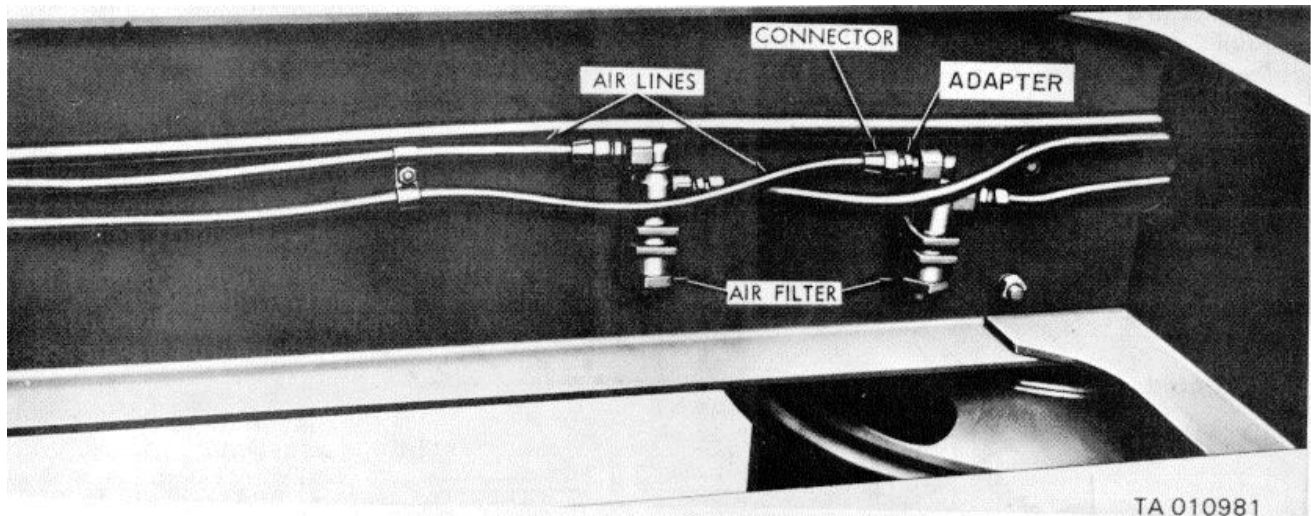


Figure 4-25. Air lines and air filters (some models).

k. *Emergency Air Line.* The emergency air line (fig. 4-21 and 4-25) extends from the hose coupling (marked EMERGENCY) along the inside of the left side rail, through an air filter (on some models) and into the bottom of the relay valve assembly. It transmits compressed air to fill the air reservoir and to maintain the proper air pressure under the control of the relay valve.

l. *Air Filters.* Some model semitrailers incorporate air filters (fig. 4-25) connected into the air lines at the midpoint of the chassis frame to prevent moisture or foreign matter from passing through the air lines. Removable elements, held in place by spring washers and compression springs, are removed by unscrewing a cap nut. A square head pipe plug in the cap nut is removed to drain any moisture.

m. *Wheel Brake Mechanism.* Each wheel brake mechanism (fig. 4-24), located within the brake drum and supported by a brake backing plate, has two brake shoes fitted with brake linings. Two hydraulic cylinders are mounted between the ends of the shoes. Slotted piston rods in each end of the cylinder engage with slots in the end of each brake shoe. Hydraulic pressure forces the cylinder piston outward to apply the brake linings to the drum. Two brake retracting springs draw the shoes away from the drums when hydraulic pressure is not applied and hold it in the retracted or released position.

#### 4-32. Brake Adjustment

##### a. Preliminary Steps.

(1) Release pressure from braking system by opening drain cock on air reservoir.

(2) Place jack under axle and raise rear of semitrailer until tires clear ground.

##### b. Adjustment

##### NOTE

**Try to laterally rock wheel, hub and brake drum assembly on axle spindle. If rocking condition prevails, adjust wheel bearings (paragraph 4-47f(6)) before making brake adjustment.**

(1) Turn brake shoe adjusting screw (fig 4-26), located at top rear face of brake backing plate, clockwise to expand the front brake lining in contact with brake drum until brakes drag slightly when wheel or drum is turned by hand.

(2) Back off adjusting screw just enough to allow drum to rotate freely.

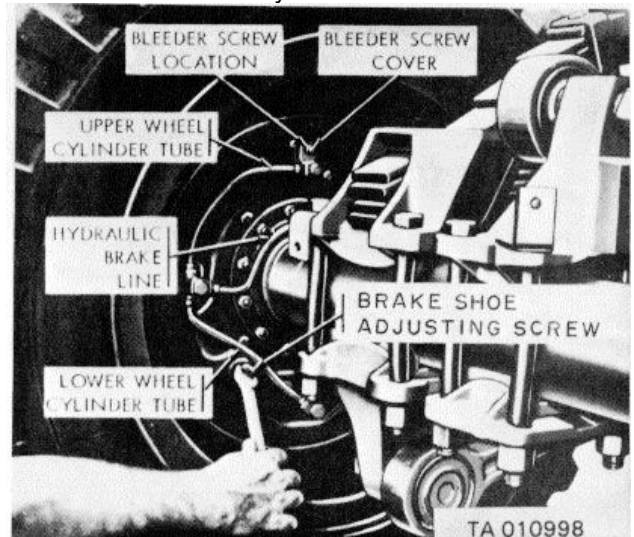


Figure 4-26. Brake adjustment.

(3) Turn the other adjusting screw located at bottom rear face of backing plate clockwise to expand the rear brake lining in contact with brake drum.

(4) Back off adjusting screw just enough to allow drum to rotate freely.

(5) Repeat this procedure on other wheels. Make both adjustments at each wheel as uniform as possible.

(6) Repeat adjustment on other brakes. The shoe adjusting bolt and spring assemblies lock them in set position.

(7) Close drain cock on air reservoir, lower tires to ground and remove jacks.

#### 4-33. Bleeding Hydraulic Brake System

a. *General.* Proper operation of hydraulic portion of brake system requires a solid column of fluid (without air bubbles). Bleed the system to expel any air which may have entered. Need for bleeding is generally indicated by soft brake action. Bleeding can be done manually or with pressure feed filler. Towing vehicle must be connected to semitrailer for manual bleeding operations.

b. *Manual Bleeding (fig. 4-27).*

(1) Connect towing vehicle SERVICE and EMERGENCY brake line couplings to their associated semitrailer couplings and open shutoff valves on towing vehicle air lines.

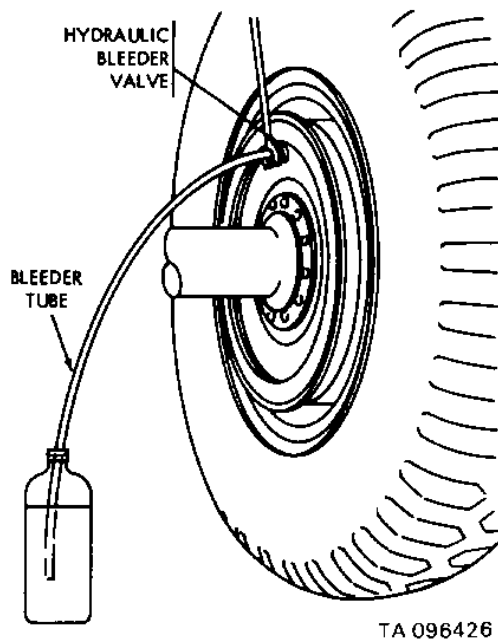


Figure 4-27. Bleeding hydraulic brake system.

(2) Clean bleeder valve and attach tube to bleeder valve (fig. 4-27). Submerge opposite tube end in bottle or jar partially filled with hydraulic brake fluid.

#### CAUTION

**Do not use brake fluid when refilling master cylinder. Use clean fluid as required on the lubrication order (figs. 3-1 and 3-2).**

(3) Fill hydraulic master cylinder with brake fluid as required on lubrication order (figs. 3-1 and 3-2).

(4) Rotate bleeder valve three-quarters of a turn counterclockwise. Depress towing vehicle brake pedal to expel air, close bleeder valve before releasing brake pedal.

#### NOTE

**Do not pump master cylinder dry.**

(5) Expelled air will show as bubbles in brake fluid coming out of tube. Continue step (4) above until air bubbles cease.

(6) Remove bleeder tube.

(7) Repeat steps (1) through (5) on remaining wheel cylinders, replenishing fluid in master cylinder reservoir as necessary.

(8) Close towing vehicle shutoff valves, open air reservoir drain cock and disconnect towing vehicle SERVICE and EMERGENCY brake line couplings from semitrailer couplings.

(9) Install filler plug and vent tube in top of master cylinder reservoir.

(10) Close air reservoir drain cock.

c. *Pressure Feed Filter Bleeding.*

(1) Install pressure feed adapter in hydraulic master cylinder filler plug hole and connect pressure feed hose to adapter. The air pressure to the master cylinder reservoir should be 10 psi to 20 psi and reservoir should contain sufficient fluid to maintain a constant fluid level during bleeding.

(2) Repeat steps (2), (4), (6) and (9) of paragraph 4-33b above, except that manual operation of brake pedal is not required.

#### 4-34. Brake Internal Lever and Connecting Link

#### NOTE

**Some semitrailers do not incorporate internal lever and connecting link.**

a. *Removal (fig. 4-28).*

(1) Open air reservoir drain cock.

(2) Remove wheel from hub (paragraph 3-18a).

(3) Remove hub and brake drum from axle assembly (paragraph 4-47a).

(4) Remove brake retraction spring, slotted washer, flat washer, and spring washer from each brake shoe spring pin.

(5) Remove parking brake internal lever and connecting link from the spring pins.

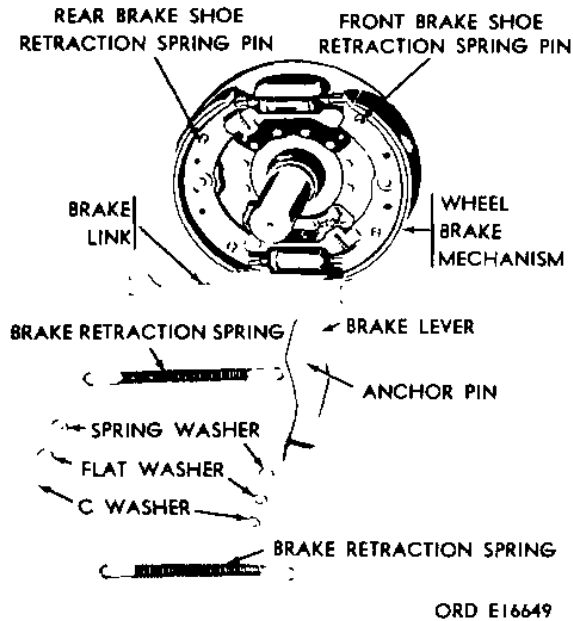


Figure 4-28. Brake internal lever and connecting link.

*b. Cleaning and Inspection.*

(1) Clean all metal parts with approved cleaning solvent (paragraph 3-3b). Dry thoroughly.

(2) Inspect internal lever and connecting link. Replace if necessary.

(3) Check for broken springs. Replace broken or defective spring.

*c. Installation.*

(1) Install connecting link on front brake shoe spring pin.

(2) Install lever on rear brake shoe spring pin.

(3) Engage slot on connecting link with anchor pin on lever.

(4) Install spring washer and flat washer on both pins and secure them with the slotted washer through groove in pins.

(5) Bend ends of slotted washer against pin if necessary.

(6) Install two brake retraction springs.

(7) Install hub and brake drum (paragraph 4-47f).

(8) Install wheel on hub (paragraph 3-18b).

(9) Bleed and adjust brakes (paragraphs 4-32b and 4-33).

**4-35. Brake shoes**

*a. Inspection.*

(1) Inspect brake shoe lining for wear.

(2) If braking surface is near heads of tubular rivets, or grease or hydraulic fluid is evident, replace entire brake shoe and lining assembly.

*b. Removal (fig. 4-29).*

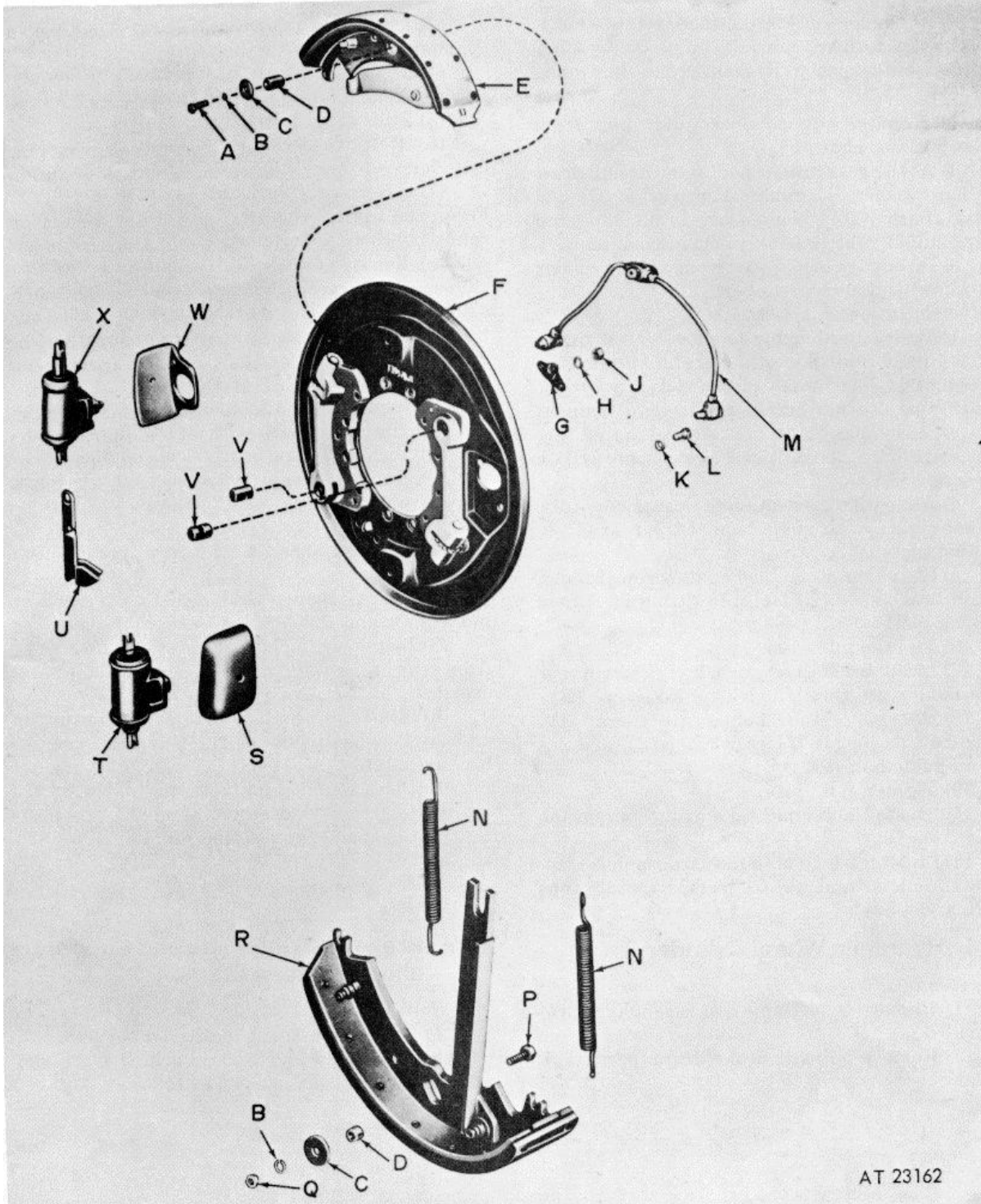
(1) Open air reservoir drain cock.

(2) Remove wheel (paragraph 3-18a).

(3) Remove hub and brake drum (paragraph 4-47a).

(4) Install clamp over end of wheel hydraulic cylinder (X) and (T) to retain wheel cylinder pistons.

(5) Remove helical extension spring (N).



AT 23162

Figure 4-29. Brake assembly - partially exploded view.

A Cap screw	E Brake shoe	J Nut	N Spring	S Shield	W Shield
B Lock washer	F Backing plate	K Lock washer	P Guide bolt	T Cylinder	X Cylinder
C Washer	G Access cover	L Bolt	Q Nut	U Cable ramp	
D Sleeve spacer	H Lock washer	M Tube assembly	E Brake shoe	V Pin	

(6) At the forward brake shoe, remove hexagon nut (Q), lock washer (B), guide bolt washer (C), and sleeve spacer (D) from brake shoe guide bolt (P).

(7) Remove square neck guide bolt from brake backing plate (F).

(8) At the rear brake shoe, remove cap screw (A), lock washer (B), guide screw washer (C), and sleeve spacer (D) which secure brake shoe and intercylinder tube assembly (M) in position.

(9) Disengage brake shoe from wheel cylinder piston rod and anchor support.

*c. Installation (fig. 4-29).*

(1) Position either brake shoe against brake backing plate and slide into place in anchor supports and wheel cylinder piston rods.

(2) Install other brake shoe in same manner.

(3) Assemble guide bolt sleeve spacer (D), guide screw washer (C), and lock washer (B) on cap screw (A).

(4) Aline tube connection fitting, part of tube assembly (M), with guide hole at the rear of the backing plate.

(5) Install the assembled guide screw through slot in brake shoe (E) and into fitting at rear of backing plate.

(6) Tighten guide screw.

(7) Insert brake shoe guide bolt (P) from rear of backing plate through slot in brake shoe (R).

(8) Assemble guide bolt sleeve spacer (D), guide bolt washer (C), lock washer (B), and nut (Q) on guide bolt (P).

(9) Tighten nut.

(10) Install hub and brake drum (paragraph 4-47f).

(11) Install wheel on hub (paragraph 3-18b).

(12) Bleed and adjust brakes (paragraphs 4-32b and 4-33).

#### 4-36. Hydraulic Wheel Cylinder

*a. Removal (fig. 4-29).*

(1) Remove wheel and tire assembly (paragraph 3-18a).

(2) Remove hub and brake drum (paragraph 4-47a).

(3) Unscrew tube assembly bolt from wheel cylinder tube connection fitting.

(4) Remove fluid pressure connection bolt and washer from tube connection fitting.

(5) Pull fitting away from cylinder.

(6) Remove washer between fitting and cylinder.

(7) If removing both wheel cylinders, remove lower and upper wheel cylinder tubes (M) from rear of brake backing plate (F).

(8) Remove two bolts (L) and lock washers (K) securing wheel cylinders (X) and (T) and spark shields (W) and (S) to brake backing plate (F). Slide brake shoes away from wheel cylinder piston rods.

#### CAUTION

**Prevent hydraulic brake fluid from coming in contact with brake linings, either by dripping or from soiled hands.**

(9) Remove wheel cylinder. Remove spark shield from cylinder.

*b. Installation (fig. 4-29).*

(1) Position spark shield over rear of each wheel cylinder.

(2) Place wheel cylinder between ends of brake shoe and through brake backing plate.

(3) Install two lock washers (K) and bolts (L) from rear of backing plate to secure cylinder and spark shield to backing plate.

(4) If installing both cylinders, position upper and lower wheel cylinder tubes against rear of backing plate.

(5) Place washers on bolts, parts of tube assembly (M); then tighten bolts.

(6) Bleed and adjust brakes (paragraph 4-32b and 4-33).

#### 4-37. Brake Backing Plate and Support and Adjuster Assembly

*a. Removal (fig 4-30).*

(1) Scribe alinement marks on support and adjuster assembly and brake backing plate and axle flange to insure proper installation.

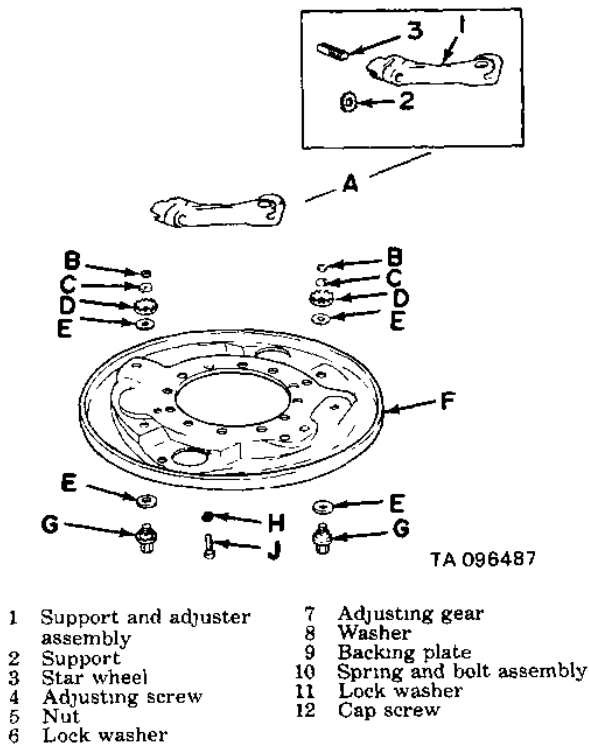


Figure 4-30. Brake backing plate - exploded view.

(2) Remove two nuts, two lock washers and two cap screws at rear of axle flange. This hardware partially secures upper anchor support and adjuster assembly (1) to brake backing plate (9) and brake backing plate to axle flange.

(3) Remove two cap screws (12) and lock washers (11) securing each support and adjuster assembly to brake backing plate.

(4) Carefully lift support and adjuster assembly from backing plate and out of mesh with adjusting gear (7).

#### NOTE

Care should be taken to avoid damage to anchor pins (V, fig. 4-29) which will drop out of support and adjuster assembly as they are removed.

(5) Disconnect hydraulic line at rear of backing plate.

(6) Remove eight nuts, lock washers and screws securing brake backing plate to axle flange.

(7) Slide brake backing plate off axle spindle.

(8) Remove nut (5) and lock washer (6) securing adjusting gear (7) to spring and bolt assembly (10).

(9) Remove gear, two washers (8), and spring and bolt assembly from brake backing plate (9).

#### b. Inspection and Repair (fig. 4-30).

(2) Inspect support and adjuster assembly (1) for breaks or cracks. Replace if defective.

(2) Inspect star wheel (3) for broken or missing teeth. Replace if defective.

(3) Inspect adjusting screw (4) for damaged threads. Replace defective screw.

(4) Inspect brake backing plate (9). Straighten and paint as required. Replace if cannot be made serviceable.

#### c. Installation (fig. 4-30).

(1) Slide one washer (8) on threaded end of spring and bolt assembly (10) and install, threaded end first, through opening at rear of brake backing plate (9).

(2) Install second washer (8) and adjusting gear (7) on threaded end of stud.

(3) Secure gear to stud with lock washer (6) and nut (5).

(4) Following scribed marks made at removal, position brake backing plate (9) against flange of axle and secure with eight cap screws, lock washers, and nuts.

(5) If removed, install anchor pin (V, fig. 4-29) in large opening at end of support and adjuster assembly.

(6) Before installing support and adjuster assembly, make certain adjusting screw (4) is properly positioned in support (2) to receive the brake shoe which seats on its top surface. The adjusting screw should be recessed 1 inch below rim of the support. Rotation of the star wheel (3) will adjust screw to required dimension.

(7) Following scribe markers made at removal, position each support (2) on front of brake backing plate (9). Make certain star wheel meshes with installed adjusting gear.

(8) Secure each support and adjuster assembly to backing plate with two cap screws (12) and lock washers (11).

#### NOTE

The cap screws are installed in mounting holes at extreme ends of support and adjuster assembly.

(9) Install two cap screws (from rear of axle flange) through two center mounting holes of upper support and adjuster assembly. Secure cap screws with two lock washers and nuts.

### 4-38. Hydraulic Master Cylinder

a. *General.* The master cylinder is attached to the brake air chamber and the assembly is mounted on a bracket under the center rear of dolly frame.



*b. Master Cylinder Service.*

(1) Master cylinder service includes only flushing and refilling hydraulic system as follows:

(2) Remove vent tube assembly and filler plug and spacer from top of master cylinder.

(3) Perform procedures of paragraph 4-33b (1), (2), and (4) at each wheel cylinder.

(4) Keep master cylinder reservoir filled with denatured alcohol while brake pedal is slowly pumped until clean fluid passage is observed.

(5) Perform step (5) of paragraph 4-33b, using clean brake fluid specified on lubrication order (figs. 3-1 and 3-2) to force all flushing agent from system.

(6) Add hydraulic fluid to master cylinder reservoir until fluid level is one-half inch to three-eighths of an inch below top of reservoir.

(7) Perform steps (6), (8), and (10) of paragraph 4-33b.

*c. Removal.*

(1) Release air pressure from system by opening drain cock on air reservoir.

(2) Disconnect master cylinder-to-tee flexible hose from rear of cylinder.

(3) Remove three nuts and lock washers which attach cylinder to bracket.

(4) Move cylinder to one side sufficiently to detach rubber bellows.

(5) Remove master cylinder.

*d. Installation.*

(1) Position master cylinder over the three studs and against bracket. Make sure that brake air chamber push rod is properly seated in master cylinder piston.

(2) Install rubber bellows over lip on master cylinder.

(3) Secure cylinder in place with three nuts and lock washers.

(4) Connect master cylinder-to-tee hose to rear of cylinder.

(5) Close drain cock on air reservoir.

#### 4-39. Brake Air Chamber

*a. General.* The brake air chamber is mounted to the front of master cylinder. It converts air pressure into mechanical motion to operate the master cylinder. Excessive brake air chamber push rod travel will result in damage to rubber cup in master cylinder. Insufficient travel will result in ineffective brakes.

*b. Air Chamber Leakage Test.*

(1) With brakes applied, coat air chamber flange with soap and water solution and inspect for leaks.

(2) If a leak is detected, tighten flange nuts evenly and sufficiently to stop leak.

(3) No leakage is permissible.

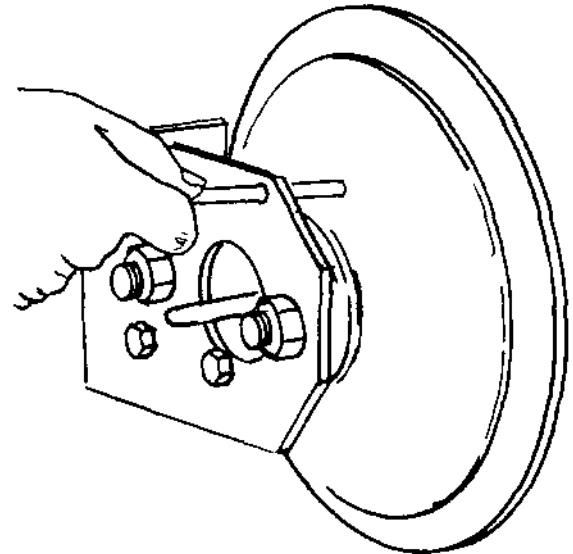
(4) Check non-pressure side of the air chamber by applying soap and water solution to holes in chamber body.

(5) If leaks exist, replace chamber.

*c. Brake Air Chamber Push Rod Travel Test.*

(1) Connect air hose couplings to towing X vehicle.

(2) With brakes released, insert a small rod through one of two inspection holes in left side of brake air chamber (fig. 4-31). Mark rod, indicating depth of penetration when contacting push rod.



TA 096407

Figure 4-31. Testing brake air chamber push rod travel.

(3) Apply brakes and again mark rod at surface of mounting bracket with rod in contact with push rod.

(4) Withdraw rod and measure distance between marks. This indicates amount of piston travel.

(5) Adjust brakes (paragraph 4-32b), if necessary, to permit a minimum of one-half inch to a maximum of seven-eighths of an inch travel.

*d. Removal.*

#### WARNING

**Release air pressure from system by opening drain cock on air reservoir.**

(1) Disconnect air chamber-to-relay valve tube.

(2) Remove two nuts and lock washers attaching air chamber to bracket.

(3) Remove air chamber. Be careful not to damage rubber bellows.

*e. Installation.*

- (1) Position air chamber mounting studs through bracket. Secure with two lock washers and nuts.
- (2) Connect air chamber-to-relay valve tube.
- (3) Close drain cock on air reservoir.
- (4) Add hydraulic fluid to master cylinder (paragraph 4-38b).
- (5) Bleed and adjust brakes (paragraphs 4-32 and 4-33).

**4-40. Air Filter (fig. 4-32)**

**NOTE**  
Some semitrailers are not equipped with air filters.

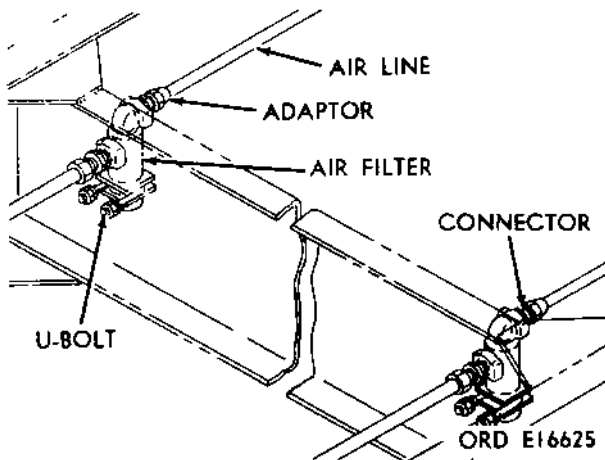


Figure 4-82. Air filter and air lines.

*a. Service.*

- (1) Disconnect intervehicular SERVICE and EMERGENCY brake air hose couplings and open air reservoir drain cock.
- (2) Remove drain plug from bottom of air filter to remove any water accumulation.
- (3) To remove internal parts, hold filter body with wrench, unscrew cover nut and remove gasket, spring, washer and element.
- (4) Clean all metal parts, including body, and rinse element with approved cleaning solvent (paragraph 3-3b).
- (5) If unserviceable components are detected, replace filter assembly.
- (6) Assemble gasket, spring, washer and element on cover nut, insert in air filter body and tighten nut.

*b. Removal.*

- (1) Disconnect intervehicular SERVICE and EMERGENCY brake air hose couplings and open air reservoir drain cock.

- (2) Disconnect two air tubes from air filter fittings.

- (3) Remove two tube fittings from air filter.

- (4) Remove two nuts and washers from U-bolt and remove U-bolt and filter.

*c. Installation.*

- (1) Position air filter on crossmember with arrow on body of air filter pointing in direction of air flow.

- (2) Place U-bolt over air filter through holes in crossmember and secure with two nuts and washers.

- (3) Connect air tubes to air filter fittings.

- (4) Connect intervehicular SERVICE and EMERGENCY brake air hose couplings and close air reservoir drain cock.

**4-41. Relay Valve (fig. 4-33)**

- a. Draining of Moisture.* Remove drain plug from bottom of relay valve (fig. 4-33) to drain accumulated moisture. Replace plug after draining.

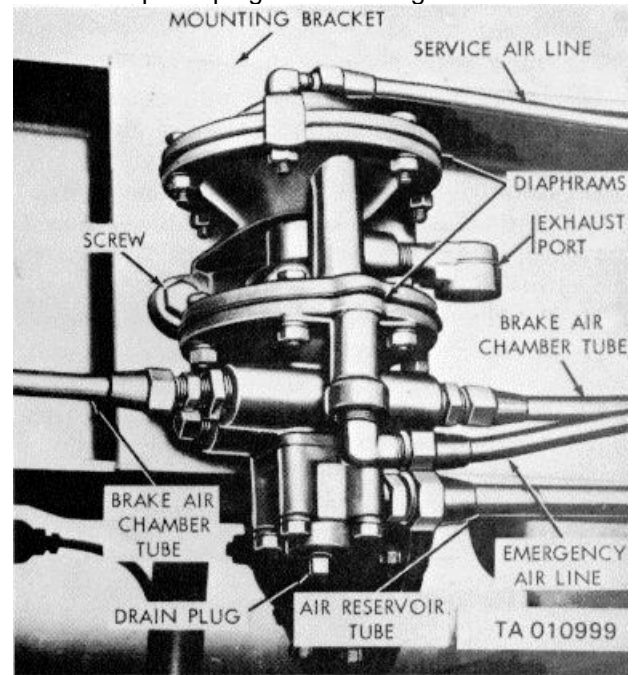


Figure 4-33. Relay valve.

*b. Operating Test.*

- (1) With brake air system of semitrailer connected and charged, check if brakes on wheels apply properly.

- (2) Release brakes and check whether air pressure is being exhausted promptly.

- (3) With semitrailer chassis brake system fully charged, close shutoff valve in emergency line tube on towing vehicle and disconnect

EMERGENCY brake air hose coupling. Check whether semitrailer brakes apply automatically.

(4) Connect EMERGENCY brake air hose to couplings. Open shutoff valve on towing vehicle and check for an automatic release of trailer brakes.

*c. Leakage Test.*

(1) With brake air system of semitrailer connected and charged, apply soap and water solution to cover flanges which hold diaphragms and to SERVICE brake air hose coupling. No leaks should be present.

(2) If a leak is detected, tighten nuts on cover flange and tighten coupling as required.

(3) Coat exhaust port with soap and water solution. Apply brakes and check for leaks.

(4) Release brakes and apply soap and water solution to exhaust port and check for leaks.

(5) With relay valve in EMERGENCY position (paragraph 4-41b(3) above), coat exhaust port with soap and water solution and check for leaks.

(6) Leakage in tests (2), (3), and (4) above must not exceed 1 inch bubble in 2 seconds. If excess leakage is found, replace relay valve.

*d. Removal.*

(1) Open drain cock on air reservoir.

(2) Disconnect emergency and service air tubes, air reservoir air tube and brake air chamber air tubes (fig. 4-33) from relay valve.

(3) Remove three cap screws and lock washers securing relay valve to mounting bracket and remove valve.

*e. Installation.*

(1) Position relay valve on mounting bracket (fig. 4-33) and secure with three screws and lock washers.

(2) Connect air brake chamber tubes, air reservoir tubes, and service and emergency air lines to relay valve (fig. 4-33).

(3) Make operating and leakage tests (b and c above).

#### 4-42. Air Reservoir

*a. Leakage Test.*

(1) With brake system charged, coat drain cock on air reservoir and outside of air reservoir with soap and water and check for air leaks. No leakage is permissible.

(2) Tighten any leaking connection.

(3) Inspect for damage or corrosion.

(4) Replace reservoir if it leaks or if any damage or corrosion is found that would weaken reservoir.

*b. Removal.*

(1) Disconnect air hoses from towing vehicle.

(2) Open drain cock on air reservoir.

(3) Disconnect air tube from relay valve to air reservoir.

(4) Remove four nuts, lock washers, and cap screws securing air reservoir mounting clamps to chassis, and remove air chamber.

*c. Installation.*

(1) Position air reservoir with drain cock on bottom.

(2) Secure air reservoir and clamps with four cap screws, lock washers, and nuts to chassis.

(3) Connect air tube from relay valve to reservoir.

(4) Make leakage test (a above).

*d. Drain Cock.*

(1) *Leakage test.* With air brake fully charged, test for leaks at drain cock using soap solution. Also check for leaks through the body by coating outside of drain cock with soap solution. Leakage in excess of a 3-inch bubble in 3 seconds is not permissible. Leaks due to dirt can be corrected by cleaning and applying a coat of Artillery and Automotive Grease (GAA) on the key before assembly. Leaks due to a damaged key or body require replacement of the drain cock.

(2) *Removal.* Open drain cock to release air from reservoir. Remove drain cock from air reservoir. Clean with approved cleaning solvent (paragraph 3-3b). Inspect for damage or wear. Replace defective drain cock.

(3) *Installation.* When installing drain cock on reservoir, apply sealer tape to pipe thread. Be careful not to bend the tapered key or to damage the body of the drain cock.

#### 4-43. Air Half-Coupling (fig. 4-34)

*a. Removal.*

(1) Hold fitting stationary with a wrench and unscrew half-coupling.

(2) Pry packing ring out of body. Discard packing ring.

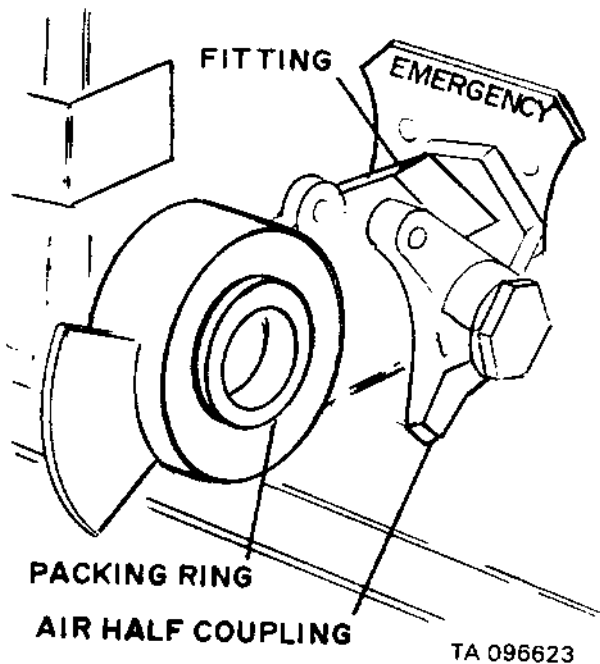


Figure 4-34. Air half-coupling.

**b. Cleaning.**

- (1) Clean mud and dirt from all exposed surfaces with water and a stiff brush.
- (2) Remove grease with approved cleaning solvent (paragraph 3-3b).

**c. Inspection.**

- (1) Inspect half-coupling body for damaged threads or cracks. Replace coupling if damaged.
- (2) Check plunger for ease of operation.
- (3) Inspect pin for tightness.

**d. Installation of Packing Ring**

- (1) Clean coupling packing ring groove.
- (2) Partially collapse ring with fingers and insert one side of ring flange in groove.
- (3) Use blunt nose screwdriver to push ring into place. Face of ring must lie flat with no twist or bulge.

**e. Installation of Half-Coupling.**

- (1) Screw half-coupling over connector assembly externally threaded fitting. Tighten until an airtight seal is made.
- (2) Make sure coupling face is vertical and toward left side of semitrailer.

#### 4-44. Hose, Tubing and Fittings (Air and Hydraulic)

**a. General.** Hydraulic and air tubing and fittings are not ordinarily removed except for

replacement. Replace bent, kinked, or damaged lines and fittings. Keep lines tightly attached. Any disconnection or replacement of hydraulic tubing or fitting will require bleeding of the system (paragraph 4-33).

**b. Serviceability Test.**

- (1) Connect air brake couplings of intervehicular air hose.
- (2) Apply brakes of towing vehicle.
- (3) Coat hose, couplings, and connectors of intervehicular, service and emergency brake air lines with soap solution.
- (4) Check all air lines and connections for leaks. No leakage is permitted.
- (5) Examine hydraulic lines, flexible line and fittings. Tighten fittings if leakage is found. No leakage is permissible.

**c. Removal of Hydraulic Hose.**

- (1) To remove hydraulic hose from wheel cylinder line connecting tee on front or rear axle, disconnect hose at support on tandem suspension assembly first.
- (2) Unscrew tube fitting nut from hose.
- (3) Pry slotted clip off hose and pull hose through hole in support (fig. 4-38).
- (4) Unseat externally threaded end of hose in tee on axle assembly.
- (5) Unscrew the hose from fittings at both ends.

**d. Installation of Hydraulic Hose.**

- (1) Insert externally threaded end of hose in tee on axle and tighten until snug. Do not cross thread.
- (2) Insert internally threaded end of hose through hole in support on suspension assembly.
- (3) Place slotted clip in groove on hose end and press downward until clip stops.
- (4) Insert tube in hose and screw tube fitting nut into hose until snug.
- (5) With brakes applied, wipe all connections clean and check for leaks (b para 4-44).

**e. Removal of Tube Fittings.** Unscrew tube nut from tube fitting. Serviceable tube fittings and tube nuts may be reused but compression sleeves must be replaced.

**f. Installation of Tube Fittings.**

- (1) Cut tubing with hacksaw or tube cutter, making sure end is smooth and cut squarely with tubing wall. Do not crimp or partially close ends.
- (2) Ream and file tubing end to remove burrs. Blow out to remove cuttings or filings.
- (3) Place nut and new sleeve on tube and insert end of tube into recess in fitting body.
- (4) Hold tube at bottom of recess and tighten tube nut sufficiently to prevent leaks. Do not cross thread.

## Section IX. MAINTENANC OF WHEELS, HUBS AND BRAKIE DRUMS

### 4-45. Wheels

Refer to paragraph 3-18 for removal and installation of wheel.

### 4-46. Tires

Refer to TM 9-2610-200-20 for removal, servicing and installation of tires.

### 4-47. Hub and Brake Drum

#### a. General.

(1) Hub. Each hub is mounted on the axle spindle on two tapered roller bearings.

(2) Brake drum. Each brake drum is mounted on the hub. The brake drum is secured to the hub through a dished back front brake drive. A hub cap and hub cap gasket fastened to the outside of the hub exclude moisture and foreign matter.

(3) Bearing. There are two opposed, adjustable, tapered roller bearings in each hub. The bearing cones with rollers are removable for cleaning, inspection, or replacement. The cups are a press fit in the hub.

#### b. Removal of Hub and Brake Drum Assembly from Axle (fig. 40).

(1) Remove screws (24) and lock washers (23) securing hub cap (4) and hub cap gasket (5) to hub (22).

(2) Remove hub cap and gasket. Discard gasket if defective.

(3) Using a screwdriver, lift bent-over locking lugs of key washer (7) to release outer bearing adjusting nut (6).

(4) Using wheel bearing adjusting wrench NSN 5120-00-795-0059 (fig. 87), remove outer bearing adjusting nut (6).

(5) Slide off key washer (7).

(6) Remove inner bearing adjusting nut (6) using wheel bearing adjusting wrench.

(7) Rock hub and brake drum assembly slightly on axle spindle to loosen outer tapered roller bearing (8). Remove bearing.

(8) Pull hub and brake drum assembly from axle.

(9) Remove oil seal (11) and inner tapered roller bearing (8).

(10) Do not remove oil seal sleeve spacer (18) unless damaged or badly worn.

#### c. Removal of Brake Drum from Hub (fig. 40).

### NOTE

**Use an arbor press or equivalent if it is necessary to remove and install ribbed neck bolts (19) or ribbed shoulder bolts (14).**

(1) Remove nuts (21), washers (20) and ribbed neck bolts (19) securing brake drum (12) to back front brake drive (13).

(2) Remove back front brake drive (13) from hub assembly (22) by removing ribbed shoulder bolts (14) and separating back front brake drive from hub assembly.

#### d. Cleaning and Inspection.

(1) Clean all parts thoroughly with approved cleaning solvent (paragraph 3-3b).

(2) Inspect hub carefully for cracks or other indication of damage.

(3) Inspect inside diameter of brake drum for out-of-round or excessive scoring.

(4) Lightly oil rollers of tapered roller bearing and rotate by hand to test for tightness. Replace if there is evidence of scarring, pitting, or excessive wear.

(5) Inspect encased oil seal to make sure contact material is intact and pliable.

(6) Inspect threads on wheel studs in hub, in bearing adjusting nuts, and wheel cap nuts. Replace if threads are damaged.

#### e. Installation of Brake Drum on Hub (fig. 40).

(1) Position hub (22) on back front brake drive (13) and secure with six ribbed shoulder bolts (14).

(2) Position brake drum (12) on back front brake drive (13) and secure with 18 ribbed neck bolts (19), washers (20), and nuts (21).

#### f. Installation of Hub and Brake Drum Assembly on Axle (fig. 40).

(1) Replace oil seal sleeve spacer (18) if it has been removed.

(2) Press or carefully tap oil seal (11) into place using a block of wood. Do not hammer directly on seal.

(3) Pack inner tapered roller bearing (8) with grease (figs. 3-1 and 3-2) and install on axle spindle, adjacent to oil seal (11), with large outside diameter of bearing toward oil seal. Tap bearing gently, if necessary, with a brass drift or wood block.

(4) Slide hub and drum assembly on axle spindle being careful not to damage seal (11).

(5) Pack outer tapered roller bearing (8) with grease (figs. 3-1 and 3-2) and insert over spindle and into hub. Install inner adjusting nut (6), but do not tighten.

(6) While turning hub slowly, tighten inner bearing adjusting nut, using wheel bearing adjusting nut wrench, until hub binds on spindle. Back off nut about one-eighth turn. Check adjustment by attempting to rock hub on spindle. If bearings are properly adjusted, movement of brake drum in relation to top edge of backing plate will scarcely be visible and brake drum will turn freely. If movement is excessive (more than one thirty-second of an inch), further adjustment is required.

(7) Install nut locking key washer (7) on spindle.

#### NOTE

**With a minimum of movement, adjust bearing adjusting nut (6) so that flats of nut will mate with locking lugs on key washer (7).**

(8) Install outer bearing adjusting nut (6) using wheel bearing adjusting nut wrench, drawing it up tightly against nut locking key washer (7). Do not disturb bearing adjustment.

(9) Bend one or two locking lugs of key washer (7) over outer and inner adjusting nuts (6).

(10) Recheck wheel bearing adjustment ((6) above).

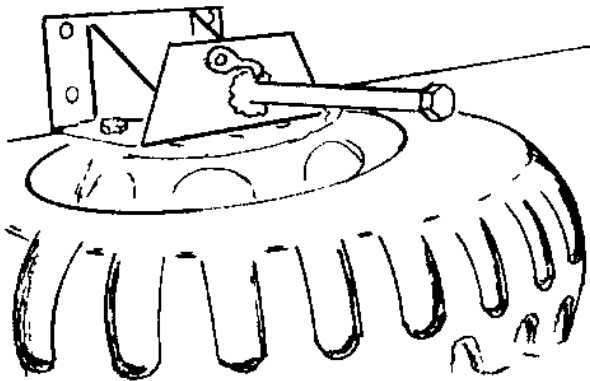
(11) Position hub cap (4) and gasket (5) and secure with three screws (24) and washers. (23).

(12) Adjust brakes (paragraph 4-32).

### Section X. MAINTENANCE OF SPARE WHEEL CARRIER

#### 4-48. Spare Wheel Carrier (fig. 4-35)

a. *General.* The spare wheel carrier is mounted on the side of the frame of the semitrailer chassis. The carrier has a windlass to facilitate the raising and lowering of the spare wheel and tire.



TA 096429

Figure 4-35. Spare wheel carrier.

#### b. Removal (fig. 43).

(1) Remove spare wheel and tire from carrier (paragraph 2-9a).

(2) Remove four nuts (1), lock washers (2) and screws (3) securing carrier to mounting bracket.

(3) Remove carrier.

c. *Cleaning.* Remove all surface dirt with water and stiff brush.

#### d. Inspection and Repair.

(1) Check upper member (7) for cracks or breaks in welds. Straighten member and weld cracks.

(2) Check ratchet wheel (5) for wear and alignment. Check weld of ratchet and nut on shaft for cracks or undue teeth wear. Reweld to shaft if necessary.

(3) Replace ratchet wheel by removing cotter pin (6) and wire rope (11). Slide worn ratchet wheel out and new one in; then secure with cotter pin (6) and attach wire rope (11).

(4) Check pawl (14) for wear and looseness of rivet (15) which attaches pawl to upper member. Replace pawl and/or replace rivet if necessary.

(5) Check lower member (9) for dents or twisted parts.

(6) Check U-bolts (10) for tightness. Check attaching nuts (13) for stripped threads or looseness and replace if necessary.

(7) Check wire rope (11) for frayed wire or undue wear and replace if necessary (8) Repaint and repair damaged surfaces where paint has been removed.

#### e. Replacement of Wire Rope (fig. 43).

(1) Release wire rope (11) from lower member (9) by removing four nuts (13) and lock washers (12) from U-bolts (10).

(2) Draw wire rope (11) from holes in shaft.

(3) Make a wire rope with ferrules to prevent raveling, from 6 feet of three-sixteenths of an inch diameter, 7 by 19 aircraft type, preformed wire rope.

(4) Thread through holes in ratchet wheel (5) until both ends are of equal length.

(5) Cross ends of wire rope under lower member.

(6) Twist ends in loose, single knot across

lower member in such a manner that both ends may be clamped with both U-bolts (10).

(7) Install lock washers (12) and nuts (13) on two U-bolts (10).

*f. Installation (fig. 43).*

(1) Aline four holes in carrier upper member with holes in mounting bracket.

(2) Secure carrier to mounting bracket with four screws (3), lock washers (2) and nuts (1).

(3) Raise spare wheel and tire carrier (paragraph 2-9b).

## Section XI. MAINTENANCE OF LEVELING JACK AND LANDING GEAR

### 4-49. Leveling Jack

*a. General.*

(1) All semitrailers, except for XM738, XM739, and XM739E1, have two leveling jacks located at the rear of the semitrailer (fig. 2-7).

(2) The XM738, XM739, and XM739E1 semitrailers have four leveling jacks, two at the rear and two at the center of the semitrailer.

(3) The leveling jacks are used to level and stabilize the semitrailer.

*b. Removal (fig. 46).*

(1) Remove two cotter pins (7), washers (8), and headed pins (9).

(2) Release pin and chain assemblies (11) and remove braces (2 and 10).

(3) Remove cotter pin (6) and headed pin (3) and washers (5).

(4) Release pin and chain assembly (12) and remove leveling jack housing (4).

*c. Inspection.*

(1) Inspect housing for damage.

(2) Check operation of jack screw. Lubricate as required (figs. 3-1 and 3-3). Replace leveling jack if jack screw is defective.

(3) Inspect pin and chain assemblies for wear and damage. Replace defective parts.

*d. Installation (fig. 46).*

(1) Position housing (4) under dolly rear crossmember and secure with headed pin (3), washer (5), cotter pin (6) and pin and chain assembly (12).

(2) Position braces (2 and 10) and secure with two pin and chain assemblies (11), two headed pins (9), washers (8) and cotter pins (7).

### 4-50. Center Leveling Jack, XM738, XM739, XM739E1

*a. Removal (fig. 47).*

(1) Remove three cotter pins (2), washers (3), and straight headed pins (1) securing top of brace assembly (6) to chassis.

(2) Release three pin and chain assemblies (13) securing bottoms of three brace assemblies to housing and remove three brace assemblies (6).

(3) Remove cotter pin (8), washer (7) and straight headed pin (9) from top of housing assembly.

(4) Release pin and chain assembly (4) and remove housing assembly (10).

*b. Inspection.* Follow the procedure of paragraph 4-49c.

*c. Installation (fig. 47).*

(1) Position housing assembly (10) under chassis and secure with straight headed pin (9), washer (7), and cotter pin (8). Install pin and chain assembly (4) on housing assembly.

(2) Position three braces (6) and secure with three straight headed pins (1), washers (3), and cotter pins (2) at top of brace assemblies.

(3) Install three pin and chain assemblies (13) at bottom of brace assemblies through housing.

### 4-51. Rigid-Type Landing Gear (all models except XM847, XM848, XM849, XM850, XM912, XM913)

*a. General.*

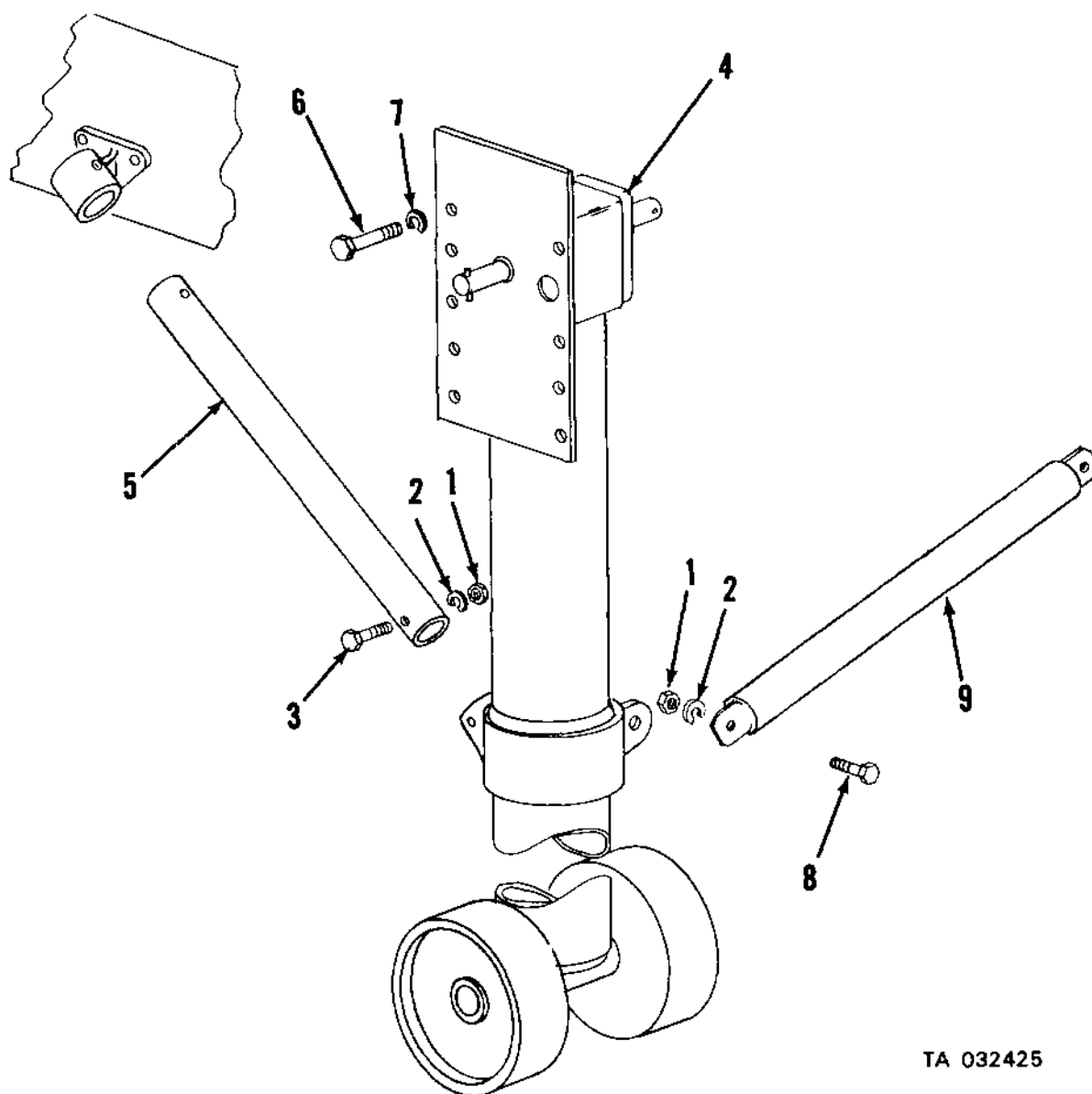
(1) The XM574, XM574E1, XM680, XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824, XM844, and XM845 semitrailers incorporate a retractable two-speed, crank-type, non-rotating, adjustable landing gear with wheels (fig. 2-1).

(2) The XM654 semitrailer incorporates a retractable, two-speed, crank-type, non-rotating, adjustable landing gear with a landing gear foot (fig. 2-2).

(3) The landing gear is used to support the semitrailer when not coupled to a towing vehicle. It is also used to raise and lower the chassis when preparing to couple or uncouple the semitrailer from the towing vehicle.

*b. Removal (fig 4-36).*

(1) Couple semitrailer to towing vehicle. raise landing gear leg to remove semitrailer weight from leg.



TA 032425

- |                 |                   |
|-----------------|-------------------|
| 1. Nut          | 6. Cap screw      |
| 2. Lock washer  | 7. Lock washer    |
| 3. Cap screw    | 8. Cap screw      |
| 4. Leg assembly | 9. Diagonal brace |
| 5. Side brace   |                   |

Figure 4-36. Removing rigid-type landing gear.

(2) Remove two nuts (1), lock washers (2) and cap screws (3) securing side brace (5) to chassis and leg assembly (4). Remove brace.

(3) Remove two nuts (1), lock washers (2) and cap screws (8) securing diagonal brace (9) to chassis and leg assembly (4). Remove brace.

(4) Remove nine cap screws (6) and lock washers (7) securing landing gear leg mounting flange to chassis.

(5) Withdraw landing gear leg (4) toward : enter of van until crankshaft clears chassis and remove leg from under van.

c. *Cleaning and Inspection.*

(1) Clean mud and dirt from all exposed surfaces with water and a stiff brush.

(2) Check operation of landing gear leg. Lubricate as required (figs. 3-1 and 3-3).



- d. Installation (fig. 4-36).
  - (1) Position landing gear leg assembly (4).
  - (2) Secure leg assembly mounting flange to chassis with nine cap screws (6) and lock washers (7).
  - (3) Position diagonal brace (9) and secure to chassis and leg assembly (4) with two cap screws (8), lock washers (2) and nuts (1).
  - (4) Position side brace (5) and secure to chassis and leg assembly (4) with two cap screws (3), lock washers (2) and nuts (1).
  - (5) Lower landing gear leg and remove towing vehicle.
- e. *Removal of Landing Gear Wheels (fig. 48).*
  - (1) Couple semitrailer to towing vehicle. Raise landing gear leg to remove semitrailer weight from leg.
  - (2) Remove nut (28) and bolt (25) securing wheels (23) to axle (27). Remove wheels, axle and wheel caps (26).
- f. *Cleaning and Inspection.*
  - (1) Clean mud and dirt from exposed surfaces with water and a stiff brush.
  - (2) Check for cracks, chipped edges or breaks. Replace defective parts.
  - (3) Check axle for straightness. Replace if it cannot be straightened.
- g. *Installation of Landing Gear Wheels (fig. 48).*

**NOTE**

**During installation, lubricate wheels and axle, using GAA Grease.**

- (1) Position wheels (23) on axle (27). Place one wheel cap (26) against head of bolt (25). Insert bolt and cap through axle.
- (2) Insert other wheel cap (26) and nut (28) on outer end of bolt. Tighten nut.
- (3) Lower landing gear leg and remove semitrailer from towing vehicle.

**Section XII. MAINTENANCE OF SPRINGS AND TORQUE RODS**

**4-53. Springs, XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824**

**4-52. Swing-Up Landing Gear, XM847, XM848, XM849, XM850, XM912, XM913**

- a. *General.*
  - (1) The XM847, XM848, XM849, XM850, XM912, and XM913 semitrailers have two swing-up landing gears (fig. 2-3).
  - (2) The two swing-up landing gears are separately operated two-speed landing gears, located at the drop, in the front of the semitrailer.
  - (3) The landing gears swing into horizontal position for aircraft loading only.
- b. *Removal (fig. 49).*
  - (1) Couple semitrailer to towing vehicle, or block semitrailer for support.
  - (2) Using crank assembly (1), retract landing gear leg (18) enough to clear the ground.
  - (3) Unfasten four pin and chain assemblies (9, 12, and 17) and remove two braces (10 and 11).
  - (4) Remove three nuts (7), lock washers (8) and cap screws (19) and remove landing gear.
- c. *Cleaning and Inspection.*
  - (1) Clean mud and dirt from all exposed surfaces with water and a stiff brush.
  - (2) Check operation of landing gear leg. Lubricate as required (fig. 3-1). Replace landing gear if there is persistent binding.
- d. *Installation (fig 49).*
  - (1) Position landing gear and secure in place with three screws (19), lock washers (8), and nuts (7).
  - (2) Position two braces (10 and 11) and secure with four pin and chain assemblies (9, 12, and 17).
  - (3) Using crank assembly (1), lower landing gear leg to ground.
  - (4) Remove towing vehicle.

- a. *General.*
  - (1) The XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822, XM823, and XM824 semitrailers are equipped with tandem suspension (fig. 4-37).

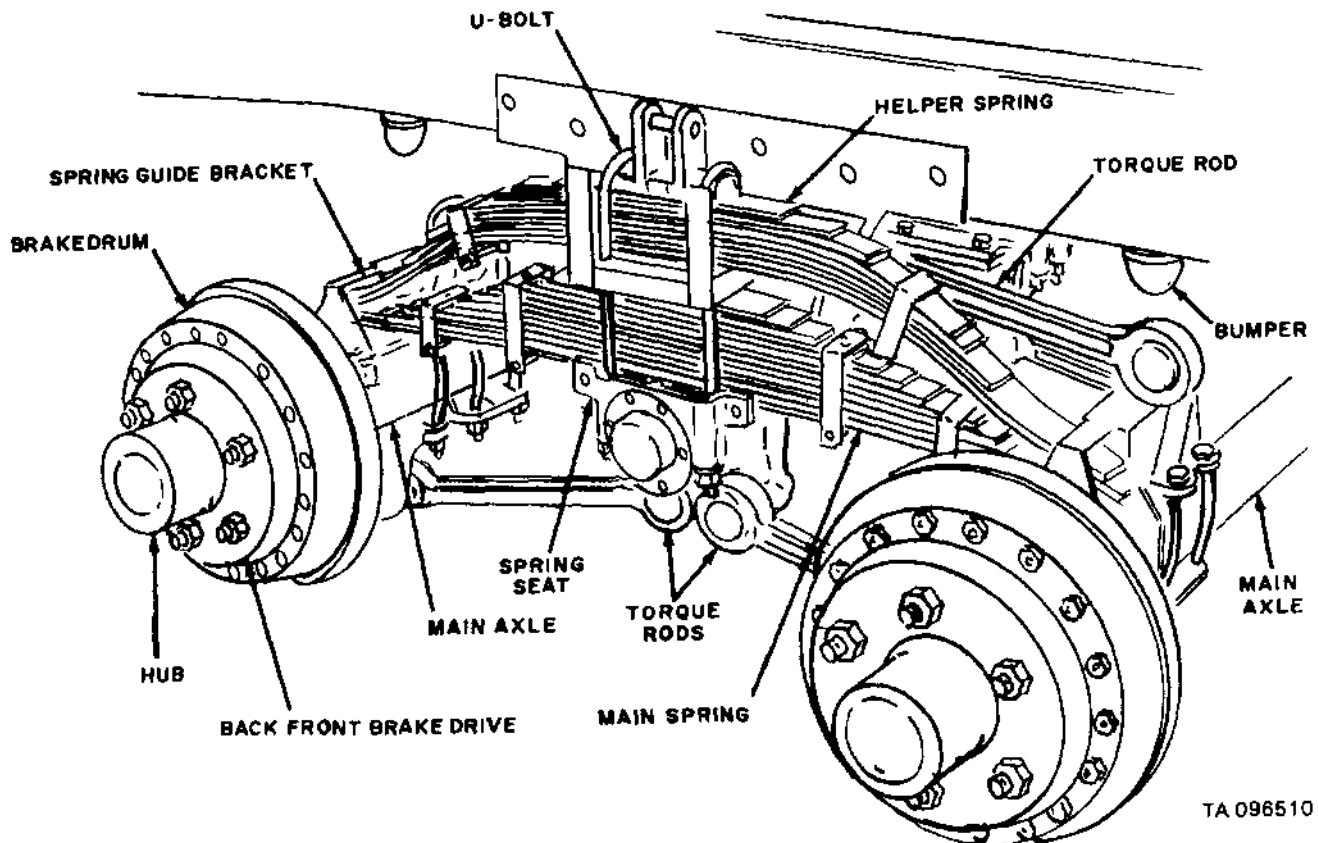


Figure 4-37. Tandem suspension system, XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824

(2) These semitrailers have a single point, two-spring, tandem axle suspension which utilizes parallelogram type linkage.

(3) Two helper springs are mounted directly over two main springs to provide added support under heavy loads.

(4) The helper spring assembly consists of eight spring leaves. The main spring assembly consists of 12 spring leaves.

(5) Each end of the main spring assembly rests on wear pads mounted on spring guide brackets attached to the axles.

(6) The tandem suspension is the connecting member between the axles and the frame. It acts to absorb the shock loads imposed by the road.

#### b. Removal.

(1) Support front of vehicle by extending landing gear support legs. Using the leveling jacks, raise rear of vehicle enough to relieve tires of ground contact. Support vehicle with support stands.

(2) Remove wheel and tire assemblies (paragraph 3-18). Remove wheel chock from stowage support.

(3) Place jack under axle and bracket assembly (fig. 4-38) and raise chassis just far enough to take weight of springs off front and rear axle spring brackets.

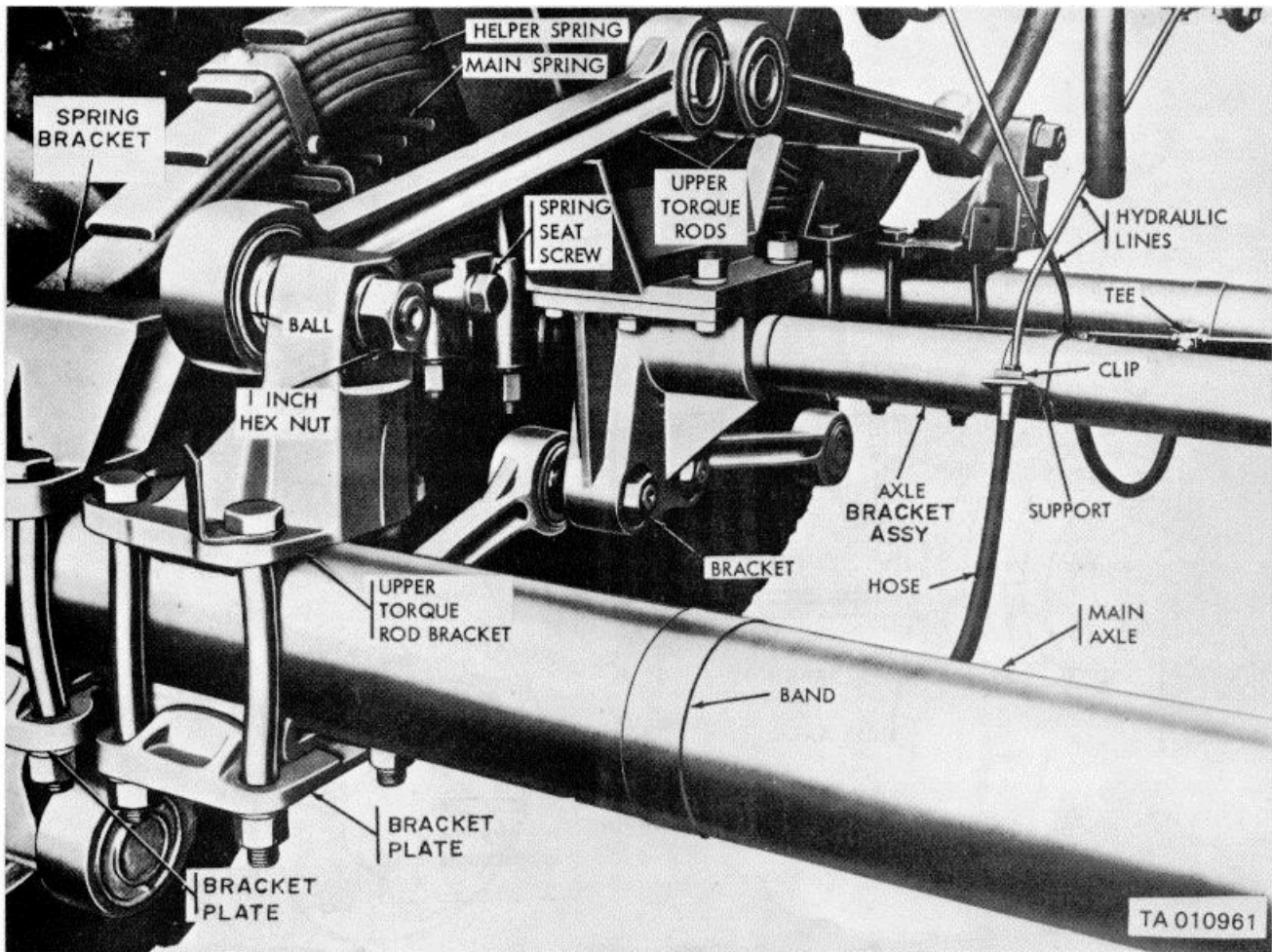


Figure 4-38. Tandem suspension system-underside view

(4) Remove four nuts and lock washers (fig. 4-39) from two U-bolts securing upper spring seat, helper spring assembly, spacer and wheel chock support and main spring assembly to lower spring seat. Remove U-bolts.

(5) Remove upper spring seat (fig. 4-39) complete with attached retaining chain and wheel chock.

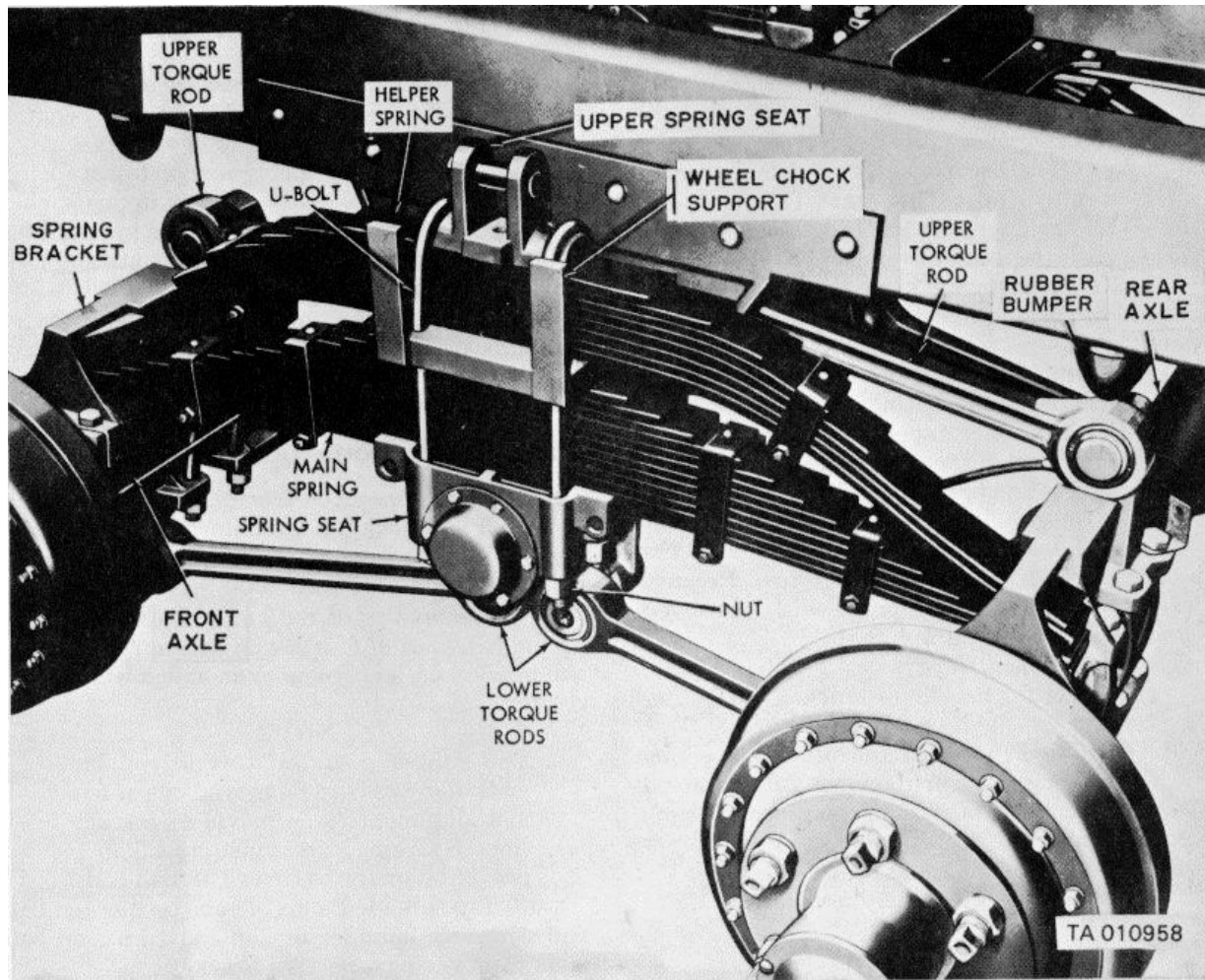


Figure 4-39. Tandem suspension system-installed view.

(6) Loosen, but do not remove, two cap screws (fig. 4-38) which clamp lower spring bracket to main spring assembly.

(7) Move main spring assembly, spacer and helper spring assembly (fig. 4-39) as a unit toward the rear of the semitrailer until the front end of the springs clears the front axle spring bracket.

(8) Remove helper spring assembly by lifting front end of spring up and forward far enough for rear end of spring to clear rear axle bracket.

(9) Remove spacer and support by lifting up and away from top of main spring assembly.

(10) Remove main spring assembly by the same procedure used for removal of helper spring assembly (step 8 above).

c. *Installation.* Install spring assemblies and component parts in the reverse order of the pro-

cedure in paragraph a above. Torque U-bolt nuts to 225-280 lb-ft.

#### 4-54. Spring Seat

##### a. Removal (fig. 26)

##### NOTE

The key letters shown below in parentheses refer to figure E-26 except where otherwise indicated.

(1) Support weight of semitrailer by jacking up axle and bracket assembly at end from which spring seat is to be removed. (fig 4-39).

(2) Remove four nuts and lock washers from two U-bolts and remove U-bolts (fig. 4-39). Lift off spring seat on top of spring assembly (fig. 4-39).

(3) Loosen two bolts (13) from inner face of spring seat (15). Raise ends of main axles until bottom of spring assembly and center bolt clear top of spring seat.

(4) Remove six bolts (22) and lock washers (21) from access cover (20). Remove access cover and gasket (19). Discard gasket if defective.

(5) Remove adjusting nuts (17) and key washer (18) using wrench NSN 5120-00-795-0059. Remove outer tapered bushing (11).

(6) Remove spring seat assembly (15) by using slight rocking motion (left and right) while carefully sliding seat out and away from axle and bracket assembly (1). It is possible inner bearing cup (12) will remain in spring seat.

(7) Remove inner tapered bushing (11), encased seal (9), packing retainer (8), flat washers (6 and 7) from axle and bracket assembly (1). Discard seals.

b. *Cleaning.* Clean mud and dirt from all exposed parts with water and stiff brush. Remove grease from spring seat parts with approved cleaning solvent (paragraph 3-3b).

c. *Inspection and Repair*

(1) Inspect for broken or cracked parts. Replace broken, cracked, or defective parts.

(2) Check bearing seats and oil seal surface on bracket for roughness or damage. File or grind smooth high spots, burrs, or roughness. Check that parts meet the requirements of repair standards listed in table 6-1 and figure 6-1.

(3) Replace any part that does not meet these standards.

d. *Installation (fig. 26).*

(1) Prior to installation of spring seat assembly, saturate encased seal (9) with lubricating oil (fig. 3-1). Pack tapered bushings (11) with automotive grease (fig. 3-1).

(2) Install flat washers (6 and 7), encased seal (9) and inner tapered bushing (11) on axle and bracket assembly (1).

(3) Install inner bearing cup (12) in spring seat (15) and slide seat on axle and bracket assembly (1) against flat washer (7) and seal (9) and over flat washer (6).

(4) Install outer bearing cup (12), outer tapered bushing (11) and inner adjusting nut (17). Using wrench NSN 5120-00-795-0059, tighten inner adjusting nut (17) to a torque of 70 lb-ft. Back off approximately one-fourth of a turn. Spring seat (15) should turn freely without lateral movement.

(5) Install key washer (18) and secure with outer adjusting nut (17), tightening to a torque of 150 lb-ft. Peen outer edges of lock nut over no less than two flats of each adjusting nut.

(6) Install access cover (20) with new cover gasket (19) and secure with six bolts (22) and lock washers (21).

(7) Lower main axles until spring assembly seats in top of spring seat. Spring assembly center bolt must fit into recess in top of spring seat.

(8) Position upper spring seat on top of spring assembly. Install two U-bolts over upper spring seat and down through four holes in spring seat assembly. Secure U-bolts with four nuts and lock washers (fig. 4-39). Torque nuts to 255-280 lb.-ft.

(9) Tighten two bolts (13) on inner face of spring seat (15) with a torque of 280-365 lb-ft.

(10) Remove jack supporting axle and bracket assembly.

#### 4-55. Torque Rods (fig. 4-38)

a. *Lower Torque Rod Removal.*

(1) Place jack under axle and bracket assembly. Raise axle enough to relieve spring load from front and rear main axle brackets.

(2) Remove eight nuts and lock washers securing ball ends of four lower torque rods to axle and bracket assembly and main axle lower torque rod brackets.

**NOTE**

**The rubber-mounted torque rod ball ends allow rods to be moved out of normal alignment for removal or installation. Extreme care must be taken to prevent damage to thread on ball ends.**

(3) Tap threaded ends of each torque rod ball end with soft hammer or soft bar to loosen ball ends from their respective brackets.

(4) Remove lower torque rods from their respective mountings by prying rod ends out and away from axle bracket assembly and prying in and away from main axle lower torque rod brackets.

b. *Lower Torque Rod Installation.*

(1) Make sure ball ends and mounting holes in brackets are free of dirt. Follow instructions of Note (para 4-55a).

(2) Install lower torque rods in the reverse order of the procedure in paragraph 4-55a.

c. *Upper Torque Rod Removal.*

(1) Raise and support vehicle (para 4-55a(1)).

(2) Remove left wheel and tire assemblies (paragraph 3-18). Remove wheel chock from stowage support.

(3) Remove left spring assemblies (steps (3) through (10), paragraph 4-53b).

(4) Raise front and rear axles to relieve weight of each axle from upper torque rods. Provide a secure means of support to hold this position.

(5) Remove four nuts and lock washers securing two upper torque rods to chassis suspension bracket and upper torque rod brackets on front and rear main axles (fig. 4-38).

(6) Loose torque rod ball ends (para 4-55a(3)).

(7) Remove eight nuts, lock washers and bolts securing upper torque rod brackets to front and rear axles.

(8) Remove torque rod from frame suspension bracket by prying rod end in and away from bracket.

(9) Remove upper torque rod brackets and torque rods by lifting up and away from locating pins on axles.

(10) Remove torque rods from brackets by prying rod ends away from brackets.

*d. Upper Torque Rod Installation*

(1) Make sure ball ends and mounting holes in brackets are free of dirt. Follow instructions of Note (para 4-55a).

(2) Install upper torque rods in the reverse order of the procedure in paragraph 4-55c.

(3) Torque each torque rod nut (para 4-55c(5)) to 570-630 lb-ft.

(4) Torque each upper torque rod bracket nut (para 4-55c(7)) to 225-280 lb-ft.

### Section XIII. MAINTENANCE OF AIR SUSPENSION SYSTEM

#### **4-56. Air Suspension System, XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913**

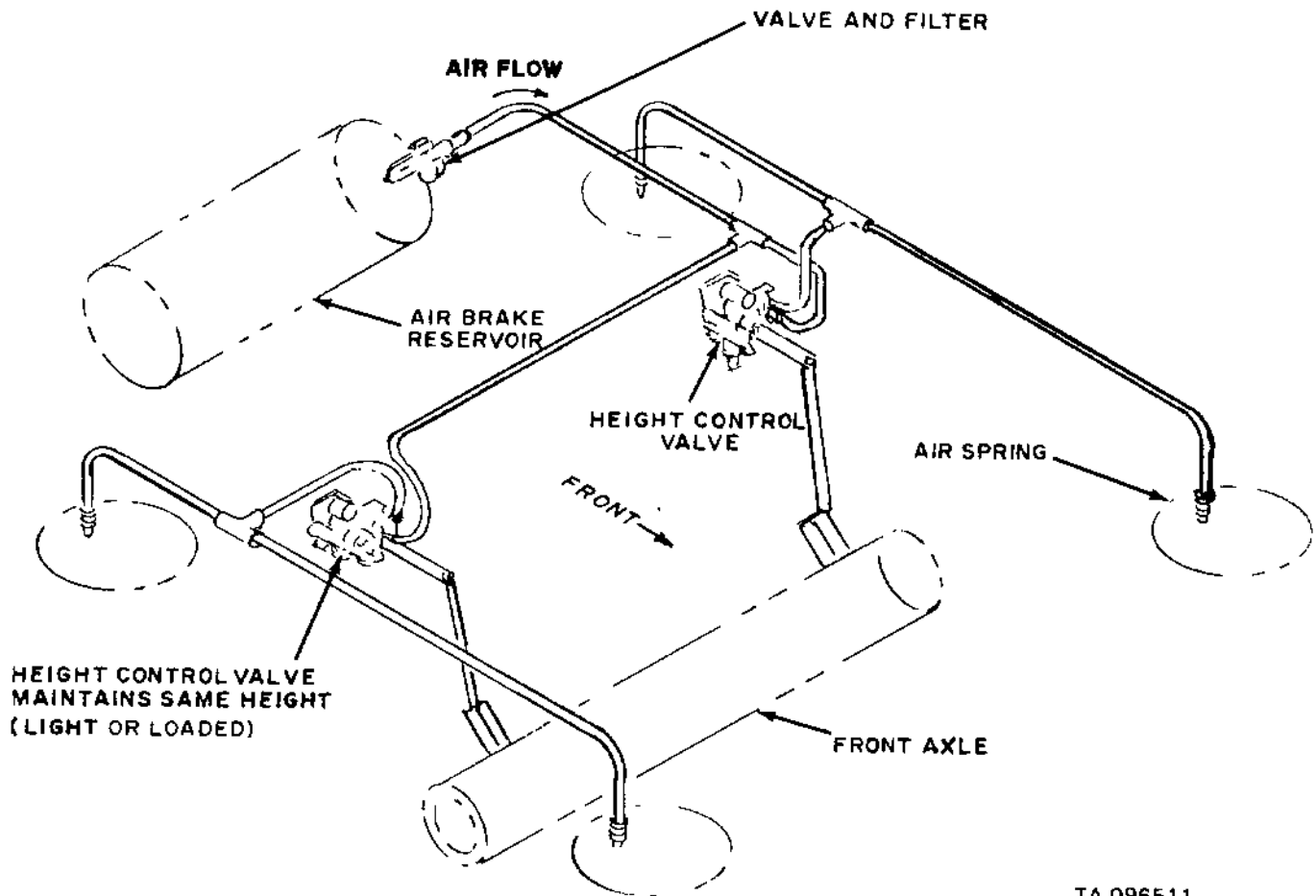
*a. General.*

(1) The XM844, XM845, XM847, XM848, XM849, XM850, XM912, and XM913 semitrailers

are equipped with air ride suspension (fig. 4-40).

(2) The air suspension system uses pressurized air drawn from the conventional towing vehicle air system to fill the air springs. Automatic valve control regulates the air pressure required for varying loads and maintains a constant vehicle ride height at all times.

BRAKE PROTECTION VALVE AND  
FILTER MAINTAINS SAFE AIR  
BRAKE PRESURE AND CLEANS  
AIR. SET TO 65 P.S.I. AT FACTORY



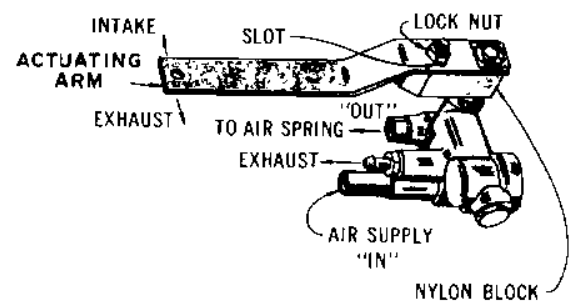
TA 096511

Figure 4-40. Air suspensions system, XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913.

(3) The regulated air control provides a cushioned ride through varying load conditions. A valve and filter assembly is installed in the line at the air brake reservoir. These components maintain safe air brake pressure and clean air.

(4) Sage air brake pressure of 65 psi is automatically maintained by brake protection valve in the event of air loss due to a failure in the air system.

(5) The air suspension is designed to operate at a specific ride height. Height control valves (fig. 4-41) are used to maintain the proper axle-to-frame relationship necessary to regulate ride height. The valves automatically regulate air to or from air springs.



TA 096446

Figure 4-41. Height control valve.

(6) A right and left valve is used in the suspension system. Both valves are linked to the rear axle.

(7) The height control valves operate each side independently, thus maintaining a side-to-side semitrailer level condition at all times.

(8) The air suspension system is designed to operate at a set ride height. The two height control valves are used to maintain the proper axle-to-frame relationship necessary to regulate ride height.

(9) Loss of air pressure or air spring deflection by off center loading causes actuating arm to move up.

(10) Up movement of actuating arm opens the intake valve and allows supply air to pass through to the air spring serviced by that valve.

(11) Down movement of actuating arm opens the exhaust valve, allowing excess air pressure to vent to the atmosphere.

(12) A check valve in the intake fitting prevents pressure loss if high pressure air supply is interrupted.

(13) The height control valve incorporates a 5-second time delay to prevent unnecessary actuation while the vehicle is negotiating uneven terrain at operating speeds.

(14) A 3/8-inch dead zone is built into the valve action to eliminate a valve hunting action.

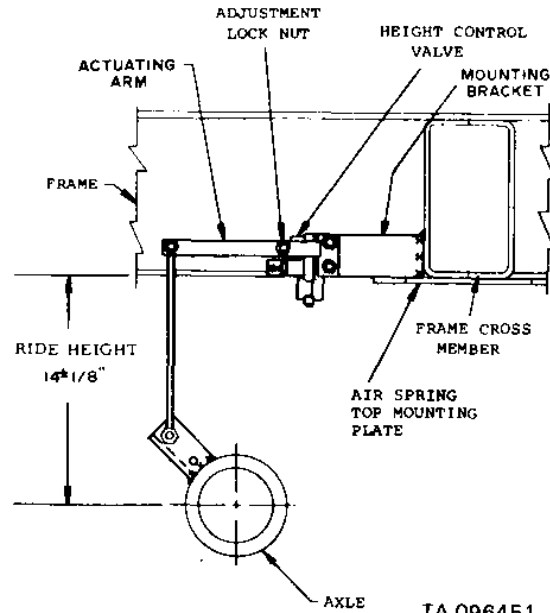
(15) Should an air spring fail, disconnect the height control valve linkage on the inoperable side. Air to the springs on that side will be shut off, allowing air pressure to build up in the system and in the air springs on the opposite side.

(16) Rubber bumpers inside the air springs carry the loaded trailer should all springs go flat.

(17) Stability through the axle connections allows operation of a loaded trailer with pressurized springs on one side of trailer only.

*b. Adjustment of Air Suspension System.*

(1) Adjust height control valve for proper dimensions between axle centerline and underside of frame by setting one valve at a time (fig. 4-42).



TA 096451

*Figure 4-42. . Ride height dimension adjustment, air suspension.*

(2) Position semitrailer on level ground, coupled to towing vehicle. Build up air pressure to 65 psi and maintain this pressure while adjusting height control valve.

(3) Disconnect linkage from both height control valve actuating arms (fig. 4-42).

(4) Move both actuating arms to a vertical down position and hold until all air is exhausted from air springs.

(5) Connect one valve actuating arm only to its respective linkage. Air spring controlled by this valve will inflate until the valve shuts off inlet air pressure.

(6) With the one set of air springs fully inflated, measure distance from centerline of axle to underside of frame (fig. 4-42).



**NOTE**

**It will take 2 to 6 seconds after adjustment of nylon block before air starts to flow through valve. This is caused by the built-in time delay.**

(7) Adjust valve by loosening adjustment lock nut and carefully moving nylon block (fig. 4-41) until dimension of 14 inches, plus or minus one-eighth of an inch, is reached. Tighten adjustment lock nut.

(8) Disconnect linkage and let springs deflate about half way. Reconnect linkage and allow springs to inflate. When valve shuts off, check height dimension again.

(9) Repeat steps (6), (7), and (8) above until proper 14 inches, plus or minus one-eighth of an inch, dimension is reached.

(10) Disconnect the valve adjusted in previous steps and move actuating arm to a vertical down position to deflate springs.

(11) Repeat steps (5) through (10) above with the opposite height control valve.

(12) Connect both actuating arms with their respective linkage. When springs are fully inflated and valves shut off, check height dimension. Both valves should be synchronized.

#### **4-57. Replacement of Air Suspension System Components**

##### *a. Removal of Rubber Bushing and Torsion Bar (fig. 51).*

(1) Remove weight from suspension by blocking up semitrailer and jacking up axle. Remove front or rear wheels as applicable.

(2) Disconnect linkage from height control valves and depress actuating arms to exhaust air pressure from air springs.

(3) Remove nuts (28), flat washers (27) and cap screws (5) and loosen frame bracket nuts (25). Drive torsion bar (32) completely out of assembly using care not to mushroom bar end.

(4) Carefully let both equalizing arms (16) down away from frame brackets. Push out bushing (31).

##### *b. Installation of Rubber Bushing and Torsion Bar (fig. 51).*

(1) Slip in new bushing (31) and rotate, as near as possible, to operating position. Place spacers (24) on ends of bushing and move equalizing arms (16) back to their proper positions relative to frame brackets (29). Line up bushing square holes with arm square holes to receive torsion bar.

(2) Insert torsion bar (32) through arm ends and bushings. Make sure that notch in bar is aligned to receive offset cap screw (5).

(3) Jack up axle to proper design height from horizontal axle centerline to underside of frame (14 inches plus or minus one-eighth of an inch). Tighten nuts (25) with axle in proper height position to a torque of 150 lb-ft.

(4) Install cap screws (5), flat washers (27) and nuts (28) and tighten to a torque of 200 lb-ft. (table 4-3).

*Table 4-3. Torque Limits*

Nut size	Torque limits (lb-ft)
Air Ride Suspension and Air Mounted Kingpin	
1/2-inch	25 lb-ft
5/8-inch	140 lb-ft
3/4-inch	200 lb-ft
3/4-inch (air spring only)	20 lb-ft
7/8-inch	300 lb-ft
1-inch	450 lb-ft
1-1/8 inch	700 lb-ft
1-1/4 inch	900 lb-ft
Piston nut inside air spring	50 lb-ft

(5) Reconnect linkage to height control valve.

(6) Install wheels and remove blocking and jacking equipment.

##### *c. Replacement of Torsion Bar Only (fig. 51).*

(1) Block up semitrailer to remove all weight from suspension.

(2) Remove front or rear wheels as applicable.

(3) Grind a one-fourth inch by 45 degree chamfer on one end of new torsion bar.

(4) Remove outer nuts (28), flat washers (27), and cap screws (5). Loosen inner nuts (28).

(5) Place chamfered end of new torsion bar against end of old torsion bar (32) and drive out old torsion bar. Make sure notch in new torsion bar is positioned to receive cap screw in outer torsion bar clamp of left hand equalizing arm (16).

(6) Install cap screws (5), flat washers (27), and nuts (28); tighten all nuts to a torque of 150 lb-ft.

(7) Install wheels and remove blocking and jacking equipment.

##### *d. Removal of Air Spring (fig. 51).*

(1) Block up semitrailer to remove all weight from suspension.

(2) Disconnect linkage from height control valve supplying faulty air spring and exhaust pressurized air by moving actuating arm down.

(3) Disconnect air line (8) from top of air spring (15). Remove upper mounting nuts (11 and 12), lock washers (10 and 13), and flat washer (9). Remove lower mounting cap screws (17) and lock washers (13).

(4) Depress air spring to retract upper mounting studs from frame and remove air spring with lower piston attached.

(5) Turn air spring assembly upside down and remove 1/2-inch nuts (fig. 4-43) from inside of piston. Tap down on clamp plate studs until air cell separates from piston.

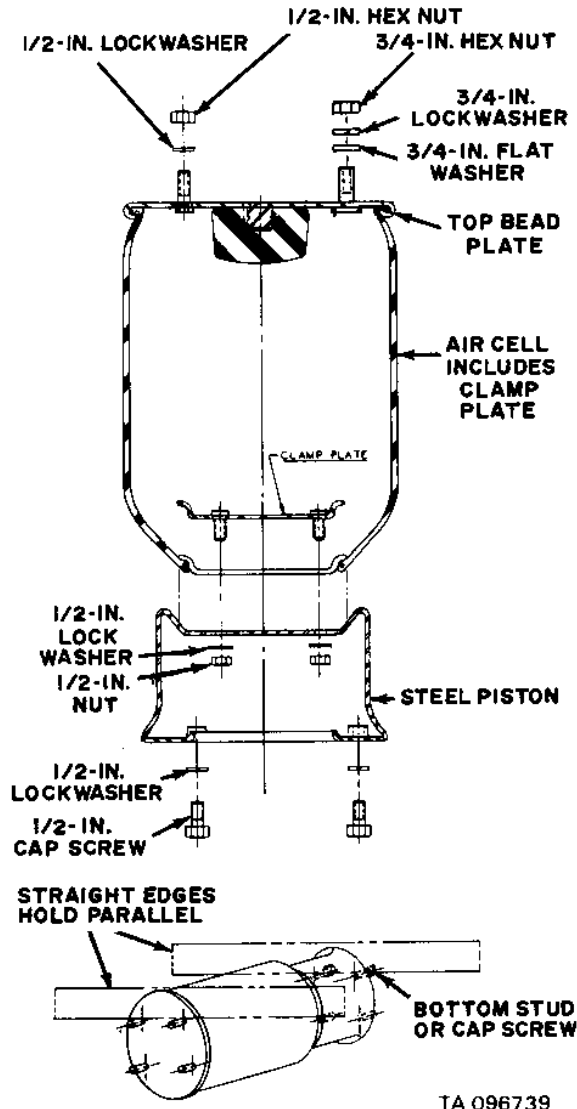


Figure 4-43. Air spring replacement.

*e. Installation of Air Spring (fig. 51).*

(1) Position new air cell, right side up, over piston. Position clamp plate so that studs hang down through opening in air cell.

(2) Carefully set air cell down on piston so that studs go through holes in piston.

(3) Start the 1/2-inch nuts and lock washers on studs inside piston (fig. 4-43). Do not tighten.

(4) Rotate piston so that mounting studs in bottom of piston are parallel with mounting studs in top bead plate.

(5) Start cap screws in bottom of piston (fig. 4-43). Hold two straight edges against top studs and bottom cap screws as shown in fig. 4-43. Adjust piston studs until straight edges aline.

(6) Tighten nuts inside piston to a torque of 50 lb-ft.

(7) Recheck for proper alignment of top and bottom studs.

(8) Pressure test at 40 psi and check for leaks with soap solution.

(9) Place air spring assembly (15, fig. 51) on pad of equalizing arm and install lower mounting cap screws (17) and lock washers (13). Tighten to a torque of 25 lb-ft. maximum.

(10) Depress air spring. Guide upper studs into air spring mounting plate (14). Secure with nuts (11 and 12), lock washers (10 and 13), and flat washer (9). Tighten to a torque of 25 lb-ft. maximum.

(11) Reconnect height control valve linkage and air line (8).

(12) Recheck for leaks at operating pressure.

(13) Remove blocking and jacking equipment.

*f. Removal of Axle Connection Components (fig. 51).*

(1) Remove all weight from suspension by blocking up semitrailer and jacking up axle.

(2) Exhaust all air from air springs by disconnecting linkage to both height control valves and rotating actuating arms down.

(3) Remove axle cap nuts (23), flat washers (22), and bolts (6) and (7) and remove axle connection components (18 through 21).

*g. Installation of Axle Connection Components (fig. 51).*

**CAUTION**

**The axle connection cap (21) must be drawn down so that a metal to metal contact exists between the axle connection cap and its mating part (16). Tighten nuts to a torque of 300 lb-ft.**

(1) Position axle connection components (18 through 21). Make sure that groove in axle pad (20) matches bottom tongue on axle adapter (19), and that metal tongues on axle connection cap (21) fit into respective slots provided in mating parts.

(2) Secure axle connection components (18 through 21) with bolts (6) and (7), flat washers (22) and nuts (23).

(3) Reconnect linkage to height control valves.

- (4) Remove jacking and blocking equipment.
- h. Removal of Shock Absorber (fig 51).*
- (1) Apply 65 psi air pressure to suspension or block up semitrailer to design height of 14 inches as measured from centerline of dolly axle to underside of frame.
- (2) Remove nuts (4) and flat washers (3) securing top and bottom shock absorber mounting eyes to shock mount studs. Remove shock absorber (2).
- i. Installation of Shock Absorber (fig. 51)*
- (1) Position eyes of new shock absorber (2), large end up, on ends of mounting studs and lightly tap shock absorber onto studs using hammer and wood block.
- (2) Replace nuts (4) and flat washers (3). Tighten to a torque of 150 lb-ft.
- (3) Remove blocking and jacking equipment, if used.

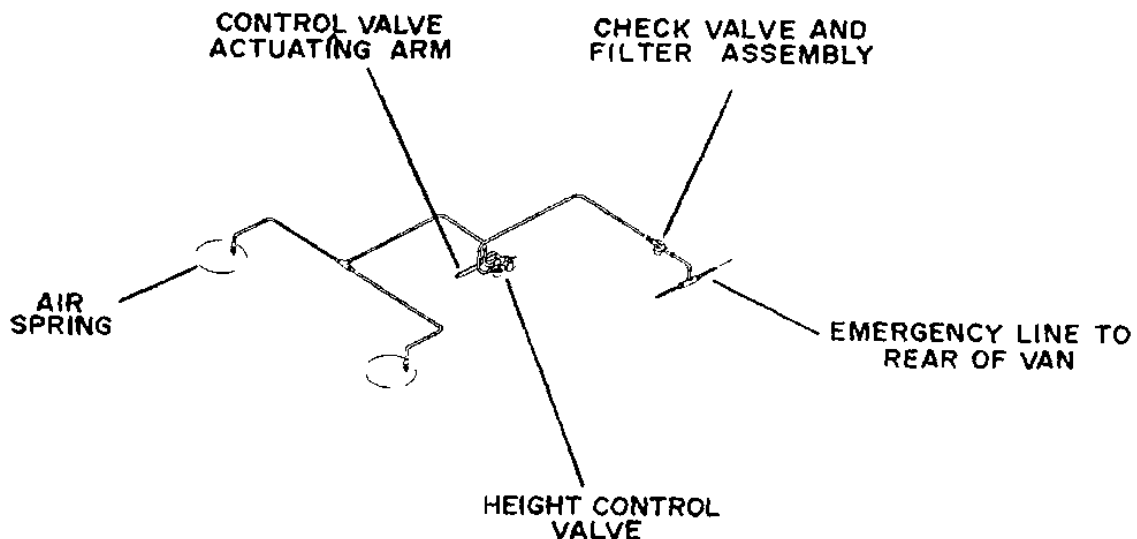
- j. Removal of Height Control Valve (fig. 52).*
- (1) Remove nut (6) and screw (8) securing lower end of adjusting rod (7).
- (2) Remove nut (6) and screw (8) securing upper end of adjusting rod (7) to height control valve (9). Remove adjusting rod.
- (3) Remove two nuts (4), lock washers (3), and , screws (10) securing height control valve (9). Remove height control valve.
- k. Installation of Height Control Valve (fig. 52).*
- (1) Position height control valve (9) and secure with two screws (10), lock washers (3), and nuts (4).
- (2) Position upper end of adjusting rod (7) on height control valve and secure with screw (8) and nut (6).
- (3) Position lower end of adjusting rod (7) and secure with screw (8) and nut (6).

#### Section XIV. MAINTENANCE OF AIR MOUNTED FIFTH WHEEL KINGPIN AND RESILIENT KINGPIN

##### 4-58. Air Mounted Fifth Wheel Kingpin, XM847, XM848, XM849, XM850, XM912, XM913

##### *a. General*

- (1) The XM847, XM848, XM849, XM850, XM912, and XM913 semitrailers are equipped with an air mounted fifth wheel kingpin (fig. 4-44).



TA 032521

Figure 4-44. Air mounted fifth wheel kingpin system.

(2) Pressurized air from the towing vehicle air system is used to supply the two air springs used with the air mounted fifth wheel kingpin. The preset height control valve regulates air flow to the spring in proportion to the load until the proper design height is obtained.

(3) When the semitrailer is uncoupled from the towing vehicle, the air springs automatically exhaust air until the bolster plate comes to rest on rubber bumpers inside the springs. A valve and filter assembly maintains safe air brake pressure and clean air and is set at 65 psi.

(4) A smooth ride is obtained through the use of a height control valve (fig. 4-41) which meters the amount of pressurized air required to compensate for varying trailer loads. Air is metered through the valve any time the trailer air system is coupled to the charged air system of the towing vehicle. The actuating arm detects movement above or below design height and causes the valve to compensate by exhausting or supplying air as required.

(5) Loss of air pressure or air spring deflection by off center load will cause the actuating arm to move up. Up movement opens the intake valve and allows supply air to pass through to the air springs. When the arm moves down, indicating excessive air pressure, the exhaust valve opens, allowing excess pressure to vent to the atmosphere.

(6) A safety check valve in the intake fitting prevents pressure loss if supply pressure is lost. A 5-second time delay is incorporated in the valve to prevent unnecessary actuation while negotiating uneven terrain. Valve hunting action is eliminated by 3/8-inch dead zone in the valve action.

*b. Adjustment of Height Control Valve.*

(1) Design dimension between bottom of bolster and upper face of fifth wheel plate is 8 inches when fifth wheel plate is in position parallel to the semitrailer frame (fig. 4-45). The design height can vary plus or minus one-eighth of an inch without adverse effect on operation.

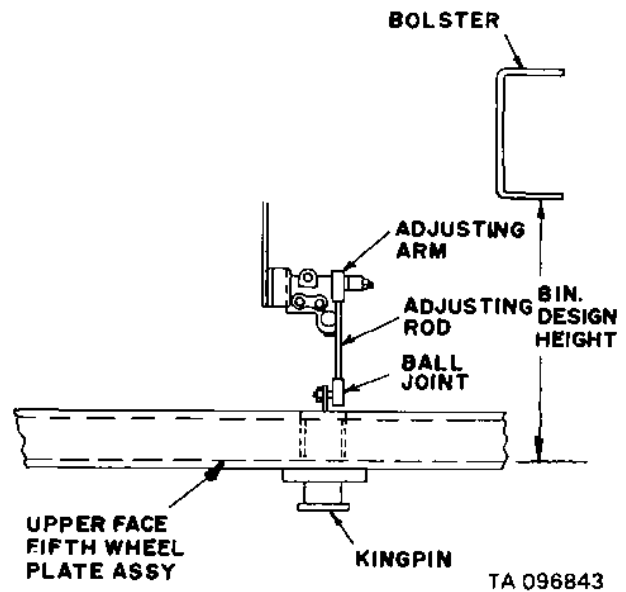


Figure 4-45. Ride height dimension adjustment, air mounted kingpin

(2) Loosen height control valve adjusting rod and raise the adjusting arm when height is too low. Tighten adjusting rod.

(3) Loosen height control valve adjusting rod and lower the adjusting arm when height is too high. Tighten adjusting rod.

#### 4-59. Replacement of Air Mounted Kingpin Components

*a. Removal of Kingpin Air Spring (fig. 44).*

(1) Extend landing gear and uncouple semitrailer from towing vehicle.

(2) Disconnect linkage from height control valve and depress actuating arm to exhaust air pressure from air springs.

(3) Place fork lift or other suitable lifting or blocking device under fifth wheel plate to carry weight of assembly.

(4) Disconnect air line at top of air spring (12) and remove upper mounting screws (5) and lock washers (6).

(5) Remove screws (13) attaching air springs to fifth wheel plate (11).

**NOTE**

It may be necessary to disconnect shock absorbers (10) before accomplishing the following step. Refer to procedures in paragraph 4-59c.

(6) Lower fifth wheel plate sufficiently to allow removal of air spring (12). Pull air spring forward to clear fifth wheel plate and remove air spring.

*b. Installation of Kingpin Air Spring (fig. 44)*

(1) Slide replacement air spring into position on fifth wheel plate, align bottom mounting holes, insert screws (13) and tighten.

(2) Raise fifth wheel plate (11) to match air spring top mounting holes with holes in channels in van body sub-base. Install screws (5) and lock washers (6) and tighten. (refer to table 4-3).

(3) Connect air line to inlet at top of air spring (12). Connect valve linkage

(4) Couple semitrailer to tractor, build up air pressure, and check for air leaks with soap solution.

*c. Removal of Shock Absorber (fig. 44)*

(1) Apply 65 psi air pressure to suspension, or block up semitrailer to design height of 8 inches, plus or minus one-eighth of an inch between upper face of fifth wheel plate and bottom of bolster with fifth wheel plate parallel to chassis frame (fig. 4-45)

(2) Remove nuts (8) and screws (9) securing top and bottom shock absorber fittings to mountings.

(3) Remove shock absorber (10).

*d. Installation of Shock Absorber (fig. 44)*

(1) Position shock absorber (10) with large end up

(2) Install screws (9) and nuts (8) and tighten (refer to table 4-3).

(3) Remove blocking equipment, if used.

*e. Removal of Fifth Wheel Plate Hinge Components (fig 44).*

(1) Extend landing gear legs and uncouple tractor from semitrailer.

(2) Disconnect linkage from height control valve and depress actuating arm to exhaust air pressure from air springs.

(3) Place suitable lifting or blocking device under fifth wheel plate to carry weight of assembly when removed.

(4) Disconnect air line at top of air spring (12) and remove upper mounting screws (5) and lock washers (6A).

(5) Disconnect shock absorbers (para 4-59c).

(6) Remove nuts (7) from each end of hinge rod bolt (1) and remove rod bolt.

(7) Lower plate assembly (11) from semitrailer.

(8) Drive rubber bushing (15) from hinge fitting.

*f. Installation of Fifth Wheel Plate Hinge Components (fig 44)*

**NOTE**

**Install rubber bushing assembly using new inner sleeve. Sleeve must be driven into bushing before bushing installation.**

(1) Mate fifth wheel plate (11) to semitrailer hinge fittings and insert rod bolts (1). Secure with nuts (7).

(2) Connect shock absorbers (10).

(3) Connect air line at top of air spring.

(4) Raise fifth wheel plate to mate air spring top mounting holes with matching holes in channels in van body sub-base. Install screws (5) and lock washers (6).

(5) Connect control valve linkage.

(6) Couple semitrailer to tractor, build up air pressure, and check for air leaks with soap solution.

**4-60. Resilient Kingpin, XM844, XM845**

*a. General.*

The resilient kingpin incorporated in the XM844 and XM845 semitrailers provides a 360 degree cushion laterally and longitudinally.

*b. Removal (fig 45)*

(1) Extend landing gear and uncouple tractor from semitrailer.

(2) Remove weight from fifth wheel plate assembly (1) by use of a fork lift.

(3) Remove 36 cap screws (6) and lock washers (5) and lower fifth wheel plate assembly (1).

*c. Installation (fig. 45)*

(1) Position fifth wheel plate assembly (1) and secure with 36 cap screws (6), and lock washers (5).

(2) Remove support from semitrailer.

## Section XV. MAINTENANCE OF VAN BODY AND ASSOCIATED PARTS

### 4-61. Rear Bumper (fig. 66)

*a. Removal.* Working under inside corner of chassis, remove four screws (4) and lock washers (5) securing bumper (6) to rear corner post and chassis rear crossmember.

*b. Installation.* Position bumper (6) and secure with four screws (4) and lock washers (5).

### 4-62. Splash Guard

#### *a. Removal (fig. 65).*

(1) Remove three nuts (4), lock washers (5), and screws (9) on XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822 (serial number S2669), XM823, and XM824 semitrailers securing bracket (6) to dolly rear crossmember. Remove bracket and splash guard (7) as a unit.

(2) Remove four nuts (4), lock washers (5), and screws (9) on XM822 (after serial number S2669), XM844, XM845, XM847, XM848, XM849, XM850, XM912, and XM913 semitrailers securing bracket (6) to dolly rear crossmember. Remove bracket and splash guard (7) as a unit.

(3) On all semitrailers, remove four nuts (4), lock washers (5), and screws (9) securing support plate (8) and splash guard (7) to bracket (6).

#### *b. Installation (fig. 65)*

(1) Position splash guard (7) and spacer plate (8) on bracket (6) and secure with four screws (9), lock washers (5) and nuts (4).

(2) Position bracket with attached splash guard and support plate on dolly rear cross-member. Secure unit with three or four screws (9) (para 4-62 a(1) or 4-62 a(2), lock washers (5), and nuts 84)

### 4-63. Pintle Assembly

#### *a. Removal (fig. 42).*

(1) Remove cotter pin (3) and slotted nut (2). Remove pintle assembly (1) from dolly rear crossmember.

(2) Remove cotter pin (15) and S-hook (14) and remove chain (13).

#### *b. Inspection*

(1) Inspect pintle assembly for ease of operation.

(2) Check for cracks or damaged parts.

(3) Replace worn or damaged pintle assembly.

(4) Lubricate according to the lubrication order (fig. 3-1 and 3-2).

#### *c. Installation (fig 42)*

(1) Attach chain (13) to pintle body with S-hook (14) and cotter pin (15).

(2) Position pintle assembly (1) in dolly rear crossmember. Install slotted nut (2) on pintle shank. Tighten nut to provide a snug fit, but loose enough to allow pintle assembly to turn. Install cotter pin (3) to secure nut (2).

### 4-64. Doors (figs. 53 through 64)

#### *a. Removal.*

(1) Some doors have a door stop and chain at the top of the door. To remove door stop and chain, remove four screws (3, fig. 58) and washers (4, fig. 58) securing door stop and chain to the door. Remove door stop before proceeding with the following steps.

(2) To remove doors attached with butt hinges, remove setscrew (36, fig 58) securing hinge pin (34, fig. 58). Drive pin out. On some models, remove nut (58, fig 61), washer (54, fig. 61) and screw (56, fig. 61).

(3) To remove doors attached with piano hinges, open door and remove screws from portion of piano hinge that is attached to door jamb, leaving hinge attached to door. Remove door.

#### *b. Cleaning.*

(1) Use steam or water and stiff brush to remove dirt.

(2) Use cleaning solvent (paragraph 3-3b) to remove grease and oil.

#### *c. Inspection and Repair.*

(1) Inspect for dents and cracks.

(2) Visually check all hardware for defects.

(3) Straighten bent metal parts if feasible.

Weld cracked or fractured items. Before welding, remove or cover adjacent wood or other flammable material to prevent damage.

(4) Replace parts damaged beyond repair. d Installation Install door in the reverse order of the removal procedure.

### 4-65. Hinges

#### *a. Removal.*

(1) Remove door (paragraph 4-64a above).

(2) On the rear doors on the XM680 and XM680E 1, refer to figure 61 and remove nuts (53), washers (54) and cap screws (56) securing door. Remove door. Remove nuts (50), washers (49), and bolt (57) securing hinge to van body. Remove hinge (55). The left side doors on the XM680 and XM680E1 are similar. Refer to figure 57.

(3) On the single front door on the XM822 and the double front doors on the XM680 and XM680E1 semitrailers incorporating piano hinges, refer to figures 62 and 63. Remove screws (21, fig. 62, or 40, fig. 63) securing hinge (22, fig. 62 or 39, fig. 63) to door. Remove door. Remove screws securing hinge to van body and remove hinge.

(4) On most other doors, refer to figure 55. Remove pin (5) securing inner door handle (6) and remove handle. Remove screws (1) securing lock guard (2) and remove lock guard. Remove screws (7) and washers (8) securing lock assembly (15). Remove lock assembly. Remove screws securing plywood panel on door, and remove panel. Remove nuts (19), washers (20) and square neck bolts (21) securing hinge (22) to door. Remove door. Remove nuts (19), washers (20), and bolts (27) securing hinge to van body. Remove hinge.

*b. Installation.* Install hinge in the reverse procedure in para 4-64 a for the particular configuration.

#### 4-66. Door Locks

##### *a. Removal (fig. 55).*

(1) Drive out pin (5) securing inner door handle (6) and remove handle.

(2) Remove screws (1) securing lock guard (2) to door and remove guard.

(3) Remove screws (7) and lock washers (8) securing center lock assembly (15) and upper and lower flush bolts (14) to door, and remove center lock assembly locking rods and flush bolts (14) as a unit.

##### *b. Inspection and Repair (fig. 55).*

(1) Inspect parts for cracks, bends, excessive wear and deterioration. Replace defective parts.

(2) If necessary, remove screw (10) and lock washer (11) securing locking rod (12 or 13) to flush bolt (14), and straighten locking rod to assure proper alignment in upper and lower flush bolts.

(3) Check lock for ease of operation. Lubricate as required.

(4) Straighten bends or dents in flush bolts that may cause binding.

(5) Clean and paint if necessary.

*c. Installation.* Install lock in reverse order of the removal procedure.

#### 4-67. Clutch Assembly

##### *a. Removal (fig. 60).*

(1) Remove inner door handle (paragraph 4-66a).

(2) Remove inner handle clutch spring (19) and clutch spring retainer (20).

(3) Remove pin (8) securing inner clutch (7), and remove clutch.

(4) In the event that the outer clutch must be replaced, remove three rivets (1) securing outer door handle (2), and remove handle and gasket (3).

(5) Remove pin (4) securing other clutch (5), and remove clutch.

*b. Installation.* Install clutch assembly in the reverse order of the removal procedure.

#### 4-68. Door Seals

##### *a. Removal and Installation of Rubber Seal (fig. 60)*

(1) Open door and pry seal (32) from groove in door frame.

(2) To install rubber seal, make certain door opening is free of dust, dirt, grease and old bonding cement. Use approved cleaning solvent (para-graph 3-3b) to remove any accumulated grease.

(3) Secure rubber seal in groove in door frame with the proper bonding cement.

##### *b. Removal and Installation of Handle Gasket (fig. 60).*

(1) The outer handle gasket should be replaced only if it is defective.

(2) To remove gasket (3), remove three rivets (1) securing outer handle (2) to door. Remove handle and gasket.

(3) To install gasket, position gasket (3) and handle (2) and secure with three rivets (1).

#### 4-69. Decontamination Port Components, XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM823, XM824 (fig. 60)

*a. Removal of Cover Gasket.* Open cover (37) and pry off gasket (38).

*b. Removal of Housing Gasket.* Open cover (37). Remove eight screws (39) and remove decontamination port housing (40) and gasket (41).

*c. Removal of Screen and Gasket.* From inside of van, remove three cap screws (50) and lock washers (49) securing air vent housing (51), and remove housing, gasket (41) and screen (46).

*d. Installation.* Remove old adhesive and install gaskets with proper adhesive, where required, in the reverse order of paragraphs a, b, and c above.

#### 4-70. Air Vent Components, XM822, XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913 (fig. 54)

*a. Removal of Screen.* From interior side of

door, remove eight screws (2) securing screen (1), and remove screen.

*b. Removal of Vent Cover and Rainshield.* Remove rivets (13 or 15) securing vent cover (14), rainshield (10), or their respective hinges.

*c. Installation.* Install replaced parts in the reverse order of paragraphs a and b above.

#### 4-71. Access Openings

*a. Removal of Covers, Hinges and Cover Seals.* Remove rivets securing cover and remove cover. Remove rivets securing hinge and remove hinge. Pry off seals.

*b. Removal of Shield Assembly.* Open cover and remove rivets securing shield assembly hinge and remove shield assembly.

*c. Inspection and Repair.*

(1) Inspect cover for warpage and distortion. Straighten and repaint if necessary. Replace defective cover.

(2) Inspect hinges for straightness and deterioration. Straighten bent hinge. Replace defective hinge.

(3) Inspect shields for bends, dents and distortion. Straighten and paint as necessary.

(4) Check stay for misalignment. Straighten or replace as necessary.

(5) Inspect captive screws, thumb screws, rivnuts and receptacles. Replace defective parts.

(6) Clean all parts with water and a stiff brush. Remove grease and oil with approved solvent (paragraph 3-3b).

*d. Installation.* Install all parts in the reverse order of the removal procedure.

#### 4-72. Dolly Assembly (fig. 4-46)

*a. General.*

(1) The dolly assembly consists of a frame assembly, dual wheels and tires, axle and brake assembly, suspension system, leveling jacks, spare wheel carrier assembly, towing pintle and hook for towing vehicle safety chain, electrical system for running lights, and electrical and brake connections for towed vehicle.

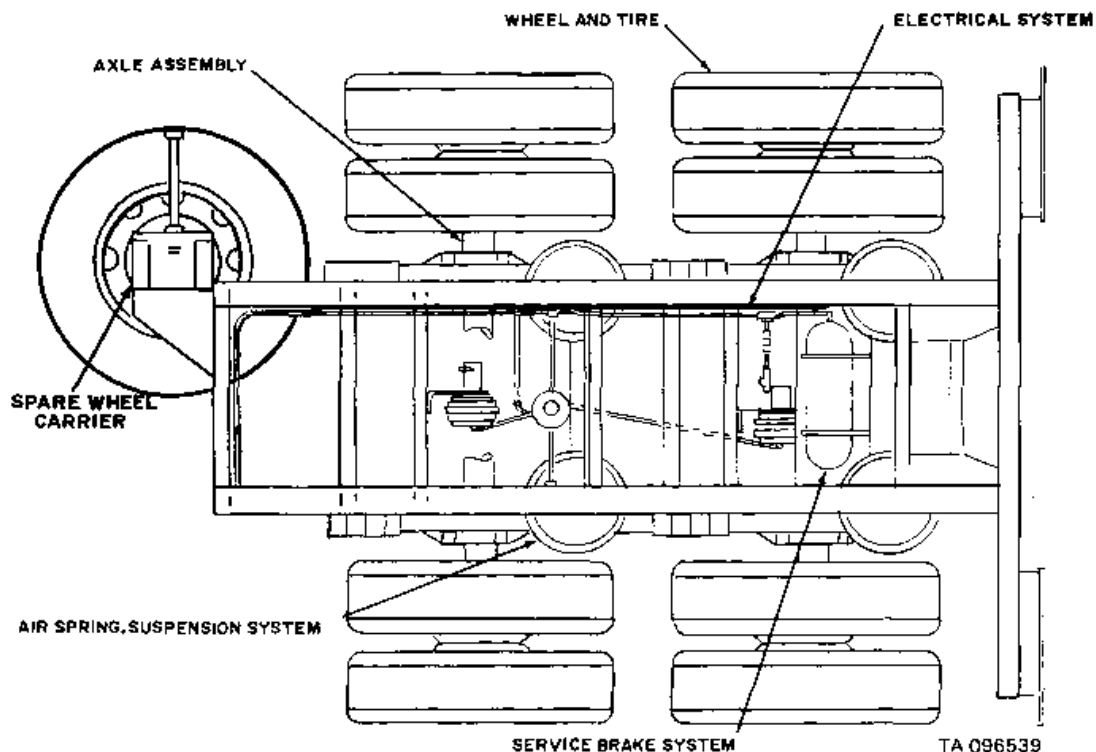


Figure 4-46. Dolly assembly, XM912, XM918



(2) The dolly assembly is removable for air transport.

(3) The semitrailer is equipped with a kingpin for use with the fifth wheel of the towing vehicle. The XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822 (serial number S2669), XM823, and XM824 semitrailers incorporate the standard two inch kingpin. Refer to paragraph 4-58 for the air mounted fifth wheel kingpin and paragraph 4-60 for the resilient kingpin used on some vans.

*b. Removal.*

(1) Extend lifting eyes to the operating position.

(2) Place one wheel chock in front of wheel on one side of semitrailer. Place the other wheel chock at rear of wheel on other side.

(3) Use a hoist equipped with a van-width spreader bar with cables and hooks to attach to the lifting eyes.

(4) Uncouple the air lines and install dummy couplings.

(5) Disconnect electrical connections.

(6) On the XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822 (serial number S2669), XM823, and XM824 semitrailers, remove 24 nuts, washers and screws securing dolly assembly.

(7) On the XM822 (after serial number S2669), XM844, XM845, XM847, XM848, XM849, and XM850 semitrailers, remove six nuts, washers and screws securing dolly assembly.

(8) On the XM912 and XM913 semitrailers, remove two cotter pins, two nuts, two washers and two bolts from rear of dolly assembly. Remove four nuts, washers and screws from sides and front of dolly assembly.

(9) Using the hoist, raise the van body.

(10) Pull dolly assembly toward the rear, away from the van body

(11) Lower van body to desired location.

*c. Installation*

(1) Raise van body in position over dolly as-

sembly Lower van body on dolly assembly.

(2) Secure in position with the attaching hardware removed in steps (6), (7), or (8) above. On the XM912 and XM913 semitrailers, make certain the two bolts, washers, nuts, and cotter pins are installed at the rear of the dolly assembly.

(3) Remove hoist and retract lifting eyes.

(4) Connect air lines and electrical connections.

**4-73. Name, Data and Instruction Plates**

*a. Removal.* Remove screws securing plate. Remove plate.

*b. Inspection.* Inspect for rust. Remove rust and clean thoroughly. Apply a heavy coat of clear lacquer.

*c. Installation.* Position plate and secure with screws.

**4-74. Level Assembly (fig. 72)**

*a. General.*

(1) Eight level assemblies are installed at each side of each corner of the semitrailer.

(2) The levels are used to aid the leveling of the semitrailer.

*b. Removal (fig. 72).*

(1) Remove two nuts (6), sleeve spacers (2) and screws (3). Remove level (4).

(2) Some semitrailers use rivets to attach the level. For these semitrailers, remove the two rivets and remove the level

(3) Remove two rivets (or two screws (7) on some semitrailers securing bracket (5) to body. Remove bracket.

*c. Installation (fig. 72).*

(1) Position bracket (5) and secure with screws (7) or rivets.

(2) Position level (4) on bracket (5) and secure with sleeve spacer (2), screw (3) and nut (6).

(3) On those semitrailers using rivets as attaching hardware, position level (4) on bracket (5). Secure level with two spacers (2) and rivets.

**Section XVI. MAINTENANCE UNDER UNUSUAL CONDITIONS****4-75. Extreme Cold Weather Maintenance**

For maintenance procedures and practices during extreme cold weather, refer to TM 9-207.

**4-76. Extreme Hot Weather Maintenance**

*a. Corrosion.* In hot, damp climates, corrosion occurs on all parts of the semitrailer and accelerates during rainy seasons. Evidence of corrosion appears in the form of rust, paint blisters, mildew, mold, and fungus growth.

*b. Protective Action.* Remove the corrosion from exterior metal surfaces with abrasive paper on cloth and apply a protective coating of paint, or touch up the existing paint. Keep a film of engine lubricating oil (OE-20) on unfinished exposed metal surfaces.

**4-77. Maintenance After Fording**

Refer to TM 9-238 for maintenance procedures after fording.

**4-78. Maintenance After Operation On Unusual Terrain**

*a. Mud.* Thorough cleaning and lubrication of all parts affected must be accomplished as soon as possible after operation in mud. Clean all suspension components and lubricate as specified on the lubrication order. Repack wheel bearings, if necessary.

*b. Sand or Dust.* Touch up all painted surfaces damaged by sandblasting. Lubricate completely to force out lubricants contaminated by sand or dust.

## CHAPTER 5 DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE INSTRUCTIONS

### Section I. REPAIR PARTS, SPECIAL TOOLS AND EQUIPMENT

#### 5-1. Special Tools and Equipment.

Special tools and equipment are listed and illustrated in Appendix E. The oil seal replacer (1, fig. 87) and wheel bearing adjusting nut wrench (2, fig. 87) are used in maintenance procedures for the hubs and brake drums.

#### 5-2. Repair parts.

Repair parts that cover direct and general support maintenance for this equipment are listed and illustrated in Appendix E.

### Section II. TROUBLESHOOTING

#### 5-3. Introductory Information.

a. This section contains troubleshooting information for locating and correcting most of the operating troubles which may develop in the semitrailer. Each malfunction for an individual component, unit, or system is followed by a list of tests or inspections which will help you to determine the corrective actions to take. You should perform the tests/inspections and corrective actions in the order listed.

b. This manual cannot list all malfunctions that may occur, nor all tests or inspections and corrective actions. If a malfunction is not listed or is not corrected by listed corrective actions, notify your supervisor.

c. Table 5-1 lists the common malfunctions which you may find during the operation or maintenance of the semitrailer or its components. You should perform the tests/inspections and corrective actions in the order listed.

*Table 5-1 Troubleshooting*

MALFUNCTION	
TEST OR INSPECTION	
CORRECTIVE ACTION	
ELECTRICAL SYSTEM	
1. Refer to table 4-2	
BRAKE SYSTEM	
2. Refer to table 4-2	
SUSPENSION	
3. HARD PULLING.	
Step 1.	Check for dragging brakes Adjust brakes (paragraph 4-32)
Step 2.	Check for improper wheel bearing adjustment Adjust bearings (paragraph 4-47f)
Step 3.	Check for loose suspension springs. Tighten U-bolt nuts
4. IMPROPER SPRING ACTION.	
Step 1.	Check for loose U-bolt Tighten U-bolt nuts

- Step 2. Check for broken spring leaves, center bolt, or clips  
Replace spring, bolt or clip as necessary (paragraph 8-2)
5. EXCESSIVELY WORN, SCUFFED, OR CUPPED TIRES
- Step 1. Check for Improper tire pressure  
Inflate to proper pressure (paragraph 3-18b)
- Step 2. Check for loose wheels.  
Tighten wheel nuts
- Step 3. Check for loose wheel bearings  
Adjust wheel bearings (paragraph 4-47f)
- Step 4. Check for deformed wheel or rim  
Replace defective wheel (paragraph 3-18)
- Step 5. Check for deformed brake drum  
Replace deformed brake drum (paragraph 4-47)
- Step 6. Check for bent axle  
Replace defective axle  
LANDING GEAR (Rigid Type)
6. ERRATIC OPERATION (BINDING AND GRINDING)
- Step 1. Check for grit and dirt on working parts  
Clean working parts
- Step 2. Check for adequate lubrication  
Lubricate in accordance with the lubrication chart (figs 3-1 and 3-2)
7. RATCHET CRANK DOES NOT TURN LANDING GEAR SHAFT FREELY
- Step 1. Check for adequate lubrication  
Lubricate in accordance with the lubrication chart (figs 3-1 and 3-2)
- Step 2. Check for broken gear in gear train  
Replace defective gear (paragraphs 7-3, 7-6)
8. LEGS DO NOT RETRACT OR EXTEND FREELY
- Step 1. Check for adequate lubrication  
Lubricate in accordance with the lubrication chart (figs 3-1 and 3-2)
- Step 2. Check for defective gear train in leg.  
Replace defective part of gear train (paragraphs 7-3, 7-6).
- Step 3. Check for damaged leg  
Replace defective leg.

### Section III. GENERAL MAINTENANCE

#### 5-4. Wiring Harness

##### a. Removal

(1) Disconnect receptacles from harness and all cable connectors.

(2) Remove four nuts, lock washers and screws securing connector and cover to crossmember and remove connector and cover. Unsolder harness wire from connector (paragraph 4-15a).

(3) Remove nuts, screws, lock washers and clamps securing harness to undercarriage, and remove harness.

##### b. Installation.

(1) Position harness, threading through cut-

outs where required, and secure with screws and clamps.

(2) Connect harness to receptacles and all cable connectors.

#### NOTE

Ground wire terminal is secured by one of four screws, lock washers and nuts.

(3) Secure connector and cover to crossmember with four screws, lock washers and nuts (paragraph 4-15c).

#### 5-5. Wiring Harness Connectors and Receptacles

Refer to figure 5-1 for repair of connectors and receptacles.

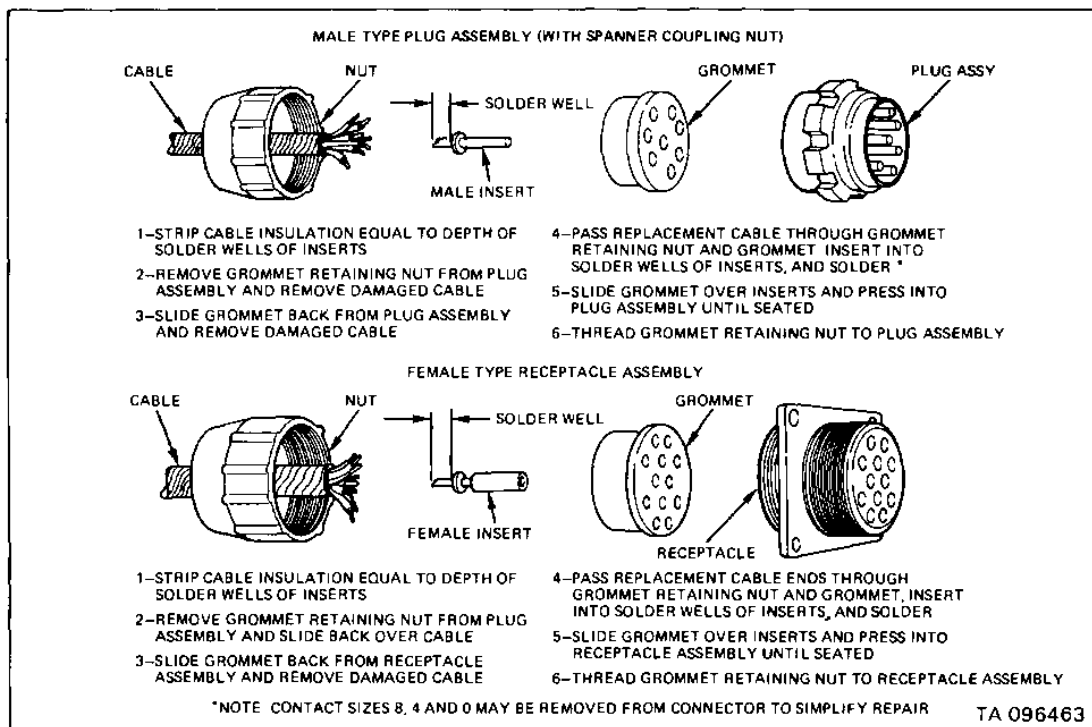


Figure 5-1. Replacement of receptacles and connectors.

#### 5-6. Replacement of Single Wires

a. Remove and discard electrical insulating tape binding wires of defective branch.

b. Cut defective wire from branch, leaving sufficient wire for splicing

c. Cut new piece of wire to same length (plus splice) as defective wire and splice to harness. Tape splice with insulating tape. Assemble new terminals, washers, sleeves and connector shells to ends of new wire as required. Install marker band to new wire.

## Section IV. REMOVAL AND INSTALLATION OF MAJOR COMPONENTS AND ASSEMBLIES

### 5-7. Axle

a. General. Generally, axle assemblies will not be removed unless inspection discloses a need for repair or replacement. For inspection purposes, remove wheels (paragraph 3-18a) and hubs and brake drums (paragraph 4-47).

b. Removal.

#### WARNING

**Weight of semitrailer must be supported by leveling jacks or by blocking or support stands placed under rear corners of frame throughout operation.**

(1) Position semitrailer on level surface with front end resting on landing gear support legs.

(2) Extend leveling jacks enough to relieve tires of ground contact and provide support during the removal and installation operation.

(3) Open air reservoir drain cock to relieve air pressure.

(4) Remove wheels (paragraph 3-18a).

(5) Remove hubs and drums (paragraph 4-47).

(6) Disconnect hydraulic brake hose at tee on rear center of axle.

(7) Support axle with a jack.

(8) Remove two nuts and lock washers from each spring assembly U-bolt and remove U-bolts (fig. 4-38).

(9) Lower axle assembly and remove from under semitrailer.

c. Installation.

(1) Raise axle assembly with jacks, and block up to proper position. Nut of spring center bolt must seat in recess of axle spring seat.

(2) Attach axle assembly with four U-bolts, eight lock washers and nuts. Tighten U-bolt nuts to 500 lb-ft.

(3) Connect hydraulic brake hose to axle tee.

(4) Install hubs, brake drums and wheels.

(5) Bleed brakes (paragraph 4-33).

### 5-8. Axle and Bracket Assembly, XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824

a. Removal.

#### NOTE

**The key numbers shown below in parentheses refer to figure 50, except where otherwise noted.**

(1) Raise and support semitrailer, remove wheel and tire assemblies and springs (paragraph 4-53).

(2) Disconnect hydraulic hose connections (fig. 4-38) from supports on axle and bracket assembly (paragraph 4-44c).

(3) Raise front and rear axles (43) just enough to relieve weight of each axle from lower torque rods (38). Provide a secure means of support to hold this position.

(4) Remove eight nuts (40) and lock washers (39) securing lower torque rod ends to axle and bracket assembly (50) and main axle lower torque rod brackets (45).

(5) Loosen torque rod ball ends (paragraph 4-55a).

(6) Remove four lower torque rods from their respective mountings by prying rod ends out and away from axle and bracket assembly and by prying in and away from front and rear axle lower torque rod brackets.

(7) With axle and bracket assembly supported (step 3, paragraph 4-53), remove twelve nuts (2) and lock washers (3) securing axle and bracket assembly (50) to frame suspension bracket (1).

(8) Lower axle and bracket assembly from suspension brackets and away from vehicle.

b. Installation

(1) Install axle and bracket assembly in the reverse order of the procedure in paragraph a above.

(2) Install four lower torque rods ends in the axle and bracket assembly in the reverse order of the procedure in paragraph 5-8a (6), following instructions in paragraph 4-55.

## CHAPTER 6

### REPAIR OF AXLE AND BRAKE ASSEMBLY AND SPRING SEAT

#### 6-1. General

Generally, axle assemblies will not be removed unless inspection discloses need for repair or re-placement. For inspection purposes, remove wheel (paragraph 3-18a), hubs and brake drums (paragraph 4-47).

#### 6-2. Axle, XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824

##### a. Removal

#### WARNING

**Weight of semitrailer must be supported by blocking or support stands placed under rear corners of frame throughout operation.**

(1) Position semitrailer on level surface with front end resting on landing gear. Jack up axle to be removed with hydraulic dolly high enough to allow removal of wheels. Lift rear of semitrailer with hoisting equipment (with floor jacks under axle and bracket assembly) until weight of springs has been taken off axle. Block frame securely.

(2) Remove wheels and tires (paragraph 3-18a) and hubs and brake-drums (paragraph 4-47) from axle to be removed.

(3) Disconnect hydraulic hose to tee at center of axle (paragraph 4-44c).

(4) Disconnect torque rods (fig. 50) from axle to be removed (paragraph 4-55).

(5) Move axle on hydraulic dolly to free springs from spring guide brackets. Move axle from under semitrailer chassis.

##### b. Disassembly.

(1) Remove nut, lock washer and cap screw, securing hydraulic line connector (fig. 4-38) to band on axle. Remove connector.

(2) Remove three cap screws securing hydraulic lines to each brake assembly.

#### NOTE

**The key letters shown below in parentheses refer to figure 50.**

(3) Remove eight nuts (40), lock washers (39), and bolts (35) securing two spring guide brackets (48) and lower torque rod brackets (45) to the axle. Remove spring guide brackets and lower torque rod brackets. Remove spring plate (47) from spring guide brackets (48).

(4) Remove eight nuts (40), lock washers (39) and bolts (35) which secure two upper torque rod brackets (46) and bracket plate (44) to the axle.

(5) Remove nuts, lock washers and cap screws and remove brake assemblies.

c. *Cleaning.* Clean mud and dirt from all exposed parts with water and stiff brush. Remove grease from spindles of axles and wheel retaining parts with approved cleaning solvent (paragraph 3-3b).

##### d. Inspection and Repair.

(1) Inspect for broken or cracked bracket plate, spring guide brackets and torque rod brackets. Replace broken or cracked parts.

(2) Check bearing seating surfaces and oil seal sleeve spacer (18, fig. 40) for roughness or damage. File or grind smooth high spots, burrs, or roughness.

(3) Check threads of axle spindles for wear, crossed threads, or damage. Using fine file, remove burrs or hand chase threads if necessary.

(4) Check axle spindles for bend. Indications of a bent axle spindle are binding bearings, which cannot be adjusted properly, and extremely uneven wear of brake linings. Replace defective axle spindle.

(5) Check that axle meets requirements of repair standards listed in Repair Standards, Table 6-1.

(6) The repair and rebuild standards included in Table 6-1 give the minimum, maximum, and key clearance of new or rebuilt parts. They also give wear limits which indicate that point to which a part or parts may be worn before replacement in order to give maximum service with minimum replacement. Normally, all parts which have not been worn beyond the dimensions shown under wear limits will be approved for service. Points of measurement for repair standards are illustrated in figure 6-1.

Table 6-1 Repair Standards

Item and point of measurement	Fig no. letter ref	Size and fit of new parts		Wear limits
		Min	Max	
a. Axle				
Diameter of inner bearing surface	6-1A	3 4988	3 4998	3 4983
Diameter of outer bearing surface	6-1B	2 6238	2 6248	2 6233
b. Brake drum Inside diameter	6-1C	16.495	16 505	16 625
c. Back front brake drive				
Inside diameter of hub location hole	6-1D	7 250	7 254	*
Concentricity of inside diameter with outside diameter	6-1E	Total reading	Indicator 0 004	*
d. Wheel hub				
Inside diameter of inner bearing cup surface	6-1F	5 996	5 998	*
Outside diameter of inner bearing cup surface	6-1G	6 0000	6 0010	*
Inside inner bearing cup fit		0 0015T	0 0045T	*
Inside (bore) diam. of inner bearing	6-1L	3 5000	3.5010	3 5015
Inside diameter of outer bearing cup surface	6-1K	4.434	4 436	*
Outside diameter of outer bearing cup	6-1J	4 4375	4 4385	*
Inside outer bearing cup fit		0 0015T	0 0045T	*
Inside (bore) diam. of outer bearing	6-1H	2 6250	2 6260	2 6265

\*Indicates that part should be replaced when worn beyond the limits given in "size and fits of new parts" column.



Figure 6-1. Standard repair measurement points



(7) Check for damaged paint and repaint where necessary.

*e. Assembly (fig. 50).*

(1) Install four bolts (35) in spring guide brackets (48).

(2) Position spring guide brackets on axle (43).

(3) Rotate bolts (35) until they hang freely in spring guide bracket without binding against axle.

(4) Position lower torque rod brackets (45) under axle and align holes with bolts protruding from spring guide brackets.

(5) Work bolts through mounting holes in lower torque rod bracket, taking care not to damage bolt threads.

(6) Install lock washer (39) and nut (40) on each bolt; tighten nuts.

(7) Position upper torque rod bracket (46) on top of axle (43).

(8) Install four bolts (35) in upper torque rod bracket (46) and rotate them until they hang freely without binding against axle.

(9) Position bracket plate (44) under axle and align holes with bolts protruding from upper torque rod bracket.

(10) Work bolts through mounting holes in torque rod bracket, taking care not to damage bolt threads.

(11) Install lock washer (39) and nut (40) on each bolt; tighten nut.

(12) Install brake assemblies.

(13) Install hydraulic lines at fittings in wheel cylinders of brake assemblies.

(14) Install hydraulic line connector and band on axle.

*f. Installation.*

(1) Position axle on hydraulic dolly under semitrailer chassis and align spring guide brackets (fig. 4-39) with springs.

(2) Connect torque rods (fig. 50) to correct brackets on axle.

(3) Attach hydraulic hose to tee at center of axle (paragraph 4-44d).

(4) Install wheels, tires (paragraph 3-18b), hubs, and brake drums (paragraph 4-47) on axle.

(5) Remove blocking equipment and hoisting equipment from semitrailer chassis.

**6-3. Axle, XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913**

*a. General.* Generally, axle assemblies will not be removed unless inspection discloses a need for

repair or replacement. For inspection purposes, remove wheels (paragraph 3-18a), hubs and brake drums (paragraph 4-47).

**WARNING**

**Weight of semitrailer must be supported by leveling jacks or by blocking or support stands placed under rear corners of frame throughout operation.**

*b. Removal (fig. 6-2).*

(1) Position semitrailer on level surface with front end resting on landing gear legs.

(2) Deflate air springs.

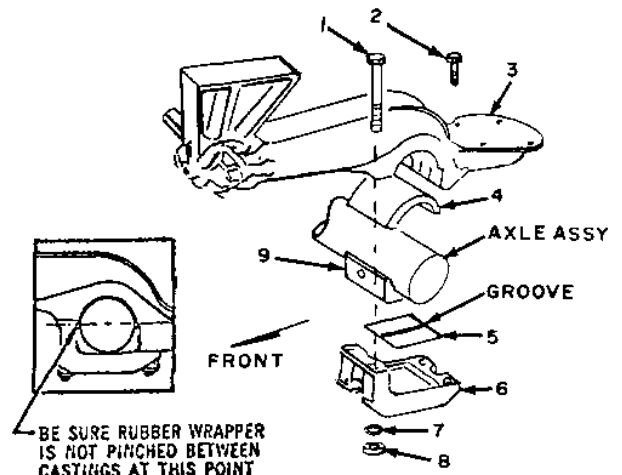
(3) Extend leveling jacks enough to relieve tires of ground contact and provide support during removal and installation operations.

(4) Open air reservoir drain cock to relieve air pressure.

(5) Remove wheels (paragraph 3-18a).

(6) Remove hubs and drums (paragraph 4-47).

(7) Disconnect hydraulic brake hose at tee on rear center of axle.



TA 096664

- |                    |                       |
|--------------------|-----------------------|
| 1 Rod bolt (long)  | 6 Axle connection cap |
| 2 Rod bolt (short) | 7 Washer              |
| 3 Equalizing arm   | 8 Nut                 |
| 4 Rubber wrapper   | 9 Axle adapter        |
| 5 Rubber pad       |                       |

Figure 6-2. Removal of axle.

(8) Support axle with jack.

(9) Remove eight nuts (8), washers (7), four rod bolts (1), and four rod bolts (2).

(10) Remove two axle connection caps (6) and two rubber pads (5).

(11) Lower jack supporting axle and remove axle from underneath semitrailer.

c. *Cleaning.*

(1) Clean mud and dirt from all exposed surfaces with water and stiff brush.

(2) Remove grease from spindle of axle and wheel retaining parts with safety cleaning solvent.

d. *Inspection and Repair.*

(1) Check threads of axle spindle for wear,

crossed threads, or damage. Using fine file, remove burrs or hand chase threads if necessary.

(2) Check axle spindles for bend. Indications of a bent axle spindle are binding bearings, which cannot be adjusted properly, and extremely uneven wear of brake linings. Replace defective axle spindle.

(3) Check for damaged paint and repaint where necessary.

(4) Check that axle meets requirements of repair standards listed in table 6-1 and figure 6-1.

e. *Assembly of New Axle (fig. 6-3).*

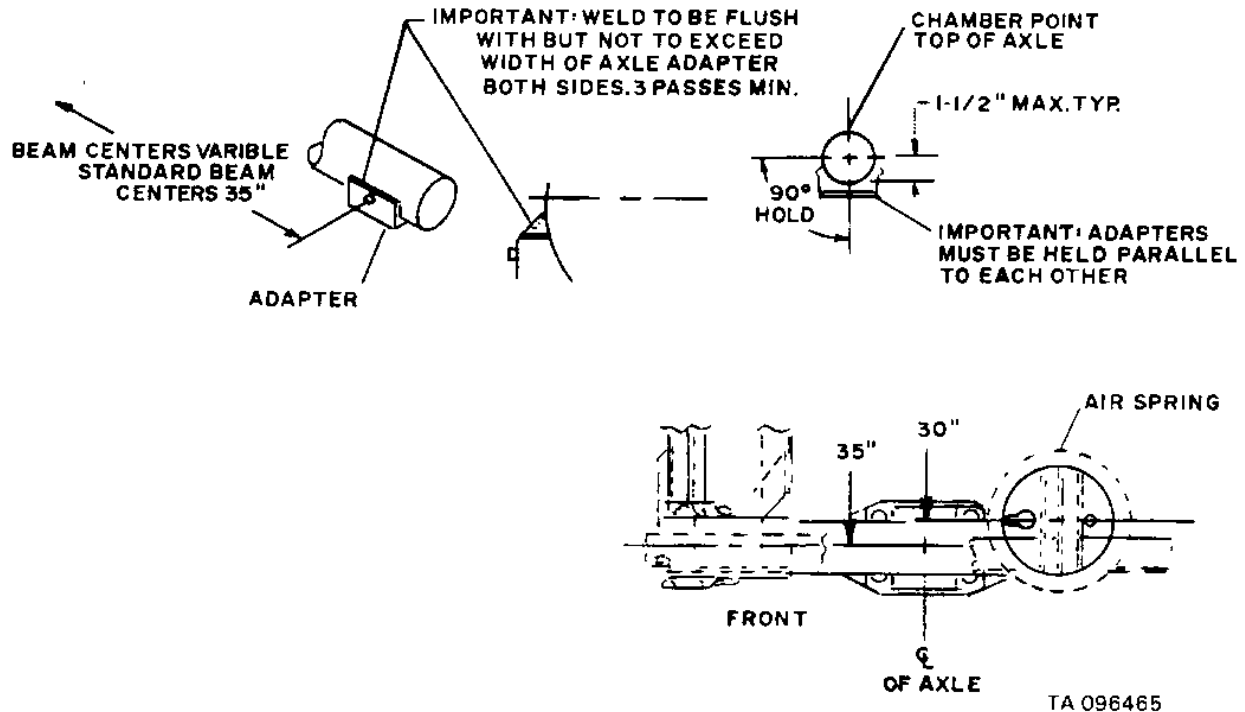


Figure 6-3. Assembly of new axle

(1) Determine centers of equalizing arm by adding 5 inches to air spring centers. Example: 30-inch air spring center plus 5 inches equals 35-inch equalizing arm center.

(2) Locate equalizing arm centers on axle.

(3) Position two axle adapters on bottom of axle at the center points located in step (2) above. Clamp adapters in place.

(4) Using a level protractor, adjust both adapters as shown above. Be sure adapters are parallel and tight against axle.

(5) Weld both adapters securely as shown above with a minimum of three passes, using welding rods AWS Spec. E-7016 or equivalent.

(6) Position tee fitting on new axle in same location as the original axle and secure with cap screw, lock washer and nut.

f. *Installation (fig. 6-4).*

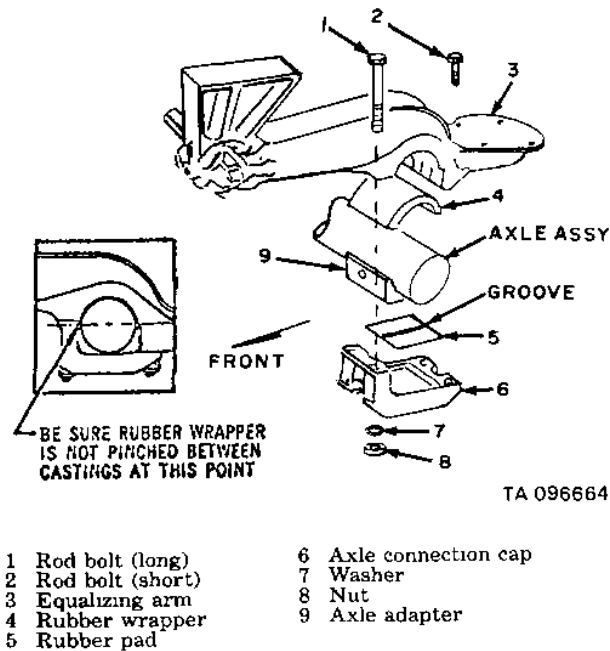


Figure 6-4. Installation of new axle.

- (1) Connect hydraulic hose to tee at center of axle.
- (2) Insert rubber wrappers (4) in position in equalizing arms (3).
- (3) Position axle in equalizing arms (3).
- (4) Place support under axle.
- (5) Check rubber wrappers (4) to make certain they are not pinched.
- (6) Place rubber pads (5) in axle connection caps (6).
- (7) Place axle connection caps (6) under axle and insert rod bolts (1) and (2).
- (8) Secure bolts (1) and (2) with eight nuts (8) and washers (7).
- (9) Torque nuts (8) alternately until axle connection caps (6) and equalizing arms (3) are a tight fit, metal to metal.
- (10) Install hubs and drums (paragraph 4-47).
- (11) Install wheels (paragraph 3-18b).
- (12) Connect hydraulic hoses
- (13) Close air reservoir drain cock.
- (14) Remove blocking and support equipment

#### 6-4. Brake Drum

If inspection (paragraph 4-47d) reveals brake drum to be out of round or excessively scored,

rebore, removing as little metal as necessary to true friction surface. After boring, check that drum meets requirements of repair standards listed in table 6-1 and figure 6-1. If refinishing requires removal of more than one-sixteenth of an inch of material (one-eighth of an inch in diameter), replace drum.

#### 6-5. Axle and Bracket Assembly Seat

##### NOTE

The key letters shown below in parentheses refer to figure 26 except where otherwise indicated.

##### a. Removal.

(1) Support weight of semitrailer by jacking up axle and bracket assembly at end from which spring seat is to be removed

(2) Remove four nuts and lockwashers from two U-bolts and remove U-bolts (fig. 4-39). Lift off spring seat on top of spring assembly.

(3) Loosen two bolts (13) from inner face of spring seat (15) and raise ends of main axles until bottom of spring assembly and center bolt clears top of spring seat

(4) Remove six bolts (22) and lock washers (21) and remove access cover (20) and gasket (19). Discard gasket if defective.

(5) Remove adjusting nuts (17) and key washer (18), using wrench NSN 5120-00-795-0059. Remove outer tapered bushing (11)

(6) Remove spring seat assembly (15) using slight rocking motion (left and right) while carefully sliding seat out and away from axle and bracket assembly (1). It is possible inner bearing cup (12) will remain in spring seat.

(7) Remove inner tapered bushing (11), encased seal (9), packing retainer (8), flat washers (6 and 7) from axle and bracket assembly (1) Discard seals.

b. *Cleaning.* Clean mud and dirt from all exposed parts with water and stiff brush. Remove grease from spring seat parts with approved cleaning solvent (paragraph 3-3b).

##### c. Inspection and Repair.

(1) Inspect for broken or cracked parts. Replace broken or cracked parts.

(2) Check bearing seats and oil seal surface on bracket for rough spots or damage. File or grind smooth high spots, burrs, or roughness. Check that parts meet the requirements of repair standards listed in table 6-1 and figure 6-1.

(3) Replace any part that does not meet these standards.

*d. Installation (fig. 26).*

(1) Prior to installation of spring seat assembly, saturate new encased seal (9) with lubricating oil (fig. 3-1). Pack tapered bushings (11) with automotive grease (fig. 3-1).

(2) Install flat washers (6 and 7), encased seal (9) and inner tapered bushing (11) on axle and bracket assembly (1).

(3) Install inner bearing cup (12) in spring seat (15) and slide seat on axle and bracket assembly against flat washer (7) and seal (9) and over flat washer (6).

(4) Install outer bearing cup (12), outer tapered bushing (11) and inner adjusting nut (17). Using wrench NSN 5120-00-795-0059, tighten inner adjusting nut (17) to a torque of 70 lb-ft. Back off approximately one-quarter of a turn. Spring seat (15) should turn freely without lateral movement.

(5) Install key washer (18) and secure with outer adjusting nut (17), to a torque of 150 lb-ft. Peen outer edges of lock nut over no less than two flats of each adjusting nut.

(6) Install access cover (20) with new cover gasket (19) and secure with six bolts (22) and lock washers (21).

(7) Lower main axles until spring assembly seats in top of spring seat. Spring assembly center bolt must fit into recess in top of spring seat.

(8) Position upper spring seat on top of spring assembly and install two U-bolts over upper spring seat and down through four holes in spring seat assembly. Secure U-bolts with four nuts and lock washers. Torque nuts to 255-280 lb-ft.

(9) Tighten two bolts (13) on inner face of spring seat (15) to a torque of 280-635 lb-ft.

(10) Remove jack supporting axle and bracket assembly.

## CHAPTER 7

### REPAIR OF LANDING GEAR

---

#### 7-1. General

This chapter covers the rigid-type landing gear used on XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824, XM844, and XM845 semitrailers. The swing-up landing gear used on XM847, XM848, XM849, XM850, XM912, and XM913 semitrailers is not authorized for repair. Replacement by organizational maintenance is authorized for the swing-up landing gear.

#### 7-2. Removal

Refer to paragraph 4-51b for removal of landing gear.

#### 7-3. Disassembly (fig. 48)

- a. Remove landing gear wheels (paragraph 4-51e).
- b. Turn landing gear crank shaft until lower leg assembly (29) is in fully retracted position.
- c. Remove four screws with integral washers (42) securing cover (2) and gasket (3) to gear box (38). Remove cover. Remove and discard gasket if replacement is necessary.

##### NOTE

**Removal of cover will provide access for removal of spring (9) and ball bearing (10).**

- d. Drive out pin (12) securing sliding spur gear set (8) to crank shaft (11).
- e. With movement toward the nine-hole gear box mounting flange, remove crank shaft (11). Remove sliding spur gear cluster (8).
- f. Drive out pin (12) securing spur gear cluster (39) and pin (18) retaining bevel gear (5) to gear shaft (17).
- g. With movement away from the nine-hole gear box mounting flange, remove gear shaft (17), woodruff key (13), flat washer (6), bevel gear (5) and spur gear cluster (39).
- h. Remove self-locking nut (4) and spring clip (41) securing bevel gear (40), tapered roller bearing (7) and landing gear screw (22) to gear box (38).

##### NOTE

**Removal of tapered roller bearing (7) from left hand leg gear box will include bearing cup.**

- i. Using soft hammer or bar, drive landing gear screw (22) down until bevel gear (40) machine key (21) and tapered roller bearing (7) can be removed from gear box.

- j. Remove plug (32), spring clip (33) and gib (34) from upper leg assembly (19).

- k. Remove lower leg assembly (29) including landing gear screw (22) and roller thrust bearing (20) from upper leg assembly (19).

- l. Remove roller thrust bearing (20) from landing gear screw (22) and unscrew landing gear screw from nut (30) in lower leg assembly (29).

##### NOTE

**Do not perform steps m, n, and p below unless inspection of parts to be removed indicates that parts are unserviceable.**

- m. With lower leg assembly (29) in inverted position, drive out and remove two pins (31) securing nut (30) inside lower leg tube. Remove nut.

- n. Using arbor press (or equivalent), remove two each sleeve bearings (15 and 16) from gear box (38).

- o. Remove two lubrication fittings (35) from upper leg assembly (19).

#### 7-4. Cleaning

- a. Wipe all parts clean.
- b. Remove old lubricant with approved cleaning solvent (paragraph 3-3b).
- c. Clean roller bearings, gears and screw threads thoroughly.

#### 7-5. Inspection and Repair

- a. Inspect all parts for wear, distortion and cracks. Replace all unserviceable parts.

- b. Cracks in such parts as gear box, cover, upper and lower leg assemblies may be welded to maintain serviceability.

- c. Check gears for worn, cracked or broken teeth. Remove burrs with fine file or abrasive cloth.

- d. Check bearings, bearing cup and sleeve bushings for excessive wear.

- e. Check landing gear screw, crank and gear shafts for wear and straightness. Roll screw and shafts on flat surface to check straightness.

- f. Replace landing gear screw in nut (lower leg assy) and check full length of screw for ease of operation or wear. Remove screw after inspection.

*g.* Check gib and its contacting grooved surface (lower leg assy) for burrs and wear. Remove burrs with fine file and finish with fine abrasive cloth.

*h.* Insert lower leg assembly into upper leg assembly and simulate full retraction and extension action as a check for ease of operation.

*i.* Check wheels and axle for ease of operation and alignment. If practical, straighten and weld as required.

*j.* Check lubrication fittings for serviceability.

*k.* All parts found serviceable, after inspection and repair, must be rust and corrosion free. Use fine file, wire brush or abrasive cloth to clean affected areas.

*l.* Inspect and clean all exterior surfaces for chipped paint. Scrape loose paint and prime coat. (Finish coat to be applied after assembly).

## 7-6. Assembly (fig. 48)

### NOTE

**During various steps of assembly apply lubricants (figs. 3-1 and 3-3) to such parts as roller bearings, sleeve bearings, landing gear screw, gib recess and contact groove, wheels and axle. Check for ease of operation during assembly and installation of parts.**

*a.* If sleeve bearings (15 and 16) have been removed (step n, para 7-3), position new sleeve bearings in gear box (38). Using an arbor press or equivalent, press bearings in place. Match drill, from gear box, 27/64-inch diameter through top of new inner sleeve bearing (15) to allow ball bearing (10) to contact crank shaft (11). Remove burrs and loose chips.

*b.* Use an arbor press or equivalent and install nut (30) in lower leg assembly (29), making sure holes for pins (31) are in perfect alignment.

*c.* Install two pins (31) securing nut (30) to lower leg assembly (29). Make sure pins are fully seated to prevent bind on landing gear screw.

*d.* Install landing gear screw (22) in lower leg assembly (29) and nut (30). Engage screw approximately half its total length.

*e.* Install roller thrust bearing (20) over top upper end of landing gear screw (22) and insert entire lower leg assembly (29) into upper leg assembly (19) until roller thrust bearing (20) makes contact with under side of gear box (38).

*f.* Assemble machine key (21), bevel gear (40) and spring clip (41) to top of landing gear screw (22) and secure with self-locking nut (4).

*g.* Rotate lower leg assembly (29) to align gib contact groove with hole in upper leg assembly (19) and install gib (34), spring clip (33) and plug (32).

*h.* With movement toward nine-hole mounting flange of gear box (38), install gear shaft (17), spur gear cluster (39), woodruff key (13), bevel gear (5) and washer (6).

*i.* Install pin (12) securing gear cluster (39) to gear shaft (17).

*j.* Install pin (18) in gear shaft (17) to retain bevel gear (5).

*k.* With movement through nine-hole mounting flange side of gear box (38), install crank shaft (11) and sliding spur gear cluster (8).

*l.* Install pin (12) securing sliding spur gear cluster (8) to crank shaft (11). Make preliminary operational checks by turning crank shaft (11) to retract and extend lower leg assembly (29).

*m.* Install two lubrication fittings (35) in upper leg assembly (19).

*n.* Install ball bearing (10) and spring (9).

*o.* Position gasket (3) and cover (2) over gear box (38) and secure with four screws with integral lock washers (42).

*p.* Make final operational check. Make sure crank shaft maintains its setting during low and high speed operation.

*q.* Install landing gear wheels (paragraph 4-51g).

*r.* Apply finish coat of paint as required.

## 7-7. Installation

Refer to paragraph 4-51d.

## CHAPTER 8

### REPAIR OF SPRINGS AND TORQUE RODS

#### 8-1. General Description

a. The suspension system consists of a single point, two-spring, tandem axle suspension which utilizes parallelogram type linkage. Two helper spring assemblies are mounted directly over two main spring assemblies.

b. Each end of the main springs rests on wear pads mounted on spring guide brackets attached to the axles.

#### 8-2. Springs

a. Removal. For removal of springs, refer to paragraph 4-53b.

b. Cleaning. Clean mud and dirt from springs

with water and stiff brush. Remove grease with approved cleaning solvent (paragraph 3-3b).

c. *Inspection.* Inspect leaves and clips for cracks or breaks. Note whether excessive wear is apparent on lower leaf of main spring at contact of spring bearing seat. Replace worn or defective leaves and clips and spring guide side plates riveted to the inside of spring guide brackets. Replace if excessive wear is apparent.

d. *Disassembly (fig 8-1).*

(1) Disassemble springs into separate leaves only for replacement of broken leaves. The procedure for disassembly of the helper spring and main spring is identical.

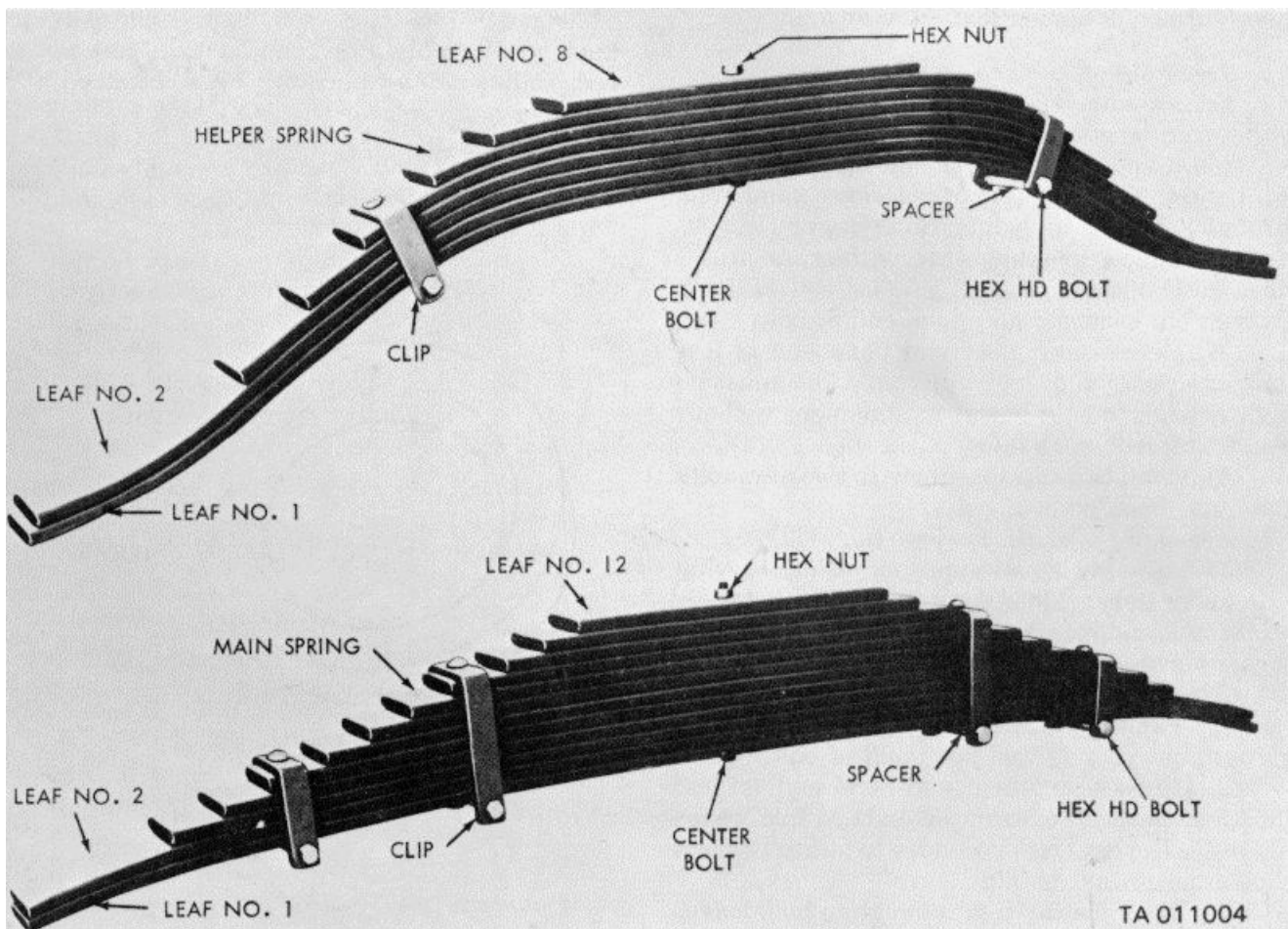


Figure 8-1. Spring assemblies.

(2) Clamp spring in arbor press or vise, or tighten C-clamp over spring near center bolt to hold leaves after spring alignment clips and center bolt have been removed.

(3) File or grind off peened ends of cap screws securing ends of alignment clips. File or grind off peened end of center bolt.

(4) Remove nuts, cap screws and spacers at each alignment clip and discard cap screw. Remove nut on center bolt and discard bolt.

(5) Gradually relieve pressure of press, vise, or C-clamp and separate leaves. If necessary, use heat to open alignment clips.

*e. Cleaning Spring Leaves.* Clean each leaf with approved cleaning solvent (paragraph 3-3b). Brush or buff rust and corrosion from leaves.

*f. Inspection and Repair.* Inspect each leaf for cracks or breaks. Replace defective leaves. Make sure rivets hold clips tightly. Check leaf clips for cracks. Cut out and replace any defective rivet. Make sure new rivet head does not extend above inner surface of spring leaf after forming.

*g. Assembly of helper spring (fig. 8-1).*

(1) Assemble leaves in proper order starting with lower (larger) leaf number 1. Aline holes for center bolt and insert center bolt into hole in leaf No. 1 and through holes in other leaves numbers 2 through 8. Do not apply lubricant between leaves.

(2) Clamp leaves together with arbor press, vise, or C-clamps. Install nut on center bolt. Tighten nut securely and peen end of bolt.

(3) If necessary, heat and bend end of leaf clips into position over five leaves. Clips must be tight enough to hold leaves in alinement without restricting free movement of leaves.

(4) Install two clip spacers with two new bolts and nuts. Peen ends of bolts.

*h. Assembly of main spring (fig. 8-1).*

(1) Assemble leaves in proper order, starting with lower (larger) leaf number 1. Aline holes for center bolt and insert new center bolt through 12 spring leaves.

(2) Clamp leaves together with arbor press, vise, or C-clamps. Install nut on center bolt. Tighten nut securely and peen end of bolt.

(3) If necessary, heat and bend ends of leaf clips into position over outer ends of five leaves (fig. 8-1). Repeat this procedure to locate two leaf clips in position over nine leaves.

(4) Clips must be tight enough to hold leaves in alinement without restricting free movement of leaves.

(5) Install four clip spacers with four new bolts and nuts. Peen ends of bolts.

*i. Installation.* For installation of spring assemblies, refer to paragraph 4-53c.

### 8-3. Torque Rods

*a. Removal.* For removal of torque rods, refer to paragraphs 4-55a and 4-55c.

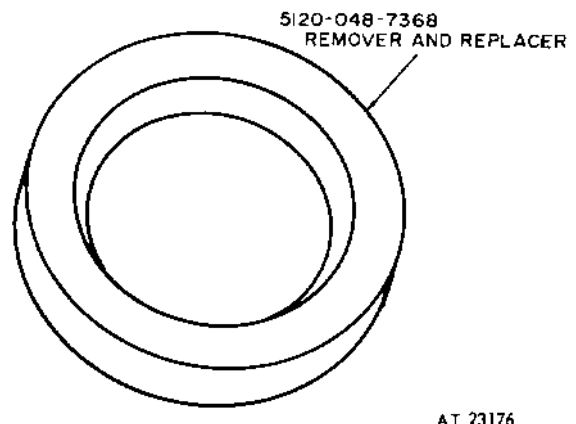
*b. Cleaning.* Clean with water and soft brush. Inspect for damaged threads while cleaning

*c. Inspection and Repair.*

(1) Examine rubber for loss of elasticity or breaks in material. Make certain ball with bushing assembly is securely mounted in rod.

(2) Remove burrs and hand chase damaged threads with fine file. If damage thread cannot be corrected, if rubber is hard or cracked, or if ball with bushing assembly is loose in rod, install new ball with bushing assembly.

(3) To install new assembly, mount rod in arbor press. Using remover and replacer NSN 5120-00-048-7368 (fig. 8-2), press out ball with bushing assembly. Position new ball, with torque rod, radius side of bore up. Press into rod with remover and replacer (fig. 8-2).



AT 23176

Figure 8-2. Torque rod ball remover and replacer.

*d. Installation.* For installation of torque rod, refer to paragraph 4-55b and 4-55d.



## CHAPTER 9 MAINTENANCE OF AUXILIARY EQUIPMENT

### Section I. ORGANIZATIONAL MAINTENANCE

#### 9-1. General

This chapter describes the auxiliary equipment used with some of the semitrailers. Procedures are included for removal and installation of this equipment.

#### 9-2. Air conditioner, XM654

a. *General.* The XM654 semitrailer is equipped

with two model CE60VAL6, 208volt, three-phase, 60 Hz, 60, 000 BTU air conditioners, mounted on the front platform. The control panels are located on the right side wall near the partition.

b. *Removal (fig. 9-1).*

(1) Remove the two access panels from front wall in the interior of van, beneath the plenum chamber partition.

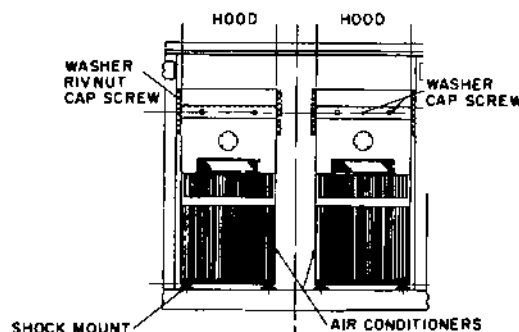
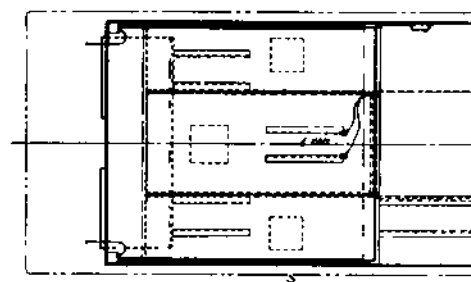
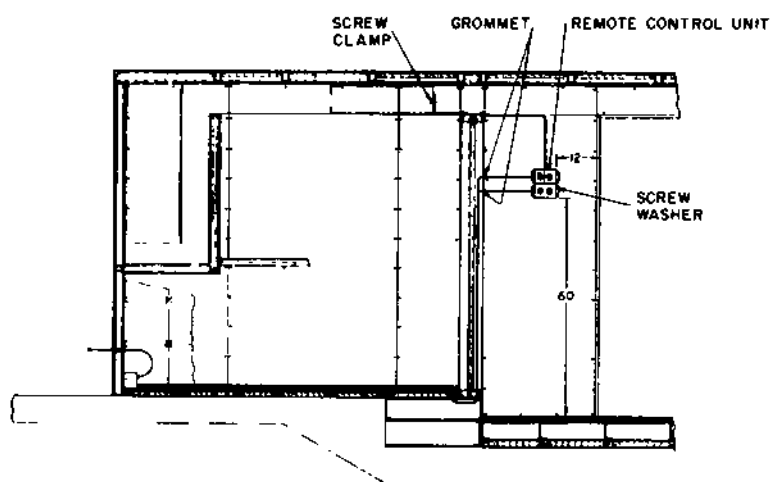


Figure 9-1. Air conditioner and remote control unit, XM654

(2) Disconnect both power and remote control cables. Place cables so that they hang into van through the access opening and are taut against front wall of van, out of the way of air conditioner units.

(3) Loosen both large hexagonal cap screws on each hood assembly.

(4) Unscrew cap screws which hold hood assembly in place against van wall.

(5) Unscrew 16 cap screws from rivnuts and remove hood.

(6) Remove screws which run through centers of shock mounts, and remove air conditioner unit.

c. *Installation (fig. 91).*

(1) Position air conditioner on shock mounts and secure in place with the screws which run through the centers of the shock mounts.

(2) Position hood assembly using the two large hexagonal cap screws on each hood assembly as positioning guides.

(3) Thread 16 cap screws into the nuts with blind rivets and tighten.

- (4) Secure hood assembly to van wall with cap screws.
- (5) Connect power and remote control cables.
- (6) Replace the two access panels from front wall in the interior of the van.

### 93. Remote Control Unit, XM654

#### *a. Removal.*

- (1) Remove grille from return air duct at front of van.
- (2) Remove the two air filters from opening created by removal of grille.
- (3) Loosen capillary tube securing clips inside the return air duct by removing the screw holding each clip. Slip tube free of its securing clip.
- (4) Disconnect power cables.
- (5) From along the underside of air supply duct against van wall, remove the securing clips holding copper tubing in place.
- (6) Unfasten lower remote control unit first by removing four screws holding it in place. This is the remote control unit with longer copper tubing. Handle the unit carefully to prevent damage to tubing.
- (7) Unfasten and remove upper remote control unit, following the procedure in (6) above.

#### *b. Installation.*

- (1) Remove return air grille and the two air filters if they have not previously been removed.
- (2) Carefully lift remote control unit with shorter capillary tube to upper mounting base on right wall of van. Make certain that capillary tube is not kinked, unduly bent, or damaged. Fasten unit with four screws and washers.
- (3) Carefully extend the capillary tube along the wall to the bottom of the air supply duct. From

there, run it across bottom of air supply duct, through the grille opening and air filter brackets to the closer capillary tube bracket located inside the air duct. Make certain there are no kinks or sharp bends in the tube.

(4) Place rubber capillary securing clip on capillary tube bracket. Slip capillary tube into rubber securing clip and tighten securing bolt so that clip holds tube firmly but does not crush it.

(5) Repeat this procedure for the lower remote control unit. Copper tubing for this unit runs to the bottom of air supply duct to left of copper tubing already in place. It will run along bottom of air supply duct and to opening in the return air duct, just below tubing installed for upper unit.

Secure with rubber securing clip of the farther capillary tube bracket inside return air duct.

(6) Fasten tubing to van wall with securing clips, each clip holding both tubes, using a screw and washer for each clip.

(7) Install two air filters on their supporting brackets.

(8) Install return air grille with 22 screws.

### 94. Air Conditioner, XM680, XM680E1

*a. General.* The XM680 and XM680E1 semitrailers are equipped with four model CE20VAL6, 208volt, three-phase, 60 Hz, 18, 000 BTU air conditioners, mounted in front directly to the rear of the front doors. The remote control units are located on the inside face of the front bulkhead.

*b. Removal (fig 92)*

- (1) Disconnect damper control chains from each return air grille. Remove return air grilles from partition in van interior.

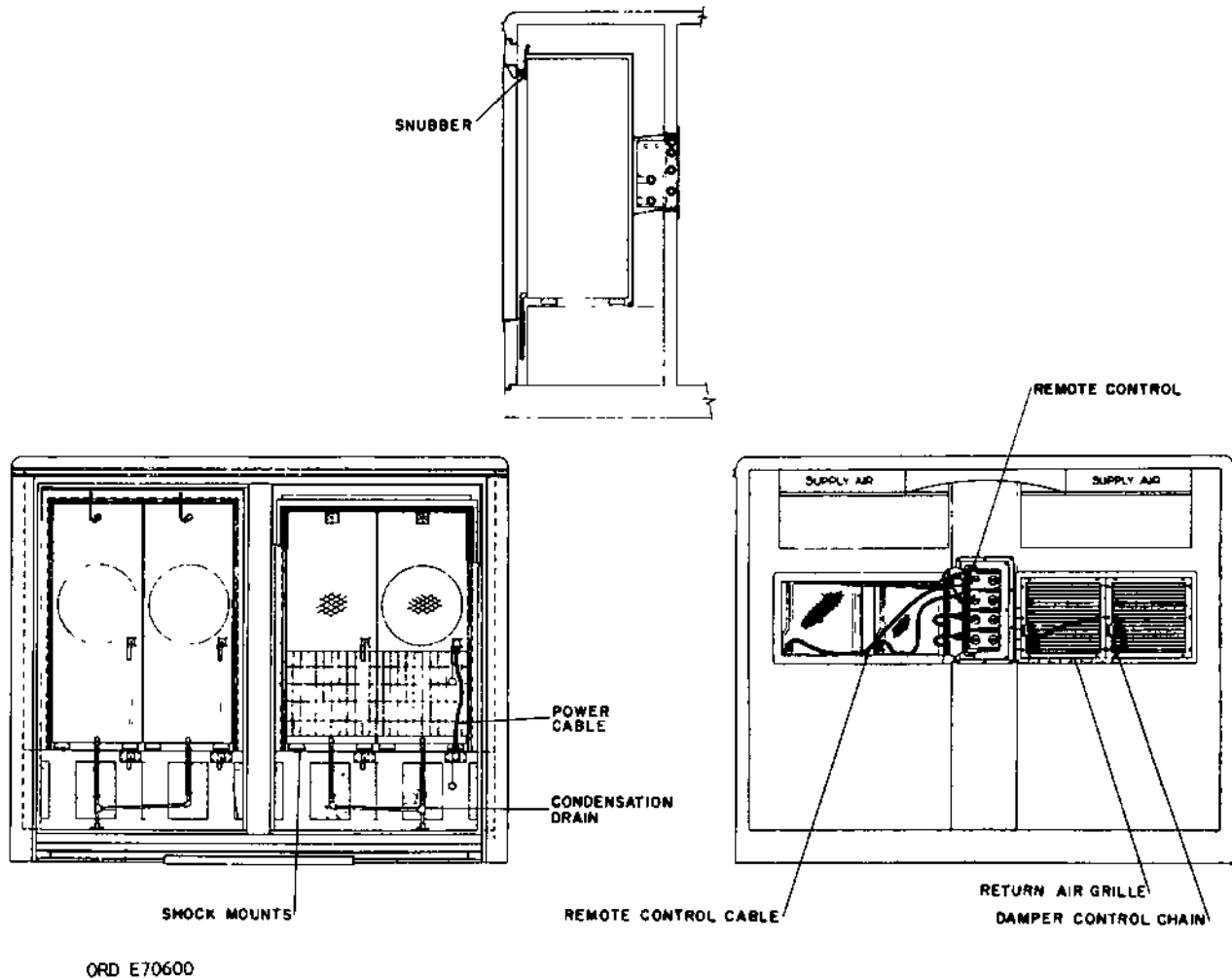


Figure 9-2. Air conditioner and remote control unit, XM680, XM680E1

(2) Disconnect remote control cable at air conditioner end in interior of van.

(3) Open front doors and latch in place with stabilizing rods.

(4) Disconnect power cable, first at top and then at bottom.

(5) Stow loose cables in a safe place to prevent loss or damage during removal of air conditioner.

(6) Loosen upper hose clamps on condensation drains at base of air conditioner unit and slide hoses down from couplings.

(7) Unscrew snubber assembly holding collars from stud assemblies of each unit allowing snubber assemblies to hang free.

(8) Remove screws from centers of shock mounts.

(9) Remove air conditioner unit by sliding it forward on mounts until it can be grasped and lifted off.

c. Installation (fig. 92).

(1) Position air conditioner on shock mounts and secure in place with the screws which run through the centers of the shock mounts.

(2) Position snubber assembly and secure in place with the stud assemblies.

(3) Install condensate drain hoses and secure with the hose clamps.

(4) Connect power and remote control cables.

(5) Fasten remote control cable assembly to air conditioner shock mount with jiffy clip, screw and washer.

(6) Place return air grilles into position and fasten with screws and washers.

(7) Connect damper control chain.

#### 9-5. Remote Control Unit, XM680, XM680E1

##### a. Removal.

(1) Disconnect damper control chain from

each return air grille. Remove grilles from partition.

(2) Unfasten and remove capillary tube securing clips between air conditioner units. Take care not to kink, unduly bend or otherwise disturb soft copper tubing. Exercise caution in handling sensitive capillary tubes. Let tubes and tubing sag and hang in place. Stow clips where they will not be lost.

(3) Unscrew and remove slotted plates attached to air conditioner housings. Note that slotted sections fit around lower cables but that capillary tubing enters these plates through two holes at top. To remove plates, move them along copper tubes to capillary tubes, and then past these tubes.

(4) Unfasten and remove long narrow plate through which remote control cables enter the control unit housing. Move plate back along cables far enough to obtain access to connector assemblies within the housing.

(5) Reach through access openings in control assembly casting and disconnect cables.

(6) If it is necessary to remove narrow plate from cables, remove grommets from plate and slide plate over the connectors at the cable ends.

(7) Unfasten and remove remote control housing cover from front face of control unit assembly.

(8) Unfasten and remove each control unit from its assembly base. Exercise caution to prevent damage to capillary tubes and to prevent kinking, unduly bending, or deforming soft copper tubing.

*b. Installation.* Install remote control units in reverse order of paragraph 95a, paying particular attention to the following:

(1) The wiring of the two lower control units must be carefully curved around the remote control units to fit through upper two holes in slotted places on right side of remote control housing.

(2) Assemble narrow plates around the two lower cables, one plate with open slot ends toward inside of van, and the other plate with open slot ends toward outside of van.

(3) Use care to prevent damage to the capillary tubes and the tubing.

## 9-6. Air Conditioner, XM822

*a. General.* The XM822 semitrailer is equipped with a model 76E34104, 208volt, three phase, 60 Hz, 60, 000 BTU air conditioner, mounted inside the front door. The remote control unit is located in the main control panel in the laboratory compartment.

### *b. Removal.*

(1) Disconnect power cables.

(2) Disconnect ducts from rear of air conditioner.

(3) Loosen hose clamps and disconnect the condensate hoses.

(4) Remove attaching hardware from base of air conditioner.

(5) Slide the air conditioner through the door opening while carefully supporting it.

(6) Use a suitable fork lift truck and remove the unit from the semitrailer.

### *c. Installation.*

(1) Use a suitable fork lift truck and place the unit in the semitrailer.

(2) Slide the air conditioner onto the mounting base.

(3) Secure air conditioner with attaching hardware.

(4) Install hoses and tighten hose clamps.

(5) Connect ducts to rear of air conditioner.

(6) Connect power cables.

## 9-7. Air Conditioner Remote Control Unit, XM822

### *a. Removal.*

(1) Remove screws attaching unit to electrical control panel.

(2) Partially remove control panel and disconnect wires from rear of unit.

### *b. Installation.*

(1) Attach wires to rear of unit.

(2) Position unit on electrical control panel and secure with attaching hardware.

## 9-8. Heating System, XM654, XM680, XM680E1

Heat for the XM654, XM680 and XM680E1 semitrailers is supplied through heat strips located in the air conditioners.

## 9-9. Heating System, XM822

*a.* The XM822 semitrailer has a heating system composed of a heater assembly consisting of 12 heating elements located in the air conditioning duct to the rear of the air conditioner.

*b.* The heater assembly contains six 1000watt, 220volt elements located on the lower tier, and six 1600watt, 220volt elements located on the upper tier of the heater assembly.

*c.* The remote control unit is located on the left wall, forward of the main control panel.

*d. Removal of Heating Element (fig. 84)*

**WARNING**

Turn the HEATER circuit breaker OFF before proceeding with the following.

(1) Remove screws (9) securing heater assembly (8) in position and lower heater assembly.

(2) Remove and mark wires leading to heater element.

(3) Remove nuts (15), washers (16) and screws (17) and remove heating element (13 or 14) from heater assembly (8).

*e. Installation of Heating Element (fig. 84).*

(1) Position heating element (13 or 14) and secure with screws (17), washers (16) and nuts (15).

(2) Attach wires to proper terminals.

(3) Position heater assembly (8) and secure with screws (9).

*f. Removal of Thermostatic Switch (fig. 85)*

(1) Remove screws (9) and pull cover (2) back part way.

(2) Remove thermostat wires from terminal board (5).

(3) Remove attaching hardware and remove thermostatic switch (10).

*g. Installation of Thermostatic Switch (fig 85)*

(1) Position thermostatic switch (10) and secure with its attaching hardware.

(2) Connect wires to proper terminals of terminal board (5).

(3) Position cover (2) and secure with screws (9).

**Section II. DIRECT SUPPORT AND GENERAL  
SUPPORT MAINTENANCE**

**9-10. General**

Direct support and general support maintenance instructions are beyond the scope of this manual.

The specialized repair facility performing this maintenance should be notified.

APPENDIX A  
REFERENCES

---

A-1. Publication Indexes

Index of Army Motion Pictures and Related Audio-Visual Aids ..... DA PAM 108-1  
Consolidated Index of Army Publications and Forms ..... DA PAM 310-1

A-2. Forms

Refer to TM 38-750, The Army Maintenance Management Systems (TAMMS), for instructions on the use of maintenance forms pertaining to the materiel.

A-3. Field Manuals, Supply Bulletins, Technical Bulletins, and Technical Manuals

Camouflage ..... TB 43-0209  
Chemical, Biological and Radiological (CBR) Decontamination ..... TB 3-220  
Nuclear, Biological and Chemical Defense ..... FB 21-40  
Basic Cold Weather Manual..... FM 31-70  
Manual for Wheeled Vehicle Driver..... FM 21-305  
Welding Theory and Application..... TM 9-237  
Organizational Care, Maintenance and Repair of Pneumatic Tires and Inner-Tubes..... TM 9-2610-200-20  
Operation and Maintenance of Ordnance Materiel in Cold Weather (0° to - 65°F) ..... FM 9-207  
Procedures for Destruction of Tank-Automotive Equipment to Prevent Enemy Use ..... TM 750-244-6  
Administrative Storage of Equipment ..... TM 740-90-1

## APPENDIX B COMPONENTS OF END ITEM AND BASIC ISSUE ITEM LIST

### Section I. INTRODUCTION

#### B-1. Scope

This appendix lists integral components of and basic issue items for the semitrailer, van: electronic, XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824, XM844, XM845, XM847, XM848, XM849, XM850, XM912, and XM913 to help you inventory items required for safe and efficient operation.

#### B-2. General

This Components of End Item List is divided into the following sections:

*a. Section II. Integral Components of the End Item.* These items, when assembled, comprise the semitrailer and must accompany it whenever it is transferred or turned in. The illustrations will help you identify these items.

*b. Section III. Basic Issue Items.* These are the minimum essential items required to place the semitrailer in operation, to operate it, and to perform emergency repairs. Although shipped separately packed they must accompany the semitrailer during operation and whenever it is transferred between accountable officers. The illustrations will assist you with hard to identify items. This manual is your authority to requisition replacement BII, based on TOE/MTOE authorization of the end item.

#### B 3. Explanation of Columns

- a. Illustration.* This column is divided as follows:
- (1). *Figure Number.* Indicates the figure number of the illustration on which the item is shown.
  - (2). *Item Number.* The number used to identify item called out in the illustration.
- b. National Stock Number.* Indicates the National stock number assigned to the item and which will be used for requisitioning.

This section is not applicable.

*c. Part number.* Indicates the primary number used by the manufacturer which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

*d. Description.* Indicates the Federal item name and, if required, a minimum description to identify the item.

*e. Location.* The physical location of each item listed is given in this column. The lists are designed to inventory all items in one area of the major item before moving on to an adjacent area.

*f. Usable on Code.* "USABLE ON" codes are included to help you identify which component items are used on the different models. Identification of the codes used in these lists are:

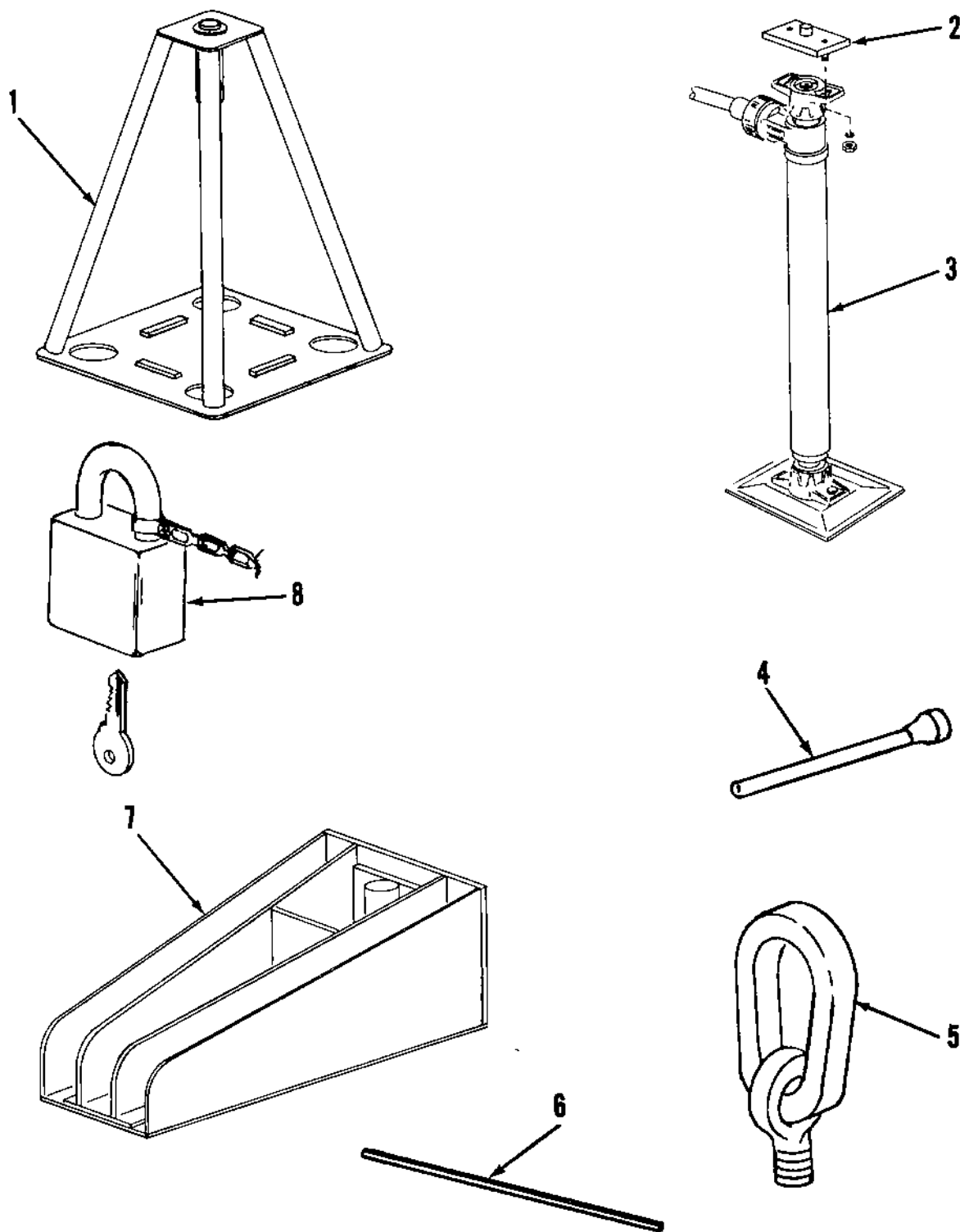
Code	Used On
A09	XM680
A10	XM654
A11	XM738
A12	XM574
A13	XM574E1
A14	XM680E1
C13	XM822
C14	XM844
C15	XM845
C16	XM847
C17	XM848
C18	XM849
C19	XM850
C58	XM824
C59	XM823
C61	XM912
C62	XM913
140	XM739
26F	XM739E1

*g. Quantity Required (Qty Req'd).* This column lists the quantity of each item required for a complete major item.

*h. Quantity.* This column is left blank for use during an inventory. Under the Rcv'd column, list the quantity you actually receive on your major item. The Date Columns are for your use when you inventory the major item at a later date such as for shipment to another site.

### Section II. INTEGRAL COMPONENTS OF END ITEM

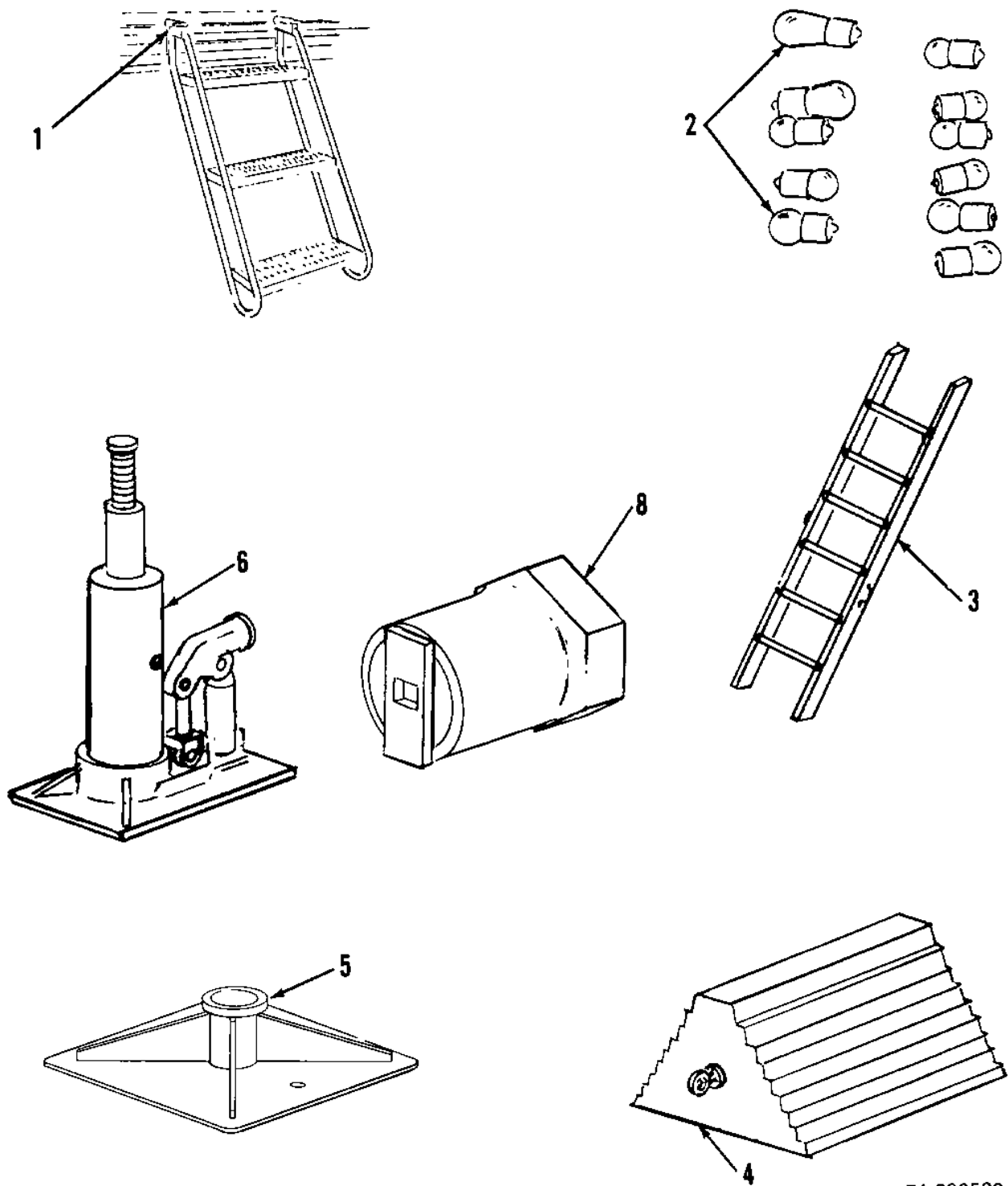
This section is not applicable.



TA 096579

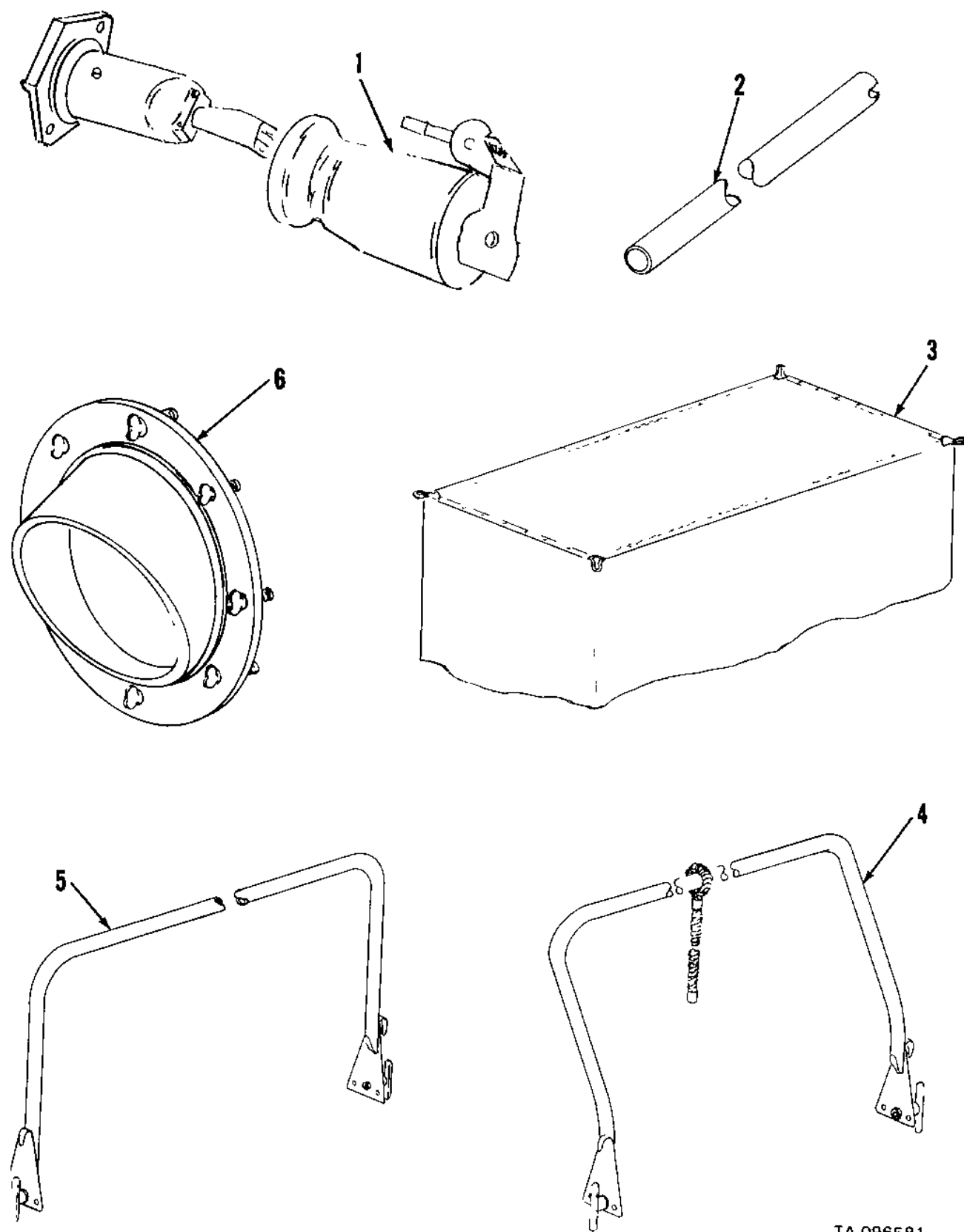
Figure B-1. Basic issue items





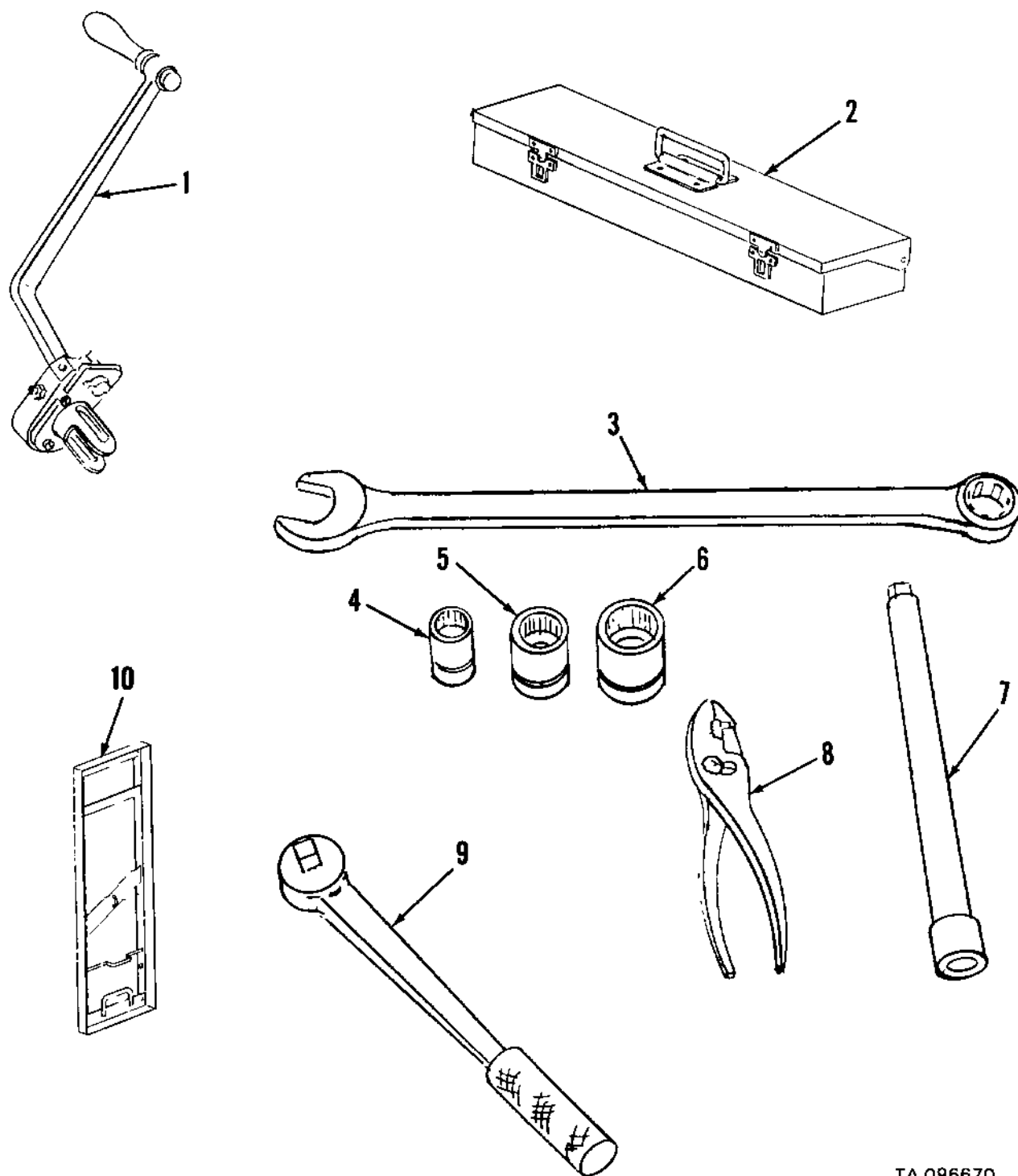
TA 096580

Figure B-2 Basic Issue items  
B-3



TA 096581

Figure B-3 Basic Issue items.  
B-4



TA 096670

Figure B-4. Basic issue items.  
B-5

## SECTION III. BASIC ISSUE ITEMS

(1)		(2) National Stock Number	(3) Part No.	(4) Description	(5) LOCATION	(6) USABLE ON CODE	(7) QTY REQD	(8) QUANTITY	
(a) Fig. No	(b) Item Date							Rcvd	Date
B-1	5	2510-01-031-4455	11681435	ADAPTER leveling support jack		C16, C17, C18, C19, C61, C62	2		
B-1	4	2590-01-098-1935	11681226	ADAPTER loadingjack		C14, C15	2		
B-3	4	2540-00-856-1955	8747249	BOW tarpaulin		A09, A11, A12, A13, A14, C58, C59, 140, 26F	2		
B-3	5	2540-00-856-1954	8747250	BOW: tarpaulin		A09, A12, A13, A14	11		
B-3	5	2540-00-856-1954	8747250	BOW tarpaulin		C58, C59	13		
B-3	5	2540-00-856-1954	8747250	BOW tarpaulin		A11, 140, 26F	14		
B-4	10	4910-00-357-5494	7346922	BRACKET, TOOL		A10, A11, A13, C13, C14, C15, C16, C17, C18, C19, C58, C59, 140, 26F	1		
B-3			13835912	CABLE ASSEMBLY, SPECIAL		A09, A10, A11, A12, A13, A14, C58, C59, 140, 26F	1		
B-3	1	5996-00-435-2498	11638024	CABLE ASSEMBLY, SPECIAL		C13, C14,1 C15, C16, C17, C18, C19, C61, C62			
B-2	4		MS52127-2	CHOCK, WHEEL			2		
B-3	6	2540-00-946-8369	3835934	COVER ASSEMBLY vent		A11, 140, 26F	2		
B-4	1	2590-00-856-1950	10882198	CRANK, RATCHET		A09, A10, A11, A12, A13, A14, C13, C58, C59, 140, 26F	2		
		4210-00-655-8837	10916537	EXTINGUISHER, FIRE		A09, A10, A14	2		
		4210-00-555-8837	10916537	EXTINGUISHER, FIRE		A11, 140 26F	1		
		4210-00-555-8837	10916537	EXTINGUISHER, FIRE		C13	4		
B-1			GGG-H-86C1	HAMMER: ball peen		C61	1		
			641-H-1541	HANDLE: leveling jack			2		
B-1	3	2610-00-269-7383	MS35392-13	INNER TUBE			1		
B-1		2590-01-038-1507	11646252	JACK leveling-support		C14, C15, C16, C17 C18, C19, C61, C62	2		
B-2	6		MS16283-4	JACK hydraulic		C14, C15, C16, C17, C18, C19, C61 C62	1		

## SECTION II. BASIC ISSUE ITEMS

(1)		(2) National Stock Number	(3) Part No.	(4) Description	(5) LOCATION	(6) USABLE ON CODE	(7) QTY REQD	(8) QUANTITY	
(a) Fig. No	(b) Item Date							Rcvd	Date
B-2	1	2540-00-856-1956	10882157	LADDER		A12, A13 140	2		
B-2	1	2540-01-098-5106	3234520	LADDER		A10	2		
B-2	1	2540-00-868-5661	10882157-1	LADDER		A11, C13, C58, C59, 26F	2		
B-2	1	2540-01-101-8451	3486974	LADDER		A09	1		
B-2	1	2540-01-098-5147	3486965	LADDER		A09	1		
B-2	1	2540-01-049-6350	11681466	LADDER		C14, C15	2		
B-2	1	2540-01-087-6980	11684408	LADDER		C16, C17, C18, C19, C61, C62	2		
B-2	3	2540-00-964-6034	10891462	LADDER		A11, A12, A13, C14, C15, C16, C17, C18 C19, C61, C62, 140, 26F	1		
B-2	1	2540-00-868-5660	8389462-1	LADDER		C13, C58, C59	1		
B-2	1	2540-01-098-6739	3670937	LADDER		A10	1		
B-2	2	6240-00-155-8717	MS15570-67	LAMP, INCANDESCENT		C14, C15, C16, C17, C18, C19, C61, C62	13		
B-2	2	6240-00-155-8717	MS15570-67	LAMP, INCANDESCENT		A13, C58, C59, 26F	11		
B-2	2	6240-00-019-0877	MS15570-1251	LAMP, INCANDESCENT	C14, C15,	13 C16, C17, C18, C19, C61, C62			
B-2	2	6240-00-617-0991	MS35478-1073	LAMP, INCANDESCENT	C14, C15,	2 C16, C17, C18, C19, C61, C62			
B-2	2	6240-00-044-6914	MS35478-1683	LAMP, INCANDESCENT		C14, C15, C16, C17, C18, C19, C61, C62	2		
B-2	2		1141(89315)	LAMP, INCANDESCENT		A13, C58, C59, 26F	2		
B-1	8	5340-00-9124087	MS21313-161	PADLOCK AND CHAIN		C58, C59	5		
B-1	8	5340-00-682-1508	MS35647-7	PADLOCK AND CHAIN		C58, C59, 140, 26F	5		
B-1	8	5340-00-682-1508	MS35647-7	PADLOCK AND CHAIN		A11	4		
B-1	8	5340-00-682-1508	MS35647-7	PADLOCK AND CHAIN		A09, A14	6		
B-1	8	MS35647-3	PADLOCK AND CHAIN			A10	2		
B-1	8	MS21313-162	PADLOCK SET	A12, A13,		1 C14, C15, C16, C18, C61, C62			
B-1	8	5340-00-912-4087	MS21313-161	PADLOCK SET		C17, C19	1		
B-1	8	5340-00-291-4214	MS21313-103	PADLOCK SET		C13	1		
B-1	8	5340-00-838-5266	MS21313-124	PADLOCK SET		C13	1		
		5120-00-222-1904	(71612)78	PUNCH, DRIFT		C61	1		
B-1	5	1670-01-092-9236	MS21237-1B	RING, TIEDOWN		C61, C62	2		
				<b>B-7</b>					

## SECTION II. BASIC ISSUE ITEMS

(1)		(2) National Stock Number	(3) Part No.	(4) Description	(5) LOCATION	(6) USABLE ON CODE	(7) QTY REQD	(8) QUANTITY	
(a) Fig. No	(b) Item Date							Rcvd	Date
B-3	2	5340-01-061-1785	11681273	ROD tarpaulin		C16, C17, C18	34		
B-3	2	5340-01-061-1785	11681273	ROD tarpaulin		C14, C15	36		
B-3	2	5340-01-061-1785	11681273	ROD tarpaulin		C19	40		
B-3	2	5340-01-061-1785	11681273	ROD tarpaulin		C19	40		
		2590-00-847-0390	8735553	SHOE vehicle support, landing gear		A09, A11, A12, A13, A14, C58, C59, 140, 26F	2		
		2540-00-773-9385	8737178	SHOE vehicle support, landing gear		A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	2		
B-2	5	2590-00-856-1952	8747207	SHOE vehicle support, leveling jack			2		
B-1	1	2590-01-043-7892	11646249	STAND, JACK, LEVELING		C14, C15, C16, C17, C18, C19, C61, C62	2		
B-3	3	2540-01-098-6787	11681247	TARPAULIN, SOLAR		C14, C15, C16, C17, C18	1		
B-3	3		11684363	TARPAULIN, SOLAR		C19	1		
B-3	3	2540-00-946-	8477 8747551	TARPAULIN, SOLAR		A09, A12, A13, A14	1		
B-3	3	2540-00-050-0765	9884950	TARPAULIN, SOLAR		A11, 26F	1		
B-3	3	2540-01-098-6786	9772903	TARPAULIN SOLAR		140	1		
B-3	3	2540-01-111-5448	9040950	TARPAULIN, SOLAR		C58, C59	1		
		2610-00-262-8677	MS35388-16	TIRE, PNEUMATIC			1		
B-4	2	5180-01-042-3394	11646244	TOOL KIT composed of		C14, C15, C16, C17, C18, C19, C61, C62	1		
B-4	7		GGG-W641D3	EXTENSION socket			1		
B-4	9		GGG-W641D3	HANDLE RATCHET			1		
B-4	8		GGG-P471C6	PLIERS			1		
B-4	4		GGG-W641D3	SOCKET 3/4 in			1		
B-4	5		GGG-W641D3	SOCKET 15/16 in			1		
B-4	6		GGG-W641D3	SPCKET 1 1/8 in			1		
B-4	3		GGG-W636D1	WRENCH			1		
B-1	2	11646402		UPPER MOUNT ASSEMBLY jack		C14, C15, C16, C17, C18, C19, C61, C62	2		
		2640-00-060-3550	MS51375-1	VALVE, CAP		Inner tube	1		
		2640-00-810-5861	MS51377-1	VALVE CORE		Inner tube	1		
		2530-00-026-0265	7389621	WHEEL		1			
B-2	7		11684409	WRENCH wheel bearing nut		C14, C15, C16, C17, C18, C19, C61, C62			
B-8									

SECTION II. BASIC ISSUE ITEMS

(1)		(2) National Stock Number	(3) Part No.	(4)  Description	(5)  LOCATION	(6)  USABLE ON CODE	(7)  QTY REQD	(8) QUANTITY	
(a) Fig. No	(b) Item Date							Rcvd	Date
B-2	7	5120-00-104-4076	10897070	WRENCH wheel bearing nutA09,	A10 A11, A12, A13, A14, C13, C58, C59, 140, 26F	1			
B-1	4		41W3838-30	WRENCH wheel nut		1			

## APPENDIX C ADDITIONAL AUTHORIZATION LIST

---

### Section I. INTRODUCTION

#### C-1. Scope

This appendix lists additional items you are authorized for the support of the semitrailer.

#### C-2. General

This list identifies items that do not have to accompany the semitrailer and that do not have to be turned in with it. These items are all authorized to you by CTA, MTOE, TDA, or JTA.

#### C-3. Explanation of Listing

National stock numbers, descriptions, and quantities are provided to help you identify and request the additional items you require to support this equipment. If item required differs for different models of this equipment, the model is shown under the "USABLE ON" heading in the description column. These codes are identified as:

<i>Code</i>	<i>Used On</i>
A09	Model XM680
A10	Model XM654
A11	Model XM738
A12	Model XM574
A13	Model XM574E1
A14	Model XM680E1
C13	Model XM822
C14	Model XM844
C15	Model XM845
C16	Model XM847
C17	Model XM848
C18	Model XM849
C19	Model XM850
C58	Model XM824
C59	Model XM823
C61	Model XM912
C62	Model XM913
140	Model XM739
26F	Model XM739E1



(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION		(3)	(4)
	PART NO. & FSCM	USABLE ON CODE	U/M	QTY AUTH
	Non authorized			

## APPENDIX D MAINTENANCE ALLOCATION CHART

### Section I. INTRODUCTION

#### D-1. General

a. This section provides a general explanation of all maintenance and repair functions authorized at various maintenance categories.

b. The Maintenance Allocation Chart (MAC) in section II designates overall responsibility for the performance of maintenance functions on the identified end item or component. The implementation of the maintenance functions upon the end item or component will be consistent with the assigned maintenance functions.

c. Section III lists the special tools and test equipment required for each maintenance function as referenced from section II.

d. Section IV contains supplemental instructions and explanatory notes for a particular maintenance function.

#### D-2. Maintenance functions.

Maintenance functions will be limited to and defined as follows: (except for ammunition MAC).

a. *Inspect.* To determine the serviceability of an item by comparing its physical, mechanical, and/ or electrical characteristics with established standards through examination.

b. *Test.* To verify serviceability by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.

c. *Service.* Operations required periodically to keep an item in proper operating conditions; i.e., to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids, or gases.

d. *Adjust.* To maintain, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to specified parameters.

e. *Aline.* To adjust specified variable elements of an item to bring about optimum or desired performance.

f. *Calibrate.* To determine and cause corrections to be made or to be adjusted on instruments or test, measuring, and diagnostic equipments used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect

and adjust any discrepancy in the accuracy of the instrument being compared.

g. *Install.* The act of emplacing, seating, or fixing into position an item, part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.

h. *Replace.* The act of substituting a serviceable like type part, subassembly, or module (component or assembly) for an unserviceable counterpart.

i. *Repair.* The application of maintenance services or other maintenance actions to restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item or system.

j. *Overhaul.* That maintenance effort (service/ action) necessary to restore an item to a completely serviceable/operational condition as prescribed by maintenance standards in appropriate technical publications (i.e., DMWR). Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

k. *Rebuild.* Consists of those services/actions necessary for the restoration of serviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours/miles, etc) considered in classifying Army equipments/components.

#### D3. Explanation of Columns in the MAC, Section II

a. *Column 1, Group Number* Column 1 lists functional group code numbers, the purpose of which is to identify components, assemblies, subassemblies, and modules with the next higher assembly.

b. *Column 2, Component/Assembly* Column 2 contains the names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

c. *Column 3, Maintenance Function* Column 3 lists the functions to be performed on the item listed in Column 2. (For detailed explanation of these functions, see paragraph D2).

d. *Column 4, Maintenance Category* Column 4 specifies, by the listing of a work time figure in the appropriate subcolumn(s), the category of maintenance authorized to perform the function listed in Column 3. This figure represents the active time required to perform that maintenance function at the indicated category of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance categories, appropriate work time figures will be shown for each category. The work time figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time, troubleshooting time, and quality assurance/quality control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the maintenance allocation chart. The symbol designations for the various maintenance categories are as follows:

C.....Operator or crew.  
O.....Organizational maintenance.  
F.....Direct support maintenance.  
H.....General support maintenance.  
D.....Depot maintenance.

e. *Column 5, Tools and Equipment* Column 5 specifies, by code, those common tool sets (not

individual tools) and special tools, TMDE, and support equipment required to perform the designated function.

f. *Column 6, Remarks* This column shall, when applicable, contain a letter code in alphabetic order, which shall be keyed to the remarks contained in Section IV.

#### D-4. Explanation of Columns in Tool and Test Equipment Requirements, Section III

a. *Column 1, Reference Code.* The tool and test equipment reference code correlates with a code used in the MAC, Section II, Column 5.

b. *Column 2, Maintenance Category.* The lowest category of maintenance authorized to use the tool or test equipment.

c. *Column 3, Nomenclature Name or identification of the tool or test equipment* d. *Column 4, National Stock Number.* The National stock number of the tool or test equipment.

e. *Column 5, Tool Number* The manufacturer's part number.

#### D 5. Explanation of Columns in Remarks, Section IV

a. *Column 1, Reference Code* The code recorded in column 6, Section II.

b. *Column 2, Remarks.* This column lists information pertinent to the maintenance function being performed as indicated in the MAC, Section II.

### Section II.

MAINTENANCE ALLOCATION CHART FOR  
SEMITRAILER, VAN: ELECTRONIC, XM574, XM574E1, EX654, XM680  
XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824,  
XM844, XM845, XM847, XM848, XM850, XM912, XM913

(1) GROUP NUMBER	(2) COMPONENT ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT	(6) REMARKS
			C	O	F	H	D		
06 0608	ELECTRICAL SYSTEM	Inspect		0 1					
	COVER ASSEMBLY	Replace		0 2					
	CIRCUIT BREAKER	Inspect		0 1					
		Replace		0 1					
	RECEPTACLE	Inspect		0 1					
		Replace		0 2					
	SWITCH	Inspect		0 1					
		Replace		0 2					

## SECTION II.

MAINTENANCE ALLOCATION CHART FOR  
SEMITRAILER, VAN: ELECTRONIC, XM574, XM574E1, EX654, XM680  
XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824,  
XM844, XM845, XM847, XM848, XM850, XM912, XM913

(1) GROUP NUMBER	(2) COMPONENT ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT	(6) REMARKS
			C	O	F	H	D		
0609	LAMP	Inspect	0 1						
		Replace	0 2						
	LIGHT	Inspect		0.1					
		Replace		0.2					
0613	WIRING HARNESS, MAIN AND ROOF	Inspect		0.1					
		Test		0 3					
		Replace			3.0				
		Repair			4 0				
	ELECTRICAL LEAD ASSEMBLY	Inspect		0 1					
		Test		0 3					
		Replace			2 0				
		Repair			3 0				
	WIRING HARNESS, DOLLY MAIN	Inspect		0 1					
		Test		0 3					
		Replace			3.5				
		Repair			4 5				
	WIRING HARNESS, DOLLY TAIL-LIGHTS	Inspect		0 1					
		Test		0 3					
		Replace			1.0				
		Repair			2.0				
	CABLE ASSEMBLY, INTER- CONNECTION	Inspect		0 1					
		Test		0.3					
		Replace			0.2				
		Repair			0.5				
11	AXLE								
1100	AXLE ASSEMBLY	Inspect		0 5					
		Replace			8.0				
	AXLE & BRACKET ASSEMBLY	Inspect	0 5						
		Replace			6.0				
		Repair			7.0				
	BEARING, SPRING SEAT	Inspect		0 3					
		Replace		0 5					
12	BRAKES								
1202	SHOE ASSEMBLY	Inspect		0 5					
		Adjust		0 5					
		Replace		1 0					
1204	CYLINDER, MASTER	Inspect		0.2					
		Service		0.2					
		Replace		0.2					
	CYLINDER, WHEEL TUBE ASSEMBLY	Replace		1.5					
		Inspect		0.1					
		Test		0.1					
		Replace		0.1					
1208	CHAMBER, AIR	Inspect		0.1					
		Test		0.5					
		Replace		0.3					
	VALVE, RELAY	Inspect		0.1					
		Test		0.5					
		Replace		0 2					
		<b>D-3</b>							

## SECTION II.

MAINTENANCE ALLOCATION CHART FOR  
SEMITRAILER, VAN: ELECTRONIC, XM574, XM574E1, EX654, XM680  
XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824,  
XM844, XM845, XM847, XM848, XM850, XM912, XM913

(1) GROUP NUMBER	(2) COMPONENT ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT	(6) REMARKS
			C	O	F	H	D		
1208	HOSE, AIR	Inspect		0 1					
		Test		0 2					
		Replace		2 0					
	RESERVOIR, AIR	Inspect		0 1					
		Replace		0 2					
	COCK, DRAIN	Inspect		0 1					
		Test		0 1					
		Replace		0 1					
	COUPLING, AIR	Inspect 0 1	0 1						
		Replace		0 1					
13	WHEELS	Inspect		0 3					
1311	BEARING, HUB	Adjust		0 2				Wrench	
		Replace		0 2					
	SEAL, OIL	Replace		0 3				Replacer	
	BRAKE DRUM	Inspect		0 5					
		Replace		0 3					
1313	WHEEL	Replace	0 5						
	TIRE	Inspect		0 2					
		Replace		1 0					
		Repair		1 0					
		Repair		0 5					
15	TUBE								
	FRAME & TOWING								
	ATTACHMENTS								
1503	PINTLE	Inspect		0 1					
		Replace		0 2					
1504	CARRIER, SPARE	Inspect		0 1					
	TIRE/WHEEL	Replace		0 3					
		Repair		0 5					
1506	KINGPIN, AIR MOUNTED	Replace		0 5					
	PLATE, PINS, SLEEVES & BUSHINGS								
	SPRING, AIR	Inspect		0 2					
		Replace		1 0					
	VALVE, HEIGHT	Inspect		0 1					
	CONTROL	Adjust		0 2					
		Replace		0 3					
	ROD, BALL JOINT	Replace		0 3					
	SHOCK ABSORBER	Inspect		0 1					
		Replace		0 2					
	KINGPIN, RESILIENT '	Inspect		0 1					
	FIFTH WHEEL PLATE	Replace		1 0					
	ASSEMBLY								
1507	LANDING GEAR, SWING-UP	Inspect		0 2					
		Replace		0 5					
	LANDING GEAR, RIGID	Inspect		0 2					
		Replace		0 5					
	BEARING	Inspect			0 3				
		Replace			0 5				
	GEAR, BEVEL	Inspect			0 5				
		Replace			1 0				
	GEAR CLUSTER	Inspect			0 3				
		Replace			0 5				
	LEG ASSEMBLY, UPPER	Inspect			0 3				
		Replace			2 5				
		<b>D4</b>							

## SECTION II.

MAINTENANCE ALLOCATION CHART FOR  
SEMITRAILER, VAN: ELECTRONIC, XM574, XM574E1, EX654, XM680  
XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824,  
XM844, XM845, XM847, XM848, XM850, XM912, XM913

(1) GROUP NUMBER	(2) COMPONENT ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT	(6) REMARKS
			C	O	F	H	D		
1507	SCREW	Inspect			0 5				
		Replace			1 5				
	LEVELING JACK	Inspect			0 1				
		Replace			0 3				
16	SPRINGS & SHOCK ABSORBERS								
1601	AIR SUSPENSION SYSTEM	Inspect		0 2					
	AIR SPRING	Replace		1 0					
	VALVE, HEIGHT CONTROL	Inspect		0 1					
		Adjust		0.2					
		Replace		0 3					
	ROD, BALL JOINT	Replace		0 3					
	SHOCK ABSORBER	Inspect		0 1					
		Replace		0 3					
	TORSION BAR & BUSHINGS	Replace		0 5					
	TANDEM SUSPENSION SPRINGS	Inspect			0.1				
	TORQUE RODS	Replace			1.5				
		Inspect		0.1					
		Replace		0.2					
18	BODY								
1801	HINGE, DOOR	Inspect		0 1					
		Replace		0 2					
	CLUTCH, DOOR	Inspect		0 2					
		Replace		0 2					
	LOCK ASSEMBLY	Inspect		0 2					
		Replace		0 2					
		Replace		1 0					
1812	SEAL, DOOR								
	ACCESS OPENINGS	Inspect		0.1					
	HINGE, COVER, SHIELD	Replace		0 2					
	SCREEN	Inspect		0 1					
		Replace		0.2					
	SEAL	Inspect		0 1					
		Replace		0 2					
22	BODY, CHASSIS								
	ACCESSORY ITEMS								
2202	REFLECTOR	Replace		0 2					
	LEVEL	Inspect		0.1					
		Replace		0.2					
2210	DATA PLATE	Replace		0.2					
52	AIR CONDITIONER COMPONENTS								
5200	SHOCK MOUNT	Inspect		0 1					
		Replace		0 5					
5247	HEATING ELEMENT	Inspect		0 1					
		Test		0 1					
		Replace		0 2					
		D-5							



APPENDIX E

ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL  
SUPPORT MAINTENANCE REPAIR PARTS AND  
SPECIAL TOOLS LIST

Section I. INTRODUCTION

E-1. Scope.

This manual lists spares and repair parts, special tools, and other special support equipment required for the performance of organizational, direct support and general support maintenance of semitrailer, van: electronic, XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824, XM844, XM845, XM847, XM848, XM849, XM850, xM912, XM913.

E-2. 'General.

This repair parts and special tools list is divided into the following sections:

a. Section II. Repair Parts List. A list of spares and repair parts authorized for use in the performance of maintenance at the organizational, direct support and general support levels. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending numerical sequence, with the parts in each group listed in figure and item number sequence. Bulk materials are listed in NSN sequence.

b. Section III. Special Tools List. A list of special tools, TMDE, and other support equipment authorized for the performance of maintenance at the organizational, direct support and general support levels.

c. Section IV. National Stock Number and Part Number Index.

1. A list in national item identification (NIIN) sequence, as shown in the third column from the left of all national stock numbers (NSN) appearing in the listing:

Stock Number	Figure No.	Item No.
5310-00-001-1255	55	9
4730-00-011-3176	61	3
4730-00-011-6452	62	1



Stock Number	Figure No.	Item No.
5360-00-025-8210	42	4
5340-00-052-2242	45	54
5305-01-004-9121	5	30
2540-01-025-4800	40	24
2510-01-055-9653	38	15

2. A list in alphanumeric sequence of all parts appearing in the listings. The order of precedence is alpha letters, then numbers from left to right, regardless of the number of columns involved, as shown below:

Part Number	FSCM	Fig. No.	Item No.
AN365D1024	88044	53	3
AN910-4D	88044	60	9
CPR102321-1	19207	26	2
MS15001-1	96906	32	4
11681672	19207	36	22
120460	21450	61	7
1227D914X	78500	23	12
28716	70334	61	18
42C15120-205	81348	32	13
426141	21450	65	17

3. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance.

#### E-3. Explanation of Columns.

a. Illustration. This column is divided as follows:

1. Figure Number. Indicates the figure number of the illustration on which the item is shown.
2. Item Number. The number used to identify each item called out in the illustration.

b. Source, Maintenance and Recoverability Codes (SMR).

1. Source Code. Source codes are assigned to support items to indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows:

Code	Definition
PA.....	Item procured and stocked for anticipated or known usage.
PB	Item procured and stocked for insurance purpose because essentiality dictates that a minimum quantity be available in the supply systems.
PC	Item procured and stocked and which otherwise would be coded PA except that it is deteriorative in nature.
PD.....	Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfittings Not subject to automatic replenishment.
PE.....	Support equipment procured and stocked for initial issue or outfitting to specified maintenance repair activities.
PF.....	Support equipment which will not be stocked but which will be centrally procured on demand.
PG	Item procured and stocked to provide for sustained support for the life of the equipment It is applied to an item peculiar to the equipment which, because of probable discontinuance or shutdown of production facilities, would prove uneconomical to reproduce at a later time.
KD	An item of depot overhaul/repair kit and not purchased separately Depot kit defined as a kit that provides items required at the time of overhaul or repair.
KF.....	An item of a maintenance kit and not purchased separately. Maintenance kit defined as a kit that provides an item that can be replaced at organizational or intermediate levels of maintenance.
KB.....	Item included in both a depot overhaul/repair kit and a maintenance kit.
MO.....	Item to be manufactured or fabricated at organizational level.
MF.....	Item to be manufactured or fabricated at the direct support maintenance level.
MH.....	Item to be manufactured or fabricated at the general support maintenance level.
MD.....	Item to be manufactured or fabricated at the depot maintenance level.
AO.....	Item to be assembled at organizational level.
AF.....	Item to be assembled at direct support maintenance level.
AH.....	Item to be assembled at general support maintenance level.
AD.....	Item to be assembled at depot maintenance level.
XA	Item is not procured or stocked because the requirements for the item will result in replacement of next higher assembly.

Code	Definition
XB.....	Item is not procured or stocked If not available through salvage, requisition.
XC	Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number.
XD	A support item that is not stocked When required, item will be procured through normal supply channels.

**NOTE**

Cannibalization or salvage may be used as a source of supply for any item coded above, except those coded XA and aircraft support items as restricted by AR 70042.

2. Maintenance Code. Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code format as follows:

a. The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance:

Code	Application/Explanation
C.....	Crew or operator maintenance performed within organizational maintenance.
O.....	Support item is removed, replaced, used at the organizational level.
F.....	Support item is removed, replaced, used at direct support level.
H.....	Support item is removed, replaced, used at general support level.
D.....	Support items are removed, replaced, used at depot, mobile depot, or specialized repair activity only.

b. The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the following maintenance codes:

Code	Application/Explanation
O.....	The lowest maintenance level capable of complete repair of the support item is the organizational level.
F .....	The lowest maintenance level capable of complete repair of /the support item is the direct support level.
H.....	The lowest maintenance level capable of complete repair of the support item is the general support level.
D.....	The lowest maintenance level capable of complete repair of the support item is the depot level, performed by depot, mobile depot, or specialized repair activity.
L.....	Repair restricted to designated specialized repair activity.
Z .....	Nonrepairable No repair is authorized.
B.....	No repair is authorized The item may be reconditioned by adjusting, lubricating, etc at the user level No parts or special tools are procured for the maintenance of this item.
3. Recoverability Code. Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:	
Code	Definition
Z .....	Nonrepairable item When unserviceable, condemn and dispose at the level indicated in position 3.
O.....	Reparable item When uneconomically repairable, condemn and dispose at organizational level.
F .....	Reparable item When uneconomically repairable, condemn and dispose at the direct support level.
H.....	Reparable item When uneconomically repairable, condemn and dispose at the general support level.
D .....	Reparable item When beyond lower level repair capability, return to depot Condemnation and disposal not authorized below depot level.
L.....	Reparable item Repair, condemnation and disposal not authorized below depot/specialized repair activity level.
A .....	Item requires special handling or condemnation procedures because of specific reason (i.e., precious metal content, high dollar value, critical material or hazardous material). Refer to appropriate manuals/directives for specific instructions.

c National Stock Number Indicates the National stock number assigned to the item which will be used for requisitioning purposes.

d. Part Number. Indicates the primary number used by the manufacturer which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

#### NOTE

When a stock numbered item is requisitioned, the item received may have a different part number than the part being replaced

e. Federal Supply Code for Manufacturers (FSCM) . The FSCM is a five digit numeric code listed in SB 70842 which is used to identify the manufacturer, distributor, or Government agency, etc.

f. Description Indicates the Federal item name and a description to identify the item Items that are included in kits and sets are listed below the name of the kit or set with the quantity of each item in the kit or set indicated in the quantity incorporated in unit column.

g. Unit of Measure (U/M). Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function This measure is expressed by a two character alphabetical abbreviation (e.g., EA, IN, FT, etc.) When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.

h. Quantity Incorporated in Unit. Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that no specific quantity is applicable (e.g., shims, spacers, etc.).

#### E-4. Special Information.

a. Usable on codes are shown in the description column Uncoded items are applicable to all models Identification of the usable on codes used in this publication are:

Code	Used On	Code	Used On
A09	XM680	C17	XM848
A10	XM654	C18	XM849
All	XM738	C19	XM850
A12	XM574	C58	XM824
A13	XM574E1	C59	XM823
A14	XM680E1	C61	XM912
C13	XM822	C62	XM913
C14	XM844	140	XM739
C15	XM845	26F	XM739E1
C16	XM847		

b. Detailed manufacture instructions for items source coded "M" are found in the maintenance portion of this manual. Bulk materials required to manufacture items are listed in the Bulk Material group of this manual.

c. Detailed assembly instructions for items source coded "A" are found in the maintenance portion of this manual. Assembly components are listed immediately following the item to be assembled.

#### E-5. How to Locate Repair Parts.

##### a. When National Stock Number of Part Number is Unknown.

1. First. Using the table of contents, determine the functional group or functional subgroup within which the item belongs. This is necessary since illustrations are prepared for functional groups or functional subgroups and listings are divided into the same groups.

2. Second. Find the illustration covering the functional group or functional subgroup to which the item belongs.

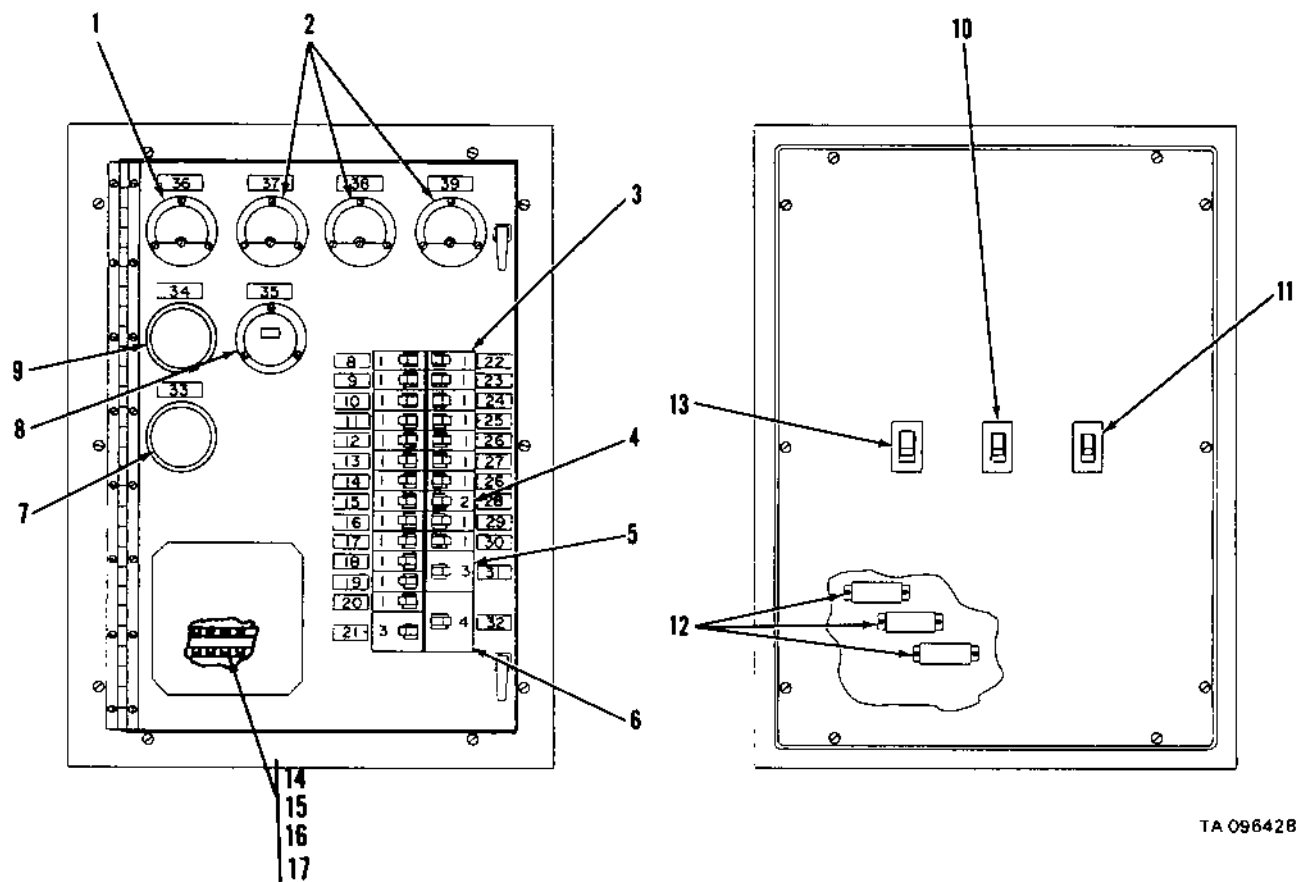
3. Third. Identify the item on the illustration and note the illustration figure and item number of the item.

4. Fourth. Using the Repair Parts Listing, find the figure and item number noted on the illustration.

##### b. When National Stock Number or Part Number is Known.

1. First. Using the Index of National Stock Numbers and Part Numbers, find the pertinent National Stock Number or part number. This index is in NIIN sequence, followed by a list of part numbers in ascending alphanumeric sequence, cross-referenced to the illustration figure number and item number.

2. Second. After finding the figure and item number, locate the figure and item number in the Repair Parts List.



TA 096428

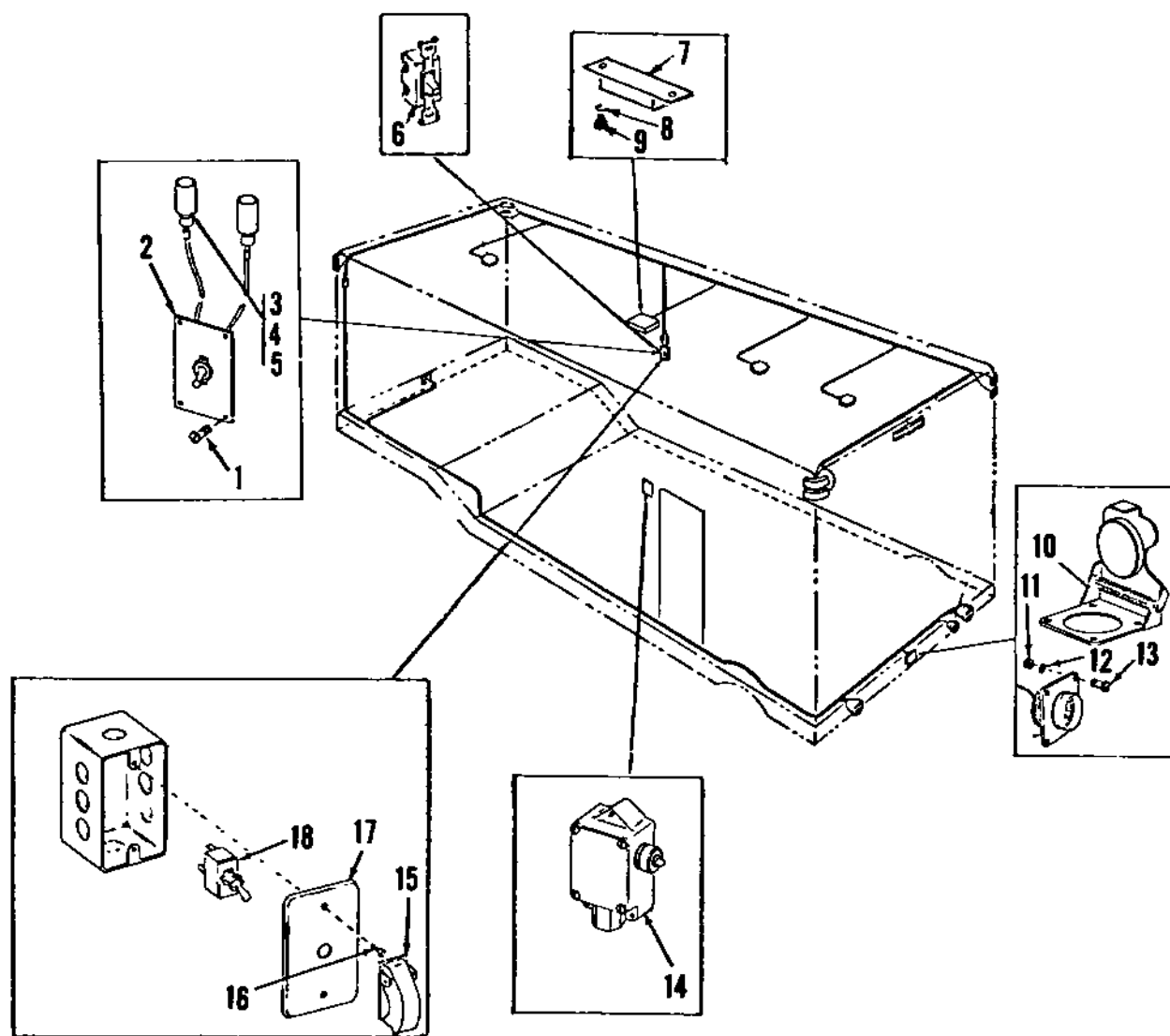
Figure 1. Electrical distribution panel, XM822.

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 06 ELECTRICAL SYSTEM		
						GROUP 0607 ELECTRICAL DISTRIBUTION		
1	1	PAOZZ	6625-01-029-8364	55026	55-AC-V-0-250	VOLTMETER..... C13	EA	1
1	2	PADZZ	6625-01-030-2089	55026	55-0-200AMPAC	AMMETER..... C13	EA	3
1	3	XDOZZ		30086	EQ-P9412	CIRCUIT BREAKER ..... C13	EA	22
1	4	PAOZZ	5925-00-850-6432	30086	EQ-P9413	BREAKER CIRCUIT SINGLE POLE, 30 AMP ..... C13	EA	1
1	5	PAOZZ	5925-00-400-1561	30086	Q230	CIRCUIT BREAKER DOUBLE POLE, 30 AMP ..... C13	EA	2
1	6	PAOZZ	5925-01-030-6240	30086	EQ-P9434	CIRCUIT, BREAKER THREE POLE 40 AMP ..... C13	EA	1
1	7	PAOZZ	6685-00-845-2190	61349	138000	GAGE,VACUUM, DIAL IN D-30 IN HG, CLARK STYLEC13	EA	1
1	8	XDOFF		31356	31-FX-SK-50(58-62)	NETER,FREQUENCV 58-62 CY.120V ..... C13	EA	1
1	9	PAOZZ	6685-00-924-2288	61349	11848	GAGE-.PRESSURE,DIAL 0-60 PSI, CLARK STYLE .. C13	EA	1
1	10	PAOZZ	5925-00-019-0103	30086	ET-2718	CIRCUT.BREAKER THREE POLE, 100 AMP ..... C13	EA	1
1	11	PAOZZ	5925-01-030-2959	30086	ET-2714	CIRCUIT,BREAKER THREE POLE 40 AMP ..... C13	EA	1
1	12	PAOZZ	5305-00-958-4357	03499	JCW-O	TRANSFORMER, CURRENT 200 TO 5 RATIO ..... C13	EA	3
1	13	PAOZZ	5925-00-030-2960	30086	ET-4746	CIRCUIT, BREAKER THREE POLE, 200 AMP ..... C13	EA	1
1	14	PAOZZ	5305-00-958-4357	96906	MS35207-242	SCREW, MACHINE ..... C13	EA	18
1	15	PAOZZ	5310-00-045-3299	96906	MS35338-42	WASHER, LOCK ..... C13	EA	18
1	16	PAOZZ	5175-00-080-4554	89020	MD524	TERMINAL BOARD..... C13	EA	21
1	17	PAOZZ	5940-00-244-9749	89020	530	END, TERMINAL BOARD..... C13	EA	1





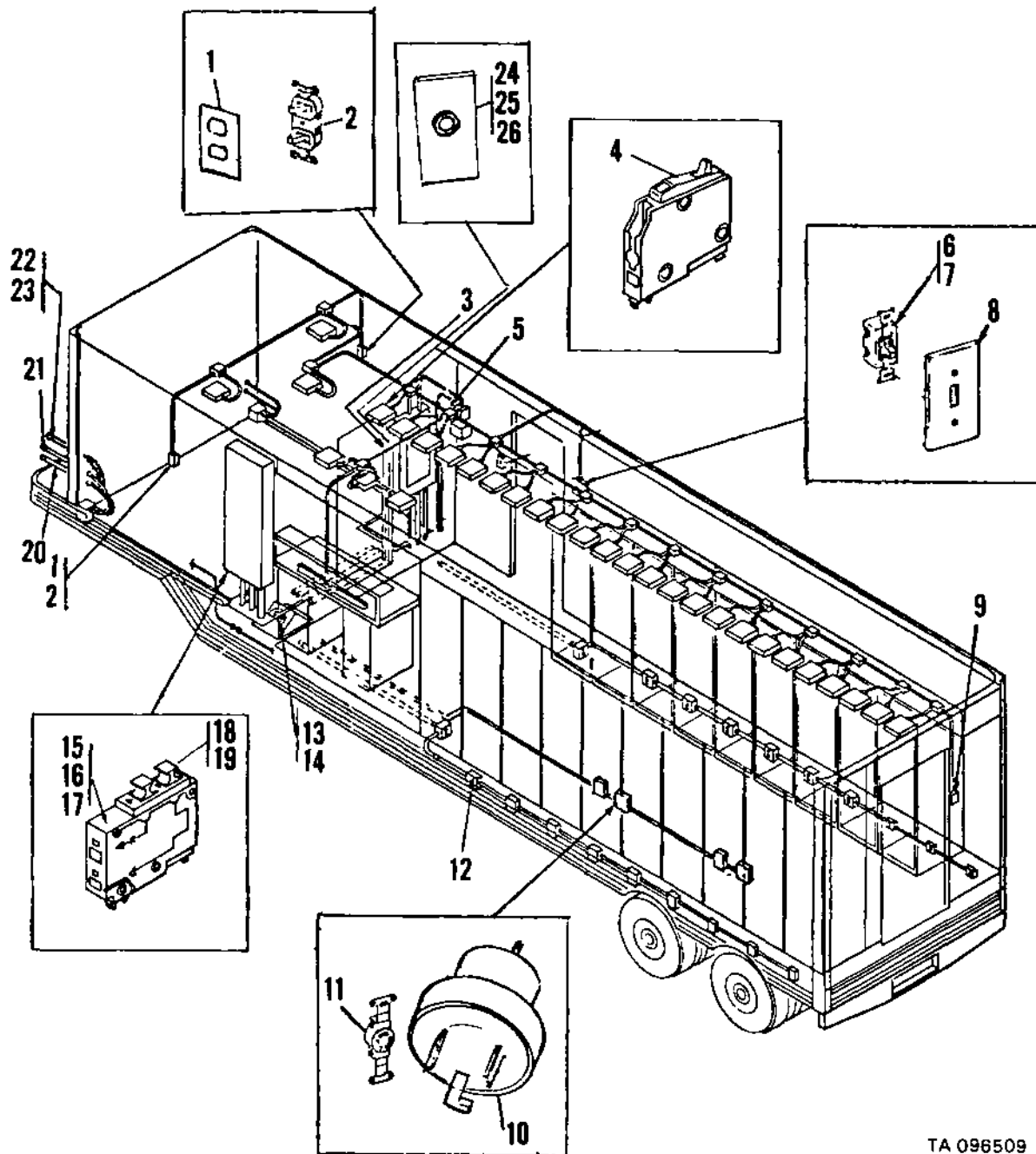
TA 096578

Figure 2. Intervehicular cable receptacle cover and switches, 24-volt.

## SECTION II

TM 9-2330-271-14&amp;P

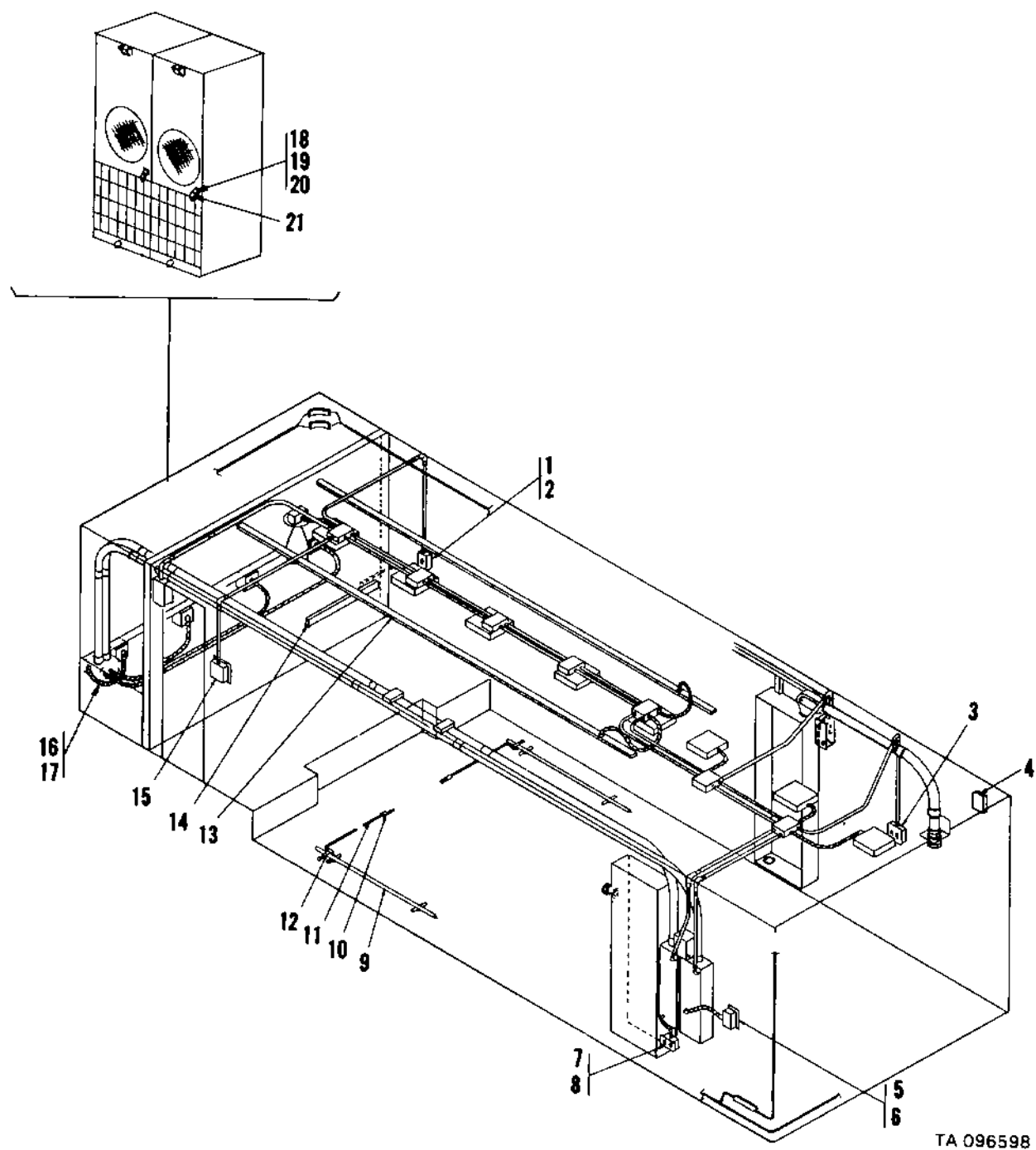
(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 0600 MISCELLANEOUS ELECTRICAL ITEMS		
2	1	PAOZZ	5305-00-432-4166	96906	M51861-27	SCREW,TAPPING.THREA.....A10, A11,A12,A13,140,26F	EA	4
2	1	PAOZZ	5320-00-129-9706	81349	M24243-1-F402	RIVET,BLIND..... C13	EA	4
2	2	XDOZZ	5930-00-921-7001	19207	8747247	SWITCH ASSEMBLY, A10, A11, A12, A13, C13, 140, 26F	EA	1
2	3	PAOZZ	5935-00-572-9180	19207	8338566	• SHELL, ELECTRICAL CO A10, A11, A12,A13, C13,140, 26F	EA	1
2	4	PIOZZ	5310-00-833-8567	19207	8330567	• WASHER,SLOTTED A10, A11, A12, A13,C13, 140, 26F	EA	1
2	5	PAOZZ	5999-00-057-2929	96906	MS27141-2	• CONTACT,ELECTRICALA10, A11, A12, A13, C13,140, 26F	EA	1
2	6	PAOZZ	5930-00-655-1513	40670	34861033	SWITCH, TOGGLE..... A09,A14	EA	3
2	7	PAOZZ	5950-00-883-6443	96256	27F23	TRANSFORER,POWER..... A09,A14	EA	1
2	8	PAOZZ	5310-00-934-9757	96906	MS35649-82	NUT,PLAIN,HEXAEON..... A09, A14	EA	4
2	9	PAOZZ	53100-0045-3299	96906	MS35331-42	WASHER,LOCK ..... A09, A14	EA	4
2	10	PAOZZ	5935-00-113-1428	19207	7731420	COVER,ELECTRICAL CO.....	EA	2
2	11	PAOZZ	5310-00-761-6882	96906	MS51967-2	NUT,PLAIN, HEXAGON..... A09,A10,A11,A12,A13,A14, ..... C13,C58,C59,140 26F	EA	8
2	11	PAOZZ	5310-00-761-6882	96906	MS51961-2	NUT,PLAIN, HEXAGON ... A09,C14,C15,C16.C17,C18,C19	EA	12
2	11	PAOZZ	5310-00-761-6812	96906	MS51967-2	NUT,PLAIN, HEXAGON ..... C61, C62	EA	12
2	12	PAOZZ	5310-00-550-1130	96906	MS35333-40	WASHER,LOCK ..... A09,A10,A11,A12,A13,A14.C13,C58 ..... C59,140,26F	EA	8
2	12	PAOZZ	5310-00-550-1130	96906	MS35333-40	WASHER, LOCK ..... C14,C15,C16,C17,C18,C19,C61,C62	EA	12
2	13	PAOZZ	5305-00-980-9265	96906	MS35206-286	SCREW,MACHINEA10,A11,A12,A13,C13,C58,C59,140,26F	EA	8
2	13	PAOZZ	5305-00-988-9265	96906	MS35206-286	SCREW,MACHINE ... C14,C15,C16,C17,C18,C19,C61,C62	EA	12
2	13	PAOZZ	5305-00-988-1170	96906	MS35206-284	SCREW,MACHINE ..... A09,A14	EA	8
2	14	PAOZZ	5930-00-868-4221	91929	BZ-7RQT04	SWICH,SENSITIVE ..... A09,A14	EA	6
2	11	PAOZZ	1005-00-317-2453	19207	5343622	GUARD,SWITCH..... A09,A14	EA	3
2	16	PAOZZ	5305-00-984-6195	96906	MS35206-247	SCREW,MACHINE ..... A09,A14	EA	6
2	17	PAOZZ	5975-01-111-0117	40670	3486997	PLATE,WALL,ELECTRIC ..... A09,A14	EA	3
2	18	PAOZZ	5930-00-655-1514	15605	8803-K6	SWITCH, TOGGLE ..... A09,A14	EA	3



TA 096509

Figure 3. Switches, receptacles, circuit breakers, 110/220-volt, XM654.

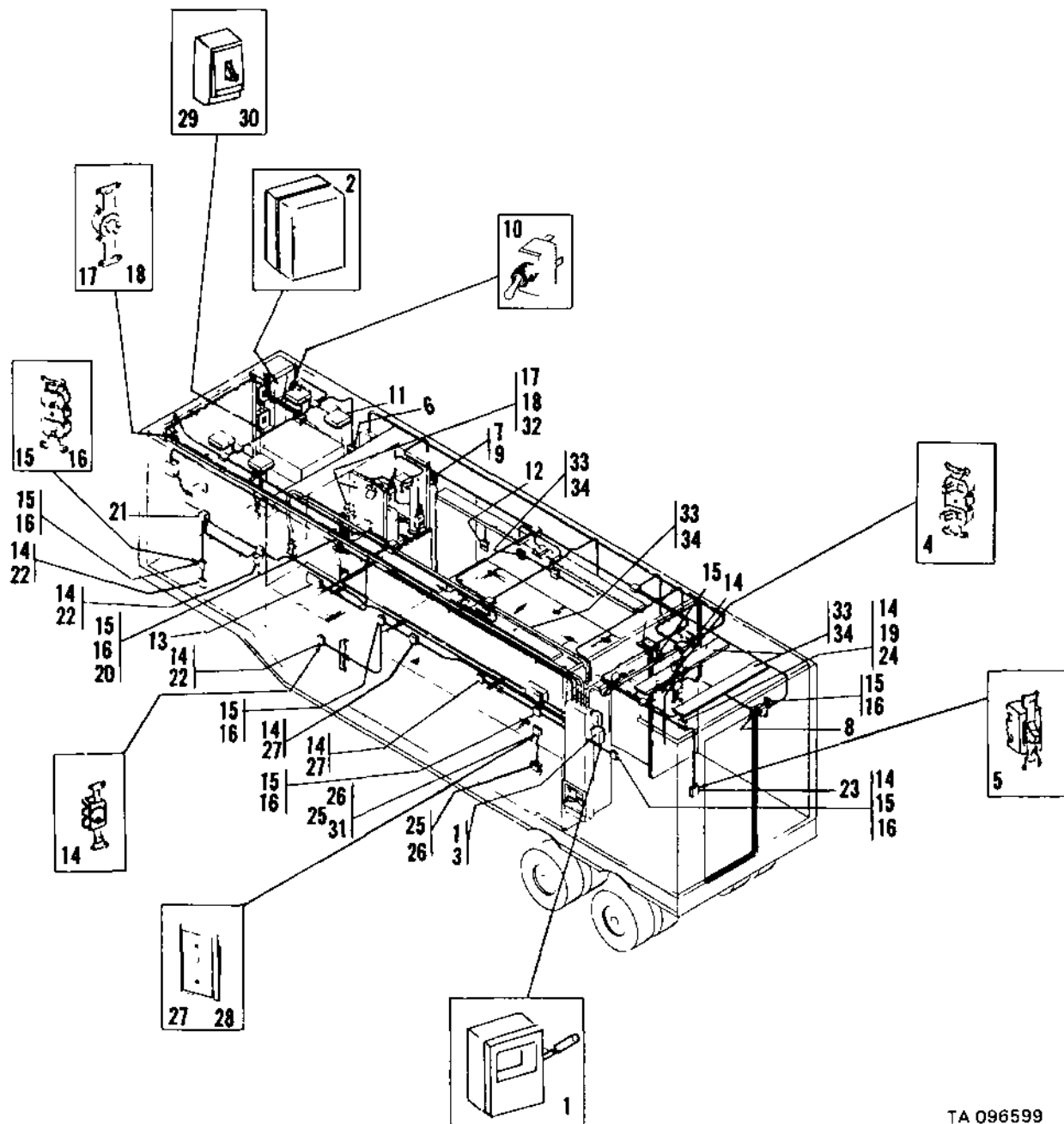
(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
3	1	XDOZZ	5975-00-538-6260	11419	D-8	PLATE, WALL, ELECTRIC ..... A10	EA	2
3	2	PAOZZ	5935-00-918-4176	40670	3234977	RECEPTACLE ..... A10	EA	2
3	3	PBOZZ	5975-00-280-3510	74545	92071	PLATE, WALL, ELECTRIC ..... A10	EA	1
3	4	XDOZZ		40670	3234978	BREAKER 20 AMPS ..... A10	EA	30
3	5	PAOZZ	5935-00-853-1531	96906	MS3100R20-7P	CONNECTOR, RECEPTAC ..... A10	EA	2
3	6	XDOZZ		40670	3234980	SWITCH, TOGGLE ..... A10	EA	2
3	7	PAOZZ		40670	3234779	SWITCH, TOGGLE ..... A10	EA	1
3	8	XDOZF	4320-00-273-0853	40607	32341013	PLATE WALL ELECTRIC ..... A10	EA	1
3	9	PBOZZ	5975-01-098-0277	40670	32341012	PLATE, WALL, ELECTRIC ..... A10	EA	1
3	10	PAOZZ		74545	7311	CONNECTOR, PLUG, ELEC MALE, TWISTLOCK ..... A10	EA	42
3	11	XDOZZ		40670	3234985	RECEPTACLE TWISTLOCK ..... A10	EA	43
3	12	XBOZZ		40670	32341041	COVER, ELECTRICAL, CO ..... A10	EA	23
3	13	PAOZZ	5935-01-111-7615	40670	3234991-2	CONNECTOR, RECEPTAC ..... A10	EA	1
3	14	PAOZZ	5935-01-112-8716	40670	3234991-1	CONNECTOR, PLUG, ELEC ..... A10	EA	1
3	15	PAOZZ		40670	3234976	CIRCUIT BREAKER BOX 400 AMPS ..... A10	EA	1
3	16	XDOZZ		40670	3234974	CIRCUIT BREAKER 200 AMPS ..... A10	EA	1
3	17	PAOZZ	5925-01-124-8483	40670	3234975	CIRCUIT, BREAKER 150 AMPS ..... A10	EA	2
3	18	PAOZZ	5925-01-120-9104	40670	32341054	CIRCUIT BREAKER 50 AMPS ..... A10	EA	2
3	19	PAOZZ	5925-01-030-2960	30086	ET4746	CIRCUIT BREAKER 200 AMPS ..... A10	EA	1
3	20	PAOZZ	5935-00-827-5658	96906	MS3106A22-22SC	CONNECTOR, PLUG, ELEC ..... A10	EA	2
3	21	PAOZZ	5935-00-682-0569	96906	MS3106R20-7S	CONNECTOR, PLUG, ELEC ..... A10	EA	2
3	22	PAOZZ	5935-00-839-9681	96906	MS3106R32-17S	CONNECTOR, PLUG, ELEC ..... A10	EA	2
3	23	PAOZZ	5935-00-834-4904	96906	MS3106R18-1P	CONNECTOR, PLUG, ELEC ..... A10	EA	2
3	24	PBOZZ		81091	1347	MOUNTING, STRAP, CONN ..... A10	EA	1
3	25	PBOZZ	5975-01-098-0278	40670	32341015	PLATE, WALL, ELECTRIC ..... A10	EA	1
3	26	PAOZZ	6210-00-863-0686	40670	34861040	LIGHT, INDICATOR ..... A10	EA	1



TA 096598

Figure 4. Switches, receptacles, 110/220-volt, XM680, XM680E1.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
4	1	XDOZZ	5975-00-682-0561	40670	3234980	SWITCH,TOGGLE..... A09	EA	1
4	2	PBOZZ		74545	97071	PLATE,WALL,ELECTRIC ..... A09	EA	1
4	3	XDOZZ		40670	34861046	PLATE,COVER..... A09,A14	EA	2
4	4	PBOZZ		73740	3790	KEY,WOODRUFF ..... A14	EA	2
4	5	PAOZZ		40670	34611049	CONNECTOR,RECEPTAC..... A09	EA	1
4	6	PBOZZ		11419	S72	PLATE,WALL,ELCTRIC ..... A09	EA	1
4	7	PAOZZ		40670	34861032	CONNECTOR,RECEPTAC..... A09, A14	EA	1
4	8	XDOZZ		75582	4929	PLATE,WALL,ELECTRIC RECEPTACLE ..... A09, A14	EA	1
4	9	PAOZZ		40670	3486029	ROD,GROUND..... A09, A14	EA	2
4	10	XDOZZ		19207	7612227	TERNINAL,LUG..... A09, A14	EA	2
4	11	PAOZZ		81349	MIL-W-3861	WIRE,ELECTRICAL ..... A09, A14	EA	2
4	12	PAOZZ		90190	7560	CLAMP,LOOP ..... A09, A14	EA	2
4	13	PAOZZ		40670	34861027	PLUG,MOLD..... A09, A14	EA	7
4	14	PAOZZ		40670	34861026	PLUG,MOLD..... A09, A14	EA	1
4	15	XDOZZ		40670	3234979	SWITCH,TOGGLE..... A09, A14	EA	4
4	16	PDOZZ	5935-00-918-4205	40670	34861001	RECEPTACLE POWER ENTRY ..... A09	EA	2
4	17	PAOZZ	5305-00-885-0690	40670	31861003	RECEPTACLE POWER ENTRY ..... A09	EA	2
4	18	PAOZZ		96906	MS24629-36	SCREW,TAPPING.THREA ..... A09, A14	EA	16
4	19	PAOZZ		96906	MS35338-42	WASHER,LOCK ..... A09, A14	EA	16
4	20	PAOZZ		96906	MS310022-22S	CONNECTOR,RECEPTAC AIR CONDITIONER A09,A14	EA	4
4	21	XDOZZ		96906	MS25043-22D	COVER,ELECTRICL CO ..... A09, A14	EA	4



TA 096599

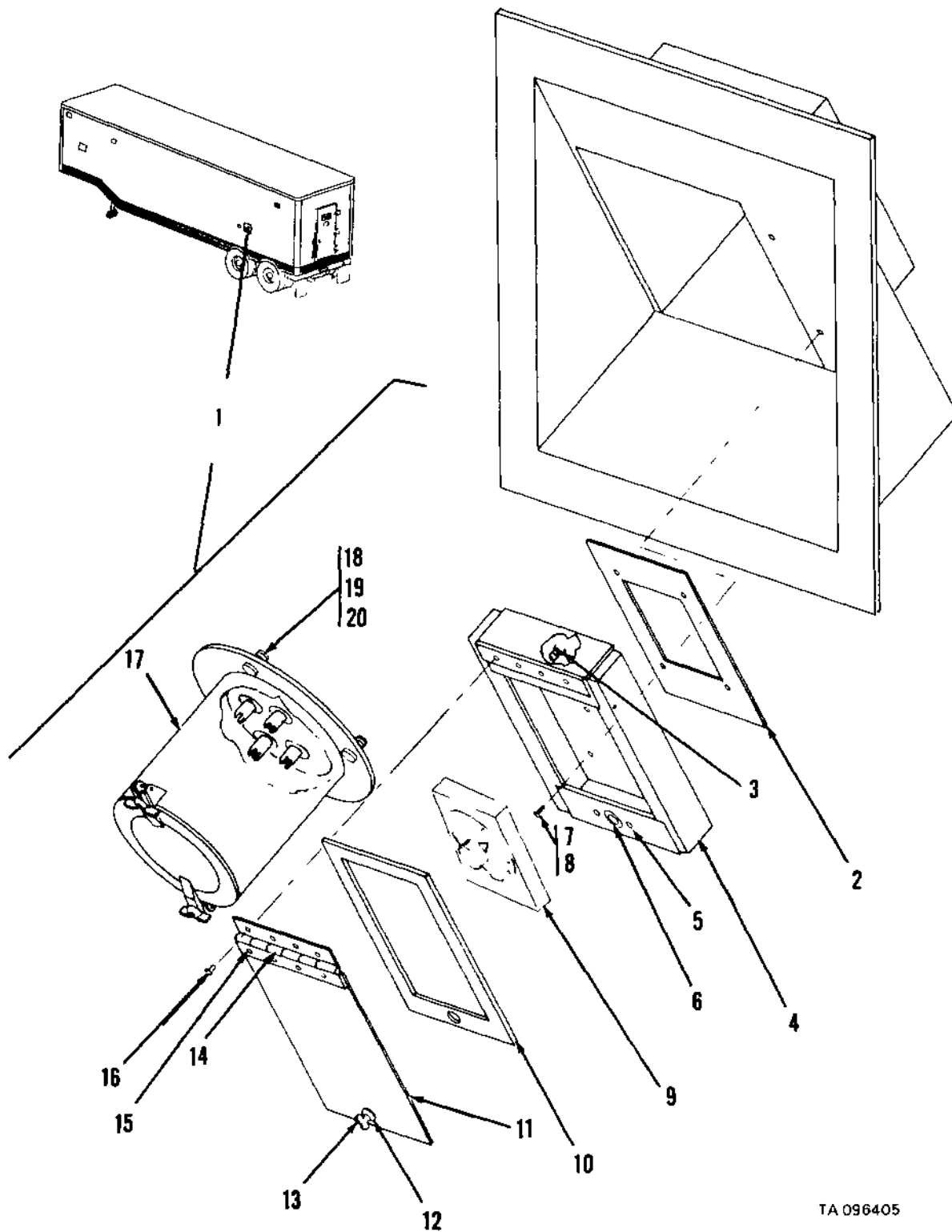
Figure 5. Switches, receptacles, circuit breakers, 110/220-volt, XM822.

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
5	1	XDOZZ		19207	11683261	CONTACTOR ..... C13	EA	1
5	2	PAOZZ	6110-00-161-0404	19207	11683251	CONTACTOR MAGNETIC 208-220 VOLTS 45 AMPS C13	EA	2
5	3	PAOZZ	5930-00-455-2748	19207	11683244	SWITCH, TOGGLE ..... C13	EA	1
5	4	PAOZZ	5930-00-455-3418	19207	11683245	SWITCH 2 AND 3 WAY 15 AMP 120 VOLT DUPLEX QUIET C13	EA	2
5	5	XDOZZ		19207	11683246	LIGHT SWITCH ..... C13	EA	4
5	6	XDOZZ		19207	11683247	LIGHT SWITCH ..... C13	EA	7
5	7	PAOZZ	5930-00-868-4221	81319	M8805-1-024	SWITCH, SENSITIVE ..... C13	EA	3
5	8	PBOZZ	5975-00-280-3510	11419	D1	PLATE, WALL, ELECTRIC ..... C13	EA	3
5	9	XBOZZ		40670	74-0315	ACTUATOR ..... C13	EA	1
5	10	PAOZZ	5930-00-636-1285	19207	11683260	SWITCH, TOGGLE ELECTRICAL TOGGLE, SINGLE POLE, 2 CIRCUIT, 19 AMP, 125 VAC ..... C13	EA	2
5	11	PAOZZ	5930-00-615-6731	96906	MS25224-1	GUARD, SWITCH ..... C13	EA	2
5	12	PBOZZ	5975-00-682-0560	11419	S2	PLATE, WALL, ELECTRIC ..... C13	EA	3
5	13	PBOZZ	5975-01-018-9759	11419	S5	PLATE, WALL, ELECTRIC ..... C13	EA	1
5	14	PAOZZ	5935-00-112-4416	19207	11683242	RECEPTACLE SINGLE FLUSH, SIDE WIRED 20 AMP 125 VOLT ..... C13	EA	11
5	15	PAOZZ	5935-01-030-5093	81348	WC596/40-1	CONNECTOR, RECEPTACL ..... C13	EA	8
5	16	PAOZZ	5935-01-030-5093	81348	WC596/40-1	CONNECTOR, RECEPTACL DUPLEX FLUSH 2 ..... C13	EA	7
5	17	PAOZZ	5935-00-131-9685	19207	11683241	GROUNDING SCREWS 20 AMP ..... C13	EA	2
5	18	PAOZZ	5935-00-131-9685	19207	11683241	CONNECTOR, RECEPTACL SINGLE, TWIST LOCK. C13	EA	1
5	19	PAOZZ	5935-01-013-3757	81349	WC596/46-1	RECEPTACLE SINGLE FLUSH 15 AMP 125 VOLT 3 WIRE C13	EA	1
5	20	XDOZZ		49367	N-FCR28	CONNECTOR, RECEPTACL SINGLE, TWIST LOCK. C13	EA	1
5	21	XDOZZ		11419	S78	CONNECTOR, RECEPTACLE ..... C13	EA	1
5	22	PBOZZ	5975-00-878-4865	11419	S7	PLATE, WALL, ELEC ..... C13	EA	4
5	23	PBOZZ	5975-00-965-8334	11419	S82	PLATE, WALL, ELECTRIC ..... C13	EA	7
5	24	PBOZZ	5975-01-020-5017	11419	S72	PLATE, WALL, ELECTRIC ..... C13	EA	4
5	25	XBOZZ		19207	11683211	BOX, JUNCTION ..... C13	EA	1
5	26	PBOZZ	5975-00-073-4341	21873	3760	PLATE, WALL, ELECTRIC ..... C13	EA	1
5	27	PAOZZ	5935-00-455-2634	19207	11646058	PLATE JACK AND BODY ..... C13	EA	2
5	28	PAOZZ	5935-01-062-5625	19207	11646100	PLUG, TELEPHONE ..... C13	EA	2
5	29	XDOZZ		19207	11683239	BREAKER, CIRCUIT ..... C13	EA	2
5	30	PAOZZ	5925-00-080-2163	81348	WC375/03-006	CIRCUIT BREAKER CIRCUIT 40 AMP 3 POLE ..... C13	EA	1
5	31	PAOZZ		56365	Q0115	CIRCUIT BREAKER ..... C17	EA	1
5	32	PAOZZ	5920-00-284-6787	81349	FO2A250V5A	FUSE, CARTRIDGE ..... C13	EA	1
5	33	PAOZZ	5920-00-280-8342	71400	AGC1A	FUSE, CARTRIDGE ..... C13	EA	6
5	34	PAOZZ	5920-01-036-5952	71400	HKP	FUSEHOLDER, EXTRACTO ..... C13	EA	6
5	34	PAOZZ	5920-00-892-9311	81349	FHN26G1	FUSEHOLDER, EXTRACTO ..... C13	EA	7

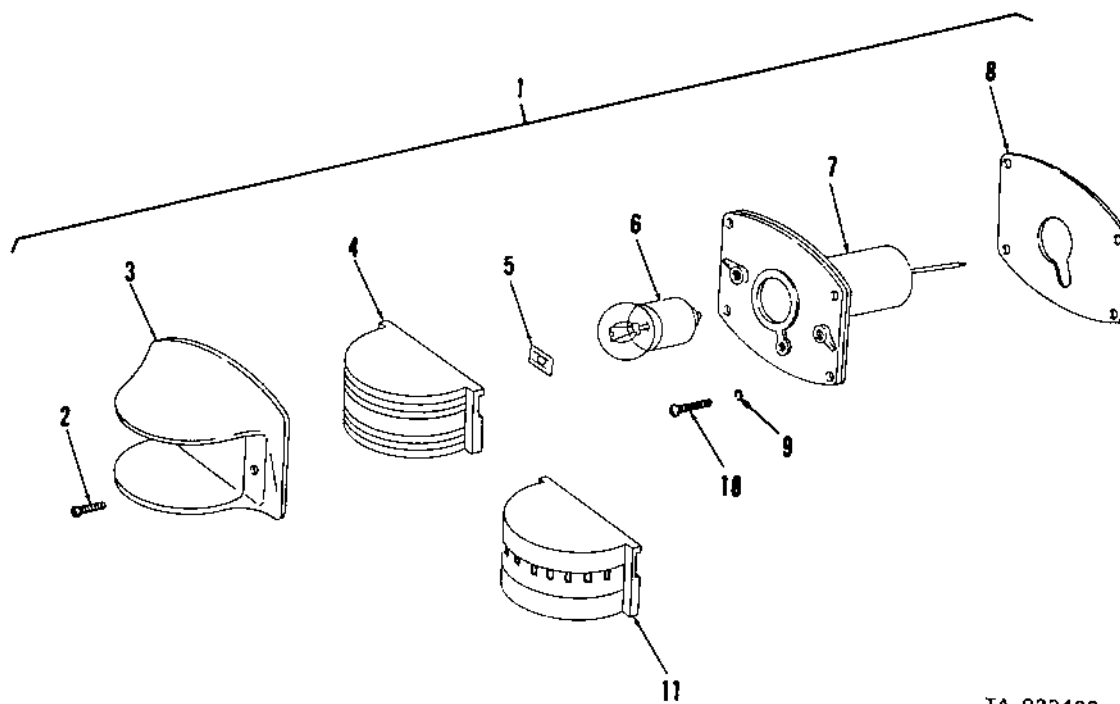




TA 096405

Figure 6. Input power receptacle and timer, XM822.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
6	1	XDOZZ	5330-00-001-7859	19207	11683017	ENTRY PANEL AY .....	C13	EA 1
6	2	PAOZZ		19207	11683137	• GASKET .....	C13	EA 1
6	3	XDOZZ		01364	6OF6100	LANP, INCANDESCENT .....	C13	EA 1
6	4	XDOZZ		19207	1163133	• TIMER HOUSING ASSY .....	C13	EA 1
6	5	PAOZZ		88044	AN426A4-8	• RIVETISOID .....	C13	EA 2
6	6	PAOZZ	5320-00-638-8619	19207	7327426-2	• RECEPTAC .....	C13	EA 1
6	7	PAOZZ	5310-00-807-1467	96906	MS21042-3	• NUT, SELF-LOCKING, EX .....	C13	EA 4
6	8	PAOZZ	5305-00-984-7342	96906	MS3191-214	• SCREW, MACHINE .....	C13	EA 4
6	9	XDOZZ	6645-00-001-1256	19207	11683237	• TIMER, INTERVAL INTERVAL 60 MINUTE 120 VOLT/60 CYCLE .....	C13	EA 1
6	10	PAOZZ	5330-00-025-7134	19207	11683136	• GASKET TIMER HOUSING FRONT .....	C13	EA 1
6	11	XBOZZ	5325-00-826-3620	19207	11683142	• COVER .....	C13	EA 1
6	12	PAOZZ		19207	10907044-5	• EYELET, TURNLOCK FAS .....	C13	EA 1
6	13	PAOZZ		71216	4002-15W	• STUD ASSEMBLY, TURNL .....	C13	EA 1
6	14	XDOZZ		40670	11683143	• HINGE, BUTT .....	C13	EA 1
6	15	PGOZZ		96906	MS2060014-4	• RIVET, BLIND .....	C13	EA 4
6	16	PAOZZ	5320-00-957-1428	96906	MS20605AD4W5	• RIVET, BLIND .....	C13	EA 4
6	17	XDOZZ	5310-00-880-7744	19207	11683240	RECEPTACLE .....	C13	EA 1
6	18	PAOZZ		96906	MS51967-5	• NUTT, PLAIN, HEXAGON .....	C13	EA 4
6	19	PAOZZ		96906	MS35338-4	• WASHER, LOCK .....	C13	EA 4
6	20	PAOZZ		96906	MS9072-36	• SCREW, CAP, HEXAGON H .....	C13	EA 4
6	20	PAOZZ	5305-00-225-9081	96906	MS9072-36			



TA 032429

Figure 7. Marker clearance light.

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
7	1	PAOZZ	6220-00-577-3434	96906	MS35423-1	LIGHT, MARKER, CLEAR A AMBER SERVICE .... A09,A14	EA	2
7	1	PAOZZ	6220-00-577-3434	96906	MS35423-1	LIGHT, MARKER, CLEAR A..... A10,A11,A12,A13,C14 C15,C16,C17,C18,C19,C58,C59,C61,C62,140,26F	EA	4
7	1	PAOZZ	6220-00-726-1916	96906	MS35423-2	LIGHT, MARKER, CLEAR A RED SERVIC ..... A09,A14	EA	2
7	1	PAOZZ	6220-00-726-1916	96906	MS35423-2	LIGHT, MARKER, CLEAR A..... A10,A11,A12,A13,C14 C15,C16,C17,C18,C19,C58,C59,C61,C62,140,26F	EA	5
7	1	PAOZZ	6220-00-577-3435	96906	MS35424-1	LIGHT, MARKER, CLEAR A..... A10,A11,A12,A13,C14 C15,C16,C17,C18,C19,C58,C59,C61,C62,140,26F	EA	2
7	1	PAOZZ	6220-00-727-3288	96906	MS35424-2	LIGHT, MARKER, CLEAR A..... A10,A11,A12,A13,C14 C15,C16,C17,C18,C19,C58,C59,C61,C62,140,26F	EA	2
7	2	PAOZZ	5305-00-958-5246	96906	MS35190-289	• SCREW, MACHINE..... A09,A14	EA	16
7	2	PAOZZ	5305-00-958-5246	96906	MS35190-289	• SCREW, MACHINE..... C13,C14,C15,C61,C62	EA	18
7	2	PAOZZ	5305-00-958-5246	96906	MS35190-289	• SCREW, MACHINE .A10,A11,A12,A13,C16,C17,C18,C19 C58,C59,140,26F	EA	26
7	3	PAOZZ	6220-00-752-6516	1920	7526516	• DOOR..... A09,A14	EA	8
7	3	PAOZZ	6220-00-752-6516	19207	7526516	• DOOR..... C13,C14,C15,C61,C62	EA	9
7	3	PAOZZ	6220-00-752-6516	19207	7526516	• DOOR..... A10,A11,A12,A13,C16,C17,C18,C19,C58,C59, 140,26F	EA	13
7	4	PAOZZ	6220-00-752-7425	96906	MS35421-1	• LENS, LIGHT..... A09,A14	EA	2
7	4	PAOZZ	6220-00-752-7425	96906	MS35421-1	• LENS LIGHT..... A10,A11,A12,A13,C13,C14,C15,C16, C17,C18,C19,C58,C59,C61,C62,140,26F	EA	4
7	4	PAOZZ	6220-00-752-7426	96906	MS35421-2	• LENS, LIGHT..... A09,A14	EA	2
7	4	PAOZZ	6220-00-752-7426	96906	MS35421-2	• LENS LIGHT..... A10,A11,A12,A13,C13,C14,C15,C16, C17,C18,C19,C58,C59,C61,C62,140,26F	EA	5
7	5	PAOZZ	5310-00-596-8169	19207	7526796	• PUSH ON NUT..... A09,A14	EA	8
7	5	PAOZZ	5310-00-596-8169	19207	7526796	• NUT, PUSH ON..... C13,C14,C15,C61,C62	EA	9
7	5	PAOZZ	5310-00-596-8169	19207	7526796	• PUSH ON NUT..... A10,A11,A12,A13,C13,C14,C15,C16, C17,C18,C19,C58,C59,140,26F	EA	13
7	6	PAOZZ	6240-00-019-0877	96906	MS15570-1251	• LAMP, INCANDESCENT ..... A09,A14	EA	8
7	6	PAOZZ	6240-00-019-0877	96906	MS15570-1251	• LAMP, INCANDESCENT ..... C13,C14,C15,C61,C62	EA	9
7	6	PAOZZ	6240-00-019-0877	96906	MS15570-1251	• LAMP, INCANDESCENT ..... A10,A11,A12,A13,C13,C14, C15,C16, C17,C18,C19,C58,C59,C61,C62,140,26F	EA	13
7	7	PAOZZ	6250-00-371-4018	19207	7526515	• PLATE, MOUNTING, LAMP ..... A09,A14	EA	8
7	7	PAOZZ	6250-00-371-4018	19207	7526515	• PLATE, MOUNTING, LAMP ..... C13,C14,C15,C61,C62	EA	9
7	7	PAOZZ	6250-00-371-4018	19207	7526515	• PLATE, MOUNTING, LAMP ..A10,A11,A12,A13,C13,C14, C15,C16, C17,C18,C19,C58,C59,C61,C62,140,26F	EA	13
7	8	PAOZZ	5330-00-353-0959	19207	7526515	• FELT, MECHANICAL, PRE ..... A09,A14	EA	8
7	8	PAOZZ	5330-00-353-0959	19207	7526515	• FELT, PREFORMED ..... C13,C14,C15,C61,C62	EA	9
7	8	PAOZZ	5330-00-353-0959	19207	7526515	• FELT MECHANICAL ..... A10,A11,A12,A13,C13,C14, C15,C16, C17,C18,C19,C58,C59,140,26F	EA	13
7	9	PAOZZ	5310-00-559-0070	96906	MS35333-38	• WASHER, LOCK ..... A09,A14	EA	32
7	9	PAOZZ	5310-00-576-5752	96906	MS35333-39	• WASHER, LOCK ..... C13,C14,C15,C61,C62	EA	36
7	9	PAOZZ	5310-00-576-5752	96906	MS35333-39	• WASHER, LOCK ..... A10,A11,A12,A13,C13,C14, C15,C16, C17,C18,C19,C58,C59,140,26F	EA	32
7	10	PAOZZ	5305-00-432-4172	96906	MS51861-37	• SCREW, TAPPING, THREA ..... A09,A14	EA	32
7	10	PAOZZ	5305-00-855-0964	96906	MS24629-48	• SCREW, TAPPING ..... C13,C14,C15,C61,C62	EA	36

## SECTION II

**TM 9-2330-271-14&P**

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
7	10	PAOZZ	5305-00-855-0964	96906	MS24629-48	• SCREW,TAPPING,THRE ..... A10,A1,A12,A13,C16, C17,C18,C19,C58,C59,140,26F	EA	52
7	11	PAOZZ	6220-00-752-5992	96906	MS35420-1	• LENS, LIGHT..... A09,A10,A11,A12,A13,A14,C16,C17, C18,C19,C58,C59,140,26F	EA	2
7	11	PAOZZ	6220-00-752-5993	96906	MS35420-2	• LENS.LIGHT.....AO9,A10,A11,A12,A13,A14,C16 C17,C18,C19,C58,C59,140,26F	EA	2
E-22(E-23 BLANK)								

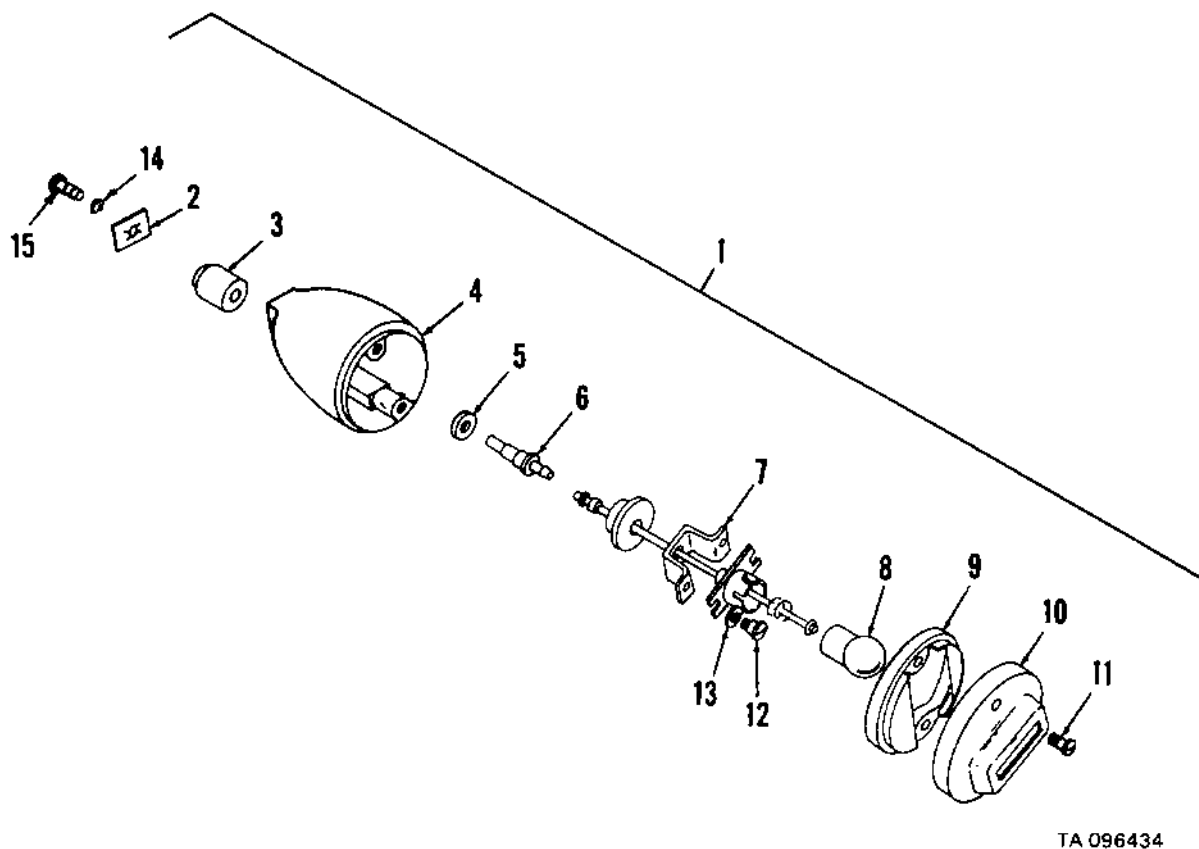
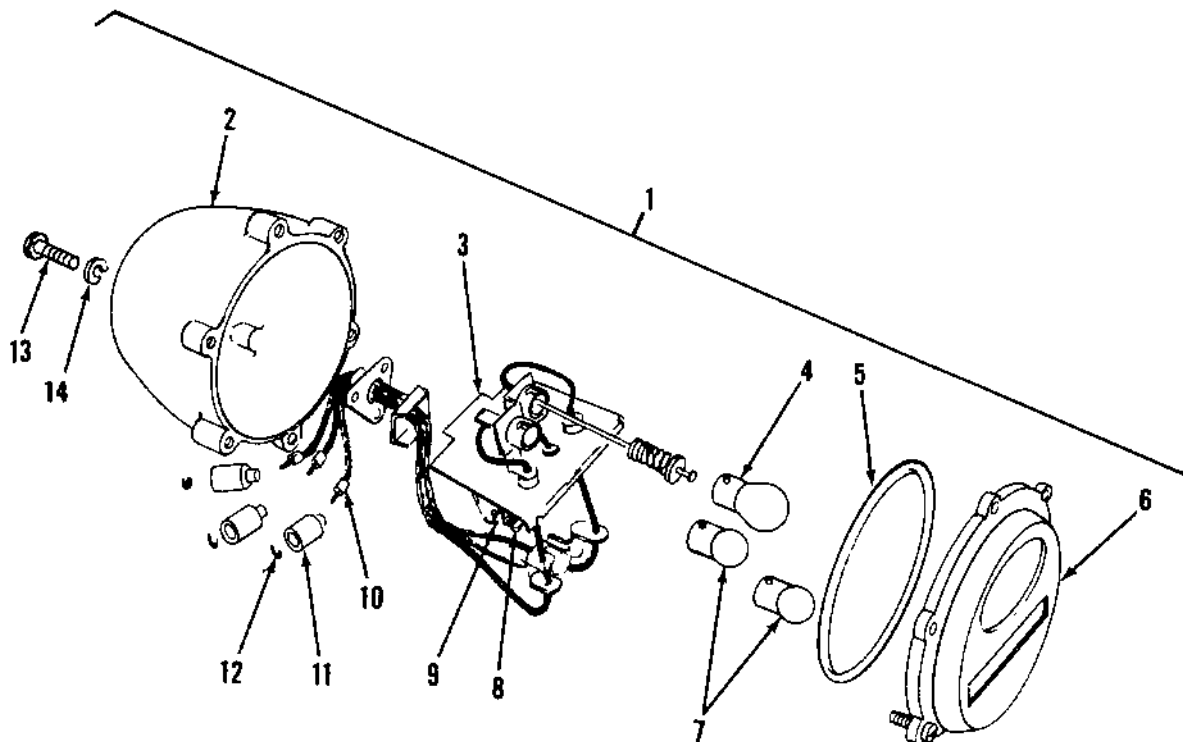


Figure 8. Blackout stoplight, XM574,XM574E1,XM654,XM680,XM680E1, XM739,XM739E1,XM822,XM823,XM824.

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
8	1	PAOZZ	6220-00-846-9745	96906	MS51302-1	STOP LIGHT,VEHICULA.....A09,A10,A11,A12,A13,A14, C58,C59,140,26F	EA	1
8	2	PAOZZ	5310-00-720-8208	19207	8687084	• PUSH ON NUT.....A09,A10,A11,A12,A13,A14.C58, C59,140,26F	EA	1
8	3	PAOZZ	6220-00-906-0159	19207	7982399	• BOOT,DUST AND MOISTA09,..... A10,A11,A12,A13,A14, C58,C59,140,26F	EA	1
8	4	PAOZZ	6220-00-433-5966	19207	8741650	• HOUSING, BLACKOUT L..... A09,A10,A11,A12,A13,A14, C58,C59,140,26F	EA	1
8	5	PAOZZ	5970-00-781-9861	19207	8386475	• INSULATOR,WASHER ..... A09,A10,A11,A12,A13,A14, C58,C59,140,26F		
8	6	PAOZZ	5940-00-867-5245	19207	8386477	• TERMINAL,FEEDTHRU .A09,A10,A11,A12,A13,A14.C58, C59,140,26F	EA	1
8	7	PAOZZ	6240-00-741-5451	19207	8741651	• LAMPHOLDER..... A09,A10,A11,A12,A13,A14, C59,140,26F	EA	1
8	8	PAOZZ	6240-00-019-0877	96906	MS15570-1251	• LAMP,.INCANDESCENT..... A09,A10,A11,A12,A13,A14, C58,C59,140,26F	EA	1
8	9	PAOZZ	5330-00-678-9047	19207	8694464	• GASKET ..... A09,A10,A11,A12,A13,A14, C59,140,26F	EA	1
8	10	PAOZZ	6220-00-775-2384	19207	8741646	• DOOR ASSEMBLY,STOP ..... A09,A10,A11,A12,A13,A14, C59,140,26F	EA	1
8	11	PAOZZ	5305-00-764-0070	96906	MS51959-46	• SCREW, MACHINE ..... A09,A10,A11,A12,A13,A14, C59,140,26F	EA	2
8	12	PAOZZ	5305-00-633-0785	19207	8335233	• SCREW,SHOULDER ..... A09,A10,A11,A12,A13,A14, C59,140,26F	EA	2
8	13	PAOZZ	5310-00-732-0688	19207	7320688	• WASHERFLAT ..... A09,A10,A11,A12,A13,A14, C59,140,26F	EA	2
8	14	PAOZZ	5310-00-407-9566	96906	MS35338-45	• WASER,LOCK ..... A09,A10,A11,A12,A13,A14, C59,140,26F	EA	1
8	15	PAOZZ	5306-00-225-9084	96906	MS90726-29	• BOLT, MACHINE..... A09,A10,A11,A12,A13,A14, C59,140,26F	EA	1



TA 032431

Figure 9. Stoplight, taillight, XM574,XM574E1,XM654,XM680,XM68E1,XM738,XM739,XM739E1,XM822,XM823,XM824.



## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
9	1	PAOOO	6220-00-669-5623	19207	8378785	STOP LIGHT-TAILLIGH VEHICULAR ... A09,A10,A11,A12, A13,A14,C58,C59,140,26F	EA	2
9	2	PAOZZ	6220-00-500-0437	96906	MS53047-1	• LIGHT, MARKER,CLEARA..... A09,A10,A11,A12, ..... A13,A14,C58,C59,140,26F	EA	1
9	3	PAOZZ	2590-00-693-3452	19207	8378661	• SOCKET AND WIRING A..... A09,A10,A11,A12, ..... A13,A14,C58,C59,140,26F	EA	1
9	4	PAOZZ	6240-00-044-6914	96906	MS35478-1683	• LAMP, INCANDESCENT..... A09,A10,A11,A12, ..... A13,A14,C58,C59,140,26F	EA	1
9	5	PAOZZ	5330-00-297-7106	19207	7320658	• PACKING, PREFORMED..... A09,A10,A11,A12, ..... A13,A14,C58,C59,140,26F	EA	1
9	6	PAOZZ	6220-00-752-6020	19207	7526020	• DOOR ASSEMBLY, LIGHT ..... A09,A10,A11,A12, ..... A13,A14,C58,C59,140,26F	EA	1
9	7	PAOZZ	6240-00-019-0877	96906	MS15570-1251	• LAMP, INCANDESENT ..... A09,A10,A11,A12, ..... A13,A14,C58,C59,140,26F	EA	2
9	8	PAOZZ	5305-00-889-3002	96906	MS35206-242	• SCREW,MACHINE ..... A09,A10,A11,A12, ..... A13,A14,C58,C59,140,26F	EA	2
9	9	PAOZZ	5310-00-045-3299	96906	MS35338-42	• WASHER,LOCK ..... A09,A10,A11,A12, ..... A13,A14,C58,C59,140,26F	EA	2
9	10	PAOZZ	5999-00-057-2929	96906	MS27148-2	• CONTACT,ELECTRICAL ..... A09,A10,A11,A12, ..... A13,A14,C58,C59,140,26F	EA	3
9	11	PAOZZ	5935-00-572-9180	19207	8338566	• SHELL, ELECTRICAL CO. .... A09,A10,A11,A12, ..... A13,A14,C58,C59,140,26F	EA	3
9	12	PAOZZ	5310-00-833-8567	19207	8338567	• WASHER, SLOTTED ..... A09,A10,A11,A12, ..... A13,A14,C58,C59,140,26F	EA	3
9	13	PAOZZ	5305-00-115-9526	96906	MS18154-58	• SCREW, CAP, HEXAGON H..... A09,A10,A11,A12, ..... A13,A14,C58,C59,140,26F	EA	2
9	14	PAOZZ	5310-00-637-9541	96906	MS35338-46	• WASHER, LOCK ..... A09,A10,A11,A12,	EA	2

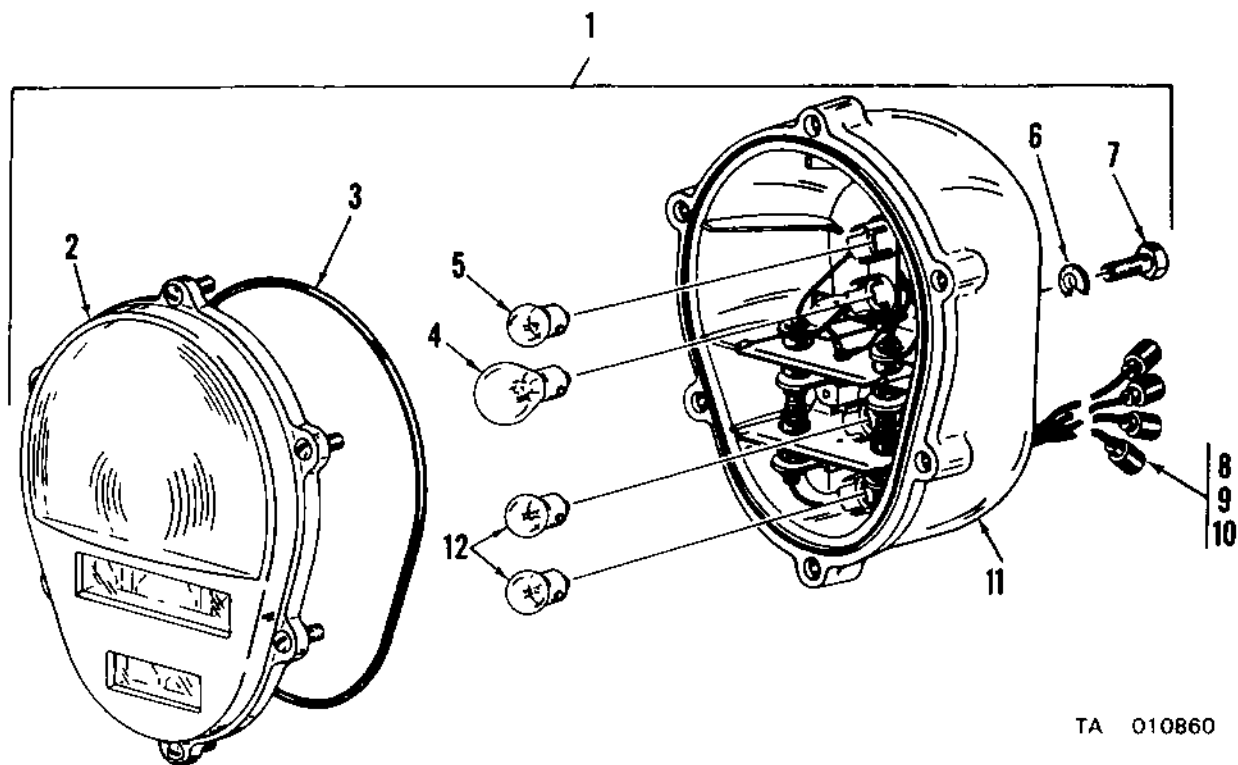
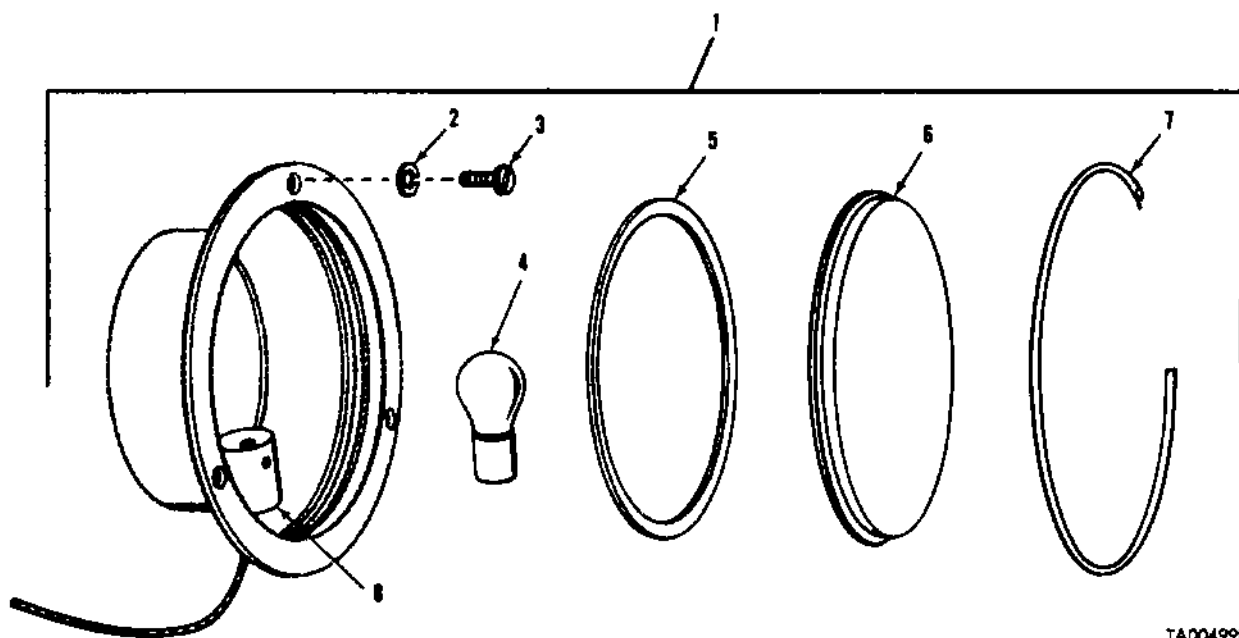


Figure 10. Composite stoplight taillight, XM822(after serial no. S2669), XM844,XM845,XM847, XM848,XM849,XM850,XM912, XM913.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
10	1	PAOOO	6220-01-093-4439	19207	11614157	STOP LIGHT-TAILLIGHT .....	EA	2
10	2	PAOZZ	6220-00-179-4324	19207	11639535	• LENS,LIGHT..... C13,C14,C15,C16,C17, C18,C19,C61,C62	EA	1
10	3	PAOZZ	5330-00-462-0907	19201	11639519-2	• PACKING,PREFORMED..... C13,C14,C15,C16,C17, C18,C19,C61,C62	EA	1
10	4	PAOZZ	6240-00-044-6914	96906	MS35478-1683	• LAMP,INCANDESCENT SERVICE STOP LIGHT AND TURN C13,C14,C15,C16,C17,C18,C19,C61,C62	EA	1
10	5	PAOZZ	6240-00-019-3093	96906	MS15570-623	• LAMP,INCANDESCENT SERVICE TAILLIGHT .....	EA	1
10	6	PAOZZ	5310-00-637-9541	96906	MS35338-46	• WASHER,LOCK ..... C13,C14,C15,C16,C17, C18,C19,C61,C62	EA	2
10	7	PAOZZ	5305-00-115-9526	96906	MS18154-58	• SCREW,CAP,HEXAGON H..... C13,C14,C15,C16,C17, C18,C19,C61,C62	EA	2
10	8	PAOZZ	5935-00-572-9180	19207	8338566	• SHELL ELECTRICAL ..... C13,C14,C15,C16,C17, C18,C19,C61,C62	EA	4
10	9	PAOZZ	5310-00-833-8567	19207	8338567	• WASHER SLOTTED ..... C13,C14,C15,C16,C17, C18,C19,C61,C62	EA	4
10	10	PAOZZ	5999-00-057-2929	96906	MS27148-2	• CONTACT, ELECTRICAL .....	EA	4
10	11	PAOZZ		19207	11639520	• BODY ASSEMBLY ..... C13,C14,C15,C16,C17, C18,C19,C61,C62	EA	2
10	12	PAOZZ	6240-00-019-0877	96906	MS15570-1251	• LAMP, INCANDESCENT.....	EA	2



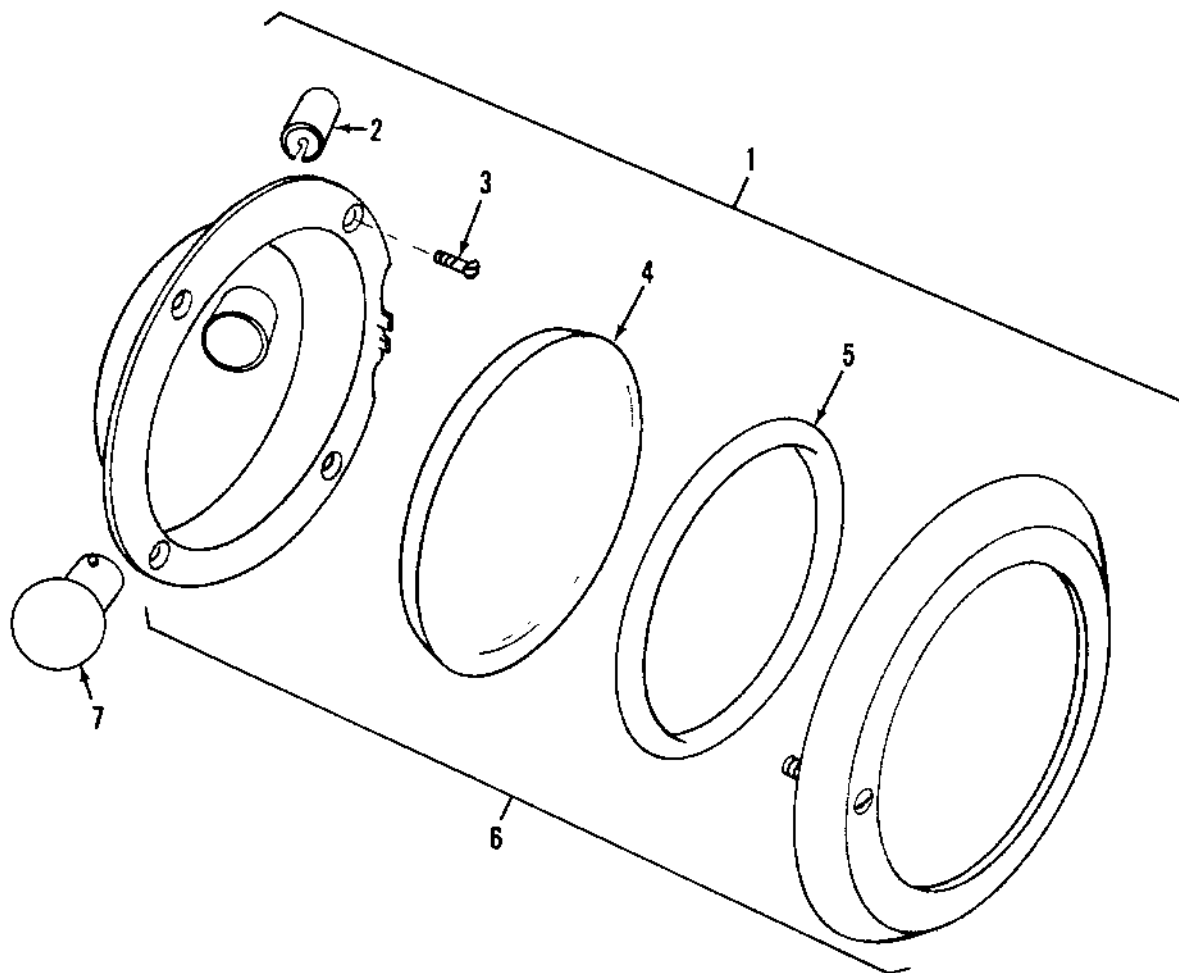
TA004998

Figure 11. I.C.C. stoplight, XM654.

## SECTION II

**TM 9-2330-271-14&P**

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
11	1	XDOZZ		40670	3296977	STOP LIGHT, VEHICULA..... A10	EA	2
11	2	PAOZZ	5310-00-045-3296	96906	MS35338-43	• WASHER, LOCK ..... A10	EA	3
11	3	PAOZZ	5305-00-432-4205	96906	MS51861-49	• SCREW, TAPPING, THREA ..... A10	EA	3
11	4	PAOZZ	6240-00-617-0991	96906	MS35478-1073	• LAMP, INCANDESCENT ..... A10	EA	1
11	5	PAOZZ	5330-00-930-0016	40670	3296978	• GASKET ..... A10	EA	1
11	6	PAOZZ	6220-00-835-6316	40670	3296980	• LENS, LIGHT ..... A10	EA	1
11	7	PAOZZ	5340-01-126-1359	40670	3296981	• RING, RETAINING ..... A10	EA	1
11	8	XDOZZ		40670	3296977-1	• SHELL AND SOCKET AY ..... A10	EA	1



TA 032432

Figure 12. Dome light, 24-volt (all models except XM912,XM913)

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
12	1	PAOZZ	6220-01-003-2497	19207	10923539	LIGHT,DOME .....A11,A12,A13,C13,C14,C15,C16,C17, C18,C19,C58,C59,140,26F	EA	3
12	1	PAOZZ	6220-01-003-2497	19207	10923539	LIGHT,DOME ..... A10	EA	1
12	1	PAOZZ	6220-00-299-5893	19207	7092286	LIGHT,DOME RED ..... A09,A14	EA	4
12	2	XBOZZ		19207	7092287	• SOCKET, LAMP ..... A10	EA	1
12	2	XBOZZ		19207	7092287	• SOCKET, LAMP .....A11,A12,A13,C13,C14,C15,C16,C17, C18,C19,C58,C59,140,26F	EA	1
12	2	XBOZZ		19207	7092287	• SOCKET, LAMP ..... A09,A14	EA	1
12	3	PAOZZ	5305-00-483-0555	96906	MS51862-28	• SCREW,TAPPING,THREA ..... A10	EA	4
12	3	PAOZZ	5305-00-483-0555	96906	MS51862-28	• SCREW,TAPPING,THREA .. A11,A12,A13,C13,C14,C15, C16,C17, C18,C19,C58,C59,140,26F	EA	4
12	3	PAOZZ	5305-00-483-0555	96906	MS51862-25	• SCREW,TAPPING,THREA ..... A09,A14	EA	4
12	4	PAOZZ	6220-00-741-2769	19207	8327366	• LENS,LIGHT ..... A10	EA	1
12	4	PAOZZ	6220-00-741-2769	19207	8327366	• LENS,LIGHT .....A11,A12,A13,C13,C14,C15,C16,C17, C18,C19,C58,C59,140,26F	EA	1
12	4	XDOZZ		40670	34861024	• LENS,LIGHT ..... A09,A14	EA	1
12	5	PAOZZ	5330-00-741-2770	19207	7412770	• SEAL,RUBBER ROUND S ..... A10	EA	1
12	5	PAOZZ	5330-00-741-2770	19207	7412770	• SEAL RUBBER SPECIAL .... A11,A12,A13,C13,C14,C15, C16,C17, C18,C19,C58,C59,140,26F	EA	1
12	5	PAOZZ	5330-00-741-2770	19207	7412770	• SEAL,RUBBER ROUND S ..... A10	EA	1
12	6	XAOZZ		19207	7092290	• BODY ASSEMBLY ..... A10	EA	1
12	6	XAOZZ		19207	7092290	• BODY ASSEMBLY .A11,A12,A13,C13,C14,C15,C16,C17, C18,C19,C58,C59,140,26F	EA	1
12	6	XAOZZ		19207	7092290	• BODY ASSEMBLY ..... A09,A14	EA	1
12	7	PAOZZ	6240-00-044-6914	96906	MS35478-1683	• LAMP,INCANDESCENT ..... A10	EA	1
12	7	PAOZZ	6240-00-044-6914	96906	MS35478-1683	• LAMP,INCANDESCENT ..... A11,A12,A13,C13,C14,C15, C16,C17, C18,C19,C58,C59,140,26F	EA	1
12	7	PAOZZ	6240-00-019-3093	96906	MS35478-1683	• LAMP,INCANDESCENT ..... A09,A14	EA	1

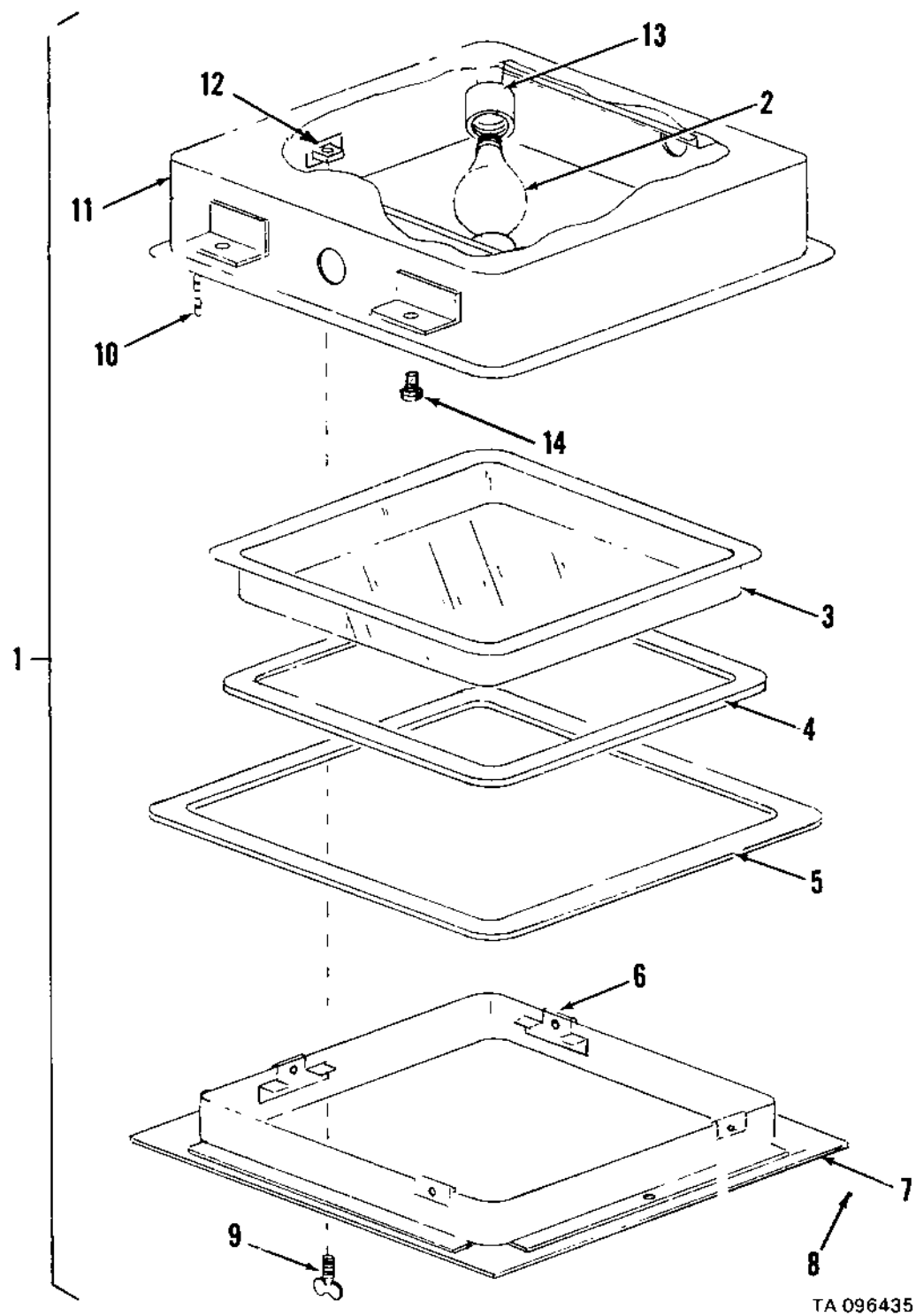
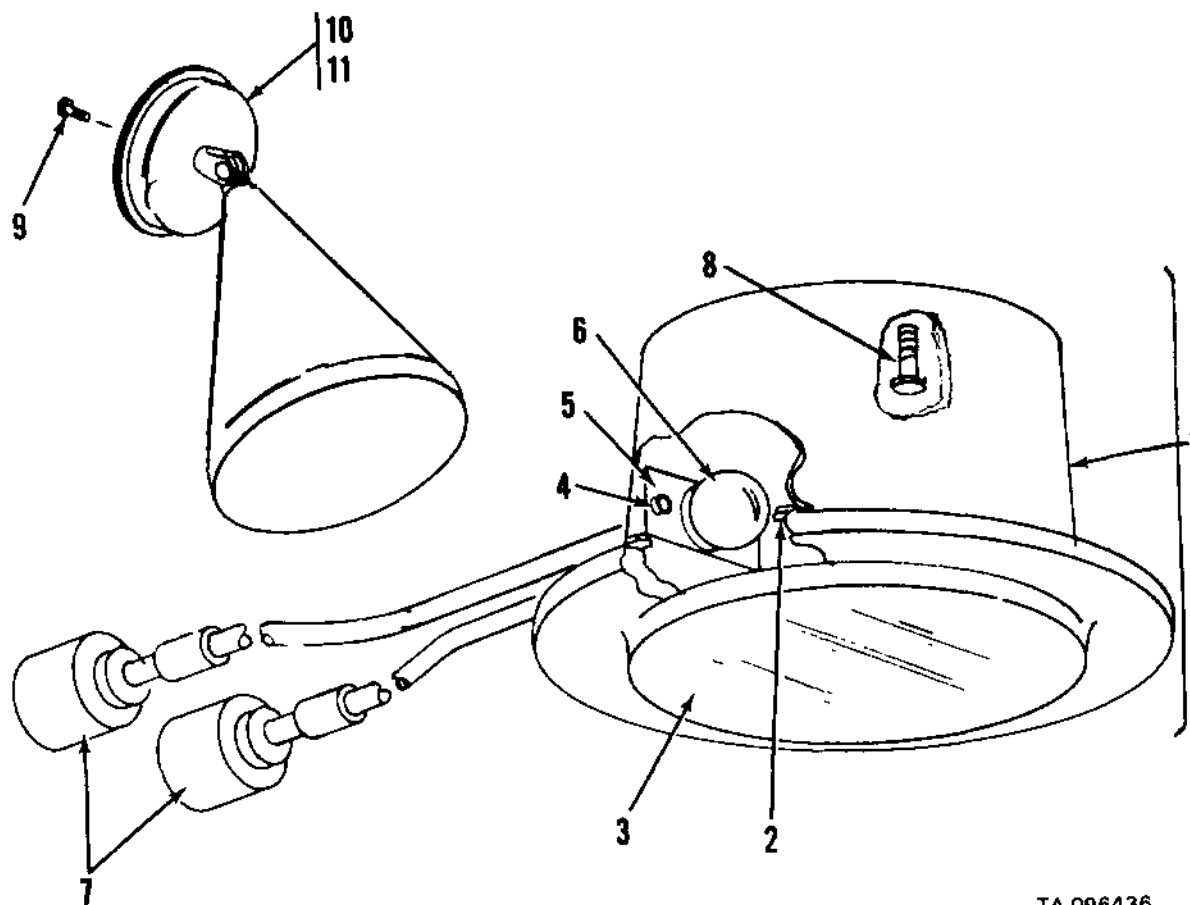


Figure 13. Dome light, 110-volt, XM654,XM680,XM680E1,XM822.



(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
13	1	XDOZZ		40670	34861022	FIXTURE, LIGHTING..... A10	EA	30
13	1	XDOZZ		40670	34861022	FIXTURE, LIGHTING..... A09,A14	EA	8
13	1	PAOZZ	6210-01-044-4064	40670	11683161	LIGHT DOME ..... C13	EA	2
13	1	XDOZZ		19207	11683160	LIGHT DOME ..... C13	EA	2
13	2	PAOZZ	6240-00-782-2052	40670	34861041	• LAMP, INCANDESCENT ..... A09,A10,A14	EA	1
13	2	XDOZZ		40670	58854-A-21	• LAMP, INCANDESCENT ..... C13	EA	1
13	2	PAOZZ	6240-00-782-2342	19207	11683254	• LAMP, INCANDESCENT ..... C13	EA	1
13	3	XDOZZ		40670	34861023	• LENS, LIGHT ..... A09,A10,A14	EA	1
13	3	XDOZZ		19207	11683210	• LENS, LIGHT ..... C13	EA	1
13	4	PAOZZ	5330-01-130-6348	40670	34861022-8	• GASKET ..... A09,A10,A14	EA	1
13	4	PAOZZ	5330-00-001-7860	19207	11683236-1	• GASKET ..... C13	EA	1
13	5	PAOZZ	5330-01-127-4032	40670	34861022-9	• GASKET ..... A09,A10,A14	EA	1
13	5	PAOZZ	5330-00-001-7861	19207	11683236-2	• GASKET ..... C13	EA	1
13	6	XDOZZ	5340-01-122-5417	40670	3481022-11	• SNAP-ON GLASS CLIP ..... A09,A10,A14	EA	4
13	6	XDOZZ		19207	11683160-10	• CLIP, SNAP ON ..... C13	EA	4
13	7	XDOZZ	6220-01-097-8409	40670	34861022-10	• COVER, DOME LIGHT ..... A09,A10,A14	EA	1
13	7	XDOZZ		19207	11683160-9	• TRIM, DOME LIGHT ..... C13	EA	1
13	8	PAOZZ	5305-00-855-0964	96906	MS24629-48	• SCREW, TAPPING, THREA ..... A09,A10,A14	EA	4
13	8	PAOZZ	5305-00-964-5937	96906	MS24625-43	• SCREW, TAPPING, THREA ..... C13	EA	4
13	9	PAOZZ	5305-01-103-5716	40670	34861022-12	• THUMBSCREW ..... A09,A10,A14	EA	2
13	9	XDOZZ		19207	11683160-11	• SCREW, THUMB ..... C13	EA	2
13	10	XDOZZ	4010-01-121-8389	40670	34861022-6	• CHAIN, BEAD ..... A09,A10,A14	EA	1
13	10	XDOZZ		19207	11683160-6	• CHAIN TRIM ..... C13	EA	1
13	11	XAOZZ		40670	34861022-1	• BOX, RECESSED ..... A09,A10,A14	EA	1
13	11	XDOZZ		19207	11683161-1	• BOX, RECESSED, DOME ..... C13	EA	1
13	12	XDOZZ	5310-01-122-4599	40670	34861022-5	• NUT, PLAIN PLATE ..... A09,A10,A14	EA	2
13	12	XDOZZ		19207	11683161-5	• NUT, CAGED ..... C13	EA	2
13	13	XBOZZ		40670	34861022-3	• SOCKET, LAMP ..... A09,A10,A14	EA	1
13	13	XDOZZ		19207	11683265	• SOCKET, CAP ..... C13	EA	1
13	14	PAOZZ	5305-00-483-0555	96906	MS51862-28	• SCREW, TAPPING, THREA ..... A10,C13	EA	2
13	14	PAOZZ	5305-00-476-7369	96906	MS51862-25	• SCREW, TAPPING, THREA ..... A09,A14	EA	2



TA 096436

Figure 14. Blackout dome light, XM822; blackout wall light, XM680.

**TM 9-2330-271-14&P**

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
14	1	PBOZZ	6220-01-043-8025	19207	11683159	LAMP UNIT,VEHICLAR DOME WITH RED LENS 110 VOLT ..... C13	EA	3
14	2	PAOZZ	5330-00-741-2770	19207	7412770	.SEAL, RUBSER ROUND S ..... C13	EA	1
14	3	XDDZZ		40670	34861024	LENS; DAYLIGHT ..... C13	EA	3
14	4	PADZZ	5320-00-582-3494	906906	MS20600AD4-4	.RIVET, BLIND..... C13	E	2
14	5	PAOZZ	6250-00-299-6096	13445	2036	.LAMPHOLDER ..... C13	EA	1
14	6	PAOZZ		08108	10C70C	.LAMP, INCANDESCENT CLEAR DOUBLE CONTACT ..... C13	EA	1
14	7	PAOZZ	2590-01-051-1677	19207	10944310	LEAD, ELECTRICAL ..... C13	EA	6
14	8	PAOZZ	5305-00-483-0555	96906	MS5182-28	SCREW, TAPPING, THREA..... C13	EA	12
14	9	PAOZZ	5305-00-855-0967	96906	MS24629-37	SCREW, TAPPING,THREA..... A09	EA	3
14	10	PAOZZ	6210-01-111-0118	40670	34861028	LIGHT, BLACKOUT, WALL ..... A09	EA	1
14	11	PAOZZ	6240-00-536-1851	40670	34861042	LAMP, INCANDESCENT RED..... A09	EA	1
<b>E-37</b>								

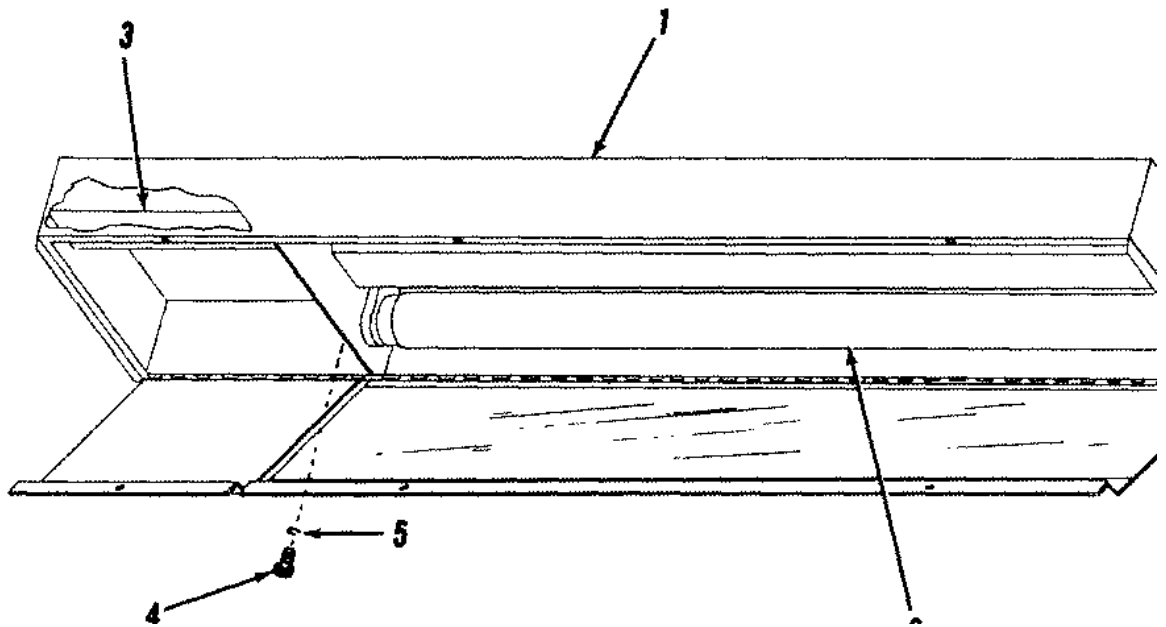


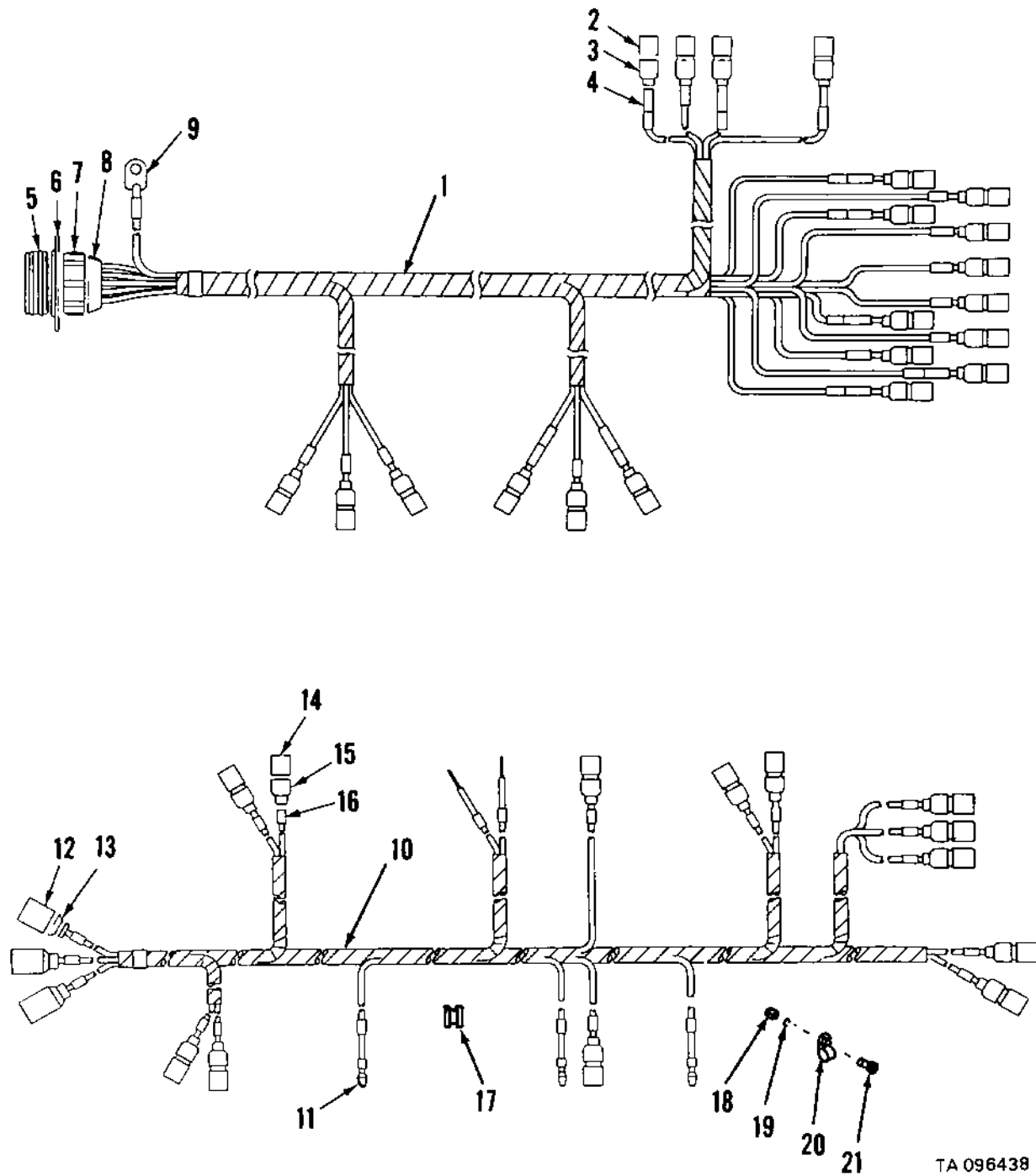
Figure 15. Fluorescent lighting fixture.

TA 096437

## SECTION II

**TM 9-2330-271-14&P**

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
15	1	XDOZZZ		19207	11683259	LIGHT, DOME ..... C13	EA	6
15	2	XDOZZ		19207	11683256	.LAMP, FLUORESCENT..... C13	EA	2
15	3	PAOZZ	6250-00-001-1257	19207	11683257	.BALLAST ..... C13	EA	1
15	4	PAOZZ	5305-00-855-0964	96906	MS24629-48	SCREW, TAPPNG, THREA..... C13	EA	48
15	5	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER, LOCK ..... C13	EA	48
E-39								



TA 096438

Figure 16. Wiring harness, main, XM574,XM574E1,XM680,XM680E1,XM738,XM739, XM739E1,XM823,XM824; wiring harness, roof, XM823,XM824.

## SECTION II

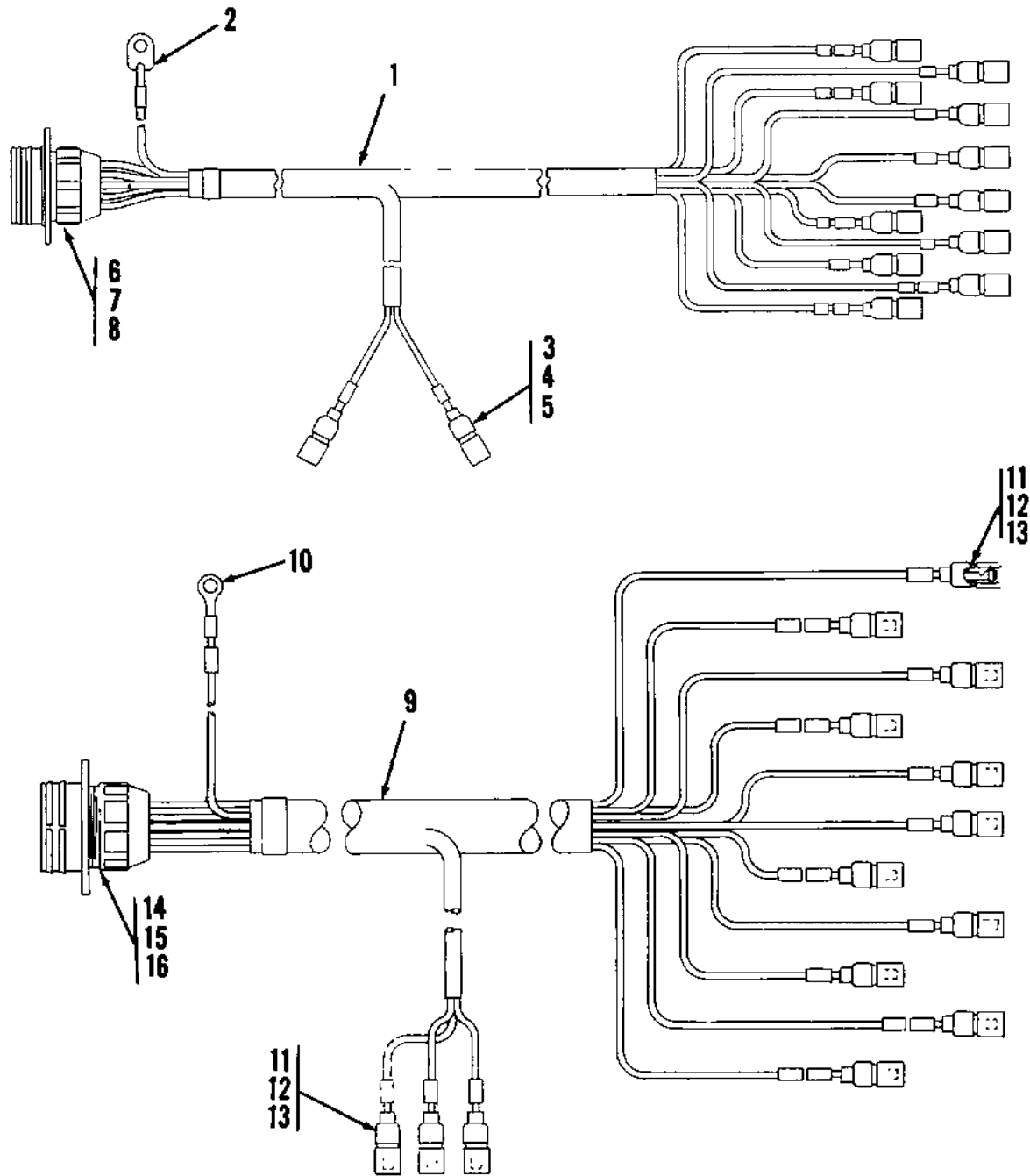
TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 0613 CHASSIS WIRING HARNESS		
16 1	1	MFFZZ		19207	10882274	WIRING HARNESS BRANCHED,MAIN, MANUFACTURED		EA
16	1	MFFZZ		19207	10891478	FROM 6145-00-152-6499,495 FT..... A12,A13		
16	1	MFFZZ		40670	9048940	WIRING HARNESS BRANCHED MAIN, MANUFACTURED	EA	1
16	1	MFFZZ		40670	9048940	FROM 6145-00-152-6499, 525 FT .....	EA	1
16	2	PAOZZ	5935-00-833-8561	19207	8338561	WIRING HARNESS BRANCHED, MAIN MANUFACTURED	EA	1
16	3	PAOZZ	5970-00-833-8562	19207	8338562	FROM 6145-00-1526499, 525 FT .....	EA	21
16	4	PAOZZ	5940-00-846-5012	19207	8338563	.SHELL,ELECTRICAL CO .. A09, A11, A12, A13, A14, C58, C59, 140, 26F.....	EA	21
16	5	PAOZZ	5935-00-846-3883	19207	8376208	.INSULATOR, BUSHING ..... A09, A11, A12, A13 A14, C58, C59, 140, 26F.....	EA	21
16	6	PAOZZ	5365-00-090-5426	19207	7722333	.FERRULE, ELECTRICAL ... A09, A11, A12, A13, A14 C58, C59, 140, 26F.....	EA	1
16	7	PAOZZ	9390-00-180-7289	19207	8724763	.CONNECTOR, RECEPTACL.....A09, A11, A12, A13, A14, C58, C59, 140, 26F .....	EA	1
16	8	PAOZZ	5310-00-393-6685	19207	7723309	.BUSHING, RUBBER.....A09, A11, A12, A13, A14, C58, C59, 140, 26F .....	EA	1
16	9	PAOZZ	5940-00-050-6209	21450	506209	.NONMETALLIC ROD.....A09, A11, A12, A13, A14, C58, C59, 140, 26F .....	EA	1
16	10	MFFZZ		40670	9048930	.NUT, PLAIN, KNURLED .....A09, A11, A12, A13, A14, C58, C59, 140, 26F .....	EA	1
16	11	PAOZZ	5999-00-057-2929	96906	MS27148-2	.TERMINAL LUG ..... A09, A11, A12, A13, A14, C58, C59, 140, 26F.....	EA	1
16	12	PAOZZ	5935-00-572-9180	19207	8338566	WIRING HARNESS BRANCHED, ROOF, MANUFACTURED	EA	1
16	13	PAOZZ	5310-00-833-8567	19207	8338567	FROM 6145-00-152-6499, 205 FT ..... C58, C59	EA	3
16	14	PAOZZ	5935-00-833-8561	19207	8338561	.CONTACT, ELECTRICAL.....C58, C59	EA	3
16	15	PAOZZ	5970-00-833-8562	19207	8338562	.SHELL, ELECTRICAL CO .....C58, C59	EA	3
16	16	PAOZZ	5940-00-846-5012	19207	8338563	.WASHER, SLOTTED .....C58, C59	EA	13
16	17	PAOZZ	5325-00-174-9008	96906	MS35489-15	.SHELL, ELECTRICAL CO .....C58, C59	EA	13
16	17	PAOZZ	5325-00-174-9008	96906	MS35489-15	.INSULATOR, BUSHING .....C58, C59	EA	64
16	17	PAOZZ	5325-00-174-9008	96906	MS35489-15	.FERRULE, ELECTRICAL .....C58, C59	EA	66
16	17	PAOZZ	5325-00-171-6387	96906	MS35489-51	GROMMET, NONMETALLIC.....A09, A10, A11, A12, A13, A14, C58, C59, 140, 26F.....	EA	66
16	17	PAOZZ	5325-00-171-6387	96906	MS35489-51	GROMMET, NONMETALLIC..... C13	EA	66
16	17	PAOZZ	5325-00-171-6387	96906	MS35489-51	GROMMET, NONMETALLIC..... C14, C15, C16, C17, C18, C19, C61, C62.....	EA	66
16	17	PAOZZ	5325-00-171-6387	96906	MS35489-51	GROMMET, NONMETALLIC..... A10	EA	46
16	17	PAOZZ	5325-00-171-6387	96906	MS35489-51	GROMMET, NONMETALLIC..... A11, 140, 26F	EA	28
16	17	PAOZZ	5325-00-171-6387	96906	MS35489-51	GROMMET, NONMETALLIC..... A12, A13, C58, C59	EA	21
16	17	PAOZZ	5325-00-171-6387	96906	MS35489-51	GROMMET, NONMETALLIC..... C14, C15, C16, C17, C18, C19, C61, C62.....	EA	28
16	17	PAOZZ	5325-01-039-4574	19207	10906797	GROMMET, NONMETALLIC..... A09, A14	EA	21
16	17	PAOZZ	5325-01-050-1586	19207	10906798	GROMMET, NONMETALLIC..... A09, A14	EA	7
16	17	PAOZZ	5325-00-290-0074	96906	MS35489-109	GROMMET, NONMETALLICA09, A10, A11, A12, C13 A14, C13, C58, C59, 140, 26F	EA	4
16	17	PAOZZ	5325-00-579-6134	96906	MS35489-80	GROMMET, NONMETALLICA09, A10, A11, A12, A13 A14, C58, C59, 140, 26F	EA	1
16	17	PAOZZ	5325-00-579-6134	96906	MS24489-80	GROMMET, NONMETALLIC..... C13	EA	8
16	17	PAOZZ	5325-00-579-6134	96906	MS35489-80	GROMMET, NONMETALLIC..... C14, C15, C16, C17, C18, C19, C61, C62.....	EA	8
16	17	PAOZZ	5325-01-050-1586	19207	10906798	GROMMET, NONMETALLIC..... A09, A14	EA	34
16	17	PAOZZ	5325-00-270-8890	70485	2276	GROMMET, NONMETALLIC..... A09, A14	EA	34

**TM 9-2330-271-14&P**

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
16	17	PAOZZ	5325-00-754-1154	96906	MS35489-71	GROMMET, NONMETALLIC.....A09, A10, A11, A12, A13, A14, C58, C59, 140, 26F	EA	1
16	18	PAOZZ	5310-00-934-9758	96906	MS35649-202	NUT, PLAIN, HEXAGON ..... A12, A13, C58, C59	EA	2
16	18	PAOZZ	5310-00-934-9758	96906	MS35649-202	NUT, PLAIN, HEXAGON ..... C13	EA	6
16	18	PAOZZ	5310-00-934-9758	96906	MS35649-202	NUT, PLAIN, HEXAGON .....C14, C15, C16, C17, C18 C19.....	EA	7
16	18	PAOZZ	5310-00-934-9758	96906	MS35649-202	NUT, PLAIN, HEXAGON .....C61, C62	EA	7
16	18	PAOZZ	5310-00-761-6882	96906	MS51967-2	NUT, PLAIN, HEXAGON ..... A09, A10, A11, A12, A13 A14, C58, C59, 140, 26F	EA	3
16	18	PAOZZ	5310-00-761-6882	96906	MS51967-2	NUT, PLAIN, HEXAGON ..... C13	EA	4
16	19	PAOZZ	5310-00-045-3296	96906	MS35338-43	WASHER, LOCK ..... A12, A13, C58, C59	EA	2
16	19	PAOZZ	5310-00-045-3296	96906	MS35338-43	WASHER, LOCK ..... C14, C15, C16, C17, C18, C19, C61, C62	EA	7
16	19	PAOZZ	5310-00-045-3296	96906	MS35338-43	WASHER, LOCK ..... C13	EA	6
16	19	PAOZZ	5310-00-550-1130	96906	MS35333-40	WASHER, LOCK ..... A09, A10, A11, A12, A13, A14 C58, C59, 140, 26F	EA	3
16	19	PAOZZ	5310-00-550-1130	96906	MS35333-40	WASHER, LOCK ..... C13	EA	4
16	20	PAOZZ	5340-00-597-6153	96906	MS21919F12	CLAMP, LOOP ..... A12, A13, C58, C59	EA	2
16	20	PAOZZ	5340-00-088-1254	96906	MS21333-104	CLAMP, LOOP .....A10, A11, A12, A13, C16, C17 C58, C59, 140, 26F	EA	3
16	20	PAOZZ	5340-00-597-6153	96906	MS21919F12	CLAMP, LOOP ..... C14, C15, C18, C19	EA	7
16	20	PAOZZ	5935-00-283-3394	40670	3234981	CLAMP, CALBE ELECTRI..... A10	EA	2
16	20	PAOZZ	5340-00-088-1254	96906	MS21333-104	CLAMP, LOOP ..... A09, A14	EA	3
16	20	PAOZZ	5340-00-057-4094	96906	MS35140-16	STRAP, RETAINING ..... A09	EA	12
16	21	PAOZZ	5305-00-984-6210	96906	MS35206-263	SCREW, MACHINE ..... C13	EA	6
16	21	PAOZZ	5305-00-988-1725	96906	MS35206-281	SCREW, MACHINE ..... A09, A10, A11, A12, A13, A14 C58, C59, 140, 26F.....	EA	3
16	21	PAOZZ	5305-00-988-1725	96906	MS35206-281	SCREW, MACHINE ..... C13	EA	4
<b>E-42(E-43 BLANK)</b>								





TA 032508

Figure 17. Wiring harness, main, XM822(after serial no. S2669), XM844, XM845, XM847, XM848, XM849, XM850.

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
17	1	MFFZZ		19207	11681236	WIRING HARNESS BRANCHED, MAIN, MANUFACTURED FROM 6145-00-152-6499, 330 FT ..... C14, C15	EA	1
17	2	PAOZZ	5940-00-050-6209	21450	506209	.TERMINAL, LUG ..... C14, C15	EA	1
17	3	PAOZZ	5935-00-833-8561	19207	8338561	.SHELL, ELECTRICAL CO ..... C14, C15	EA	13
17	4	PAOZZ	5970-00-833-8562	19207	8338562	.INSULATOR BUSHING ..... C14, C15	EA	13
17	5	PAOZZ	5940-00-846-5012	19207	8338563	.FERRULE, ELECTRICAL ..... C14, C15	EA	13
17	6	PAOZZ	5935-00-846-3883	19207	8376208	.CONNECTOR, RECEPTAC..... C14, C15	EA	1
17	7	PAOZZ	5365-00-090-5426	19207	7722333	.BUSHING RUBBER..... C14, C15	EA	1
17	8	PAOZZ	5310-00-393-6685	19207	772309	.NUT, PLAIN, KNURLED ..... C14, C15	EA	1
17	9	PFFFF	2590-00-432-1340	19207	11681442	HARNESS ASSEMBLY BRANCHED, MAIN, MANUFACTURED FROM 6145-00-152-6499, 366 FT. C13, C16, C17 C18	EA	1
17	9	MFFZZ		19207	11684313	WIRING HARNESS BRANCHED, MAIN, MANUFACTURED FROM 6145-00-152-6499, 413FT ..... C19	EA	1
17	10	PAOZZ	5940-00-050-6209	21450	506209	.TERMINAL, LUG ..... C13, C18, C19	EA	1
17	10	PAOZZ	5940-00-050-6209	21450	506209	.TERMINAL, LUG ..... C16, C17	EA	1
17	11	PAOZZ	5935-00-833-8561	19207	8338561	.SHELL, ELECTRICAL ..... C13, C18	EA	14
17	11	PAOZZ	5935-00-833-8561	19207	8338561	.SHELL, ELECTRICAL ..... C16, C17	EA	14
17	11	PAOZZ	5935-00-833-8561	19207	8338561	.SHELL, ELECTRICAL CO ..... C19	EA	13
17	12	PAOZZ	5970-00-833-8562	19207	8338562	.INSULATOR, BUSHING ..... C13, C18	EA	14
17	12	PAOZZ	5970-00-833-8562	19207	8338562	.INSULATOR, BUSHING ..... C16, C17	EA	14
17	12	PAOZZ	5970-00-833-8562	19207	8338562	.INSULATOR, BUSHING ..... C19	EA	13
17	13	PAOZZ	5940-00-399-6676	19207	8338564	.TERMINAL ASSEMBLY ..... C13, C16, C17, C18	EA	14
17	13	PAOZZ	5940-00-399-6676	19207	8338564	.TERMINAL ASSEMBLY ..... C19	EA	13
17	14	PAOZZ	5935-00-846-3883	19207	8376208	.CONNECTOR..... C13, C18, C19	EA	1
17	14	PAOZZ	5935-00-846-3883	19207	8376208	.CONNECTOR..... C16, C17	EA	1
17	15	PAOZZ	5365-00-090-5426	16207	7722333	.BUSHING RUBBER..... C16, C17	EA	1
17	15	PAOZZ	5365-00-090-5426	19207	7722333	.BUSHING RUBBER..... C13, C18, C19	EA	1
17	16	PAOZZ	5310-00-393-6685	72869	7723309	.NUT, BUSHING ..... C13, C18, C19	EA	1
17	16	PAOZZ	5310-00-393-6685	72869	7723309	.NUT, BUSHING ..... C16, C17	EA	1

E-45

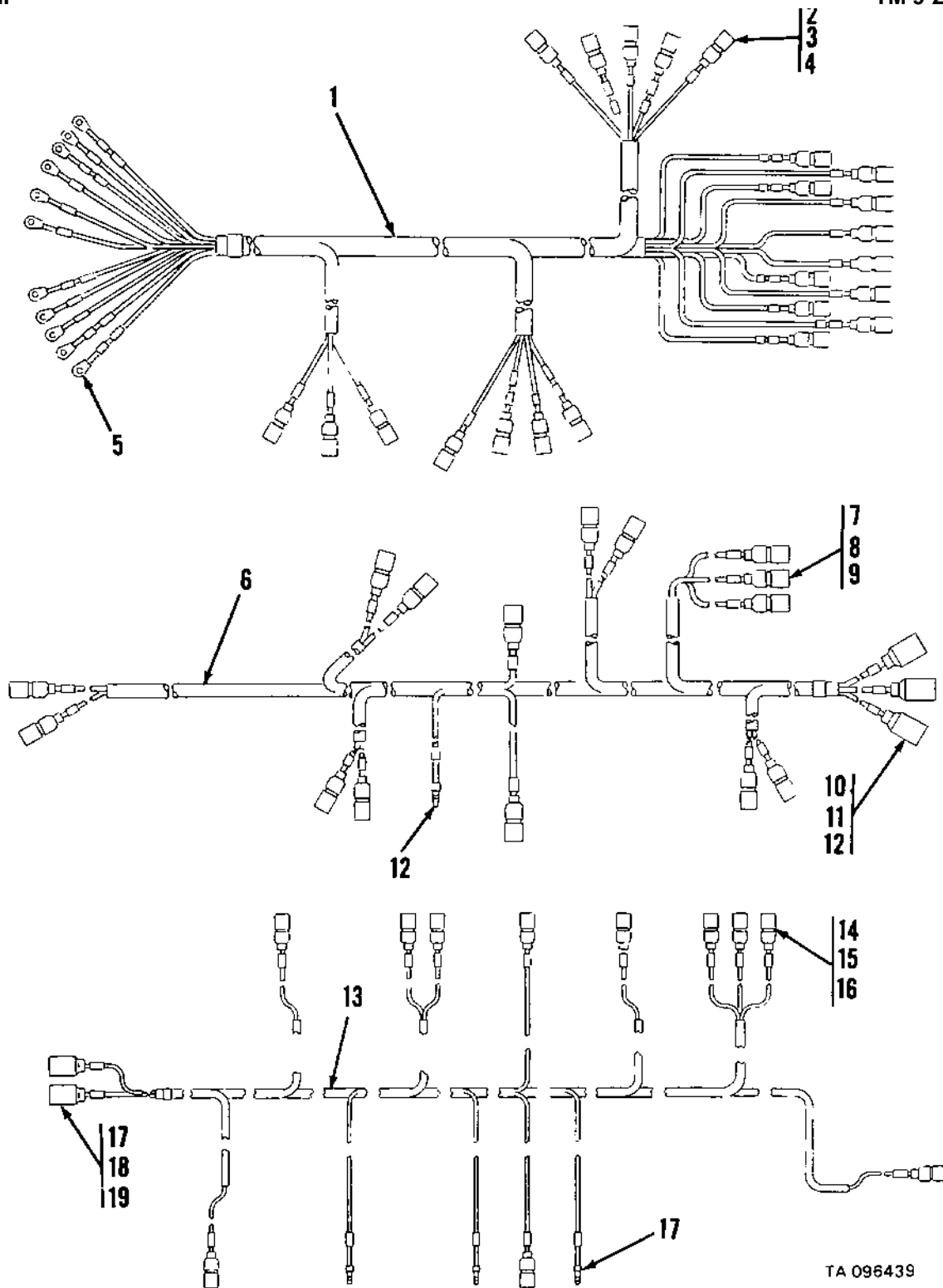


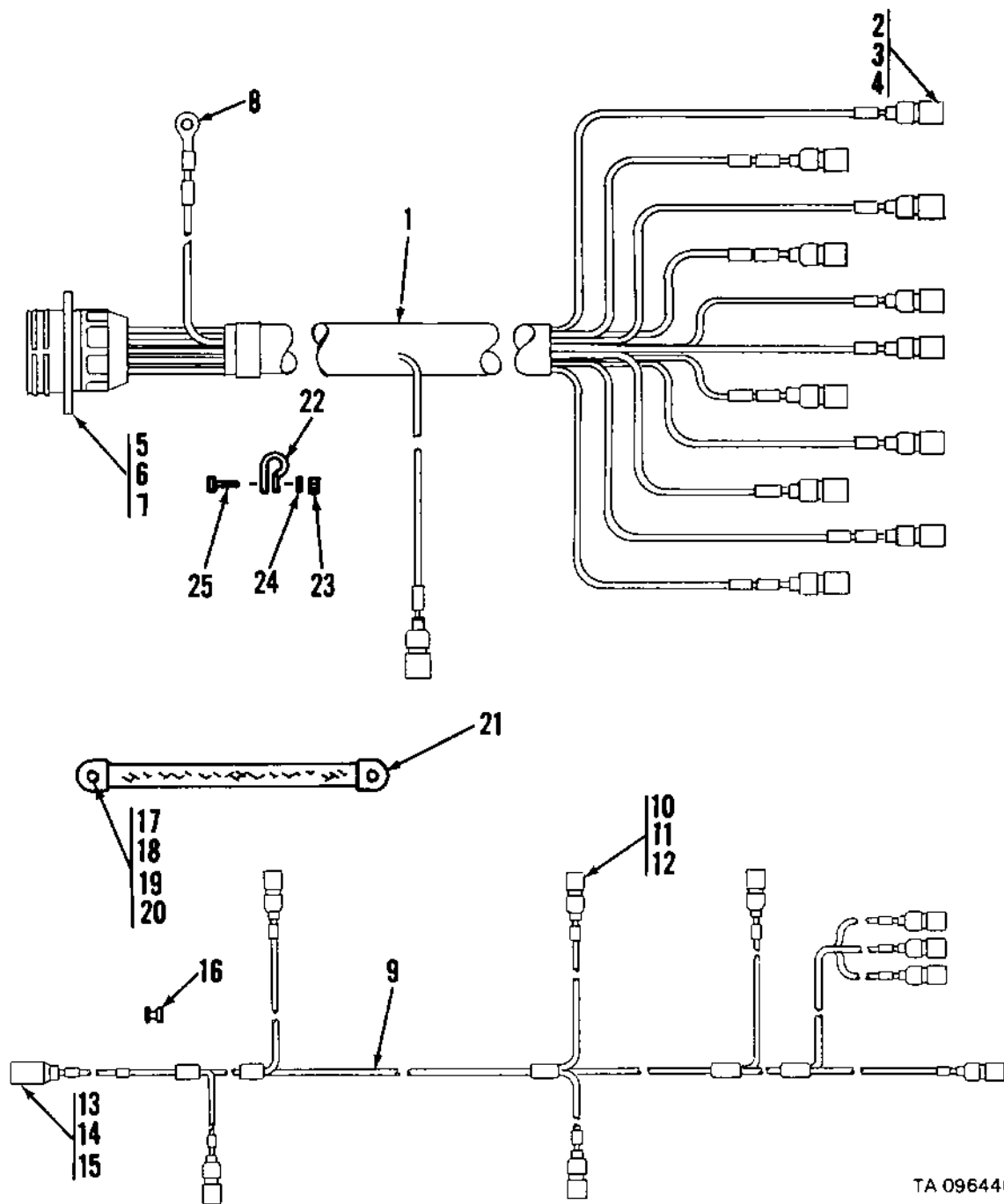
Figure 18. Wiring harness, main, XM654; wiring harness, roof, XM822(after serial no. S2669).

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
18	1	MFFZZ		40670	3670910	WIRING HARNESS BRANCHED, MAIN, MANUFACTURED FROM 6145-00-152-6499, 485 FT ..... A10	EA	1
18	2	PAOZZ	5935-00-833-8561	19207	8338561	.SHELL, ELECTRICAL CO ..... A10	EA	23
18	3	PAOZZ	5970-00-833-8562	19207	8338562	.INSULATOR, BUSHING ..... A10	EA	23
18	4	PAOZZ	5940-00-846-5012	19207	8338563	.FERRULE, ELECTRICAL ..... A10	EA	23
18	5	PAOZZ	5940-00-705-6708	19207	7056708	.TERMINAL, LUG ..... A10	EA	11
18	6	MFFZZ		40670	4042900	WIRING HARNESS BRANCHED, ROOF, MANUFACTURED FROM 6145-00-152-6499, 194 FT ..... A10	EA	1
18	7	PAOZZ	5935-00-833-8561	19207	8338561	.SHELL, ELECTRICAL CO ..... A10	EA	15
18	8	PAOZZ	5970-00-833-8562	19207	8338562	.INSULATOR, BUSHING ..... A10	EA	15
18	9	PAOZZ	5940-00-846-5012	19207	8338563	.FERRULE, ELECTRICAL ..... A10	EA	15
18	10	PAOZZ	5935-00-572-9180	19207	8338566	.SHELL, ELECTRICAL CO ..... A10	EA	3
18	11	PAOZZ	5310-00-833-8567	19207	8338567	.WASHER, SLOTTED ..... A10	EA	3
18	12	PAOZZ	5999-00-057-2929	96906	MS27148-2	.CONTACT, ELECTRICAL ..... A10	EA	4
18	13	MFFZZ		19207	11684383	WIRING HARNESS BRANCHED, ROOF, MANUFACTURED FROM 6145-00-152-6499, 157 FT ..... C13	EA	1
18	14	PAOZZ	5935-00-833-8561	19207	8338561	.SHELL, ELECTRICAL CO ..... C13	EA	11
18	15	PAOZZ	5970-00-833-8562	19207	8338562	.INSULATOR BUSHING ..... C13	EA	11
18	16	PAOZZ	5940-00-399-6676	19207	8338564	.TERMINAL ASSEMBLY ..... C13	EA	11
18	17	PAOZZ	5999-00-057-2929	96906	MS27148-2	.CONTACT, ELECTRICAL ..... C13	EA	5
18	18	PAOZZ	5935-00-572-9180	19207	8338566	.SHELL, ELECTRICAL CO ..... C13	EA	2
18	19	PAOZZ	5310-00-833-8567	19207	8338567	.WASHER, SLOTTED ..... C13	EA	2

E-47



TA 096440

Figure 19. Wiring harness, main; wiring harness, roof, XM912, XM913.

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
19	1	MFFZZ		19207	11684465	WIRING HARNESS BRANCHED, MAIN, MANUFACTURED FROM 6145-00-152-6499, 356 FT 38564, WIRE M134-1-5 (356FT)	EA	1
19	2	PAOZZ	5935-00-833-8561	19207	8338561	.SHELL, ELECTRICAL ..... C61, C62	EA	12
19	3	PAOZZ	5970-00-833-8562	19207	8338562	.INSULATOR, BUSHING ..... C61, C62	EA	12
19	4	PAOZZ	5940-00-399-6676	19207	8338564	.TERMINAL ASSEMBLY ..... C61, C62	EA	12
19	5	PAOZZ	5935-00-846-3883	19207	8376208	.RECEPTACLE ..... C61, C62	EA	1
19	6	PAOZZ	5365-00-090-5426	19207	7722333	.BUSHING, RUBBER ..... C61, C62	EA	1
19	7	PAOZZ	5310-00-393-6685	19207	7723309	.NUT, BUSHING ..... C61, C62	EA	1
19	8	PAOZZ	5940-00-050-6209	21450	506209	.TERMINAL, LUG ..... C61, C62	EA	1
19	9	MFFZZ		19207	11684466	WIRING HARNESS BRANCHED, MAIN MANUFACTURED FROM 6145-00-152-6499, 74 FT WIRE M13486-1-5(74FT) C61, C62	EA	
19	10	PAOZZ	5935-00-833-8561	19207	8338561	.SHELL, ELECTRICAL ..... C61, C62	EA	9
19	11	PAOZZ	5970-00-833-8562	19207	8338562	.INSULATOR, BUSHING ..... C61, C62	EA	9
19	12	PAOZZ	5940-00-846-5012	19207	8338563	.FERRULE, ELECTRICAL ..... C61, C62	EA	9
19	13	PAOZZ	5935-00-572-9180	19207	8338566	.SHELL, ELECTRICAL ..... C61, C62	EA	1
19	14	PAOZZ	5310-00-833-8567	19207	8338567	.WASHER, SLOTTED ..... C61, C62	EA	1
19	15	PAOZZ	5999-00-057-2929	96906	MS27148-2	.CONTACT, ELECTRICAL ..... C61, C62	EA	1
19	16	PAOZZ	5325-00-174-9008	96906	MS35489-15	GROMMET, NONMETALLIC ..... C14, C15, C16, C17, C18, C19, C61, C62	EA	66
19	16	PAOZZ	5325-00-171-6387	96906	MS35489-51	GROMMET, NONMETALLIC ..... C14, C15, C16, C17 C18, C19, C61, C62	EA	28
19	16	PAOZZ	5325-00-579-6134	96906	MS35489-80	GROMMET, NONMETALLIC ..... C14, C15, C16, C17 C18, C19, C61, C62	EA	8
19	17	PAOZZ	5310-00-905-0762	96906	MS51967-3	NUT, PLAIN, HEXAGON ..... C14, C15, C16, C17 C18, C19, C61, C62	EA	1
19	18	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER, LOCK ..... C14, C15, C16, C17, C18, C19 C61, C62	EA	1
19	19	PAOZZ	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT ..... C14, C15, C16, C17, C18, C19 C61, C62	EA	1
19	20	PAOZZ	5305-00-071-2237	96906	MS90725-14	SCREW, CAP, HEXAGON H ..... C14, C15, C16, C17 C18, C19, C61, C62	EA	1
19	21	XDDZZ		19207	11684311	CABLE ASSEMBLY KING PIN GROUND C14, C15, C16, C17, C18, C19, C61, C62	EA	1
19	22	PAOZZ	5340-00-597-6153	96906	MS21919F12	CLAMP, LOOP ..... C61, C62	EA	7
19	22	PAOZZ	5340-00-597-6153	96906	MS2191F12	CLAMP, LOOP ..... C14, C15, C16, C17, C18, C19	EA	4
19	22	PAOZZ	5340-00-088-1254	96906	MS21666-104	CLAMP, LOOP ..... C14, C15, C16, C17, C18, C19	EA	3
19	23	PAOZZ	5310-00-934-9758	96906	MS35649-202	NUT, PLAIN, HEXAGON ..... C14, C15, C16, C17, C18 C19, C61, C62	EA	7
19	24	PAOZZ	5310-00-045-3296	96906	MS35338-43	WASHER, LOCK ..... C14, C15, C16, C17, C18, C19	EA	7
19	25	PAOZZ	5305-00-984-9210	96906	MS35206-263	SCREW, MACHINE ..... C14, C15, C16, C17, C18, C19	EA	7
19	25	PAOZZ	5305-00-984-6210	96906	MS35206-263	SCREW, MACHINE ..... C61, C62	EA	7

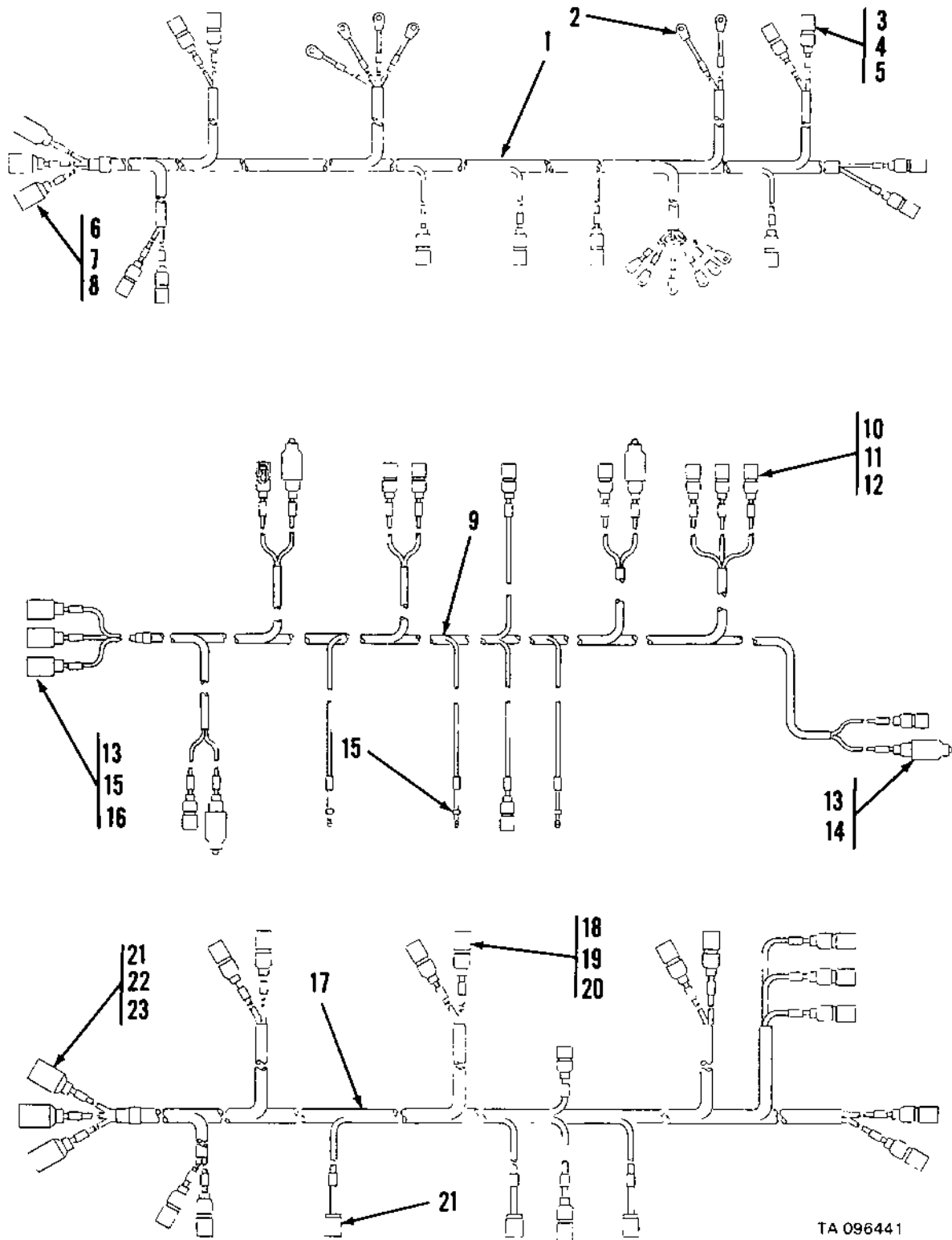
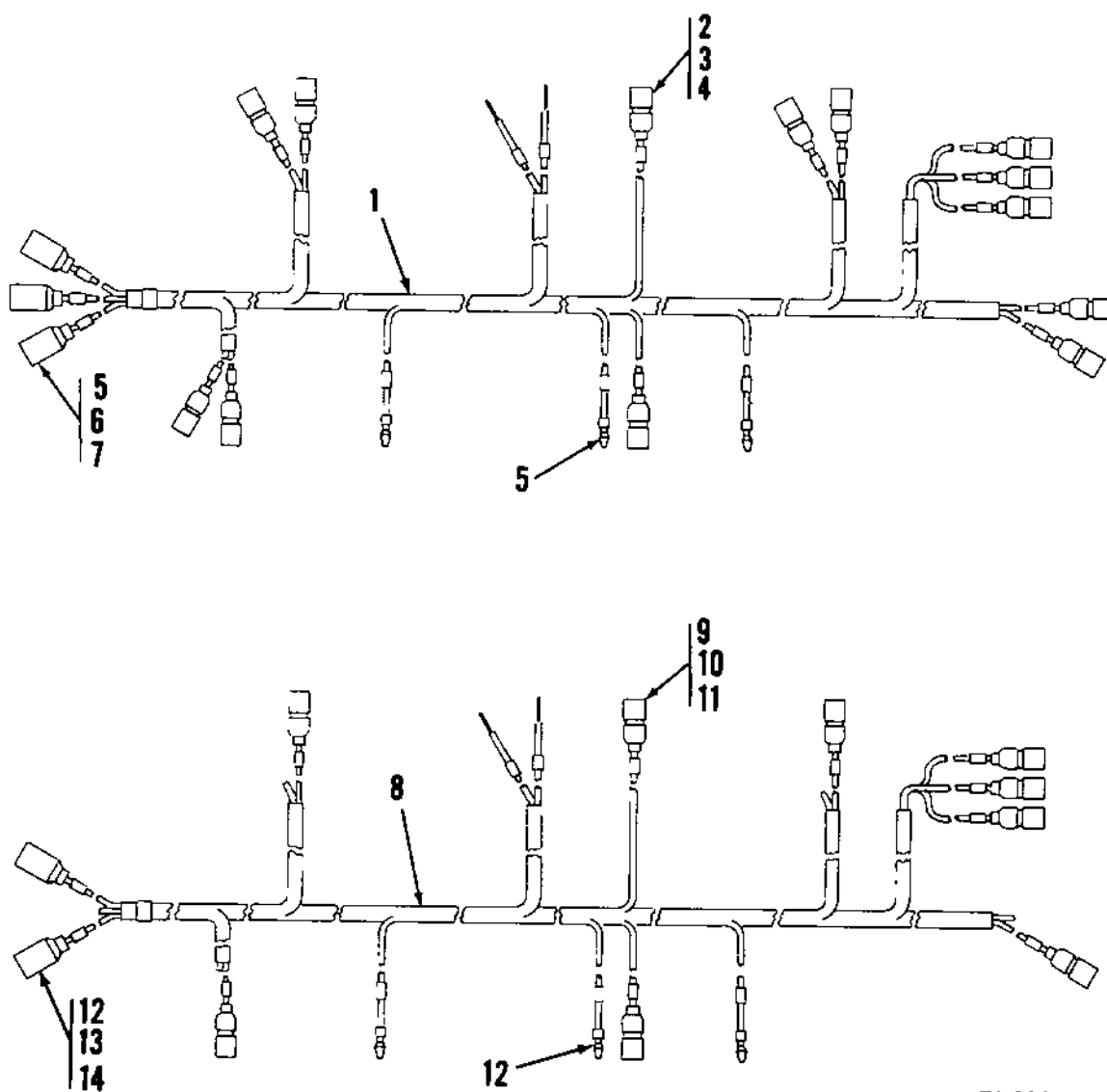


Figure 20. Wiring harness, roof, XM574,XM574E1,XM680,XM680E1, XM738,XM739,XM739E1,XM822(serial no. S2669).

**TM 9-2330-271-14&P**

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
20	1	MFFZZ		40670	3486925	WIRING HARNESS BRANCHED, ROOF, MANUFACTURED FROM 6145-00-152-6499, 372 FT ..... A09, A14	EA	1
20	2	PAOZZ	5940-00-050-6209	21450	506209	.TERMINAL LUG ..... A09, A14	EA	12
20	3	PAOZZ	5935-00-833-8561	19207	8338561	.SHELL, ELECTRICAL CO ..... A09, A14	EA	12
20	4	PAOZZ	5970-00-833-8562	19207	8338562	.INSULATOR, BUSHING ..... A09, A13	EA	12
20	5	PAOZZ	5940-00-846-5012	19207	8338563	.FERRULE, ELECTRICAL ..... A09, A14	EA	12
20	6	PAOZZ	5935-00-572-9180	19207	8338566	.SHELL, ELECTRICAL CO ..... A09, A14	EA	3
20	7	PAOZZ	5310-00-833-8567	19207	8338567	.WASHER, SLOTTED ..... A09, A14	EA	3
20	8	PAOZZ	5999-00-057-2929	96906	MS27148-2	.CONTACT, ELECTRICAL ..... A09, A14	EA	3
20	9	MFFZZ		19207	10882275	WIRING HARNESS BRANCHED, ROOF, MANUFACTURED FROM 6145-00-152-6499, 170 FT ..... A12, A13	EA	1
20	9	MFFZZ		19207	11683187	WIRING HARNESS BRANCHED, ROOF, MANUFACTURED FROM 6145-00-152-6499, 170 FT ..... C13	EA	1
20	10	PAOZZ	5935-00-833-8561	19207	8338561	.SHELL, ELECTRICAL CO ..... A12, A13, C13	EA	15
20	11	PAOZZ	5970-00-833-8562	19207	8338562	.INSULATOR, BUSHING ..... A12, A13, C13	EA	15
20	12	PAOZZ	5940-00-399-6676	19207	8338564	.TERMINAL ASSEMBLY ..... A12, A13, C13	EA	15
20	13	PAOZZ	5935-00-572-9180	19207	8338566	.SHELL, ELECTRICAL CO ..... A12, A13, C13	EA	7
20	14	PAOZZ	5935-00-214-0904	19207	7982907	.DUMMY CONNECTOR, PLU ..... A12, A13, C13	EA	4
20	15	PAOZZ	5999-00-057-2929	96906	MS27148-2	.CONTACT, ELECTRICAL ..... A12, A13, C13	EA	6
20	16	PAOZZ	5310-00-833-8567	19207	8338567	.WASHER, SLOTTED ..... A12, A13, C13	EA	3
20	17	MFFZZ		40670	9772900	WIRING HARNESS BRANCHED, ROOF, MANUFACTURED FROM 6145-00-152-6499, 204 FT ..... A11, 140, 26F	EA	1
20	18	PAOZZ	5935-00-833-8561	19207	8338561	.SHELL, ELECTRICAL CO ..... A11, 140, 26F	EA	15
20	19	PAOZZ	5970-00-833-8562	19207	8338562	.INSULATOR, BUSHING ..... A11, 140, 26F	EA	15
20	20	PAOZZ	5940-00-846-5012	19207	8338563	.FERRULE, ELECTRICAL ..... A11, 140, 26F	EA	15
20	21	PAOZZ	5999-00-057-2929	96906	MS27148-2	.CONTACT, ELECTRICAL ..... A11, 140, 26F	EA	6
20	22	PAOZZ	5935-00-572-9180	19207	8338566	.SHELL, ELECTRICAL CO ..... A11, 140, 26F	EA	3
20	23	PAOZZ	5310-00-833-8567	19207	8338567	.WASHER, SLOTTED ..... A11, 140, 26F	EA	3





TA 096442

Figure 21. Wiring harness, roof, XM844,XM845,XM847,XM848,XM849,XM850.

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
21	1	MFFZZ		19207	11684318	WIRING HARNESS BRANCHED, ROOF, MANUFACTURED FROM 6145-00-152-6499, 188FT..... C16, C17, C18	EA	1
21	1	MFFZZ		19207	11684314	WIRING HARNESS BRANCHED, ROOF, MANUFACTURED FROM 6145-00-152-6499, 220 FT ..... C19	EA	1
21	2	PAOZZ	5935-00-833-8561	19207	8338561	.SHELL ELECTRICAL ..... C16, C17, C18, C19	EA	13
21	3	PAOZZ	5970-00-833-8562	19207	8338562	.INSULATOR, BUSHING ..... C16, C17, C18, C19	EA	13
21	4	PAOZZ	5940-00-846-5012	19207	8338563	.FERRULE, ELECTRICAL ..... C16, C17, C18, C19	EA	13
2	5	PAOZZ	5999-00-057-2929	96906	MS27148-2	.CONTACT, ELECTRICAL..... C16, C17, C18, C19	EA	6
21	6	PAOZZ	5935-00-572-9180	19207	8338566	.SHELL ELECTRICAL ..... C16, C17, C18, C19	EA	3
21	7	PAOZZ	5310-00-833-8567	19207	8338567	.WASHER, SLOTTED ..... C16, C17, C18, C19	EA	3
21	8	MFFZZ		19207	11681234	WIRING HARNESS BRANCHED, ROOF, MANUFACTURED FROM 6145-00-152-6499-196 FT..... C14, C15	EA	1
21	9	PAOZZ	5935-00-833-8561	19207	8338561	.SHELL, ELECTRICAL CO ..... C14, C15	EA	9
21	10	PAOZZ	5970-00-833-8562	19207	8338562	.INSULATOR BUSHING ..... C14, C15	EA	9
21	11	PAOZZ	5940-00-846-5012	19207	8338563	.FERRULE ELECTRICAL ..... C14, C15	EA	9
21	12	PAOZZ	5999-00-057-2929	96906	MS27148-2	.CONTACT, ELECTRICAL..... C14, C15	EA	5
21	13	PAOZZ	5935-00-572-9180	19207	8338566	.SHELL ELECTRICAL ..... C14, C15	EA	2
21	14	PAOZZ	5310-00-833-8567	19207	8338567	.WASHER SLOTTED ..... C14, C15	EA	2

E-53

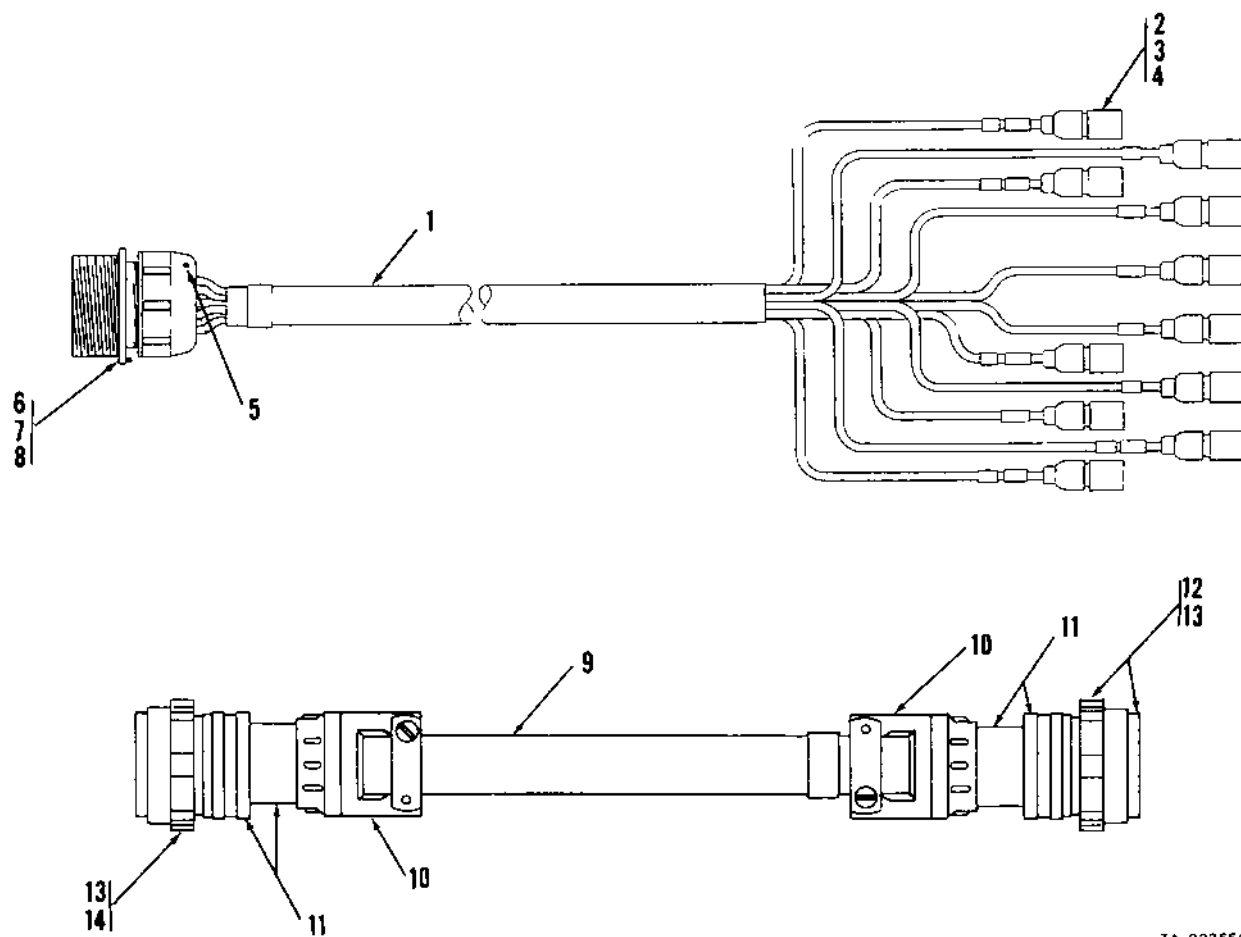


Figure 22. Main dolly harness and interconnecting cable assembly, XM822, XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913.

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
22	1	XDFFF	2590-00-432-1339	19207	11681260	WIRING,HARNESS MAIN DOLLY ..... C13, C14, C15, C16, C17, C18, C19, C61, C62.....	EA	1
22	2	PAOZZ	5935-00-833-8561	19207	8338561	.SHELL ELECTRICAL ..... C13,C14,C15, C16, C17, C18, C19, C61, C62 .....	EA	11
22	3	PAOZZ	59700-833-8562	19207	8338562	.INSULATOR, BUSHING ..... C13, C14, C15 C16, C17, C18, C19, C61, C62.....	EA	11
22	4	PAOZZ	5940-00-846-5012	19207	8338563	.FERRULE, ELECTRICAL ..... C13,C114,C15, C16 C17, C18, C19, C61, C62 .....	EA	11
22	5	PAOZZ	9390-00-180-7289	19207	8724763	.NONNMETALLIC ROD ..... C13,C14,C15,C16, C17, C18, C19, C61,C62 .....	EA	1
22	6	PAOZZ	5935-00-771-6793	19207	7716793	.CONNECTOR, RECEPTACL..... C13, C14 C15, C16, C17, C18, C19, C61, C62 .....	EA	1
22	7	PAOZZ	5310-0-393-6685	72869	7723309	.NUT, BUSHING ..... C13, C14 ,C15 C16, C17, C18, C19, C61, C62.....	EA	1
22	8	PAOZZ	5365-00-090-5426	19207	7722333	.BUSHING RUBBER..... C13, C14, C15 C16, C17, C18, C19, C61, C62.....	EA	1
22	9	MFFZZ		19207	11684315	CABLE ASSEMBLY INTERCOMEICTING, MANUFACTUR- ED FROM 6145-00-805-3384, 33 FT ... C13, C14, C15 C16, C17, C18, C19, C61, C62	EA	1
22	10	XOOZZ		19207	11668011	CLAMP ASSEMBLY ..... C13, CI4, C15, C16, C17, C18, C19, C61, 62	EA	2
22	11	X00ZZ		19207	11668010	ADAPTER, CABLE CLAMP ..... C13, C14, C15, C16, C17, C18, C19, C61, C62	EA	2
22	12	PAOZZ	5935-00-686-2599	19207	874258	.CONNECTOR, PLUG C13, C14, C15, C16, C17, C18 C19, C61, C62	EA	1
22	13	PAOZZ	5975-00-771-6634	19207	7716634	.NUT.COUPLING..... C13, C14, C15, C16, C17, C18 C19, C61, C62	EA	2
22	14	PAOZZ	5935-00-754-9083	19207	8724257	.CONNECTOR, PLUG, ELEC..... C13, C14, C15, C16, .C17, C18, C19, C61, C62	EA	1

E-55

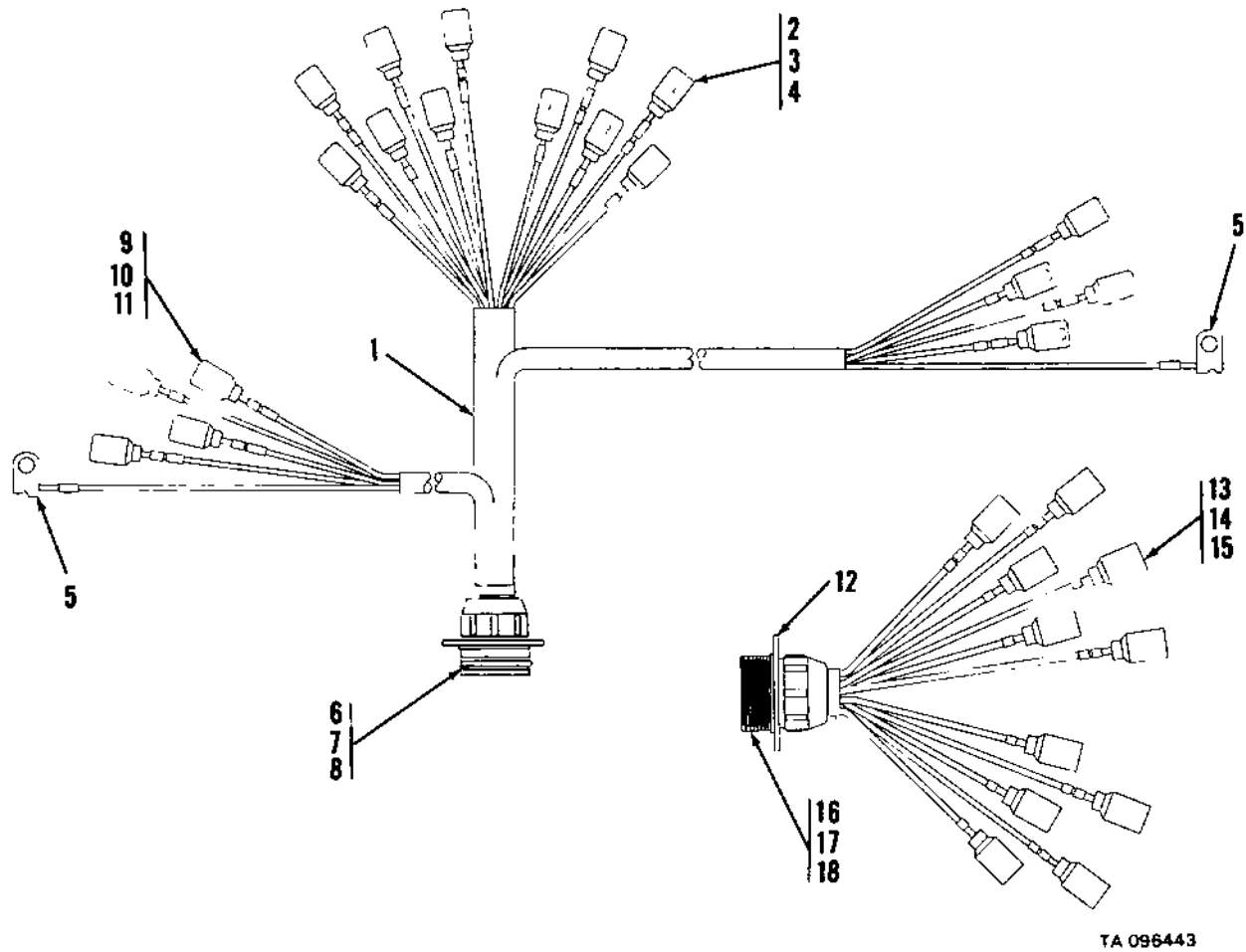
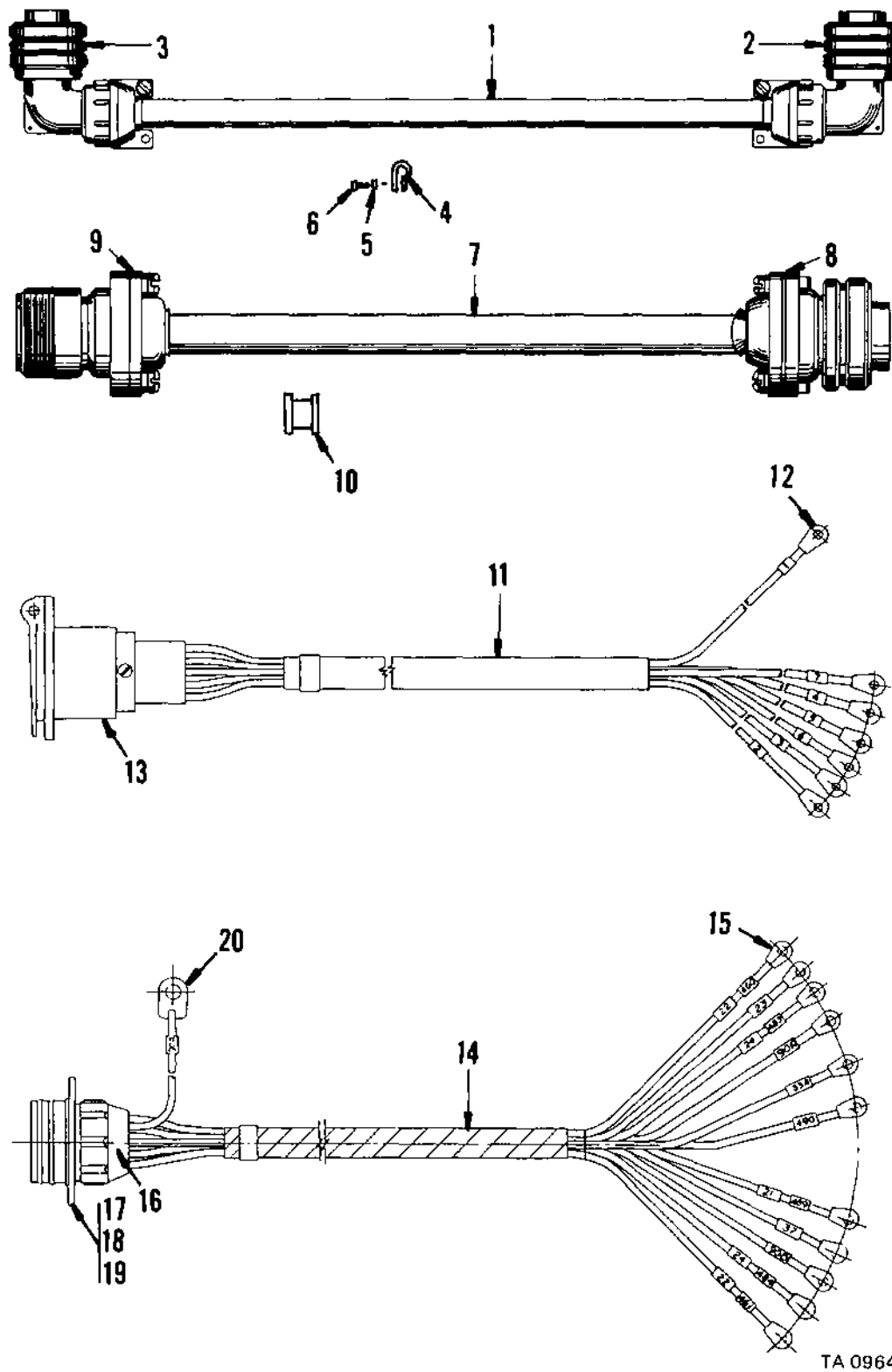


Figure 23. Wiring harness, dolly taillights and electrical lead assembly, XM822, XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913.

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
23	1	MFFZZ		19207	11684316	WIRING HARNESS BRANCHED, DOLLY TAILLIGHTS, MFD FROM 6145-00-152-6499, 50 FT. C13, C14, C15, C16 C17, C18, C19, C61, C62	EA	1
23	2	PAOZZ	5935-00-572-9180	19207	8338566	.SHELL ELECTRICAL C13, C14, C15, C16, C17, C18 C19, C61, C62	EA	11
23	3	PAOZZ	5310-00-833-8567	19207	8338567	.WASHER, SLOTTED C13, C14, C15, C16, C17, C18 C19, C61, C62	EA	11
23	4	PAOZZ	5999-00-057-2929	96906	MS27148-2	.CONTACT, ELECTRICAL...C13, C14, C15, C16, C17 C18, C19, C61, C62	EA	11
23	5	PAOZZ		96906	MS35438-8	.TERMINAL, LUG ..... C13, C14, C15, C16, C17, C18, C19, C61, C62	EA	2
23	6	PAOZZ	5935-00-846-3884	19207	8376209	.CONNECTOR, RECEPTACL.....C13, C14, C15, C16 C17, C18, C19, C61, C62	EA	1
23	7	PAOZZ	5365-00-090-5426	19207	7722333	.BUSHING RUBBER... C13, C14, C15, C16, C17, C18 C19, C61, C62	EA	1
23	8	PAOZZ	5310-00-393-6685	72869	7723309	.NUT, BUSHING .C13, C14, C15, C16, C17, C18, C19 C61, C62	EA	1
23	9	PAOZZ	5935-00-833-8561	19207	8338561	.SHELL ELECTRICAL C13, C14, C15, C16, C17, C18 C19, C61, C62	EA	8
23	10	PAOZZ	5970-00-833-8562	19207	8338562	.INSULATOR, BUSHING .....C13, C14, C15, C16, C17 C18, C19, C61, C62	EA	8
23	11	PAOZZ	5940-00-846-5012	19207	8338563	.FERRULE, ELECTRICAL .... C13, 14, C15, C16, C17, C18, C19, C61, C62	EA	8
23	12	MFFZZ		19207	11681237	LEAD ASSY, ELEC MANUFACTURED FORM 6145-00-152-6499, 7 FT38, WIRE ML3486-1-5 (6.5FT)....C13, C14, C15, C16, C17, C18, C19, C61, C62	EA	1
23	12	PFFFF	2590-00-678-6124	19207	8747246	LEAS ASSY ..... A09, A11, A12, A13, A14, C58, C59 140, 26F	EA	1
23	13	PAOZZ	5935-00-572-9180	19207	8338566	.SHELL, ELECTRICAL CO .. A09, A11, A12, A13, A14 C13, C14, C15, C16, C17, C18, C19, C58, C59, C61, C62, 140, 26F	EA	11
23	14	PAOZZ	5310-00-833-8567	19207	8338567	.WASHER, SLOTTED A09, A11, A12, A13, A14, C13, C14, C15, C16, C17, C18, C19, C58, C59, C61, C62, 140, 26F	EA	11
23	15	PAOZZ	5999-00-057-2929	96906	MS27148-2	.CONTACT, ELECTRICAL.. A09, A11, A12, A13, A14, C13, C14, C15, C16, C17, C18, C19, C58, C59, C61, C62 140, 26F	EA	11
23	16	PAOZZ	5935-00-846-3884	96906	MS75021-2	.CONNECTOR, RECEPTACL.....A09, A11, A12, A13, A14, C13, C14, C15, C16, C17, C18, C19, C58, C59, C61, C62, 140, 26F	EA	1
23	16	PAOZZ	5935-00-771-6794	19207	7716794	.CONNECTOR... A09, A11, A12, A13, A14, C13, C14, C15, C16, C17, C18, C19, C58, C59, C61, C62, 140, 26F	EA	1
23	17	PAOZZ	5365-00-090-5426	19207	7722333	.BUSHING, RUBBER...A09, A11, A12, A13, A14, C13 C14, C15, C16, C17, C18, C19, C58, C59, C61, C62, 140, 26F	EA	1
23	18	PAOZZ	5310-00-393-6685	72869	7723309	.NUT, BUSHING .A09, A10, A11, A12, A13, A14, C13, C14, C15, C16, C17, C18, C19, C61, C62, 140, 26F	EA	1



TA 096444

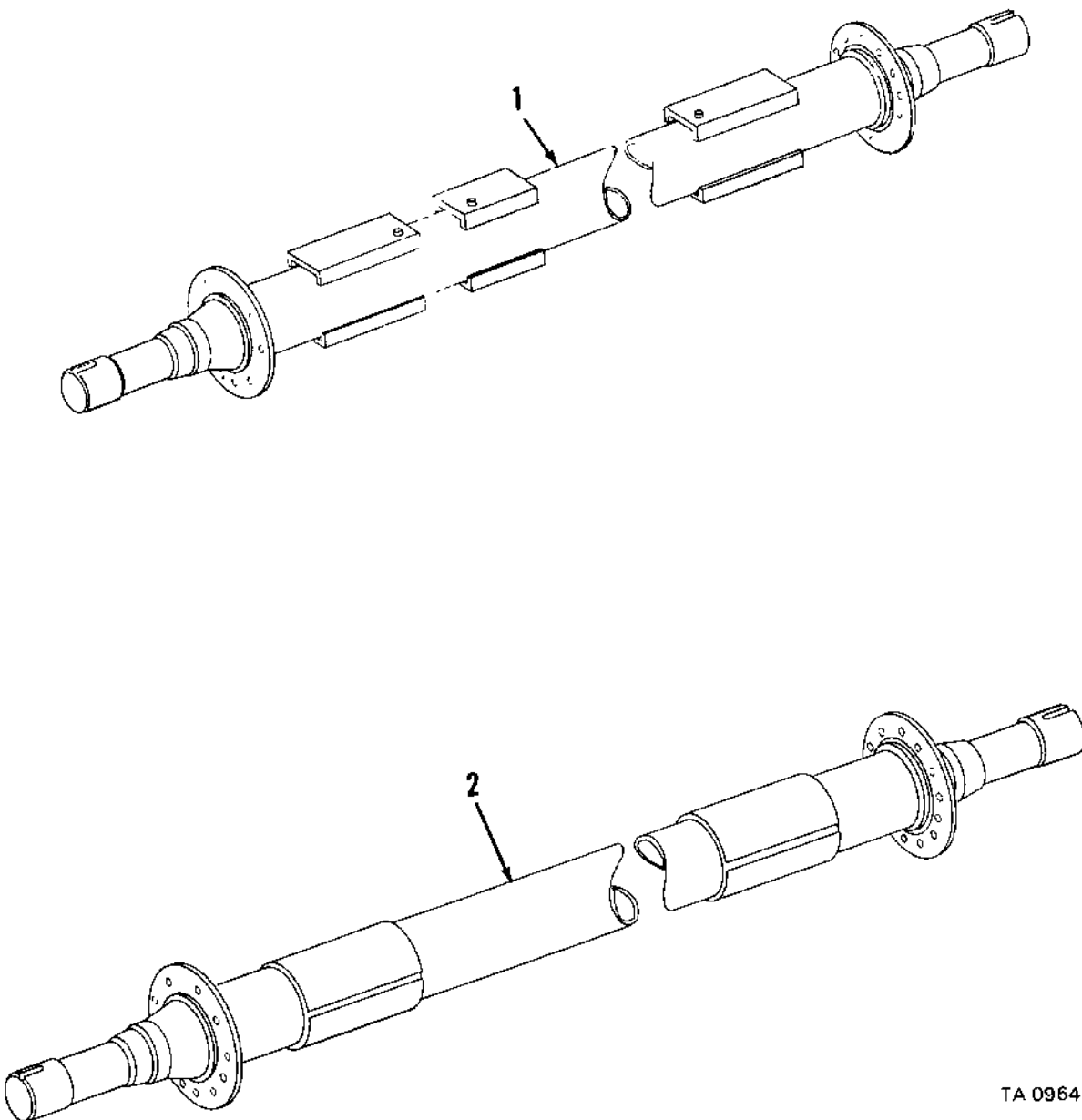
Figure 24. Cable assembly, air conditioner, XM680, XM680E1;  
front wiring harness, XM654.

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
24	1	PAOZZ	2590-00-920-7547	40670	3486942	CABLE ASSEMBLY AIR CONDITIONER POWER..... A09 A14	EA	1
24	2	PAOZZ	5935-00-845-4517	96906	MS3108R22	.CONNECTOR, PLUG, ELEC..... A09, A14	EA	1
24	3	PAOZZ	5935-00-845-1141	96906	MS3108R22-22P	.CONNECTOR..... A09, A14	EA	1
24	4	PAOZZ	5340-00-597-6153	96906	MS21919F12	CLAMP, LOOP ..... A09, A14	EA	4
24	4	PAOZZ	5340-00-282-8335	96906	MS21919F8	CLAMP, LOOP ..... A09, A14	EA	4
24	5	PAOZZ	5310-00-045-3296	96906	MS35338-43	WASHER, LOCK ..... A09, A14	EA	8
24	6	PAOZZ	5305-00-432-4205	96906	MS51861-49	SCREW, TAPPING, THREA..... A09, A14	EA	8
24	7	PAOZZ	2920-00-939-7089	40670	3486943	CABLE ASSEMBLY REMOTE, AIR CTIR CODITIONER A09 A14	EA	1
24	8	PAOZZ		96906	MS3101R22-14S	.CONNECTOR, PLUG ..... A09, A14	EA	1
24	9	PAOZZ	5935-00-752-3099	96906	MS3101R22-14P	.CONNECTOR, PLUG, ELEC..... A09, A14	EA	1
24	10	PAOZZ	5325-00-270-8890	70485	2276	GROMMET, NONMETALLIC..... A09, A14	EA	6
24	11	MFFZZ		40670	3670914	WIRING HARNESS FRONT, 12 VOLTS, MANUFACTURED FROM 6145-0-152-6499, 63 FT..... A10	EA	1
24	12	PAOZZ	5940-00-534-0991	96906	MS35436-6	.TERMINAL, LUG ..... A10	EA	7
24	13	XBOZZ	5935-01-092-4121	40670	3296986	.CONNECTOR, RECEPTACL..... A10	EA	1
24	14	MFFZZ		40670	3670913	WIRING HARNESS FRONT, 24 VOLTS, MANUFACTURED FROM 6145-00-152-6499, 113 FT..... A10	EA	1
24	15	PAOZZ	5940-00-534-0991	96906	MS35436-6	.TERMINAL, LUG ..... A10	EA	11
24	16	PAOZZ	9390-00-180-7289	19207	8724763	.NONMETALLIC ROD..... A10	EA	1
24	17	PAOZZ	5935-00-846-3883	19207	8376208	.CONNECTOR, RECEPTACL..... A10	EA	1
24	18	PAOZZ	5365-00-393-5426	19207	7722333	.BUSHING, RUBBER..... A10	EA	1
24	19	PAOZZ	5310-00-393-6685	19207	7723309	.NUT, PLAIN, KNURLED ..... A10	EA	1
24	20	PAOZZ	5940-00-050-6209	21450	506209	.TERMINAL, LUG ..... A10	EA	1





TA 096476

Figure 25. Rear axle assembly.

## SECTION II

**TM 9-2330-271-14&P**

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
25	1	PAFZZ	2530-00-690-2669	19207	10869564	GROUP 11 REAR AXLE GROUP 1100 REAR AXLE ASSEMBLY	EA	2
25	2	PAFZZ	2530-01-083-5600	19207	11684320	AXLE, VEHICULAR NON DRIVING.....A09, A10, A11, A12, A13, A14, C13, C58, C59, 140, 26F AXLE, VEHICULAR SEMITRAILER VAN ....C14, C15, C16, C17, C18, C19, C61, C62	EA	2

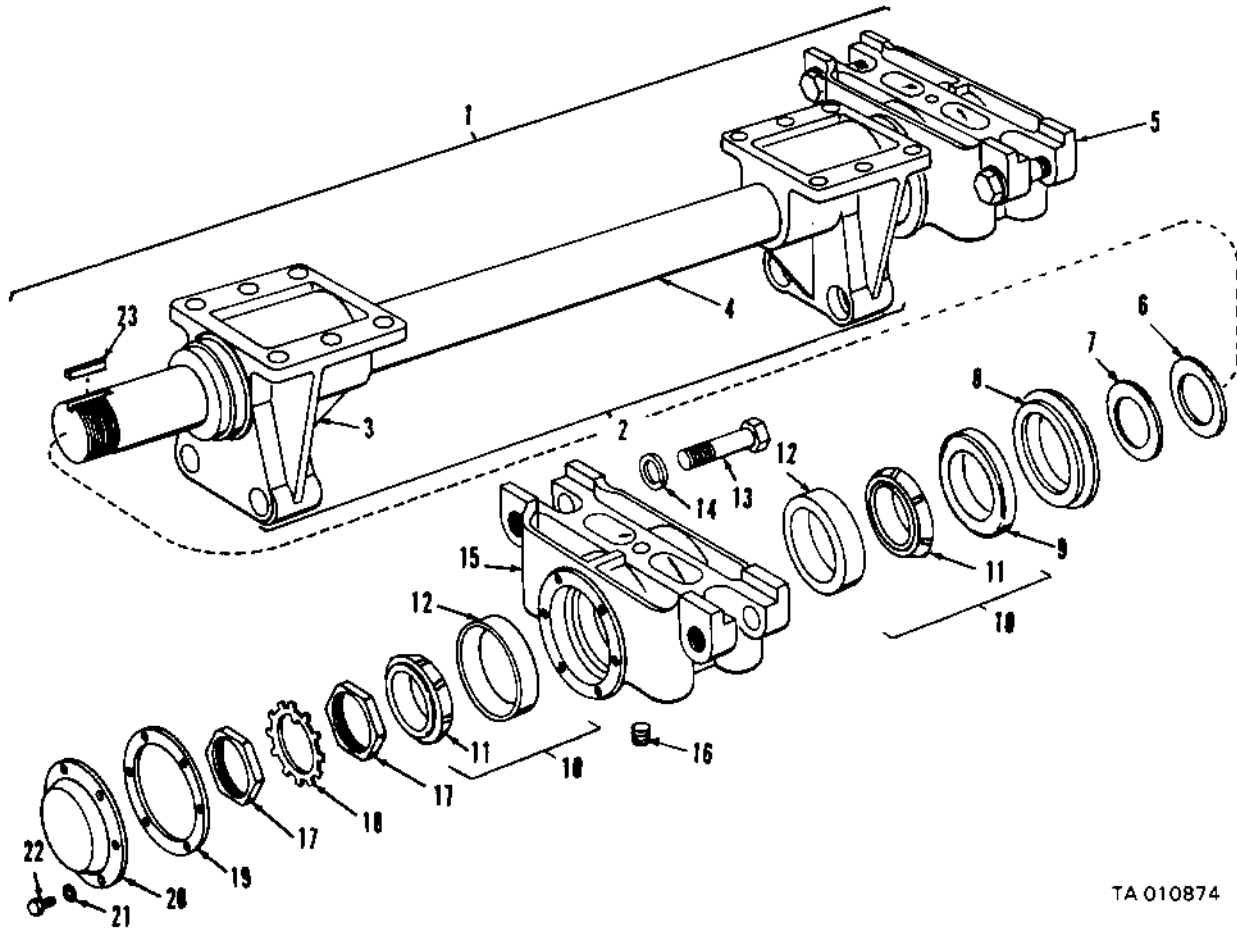


Figure 26. Axle and bracket assembly, XM574,XM574E1,XM654,XM680,XM680E1,XM738,XM739,XM739E1,XM822,XM823,XM824.

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
26	1	PBFZZ	1440-00-133-9471	19207	10896741	BRACKET ASSEMBLY, AX. A09, A10, A11, A12, A13 A14, C13, C58, C59, 140, 26F	EA	1
26	2	PBFZZ	2510-00-177-7788	19207	7700126	.BRACKET, SPRING AXLE. A09, A10, A11, A12, A13 A14, C13, C58, C59, 140, 26F	EA	1
26	3	PBFZZ	2530-01-089-9132	19207	7700125	.BRACKET, AXLE ASSEMB.....A09, A10, A11, A12 A13, A14, C13, C58, C59, 140, 26F	EA	2
26	4	XAFZZ		19207	7700125	.BAR ..... A09, A10, A11, A12, A13, A14, C13, C58 C59, 140, 26F	EA	1
26	5	PBFZZ	2510-00-752-1645	19207	7521645	.SEAT ASSEMBLY, SPRIN. A09, A10, A11, A12, A13 A14, C13, C58, C59, 140, 26F	EA	2
26	6	PAOZZ	5310-00-693-0622	19207	7521643	.WASHER, FLAT. A09, A10, A11, A12, A13, A14, C13 C58, C59, 140, 26F	EA	2
26	7	PAOZZ	5310-00-693-0623	19207	7521646	.WASHER, FLAT. A09, A10, A11, A12, A13, A14, C13 C58, C59, 140, 26F	EA	2
26	8	PAOZZ	5330-00-693-0624	19207	7521647	.RETAINER, PACKING..... A09, A10, A11, A12, A13, A14, C13, C58, C59, 140, 26F	EA	2
26	9	P0AZZ	5330-00-891-7826	19207	10896684	.SEAL, PLAIN ENCASED ... A09, A10, A11, A12, A13, A14, C13, C58, C59, 140, 26F	EA	2
26	10	PAOZZ	3120-00-105-9923	19207	11609331	.BEARING, SLEEVE... A09, A10, A11, A12, A13, A14, C13, C58, C59, 140, 26F	EA	4
26	11	PAOZZ	3120-00-105-9923	19207	11609331	.BEARING, SLEEVE... A09, A10, A11, A12, A13, A13 A14, C13, C58, C59, 140, 26F	EA	2
26	12	PAOZZ	3110-00-198-0014	19207	11609419	.BEARING, CUP, SPRING. A09, A10, A11, A12, A13 A14, C13, C58, C59, 140, 26F	EA	2
26	13	PAOZZ	5306-00-752-1642	19207	7521642	.BOLT, MACHINE ..... A09, A10, A11, A12, A13, A14, C13, C58, C59, 140, 26F	EA	2
26	14	PAOZZ	5310-00-754-2005	96906	MS35338-52	.WASHER, LOCK ..... A09, A10, A11, A12, A12, A13, A14, C13, C58, C59, 140, 26F	EA	2
26	15	PAOZZ	2510-00-037-4972	19207	87577112	.SEAT, SPRING ASSEMBL. A09, A10, A11, A12, A13, A14, C13, C58, C59 140, 26F	EA	2
26	16	PAOZZ	4730-00-018-9566	15434	S911B	.PLUG, PIPE ..... A09, A10, A11, A12, A13, A14, C13, C58, C59, 140, 26F	EA	1
26	17	PAOZZ	5310-00-220-2665	19207	10896720	.NUT, PLAIN, HEXAGON ... A09, A10, A11, A12, A13, A14, C13, C58, C59, 140, 26F	EA	4
26	18	PAOZZ	5310-00-752-1650	19207	10896695	.WASHER, KEY...A09, A10, A11, A12, A13, A14, C13 C58, C59, 140, 26F	EA	2
26	19	PAOZZ	5330-00-752-1648	19207	7521648	.GASKET ..... A09, A10, A11, A12, A13, A14, C13, C58 C59, 140, 26F	EA	2
26	20	PAOZZ	2510-00-752-1640	19207	7521640	.COVER, ACCESS ..... A09, A10, A11, A12, A13, A14, C13, C58, C59, 140, 26F	EA	2
26	21	PAOZZ	5310-00-407-9566	96906	MS535338-45	.WASHER, LOCKR..... A09, A10, A11, A12, A13, A14 C13, C58, C59, 140, 26F	EA	12
26	22	PAOZZ	5306-00-225-8496	96906	MS90725-31	.BOLT, MACHINE ..... A09, A10, A11, A12, A13, A13, A14, C58, C59, 140, 26F	EA	12
26	23	PAOZZ	5315-00-225-8496	96906	MS20066-231	.KEY, MACHINE ..A09, A10, A11, A12, A12, A14, C13 C58, C59, 140, 26F	EA	2

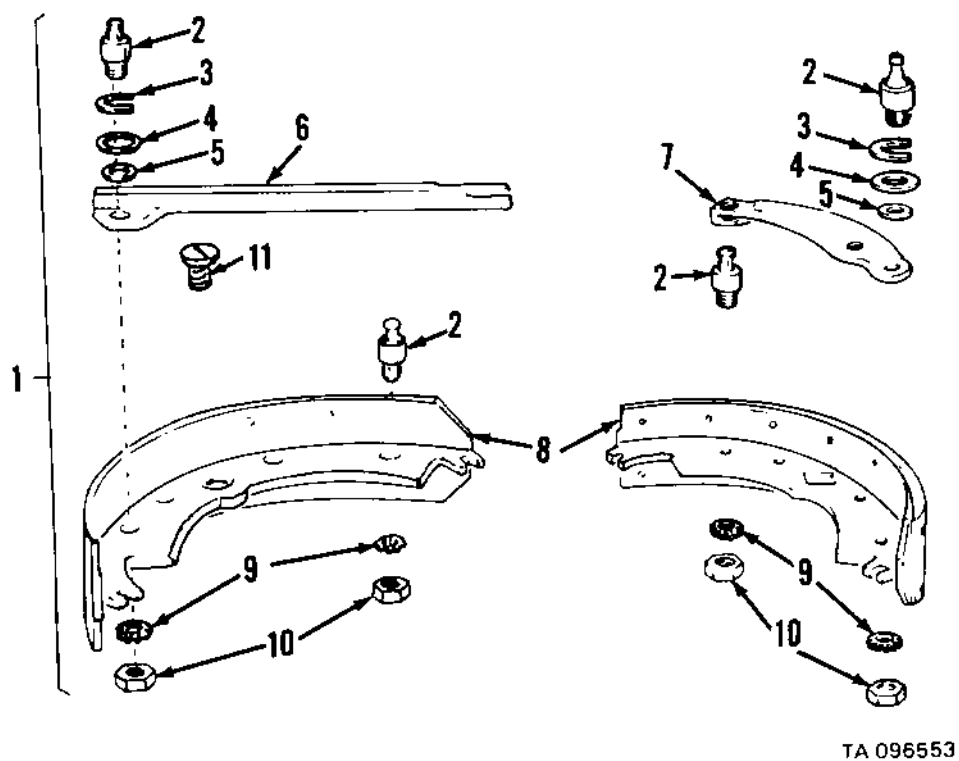
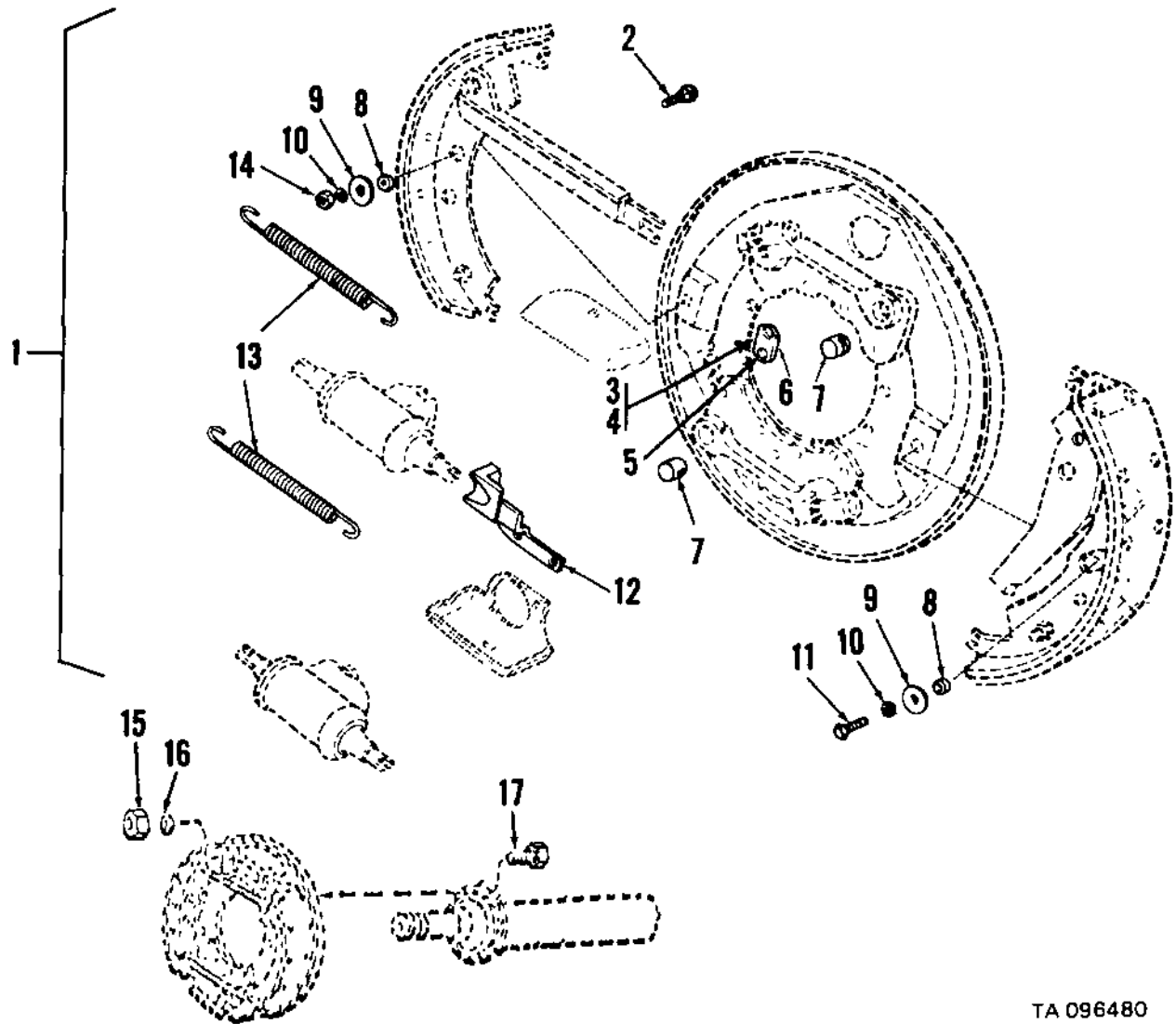


Figure 27. Brake shoe and related parts.

## SECTION II

TM 9-2330-271-14&P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 12 BRAKES GROUP 1202 SERVICE BRAKES		
27	1	PAOZZ	2530-00-774-9401	19207	8733894	BRAKE SHOE FRONT LEFT BRAKE.....	EA	2
27	1	PAOFF	2530-00-774-9402	19207	8733895	BRAKE SHOE FRONT RIGHT BRAKE .....	EA	2
27	2	PAOZZ	2530-00-322-7261	19207	8733938	.PIN, SEVICE BRAKE .....	EA	2
27	3	PAOZZ	5310-00-322-7260	19207	8733937	.WASHER, SLOTTED .....	EA	1
27	4	PAOZZ	5310-00-314-0765	19207	8733936	.WASHER, FLAT .....	EA	1
27	5	PAOZZ	5310-00-314-0764	19207	8733935	.WASHER, SPRING .....	EA	1
27	6	PAOZZ	3040-00-150-7127	19207	8733926	.CONNECTING LINK BRAKE SHOE, LEFT HAND .....	EA	2
27	6	PAOZZ	2530-00-074-2357	19207	8733927	.LINK, RIGHT HAND BRAKE SHOE, RIGHT HANO .....	EA	2
27	7	PAOZZ	2530-00-973-2355	19207	8733911	.LEVER, LEFT HAND BRAKE SHOE, LEFT HAND.....	EA	2
27	7	PAOZZ	2530-00-973-2356	19207	8733912	.LEVER, RIGHT HAND BRAKE SHOE, RIGHT HAND .....	EA	2
27	8	PAOFF	2530-00-693-1007	19207	7064978	.BRAKE SHOE .....	EA	1
27	9	PAOZZ	5310-00-550-3503	96906	MS35335-36	.WASHER, LOCK .....	EA	2
27	10	PAOZZ	5310-00-903-3993	96906	MS51970-4	.NUT, PLAIN, HEXAGON .....	EA	2
27	11	PAOZZ	5305-00-801-5747	96906	MS35308-364	.SCREW, CAP, HEXAGON .....	EA	2
E-65								



TA 096480

*Figure 28. Service brake attaching parts.*

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
28	1	PAOZZ	2530-00-730-7620	19207	83316701	BRAKESHOE TYPE LEFT HAND SERVICE AKE .....	EA	2
28	1	PAOFF	2530-00-730-7621	19207	8336702	BRAKE, SHOE TYPE RIGHT HAND SERVICEBRAKE	EA	2
28	2	PAOZZ	5306-00-741-1760	19207	7411760	BOLT. SQUARE NECK .....	EA	1
20	3	PAOZZ	5310-00-761-1882	96906	MS51967-2	NUT, PLAIN., HEXAGON .....	EA	4
28	4	PAOZZ	5310-00-582-5965	16906	MS35338-44	WASHER, LOCK .....	EA	4
28	5	PAOZZ	2530-00-991-4342	19207	8733890	BRACKET, CABLE GUIDE LEFT HAND .....	EA	
28	5	PAOZZ	2530-00-987-2565	19207	8133891	BRACKET.CABLE GUIDE RIGHT HAND .....	EA	1
28	6	PAOZZ	1450-00-177-3264	19207	8735729	COVER, ACCESS .....	EA	1
28	7	PAOZZ	5315-00-741-2106	63477	FC12088	PIN, STRAIGHT EADLE .....	EA	2
28	8	PALZZ	5365-00-741-2103	19207	7412103	SPACERSLEEVE .....	EA	2
28	9	PAOZZ	5310-00-141-8939	19207	5323088	WASHER, FLAT .....	EA	2
28	10	PAOZZ	5310-00-582-5965	96906	MS3533S-4	WASHER.LOCK .....	EA	2
28	12	PAOZZ	2530-00-522-1157	19207	8733892	RAMP .....	EA	1
28	12	PAOZZ	2310-00-794-1763	19207	8733893	RAMP.RAKE CABLE .....	EA	
28	13	PAOZZ	5360-00-699-9018	19207	8720515	SPRING.HELICAL. ....	EA	2
28	14	PAOZZ	5310-00-92-4218	96906	MS51970-1	NUT, PLAIN .....	EA	4
20	15	PAOZZ	5310-00-732-0559	96906	MS51968-8	NUT PLAIN. HEXAGO.A09, A10, A11, A12, A13, A14, C13,C58, EA48		
						..... C59, 140, 26F		
28	15	PAOZZ	310-00-732-Q5S	68906	MS51968-8	NUT , PLAIN, HEXAGONC14, C15, C16, C17, C18.C19,	EA	32
						..... C61, C62		
28	16	PAOCZZ	310-00-627-6128	16906	MS35335-21	WASHER, LOCK .....	EA	48
						..... C59, 140, 26F		
28	17	PAZLZ	S305-00-26-28O07	96906	MS90726-64	SCREW.CAP.HEXGCON HA09, A10, A11, A12, A13, A14, C13, EA48		
						..... C58, C59, 140, 26F		
28	17	PAOZZ	S305-c0-269-20?	169806	MS90726-64	SCREW.CAP.HEXAGONC14, C15, C16, C17, C18, C19	EA	16
						..... C58, C59, C61, C62		
28	17	PAOZZ	53050-269F2803	96906	MS90726-60	SCREW, CAP, HEXAGONC14, C15, C16, C17, C18, C19	EA	16
						..... C58, C59, C61, C62		

E-67



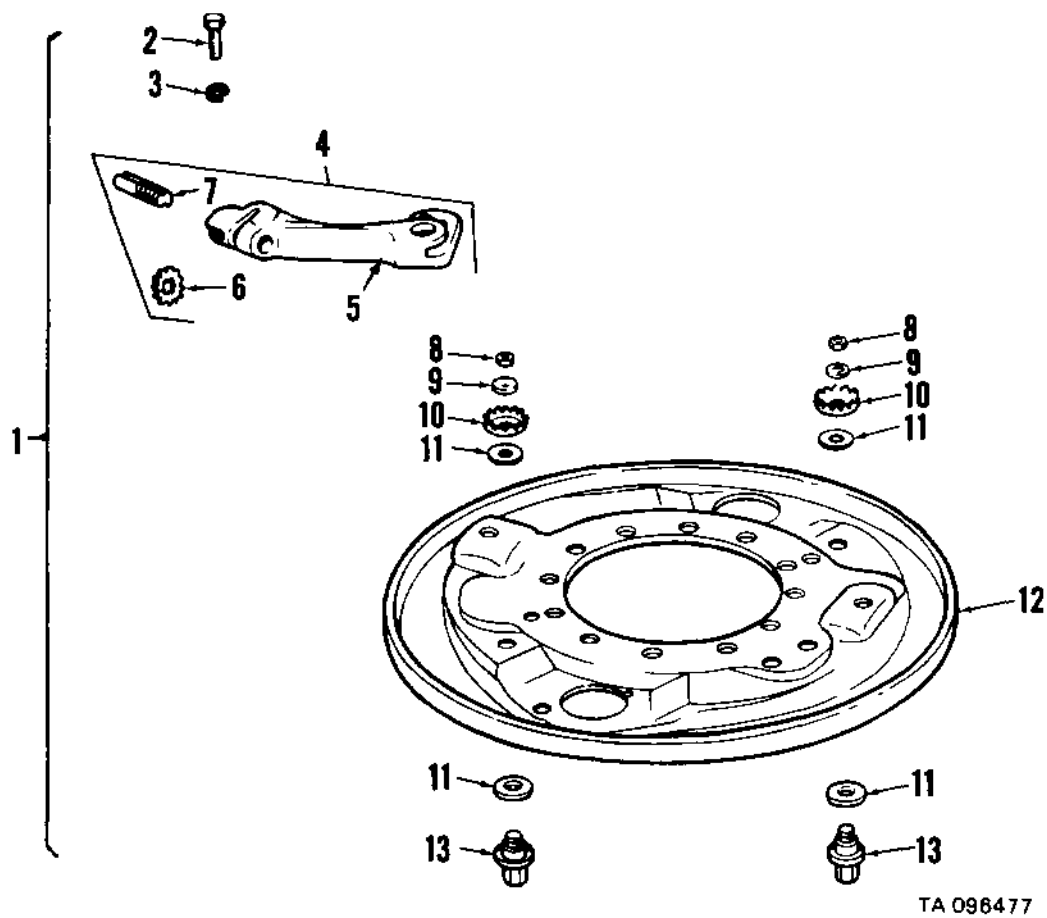


Figure 29. Backing plate assembly.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
29	1	PAOZZ	2350-00-791-3259	19207	8733901	PLATE, BACKING BRAKE LEFT HAND .....	EA	4
29	1	PAOZZ	2350-00-791-0110	19207	8733902	PLATE, BACKING BRAKE RIGHT HAND .....	EA	4
29	2	PAOZZ	5305-00-269-3233	96906	MS90727-57	SCREW, CAP, HEXAGON .....	EA	
29	3	PAOZZ	5310-00-627-6128	96906	MS35335-35	WASHER LOCK .....	EA	
29	4	PAOOO	1440-00-798-4824	19207	8733896	SUPPORT AND ADJUSTE BACKING ASSEMBLY, LEFT	EA	1
29	4	PAOOO	1440-00-798-4812	19207	8733897	SUPPORT AND ADJUSTE BACKING ASSEMBLY, RIGHT	EA	1
29	5	PAOZZ	2530-00-159-8755	19207	8733908	SUPPORT ASSEMBLY .....	EA	1
29	5	PAOZZ	2530-00-159-8756	19207	8733909	SUPPORT ASSEMBLY .....	EA	1
29	6	PAOZZ	2530-00-770-9149	19207	8336704	WHEEL SLACK ADJUSTE .....	EA	1
29	7	PAOZZ	2530-00-770-9150	19207	8336705	SCREW BRAKE SHOE LEFT HAND .....	EA	1
29	7	PAOZZ	2530-00-770-9151	19207	8336789	SCREW BRAKE SHOE RIGHT HAND .....	EA	1
29	8	PAOZZ	5310-00-853-9335	96906	MS35691-13	NUT PLAIN HEXAGON .....	EA	1
29	9	PAOZZ	5310-00-167-0721	96906	MS35333-41	WASHER LOCK .....	EA	1
29	10	PAOZZ	2530-00-741-2104	19207	7412104	GEAR ADJUSTING .....	EA	1
29	11	PAOZZ	5310-00-741-2120	19207	7412120	WASHER FLAT .....	EA	2
29	12	PBOZZ	2530-01-083-5641	19207	8733933	PLATE BACKING BRAKE RIGHT HAND .....	EA	1
29	12	PBOZZ	2530-00-791-3259	78500	A1-3236M1261	PLATE BACKING BRAKE LEFT HAND .....	EA	1
29	13	PAOZZ	1440-00-994-8975	19207	8720331	SPRING AND BOLT .....	EA	1

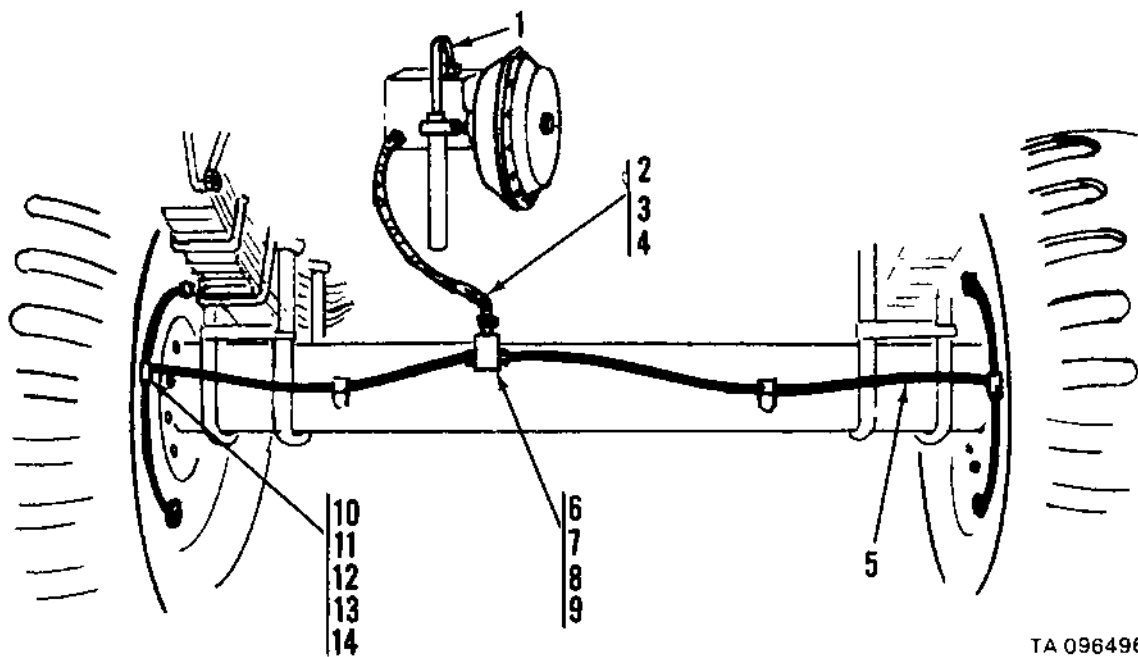


Figure 30. Hydraulic brake system.

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 1204 HYDRAULIC BRAKE SYSTEM		
30	1	PAOZZ	4730-00-854-6931	63477	5156653	ADAPTER STRAIGHT TU .....	EA	2
30	2	PAOZZ	5340-00-897-5921	19207	10869558	CLIP SPRING TENSION .....	EA	2
30	3	PAOZZ	4720-00-389-8245	19207	8407333	HOSE ASSY RUBBER .....	EA	2
30	4	PAOZZ	4710-00-896-9031	19207	8759076	TUBE ASSEMBLY A09, A10, A11, A12, A13, A14, C13, C14, C15	EA	2
2						..... C16, C17, C18, C19, C58, C59, 140, 26F		
30	4	PAOZZ	4710-01-036-1238	19207	11684500	TUBE ASSEMBLY, METAL .....	EA	2
30	5	PBOZZ	4710-00-861-1404	19207	8759079	TUBE ASSEMBLY A09, A10, A11, A12, A13, A14, C13, C14, C15, C16, C17, C18, C19, C58, C59, 140, 26F	EA	2
30	5	PAOZZ	4710-01-083-5636	19207	11684501-1	TUBE ASSEMBLY, METAL .....	EA	2
30	5	PAOZZ	4710-00-861-1405	19207	8759080	TUBE ASSEMBLY, METAL A09, A10, A11, A12, A13, A14, C13, C14, C15, C16, C17, C18, C19, C58, C59, 140, 26F	EA	2
2						.. C14, C15, C16, C17, C18, C19, C58, C59, 140, 26F		
30	5	PAOZZ	4710-01-031-9120	19207	11684501-2	TUBE ASSEMBLY, METAL .....	EA	2
30	6	PAOZZ	5310-00-732-0559	96906	MS51968-8	NUT PLAIN HEXAGON .....	EA	2
30	7	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER LOCK .....	EA	2
30	8	PAOZZ	5305-00-269-2805	96906	MS90726-62	SCREW, CAP, HEXAGON .....	EA	2
30	9	PAOZZ	4730-00-463-1588	19207	5167679	CONNECTOR MULTIPLE .....	EA	2
30	10	PAOZZ	4730-00-729-6437	19207	7412079	BOLT, FLUID, PASSAGE .....	EA	4
30	11	PAOZZ	4730-00-419-9425	19207	7745464	CONNECTOR AIR BRAKE .....	EA	4
30	12	PAOZZ	5365-00-274-4544	19207	5258653	SPACER RING WHEEL CYLINDER OUTER .....	EA	4
30	13	PAOZZ	5310-00-741-2088	19207	7412088	WASHER REAR AXLE WHEEL CYLINDER INNER....	EA	4
30	14	PAOZZ	5310-00-275-6635	19207	5214539	WASHER FLAT .....	EA	2

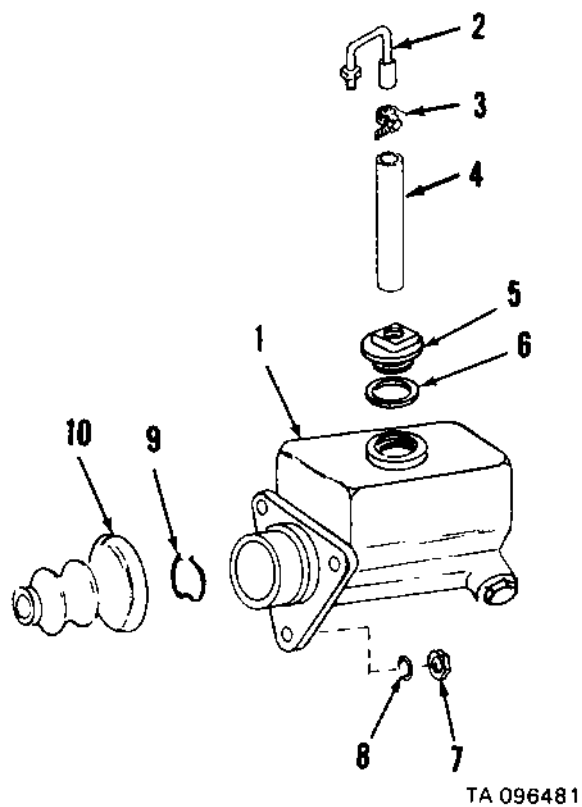
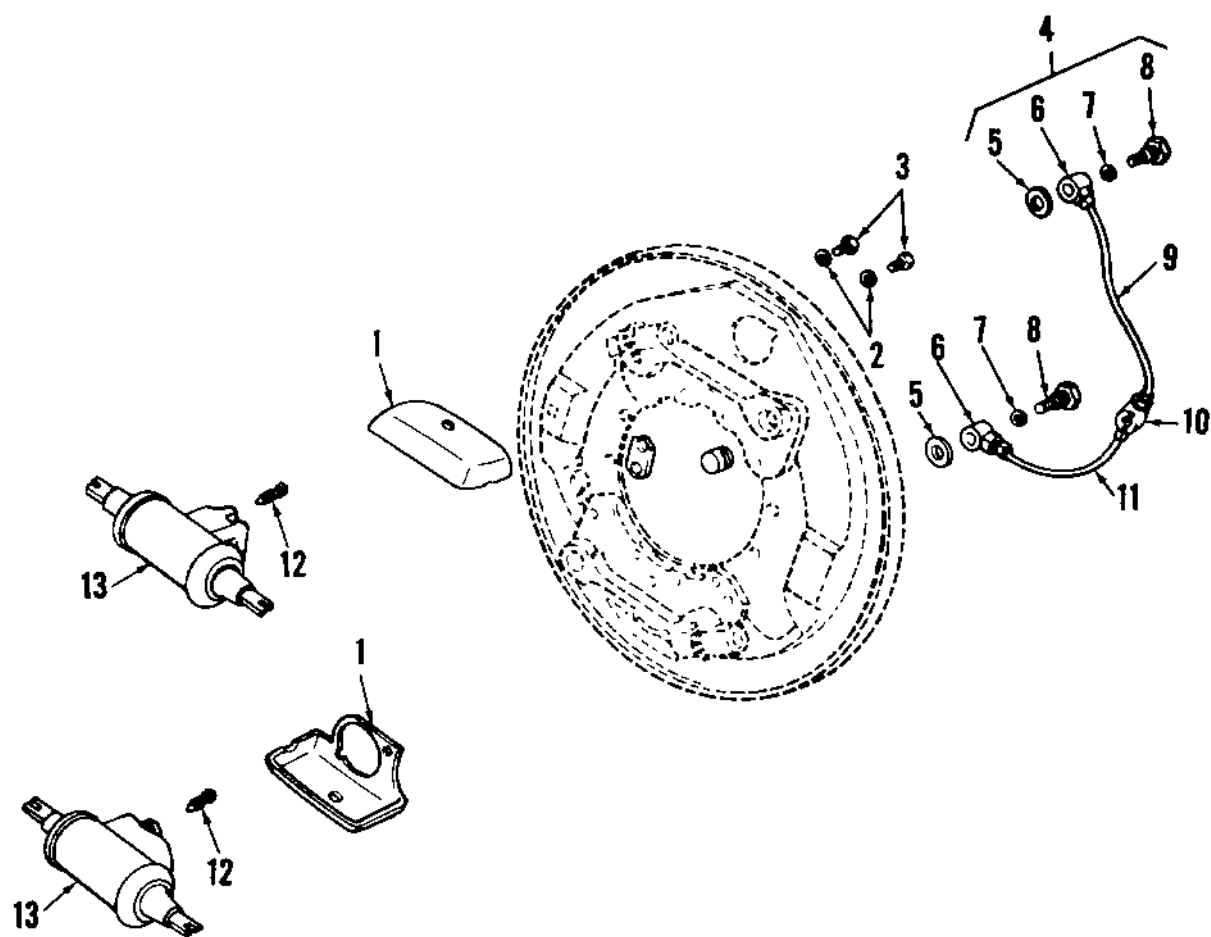


Figure 31. Hydraulic master cylinder.  
E-72

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
31	1	PAOZZ	2350-00-278-2243	19207	8332086	CYLINDER, ASSEMBLY, MASTER.....	EA	2
31	2	PAOZZ	4720-00-809-2750	96906	MS521301A204120	HOSE PREFORMED .....	EA	2
31	3	PAOZZ	4730-00-908-3194	96906	MS35842-11	CLAMP .....	EA	2
31	4	PAOZZ	4710-00-511-1692	19207	8365426	TUBE ASSEMBLY .....	EA	2
31	5	PAOZZ	4730-00-773-2163	63477	7979671	FILLER CAP ASSY .....	EA	2
31	6	PAOZZ	5365-00-737-3354	19207	7373354	SPACER RING .....	EA	2
31	7	PAOZZ	5310-00-732-0559	96906	MS51968-8	NUT PLAIN HEXAGON .....	EA	6
31	8	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER LOCK .....	EA	6
31	9	PAOZZ	5365-00-516-7878	19207	5167878	RING RETAINER.....	EA	2
31	10	PAOZZ	2530-00-753-9308	19207	7539308	BELLOWS PROTECTION .....	EA	2

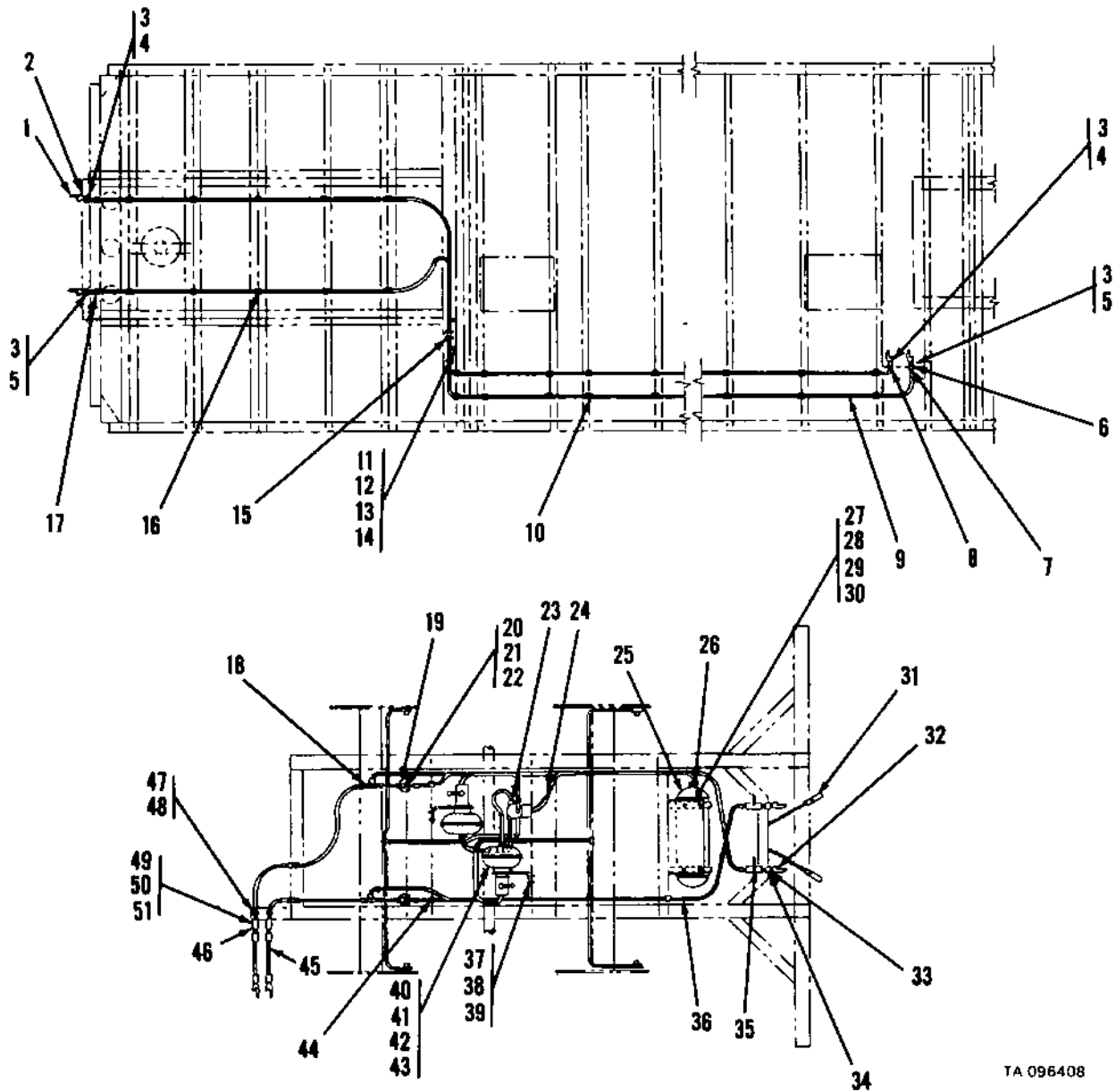


TA 096558

Figure 32. Wheel cylinder and hydraulic tubes.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
32	1	PAOZZ	2530-00-741-2050	19207	8733929	SHIELD BRAKE WHEEL UPPER .....	EA	4
32	1	PAOZZ	2530-00-741-2068	19207		SHIELD BRAKE WHEEL LOWER .....	EA	4
32	2	PAOZZ	5310-00-407-9566	96906		WASHER LOCK .....	EA	16
32	3	PAOZZ	5306-00-225-8496	96906		BOLT MACHINE .....	EA	16
32	4	PAOZZ	4710-00-791-8078	19207		TUBE ASSEMBLY .....	EA	4
32	4	PAOZZ	4710-00-791-8077	19207		TUBE ASSEMBLY .....	EA	4
32	5	PAOZZ	5310-00-741-2088	19207		WASHER REAR AXLE INLET CONNECTOR INNER .	EA	2
32	6	PAOZZ	4730-00-419-9425	19207		CONNECTOR AIR BRAKE .....	EA	2
32	7	PAOZZ	5365-00-274-4544	19207		SPACER RING INLET CONNECTOR OUTER .....	EA	2
32	8	PAOZZ	4730-00-729-6437	19207		BOLT FLUID PASSAGE .....	EA	2
32	9	PBOZZ	4710-00-566-7133	19207		TUBE ASSEMBLY METAL .....	EA	1
32	9	PBOZZ	4710-00-741-1907	19207		TUBE ASSEMBLY METAL .....	EA	1
32	10	PAOZZ	4730-00-741-1903	19207		CROSS TUBE C .....	EA	1
32	11	PBOZZ	4710-00-566-7134	19207		TUBE ASSEMBLY METAL .....	EA	1
32	11	PBOZZ	4710-00-630-9928	19207		TUBE ASSEMBLY METAL .....	EA	1
32	12	PAOZZ	2530-00-287-8252	19207		BLEEDER VALVE .....	EA	1
32	13	PAOZZ	2530-00-741-2065	63477		CYLINDER ASSEMBLY H .....	EA	1
32	13	XDOZZ		19207		CYLINDER ASSEMBLY .....	EA	1





TA 096408

Figure 33. Brake air system, XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824.

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
33	1	PAOZO	4730-00-595-0083	96906	MS35746-1	GROUP 1208 AIR BRAKE SYSTEM		
33	2	PAOZZ	2530-00-270-3878	19207	7014965	COUPLING HALF QUICKA09, A10, A11, A12, A13, A14, C13, C58, C59, 140, 26F	EA	4
33	3	PAOZZ	5320-00-982-3815	96906	MS24662-153	DUMMY COUPLING AUTOA09, A10, A11, A12, A3, A14, C13, C58, C59, 140, 26F	EA	4
33	4	PAOZZ	9905-00-999-7370	96906	MS53007-1	RIVET BLINDA09, A10, A11, A12, A13, A14, C13, C58, C59, 140, 26F	EA	8
33	5	PAOZZ	9905-00-999-7369	96906	MS53007-2	PLATE IDENTIFICATIO..... A0	EA	2
33	6	PAOZZ	4730-00-069-1186	96906	MS39179-5	ADAPTER STRAIGHT PI .....	EA	2
33	7	PAOZZ	4730-00-244-9848	19207	5228623	NIPPLE TANK .....	EA	5
33	7	XBOZZ	2530-00-157-1396	19207	8730456	BRACKET MOUNTING BR.....	EA	4
33	7	PAOZZ	4730-00-244-9848	19207	5228623	NIPPLE TANK .....	EA	2
33	8	PAOZZ	4730-00-069-1187	96906	MS39182-3	ELBOW PIPE TO TUBE .....	EA	2
33	9	PAOZZ	4710-00-203-3172	19207	8689208	TUBE , METALLIC.....	EA	1
33	9	PAOZZ	4710-00-203-3172	19207	8689208	TUBE METALLIC.....	EA	57
33	9	PAOZZ	4710-00-203-3172	19207	8689208	TUBE METALLIC.....	EA	61
33	9	PAOZZ	4710-00-203-3172	19207	8689208	TUBE METALLIC.....	EA	73
33	9	XDOZZ	4720-01-014-4915	30327	C606	HOSE NONMETALLIC .....	EA	63
33	10	PAOZZ	5325-00-754-1071	96906	MS35489-102	GROMMET NONMETALLIC.....	EA	70
33	10	XDOZZ	5325-00-720-8076	96906	MS35490-61	GROMMET NONMETALLIC.....	EA	16
33	10	PAOZZ		96906	MS35490-61	GROMMET NONMETALLIC.....	EA	22
33	10	PAOZZ		96906	MS35490-61	GROMMET NONMETALLIC.....	EA	24
33	10	PAOZZ		96906	MS35490-61	GROMMET RUBBER .....	EA	36
33	10	PAOZZ		96906	MS35490-61	NUT PLAIN HEXAGON .....	EA	26
33	11	PAOZZ	5310-00-761-6882	96906	MS51967-2	WASHER LOCK .....	EA	4
33	12	PAOZZ	5310-00-550-1130	96906	MS35333-40	SCREW MACHINE .....	EA	4
33	13	PAOZZ	5305-00-988-1725	96906	MS35206-281	CLAMP LOOP .....	EA	4
33	14	PAOZZ	5340-00-809-1492	96906	MS21333-100	NIPPLE TUBE .....	EA	4
33	15	PAOZZ	4730-00-278-3213	14397	MS39187-2	GROMMET NONMETALLIC.....	EA	2
33	16	PAOZZ	5325-00-050-1586	19207	10906798	GROMMET NONMETALLIC.....	EA	16
33	16	PAOZZ	5325-01-050-1586	19207	10906798	WASHER LEVEL .....	EA	12
33	17	PAOZZ	5310-01-053-1444	19207	10891417	TEE TUBE .....	EA	4
33	18	PAOZZ	4730-00-896-0837	96906	MS9188-2	AIR FILTER BRAKE BRAKE AIR LINE, U/O NHA 10907079 (SOME MODELS).....	EA	2
33	19	PAOZZ	2530-00-797-9295	19207	741022	NUT PLAIN HEXAGON U/O NHA10907079 (SOME MODELS)	EA	2
33	20	PAOZZ	5310-00-761-6882	96906	MS51967-2	WASHER LOCK U/O NHA 10907079 (SOME MODELS)	EA	8
33	21	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER LOCK U/O NHA 10907079 (SOME MODELS)	EA	

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
33	22	PAOZZ	5306-00-797-9296	19207	7979296	BOLT U BRAKE AIR LINE U/O NHA 10907079 (SOME MODELS)A09, A10, A11, A12, A13, A14, C13, C58, C59, 140, 26F	EA	4
33	23	PAOZZ	4820-00-350-6749	19207	7979296	VALVE HYDRAULIC SYSTEM A09, A10, A11, A12, A13 ..... A14, C13, C58, C59, 140, 26F	EA	1
33	24	PAOZZ	4710-00-277-5529	19207	8689210	TUBE METALLICA09, A10, A11, A12, A13, A14, C13, ..... C58, C59, 140, 26F	EA	4
33	25	PAOZZ	2530-00-741-1078	19207	7411078	RESERVIOIR AIRA09, A10, A11, A12, A13, A14, C13, ..... C58, C59, 140, 26F	EA	1
33	26	PAOZZ	4820-00-849-1220	96906	MS35782-5	COCK DRAIN A09, A10, A11, A12, A13, A14, C13, C58 ..... C59, 140, 26F	EA	1
33	27	PAOZZ	5340-01-083-5527	19207	7411079	STRAP RETAINING A09, A10, A11, A12, A13, A14, C13, ..... C58, C59, 140, 26F	EA	2
33	27	PAOZZ	5340-00-977-0815	19207	7411080	STRAP RETAINING A09, A10, A11, A12, A13, A14, C13, ..... C58, C59, 140, 26F	EA	2
33	28	PAOZZ	5305-00-269-3213	96906	MS90725-62	SCREW CAP HEXAGON HA09, A10, A11, A12, A13, A14, ..... C58, C59, 140, 26F	EA	4
33	28	PAOZZ	5305-00-964-0564	96906	MS51095-372	SCREW CAP HEXAGON HA09, A10, A11, A12, A13, A14, ..... C58, C59, 140, 26F	EA	1
33	29	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER LOCK A09, A10, A11, A12, A13, A14, C13, C58 ..... , C59, 140, 26F	EA	6
33	30	PAOZZ	5310-00-732-0558	96906	MS51967-8	NUT PLAIN HEXAGON A09, A10, A11, A12, A13, A14, C13 ..... C58, C59, 140, 26F	EA	6
33	31	PAOZZ	2530-00-270-3878	19207	7014965	DUMMY COUPLING AUTO A09, A10, A11, A12, A13, A14, C13 ..... , C58, C59, 140, 26F	EA	2
33	32	PAOZZ	4730-00-595-0083	96906	MS35746-1	COUPLING HALF QUICK A09, A10, A11, A12, A13, A14, C13 ..... , C58, C59, 140, 26F	EA	2
33	33	PAOZZ	4730-00-249-3935	96906	MS39231-4	ELBOW PIPE A09, A10, A11, A12, A13, A14, C13, C58 ..... , C59, 140, 26F	EA	2
33	34	PAOZZ	4730-00-196-0883	19422	BM11399-108	BUSHING PIPE A09, A10, A11, A12, A13, A14, C13, C58 ..... , C59, 140, 26F	EA	2
33	35	PAOZZ	4820-00-420-5499	04741	25-A-257	VALVE BALL AIR CUTOFF A09, A10, A11, A12, A13, A14 ..... , C13, C58, C59, 140, 26F	EA	2
33	36	PAOZZ	4710-00-203-3172	19207	8689208	TUBE METALLICA09, A10, A11, A12, A13, A14, C13, ..... C58, C59, 140, 26F	EA	32
33	37	PAOZZ	5310-00-732-0558	96906	MS51967-8	NUT PLAIN HEXAGON A09, A10, A11, A12, A13, A14, C13 ..... , C58, C59, 140, 26F	EA	6
33	38	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER LOCK A09, A10, A11, A12, A13, A14, C13, C58 ..... , C59, 140, 26F	EA	6
33	39	PAOZZ	5305-00-942-2196	96906	MS18154-60	SCREW CAP HEXAGON HA09, A10, A11, A12, A13, A14, C13 ..... , C58, C59, 140, 26F	EA	6
33	40	PBOZZ	2530-00-157-1396	19207	8730456	BRACKET MOUNTING A09, A10, A11, A12, A13, A14, C13 ..... , C58, C59, 140, 26F	EA	2
33	41	PBOZZ	2530-00-946-8370	19207	8730455	CHAMBER AIR BRAKE A09, A10, A11, A12, A13, A14, C13 ..... , C58, C59, 140, 26F	EA	2
33	42	PAOZZ	5310-00-763-8905	96906	MS51968-20	NUT PLAIN HEXAGON A09, A10, A11, A12, A13, A14, C13, ..... C58, C59, 140, 26F	EA	4
33	43	PAOZZ	5310-00-820-6653	80045	23MS35338-50	WASHER LOCK A09, A10, A11, A12, A13, A14, C13, ..... C58, C59, 140, 26F	EA	4
33	44	PAOZZ	5310-00-820-6652	96906	MS35489-72	GROMMET NONMETALLICA09, A10, A11, A12, A13, C13, ..... C58, C59, 140, 26F	EA	8
33	45	PAOZZ	4720-00-678-6125	19207	8747263	HOSE ASSEMBLY NONME A09, A10, A11, A12, A13, A14 ..... C13, C58, C59, 140, 26F	EA	2
33	46	PAOZZ	4730-00-187-7612	96906	MS39233-4	COUPLING PIPE ..... A09, A10, A11, A12, A13, A14, ..... C13, C58, C59, ..... , 140, 26F	EA	2
33 4	47	XDOZZ		19207	7091890	BOLT ASSEMBLY A09, A10, A11, A12, A13, A14, C13, C58, ..... C59, 140, 26F	EA	
33	48	PAOZZ	4730-00-069-1186	96906	MS39179-5	ADAPTER STRAIGHT PIA09, A10, A11, A12, A13, A14, C13, ..... C58, C59, 140, 26F	EA	12
33	49	PAOZZ	5310-00-891-3428	96906	MS35691-77	NUT PLAIN HEXAGON ..... C13	EA	2
33	50	PAOZZ	5310-00-582-6714	96906	MS35333-49	WASHER LOCK ..... C13	EA	2

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
33	51	PAOZZ	4730-01-050-3498	19207	10929836	FITTING, BULKHEAD..... C13	EA	2

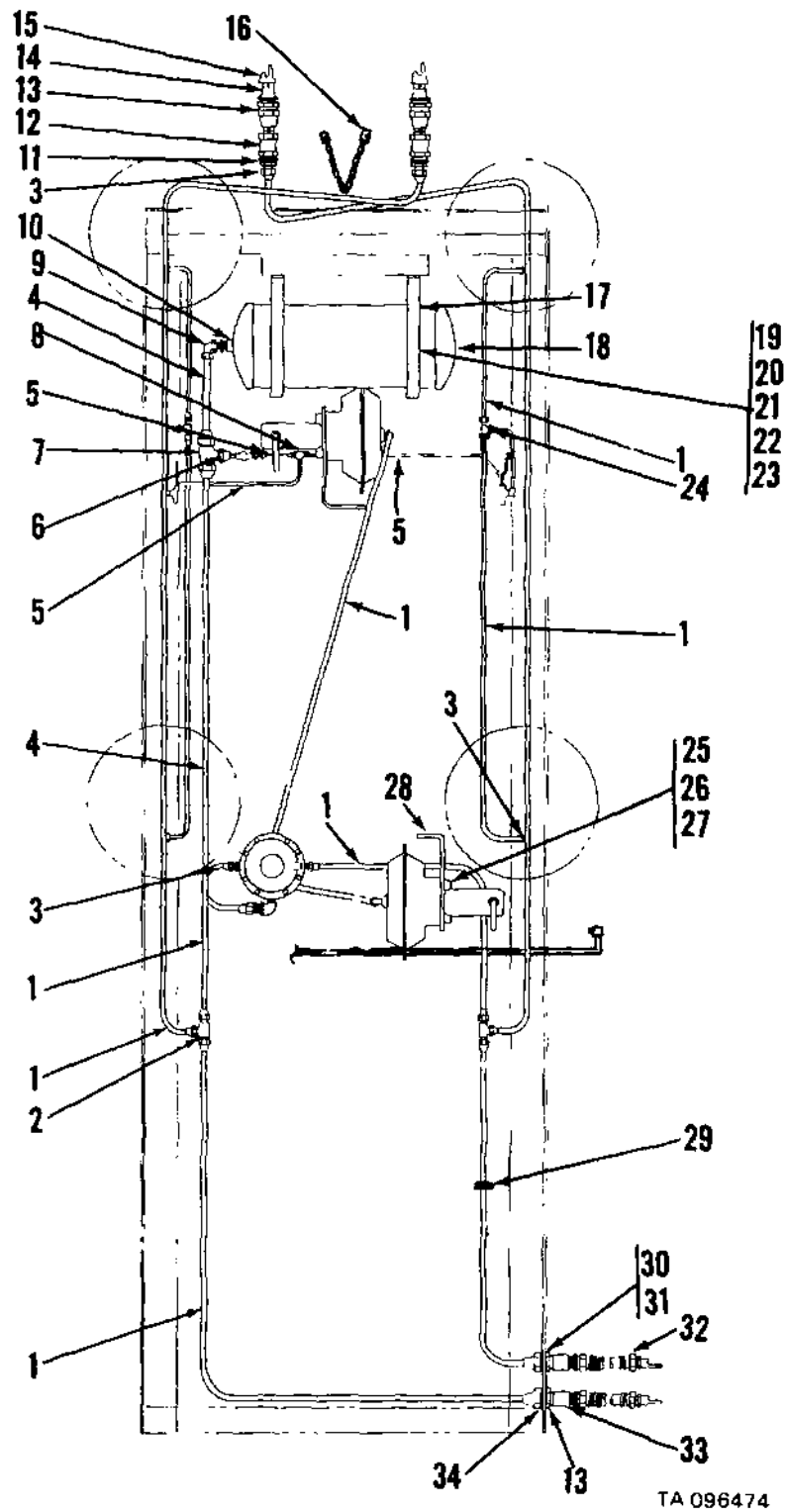
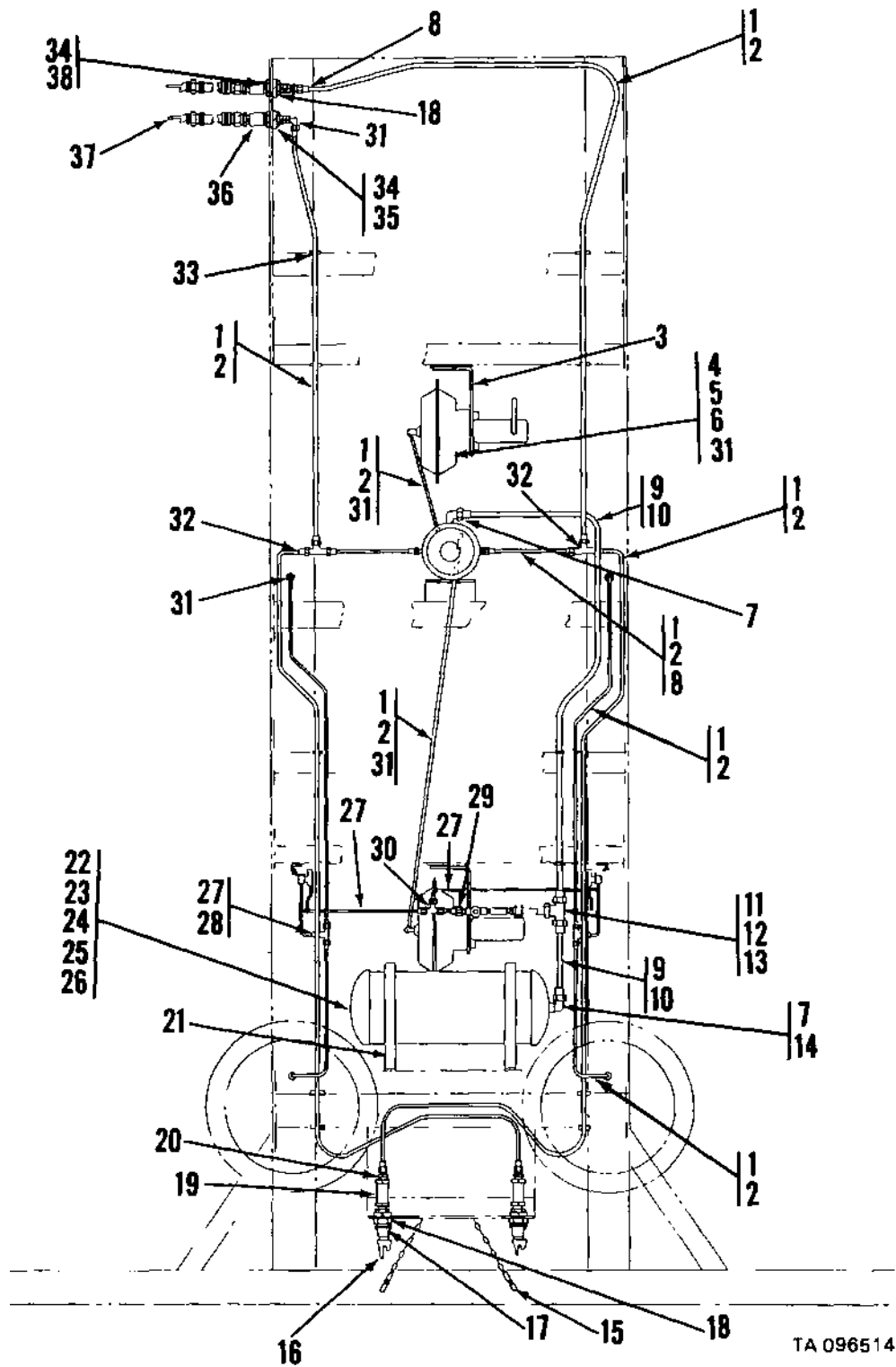


Figure 34. Brake and air suspension air lines, XM844, XM845, XM847, XM848, XM849, XM850.

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
34	1	PAOZZ	4710-00-203-3172	19207	868208	TUBE METALLIC..... C14, C15, C16, C17, C18, C19	FT	40
34	2	PAOZZ	4730-00-896-0837	96906	MS9188-2	TEE, TUBE ..... C14, C15, C16, C17, C18, C19	EA	2
34	3	PAOZZ	4730-00-069-1186	96906	MS39179-5	ADAPTER STRAIGHT C14, C15, C16, C17, C18, C19	EA	8
34	4	PAOZZ	4710-00-277-5529	19207	8689210	TUBE, METALLIC..... C14, C15, C16, C17, C18, C19	FT	5
34	5	PAOZZ	4710-00-277-5525	19207	8689206	TUBE, METALLIC..... C14, C15, C16, C17, C18, C19	FT	7
34	6	PAOZZ	4730-00-231-5644	96906	MS39232-2	REDUCER, PIPE ..... C14, C15, C16, C17, C18, C19	EA	1
34	7	PAOZZ	4730-01-131-5951	96906	MS39190-5	TEE, PIPE TO TUBE .C14, C15, C16, C17, C18, C19	EA	1
34	8	PAOZZ	4730-00-921-3241	96906	MS39188-1	TEE, TUBE ..... C14, C15, C16, C17, C18, C19	EA	1
34	9	PAOZZ		96906	MS39171-7	ELBOW, PIPE TO TUBEC14, C15, C16, C17, C18, C19	EA	1
34	10	PAOZZ	4820-00-849-1220	96906	MS35782-5	COCK DRAIN ..... C14, C15, C16, C17, C18, C19	EA	1
34	11	PAOZZ	4730-00-196-0883	19422	BM11399-108	BUSHING, PIPE ..... C14, C15, C16, C17, C18, C19	EA	2
34	12	PAOZZ	4820-00-350-6495	24617	695988	COCK, PLUG..... C14, C15, C16, C17, C18, C19	EA	2
34	13	PAOZZ	4730-00-244-9848	19207	5228623	NIPPLE, PIPE..... C14, C15, C16, C17, C18, C19	EA	4
34	14	PAOZZ	4730-00-249-3935	96906	MS39231-4	ELBOW PIPE ..... C14, C15, C16, C17, C18, C19	EA	2
34	15	PAOZZ	4730-00-595-0083	96906	MS35746-1	COUPLING, HALF QUICKC14, C15, C16, C17, C18, C19	EA	2
34	16	PAOZZ	2530-00-270-3878	19207	7014965	DUMMY, COUPLING. C14, C15, C16, C17, C18, C19	EA	2
34	17	PAOZZ	5340-00-977-0815	19207	7411080	STRAP RETAINING ... C14, C15, C16, C17, C18, C19	EA	2
34	18	PAOZZ	2530-00-741-1078	19207	7411078	RESERVIOR AIR..... C14, C15, C16, C17, C18, C19	EA	1
34	19	PAOZZ	5340-01-083-5527	19207	7411079	STRAP, RETAINING . C14, C15, C16, C17, C18, C19	EA	2
34	20	PAOZZ	5305-00-269-2803	96906	MS90726-60	SCREW, CAP, HEXAGONC14, C15, C16, C17, C18, C19	EA	4
34	21	PAOZZ	5305-00-269-3250	96906	MS90727-74	SCREW CAP, HEXAGON HC14, C15, C16, C17, C18, C19	EA	2
34	22	PAOZZ	5310-00-637-9541	96906	MS24227-46	WASHER LOCK ..... C14, C15, C16, C17, C18, C19	EA	6
34	23	PAOZZ	5310-00-732-0559	96906	MS51968-8	NUT PLAIN HEXAGONC14, C15, C16, C17, C18, C19	EA	6
34	24	PAOZZ		96906	MS51811-4	TEE, TUBE BRAKE LINEC14, C15, C16, C17, C18, C19	EA	2
34	25	PBOZZ	2530-00-946-8370	19207	8730455	CHAMBER AIR BRAKEC14, C15, C16, C17, C18, C19	EA	2
34	26	PAOZZ	5310-00-763-8905	96906	MS51968-20	NUT PLAIN HEXAGONC14, C15, C16, C17, C18, C19	EA	4
34	27	PAOZZ	5310-00-820-6653	80045	23MS35338-50	WASHER LOCK ..... C14, C15, C16, C17, C18, C19	EA	4
34	28	PBOZZ	2530-00-157-1396	19207	8730456	BRACKET, MOUNTINGC14, C15, C16, C17, C18, C19	EA	2
34	29	PAOZZ	5325-00-814-3316	96906	MS35489-105	GROMMET NONMETALLICC14, C15, C16, C17, C18, C19	EA	22
34	30	PAOZZ	5320-00-982-3815	96906	MS24662-153	RIVET BLIND..... C14, C15, C16, C17, C18, C19	EA	8
34	31	PAOZZ	9905-00-999-7369	96906	MS53007-2	PLATE IDENTIFICATIOC14, C15, C16, C17, C18, C19	EA	2
34	32	PAOZZ	4720-00-678-6125	19207	8747263	HOSE ASSEMBLY NONMEC14, C15, C16, C17, C18, C19	EA	2
34	33	PAOZZ	4730-00-187-7612	96906	MS39233-4	COUPLING PIPE ..... C14, C15, C16, C17, C18, C19	EA	2
34	34	PAOZZ	9905-00-999-7370	96906	MS3007-1	PLATE IDENTIFICATIOC14, C15, C16, C17, C18, C19	EA	2



TA 096514

Figure 35. Brake and air suspension air lines, XM912, XM913.

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
35	1	PAOZZ	4720-01-014-4915	19207	CPR104420-2	HOSE NONMETALLIC ..... C61, C62	FT	41
35	2	PAOZZ	4730-01-079-8821	19207	CPR102321-1	SLEEVE FLARED TUBE ..... C61, C62	EA	22
35	3	PAOZZ	2530-00-157-1396	19207	8730456	BRACKET MOUNTING..... C61, C62	EA	2
35	4	PAOZZ	2530-00-946-8370	19207	8730455	CHAMBER, AIR BRAKE ..... C61, C62	EA	2
35	5	PAOZZ	5310-00-763-8905	96906	MS51968-20	NUT, PLAIN HEXAGON ..... C61, C62	EA	4
35	6	PAOZZ	5310-00-820-6653	80045	23MS35338-50	WASHER LOCK ..... C61, C62	EA	4
35	7	PAOZZ	4730-00-289-0051	96906	MS39182-6	ELBOW PIPE TO TUBE ..... C61, C62	EA	2
35	8	PAOZZ	4730-00-069-1186	96906	MS39179-5	ADAPTER STRAIGHT ..... C61, C62	EA	3
35	9	PAOZZ	4720-01-040-0592	19207	CPR104420-3	HOSE NONMETALLIC ..... C61, C62	FT	6
35	10	PAOZZ	4730-01-032-6038	19207	CPR102321-4	SLEEVE, FLARED TUBE ..... C61, C62	EA	4
35	11	PAOZZ	4730-00-240-9159	96906	MS39188-3	TEE TUBE ..... C61, C62	EA	1
35	12	PAOZZ	4710-00-277-5529	19207	8689210	TUBE METALLIC AIR BRAKE LINE (3 IN) ... C61, C62	EA	3
35	13	PAOZZ	4730-00-203-0028	56442	1014M5	ADAPTER STRAIGHT, PI ..... C61, C62	EA	1
35	14	PAOZZ	4820-00-849-1220	96906	MS35782-5	COCK DRAIN ..... C61, C62	EA	1
35	15	PAOZZ	2530-00-270-3878	19207	7014965	DUMMY COUPLING AUTO ..... C61, C62	EA	2
35	16	PAOZZ	4730-00-595-0083	96906	MS35746-1	COUPLING HALF QUICK..... C61, C62	EA	2
35	17	PAOZZ	4730-00-249-3935	96906	MS39231-4	ELBOW PIPE ..... C61, C62	EA	2
35	18	PAOZZ	4730-00-244-9848	19207	5228623	NIPPLE TANK ..... C61, C62	EA	4
35	19	PAOZZ	4820-00-629-2180	19207	10945045	COCK PLUG..... C61, C62	EA	2
35	20	PAOZZ	4730-00-837-1177	96906	MS39179-7	ADAPTER STRAIGHT ..... C61, C62	EA	2
35	21	PAOZZ	5340-00-977-0815	19207	7411080	STRAP RETAINING ..... C61, C62	EA	2
35	21	PAOZZ	5340-01-083-5527	19207	7411079	STRAP RETAINING ..... C61, C62	EA	2
35	22	PAOZZ	2530-00-741-1078	19207	7411078	RESERVIOR AIR..... C61, C62	EA	1
35	23	PAOZZ	5310-00-732-0559	96906	MS51968-8	NUT, PLAIN HEXAGON ..... C61, C62	EA	6
35	24	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER LOCK ..... C61, C62	EA	6
35	25	PAOZZ	5305-00-269-2803	96906	MS90726-60	SCREW, CAP, HEXAGON H..... C61, C62	EA	4
35	26	PAOZZ	5305-00-269-3250	96906	MS90726-74	SCREW, CAP, HEXAGON H..... C61, C62	EA	2
35	27	PAOZZ	4710-00-277-5525	19207	8689206	TUBE, NONMETALLIC ..... C61, C62	FT	5
35	28	PAOZZ	4730-01-102-3704	06853	225760	TEE TUBE ..... C61, C62	EA	2
35	29	PAOZZ	4730-00-270-4580	96906	MS39179-2	ADAPTER STRAIGHT ..... C61, C62	EA	1
35	30	PAOZZ	4730-00-921-3241	96906	MS39188-1	TEE, TUBE ..... C61, C62	EA	1
35	31	PAOZZ	4730-00-069-1187	96906	MS39182-3	ELBOW PIPE TO TUBE ..... C61, C62	EA	9
35	32	PAOZZ	4730-00-896-0837	96906	MS39188-2	TEE TUBE ..... C61, C62	EA	2
35	33	PAOZZ	5325-00-814-3316	96906	MS35489-105	GROMMET NONMETALLIC..... C61, C62	EA	18
35	34	PAOZZ	5320-00-982-3815	96906	MS24662-153	RIVET, BLIND..... C61, C62	EA	8
35	35	PAOZZ	9905-00-999-7369	96906	MS53007-2	PLATE IDENTIFICATIO..... C61, C62	EA	2
35	36	PAOZZ	4730-00-187-7612	96906	MS39233-4	COUPLING, PIPE ..... C61, C62	EA	2
35	37	PAOZZ	4720-00-678-6125	19207	8747263	HOSE ASSEMBLY, NONME ..... C61, C62	EA	2
35	38	PAOZZ	9905-00-999-7370	96906	MS53007-1	PLATE, IDENTIFICATIO..... C61, C62	EA	2



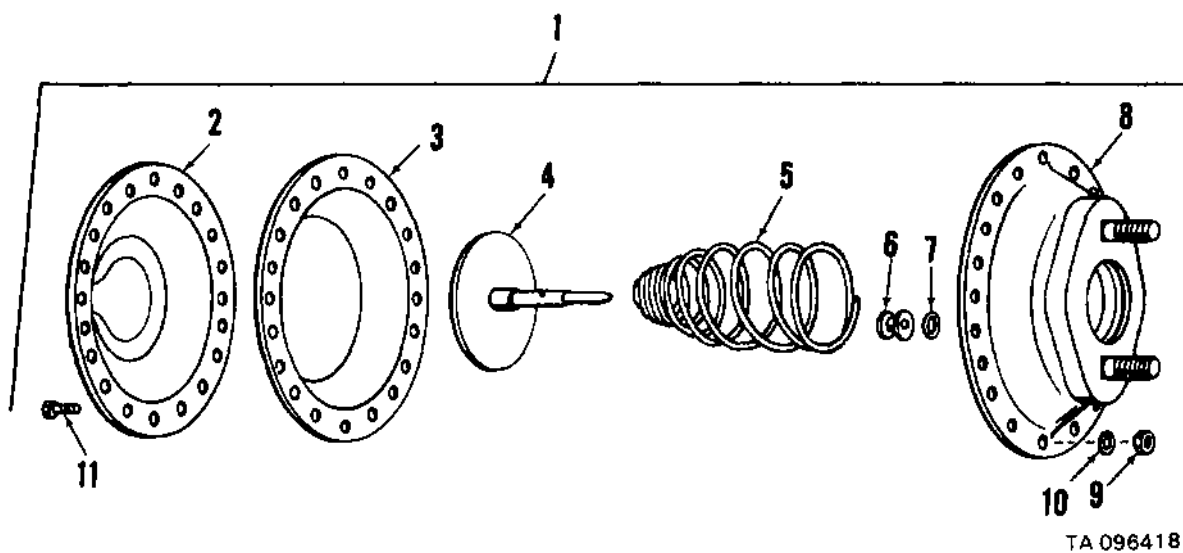
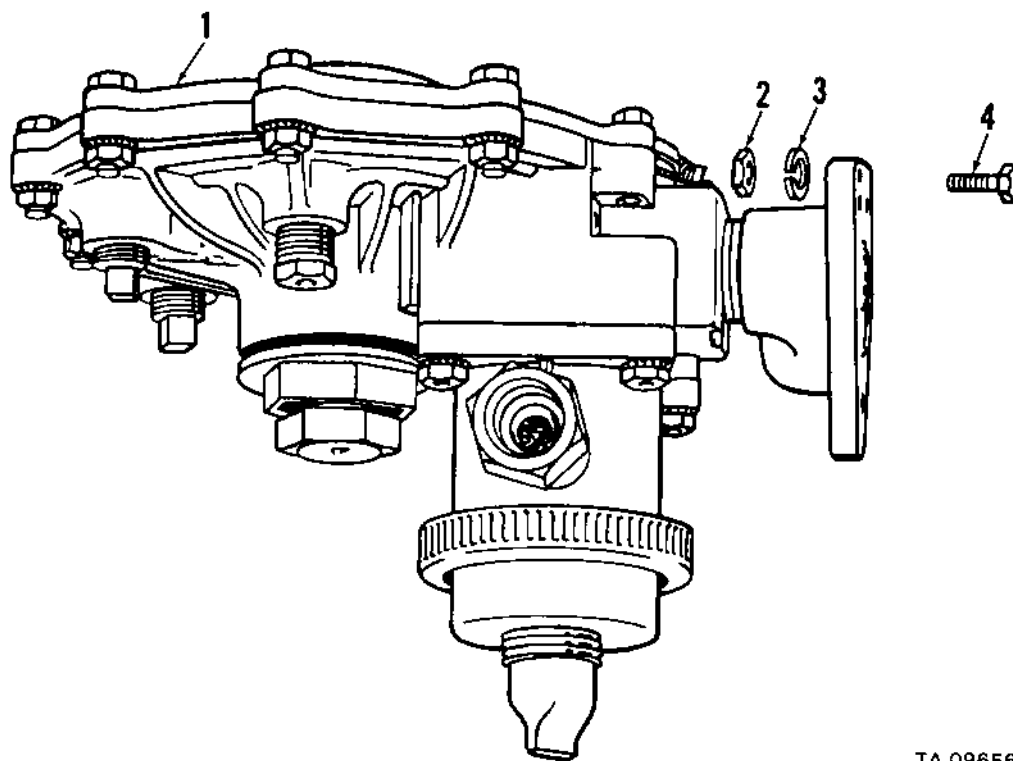


Figure 36. Brake air chamber.

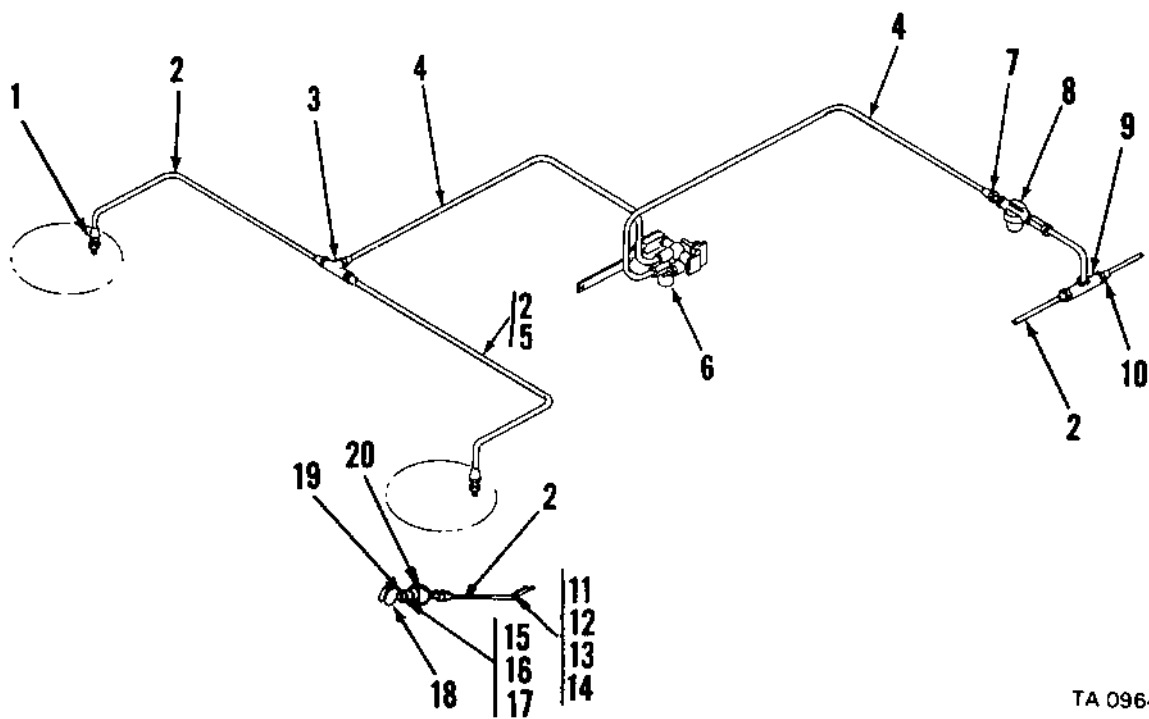
(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
36	1	PAOZZ	2530-00-142-6045	19207	11668361	CHAMBER, AIR BRAKE AIR HYDRAULIC SYSTEM .	EA	2
36	2	XAOZZ		19207	8380817	COVER ASSEMBLY .....	EA	1
36	3	PAOZZ	2530-00-318-1227	19207	8380805	DIAPHRAGM, CHAMBER .....	EA	1
36	4	PAOZZ		19207	8380818	ROD ASSEMBLY .....	EA	1
36	5	PAOZZ	5360-00-780-0508	19207	8380802	SPRING RETURN .....	EA	1
36	6	XDOZZ		19207	8380814	COLLAR PUSH ROD.. C16, C17, C18, C19, C61, C62	EA	1
36	7	PAOZZ	5330-00-067-3358	19207	7352008	PACKING, PREFORMED .....	EA	1
36	8	XDOZZ		19207	83808081	BODY ASSEMBLY .....	EA	2
36	9	PAOZZ	5310-00-732-0559	96906	MS51968-8	NUT PLAIN HEXAGON .....	EA	18
36	10	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER LOCK .....	EA	18
36	11	PAOZZ	5305-00-269-2803	96906	MS90726-60	SCREW CAP HEXAGON .....	EA	16



TA 096560

Figure 37. Relay valve.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
37	1	XDOZZ	2530-00-118-8589	96906	MS53004-1	VALVE, RELAY, EMERGENA09, A10, A11, A12, A13 ..... A14, C13, C58, C59, 140, 26F	EA	1
37	1	XDOZZ	2530-00-118-8589	96906	MS53004-1	VALVE RELAYC14, C15, C16, C17, C18, C19, C61, C62	EA	1
37	2	PAOZZ	5310-00-732-0558	96906	MS51967-8	NUT PLAIN HEXAGON .....	EA	3
37	3	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER LOCK .....	EA	3
37	4	PAOZZ	5305-00-688-2111	96906	MS90728-63	SCREW CAP HEXAGON H.....	EA	3



TA 096472

Figure 38. Air mounted kingpin air lines, XM847, XM848, XM849, XM850.  
E-88

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
38	1	PAOZZ	4730-00-069-1186	96906	MS39179-5	ADAPTER STRAIGHT.....C16, C17, C18, C19	EA	4
38	2	PAOZZ	4710-00-203-3172	19207	8689208	TUBE , METALLIC HT CONTROL LINE (1 FT)C16, C17, .....C18, C19	FT	13
38	3	XDOZZ		96906	MS51811-4	TEE TUBE.....C16, C17, C18, C19	EA	1
38	4	PAOZZ	4710-00-277-5525	19207	8689206	TUBE METALLIC.....C16, C17, C18, C19	FT	3
38	5	PAOZZ	5325-01-039-4574	19207	10906797	GROMMET NONMETALLIC.....C16, C17, C18, C19	EA	14
38	5	PAOZZ		96906	MS35490-61	GROMMET NONMETALLIC.....C16, C17, C18, C19	EA	18
38	6	PAOZZ	2510-01-092-4051	19207	11684410	VALVE HEIGHT.....C16, C17, C18, C19	EA	1
38	7	PAOZZ	4730-00-270-4580	96906	MS39179-2	ADAPTER STRAIGHT.....C16, C17, C18, C19	EA	1
38	8	PAOZZ	2530-00-075-5856	19207	11684346	VALVE AND FILTER.....C16, C17, C18, C19	EA	1
38	9	PAOZZ	4730-00-494-6580	96906	MS39190-3	TEE, PIPE TO TUBE.....C16, C17, C18, C19	EA	1
38	10	PAOZZ	4730-00-278-3213	30327	MS39190-2	NIPPLE, TUBE.....C16, C17, C18, C19	EA	2
38	11	XDOZZ	5310-00-761-6882	96906	MS51967-2	NUT, PLAIN, HEXAGONA09, C14, C16, C17, C18, C19	EA	2
38	12	PAOZZ	5310-00-550-1130	96906	MS35333-40	WASHER LOCK.....C16, C17, C18, C19	EA	2
38	13	PAOZZ	5305-00-988-1725	96906	MS35206-281	SCREW, MACHINE.....C16, C17, C18, C19	EA	2
38	14	PAOZZ	5340-00-809-1492	96906	MS21333-100	CLAMP LOOP.....C16, C17, C18, C19	EA	2
38	15	PAOZZ	5320-00-982-3815	96906	MS24662-153	RIVET BLIND.....C16, C17, C18, C19	EA	8
38	16	PAOZZ	9905-00-999-7370	96906	MS53007-1	PLATE IDENTIFICATIO.....C16, C17, C18, C19	EA	2
38	17	PAOZZ	9905-00-999-7369	96906	MS53007-2	PLATE.....C16, C17, C18, C19	EA	2
38	18	PAOZO	4730-00-595-0083	96906	MS35746-1	COUPLING HALF QUICK.....C16, C17, C18, C19	EA	2
38	19	PAOZZ	4730-00-244-9848	19207	5228623	NIPPLE PIPE.....C16, C17, C18, C19	EA	2
38	20	PAOZZ	5310-01-053-1444	19207	10891417	WASHER BEVEL.....C16, C17, C18, C19	EA	4

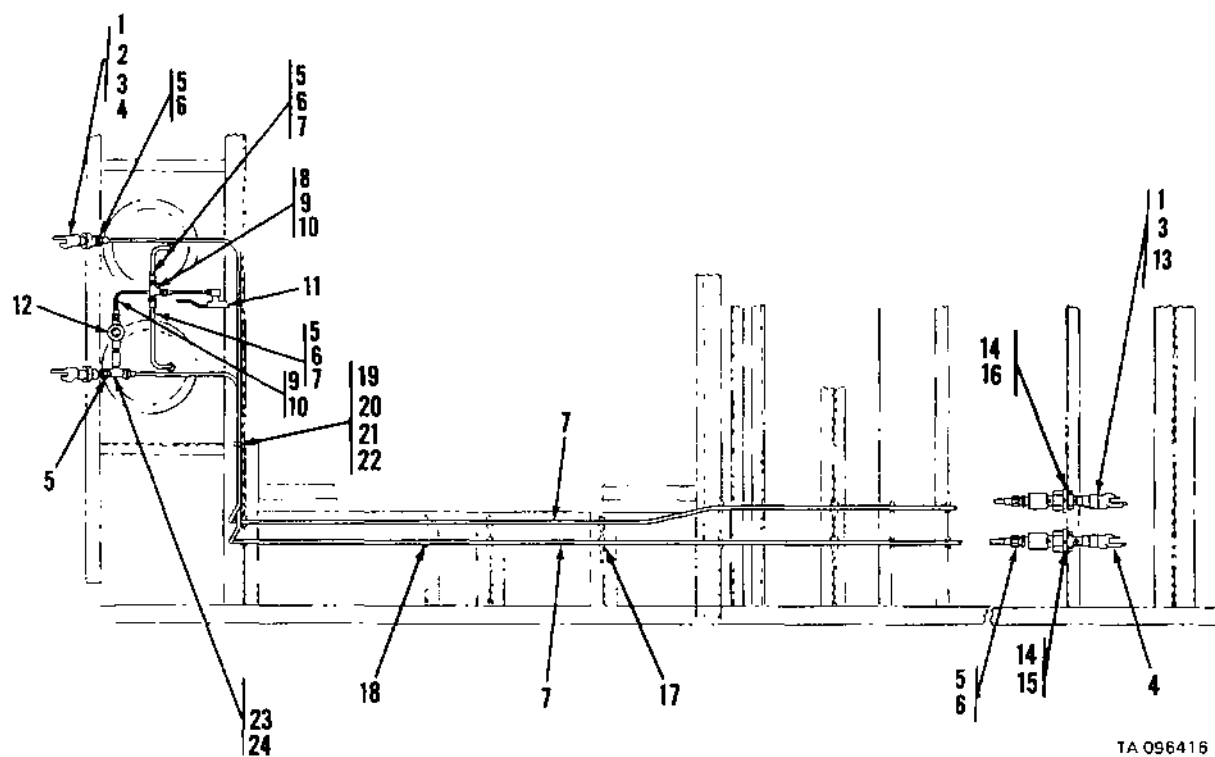


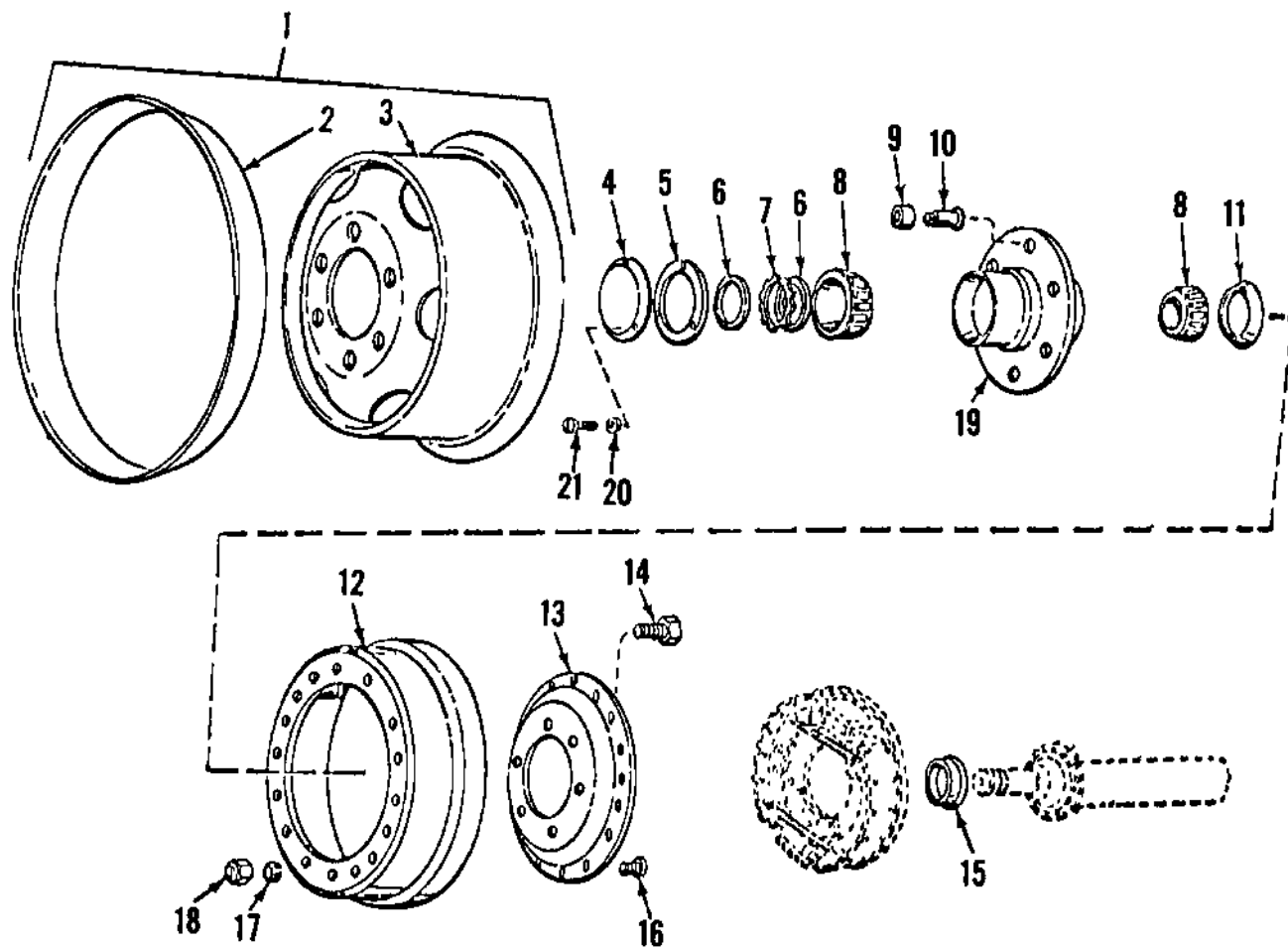
Figure 39. Air mounted kingpin air lines, XM912, XM913.  
E-90

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
39	1	PAOZO	4730-00-595-0083	96906	MS35746-1	COUPLING, HALF, QUICK.....C61, C62	EA	4
39	2	PAOZZ	5310-01-053-1444	19207	10891417	WASHER, BEVEL .....C61, C62	EA	4
39	3	PAOZZ	4730-00-244-9848	19207	5228623	NIPPLE, PIPE.....C61, C62	EA	4
39	4	PAOZZ	2530-00-270-3878	19207	7014965	DUMMY COUPLING.....C61, C62	EA	4
39	5	PAOZZ	4730-00-069-1186	96906	MS39179-5	ADAPTER STRAIGHT.....C61, C62	EA	7
39	6	PAOZZ	4730-01-079-8821	19207	CPR102321-1	SLEEVE FLARED TUBE .....C61, C62	EA	8
39	7	PAOZZ	4730-01-014-4915	19207	CPR104420-2	HOSE, NONMETALLIC .....C61, C62	FT	63
39	8	PAOZZ	4730-01-102-3704	06853	225760	TEE, TUBE .....C61, C62	EA	1
39	9	PAOZZ	4730-00-270-4580	96906	MS39179-2	ADAPTER, STRAIGHT .....C61, C62	EA	2
39	10	PAOZZ	4710-00-277-5525	19207	8669206	TUBE METALLIC.....C61, C62	FT	3
39	11	PAOZZ	2510-01-092-4051	19207	11684410	VAKVE HEIGHT CONTRO .....C61, C62	EA	1
39	12	PAOZZ	2530-00-075-5856	19207	11684346	VALVE AIR BRAKE .....C61, C62	EA	1
39	13	PAOZZ	4730-00-249-3935	96906	MS39231-4	ELBOW PIPE .....C61, C62	EA	2
39	14	PAOZZ	5320-00-982-3815	96906	MS24662-153	RIVET BLIND.....C61, C62	EA	4
39	15	PAOZZ	9905-00-999-7369	96906	MS53007-2	PLATE IDENTIFICATIO.....C61, C62	EA	1
39	16	PAOZZ	9905-00-999-7370	96906	MS53007-1	PLATE, IDENTIFICATIO.....C61, C62	EA	1
39	17	PAOZZ	5325-01-039-4574	19207	10906797	GROMMET RUBBER AIR TUBE .....C61, C62	EA	14
39	18	PAOZZ	5325-00-814-3316	96906	MS35489-105	GROMMET NONMETALLIC .....C61, C62	EA	18
39	19	PAOZZ	5310-00-761-6882	96906	MS51967-2	NUT PLAIN HEXAGONA09, A10, A11, A12, A13, A14, C13 .....C58, C59, C61, C62	EA	2
39	20	PAOZZ	5310-00-550-1130	96906	MS35333-40	WASHER, LOCK .....C61, C62	EA	2
39	21	PAOZZ	5305-00-988-1725	96906	MS35206-281	SCREW MACHINE CLAMP ATTACK.....C61, C62	EA	2
39	22	PAOZZ	5340-00-809-1492	96906	MS21333-100	CLAMP LOOP .....C61, C62	EA	2
39	23	PAOZZ	4710-00-203-3172	19207	8689208	TUBE METALLIC.....C61, C62	IN	3
39	24	PAOZZ	4730-00-494-6580	96906	MS39190-3	TEE, PIPE TO TUBE .....C61, C62	EA	1





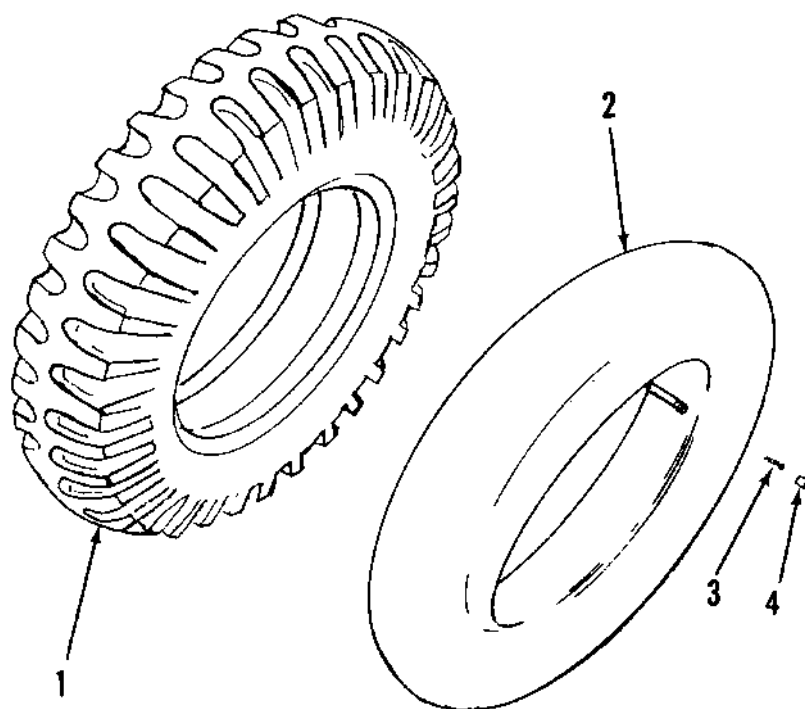
TA 096562

Figure 40. Wheel assembly.

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
40	1	PAOZZ	2530-00-024-0265	19207		WHEEL PNEUMATIC .....	EA	8
40	2	PAOZZ	2530-00-738-9061	19207		RING SIDE .....	EA	8
40	3	PAOZZ	2530-00-738-9620	19207		WHEEL PNEUMATIC .....	EA	8
40	4	PAOZZ	1015-00-614-4454	19207		CAP .....	EA	4
40	5	PAOZZ	5330-00-614-4356	19207		GASKET .....	EA	4
40	6	PAOZZ	5310-00-741-1379	19207		NUT PLAIN OCTAGON .....	EA	8
40	7	PAOZZ	5310-00-741-1378	19207		WASHER KEY .....	EA	4
40	8	PAOZZ	3110-00-100-5951	96906		BEARING ROLLER U/O NHA 8758911, 11684319 ....	EA	8
40	9	PAOZZ	5310-00-880-2004	96906		NUT PLAIN SINGLE BA BALL SEAT OUTER LH U/O NHA 8758911, 11684319 .....	EA	12
40	9	PAOZZ	5310-00-500-0387	21450		NUT PLAIN SINGLE .....	EA	12
40	10	PAOZZ	2530-00-693-1029	96906		NUT CAP DUAL WHEEL .....	EA	12
40	10	PAOZZ	2530-00-359-1162	96906		NUT CAP DUAL WHEEL .....	EA	12
40	11	PAOZZ	5330-00-741-1429	19207		SEAL PLAIN ENCASED .....	EA	4
40	12	PAOZZ	2530-00-741-1425	19207		BRAKE DRUM .....	EA	4
40	13	PAOZZ	2530-00-741-3231	19207		BACK, FRONT BRAKE .....	EA	4
40	14	PAOZZ	5306-00-733-9239	96906		BOLT RIBBED SHOULDE .....	EA	12
40	14	PAOZZ	5306-00-383-4957	96906		BOLT RIBBED SHOULDE .....	EA	12
40	15	PAOZZ	5365-00-741-1433	19207		SPACER SLEEVE .....	EA	4
40	16	PAOZZ	5306-00-335-4768	19207		BOLT RIBBED NECK .....	EA	72
40	17	PAOZZ	5310-00-080-6004	96906		WASHER FLAT .....	EA	72
40	18	PAOZZ	5310-00-982-4908	19207		NUT SELF LOCKING .....	EA	72
40	19	PAOZZ	1440-00-735-5316	19207		HUB BODY .....	EA	4
40	20	PAOZZ	5310-00-582-5965	96906		WASHER LOCK .....	EA	12
40	21	PAOZZ	5305-00-988-1723	96906		SCREW MACHINE .....	EA	12



TA 032451

Figure 41. Tire and tube.  
E-94

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
41	1	PAOFF	2610-00-262-8677		ZZ-T-381M/ GROUP 3	TIRE, PNEUMATIC 72100.....	EA	8
41	2	PAOZZ	2610-00-269-7383	81348	/9.00-20/D/TBCC			
41	3	PAOZZ	2640-00-810-5861	82.370	F24	INNER TUBE, PNEUMATI 684446, 9772100 .....	EA	8
41	4	PAOZZ	2640-00-060-3550	96906	MS51377-1	VALVE CORE 46, 9772100 .....	EA	8
				96906	MS51375-1	CAP PNEUMATIC VALVE 46, 9772100 .....	EA	8

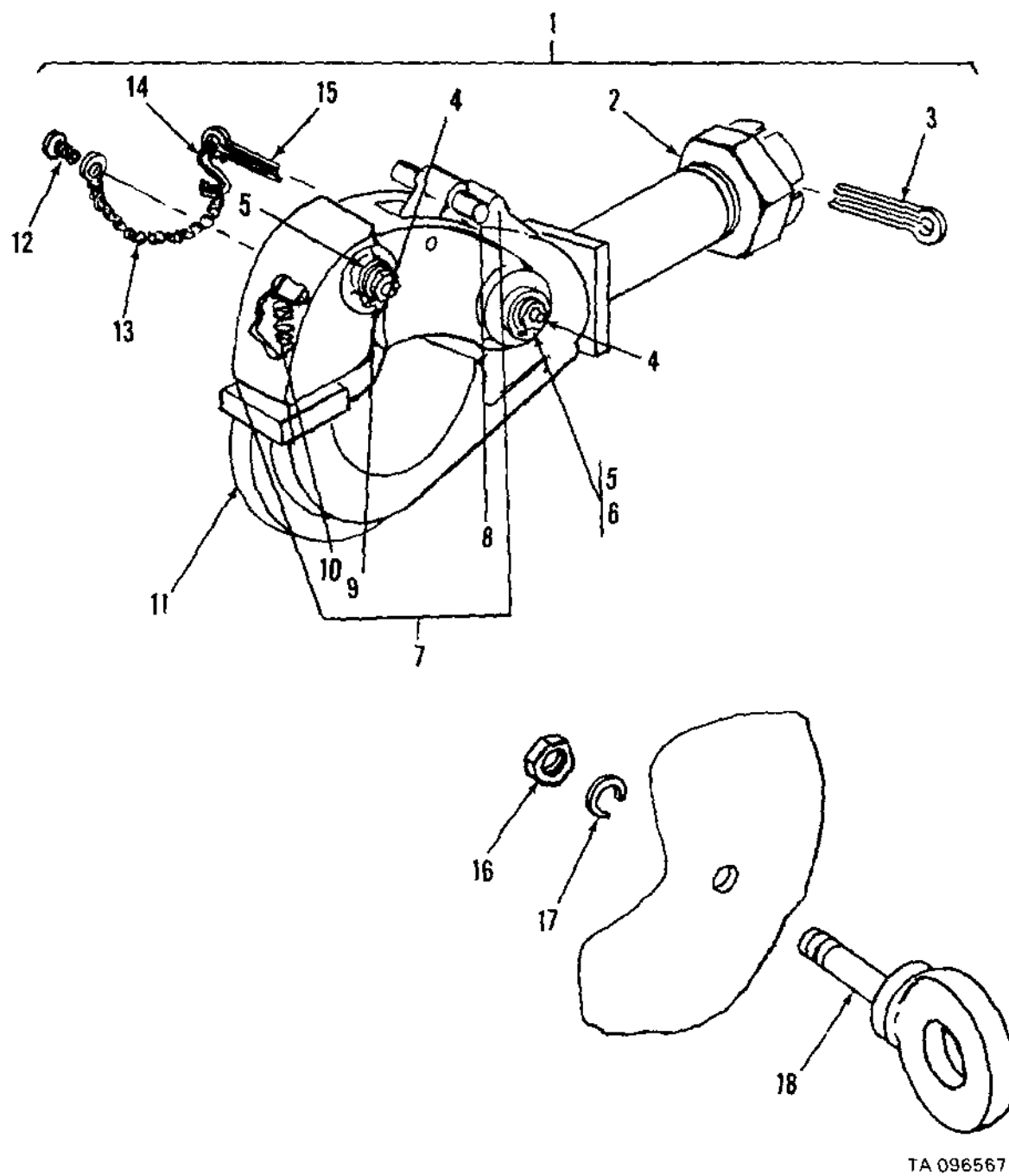
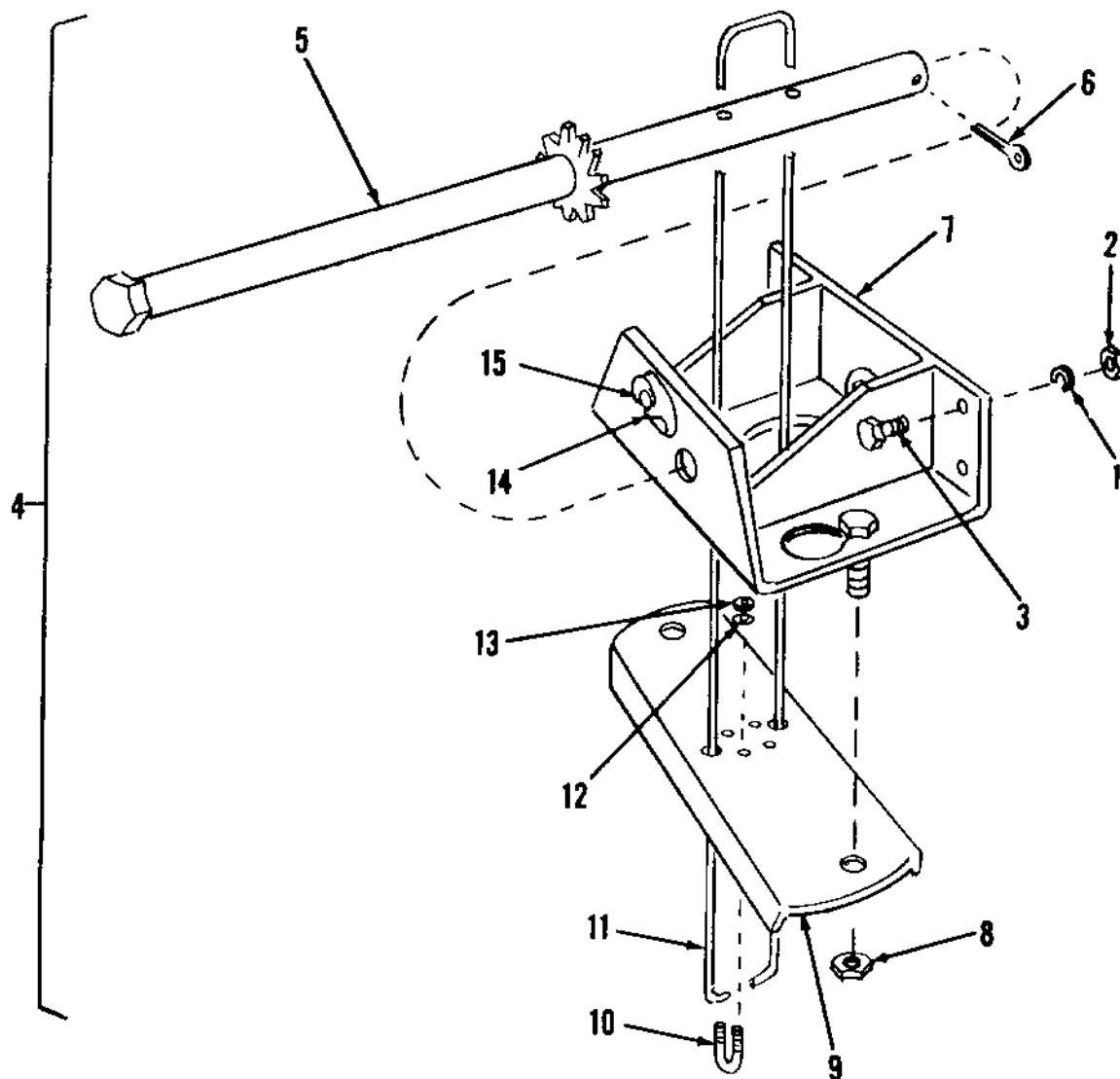


Figure 42. Pintle and towing attachments.

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
42	1	PAOZZ	2540-00-078-6633	96906	MS51335-1	GROUP 15 FRAME, TOWING ATTACHMENTS GROUP 1503 PINTLES AND TOWING ATTACHEMENTS  PINLE ASSEMBLY .....	EA	1
42	2	PAOZZ	5310-00-849-6882	96906	MS35692-94	•NUT, PLAIN, SLOTTED, H .....	EA	1
42	3	PAOZZ	5315-00-846-0126	96906	MS24665-628	•PIN, COTTER .....	EA	1
42	4	PAOZZ	4730-00-050-4203	96906	MS15001-1	•FITTING, LUBRICATION .....	EA	2
42	5	PAOZZ	5365-00-803-7301	96906	MS16624-1050	•RING, RETAINIG .....	EA	4
42	6	PAOZZ	5315-00-290-6132	19207	7524315	•PIN, GROOVED, HEADLES .....	EA	1
42	7	PBOZZ	2540-01-024-3622	19207	8380197	•LOCK ASSEMBLY, PINTL .....	EA	
42	8	PBOZZ	2540-01-023-5116	19207	8380196	••LATCH, PINTLE HOOK .....	EA	1
42	9	PAOZZ	5315-00-752-4316	19207	7524316	••PIN, GROOVED, HEADLES .....	EA	1
42	10	PAOZZ	5360-00-704-4253	19207	7044253	••SPRING, HELICAL, COMP .....	EA	1
42	11	PAOZZ	2540-00-078-6633	96906	MS51335-1	•PINTLE ASSEMBLY, TOW A09, A10, A11, A12, A13, A14 C13, C14, C15, C16, C17, C18, C19, C58, C59, C61, C62 •SCREW, DRIVE .....	EA	1
42	12	PAOZZ	5305-00-253-5626	96906	MS21318-47	•CHAIN, WELDLESS .....	EA	1
42	13	PAOZZ	4010-00-129-3221	81348	RRC271B562CL 2D8A072		EA	1
42	14	PAOZZ	4030-00-916-2141	96906	MS87006-53	•HOOK, CHAIN, S .....	EA	1
42	15	PAOZZ	5315-00-243-1169	80020	36344N24	•PIN, COTTER .....	EA	1
42	16	PAOZZ	5310-00-067-6356	96906	MS51922-57	NUT, SELF-LOCKING .....	EA	2
42	17	PAOZZ	5310-00-584-7888	96906	MS35338-51	WASHER, LOCK .....	EA	2
42	18	PAOZZ	5306-00-150-3075	96906	MS51937-8	BOLT, EYE .....	EA	2



TA 096568

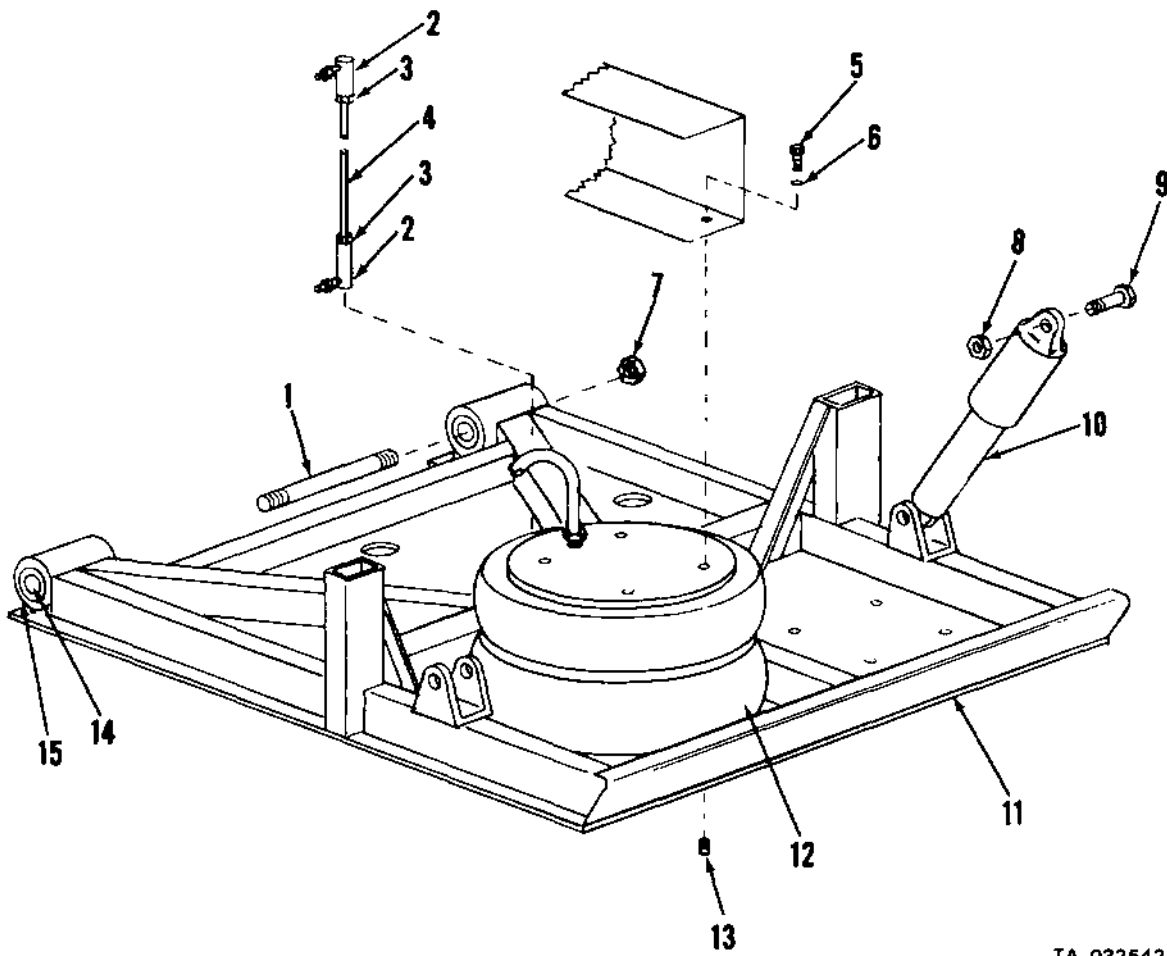
*Figure 43. Spare wheel carrier.*

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 1504 SPARE WHEEL CARRIER		
43	1	PAOZZ	5310-00-768-0318	96906	MS51967-14	NUT, PLAIN, HEXAGON .....	EA	4
43	2	PAOZZ	5310-00-809-599	96906	MS27183-17	WASHER, FLAT .A09, A10, A11, A12, A13, A14, C13, ..... 140, 26F, C13.140.C26F	EA	4
43	2	PAOZZ	5310-00-809-4085	96806	MS27183	WASHER, FLAT ..... C58, C59	EA	4
43	2	PAOZZ	5310-00-809-4085	96906	MS27183-16	WASHER, LOCK C14, C15, C16, C17, C18, C19, C61 ..... C62, 140, 26F	EA	4
43 4	3	PAOZZ	5305-00-044-4153	96906	MS90725-109	SCREW, CAP, HEXAGON HA09, A10, A11, A12, A13, A14 ..... C13, C58, C59, 140, 26F	EA	
43	3	PAOZZ	5305-00-915-8087	96906	MS18154-113	SCREW, CAP, HEXAGON HC14, C15, C16, C17, C18 ..... C19, C61, C62	EA	4
43	4	PAOZZ	2510-00-752-1160	19207	7521160	CARRIER, SPARE WHEEL SEMITRAILER .....	EA	1
43	5	PAOZZ	2510-00-752-1157	19207	7521157	•RATCHET, WHEEL .....	EA	1
43	6	PAOZZ	5315-00-298-1481	96906	MS24665-357	•PIN, COTTER.....	EA	1
43	7	PAOZZ	2510-00-752-1163	19207	7521163	•FRAME ASSEMBLY.....	EA	1
43	8	PAOZZ	5310-00-017-9721	19207	7418892	•NUT, PLAIN, HEXAGON .....	EA	2
43	9	PAOZZ	2510-00-752-1161	19207	7521161	•MEMBER.....	EA	1
43	10	PAOZZ	5306-00-017-9722	19207	7739666	•BOLT, U .....	EA	2
43	11	PAOZZ	4010-01-074-5029	19207	7521159	•WIRE ROPE .....	FT	V
43	12	PAOZZ	5310-00-637-9541	96906	MS35338-46	•WASHER, LOCK .....	EA	4
43	13	XDOZZ	5310-00-761-6882	96906	MS51967-2	•NUT, PLAIN, HEXAGON .....	EA	4
43	14	PAOZZ	3040-00-752-1156	19207	7521156	•PAWL .....	EA	1
43	15	PAOZZ	5320-00-285-1025	19207	8327759	•RIVET, SOLID PAWL ATTACHING.....	EA	1





TA 032542

Figure 44. Air mounted fifth wheel kingpin assembly, XM847, XM848, XM849, XM850, XM912, XM913.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 1504 FIFTH WHEEL		
44	1	-PAOZZ	5307-01-118-6021	19207	11684365	BOLT, ROD ..... C16, C17, C18, C19, C61, C62	EA	2
44	2	PAOZZ	3040-01-092-4125	19207	11684335	JOINT, BALL .....HEIGHT CONTROL ROD C16, C17, C18, C19, C61, C62	EA	2
44	3	PAOZZ	5310-00-853-9335	96906	MS35691-13	NUT, PLAIN, HEXAGON HEIGHT CONTROL ROD C16, C17, C18, C19, C61, C62	EA	2
44	4	PAOZZ	5307-01-111-7093	19207	11684334	ROD, HEIGHT CONTRO... C16, C17, C18, C19, C61, C62	EA	1
44	5	PAOZZ	5305-00-942-2196	96906	MS18154-60	SCREW, CAP, HEXAGON H..C16, C17, C18, C19, C61, C62	EA	8
44	6	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER, LOCK .....C16, C17, C18, C19, C61, C62	EA	8
44	7	PAOZZ	5310-00-016-7361	96906	MS21083N18	NUT, SELF-LOCKING ....C16, C17, C18, C19, C61, C62	EA	
44	8	PAOZZ	5310-00-488-9342	96906	MS21245-12	NUT, SELF-LOCKING, HE ..C16, C17, C18, C19, C61, C62	EA	4
44	9	PAOZZ	5305-00-082-6977	96906	MS90727-192	SCREW, CAP, HEXAGON ...C16, C17, C18, C19, C61, C62	EA	4
44	10	PAOZZ	2540-01-092-4133	19207	11684344	ABSORBER, SHOCK C16, C17, C18, C19, C61, C62	EA	2
44	11	XDOZZ		19207	11684362	PLATE ASSEMBLY ... C16, C17, C18, C19, C61, C62	EA	1
44	12	PAOZZ	2510-01-092-4046	19207	11684360	SPRING, AIR C16, C17, C18, C19, C61, C62 .....	EA	2
44	13	PAOZZ	5305-00-050-9215	96906	MS24667-52	SCREW, CAP, SOCKET HE ..C16, C17, C18, C19, C61, C62	EA	8
44	14	PAOZZ	2530-01-046-4695	19207	11684343	SLEEVE, INNER .....C16, C17, C18, C19, C61, C6..	EA	2
44	15	PAOZZ	5340-01-096-7556	19207	11684361	BUSHING, RUBBER..... C16, C17, C18, C19, C61, C62	EA	2

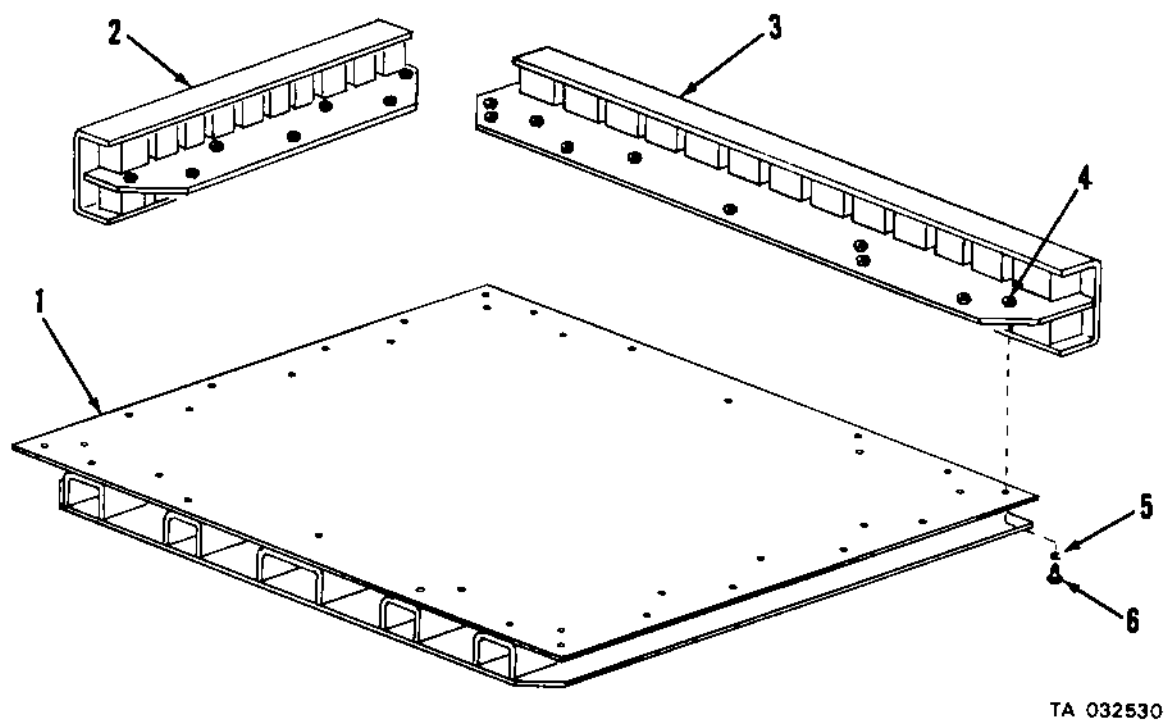
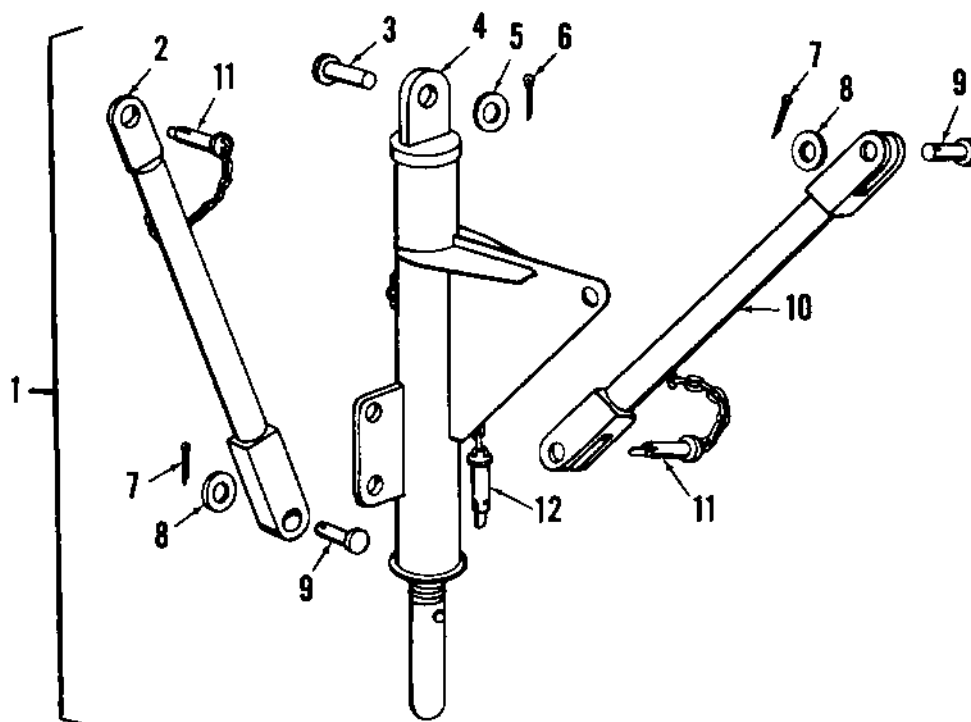


Figure 45. Resilient kingpin, XM844, XM845.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
45	1	PBOZZ	2510-01-109-2582	19207	11681251	FIFTH WHEEL PLATE RESILIENT KINGPIN C14, C15	EA	1
45	2	XBOZZ		19207	11681254	ABSORBER, SHOCK LONGITUDINAL POSITION C14, C15	EA	2
45	3	XB0ZZ		19207	11681253	SHOCK INSULATOR TRANSVERSE POSITION C14, C15	EA	2
45	4	PAOZZ	5310-00-732-0560	96906	MS51968-14	NUT, PLAIN, HEXAGON ..... C14, C15	EA	36
45	5	PAOZZ	5310-00-584-5272	96906	MS35338-48	WASHER, LOCK ..... C14, C15	EA	36
45	6	PAOZZ	5305-00-719-5221	96906	MS90727-113	SCREW, CAP, HEXAGON ..... C14, C15	EA	36



TA 096420

*Figure 46. Leveling jack.***E-104**

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 1507 LANDING AND LEVELING JACKS		
46	1	PBOZZ	2590-01-046-4882	19207	8747211	JACK, LEVELING-SUPPO LH A09, A10, A11, A12, A13, A14, C58, C59, 140, 26F	EA	1
46	1	PBOZZ	2590-01-049-8907	19207	11681272-1	SUPPORT, RETRACTABLE LH C13, C14, C15, C16, C17 C18, C19, C61, C62	EA	1
46	1	PBOZZ	2590-01-056-5416	19207	8747212	JACK, LEVELING-SUPPO RH A09, A10, A11, A12, A13, A14, C58, C59, 140, 26F	EA	1
46 1	1	PBOZZ	2590-01-052-9037	19207	11681272-2	SUPPORT, RETRACTABLE RH C13, C14, C15, C16, C17 C18, C19, C61, C62	EA	1
46	2	PBOZZ	2530-00-678-4093	19207	8747222	•BRACE .....	EA	1
46	3	PAOZZ	5315-00-904-7407	96906	MS20392-12C91	•PIN, STRAIGHT, HEADED .....	EA	2
46	4	PBOZZ	2530-00-678-4089	19207	874213	•HOUSING ASSY LH.. A09, A10, A11, A12, A13, A14 C58, C59, 140, 26F	EA	1
46	4	PBOZZ	2590-01-049-6759	19207	11681271-1	•HOUSING ASSEMBLY LHC13, C14, C15, C16, C17 C18, C19, C61, C62	EA	1
46	4	PBOZZ	2530-00-678-4090	19207	8747214	•HOUSING ASSY RH A09, A10, A11, A12, A13, A14. C58, C59, 140, 26F	EA	1
46	4	PBOZZ	2590-01-049-6760	19207	11681271-2	•HOUSING ASSEMBLY RH C13, C14, C15, C16, C17 C18, C19, C61, C62	EA	1
46	5	PAOZZ	5310-00-809-8541	96906	MS27183-27	•WASHER, FLAT .....	EA	1
46	6	PAOZZ	5315-00-013-7238	96906	MS24665-425	•PIN, COTTER.....	EA	1
46	7	PAOZZ	5315-00-849-9857	96906	MS24665-421	•PIN, COTTER.....	EA	2
46	8	PAOZZ	5310-00-809-8533	96906	MS27183-23	•WASHER, FLAT .....	EA	2
46	9	PAOZZ	5315-00-013-8143	96906	MS35810-38	•PIN, STRAIGHT, HEADED.....	EA	2
46	10	PBOZZ	2530-00-678-4091	19207	8747215	•BRACE A09, A10, A11, A12, A13, A14 ..... C58, C59, 140, 26F	EA	1
46	10	PBOZZ	2590-01-049-6758	19207	11681267	•BRACE ASSEMBLY C13, C14, C15, C16, C17..... C18, C19, C61, C62	EA	1
46	11	PAOZZ	4010-01-059-2093	19207	8747218-1	•PIN AND CHAIN.....	EA	2
46	12	PAOZZ	2530-00-678-4092	19207	8747218	•PIN AND CHAIN.....	EA	1

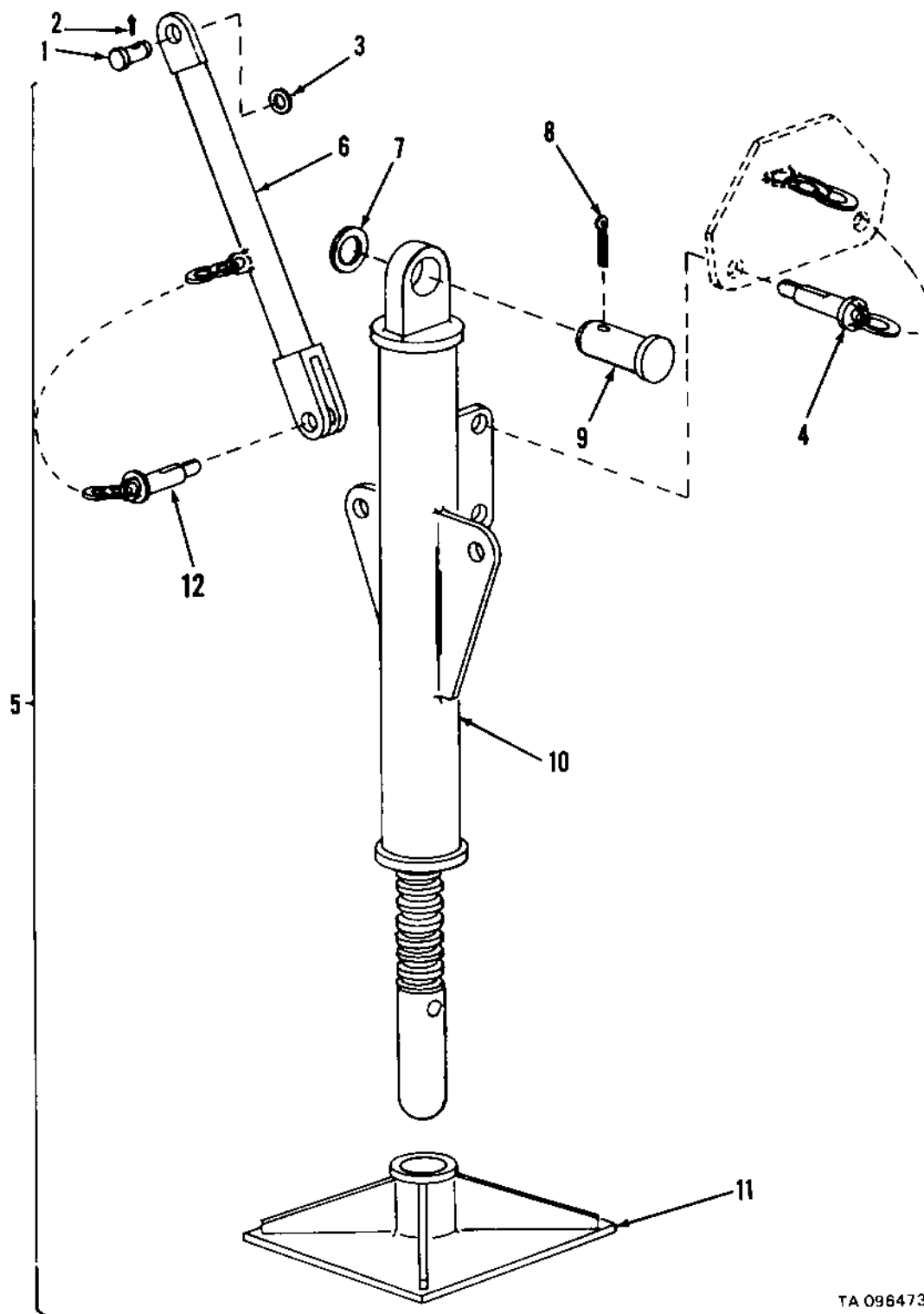


Figure 47. Leveling jack, center, XM738, XM739, XM739E1.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
47	1	PAOZZ	5315-00-013-8143	96906	MS35810-38	PIN, STRAIGHT, HEADED A11, 140, 26F .....	EA	6
47	2	PAOZZ	5315-00-849-9857	96906	MS24665-421	PIN, COTTER A11, 140, 26F .....	EA	6
47	3	PAOZZ	5310-00-809-8533	96906	MS27183-23	WASHER, FLAT A11, 140, 26F .....	EA	6
47	4	PAOZZ	2530-00-678-4092	19207	8747218	PIN AND CHAIN ASSY A11, 140, 26F .....	EA	2
47	5	PBOZZ	2590-01-093-0661	40670	9772075	JACK, LEVELING-SUPPO A11, 140, 26F .....	EA	2
47	6	PBOZZ	2590-01-091-7622	40670	9772076	•BRACE ASSEMBLY, LEVE A11, 140, 26F .....	EA	3
47	7	PAOZZ	5310-00-809-8541	96906	MS27183-27	•WASHER, FLAT A11, 140, 26F .....	EA	1
47	8	PAOZZ	5315-00-013-7238	96906	MS24665-425	•PIN, COTTER A11, 140, 26F .....	EA	1
47	9	PAOZZ	5315-00-904-7407	96906	MS20392-12091	•PIN, STRAIGHT, HEADED A11, 140, 26F .....	EA	1
47	10	XAOZZ		40670	9772074	•HOUSING, ASSY, LEVELI A11, 140, 26F .....	EA	1
47	11	PAOZZ	2590-00-856-1952	19207	8747207	•SHOE, VEHICLE SUPPOR SUPPORT A11, 140, 26F .....	EA	
1								
47	12	PAOZZ	2530-00-678-4092	19207	8747218	•PIN AND CHAIN ASSY A11, 140, 26F .....	EA	3



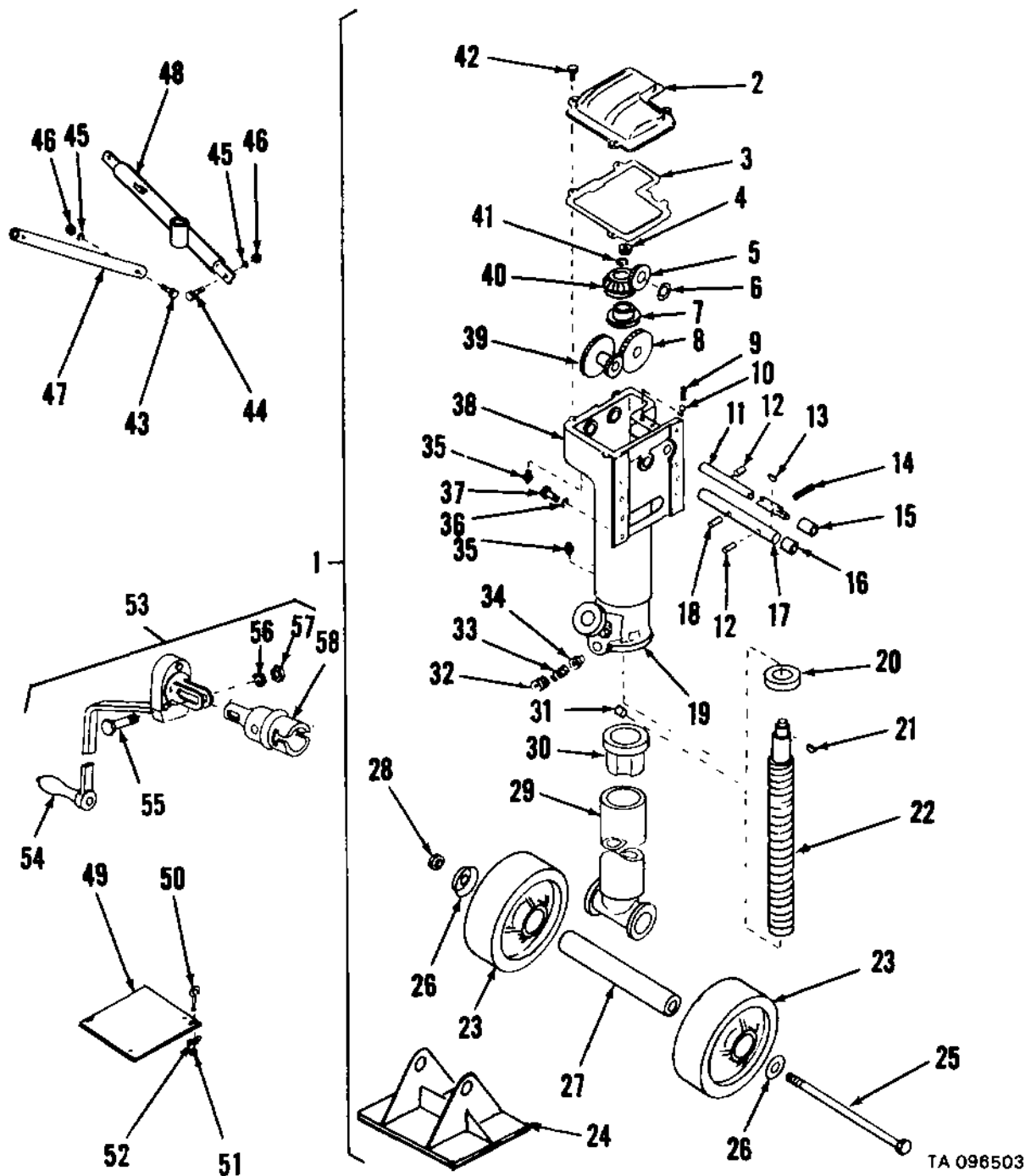


Figure 48. Landing gear (all models except XM847, XM848, XM849, XM850, XM912, XM913).

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
48	1	PAOZZ	2590-00-78-0822	19207	10900549	LEG, SEMITRAILER LANDING GEAR, LEFT HAND A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	EA	1
48	1	PAOZZ	2590-00-897-6049	19207	10906769	LEG, SEMITRAILER RET LH .....	EA	1
48	1	PAOZZ	2590-00-770-3430	19207	7998651	LEG, SEMITRAILER LANDING GEAR, RIGHT HAND	EA	EA
48	1	PAOZZ	2590-01-093-4289	19207	10906770	A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	EA	1
48	2	XAOZZ		19207	10900555	LEG, SEMITRAILER SUP RH ..... A10 •COVER, ACCESS GEAR BOX, LEFT HAND .....	EA	1
48	2	PAOZZ	2530-00-893-4100	19207	7974887	A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F •COVER, ACCESS GEAR BOX, RIGHT HAND .....	EA	1
48	3	PAOZZ	5330-00-513-9933	19207	7974885	A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F •GASKET A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	EA	1
48	4	PAFZZ	5310-00-616-6857	80205	NAS1022A17	•NUT, SELF-LOCKING, HE U/O NHA 10900549, 10906769	EA	
48	5	PAFZZ	3020-00-701-4980	19207	8376574	7998651, 0906770 A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F •GEAR, BEVEL A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F		
48	6	PAFZZ	5310-00-220-6848	19207	8376583	•WASHER, FLAT A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	EA	
48	7	PAFZZ	3110-00-100-4220	96906	MS19081-137	•BEARING, ROLLER LANDING GEAR OPERATING . SCREW, UPPER, RIGHT HAND	EA	1
48	7	PAFZZ	3110-00-100-0515	19207	706820	A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F •CUP, TAPERED ROLLER LANDING GEAR OPERATING SCREW, LEFT HAND	EA	1
48	8	PAFZZ	3020-00-562-0488	19207	8376611	A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F •GEAR CLUSTER, SPUR .....	EA	1
48	9	PAFZZ	5360-00-679-5658	19207	8376590	A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F •SPRING, HELICAL .....	EA	1
48	10	PAFZZ	3110-00-100-6164	21450	169112	A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F •BALL, BEARING .....	EA	1
48	11	PAFZZ	2590-00-800-7756	19207	7045783	A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F •SHAFT, STRAIGHT .....	EA	1
48	12	PAFZZ	5315-00-014-2543	96906	MS35671-64	A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F •PIN, GROOVED, HEADLES .....	EA	2
48	13	PAFZZ	5315-00-616-5530	96906	MS35756-15	A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F •KEY, WOODRUFF .....	EA	1
48	14	PAFZZ	5315-00-810-3704	96906	MS16562-80	A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F •PIN, SPRING .....	EA	1
48	15	PBFZZ	3120-00-544-1535	80037	J-1166	A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F •BEARING, SLEEVE .....	EA	1
48	16	PBFZZ	3120-00-701-4995	19207	8379857	A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F •BEARING, SLEEVE .....	EA	2
48	17	PBFZZ	3040-01-052-6236	19207	7045782	A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F •SHAFT .....	EA	1
48	18	PAFZZ	5315-00-844-5836	96906	MS16562-65	A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F •PIN, SPRING .....	EA	1
48	19	PAFZZ	2590-01-054-0260	19207	10900552	A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F •LEG, SEMITRAILER .....	EA	1
48	19	PAFZZ	2590-01-053-0482	80837	J3227-6R-G	A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F •LEG ASSEMBLY, LANDIN UPPER, RIGHT HAND LANDING GEAR LEG .....	EA	1
48	20	PAFZZ	3110-00-117-0759	96906	MS17169-12	A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F •BEARING, ROLLER .....	EA	1

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
48 1	21	PAFZZ	5315-00-515-0495	19207	8376593	•KEY, MACHINE A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F		EA
48 1	22	PAFZZ	2530-00-670-5334	19207	7045777	•SCREW A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F		EA
48	23	PAOZZ	2530-01-050-5793	19207	11665871	•WHEEL, METAL TIRE ..... A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	EA	2
48	24	PAOZZ	2590-00-847-0390	19207	8735553	•SHOE, VEHICLE SUPPOR ..... A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	EA	1
48	25	PAOZZ	5306-00-322-7365	19207	8720979	•BOLT, MACHINE ..... A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	EA	1
48	25	PAOZZ		21450	180882	•BOLT, MACHINE ..... A10	EA	1
48	26	PAOZZ	2530-00-774-4947	19207	7744947	•COVER, ACCESS ..... A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	EA	2
48	27	PAOZZ	4710-00-322-7264	19207	8720974	•PIPE, METALLIC ..... A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	EA	1
48	27	PAOZZ	2590-01-093-4155	19207	8735554	•AXLE, LANDING LEG, FO ..... A10	EA	1
48	28	PAOZZ	5310-00-841-2041	96906	MS35692-33	•NUT, PLAIN, SLOTTED, H ..... A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	EA	1
48	28	PAOZZ	5310-00-849-6882	96906	MS35692-94	•NUT, PLAIN, SLOTTED, H ..... A10	EA	1
48	29	PAFZZ	2590-00-896-9025	19207	7045779	•LEG, SEMITRAILER ..... A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	EA	1
48	30	PAFZZ	5310-00-586-1767	19207	8376595	•NUT, SLEEVE A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	EA	1
48	31	PAFZZ	5315-00-316-1063	19207	8376596	•PIN, SHOULDER ..... A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	EA	2
48	32	PAOZZ	5365-00-678-6872	19207	8379625	•PLUG, MACHINE THREAD ..... A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	EA	1
48	33	PAOZZ	5340-00-510-8828	19207	8735555	•CLIP, SPRING TENSION ..... A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	EA	1
48	34	PAOZZ	2590-00-510-8829	19207	8376585	•GIB, JACK, LEVELING ..... A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	EA	1
2 48	35	PAOZZ	4730-00-050-4208	96906	MS15003-1	•FITTING, LUBRICATION ..... A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F		
48	36	PAOZZ	5310-00-584-5272	96906	MS35338-48	•WASHER, LOCK ..... A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	EA	9
48	37	PAOZZ	5305-00-725-4183	96906	MS90726-113	•SCREW, CAP, HEXAGON ..... A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	EA	9
48	38	XDFZZ		19207	10900554	•BOXK, GEAR UPPER LEG, LH ..... A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	EA	1
48	38	XDFZZ		19207	7034589	•BOX, GEAR UPPER LEG, RH ..... A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	EA	1
48	39	PAFZZ	3020--00-562-0487	19207	8376610	•GEAR CLUSTER, SPUR ..... A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	EA	1
48 EA	40 1	PAFZZ	3020-00-319-6011	19207	8379855	•GEAR, BEVEL A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F		
48	41	PAFZZ	5340-00-510-8831	19207	7974888	•BAND, RETAINING ..... A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	EA	1
48	42	PAOZZ	5305-00-680-9197	19207	593599	•SCREW, ASSEMBLED WAS ..... A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	EA	4
48	43	PAOZZ	5305-00-725-4138	96906	MS90726-170	SCREW, CAP, HEXAGON ..... A09, A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F	EA	2
48	43	PAOZZ	5305-00-716-8179	96906	MS90726-121	SCREW, CAP, HEXAGON H ..... A10	EA	4
48	44	PAOZZ	5305-00-727-5677	96906	MS90726-162	SCREW, CAP, HEXAGON ..... A11, A12, A13, A14, C13, C14, C15, C58, C59, 140, 26F		

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
48	44	PAOZZ	5305-00-725-4183	96906	MS90726-113	SCREW, CAP, HEXAGON H.....A09, A10, A14	EA	4
48	45	PAOZZ	5310-00-584-5272	96906	MS35338-48	WASHER, LOCK ..... A10	EA	8
48	45	PAOZZ	5310-00-584-5272	96906	MS35338-48	WASHER, LOCK ..... A09, A14	EA	4
48	45	PAOZZ	5310-00-820-6653	80045	23MS35338-50	WASHER, LOCK ..... A09, A14	EA	4
48	45	PAOZZ	5310-00-820-6653	80045	23MS35338-50	WASHER, LOCK A11, A12, A13, C13, C14, C15, C58, C, 59, 140-26F	EA	4
48	46	PAOZZ	5310-00-732-0560	96906	MS51968-14	NUT, PLAIN, HEXAGON ..... A09, A14	EA	4
48	46	PAOZZ	5310-00-732-0560	96906	MS51968-14	NUT, PLAIN, HEXAGON ..... A10	EA	8
48	46	PAOZZ	5310-00-763-8905	96906	MS51968-20	NUT, PLAIN, HEXAGON ..... A09, A14	EA	4
48	46	PAOZZ	5310-00-763-8905	96906	MS51968-20	NUT, PLAIN, HEXAGON A11, A12, A13, C13, C14, C15, C58	EA	4
2								
48	47	PBOZZ	2590-01-053-5140	19207	10882215	C59, 140, 26F BRACE A09, A10, A11, A12, A13, C13, C14, C15, C58	EA	1
48	48	PBOZZ	2510-01-056-5194	19207	10882216	C59, 140-26F BRACE ASSEMBLY LH A11, A12, A13, C13, C14, C15, 140, 26F	EA	1
48	48	PBOZZ	2510-01-056-6086	19207	10882220	BRACE, INNER SUPPORT . A09, A10, A14, C58, C59	EA	1
48	48	PBOZZ	2510-01-056-6086	19207	10882220	BRACE, INNER SUPPORT A09, A10, A11, A12, A13, C13, C14, C15, C58, C59, 140, 26F	EA	1
48	49	PAOZZ	2540-00-773-9385	19207	8737178	PLATE, SUPPORT A09, A10, A11, A12, A13, C13, C14	EA	2
48	50	PAOZZ	5306-01-034-3000	19207	11589899	BOLT, EYE ..... A09, A10, A11, A12, A13, C13, C14	EA	2
48	51	PAOZZ	5310-00-880-7744	96906	MS51967-5	NUT, PLAIN, HEXAGON A09, A10, A11, A12, A13, C13, C14	EA	1
48	52	PAOZZ	5310-00-828-8189	96906	MS35425-41	NUT, PLAIN, WING A09, A10, A11, A12, A13, C13, C14	EA	1
48	53	XD0ZZ		19207	10882190	CRANK ASSEMBLY ..... C14, C15	EA	2
48	54	PAOZZ	2530-00-040-2856	19207	8376602	•RATCHET LANDING GEAR A09, A10, A11, A12, A13, C13, C14, C15, C58, C59, 140, 26F	EA	1
48	55	PAOZZ	5305-00-782-9489	96906	MS90728-66	•SCREW, CAP, HEXAGON A09, A10, A11, A12, A13, C13, C14, C15, C58, C59, 140, 26F	EA	1
48	56	PAOZZ	5310-00-637-9541	96906	MS35338-46	•WASHER, LOCK A09, A10, A11, A12, A13, C13, C14	EA	1
48	57	PAOZZ	5310-00-732-0558	96906	MS51967-8	•NUT, PLAIN, HEXAGON A09, A10, A11, A12, A13, C13, C14	EA	1
48	58	PAOZZ	2590-01-092-4047	19207	10900556	•SOCKET ..... A09, A10, A11, A12, A13, C13, C14	EA	1
						..... C15, C58, C59, 140, 26F		



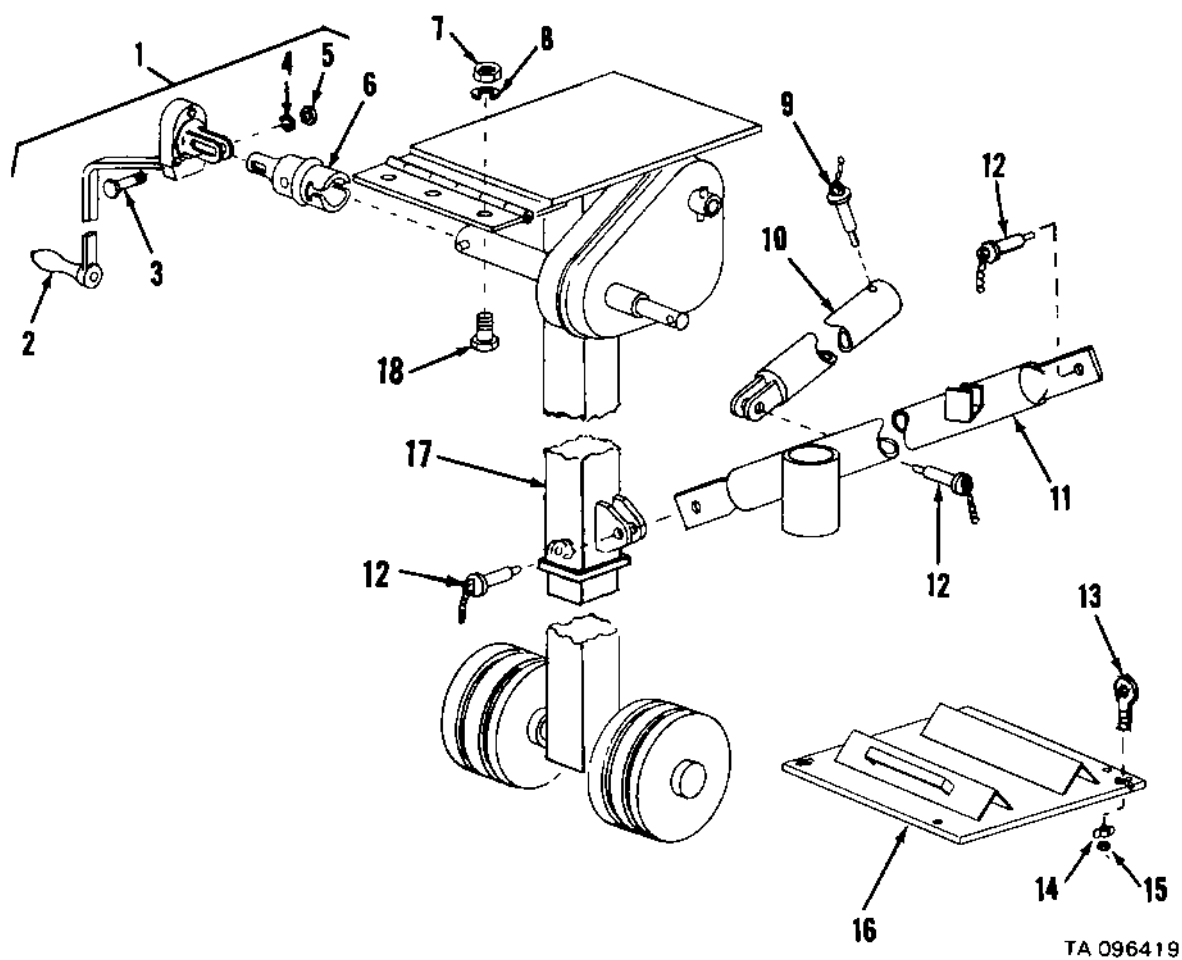
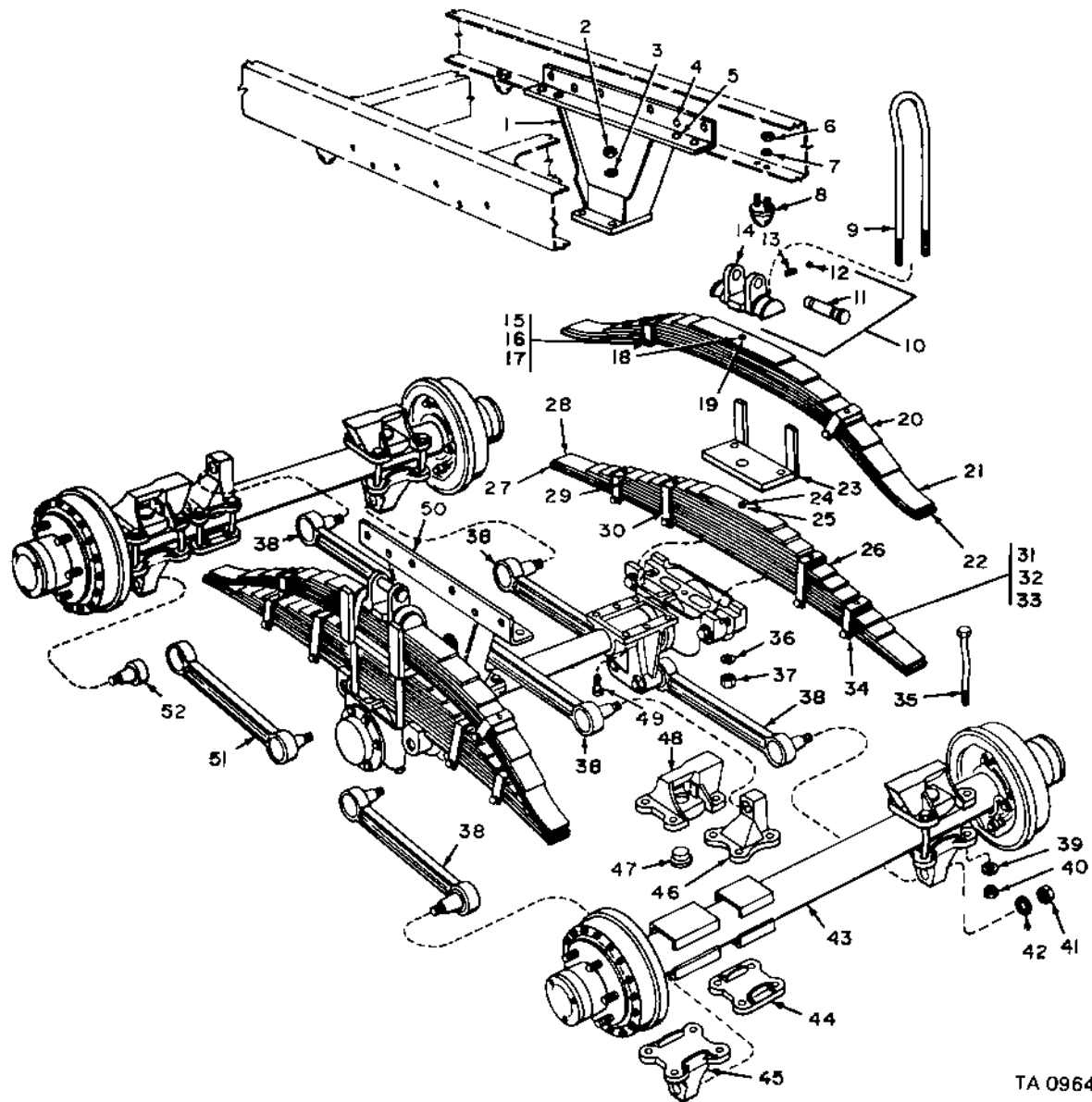


Figure 49. Swing-up landing gear, XM847, XM848, XM849, XM850, XM912, XM913.

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
49	1	PAOZZ	2590-00-856-1950	19207	10882198	CRANK ASSEMBLY ... C16, C17, C18, C19, C61, C62	EA	2
49	2	PAOZZ	2530-00-040-2856	19207	8376602	•RATCHET ..... C16, C17, C18, C19, C61, C62	EA	1
49	3	PAOZZ	5305-00-782-9489	96906	MS090728-66	•SCREW CAP HEXAGONC16, C17, C18, C19, C61, C62	EA	1
49	4	PAOZZ	5310-00-637-9541	96906	MS35338-46	•WASHER, LOCK ..... C16, C17, C18, C19, C61, C62	EA	1
49	5	PAOZZ	5310-00-732-0558	96906	MS51967-8	•NUT PLAIN HEXAGONC16, C17, C18, C19, C61, C62	EA	1
49	6	PAOZZ	2590-01-092-4047	19207	10900556	•SOCKET-RACHET, CRANC16, C17, C18, C19, C61, C62	EA	1
49	7	PAOZZ	5310-00-732-0560	96906	MS51968-14	NUT, PLAIN, HEXAGONC16, C17, C18, C19, C61, C62	EA	6
49	8	PAOZZ	5310-00-584-5272	96906	MS35338-48	WASHER, LOCK ..... C16, C17, C18, C19, C61, C62	EA	6
49	9	PAOZZ	2590-01-087-6922	19207	11684301-1	PIN AND CHAIN ..... C16, C17, C18, C19, C61, C62	EA	2
49	10	PBOZZ	2590-01-088-5903	19207	11684303	BRACE ASSEMBLY REARC16, C17, C18, C19, C61, C62	EA	2
49	11	PBOZZ	2590-01-087-8633	19207	11681674-1	BRACE SIDE, LH ..... C16, C17, C18, C19, C61, C62	EA	1
49	11	PBOZZ	2590-01-087-8634	19207	11681674-2	BRACE SIDE RH ..... C16, C17, C18, C19, C61, C62	EA	1
49	12	PAOZZ	2530-00-678-4092	19207	8747218	PIN AND CHAIN ..... C16, C17, C18, C19, C61, C62	EA	6
49	13	PAOZZ	5306-01-034-3000	19207	11589899	EYEBOLT ..... C16, C17, C18, C19, C61, C62	EA	4
49	14	PAOZZ	5310-00-828-8189	96906	MS35425-41	NUT, PLAIN, WING .... C16, C17, C18, C19, C61, C62	EA	4
49	15	PAOZZ	5310-00-880-7744	96906	MS51967-5	NUT, PLAIN, HEXAGONC16, C17, C18, C19, C61, C62	EA	8
49	16	PAOZZ	2590-01-033-0703	19207	11681530	SHOE, VEHICLE SUPPORC16, C17, C18, C19, C61, C62	EA	2
49	17	PAOZZ	2590-01-102-9031	19207	11681673-1	LEG, SEMITRAILER RETC16, C17, C18, C19, C61, C62	EA	1
49	17	PAOZZ	2590-01-096-3307	19207	11681673-2	LEG, SEMITRAILER RETC16, C17, C18, C19, C61, C62	EA	1
49	18	PAOZZ	5305-00-725-4187	96906	MS90726-114	SCREW, CAP HEXAGON LANDING GEAR ATTACH. ..... C16, C17, C18, C19, C61, C62	EA	6



TA 096475

Figure 50. Tandem suspension, XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824.



## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 16 SPRINGS AND SHOCK ABSORBERS GROUP 1601 SPRINGS		
50	1	XBFZZ		19207	8759077	BRACKET ASSEMBLY RHA09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	1
50	2	PAFZZ	5310-00-763-8901	96906	MS51968-23	NUT, PLAIN, HEXAGON A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	12
50	3	PAFZZ	5310-00-052-6454	96906	MS35340-51	WASHER, LOCK ..... A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	12
50	4	PAFZZ	5320-00-011-9285	21450	119285	RIVET, SOLID A09, A10, A11, A12, A13, A14 ..... ..... C13, C14, C58, C59, 140, 26F	EA	12
50	5	PAFZZ		21450	119286	RIVET, SOLID A09, A10, A11, A12, A13, A14 ..... ..... C13, C14, C58, C59, 140, 26F	EA	8
50	6	PAOZZ	5310-00-732-0558	96906	MS51967-8	NUT, PLAIN, HEXAGON A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	8
50	7	PAOZZ	5310-00-407-9566	96906	MS35338-45	WASHER, LOCK A09, A10, A11, A12, A13, A14 ..... ..... C13, C14, C58, C59, 140, 26F	EA	8
50	8	PAOZZ	5340-00-740-9335	19207	7409335	BUMPER, RUBBER SPRING A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	4
50	9	PAOZZ	5306-00-647-1029	19207	8758919	BOLT, V S, 3/4-26UNF-2A, 2-0/16IN A09, A10, A11, A12, ..... A13, A14 C13, C14, C58, C59, 140, 26F	EA	4
50	10	PBFZZ	2510-00-7373221	19207	7373221	SEAT, SUSPENSION A09, A10, A11, A12, A13, A14 . ..... C13, C14, C58, C59, 140, 26F	EA	2
50	11	PBFZZ	5315-00-699-8465	19207	7539661	•PIN, GROOVED, HEADED A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	1
50	12	PBFZZ	3110-00-943-6113	96906	MS19060-1013	•BALL, BEARING A09, A10, A11, A12, A13, A14 ..... ..... C13, C14, C58, C59, 140, 26F	EA	1
50	13	PAFZZ	5360-00-692-6059	19207	7373229	•SPRING, HELICAL A09, A10, A11, A12, A13, A14 .... ..... C13, C14, C58, C59, 140, 26F	EA	1
50 1	14	PBFZZ	2510-01-092-4059	19207	7521795	•SEAT, SPRING, SUSPENS A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	
50	15	PAFZZ	5310-00-880-7746	96906	MS51968-5	NUT, PLAIN, HEXAGON A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	4
50	16	PBFZZ	5365-01-079-2267	19207	8699566	SPACER, SLEEVE A09, A10, A11, A12, A13, A14 ..... ..... C13, C14, C58, C59, 140, 26F	EA	4
50	17	PAFZZ	5305-00-225-9101	96906	MS90726-46	SCREW, CAP, HEXAGON H A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	4
50	18	PAFZZ	5305-00-017-9723	19207	8758918	SCREW, MACHINE A09, A10, A11, A12, A13, A14 .... ..... C13, C14, C58, C59, 140, 26F	EA	2
50	19	PAFZZ	5310-00-880-7745	96906	MS51968-1	NUT, PLAIN, HEXAGON A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	2
50	20	PBFZZ	2510-00-647-0907	19207	8758890	SPRING, ASSEMBLY, LEA A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	2
50	21	XDFZZ	2510-00-647-0908	19207	8758900	SPRING, LEAF A09, A10, A11, A12, A13, A14 ..... ..... C13, C14, C58, C59, 140, 26F	EA	2
50	22	PBFZZ	2510-00-647-0909	19207	8758901	SPRING, LEAF A09, A10, A11, A12, A13, A14 ..... ..... C13, C14, C58, C59, 140, 26F	EA	2
50	23	PBOZZ	1440-00-717-5144	19207	10869572	SPACER AND SUPPORTS A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	2
50	24	PAFZZ	5306-00-274-0958	19207	7368675	BOLT, MACHINE A09, A10, A11, A12, A13, A14 ..... ..... C13, C14, C58, C59, 140, 26F	EA	2
50	25	PAFZZ	5310-00-926-5916	96906	MS51968-12	NUT, PLAIN, HEXAGON A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	2
50	26	PBFZO	2510-00-736-8629	19207	7368629	SPRING ASSEMBLY, LEA A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	2
50	27	PAFZZ	2510-00-736-8641	19207	7368641	SPRING, LEAF A09, A10, A11, A12, A13, A14 ..... ..... C13, C14, C58, C59, 140, 26F	EA	2
50	28	PAFZZ	2510-00-736-8642	19207	7368642	SPRING, LEAF A09, A10, A11, A12, A13, A14 ..... ..... C13, C14, C58, C59, 140, 26F	EA	2
50	29	PAFZZ	2510-00-736-8677	19207	7368677	ALIGNMENT CLIP, LEAF A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	4



## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
50	30	PAFZZ	2510-00-736-8676	19207	7368676	ALIGNMENT CLIP, LEAF A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	4
50	31	PAFZZ	5320-00-735-5198	96906	MS35743-91	RIVET, SOLID A09, A10, A11, A12, A13, A14..... ..... C13, C14, C58, C59, 140, 26F	EA	8
50	32	PAFZZ	5310-00-732-0558	96906	MS51967-8	NUT, PLAIN, HEXAGON A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	8
50	33	PAFZZ	5345-00-752-1737	5365-00	752-1737	SPACER, SLEEVE A09, A10, A11, A12, A13, A14 ..... ..... C13, C14, C58, C59, 140, 26F	EA	8
50	34	PAFZZ	5306-01-078-3958	19207	7521739	BOLT, EXTERNALLY REL A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	8
50	35	PAFZZ	5306-00-074-2366	19207	7060037	BOLT, MACHINE A09, A10, A11, A12, A13, A14 ..... ..... C13, C14, C58, C59, 140, 26F	EA	24
50	36	PAOZZ	5310-00-584-7888	96906	MS35338-51	WASHER, LOCK A09, A10, A11, A12, A13, A14..... ..... C13, C14, C58, C59, 140, 26F	EA	8
50 8	37	PAOZZ	5310-00-897-5920	19207	10869934	NUT, PLAIN, HEXAGON A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	
50	38	PAFZZ	2530-00-678-9029	19207	8757685	TORQUE ROD, TANDEM A A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	6
50	39	PAFZZ	5310-00-052-6454	96906	MS35340-51	WASHER, LOCK A09, A10, A11, A12, A13, A14..... ..... C13, C14, C58, C59, 140, 26F	EA	24
50	40	PAFZZ	5310-00-797-4870	19207	10896688	NUT, SELF-LOCKING A09, A10, A11, A12, A13, A14. ..... C13, C14, C58, C59, 140, 26F	EA	24
50	41	PAFZZ	5310-00-24-0-9332	19207	8327988	NUT, PLAIN, HEXAGON A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	12
50	42	PAFZZ	5310-00-584-7889	96904	MS35338-53	WASHER, LOCK A09, A10, A11, A12, A13, A14..... ..... C13, C14, C58, C59, 140, 26F	EA	12
50	43	XDOZZ		19207	8758911	AXLE ASSEMBLY A09, A10, A11, A12, A13, A14..... ..... C13, C14, C58, C59, 140, 26F	EA	2
50	44	PBFZZ	2530-00-752-1834	19207	7521834	BRACKET, PLATE A09, A10, A11, A12, A13, A14 ..... ..... C13, C14, C58, C59, 140, 26F	EA	2
50	45	PBFZZ	2530-00-752-1833	19207	7521833	BRACKET A09, A10, A11, A12, A13, A14 ..... ..... C13, C14, C58, C59, 140, 26F	EA	4
50	46	PBFZZ	2530-00-752-1832	19207	7521832	BRACKET, TORQUE ROD A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	2
50	47	PBFZZ	2510-00-752-1639	19207	7521639	PLATE A09, A10, A11, A12, A13, A14..... ..... C13, C14, C58, C59, 140, 26F	EA	4
50 4	48	XBFZZ		19207	7059832	BRACKET ASSEMBLY A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	
50	49	PAFZZ	5305-00-727-8816	96906	MS90726-187	SCREW, CAP, HEXAGON H A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	12
50	50	XBFZZ		19207	8758881	BRACKET ASSEMBLY LH A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	1
50	51	XAFRZZ		19207	8757684	TORQUE ROD, TANDEM A A09, A10, A11, A12, A13, A14 ..... C13, C14, C58, C59, 140, 26F	EA	6

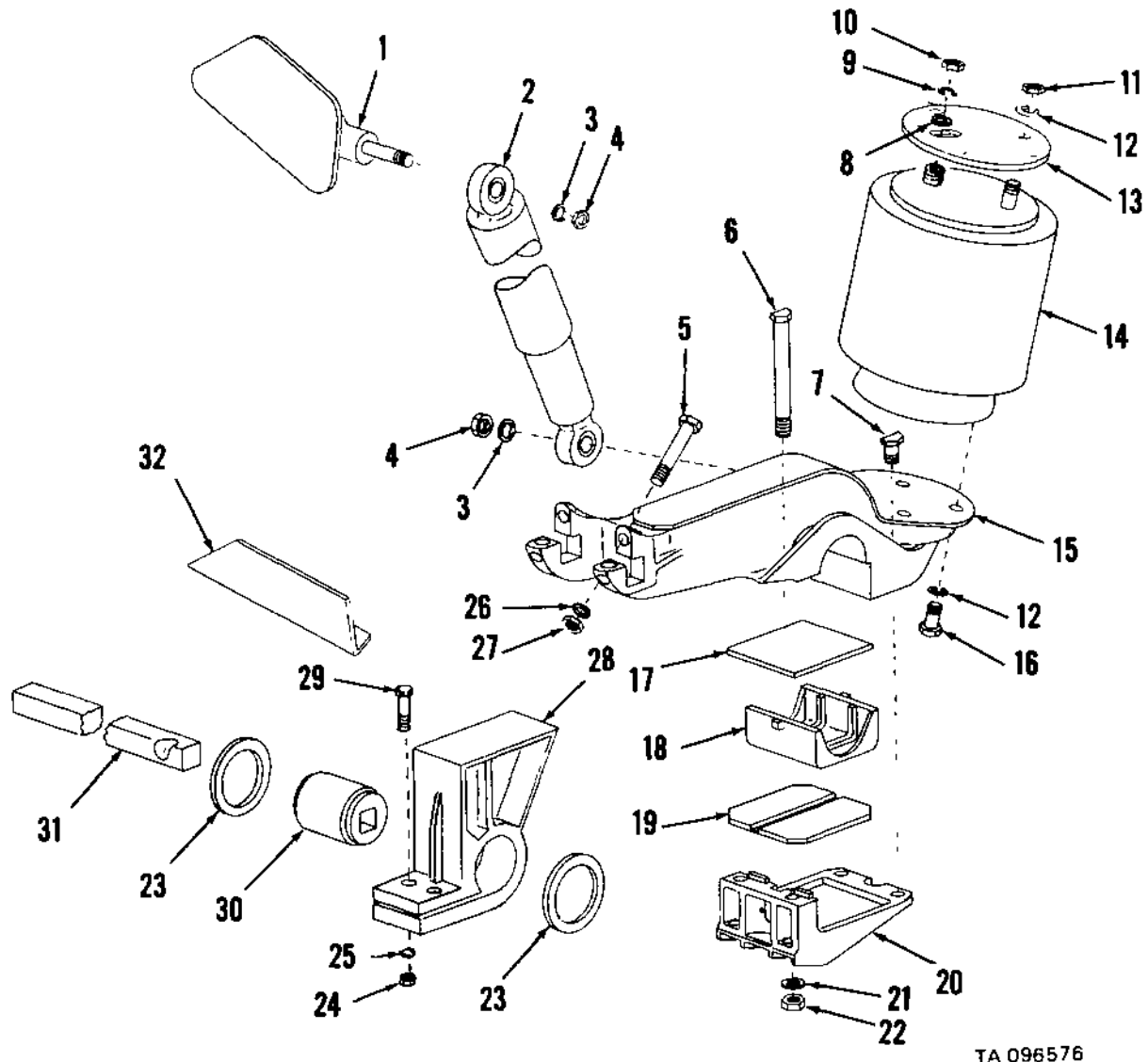


Figure 51. Air suspension system components, XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913.

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
51	1	XADZZ		19207	11684348	BRACKET UPPER SHOCK MOUNTC14, C15, C16, C17, C18 C19, C61, C62	EA	2
51	2	PAOZZ	2540-00-990-0499	19207	11684357	ABSORBER, SHOCK .....C14, C15, C16, C17, C18 C19, C61, C62	EA	4
51	3	PAOZZ	5310-00-595-6612	96906	MS20002-12	WASHER, FLAT .....C14, C15, C16, C17, C18 C19, C61, C62	EA	8
51	4	PAOZZ	5310-00-067-6356	96906	MS51922-57	NUT, SELF-LOCKING .....C14, C15, C16, C17, C18 C19, C61, C62	EA	8
51	5	PAOZZ	5305-00-928-9636	96906	MS90727-199	SCREW, CAP, HEXAGON H EQUALIZING ARM ATTACHING .....C14, C15, C16, C17, C18 C19, C61, C62	EA	8
51	6	PAOZZ	5306-01-100-6256	19207	11684337-2	BOLT, ROD .....C14, C15, C16, C17, C18 C19, C61, C62	EA	8
51	7	PAOZZ	5306-01-104-9000	19207	11684337-1	BOLT, ROD .....C14, C15, C16, C17, C18 C19, C61, C62	EA	8
51	8	PAOZZ	5310-00-809-8533	96906	MS27183-23	WASHER, FLAT C14, C15, C16, C17, C18 ..... C19, C61, C62	EA	4
51	9	PAOZZ	5310-00-584-7888	96906	MS35338-51	WASHER, LOCK AIR SPRING ATTACHING C14, C15, C16, C17, C18 C19, C61, C62	EA	4
51	10	PAOZZ	5310-00-763-8901	96906	MS51968-23	NUT, PLAIN, HEXAGON .....C14, C15, C16, C17, C18 C19, C61, C62	EA	4
51	11	PAOZZ	5310-00-768-0318	96906	MS51967-14	NUT, PLAIN, HEXAGON .....C14, C15, C16, C17, C18 C19, C61, C62	EA	20
51	12	PAOZZ	5310-00-584-5272	96906	MS35338-48	WASHER, LOCK .....C14, C15, C16, C17, C18 C19, C61, C62	EA	20
51	13	XAOZZ		19207	11684350	PLATE, MOUNTING AIR RIDE SUSPENSION C14, C15, C16, C17, C18 C19, C61, C62	EA	4
51	14	PAOZZ	2510-01-092-4050	19207	11684366	SPRING, AIR .....C14, C15, C16, C17, C18 C19, C61, C62	EA	4
51 2	15	PAOZZ	2540-01-092-4054	19207	11684352-1	ARM, EQUALIZING LEFT HAND C14, C15, C16, C17, C18  C19, C61, C62	EA	
51	15	PAOZZ	2540-01-092-4055	19207	11684352-2	ARM, EQUALIZING RIGHT HAND C14, C15, C16, C17, C18 C19, C61, C62	EA	2
51	16	PAOZZ	5305-00-044-4153	96906	MS90725-109	SCREW, CAP, HEXAGON ..C14, C15, C16, C17, C18 C19, C61, C62	EA	16
51	17	PAOZZ	2540-01-092-4053	19207	11684336	WRAPPER, RUBBER.....C14, C15, C16, C17, C18 C19, C61, C62	EA	4
51	18	PAOZZ	2530-01-092-6385	19207	11684353	ADAPTER, AXLE.....C14, C15, C16, C17, C18 C19, C61, C62	EA	4
51	19	PAOZZ	2530-01-092-6386	19207	11684356	PAD, RUBBER .....C14, C15, C16, C17, C18 C19, C61, C62	EA	4
51	20	PAOZZ	2540-01-092-4052	19207	11684354	CAP .....C14, C15, C16, C17, C18 C19, C61, C62	EA	4
51	21	PAOZZ	5310-00-282-4776	96906	MS20002-14	WASHER, FLAT .....C14, C15, C16, C17, C18 C19, C61, C62	EA	16
51	22	PAOZZ	5310-00-225-6992	96906	MS51922-65	NUT, SELF-LOCKING .....C14, C15, C16, C17, C18 C19, C61, C62	EA	16
51	23	PAOZZ	5310-00-990-5322	19207	11684338	SPACER .....C14, C15, C16, C17, C18 C19, C61, C62	EA	8
51	24	PAOZZ	5310-00-269-4040	96906	MS51922-49	NUT, SELF-LOCKING C14, C15, C16, C17, C18 ..... C19, C61, C62	EA	8
51	25	PAOZZ	5310-00-149-9126	96906	MS20002-10	WASHER, FLAT .....C14, C15, C16, C17, C18 C19, C61, C62	EA	8
51	26	PAOZZ	5310-00-595-6612	96906	MS20002-12	WASHER, FLAT .....C14, C15, C16, C17, C18 C19, C61, C62	EA	8
51	27	PAOZZ	5310-00-067-6356	96906	MS51922-57	NUT, SELF-LOCKING .....C14, C15, C16, C17, C18 C19, C61, C62	EA	8
51	28	XAOZZ		19207	11684351	BRACKET, FRAME AIR RIDE SUSPENSION ..... C14, C15, C16, C17, C18 C19, C61, C62	EA	4
51	29	PAOZZ	5305-00-726-2559	96906	SCREW, CAP, HEXAGON H .....C14, C15, C16, C17, C18 C19, C61, C62	EA	8	
51	30	PAOZZ	5365-00-023-8241	19207	11684355	BUSHING, RUBBER.....C14, C15, C16, C17, C18 C19, C61, C62	EA	4
51	31	XAOZZ		19207	11684355	BUSHING, RUBBER.....C14, C15, C16, C17, C18 C19, C61, C62	EA	2
51	32	XAOZZ		19207	11684349	BRACE, ANGLE .....C14, C15, C16, C17, C18 C19, C61, C62	EA	8

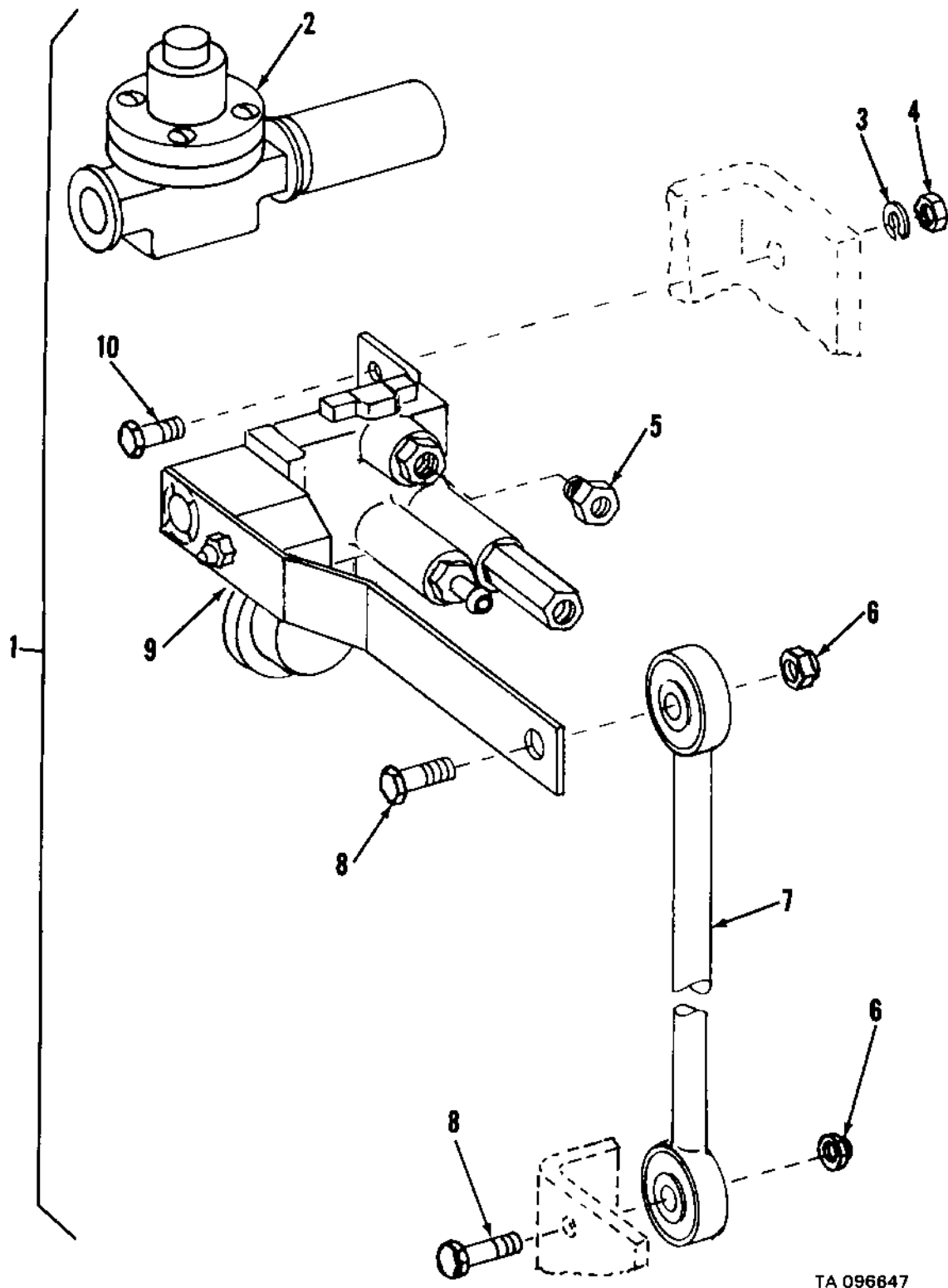


Figure 52. Air spring air control assembly, XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913.

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
52	1	XDOZZ		19207	11681240	AIR CONTROL	EA	1
52	2	PAOZZ	2530-00-075-5856	19207	11684346	•VALVE AND FILTER C14, C15, C16, C17, C18, C19, C61, C62	EA	1
52	3	PAOZZ	5310-00-582-5965	96906	MS35338-44	•WASHER, LOCK C14, C15, C16, C17, C18, C19, C61, C62	EA	4
52	4	PAOZZ	5310-00-768-0319	96906	MS51968-2	•NUT, PLAIN, HEXAGON C14, C15, C16, C17, C18, C19, C61, C62	EA	4
52	5	XDOZZ	4730-01-162-0623	19207	11684367	•INVERTED NUT, TUBE C14, C15, C16, C17, C18, C19, ..... C61, C62	EA	4
52	6	PAOZZ	5310-00-903-8282	96906	MS21083N4	•NUT, SELF-LOCKING C14, C15, C16, C17, C18, C19, ..... C61, C62	EA	4
52	7	PAOZZ	2540-01-093-0560	19207	11684329	•LINK ..... C14, C15, C16, C17, C18, C19, C61, C62	EA	2
52	8	XD0ZZ	5305-00-267-8977	96906	MS90726-10	•SCREW, CAP, HEXAGON C14, C15, C16, C17, C18, C19, ..... C61, C62	EA	4
52	9	PADZZ	2510-01-092-4051	19207	11684410	•VALVE, HEIGHT C14, C15, C16, C17, C18, C19, C61, C62	EA	2
52	10	PAOZZ	5305-00-068-0506	96906	MS90726-6	•SCREW, CAP, HEXAGON H C14, C15, C16, C17, C18, C19, C61, C62	EA	4

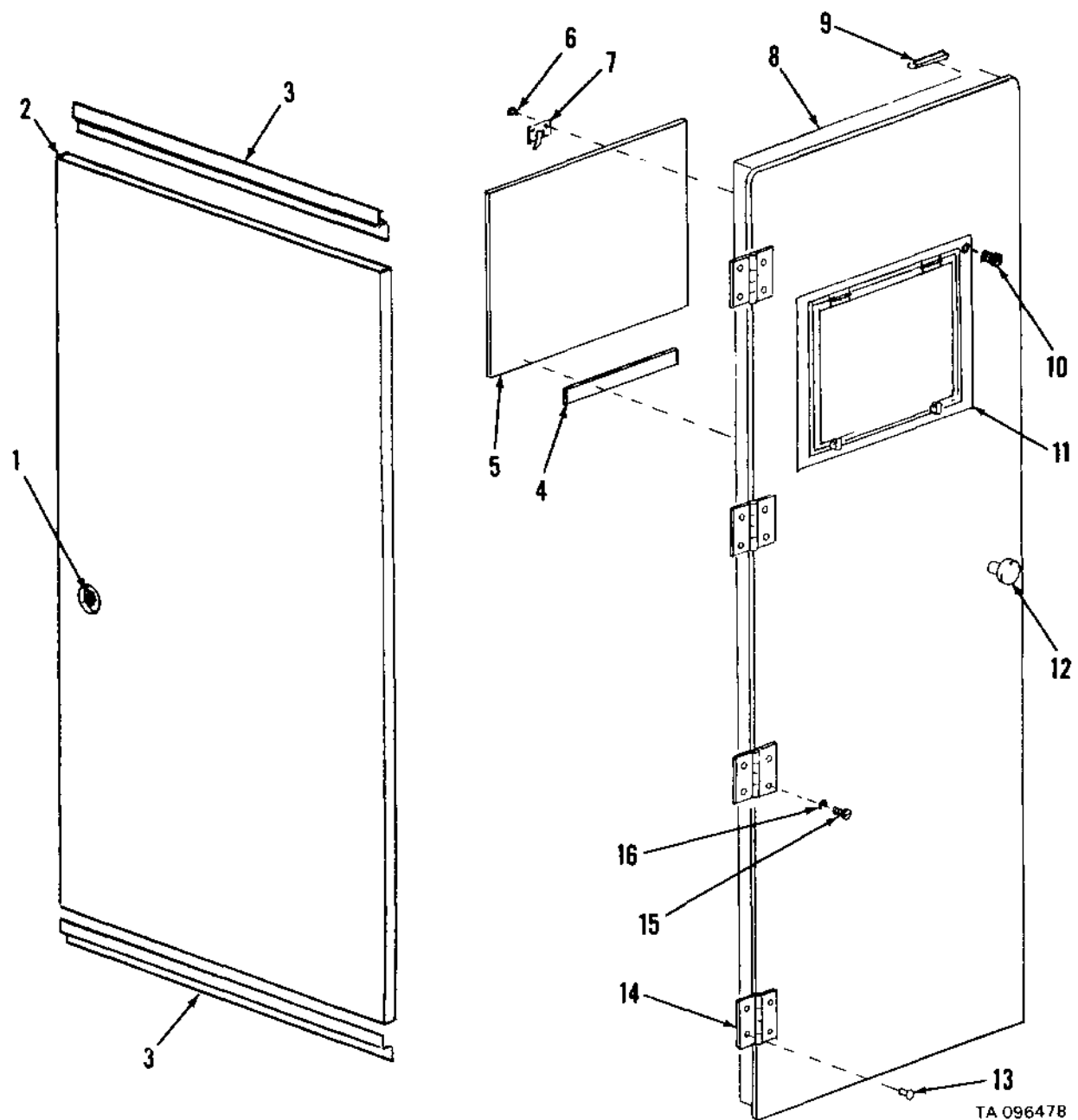


Figure 53. Interior door, XM654, XM822.



(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 18 BODY		
						GROUP 1801 BODY ASSEMBLY		
53	1	XD0ZZ		19671	1420	LOCK, SLIDING DOOR .....	A10	EA 1
53	2	XDOZZ		40670	96902	DOOR, SLIDING .....	A10	EA 1
53	3	XDOZZ		19671	400A-72	SLIDE, DOOR .....	A10	EA 2
53	4	PAOZZ	9320-00-897-5884	19207	10906776	RUBBER STRIP .....	C13	FT 5
53	5	XB0ZZ		19207	11683043	PANEL, BLACKOUT .....	C13	EA 1
53	6	PAOZZ	5320-01-113-9895	96906	MS24662-25	RIVET, BLIND .....	C13	EA 6
53	7	XDOZZ		19207	11683044	CLIP .....	C13	EA 2
53	8	XDOZZ		19207	11682959	DOOR, INTERIOR .....	C13	EA 1
53	9	PAOZZ	5330-00-939-7111	19207	11592461	SEAL, RUBBER SPECIAL .....	C13	RL 16
53	10	PAOZZ	5305-00-432-4173	96906	MS1861-15	SCREW, TAPPING, THREA THREAD FORMING .....	C13	EA 20
53	11	XD0ZZ		70109	WM3331	WINDOW, DOOR .....	C13	EA 1
53	12	XDOZZ		08050	3301	LOCK, DOOR .....	C13	EA 1
53	13	PAOZZ	5320-00-068-2057	96906	MS24662-162	RIVET, BLIND .....	C13	EA 8
53	14	XDOZZ		40670	116983230	HINGE, BUTT .....	C13	EA 4
53	15	PAOZZ	5305-00-855-0956	96906	MS24629-47	SCREW, TAPPING, THREA THREAD FORMING .....	C13	EA 8
53	16	PAOZZ	5310-00-045-3296	96906	MS35338-43	WASHER, LOCK .....	C13	EA 8

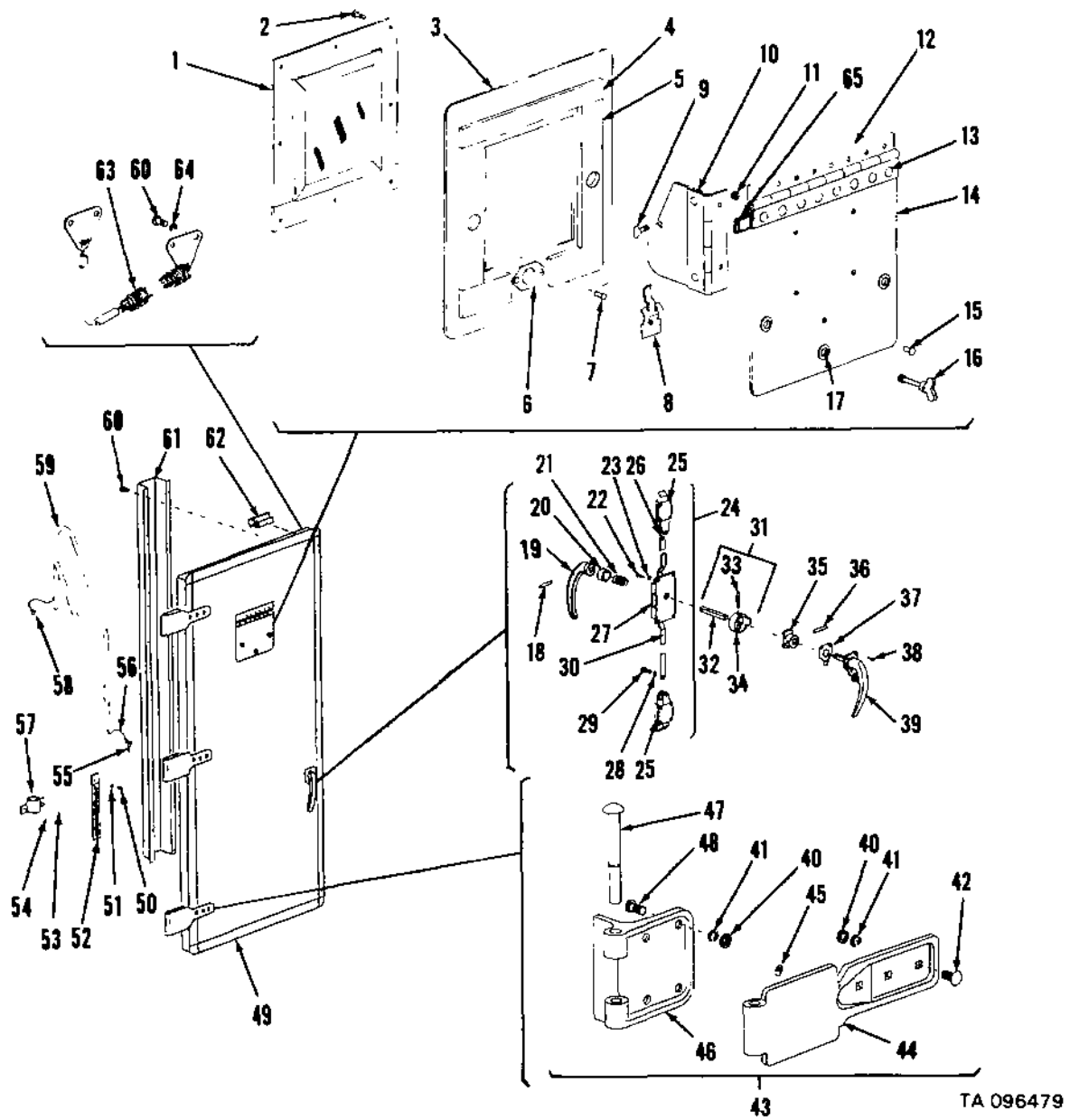


Figure 54. Side door and rear door, XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
54	1	PAOZZ	2510-01-028-4882	19207	11681403	SCREEN, VENT ..... C14, C15, C17, C19, C61, C62	EA	2
54	1	PAOZZ	2510-01-028-4882	19207	11681403	SCREEN, VENT, VEHICUL ..... C16	EA	3
54	2	PAOZZ	5305-00-159-5393	96906	MS24629-70	SCREW, TAPPING ..... C14, C15, C17, C19, C61, C62	EA	16
54	2	PAOZZ	5305-00-159-5393	96906	MS24629-70	SCREW, TAPPING, THREAC14, C15, C17, C19, C61, C62	EA	16
24								
54	3	XDOZZ		19207	11681434	FRAME ASSEMBLY ... C14, C15, C17, C19, C61, C62	EA	2
54	3	XDOZZ		19207	11681434	FRAME ASSEMBLY ... C14, C15, C17, C19, C61, C62	EA	3
54	4	PAOZZ	9320-00-611-6416	19207	11592552	RUBBER STRIP ..... C14, C15, C17, C19, C61, C62	FT	2
54	4	PAOZZ	9320-00-611-6416	19207	11592552	RUBBER STRIP ..... C14, C15, C17, C19, C61, C62	FT	2
54	5	PAOZZ	9320-00-897-5884	19207	10906776	RUBBER STRIP ..... C14, C15, C17, C19, C61, C62	FT	4
54	5	PAOZZ	9320-00-897-5884	19207	10906776	RUBBER STRIP ..... C14, C15, C17, C19, C61, C62	FT	5
54	6	PAOZZ	5325-01-031-8998	19207	7327426-2	RECEPTACLE, TURNLOCK C14, C15, C17, C19, C61, C62	EA	6
54	6	PAOZZ	5325-01-031-8998	19207	7327426-2	RECEPTACLE, TURNLOCK ..... C16	EA	9
54	7	PAOZZ	5320-00-543-3680	96906	MS20426A4-7	RIVET, SOLID ..... C14, C15, C17, C19, C61, C62	EA	12
54	7	PAOZZ	5320-00-543-3680	96906	MS20426A4-7	RIVET, SOLID ..... C14, C15, C17, C19, C61, C62	EA	18
54	8	PFOZZ	5340-01-038-5287	19207	11681432	CLIP, SPRING TENSIONC14, C15, C17, C19, C61, C62	EA	2
54	8	PFOZZ	5340-01-038-5287	19207	11681432	CLIP, SPRING TENSION ..... C16	EA	3
54	9	PAOZZ	5305-00-919-5070	19207	10882136	THUMBSCREW ..... C14, C15, C17, C19, C61, C62	EA	4
54	9	PAOZZ	5305-00-919-5070	19207	10882136	THUMBSCREW ..... C16	EA	6
54	10	PAOZZ	2510-01-030-2423	19207	11681400-2	RAINSIELD LH ..... C14, C15, C17, C19, C61, C62	EA	2
54	10	PAOZZ	2510-01-030-2423	19207	11681400-2	RAINSIELD, VEHICULA LH ..... C16	EA	3
54	10	PAOZZ	2510-01-037-4973	19207	11681400-1	RAINSIELD RH ..... C14, C15, C17, C19, C61, C62	EA	2
54	10	PAOZZ	2510-01-037-4973	19207	11681400-1	RAINSIELD, VEHICULA RH ..... C16	EA	3
54	11	PBOZZ	5310-01-044-8360	19207	10882479-2	NUT, PLAIN, BLIND RIVC14, C15, C17, C19, C61, C62	EA	4
54	11	PBOZZ	5310-01-044-8360	19207	10882479-2	NUT, PLAIN, BLIND RIV ..... C16	EA	6
54	12	PAOZZ	5340-01-034-3852	19207	11681399	HINGE, ACCESS DOORC14, C15, C17, C19, C61, C62	EA	2
54	12	PAOZZ	5340-01-034-3852	19207	11681399	HINGE, BUTT ..... C16	EA	3
54	13	PAOZZ	5320-00-242-1580	96906	MS20470A6-6	RIVET, SOLID ..... C14, C15, C17, C19, C61, C62	EA	16
54	13	PAOZZ	5320-00-242-1580	96906	MS20470A6-6	RIVET, SOLID ..... C14, C15, C17, C19, C61, C62	EA	24
54	14	PAOZZ	5340-01-040-7362	19207	11681407	COVER, ACCESS ..... C14, C15, C17, C19, C61, C62	EA	2
54	14	PAOZZ	5340-01-040-7362	19207	11681407	COVER, ACCESS ..... C16	EA	3
54	15	PAOZZ	5320-00-242-1579	96906	MS20470A6-7	RIVET, SOLID ..... C14, C15, C17, C19, C61, C62	EA	10
54	15	PAOZZ	5320-00-242-1579	96906	MS20470A6-7	RIVET, SOLID ..... C16	EA	15
54	16	PAOZZ	5325-00-298-7004	19207	7613186	STUD ASSEMBLY, TURNLC14, C15, C17, C19, C61, C62	EA	6
54	16	PAOZZ	5325-00-298-7004	19207	7613186	STUD, ASSEMBLY, TURNL ..... C16	EA	9
54	17	PAOZZ	5325-01-123-4679	19207	10907044-4	EYELET, TURNLOCK FASTENERC14, C15, C17, C19, C61, C62	EA	6
54	17	PAOZZ	5325-01-123-4679	19207	10907044-4	EYELET TURNLOCK FASTENER ..... C16	EA	9
54	18	PAOZZ	5315-00-866-2673	96906	MS35677-48	PIN, GROOVED, HEADLES C14, C15, C17, C19, C61, C62	EA	2
54	18	PAOZZ	5315-00-866-2673	96906	MS35677-48	PIN, GROOVED HEADLES ..... C16, C18	EA	3
54	19	PAOZZ	2540-00-809-7796	19207	10882482	HANDLE, DOOR ..... C14, C15, C17, C19, C61, C62	EA	2
54	19	PAOZZ	2540-00-809-7796	19207	10882484	HANDLE, DOOR ..... C16, C18	EA	3

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
54	20	PAOZZ	5340-01-032-6011	19207	11637943	RETAINER, HELICAL. C14, C15, C17, C19, C61, C62	EA	2
54	20	PAOZZ	5340-01-032-6011	19207	11637943	RETAINER, HELICAL CO..... C16, C18	EA	3
54	21	PAOZZ	5360-00-025-8210	19207	11589902	SPRING, HELICAL ..... C14, C15, C17, C19, C61, C62	EA	2
54	21	PAOZZ	5360-00-025-8210	19207	11589902	SPRING, HELICAL, COMP..... C16, C18	EA	3
54	22	PAOZZ	5305-00-052-7492	96906	MS24629-61	SCREW, TAPPING, THREA C14, C15, C17, C19, C61, C62	EA	24
54	22	PAOZZ	5305-00-052-7492	96906	MS24629-61	SCREW, TAPPING, THREA..... C16, C18	EA	36
54	23	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER, LOCK ..... C14, C15, C17, C19, C61, C62	EA	24
54	23	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER, LOCK ..... C16, C18	EA	36
54	24	PBOZZ	2540-01-049-8001	19207	11637991-1	LOCK ASSEMBLY, VAN ..... C15, C17, C19, C61	EA	1
54	24	PBOZZ	2540-01-049-8001	19207	11637991-1	LOCK ASSEMBLY, VAN ..... C14, C16, C19	EA	2
54	24	PBOZZ	2540-01-046-9404	19207	11637991-2	LOCK ASSEMBLY..... C15, C16, C17, C62	EA	1
54	24	PBOZZ	2540-01-046-9404	19207	11637991-2	LOCK ASSEMBLY..... C18	EA	2
54	25	PAOZZ	5340-00-839-0098	19207	7748911	•BOLT, FLUSH ..... C14, C15, C17, C19, C61, C62	EA	2
54	26	XBOZZ		19207	8722186-3	•ROD, LOCKING ..... C14, C15, C17, C19, C61, C62	EA	1
54	27	PAOZZ	2540-00-918-4184	19207	10911036-2	•LOCK ASSEMBLY, VANDOO C14, C15, C17, C19, C61, C62	EA	1
54	27	PAOZZ	2590-00-630-1567	19207	10911036-1	•LOCK, VAN DOOR..... C14, C15, C17, C19, C61, C62	EA	1
54	28	PAOZZ	5310-00-637-9541	96906	MS35338-46	•WASHER, LOCK ..... C14, C15, C17, C19, C61, C62	EA	2
54	29	XDOZZ	5305-00-269-3234	96906	MS90727-58	•SCREW, CAP, HEXAGON H C14, C15, C17, C19, C61, C62	EA	2
54	30	XBOZZ		19207	87221876-10	•ROD, LOCKING ..... C14, C15, C17, C19, C61, C62	EA	1
54	31	PBOZZ	2540-01-088-5905	19207	11637990	CLUTCH ASSEMBLY, HANC14, C15, C17, C19, C61, C62	EA	2
54	31	PBOZZ	2540-01-088-5905	19207	11637990	CLUTCH ASSEMBLY, HAN ..... C16, C18	EA	3
54	32	PBOZZ	5315-01-045-6509	19207	11637989	•PIN, STRAIGHT ..... C14, C15, C17, C19, C61, C62	EA	1
54	33	PAOZZ	5315-00-800-0712	96906	MS35677-49	•PIN, GROOVED ..... C14, C15, C17, C19, C61, C62	EA	1
54	34	PBOZZ	2510-01-041-0680	19207	115899-1	•CLUTCH DOOR HANDLEC14, C15, C17, C19, C61, C62	EA	1
54	35	PAOZZ	2510-01-031-0063	19207	11589900	CLUTCH DOOR HANDLE C14, C15, C17, C19, C61, C62	EA	2
54	35	PAOZZ	2510-01-031-0063	19207	11589900	CLUTCH DOOR HANDLE ..... C16, C18	EA	3
54	36	PAOZZ	5315-00-682-2207	96906	MS35677-46	PIN, GROOVED ..... C14, C15, C17, C19, C61, C62	EA	2
54	36	PAOZZ	5315-00-682-2207	96906	MS35677-46	PIN, GROOVED, HEADLES..... C16, C18	EA	3
54	37	PAOZZ	5330-00-414-6695	19207	11592566	GASKET ..... C14, C15, C17, C19, C61, C62	EA	2
54	37	PAOZZ	5330-00-414-6695	19207	11592566	GASKET ..... C14, C15, C17, C19, C61, C62	EA	3
54	38	PAOZZ	5320-00-067-5640	96906	MS20613-BP10	RIVET, SOLID ..... C14, C15, C17, C19, C61, C62	EA	6
54	38	PAOZZ	5320-00-067-5840	96906	MS20613-BP10	RIVET, SOLID ..... C14, C15, C17, C19, C61, C62	EA	9
54	39	PAOZZ	2540-01-035-0169	19207	11637970	HANDLE, DOOR OUTER C14, C15, C17, C19, C61, C62	EA	2
54	39	PAOZZ	2540-01-035-0169	19207	11637970	HANDLE, DOOR EXTERIOR..... C16, C18	EA	3
54	40	PAOZZ	5310-00-732-0558	96906	MS51967-8	NUT, PLAIN, HEXAGONC14, C15, C17, C19, C61, C62	EA	42
54	40	PAOZZ	5310-00-732-0558	96906	MS1967-8	NUT, PLAIN, HEXAGON ..... C16, C18	EA	63
54	41	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER, LOCK ..... C14, C15, C17, C19, C61, C62	EA	42
54	41	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER, LOCK ..... C16, C18	EA	63
54	42	PAOZZ	5306-00-816-2441	96906	MS35751-71	BOLT, SQUARE NECKC14, C15, C17, C19, C61, C62	EA	18
54	42	PAOZZ	5306-00-816-2441	96906	MS35751-71	BOLT, SQUARE NECK ..... C16, C18	EA	27

## SECTION II

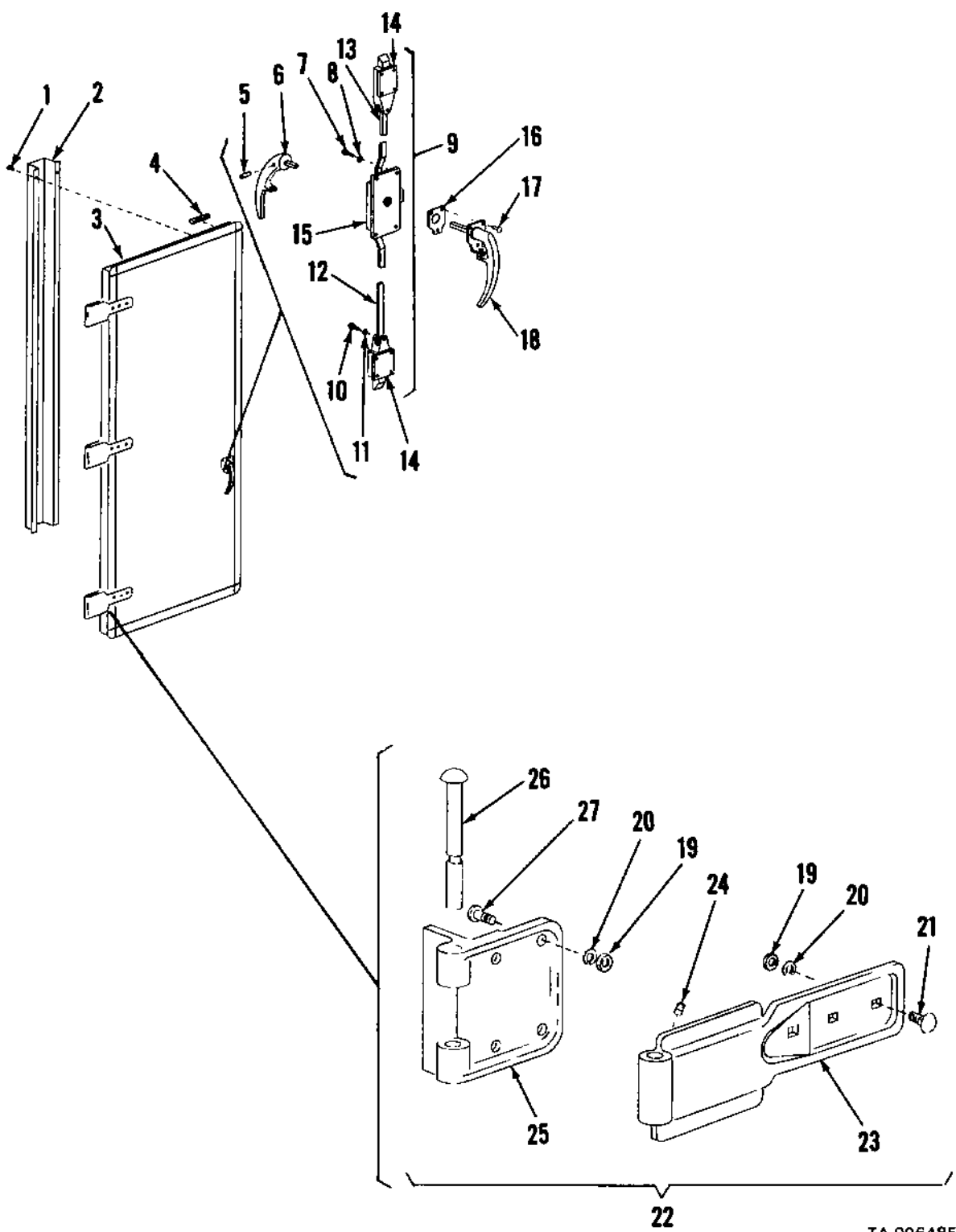
TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
54	43	PFOZZ	5340-01-033-3446	19207	11607504	HINGE, ACCESS DOOR .... C14, C15, C16, C17, C19, C62	EA	3
54	43	PFOZZ	5340-01-033-3446	19207	11607504	HINGE, ACCESS DOOR ..... C18	EA	6
54	43	PAOZZ	5340-00-164-3558	19207	11607505	HINGE, TEE ..... C14, C15, C17, C18, C19, C61	EA	3
54	43	PAOZZ	5340-00-164-3558	19207	11607505	HINGE, TEE ..... C16	EA	6
54	43	XAOZZ		19207	11607487	.STRAP, HINGE C14, C15, C16, C17, C18, C19, C61, C62	EA	1
54	45	PAOZZ	5305-00-723-9386	96906	MS51963-64	.SETSCREW .... C14, C15, C16, C17, C18, C19, C61, C62	EA	1
54	46	XAOZZ		19207	10882202	.HINGE, BUTT ..... C14, C15, C16, C17, C18, C19, C61	EA	1
54	46	XAOZZ		19207	10882201	.HINGE, BUTT ..... C14, C15, C16, C17, C18, C19, C62	EA	1
54	47	XAOZZ		19207	11607480	.PIN, STRAIGHT, HEADED C14, C15, C16, C17, C18, C19, C61, C62	EA	1
54	48	PAOZZ	5306-00-993-6257	96906	MS35751-77	BOLT, SQUARE NECK ..... C14, C15, C17, C19, C61, C62	EA	12
54	48	PAOZZ	5306-00-993-6257	96906	MS35751-77	BOLT, SQUARE NECK ..... C16, C18	EA	18
54	48	PAOZZ	5306-01-033-4358	19207	11681633	BOLT, SQUARE NECK REAR DOOR ATTACH..C14, C15, C16, C17, C19, C61, C62	EA	6
54	48	PAOZZ	5306-01-033-4358	19207	11681633	BOLT, SQUARE NECK ..... C18	EA	12
54	48	PAOZZ	5305-00-269-3213	96906	MS90725-62	SCREW, CAP, HEXAGON C14, C15, C17, C18, C19, C61, C62	EA	EA
6								
54	48	PAOZZ	5305-00-269-3213	96906	MS90725-62	SCREW, CAP, HEXAGON H..... C16	EA	12
54	49	PBOZZ	2510-01-034-1258	19207	11681430-1	DOOR, METAL, SWINGING LEFT SIDE C14, C16, C19, C61	EA	EA
1								
54	49	PFOZZ	2510-01-041-0695	19207	11681430-2	DOOR, METAL, SWINGING RIGHT SIDE C15, C16, C17, C18, C62	EA	1
54	49	PFOZZ	2510-01-035-8698	19207	11684396-1	DOOR, METAL, SWING LEFT REAR..... C61	EA	1
54	49	PBOZZ	2510-01-035-0734	19207	11684396-2	DOOR, METAL, SWINGING RIGHT REAR C16, C17, C19, C62	EA	EA
54	49	PBOZZ	2510-01-049-2969	19207	11646359	DOOR, METAL, SWINGING REAR..... C14, C15	EA	1
54	49	XDOZZ		40670	9351706-1	DOOR, METAL, SWINGING..... C18	EA	1
54	50	PAOZZ	5305-00-855-0964	96906	MS24629-48	SCREW, TAPPING, THREA..... C14, C15	EA	1
54	51	PAOZZ	5310-00-809-8546	96906	MS27183-8	WASHER, FLAT ..... C14, C15	EA	1
54	52	PAOZZ	5340-00-543-3398	19207	8690462	STRAP, WEBBING ..... C14, C15	EA	1
54	53	PAOZZ	5320-01-049-9230	96906	MS24662-156	RIVET, BLIND..... C14, C15	EA	2
54	54	PAOZZ	5320-00-828-1284	96906	MS24662-155	RIVET, BLIND..... C14, C15	EA	2
54	55	PAOZZ	5340-00-052-2242	96906	MS17985-415	PIN, QUICK RELEASE..... C14, C15	EA	2
54	56	PAOZZ	4010-01-058-4774	19207	11646393	WIRE ROPE ASSEMBLY ..... C14, C15	EA	2
54	57	XBOZZ		19207	11646389	BRACKET..... C14, C15	EA	2
54	58	PAOZZ		96906	MS17985-606	PIN, QUICK RELEASE..... C14, C15	EA	2
54	59	PBOZZ	2540-01-049-5162	19207	11646386	HANDRAIL, LADDER ..... C14, C15	EA	1
54	60	PAOZZ	5305-00-052-6917	96906	MS24629-50	SCREW, TAPPING..... C15, C15, C17, C19, C61, C62	EA	68
54	60	PAOZZ	5305-00-052-6917	96906	MS24629-50	SCREW, TAPPING, THREA..... C16	EA	102
54	60	PAOZZ	5305-00-052-6917	96906	MS24629-50	SCREW, TAPPING, THREA..... C18	EA	94
54	60	PAOZZ	5305-00-159-5393	96906	MS24629-70	SCREW, TAPPING, THREA..... C18	EA	68
54	61	XBOZZ		19207	11646385-1	GUARD DOOR LOCK, LEFT HAND.... C14, C16, C19, C61	EA	2
54	61	XBOZZ		19207	11646385-2	GUARD DOOR LOCK, RIGHT HAND..... C15, C17, C62	EA	2
54	61	XBOZZ		40670	9344713-1	GUARD..... C18	EA	1
54	61	XBOZZ		40670	9344713-2	GUARD..... C18	EA	1

## SECTION II

**TM 9-2330-271-14&P**

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
54	62	PAOZZ	5330-00-939-7111	19207	11592461	SEAL, DOOR VAN BODY DOOR (36FT)C14, C15, C17, C18 C19, C61, C62	RL	36
54	62	PAOZZ	5330-00-939-7111	19207	11592461	SEAL, RUBBER SPECIAL..... C16	RL	56
54	63	PAOZZ	5340-01-034-3072	19207	11681178	CHAIN, DOOR..... C14, C15, C17, C19, C61, C62	EA	2
54	63	PAOZZ	5340-01-034-3072	19207	11681178	CHAIN DOOR STOP .....C16, C18	EA	3
54	64	PAOZZ	5310-00-045-3296	96906	MS35338-43	WASHER, LOCK ..... C14, C15, C17, C19, C61, C62	EA	8
54	64	PAOZZ	5310-00-045-3296	96906	MS35338-43	WASHER, LOCK .....C16, C18	EA	12
54	65	PAOZZ		19207	11631743	SEAL .....C14, C15, C17, C18, C19, C61, C62	FT	2
54	65	XDOZZ		19207	11631743	SEAL ..... C16	FT	3
E-128(E-129 BLANK)								



TA 096485

Figure 55. Rear door, XM574, XM574E1, XM654, XM739, XM739E1

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
55	1	PAOZZ	5305-00-432-4205	96906	MS51861-49	SCREW, TAPPING, THREA..... A10, 140, 26F	EA	32
55	1	PAOZZ	5305-00-432-4205	96906	MS51861-49	SCREW, TAPPING, THREA..... A12, A13	EA	30
55	2	XBOZZ		19207	10891499-1	GUARD..... A12, A13, 140, 26F	EA	1
55	2	XBOZZ		19207	10891499-2	GUARD..... A10	EA	1
55	3	XDOZZ		40670	3670703	DOOR, METAL, SWINGING..... A10	EA	1
55	3	XDOZZ		40670	9772702	DOOR, METAL, SWINGING..... 140, 26F	EA	1
55	3	XDOZZ		19207	11638179-3	DOOR, METAL, SWINGING REAR, LEFT ..... A12, A13	EA	1
55	4	PAOZZ	5330-00-939-711	19207	11592461	SEAL, RUBBER SPECIAL..... A10, A12, A13, 140, 26F	RL	18
55	5	PAOZZ	5315-00-866-2673	96906	MS35677-48	PIN, GROOVED, HEADLES..... A10, A12, A13, 140, 26F	EA	1
55	6	PAOZZ	2540-00-809-7796	19207	10882484	HANDLE, DOOR..... A10, A12, A13, 140, 26F	EA	1
55	7	PAOZZ	5305-00-432-4254	96906	MS51861-69	SCREW, TAPPING, THREA..... A10, A12, A13, 140, 26F	EA	12
55	8	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER, LOCK ..... A10, A12, A13, 140, 26F	EA	12
55	9	PBOZZ	2540-01-046-9404	19207	11637991-2	LOCK ASSEMBLY ..... A12, A13	EA	1
55	9	PBOZZ	2540-0-061-2331	19207	10891482	LOCK ASSEMBLY..... A10	EA	1
55	9	2540-00-99-9451		19207	10882369	LOCK ASSEMBLY..... 140, 26F	EA	1
55	10	XDOZZ	5305-00-269-3234	96906	MS90727-58	.SCREW, CAP, HEXAGON H..... A10, A12, A13, 140, 26F	EA	2
55	11	PAOZZ	5310-00-637-9541	96906	MS35338-46	.WASHER, LOCK ..... A10, A12, A13, 140, 26F	EA	2
55	12	XBOZZ		19207	8722186-10	.ROD, LOCKING..... A10, A12, A13, 140, 26F	EA	1
55	13	XBOZZ		19207	8722186-3	.ROD, LOCKING..... A10, A12, A13, 140, 26F	EA	1
55	14	PAOZZ	5340-00-839-0098	19207	7748911	.BOLT, FLUSH..... A10, A12, A13, 140, 26F	EA	2
55	15	PAOZZ	2590-00-630-1567	19207	10911036-1	.LOCK, VAN DOOR..... A12, A13	EA	1
55	15	PAOZZ	2540-00-918-4184	19207	10911036-2	.LOCK ASSEMBLY, VANDOO ..... A10, 140, 26F	EA	1
55	16	PAOZZ	5330-00-414-6695	19207	11592566	GASKET ..... A10, A12, A13, 140, 26F	EA	1
55	17	PAOZZ	5320-00-067-5840	96906	MS20613-8P10	RIVET, SOLID ..... A10, A12, A13, 140, 26F	EA	3
55	18	PAOZZ	2540-00-287-2571	19207	7264749	HANDLE, DOOR..... A10, A12, A13, 140, 26F	EA	1
55	19	PAOZZ	5310-00-732-0558	96906	MS51967-8	NUT, PLAIN, HEXAGON ..... A10, A12, A13, 140, 26F	EA	21
55	20	PAOZZ	5310-00637-9541	96906	MS35338-46	WASHER, LOCK ..... A10, A12, A13, 140, 26F	EA	21
55	21	PAOZZ	5306-00-816-2441	96906	MS35751-71	BOLT, SQUARE NECK ..... A10, A12, A13, 140, 26F	EA	9
55	22	PFOZZ	5340-01-033-3446	19207	11607504	HINGE, ACCESS DOOR ..... A12, A13	EA	3
55	22	PAOZZ	5340-00-931-8180	40670	9772706	HINGE, DOOR..... 140, 26F	EA	3
55	22	PAOZZ	2540-00-918-4194	40670	3234702	HINGE, REARDOOR..... A10	EA	3
55	23	XAOZZ		19207	11607487	.STRAP, HINGE ..... A12, A13, 140, 26F	EA	1
55	23	XAOZZ		40670	9068001	.STRAP, HINGE ..... A10	EA	1
55	24	PAOZZ	5305-00-723-9386	96906	MS51963-64	.SETSCREW ..... A10, A12, A13, 140, 26F	EA	1
55	25	XAOZZ		19207	10882202	.HINGE, BUTT ..... A10, A12, A13	EA	1
55	25	XAOZZ		19207	10882201	.HINGE, BUTT ..... 140, 26F	EA	1
55	26	XAOZZ		19207	11607480	.PIN, STRAIGHT, HEADED ..... A12, A13, 140, 26F	EA	1
55	26	XAOZZ		40670	9068002	.PIN, STRAIGHT, HEADED ..... A10	EA	1
55	27	PAOZZ	5306-00-993-6257	96906	MS35751-77	BOLT, SQUARE NECK ..... A10, A12, A13, 140, 26F	EA	6
55	27	PAOZZ	5306-00-089-0175	96906	MS35751-84	BOLT, SQUARE NECK ..... A10, A12, A13, 140, 26F	EA	6



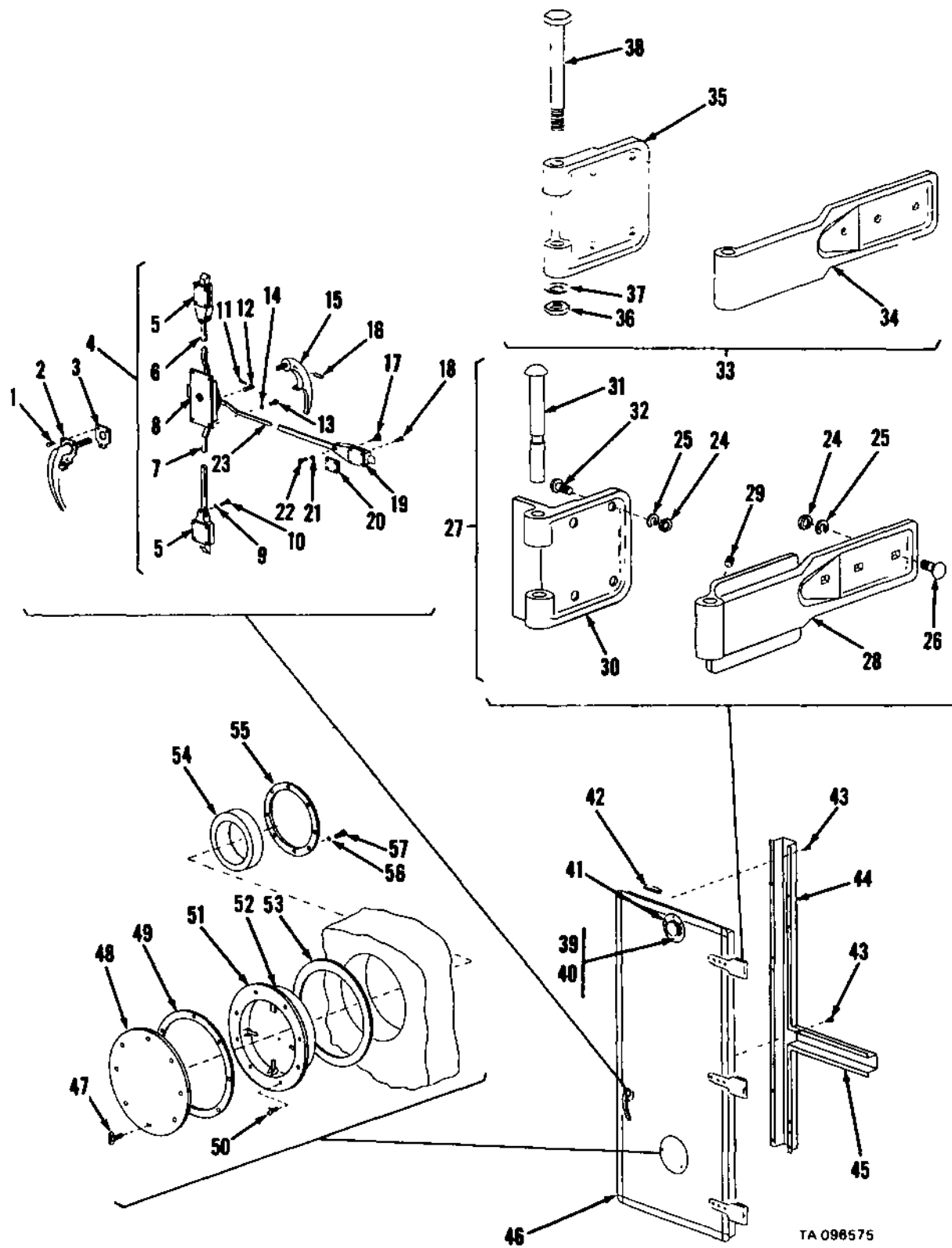


Figure 56. Right side door, XM654, XM680 XM680E1; right rear door, XM739.

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
56	1	PAOZZ	5320-00-067-5840	96906	MS20613-8P10	RIVET, SOLID ..... A09, A10, A14, 140	EA	3
56	2	PAOZZ	2540-00-287-2571	19207	7264749	HANDLE, DOOR ..... A09, A10, A14, 140	EA	1
56	3	PAOZZ	5330-00-414-6695	19207	11592566	GASKET ..... A09, A10, A14, 140	EA	1
56	4	PBOZZ	2540-00-999-9451	19207	10882369	LOCK ASSEMBLY ..... A09, A10, A14	EA	1
56	4	PBOZZ	2540-01-061-2331	19207	10891482	LOCK ASSEMBLY ..... 140	EA	1
56	5	PAOZZ	5340-00-839-0098	19207	7748911	.BOLT, FLUSH ..... A09, A10, A14, 140	EA	2
56	6	XBOZZ		19207	8722186-3	.ROD, LOCKING ..... A09, A10, A14, 140	EA	1
56	7	XBOZZ		19207	8722186-10	.ROD, LOCKING ..... A09, A10, A14, 140	EA	1
56	8	PAOZZ	2540-00-918-4184	19207	10911036-2	.LOCK ASSEMBLY, VANDOO ..... A09, A10, A14, 140	EA	1
56	9	PAOZZ	5310-00-637-9541	96906	MS35338-46	, WASHER, LOCK ..... A09, A10, A14, 140	EA	2
56	10	XDOZZ	5305-00-269-3234	96906	MS90727-58	.SCREW, CAP, HEXAGON H ..... A09, A10, A14, 140	EA	2
56	11	PAOZZ	5315-00-816-1794	96906	MS2446-285	PIN, COTTER ..... A09, A14	EA	1
56	12	PAOZZ	5315-01-096-3205	19207	10920274	PIN ..... A09, A14	EA	1
56	13	PAOZZ	5305-00-432-4254	96906	MS51861-69	SCREW, TAPPING, THREA ..... A09, A10, A14, 140	EA	12
56	14	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER, LOCK ..... A09, A10, A14, 140	EA	12
56	15	PAOZZ	2540-00-809-7796	19207	10882484	HANDLE, DOOR U/O NHA AP2MM, AP2MN, AP2MP, AP2MQEA	EA	1
56	16	XDOZZ		40670	30154719	A09, A10, A14, 140 PIN, GROOVED U/O NHA AP2MM, AP2MN, AP2MP, AP2MQEA	EA	1
56	17	PAOZZ	5305-00-052-7405	96906	MS24617-47	SCREW, TAPPING, THREA THREAD FORMING A09, A14	EA	2
56	18	PAOZZ	5305-01-050-1480	96906	MS24625-63	SCREW, TAPPING, THREA THREAD FORMING A09, A14	EA	2
56	19	PAOZZ	5304-00-839-0098	19207	7748911	BOLT, FLUSH ..... A09, A14	EA	1
56	20	XBOZZ		19207	10920252	SPACER ..... A09, A14	EA	1
56	21	PAOZZ	5310-00-595-7237	96906	MS35333-42	WASHER, LOCK ..... A09, A14	EA	1
56	22	PAOZZ	5305-00-958-0611	96906	MS35207-309	SCREW, MACHINE ..... A09, A14	EA	1
56	23	XBOZZ		19207	8722186-4	ROD, LOCKING ..... A09, A14	EA	1
56	24	PAOZZ	5310-00-732-0558	96906	MS51967-8	NUT, PLAIN, HEXAGON ..... A10, 140	EA	9
56	25	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER, LOCK ..... A09, A10, A14, 140	EA	21
56	26	PAOZZ	5305-00-269-3213	96906	MS90725-62	SCREW, CAP, HEXAGON H ..... A09, A14	EA	9
56	26	PAOZZ	5306-00-816-2441	96906	MS35751-71	BOLT, SQUARE NECK ..... A10, 140	EA	9
56	27	PAOZZ	2540-00-918-4194	40670	3234702	HINGE, REAR DOOR ..... A10	EA	3
56	27	PAOZZ	5340-00-931-8180	40670	9772706	HINGE, DOOR ..... 140	EA	3
56	28	XAOZZ		40670	9068001	.STRAP, HINGE ..... A10	EA	1
56	28	XAOZZ		19207	11607487	.STRAP, HINGE ..... 140	EA	1
56	29	PAOZZ	5305-00-723-9386	96906	MS51963-64	.SETSCREW ..... A10, 140	EA	1
56	30	XAOZZ		19207	10882202	.HINGE, BUTT ..... A10	EA	1
56	30	XAOZZ		19207	10882201	.HINGE, BUTT ..... 140	EA	1
56	31	XAOZZ		40670	9068002	.PIN, STRAIGHT, HEADED ..... A10	EA	1
56	31	XAOZZ		19207	11607480	.PIN, STRAIGHT, HEADED ..... 140	EA	1
56	32	PAOZZ	5305-00-269-3213	96906	MS90725-65	SCREW, CAP, HEXAGON H ..... A09, A10, A14	EA	6
56	32	PAOZZ	5306-00-993-6257	96906	MS35751-77	BOLT, SQUARE NECK ..... 140	EA	6

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
56	32	PAOZZ	5305-00-269-3216	96906	MS90725-66	SCREW, CAP, HEXAGON H.....140	EA	12
56	33	PAOZZ	2540-00-910-8213	19207	10882244	HINGE, DOOR.....A09, A14	EA	3
56	34	XAOZZ		19207	10891504	.STRAP, HINGE .....A09, A14	EA	1
56	35	XAOZZ		19207	10882202	.HINGE, BUTT .....A09, A14	EA	1
56	36	PAOZZ	5310-00-067-9507	96906	MS51922-37	.NUT, SELF-LOCKING, HE .....A09, A14	EA	1
56	37	PAOZZ	5310-00-809-5998	96906	MS27183-18	.WASHER, FLAT .....A09, A14	EA	1
56	38	PAOZZ	5305-00-719-5275	96906	MS90727-128	.SCREW, CAP, HEXAGON H.....A09, A14	EA	1
56	39	PAOZZ	5330-01-131-8176	19207	8747293	GASKET .....A09, A10, A14, 140	EA	2
56	40	XBOZZ		19207	8747292	DOOR, ACCESS .....A09, A10, A14, 140	EA	2
56	41	PAOZZ	5305-00-432-4254	96906	MS51861-69	SCREW, TAPPING, THREA THREAD FORMING A09, A10 A14, 140	EA	12
56	42	PAOZZ	5330-00-939-7111	19207	11592461	SEAL, RUBBER SPECIAL.....A09, A10, A14, 140	RL	18
56	43	PAOZZ	5305-00-432-4205	96906	MS51861-49	SCREW, TAPPING, THREA THREAD FORMING A10, 140	EA	32
56	43	PAOZZ	5305-00-432-4205	96906	MS51861-49	SCREW, TAPPING, THREA.....A09, A14	EA	44
56	44	XBOZZ		19207	10891449-1	GUARD.....A10, A14, 140	EA	1
56	44	XBOZZ		40670	3349701-2	GUARD.....A09	EA	1
56	45	XBOZZ		19207	10920231	GUARD.....A09, A14	EA	1
56	46	XDOZZ		40670	3486750	DOOR, METAL, SWINGING.....A09	EA	1
56	46	XDOZZ		40670	3670700	DOOR, METAL, SWINGING.....A10	EA	1
56	46	XDOZZ		40670	9444704	DOOR, METAL, SWINGING.....A14	EA	1
56	46	XDOZZ		40670	9772701	DOOR, METAL, SWINGING.....140	EA	1
56	47	XDOZZ	5305-01-124-4209	19207	8747108	THUMBSCREW.....A09, A10MA14, 140	EA	8
56	48	PBOZZ	2540-01-045-5630	19207	10891492	COVER, ACCESS .....A09, A10, A14, 140	EA	1
56	49	PAOZZ	5330-01-054-4008	19207	10891493	GASKET .....A09, A10, A14, 140	EA	1
56	50	PAOZZ	5305-00-052-6906	96906	MS24627-35	SCREW, TAPPING, THREA THREAD FORMINGA09, A10, A14, 140	EA	8
56	51	XBOZZ		19207	10891502	RETAINER .....A09, A10, A14, 140	EA	1
56	52	XBOZZ		19207	10891496	RING.....A09, A10, A14, 140	EA	1
56	53	XDOZZ		19207	8747104	GASKET .....A09, A10, A14, 140	EA	1
56	54	PAOZZ	5365-00-929-8373	19207	10891495	BUSHING, RUBBER.....A09, A10, A14, 140	EA	1
56	55	PAOZZ	5365-01-050-7925	19207	10891494	SPACER, PLATE.....A09, A10, A14, 140	EA	1
56	56	PAOZZ	5310-00-559-0070	96906	MS35333-38	WASHER, LOCK .....A09, A10, A14, 140	EA	8
56	57	PAOZZ	5305-00-855-0967	96906	MS24629-37	SCREW, TAPPING, THREA THREAD FORMINGA09, A10, A14, 140	EA	8

E-134(E-135 BLANK)

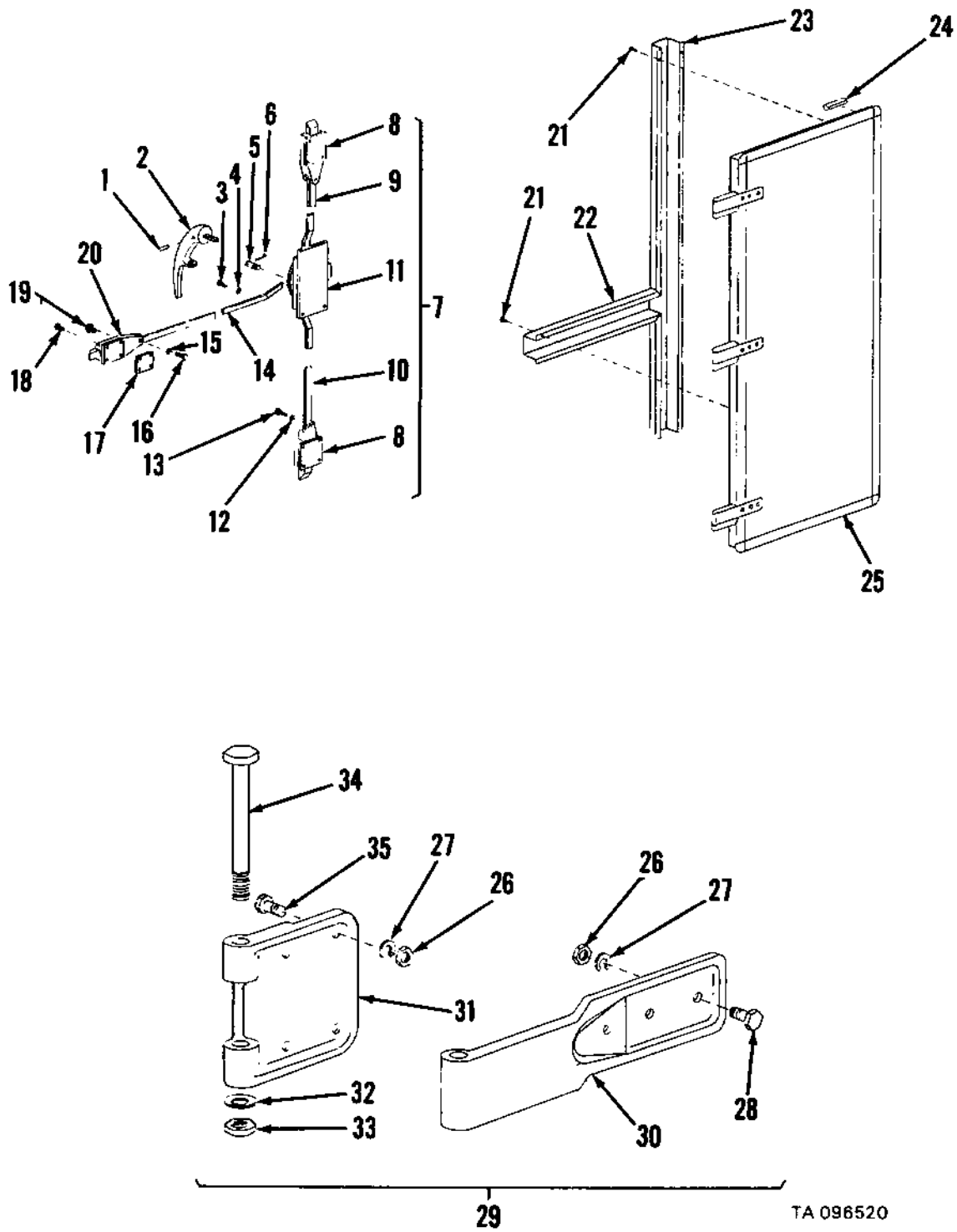


Figure 57. Left side door, XM680, XM680E1

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
57	1	PAOZZ	5310-00-866-2673	96906	MS35667-48	PIN, GROOVED, HEADLES HEADLESS ..... A09, A14	EA	1
57	2	PAOZZ	2540-00-809-17796	19207	10882484	HANDLE, ODOR INTERIOR..... A09, A14	EA	1
57	3	PAOZZ	5305-00-432-4254	96906	MS51861-69	SCREW, TAPPING, THREA THREAD FORMING A09, A14	EA	12
57	4	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER, LOCK ..... A09, A14	EA	12
57	5	PAOZZ	5315-01-096-3205	19207	10920274	PIN ..... A09, A14	EA	1
57	6	PAOZZ	5315-00-816-1794	96906	MS24665-285	PIN, COTTER ..... A09, A14	EA	1
57	7	PBOZZ	2540-01-098-1931	40670	3486746	LOCK ASSEMBLY, LEFT ..... A09, A14	EA	1
57	8	PAOZZ	5340-00-839-0098	19207	7748911	.BOLT, FLUSH..... A09, A14	EA	2
57	9	XBOZZ		19207	8722186-12	.ROD, LOCKING..... A09, A14	EA	1
57	10	XBOZZ		19207	8722186-13	.ROD, LOCKING..... A09, A14	EA	1
57	11	PAOZZ	2540-00-918-4184	19207	10911036-2	.LOCK ASSEMBLY, VANDOO DOOR..... A09, A14	EA	1
57	12	PAOZZ	5310-00-637-9541	96906	MS35338-46	.WASHER, LOCK ..... A09, A14	EA	2
57	13	XDOZZ	5305-00-269-3234	96906	MS90727-58	.SCREW, CAP, HEXAGON H..... A09, A14	EA	2
57	14	XDOZZ		19207	10920372	.ROD, LOCKING..... A09, A14	EA	1
57	15	PAOZZ	5310-00-595-7237	96906	MS35333-42	WASHER, LOCK ..... A09, A14	EA	1
57	16	PAOZZ	5305-00-958-0611	96906	MS35207-309	SCREW, MACHINE ..... A09, A14	EA	1
57	17	XBOZZ		19207	10920252	SPACER..... A09, A14	EA	1
57	18	PAOZZ	5305-01-050-1480	96906	MS24625-63	SCREW, TAPPING, THREA THREAD FORMING.. A9, A14	EA	2
57	19	PAOZZ	5305-00-432-4255	96906	MS51861-70	SCREW, TAPPING, THREA THREAD FORMING A09, A14	EA	2
57	20	PAOZZ	5340-00-839-0098	19207	7748911	BOLT, FLUSH..... A09, A14	EA	1
57	21	PAOZZ	5305-00-432-4205	96906	MS51861-49	SCREW, TAPPING, THREA THREAD FORMING A09, A14	EA	44
57	22	XBOZZ		19207	10920231	GUARD..... A09, A14	EA	1
57	23	XBOZZ		40670	34861701-2	GUARD..... A09, A14	EA	1
57	24	PAOZZ	5330-00-939-7111	19207	11592461	SEAL, RUBBER SPECIAL..... A09, A14	RL	18
51	25	XDOZZ		40670	3486700	DOOR, METAL, SWINGING..... A09	EA	1
51	25	XDOZZ		40670	9444703	DOOR, METAL, SWINGING..... A14	EA	1
51	26	PAOZZ	5310-00-73-0558	96906	MS51967-8	NUT, PLAIN, HEXAGON ..... A09, A14	EA	21
57	27	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER, LOCK ..... A09, A14	EA	21
57	28	PAOZZ	5305-00-269-3213	96906	MS90725-62	SCREW, CAP, HEXAGON H..... A09, A14	EA	9
57	29	PAOZZ	5340-01-117-6445	19207	10907027	HINGE, TEE ..... A09, A14	EA	3
57	30	XAOZZ		19207	10907028	.STRAP, HINGE ..... A09, A14	EA	1
57	31	XAOZZ		19207	10907029	.HINGE, BUTT ..... A09, A14	EA	1
57	32	PAOZZ	5310-00-584-5272	96906	MS35338-48	.WASHER, LOCK ..... A09, A14	EA	1
57	33	PAOZZ	5310-00-880-7745	96906	MS51968-11	.NUT, PLAIN, HEXAGON ..... A09, A14	EA	1
57	34	PAOZZ	5305-00-719-5275	96906	MS90727-128	.SCREW, CAP, HEXAGON H..... A09, A14	EA	3
57	35	PAOZZ	5305-00-269-3213	96906	MS90725-62	SCREW, CAP, HEXAGON H..... A09, A14	EA	6
51	35	PAOZZ	5306-00-993-6257	96906	MS35751-77	BOLT, SQUARE NECK ..... A09, A14	EA	6

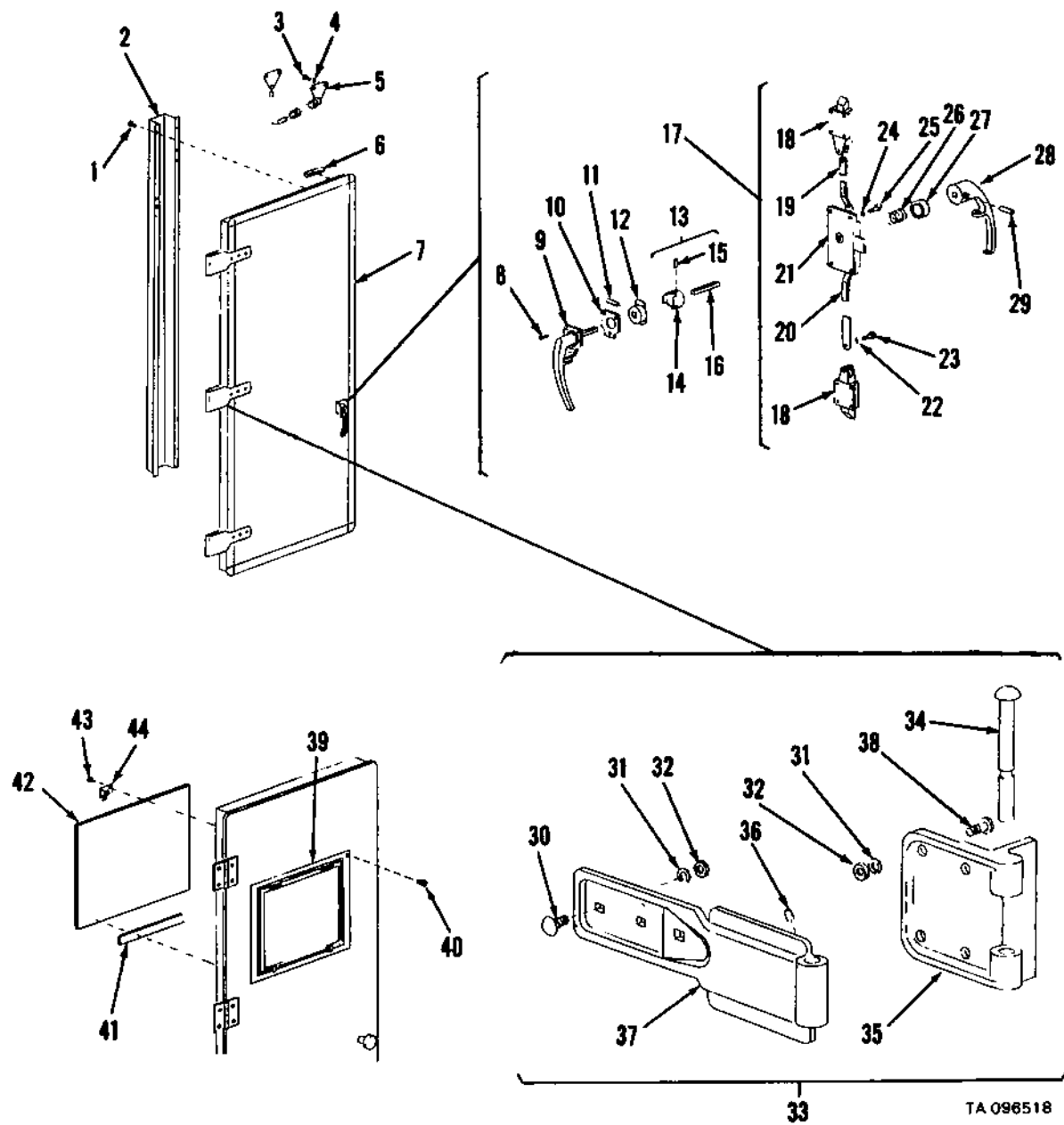


Figure 58. Rear door, XM738, XM823, XM824; side door, XM739, XM739E1, XM822

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
58	1	PAOZZ	5305-00-432-4205	96906	MS51861-49	SCREW, TAPPING, THREA THREAD FORMING.....140	EA	64
58	1	PAOZZ	5305-00-432-4205	96906	MS51861-49	SCREW, TAPPING, THREA..... A11, C13, C58, C59, 26F	EA	32
58	2	XBOZZ		19207	10891499-2	GUARD.....140	EA	2
58	2	XBOZZ		19207	10891499-2	GUARD..... A11, C58, C59, 26F	EA	1
58	2	XBOZZ		19250	11682950	GUARD..... C13	EA	1
58	3	PAOZZ	5305-00-052-6917	96906	MS24629-50	SCREW, TAPPING, THREA.....C58, C59	EA	4
58	4	PAOZZ	5310-00-045-3296	96906	MS35338-43	WASHER, LOCK.....C58, C59	EA	4
58	5	PAOZZ	5340-01-034-3072	19207	11681178	CHAIN DOOR STOP.....C58, C59	EA	1
58	6	PAOZZ	5330-00-939-7111	19207	11592461	SEAL, RUBBER SPECIAL..... C13	RL	20
58	6	XDOZZ		40670	9419909	SEAL, RUBBER..... A11, C58, C59, 26F	FT	20
58	7	XDOZZ		40674	9884703	DOOR, METAL, SWINGING..... A11, C58, C59	EA	1
58	7	XOZZ		19207	11682953	DOOR, METAL, SWINGING.....C13	EA	1
58	7	XDOZZ		40670	9772700	DOOR, METAL, SWINGING LEFT SIDE..... 26F	EA	1
58	7	XDOZZ		40670	9772700	DOOR, METAL, SWINGING.....140	EA	2
58	8	PAOZZ	5320-00-067-5840	96906	MS20613-8P10	RIVET, SOLID.....140	E	6
58	8	PAOZZ	5320-00-067-5840	96906	MS20613-8P10	RIVET, SOLID..... A11, C13, C58, C59, 26F	EA	3
58	9	PAOZZ	2540-00-287-2571	19207	7264749	HANDLE, DOOR EXTERIOR.....140	EA	2
58	9	PAOZZ	2540-00-287-2571	19207	7264749	HANDLE, DOOR EXTERIOR..... A11, C58, C59, 26F	EA	1
58	9	PAOZZ	2540-01-035-0169	19207	11637970	HANDLE, DOOR EXTERIOR.....C13	EA	1
58	10	PAOZZ	5330-00-414-6695	19207	11592566	GASKET.....140	EA	2
58	10	PAOZZ	5330-00-414-6695	19207	11592566	GASKET..... A11, C13, C58, C59, 26F	EA	1
58	11	PAOZZ	5315-00-682-2207	96906	MS35677-46	PIN, GROOVED, HEADLES.....140	EA	2
58	11	PAOZZ	5315-00-682-2207	96906	MS35677-46	PIN, GROOVED, HEADLES HEADLESA11, C13, C58, C59, 26F	EA	
1								
58	12	PBOZZ	3010-01-098-2053	40670	9067001	CLUTCH, FRICTION.....140	EA	2
58	12	PBOZZ	3010-01-098-2053	40670	9067001	CLUTCH, FRICTION..... A11, C58, C59, 26F	EA	1
58	12	PBOZZ	2510-01-031-0063	19207	1158900	CLUTCH, DOOR HANDLE.....C13	EA	1
58	13	PBOZZ	3010-01-098-2054	40670	9067002	CLUTCH, FRICTION.....140	EA	2
58	13	PBOZZ	3010-01-098-2054	40670	9067002	CLUTCH, FRICTION..... A11, C58, C59, 26F	EA	1
58	13	PBOZZ	3010-01-098-2052	19207	11682943	CLUTCH, FRICTION.....C13	EA	1
58	14	PBOZZ	2510-01-041-0680	19207	11589901	CLUTCH, DOOR HANDLE.....C13	EA	1
58	15	PAOZZ	5315-00-800-0712	96906	MS35677-49	PIN, GROOVED, HEADLES HEADLESA11, C13, C58, C59, 26F	EA	1
58	16	PBOZZ	5315-01-045-6509	19207	11637989	PIN, STRAIGHT, HEADLE.....C13	EA	1
58	17	PBOZZ	2540-01-061-2331	19207	10891482	LOCK ASSEMBLY.....140	EA	2
58	17	PBOZZ	2540-01-061-2331	19207	10891482	LOCK ASSEMBLY..... 26F	E	1
58	17	PBOZZ	2540-00-999-9451	19207	10882369	LOCK ASSEMBLY..... A11, C58, C59	EA	1
58	17	PBOZZ	2540-01-098-1933	19207	11682949	LOCK ASSEMBLY, SIDE.....C13	EA	1
58	18	PAOZZ	5340-00-839-0098	19207	7748911	BOLT, FLUSH..... A11, C13, C58, C59, 140, 26F	EA	2
58	19	XBOZZ		19207	8722186-3	ROD, LOCKING.....A11, C58, C59, 140, 26F	EA	1
58	19	XBOZZ		19207	11682948-2	ROD, LOCKING.....C13	EA	1
58	20	XBOZZ		19207	8722186-10	ROD, LOCKING.....A11, C58, C59, 140, 26F	EA	1

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
58	20	XBOZZ		19207	11682948-1	.ROD, LOCKING..... C13	EA	1
58	21	PAOZZ	2540-00-918-4184	19207	10911036-2	.LOCK ASSEMBLY, VANDOO A11, C13, C58, C59, 140, 26F	EA	1
58	22	PAOZZ	5310-00-637-9541	96906	MS35338-46	.WASHER, LOCK ..... A11, C13, C58, C59, 140, 26F	EA	2
58	23	XDOZZ	5305-00-269-3234	96906	MS90727-58	.SCREW, CAP, HEXAGON HA11, C13, C58, C59, 140, 26F	EA	2
58	24	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER, LOCK ..... 140	EA	24
58	24	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER, LOCK ..... A11, C13, C58, C59, 26F	EA	12
58	25	PAOZZ	5305-00-432-4254	96906	MS51861-69	SCREW, TAPPING, THREA THREAD FORMING..... 140	EA	24
58	25	PAOZZ	5305-00-432-4254	96906	MS51861-69	SCREW, TAPPING, THREA..... A11, C13, C58, C59, 26F	EA	12
58	26	PAOZZ	5360-00-025-8210	19207	11589902	SPRING, HELICAL, COMP..... 140	EA	2
58	26	PAOZZ	5360-00-025-8210	19207	11589902	SPRING, HELICAL, COMP..... A11, C58, C59, 26F	EA	1
58	26	PAOZZ	5360-00-025-8210	19207	11589902	SPRING, HELICAL, COMP..... C13	EA	1
58	27	XDOZZ	5340-01-112-6388	40670	9067005	RETAINER, HELICAL CO..... 140	EA	2
58	27	PAOZZ	5340-01-112-6388	40670	9067005	RETAINER, HELICAL C ..... A11, C58, C59, 26F	EA	1
58	27	PAOZZ	5340-01-032-6011	19207	11637943	RETAINER, HELICAL CO..... C13	EA	1
58	28	PAOZZ	2540-00-809-7796	19207	10882484	HANDLE, DOOR INTERIOR..... 140	EA	2
58	28	PAOZZ	2540-00-809-7796	19207	10882484	HANDLE, DOOR INTERIOR..... A11, C13, C58, C59, 26F	EA	1
58	29	PAOZZ	5315-00-866-2673	96906	MS35677-48	PIN, GROOVED, HEADLES HEADLESS ..... 140	EA	2
58	29	PAOZZ	5315-00-866-2673	96906	MS35677-48	PIN, GROOVED, HEADLES..... A11, C13, C58, C59, 22F	EA	2
58	30	PAOZZ	5306-00-816-2441	96906	MS35751-71	BOLT, SQUARE NECK ..... 140	EA	18
58	30	PAOZZ	5306-00-816-2441	96906	MS35751-71	BOLT, SQUARE NECK ..... A11, C13, C58, C59, 26F	EA	9
58	31	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER, LOCK ..... 140	EA	42
58	31	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER, LOCK ..... A11, C13, C58, C59, 26F	EA	21
58	32	PAOZZ	5310-00-732-0558	96906	MS51967-8	NUT, PLAIN, HEXAGON ..... 140	EA	42
58	32	PAOZZ	5310-00-732-0558	96906	MS51967-8	NUT, PLAIN, HEXAGON ..... A11, C13, C58, C59, 26F	EA	21
58	33	PAOZZ	2540-00-918-4194	40670	3234702	HINGE, REARODOR..... 140	EA	6
58	33	PAOZZ	2540-00-918-4194	40670	3234702	HINGE, REARDOOR..... 26F	EA	3
58	33	PAOZZ	5340-00-931-8180	40670	9772706	HINGE, DOOR..... A11, C58, C59	EA	3
58	33	PAOZZ	5340-00-164-3558	19207	11607505	HINGE, TEE ..... C13	EA	3
58	34	XAOZZ		40670	9068002	.PIN, STRAIGHT, HEADED ..... 140, 26F	EA	1
58	34	XAOZZ		19207	11607480	.PIN, STRAIGHT, HEADED ..... A11, C13, C58, C59	EA	1
58	35	XAOZZ		19207	10882202	.HINGE, BUTT ..... C13, 140, 26F	EA	1
58	35	XAOZZ		19207	10882201	.HINGE, BUTT ..... A11, C58, C59	EA	1
58	36	PAOZZ	5305-00-723-9386	96906	MS51963-64	.SETSCREW ..... A11, C13, C58, C59, 140, 26F	EA	1
58	37	XAOZZ		40670	9068001	.STRAP, HINGE ..... 140, 26F	EA	1
58	37	XAOZZ		19207	11607487	.STRAP, HINGE ..... A11, C13, C58, C59	EA	1
58	38	PAOZZ	5305-00-269-3214	96906	MS90725-64	SCREW, CAP, HEXAGON H ..... 140	EA	24
58	38	PAOZZ	5305-00-269-3214	96906	MS90725-64	SCREW, CAP, HEXAGON H ..... 26F	EA	12
58	38	PAOZZ	5305-00-269-3214	96906	MS90725-64	SCREW, CAP, HEXAGON H ..... C13	EA	6
58	38	PAOZZ	5306-00-993-6257	96906	MS35751-77	BOLT, SQUARE NECK ..... C13, C58, C59	EA	6
58	30	PAOZZ	5306-01-033-4358	19207	11681633	BOLT, SQUARE NECK ..... C58, CS9	EA	6



## SECTION II

**TM 9-2330-271-14&P**

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
58	39	XDOZZ	5670-01-031-5060	70109	WM3330-1	WINDOW, METAL ..... C13	EA	1
58	40	PAOZZ	5305-00-432-4173	96906	MS51861-15	SCREW, TAPPING, THREA THREAD FORMING..... C13	EA	20
58	41	PAOZZ	9320-00-897-5884	19207	10906776	RUBBER STRIP ..... C13	FT	10
58	42	XBOZZ		19207	11683043	PANEL, BLACKOUT..... C13	EA	1
58	43	PAOZZ	5320-01-113-9895	96906	MS24662-25	RIVET, BLIND..... C13	EA	6
58	44	PAOZZ	5340-01-130-0150	40670	11683044	CLIP, RETAINING ..... C13	EA	2

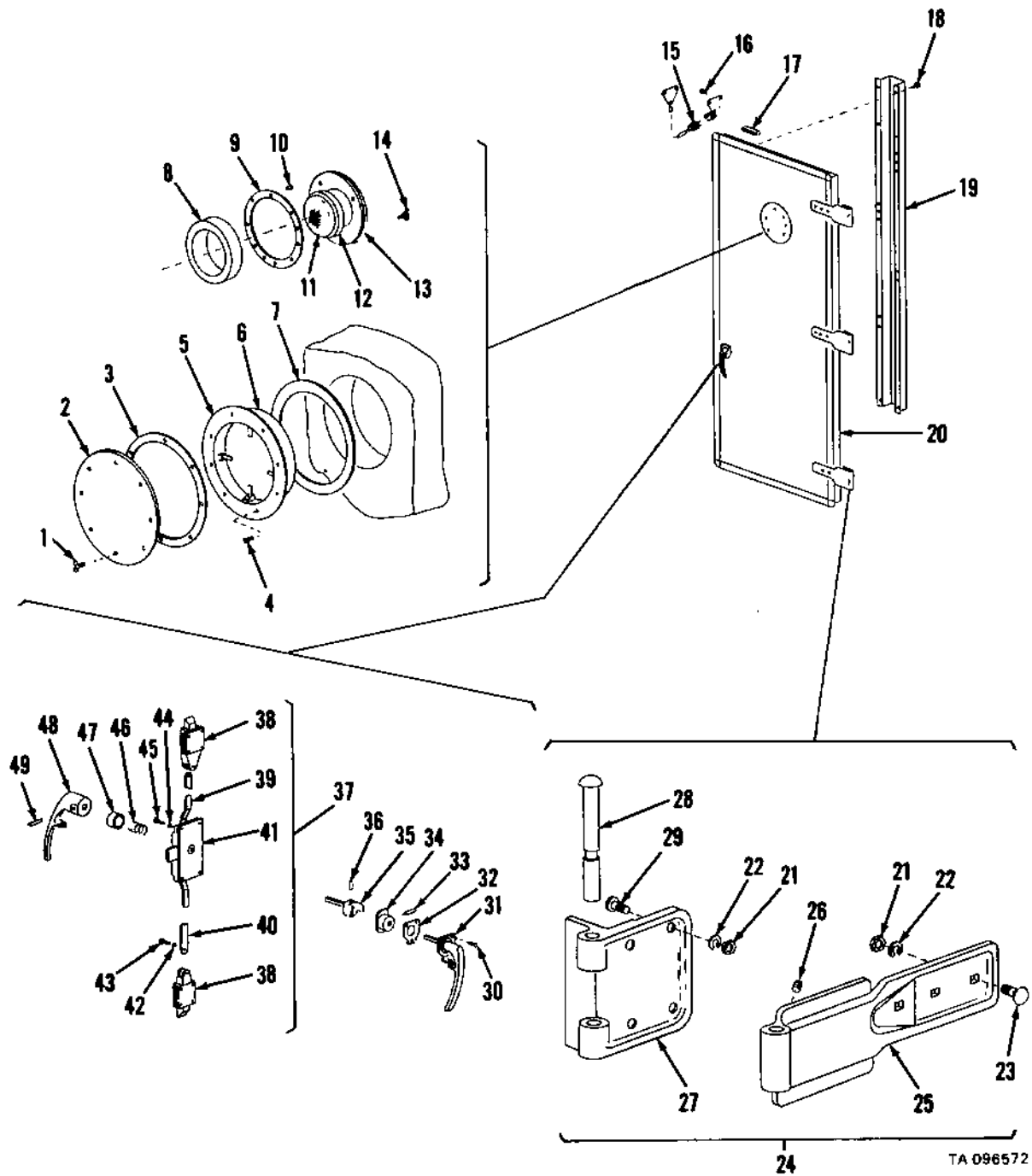


Figure 59. Side door and right rear door, XM738, XM739E1, XM823, XM824.

## SECTION II

TM 9-2330-271-14&amp;P

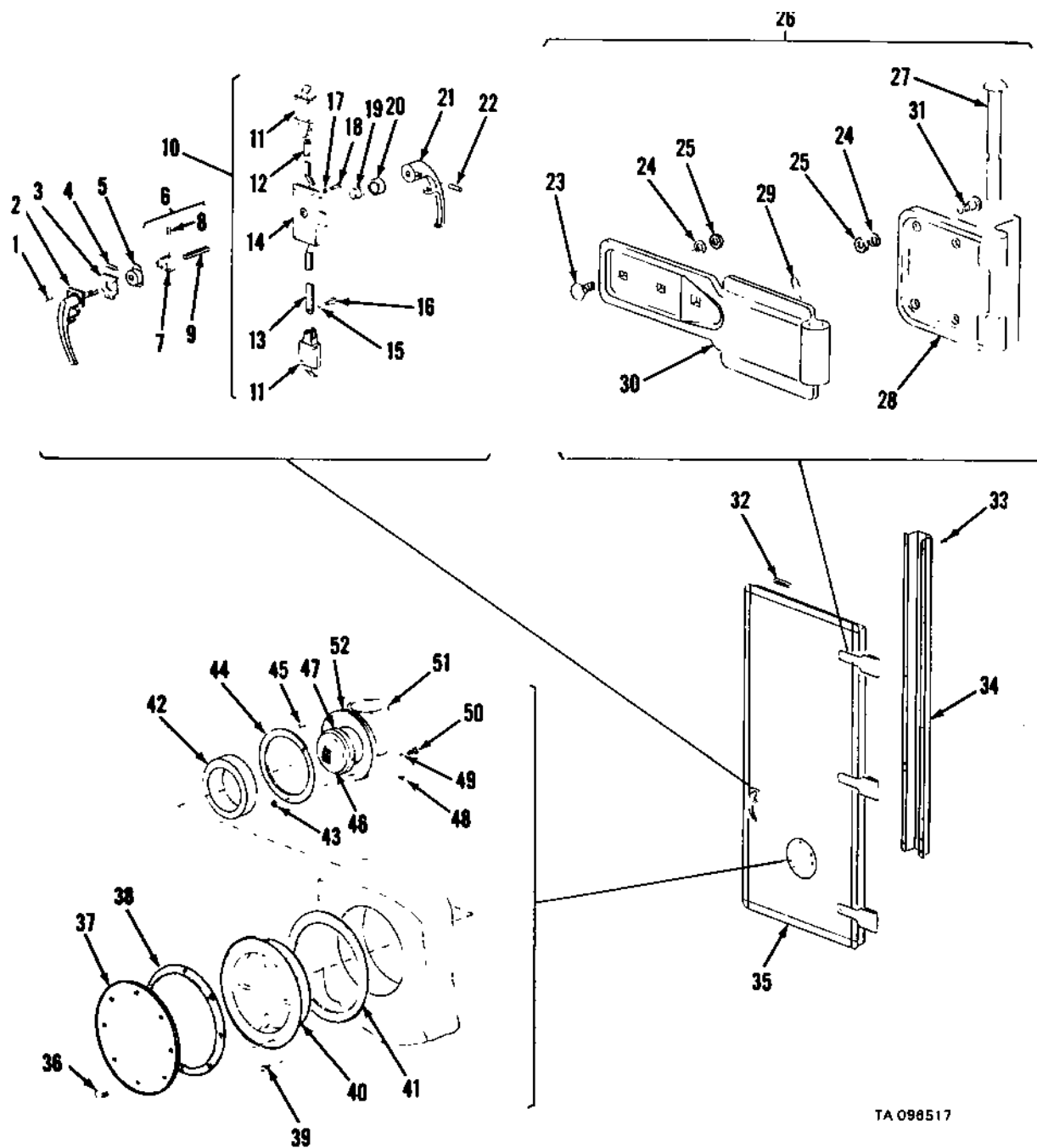
(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
59	1	XDOZZ	5300-01-127-4209	19207	8747108	THUMBSCREW.....A11, C58, C59, C26F	EA	16
59	2	PBOZZ	2540-01-045-5630	19207	10891492	COVER, ACCESS .....A11, C58, C59, C26F	EA	2
59	3	PAOZZ	5330-01-054-4008	19207	10891493	GASKET .....A11, C58, C59, C26F	EA	2
59	4	PAOZZ	5305-00-052-6906	96906	MS24627-35	SCREW, TAPPING, THREA THREAD FORMING A11, C58, C59, 26F	EA	16
59	5	XBOZZ		19207	10891502	RETAINER, BUSHING .....A11, C58, C59, C26F	EA	2
59	6	XBOZZ		19207	10891496	RING.....A11, C58, C59, C26F	EA	2
59	7	PAOZZ		19207	8747104	GASKET .....A11, C58, C59, C26F	EA	2
59	8	PAOZZ	5365-00-929-8373	19207	10891495	BUSHING, RUBBER.....A11, C58, C59, C26F	EA	2
59	9	PAOZZ	5365-01-050-7925	19207	10891494	SPACER, PLATE.....A11, C58, C59, C26F	EA	1
59	9	PAOZZ	5365-01-103-3444	40670	99521005	SPACER, PLATE.....A11, C58, C59, C26F	EA	1
59	10	PAOZZ	5320-00-828-1284	96906	MS24662-155	RIVET, BLIND.....A11, C58, C59, C26F	EA	16
59	11	XBOZZ	2540-01-098-6783	40670	99521002	SCREEN, AIR VENT HOU.....C58, C59	EA	2
59	12	XBOZZ		46470	99521003	RETAINER .....C58, C59	EA	2
59	13	PAOZZ		40670	99521004	GASKET .....C58, C59	EA	2
59	14	PAOZZ	5305-00-919-5070	19207	10882136	THUMBSCREW.....C58, C59	EA	6
59	15	PAOZZ	5340-01-034-3072	19207	11681178	CHAIN DOOR STOP .....C58, C59	EA	2
59	16	PAOZZ	5305-00-052-6917	96906	MS24629-50	SCREW, TAPPING, THREA.....C58, C59	EA	8
59	17	PAOZZ	5330-00-939-7111	19207	115924461	SEAL, RUBBER SPECIAL.....A11, C58, C59, 26F	RL	42
59	18	PAOZZ	5305-00-432-4205	96906	MS51861-49	SCREW, TAPPING, THREA.....A11, C58, C59, 26F	EA	64
59	19	XBOZZ		19207	10891499-2	GUARD.....A11, C58, C59, C26F	EA	2
59	20	XDOZZ		40670	9964700	DOOR, METAL, SWINGING.....A11, C58, C59	EA	1
59	20	XDOZZ		40670	9884701	DOOR, METAL, SWINGING.....26F	EA	1
59	20	XODZZ		40670	9965700	DOOR.METAL, SWINGING.....C59, 26F	EA	1
59	21	PAOZZ	5310-00-732-0558	96906	MS51967-8	NUT, PLAIN, HEXAGON .....A11, C58, C59, C26F	EA	42
59	22	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER, LOCK .....A11, C58, C59, C26F	EA	42
59	23	PAOZZ	5306-00-816-2441	96906	MS35751-71	BOLT, SQUARE NECK .....A11, C58, C59, C26F	EA	18
59	24	PAOZZ	2540-00-918-4194	40670	3234702	HINGE, REARDOOR.....A11, C58, C59, C26F	EA	3
59	24	PAOZZ	5340-00-931-8180	40670	9772706	HINGE, DOOR.....A11, C58, C59, C26F	EA	3
59	25	XAOZZ		40670	9068001	.STRAP, HINGE .....A11, C58, C59, C26F	EA	1
59	25	XAOZZ		19207	11607487	.STRAP, HNGE .....A11, C58, C59, C26F	EA	1
59	26	PAOZZ	5305-00-723-9386	96906	MS51963-64	.SETSCREW .....A11, C58, C59, C26F	EA	1
59	27	XAOZZ		19207	10882202	.HINGE, BUTT .....A11, C58, C59, C26F	EA	1
59	27	XAOZZ		19207	10882201	.HINGE, BUTT .....A11, C58, C59, 26F	EA	1
59	28	XAOZZ		40670	9068002	.PIN, STRAIGHT, HEADED .....A11, C58, C59, 26F	EA	1
59	28	XDOZZ	5315-01-143-0639	19207	11607480	.PIN, SHOULDER, HEADED .....A11, C58, C59, C26F	EA	1
59	29	PAOZZ	5305-00-269-3214	96906	MS90725-64	SCREW, CAP, HEXAGON H.....A11, 26F	EA	12
59	29	PAOZZ	5305-00-269-3216	96906	MS90725-66	SCREW, CAP, HEXAGON H.....A11, 26F	EA	12
59	29	PAOZZ	5305-00-269-3213	96906	MS90725-62	SCREW, CAP, HEXAGON H.....C58, C59	EA	6
59	29	PAOZZ	5306-01-033-4358	19207	11681633	BOLT, SQUARE NECK .....C58, C59	EA	6
59	29	PAOZZ	5306-00-993-6257	96906	MS35751-77	BOLT, SQUARE NECK .....C58, C59	EA	12

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
59	30	PAOZZ	5320-00-067-5840	96906	MS20613-8P10	RIVET, SOLID ..... A11, C58, C59, 26F	EA	6
59	31	PAOZZ	2540-00-287-2571	19207	7264749	HANDLE, DOOR EXTERIOR..... A11, C58, C59, 26F	EA	2
59	32	PAOZZ	5330-00-414-6695	19207	11592566	GASKET ..... A11, C58, C59, 26F	EA	2
59	33	PAOZZ	5315-00-682-2207	96906	MS35677-46	PIN, GROOVED, HEADLES ..... A11, C58, C59	EA	2
59	33	PAOZZ	5315-00-682-2207	96906	MS35677-46	PIN, GROOVED, HEADLES HEALESS ..... 26F	EA	1
59	34	PAOZZ	3010-01-098-2053	40670	9067001	CLUTCH, FRICTION ..... A11, C58, C59	EA	2
59	34	PBOZZ	3010-01-098-2053	40670	9067001	CLUTCH, FRICTION ..... 26F	EA	1
59	35	PBOZZ	3010-01-098-2054	40670	9067002	CLUTCH, FRICTION ..... A11, C58, C59	EA	2
59	35	PBOZZ	3010-01-098-2054	40670	9067002	CLUTCH, FRICTION ..... 26F	EA	1
59	34	PAOZZ	5310-00-800-0712	96906	MS35667-49	PIN, GROOVED, HEADLES ..... A11, C58, C59	EA	2
59	36	PAOZZ	5315-00-800-0712	96906	MS35677-49	PIN, GROOVED, HEADLES ..... 26F	EA	1
59	37	PBOZZ	2540-01-061-2331	19207	10891482	LOCK ASSEMBLY ..... A11, C58	EA	2
59	37	PBOZZ	2540-01-061-2331	19207	10891482	LOCK ASSEMBLY ..... C59, 26F	EA	1
59	37	PBOZZ	2540-00-999-9451	19207	10882369	LOCK ASSEMBLY ..... C59, 26F	EA	1
59	38	PAOZZ	5340-00-839-0098	19207	7748911	.BOLT, FLUSH..... A11, C58, C59, 26F	EA	2
59	39	XBOZZ		19207	8722186-3	.ROD, LOCKING..... A11, C58, C59, 26F	EA	1
59	40	XBOZZ		19207	87221186-10	.ROD, LOCKING U/O NHA 10891482, 10882369. A11, C58, C59, 26F	EA	1
59	41	PAOZZ	2540-00-918-4184	19207	10911036-2	.LOCK ASSEMBLY, VANDOO ..... A11, C58, C59, 26F	EA	1
59	42	PAOZZ	5310-00-637-9541	96906	MS35338-46	.WASHER, LOCK ..... A11, C58, C59, 26F	EA	2
59	43	XDOZZ	5305-00-269-3234	96906	MS90727-58	.SCREW, CAP, HEXAGON H ..... A11, C58, C59, 26F	EA	2
59	44	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER, LOCK ..... A11, C58, C59, 26F	EA	2
59	45	PAOZZ	5305-00-432-4254	96906	MS51861-69	SCREW, TAPPING, THREA..... A11, C58, C59, 26F	EA	24
59	46	PAOZZ	5360-00-025-8210	19207	11589902	SPRING, HELICAL, COMP..... A11, C58, C59	EA	2
59	46	PAOZZ	5360-00-025-8210	19207	11589902	SPRING, HELICAL, COMP..... 26F	EA	1
59	47	PAOZZ	5340-01-112-6388	40670	9067005	RETAINER, HELICAL..... A11, C58, C59	EA	2
59	47	PAOZZ	5340-01-112-6388	40670	9067005	RETAINER, HELICAL C ..... 26F	EA	1
59	48	PAOZZ	2540-00-809-7796	19207	10882484	HANDLE, DOOR..... A11, C58, C59, 26F	EA	2
59	49	PAOZZ	5315-00-866-2673	96906	MS35677-48	PIN, GROOVED, HEADLES ..... A11, C58, C59, 26F	EA	2

E-144(E-145 BLANK)



TA 098517

Figure 60. Right side door and right rear door, XM574, XM574E1.

## SECTION II

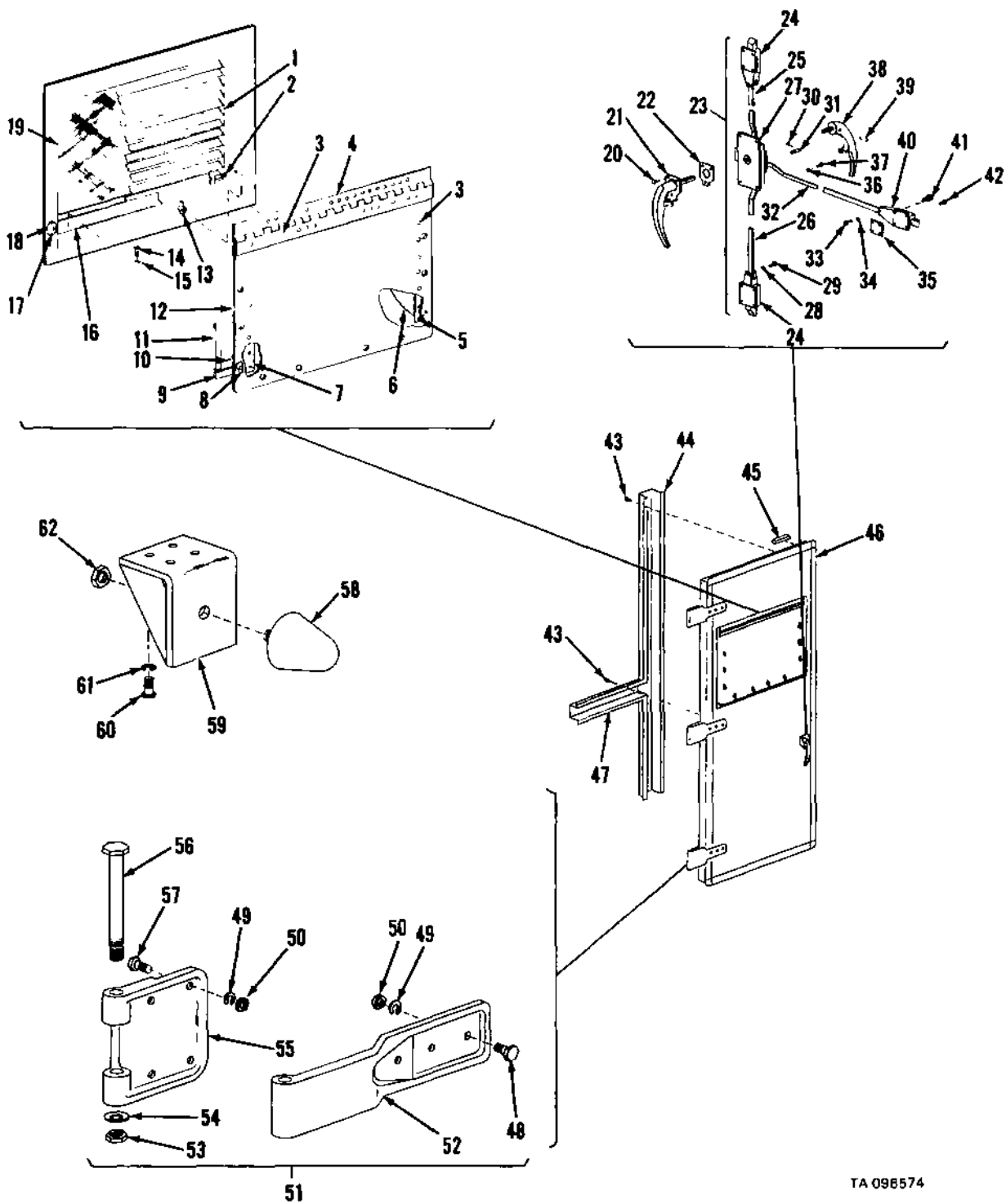
TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
60	1	PAOZZ	5320-00-067-5840	96906	MS20613-8P10	RIVET, SOLID ..... A12, A13	EA	6
60	2	PAOZZ	2540-01-035-0169	19207	11637970	HANDLE, DOOR EXTERIOR ..... A12, A13	EA	2
60	3	PAOZZ	5330-00-414-6695	19207	11592566	GASKET ..... A12, A13	EA	2
60	4	PAOZZ	5315-00-682-2207	96906	MS35677-46	PIN, GROOVED, HEADLES HEADLESS ..... A12, A13	EA	2
60	5	PBOZZ	2510-01-031-0063	19207	11589900	CLUTCH, DOOR HANDLE ..... A12, A13	EA	2
60	6	PBOZZ	2540-01-088-5905	19207	11637990	CLUTCH ASSEMBLY, HAN ..... A12, A13	EA	2
60	7	PBOZZ	2510-01-041-0680	19207	11589901	.CLUTCH, DOOR HANDLE ..... A12, A13	EA	1
60	8	PAOZZ	5315-00-800-0712	96906	MS35677-49	.PIN, GROOVED, HEADLES HEADLESS ..... A12, A13	EA	1
60	9	PAOZZ	5315-01-045-6509	19207	11637989	.PIN, STRAIGHT, HEADLE HEADLESS ..... A12, A13	EA	1
60	10	PBOZZ	2540-01-049-8001	19207	11637991-1	LOCK ASSEMBLY, VAN ..... A12, A13	EA	2
60	11	PAOZZ	5340-00-839-0098	19207	7748911	.BOLT, FLUSH ..... A12, A13	EA	2
60	12	XBOZZ		19207	8722186-3	.ROD, LOCKING ..... A12, A13	EA	1
60	13	XBOZZ		19207	8722186-10	.ROD, LOCKING ..... A12, A13	EA	1
60	14	PAOZZ	2540-00-918-4184	19207	10911036-2	.LOCK ASSEMBLY, VANDOO DOOR ..... A12, A13	EA	1
60	15	PAOZZ	5310-00-637-9541	96906	MS35338-46	.WASHER, LOCK ..... A12, A13	EA	2
60	16	XDOZZ	5305-00-269-3234	96906	MS90727-58	.SCREW, CAP, HEXAGON H ..... A12, A13	EA	2
60	17	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER, LOCK ..... A12, A13	EA	24
60	18	PAOZZ	5305-00-432-4254	96906	MS51861-69	SCREW, TAPPING, THREA THREAD FORMING ..... A12, A13	EA	24
60	19	PAOZZ	5360-00-025-8210	19207	11589902	SPRING, HELICAL, COMP COMPRESSION ..... A12, A13	EA	2
60	20	PAOZZ	5340-01-032-6011	19207	11637943	RETAINER, HELICAL CO COMPRESSION ..... A12, A13	EA	2
60	21	PAOZZ	2540-00-809-7796	19207	10882484	HANDLE, DOOR INTERIOR ..... A12, A13	EA	2
60	22	PAOZZ	5315-00-866-2673	96906	MS35677-48	PIN, GROOVED, HEADLES HEADLESS ..... A12, A13	EA	2
60	23	PAOZZ	5306-00-816-2441	96906	MS35751-71	BOLT, SQUARE NECK ..... A12, A13	EA	18
60	24	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER, LOCK ..... A12, A13	EA	42
60	25	PAOZZ	5310-00-732-0558	96906	MS51967-8	NUT, PLAIN, HEXAGON ..... A12, A13	EA	42
60	26	PAOZZ	5340-00-164-3558	19207	11607505	HINGE, TEE ..... A12, A13	EA	6
60	27	XAOZZ		19207	11607480	.PIN, STRAIGHT, HEADED ..... A12, A13	EA	1
60	28	XAOZZ		19207	10882202	.HINGE, BUTT ..... A12, A13	EA	1
60	29	PAOZZ	5305-00-723-9386	96906	MS51963-64	.SETSCREW ..... A12, A13	EA	1
60	30	XAOZZ		19207	11607487	.STRAP, HINGE ..... A12, A13	EA	1
60	31	PAOZZ	5306-00-993-6257	96906	MS35751-77	BOLT, SQUARE NECK ..... A12, A13	EA	12
60	31	PAOZZ	5306-00-089-0175	96906	MS35751-84	BOLT, SQUARE NECK ..... A12, A13	EA	6
60	31	PAOZZ	5305-00-269-3214	96906	MS90725-64	SCREW, CAP, HEXAGON H ..... A12, A13	EA	6
60	32	PAOZZ	5330-00-939-7111	19207	11592461	SEAL, RUBBER SPECIAL ..... A12, A13	RL	36
60	33	PAOZZ	5305-00-432-4205	96906	MS51861-49	SCREW, TAPPING, THREA THREAD FORMING ..... A12, A13	EA	61
60	34	XBOZZ		19207	10891499-2	GUARD ..... A12, A13	EA	2
60	35	XDOZZ		19207	11607452	DOOR, METAL, SWINGING RIGHT REAR ..... A12, A13	EA	1
60	35	PBOZZ	2510-01-074-6764	19207	11607611-1	DOOR, METAL, SWINGING RIGHT SIDE ..... A12, A13	EA	1
60	36	PAOZZ	5305-00-919-5070	19207	10882136	THUMBSCREW ..... A12, A13	EA	16
60	37	PBOZZ	2540-01-045-5630	19207	10891492	COVER, ACCESS ..... A12, A13	EA	2

## SECTION II

TM 9-2330-271-14&P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
60	38	PAOZZ	5330-01-054-4008	19207	10891493	GASKET ..... A12, A13	EA	2
60	39	PAOZZ	5305-00-068-9183	96906	MS35202-55	SCREW, MACHINE ..... A12, A13	EA	16
60	40	PBOZZ	2450-01-094-9002	19207	10891506	HOUSING ASSEMBLY, DE ..... A12, A13	EA	2
60	41	PAOZZ	5330-00-841-9289	19207	10944311	GASKET ..... A12, A13	EA	2
60	42	PAOZZ	5365-00-929-8373	19207	10891495	BUSHING, RUBBER..... A12, A13	EA	2
60	43	PAOZZ	5310-00-952-3632	19207	8741247-30	NUT, PLAIN, BLIND RIV RIVET ..... A12, A13	EA	6
60	44	PAOZZ	5365-01-049-4399	19207	1158988	SPACER, PLATE..... A12, A13	EA	2
60	45	PAOZZ	5320-00-828-1284	96906	MS24662-155	RIVET, BLIND..... A12, A13	EA	16
60	46	PAOZZ	2510-01-047-5406	19207	11589883	SCREEN, AIR VENT HOU..... A12, A13	EA	2
60	47	XBOZZ		19207	11589882	RETAINER ..... A12, A13	EA	2
60	48	PAOZZ	5320-00-903-5543	96906	MS24662-13	RIVET, BLIND..... A12, A13	EA	18
60	49	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER, LOCK ..... A12, A13	EA	6
60	50	PAOZZ	5305-00-225-3839	96906	MS90725-8	BOLT, MACHINE..... A12, A13	EA	6
60	51	PBOZZ	2540-01-094-9004	19207	11589880	HOUSING, AIR VENT, DE..... A12, A13	EA	2
60	52	PAOZZ	5330-01-054-4007	19207	11589881	GASKET ..... A12, A13	EA	2



TA 098574

Figure 61. Rear doors, XM680, XM680E1.



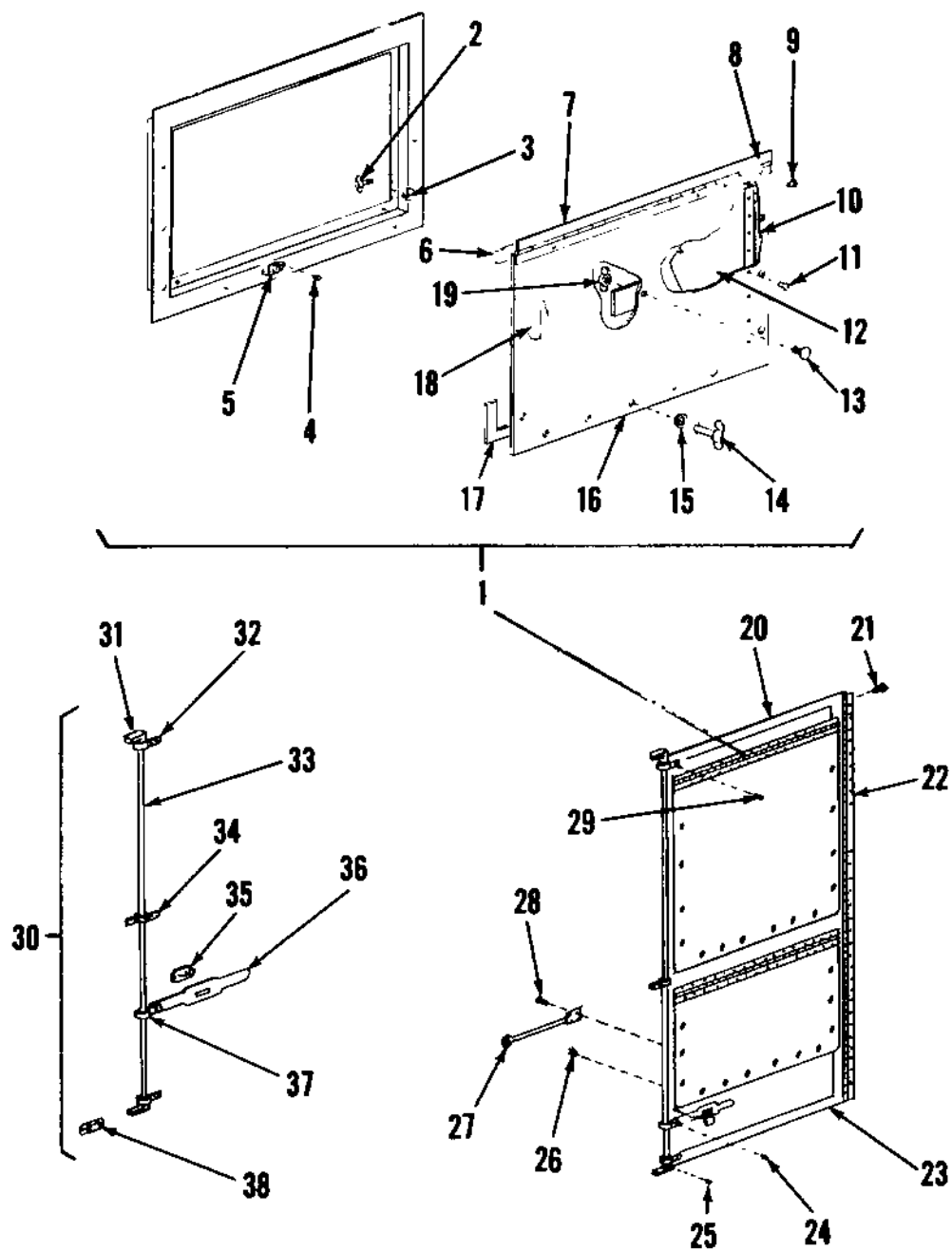
## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
61	1	XDOZZ		40670	34861020	LOUVER.....A09, A14	EA	4
61	2	PAOZZ	5305-00-919-5070	19207	10882136	THUMBSCREW.....A09, A14	EA	4
61	3	PAOZZ	5320-00-242-1578	96906	MS20470A6-8	RIVET, SOLID.....A09, A14	EA	108
61	4	XDOZZ		40670	3486972	HINGE, BUTT.....A09, A14	EA	2
61	5	PAOZZ	5340-01-103-1553	40670	3486973-1	HINGE, BUTT SHIELD, LH.....A09, A14	EA	2
61	6	XBOZZ		40670	3486971	SHIELD.....A09, A14	EA	4
61	7	PAOZZ	5340-01-103-1554	40670	3486973-2	HINGE, BUTT RH.....A09, A14	EA	2
61	8	PAOZZ	5325-00-826-3620	19207	10907044-5	EYELET, TURNLOCK FAS FASTENER.....A09, A14	EA	20
61	9	PAOZZ	5330-01-105-2880	40670	3486934	RUBBER STRIP.....A09, A14	FT	8
61	10	PAOZZ	5325-00-290-8026	71286	4002-11W	STUD ASSEMBLY, TURNL TURNLOCK.....A09, A14	EA	20
						FASTENER		
61	11	PAOZZ	5330-01-120-9316	40670	2949995	RUBBER, STRIP.....A09, A14	FT	6
61	12	XBOZZ		40670	3486970	COVER, ACCESS.....A09, A14	EA	2
61	13	PAOZZ	5310-00-080-8495	96906	MS35425-39	NUT, PLAIN, WING.....A09, A14	EA	2
61	14	PAOZZ	5305-00-432-4171	96906	MS51861-36	SCREW, TAPPING, THREA THREAD FORMING.....A09, A14	EA	2
61	15	PAOZZ	5310-00-045-3299	96906	MS35338-42	WASHER, LOCK.....A09, A14	EA	12
61	16	XBOZZ		40670	3486737	ANGLE.....A09, A14	EA	4
61	17	PAOZZ	5320-00-638-8619	88044	AN426A4-8	RIVET, SOLID.....A09, A14	EA	40
61	18	PAOZZ	5325-01-031-8998	19207	7327426-2	RECEPTACLE, TURNLOCK.....A09, A14	EA	20
61	19	PAOZZ	2540-01-098-1932	40670	3486736	SCREEN ASSEMBLY, DOO.....A09, A14	EA	2
61	20	PAOZZ	5320-00-067-5840	96906	MS20613-8P10	RIVET, SOLID.....A09, A14	EA	6
61	21	PAOZZ	2540-00-287-2571	19207	7264749	HANDLE, DOOR.....A09, A14	EA	2
61	22	PAOZZ	5330-00-414-6695	19207	11592566	GASKET.....A09, A14	EA	2
61	23	PBOZZ	2540-01-061-2331	19207	10891482	LOCK ASSEMBLY.....A09, A14	EA	1
61	23	PBOZZ	2540-00-999-9451	19207	10882369	LOCK ASSEMBLY.....A09, A14	EA	1
61	24	PAOZZ	5340-00-839-0098	19207	7748911	.BOLT, FLUSH.....A09, A14	EA	2
61	25	XBOZZ		19207	8722186-3	.ROD, LOCKING.....A09, A14	EA	1
61	26	XBOZZ		19207	8722186-10	.ROD, LOCKING.....A09, A14	EA	1
61	27	PAOZZ	2540-00-918-4184	19207	10911036-2	.LOCK ASSEMBLY, VANDOO DOOR.....A09, A14	EA	1
61	28	PAOZZ	5310-00-637-9541	96906	MS35338-46	.WASHER, LOCK.....A09, A14	EA	2
61	29	XDOZZ	5305-00-269-3234	96906	MS90727-58	.SCREW, CAP, HEXAGON H.....A09, A14	EA	2
61	30	PAOZZ	5315-00-816-1794	96906	MS24665-285	PIN, COTTER.....A09, A14	EA	2
61	31	PAOZZ	5315-01-096-3205	19207	10920274	PIN.....A09, A14	EA	2
61	32	XBOZZ		19207	8722186-4	ROD, LOCKING.....A09, A14	EA	2
61	33	PAOZZ	5305-00-958-0611	96906	MS35207-309	SCREW, MACHINE.....A09, A14	EA	2
61	34	PAOZZ	5310-00-595-7237	96906	MS35333-42	WASHER, LOCK.....A09, A14	EA	2
61	35	XBOZZ		19207	10920252	SPACER.....A09, A14	EA	2
61	36	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER, LOCK.....A09, A14	EA	24
61	37	PAOZZ	5305-00-432-4254	96906	MS51861-69	SCREW, TAPPING, THREA.....A09, A14	EA	24
61	38	PAOZZ	2540-00-809-7796	19207	10882484	HANDLE, DOOR.....A09, A14	EA	2
61	39	PAOZZ		40670	30154719	PIN, GROOVED.....A09, A14	A	2

TM 9-2330-271-14&P

**E-152(E-153 BLANK)**



TA 096492

Figure 62. Front doors, XM680, XM680E1.

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
62	1	XDOZZ		40670	3486994	OPENING ASSEMBLY ..... A09, A14	EA	4
62	2	PAOZZ	5305-00-919-5070	19207	10882136	.THUMBSCREW ..... A09, A14	EA	2
62	3	PADZZ	5310-00-952-3632	19207	8741247-30	.NUT, PLAIN, BLIND RIV RIVET ..... A09, A14	EA	2
62	4	PADZZ	5320-00-638-8619	88044	AN426A4-8	.RIVET, SOLID ..... A09, A14	EA	26
62	5	PAOZZ	5325-01-031-8998	19207	7327426-2	.RECEPTACLE, TURNLOCK ..... A09, A14	EA	13
62	6	PAOZZ	5330-01-105-2880	40670	3486934	.RUBBER STRIP ..... A09, A14	FT	4
62	7	XDOZZ		40670	3486949	.HINGE, BUTT ..... A09, A14	EA	1
62	8	PAOZZ	5320-00-242-1578	96906	MS20470A6-8	.RIVET, SOLID ..... A09, A14	EA	46
62	9	PAOZZ	5320-00-242-1579	96906	MS20470A6-7	.RIVET, SOLID ..... A09, A14	EA	24
62	10	PAOZZ	5340-01-103-1557	40670	3486950-2	.HINGE, BUTT LOWER, RIGHT ..... A09, A14	EA	1
62	10	PAOZZ	5340-01-103-1555	40670	3486964-2	.HINGE, BUTT UPPER, RIGHT ..... A09, A14	EA	1
62	11	PAOZZ	5320-00-242-1578	96906	MS20470A6-8	.RIVET, SOLID ..... A09, A14	EA	2
62	12	XBOZZ		40670	3486962	.SHIELD UPPER COVER ..... A09, A14	EA	1
62	12	XBOZZ		40670	3486947	.SHIELD LOWER COVER ..... A09, A14	EA	1
62	13	PAOZZ	5307-01-104-5993	19207	11592443-1	.STUD, SELF-LOCKING ..... A09, A14	EA	1
62	14	PAOZZ	5325-00-290-8026	19207	10907045-5	.STUD ASSEMBLY, TURNL TURNLOCK FASTENER. A09 A14	EA	13
62	15	PAOZZ	5325-00-826-3620	19207	10907044-5	.EYELET, TURNLOCK FAS FASTENER ..... A09, A14	EA	13
62	16	XBOZZ		40670	3486961	.COVER, ACCESS UPPER OPENING ..... A09, A14	EA	1
62	16	XBOZZ		40670	3486948	.COVER, ACCESS LOWER OPENING ..... A09, A14	EA	1
62	17	PAOZZ	5330-01-120-9316	40670	2949995	.RUBBER, STRIP ..... A09, A14	FT	8
62	18	PAOZZ	5340-01-103-1558	40670	3486950-1	.HINGE, BUTT LOWER, LEFT ..... A09, A14	EA	1
62	18	PAOZZ	5340-01-103-1556	40670	3486964-1	.HINGE, BUTT UPPER, LEFT ..... A09, A14	EA	1
62	19	PAOZZ	5310-00-080-8495	96906	MS35425-39	.NUT, PLAIN, WING ..... A09, A14	EA	1
62	20	XDOZZ		40670	3486723-2	DOOR, METAL, SWINGING ..... A09	EA	1
62	20	XDOZZ		40670	3486723-1	DOOR, METAL, SWINGING ..... A09	EA	1
62	20	XDOZZ		40670	9444700-1	DOOR, METAL, SWINGING ..... A14	EA	1
62	20	XDOZZ		40670	9444700-2	DOOR, METAL, SWINGING ..... A14	EA	1
62	21	PAOZZ	5305-00-052-7380	96906	MS24627-30	SCREW, TAPPING, THREA THREAD FORMING A09, A14	EA	132
62	22	XDOZZ		40670	8-3486715	HINGE, ACCESS DOOR ..... A09	EA	2
62	22	PAOZZ	5340-01-103-3400	40670	9444710	HINGE, BUTT ..... A14	EA	2
62	23	PAOZZ	5330-00-939-7111	19207	11592461	SEAL, RUBBER SPECIAL ..... A09, A14	RL	40
62	24	XDOZZ		19220	14X870	PIN, STRAIGHT ..... A09, A14	EA	4
62	25	XDOZZ		19220	7X195	SETSCREW ..... A09, A14	EA	16
62	26	PADZZ	5340-00-584-9400	92026	08	CLIP, SPRING TENSION ..... A09, A14	EA	2
62	27	XBOZZ	2540-01-091-7621	40670	3486743	DOOR, HOLD-BACK ASSE ..... A09, A14	EA	2
62	28	PAOZZ	5305-00-432-4172	96906	MS51861-37	SCREW, TAPPING, THREA ..... A09, A14	EA	10
62	29	PAOZZ	5305-00-469-3722	96906	MS51862-58	SCREW, TAPPING, THREA ..... A09, A14	EA	20
62	30	PBOZZ	2540-01-098-1934	40670	2948730	LOCK ASSEMBLY, FRONT ..... A09, A14	EA	2
62	31	PAOZZ	2590-01-100-3745	40670	2948717	.LATCH, LOCK END, FRON ..... A09, A14	EA	4
62	32	PAOZZ	9390-00-563-7562	75345	5626-1	.NONMETALLIC CHANNEL ..... A09, A14	EA	2

## SECTION II

**TM 9-2330-271-14&P**

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
62	33	XDOZZ		19220	5626-7	.BAR, LOCKING ..... A09, A14	EA	2
62	34	PAOZZ	5340-01-103-8766	40670	2948718	.LATCH, MORTISE..... A09, A14	EA	1
62	35	XDOZZ		19220	5628-6	.RETAINER ..... A09, A14	EA	2
62	36	XDOZZ	1620-00-756-9181	02121	5628-5	.FITTING, STACK, TUBE ..... A09, A14	EA	2
62	37	XDOZZ		19220	5626-10	.RETAINER ..... A09, A14	EA	2
62	38	PAOZZ	2540-01-100-3744	40670	2948720	.DOORKEEPER ASSEMBLY ..... A09, A14	EA	3
E-156(E-157 BLANK)								

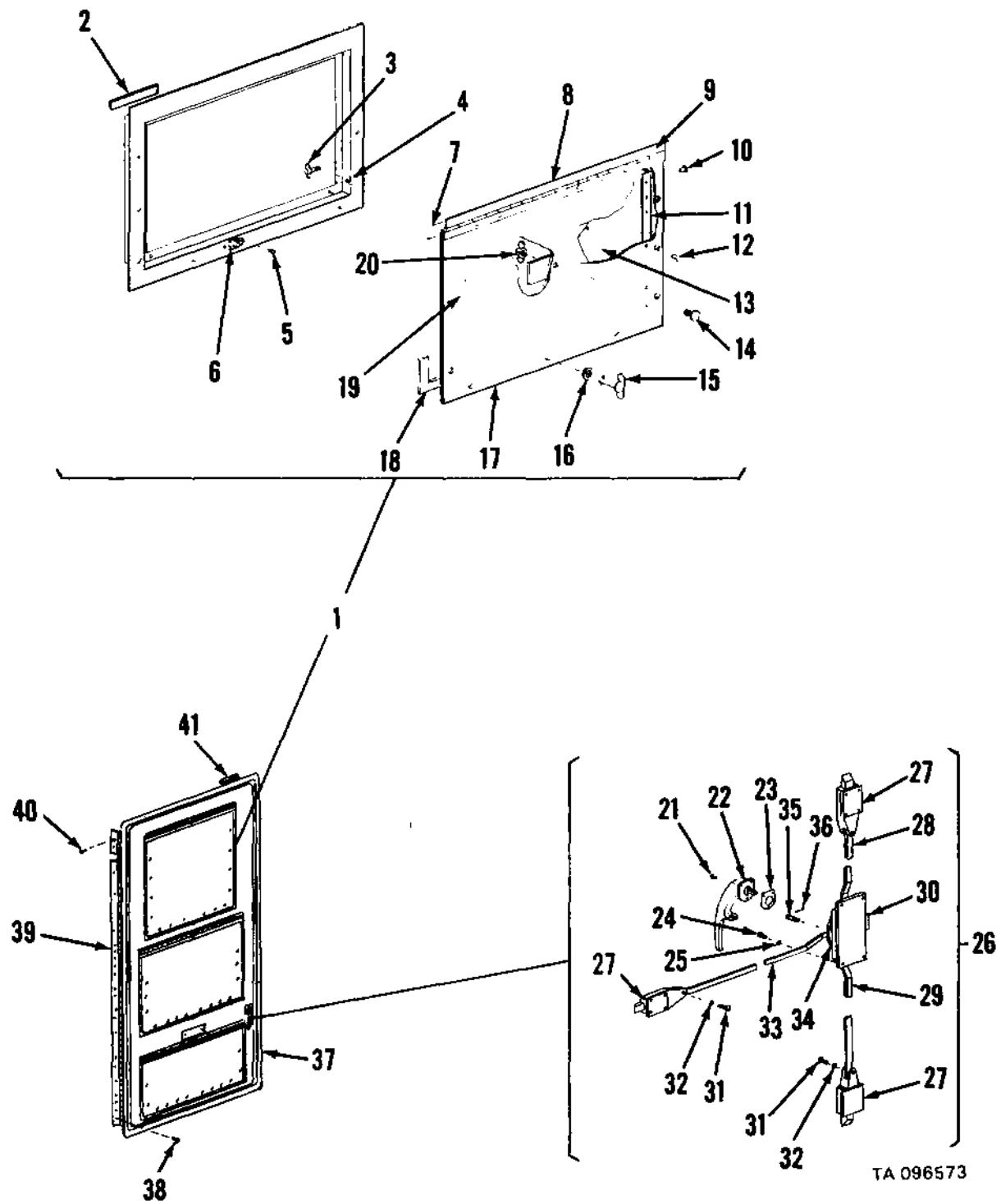


Figure 63. Front door, XM822.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
63	1	XDOZZ		19207	11682968	FRAME ASSEMBLY TOP..... C13	EA	1
63	1	XDOZZ		19207	11682967	FRAME ASSEMBLY CENTER..... C13	EA	1
63	1	XDOZZ		19207	11682966	FRAME ASSEMBLY BOTTOM..... C13	EA	1
63	2	XDOZZ	9320-00-107-0847	19207	11682988	RUBBER STRIP..... C13	FT	4
63	2	XDOZZ	9320-00-209-1900	19207	11682989	RUBBER STRIP..... C13	FT	12
63	2	XDOZZ	9320-00-107-0823	19207	11682990	RUBBER STRIP..... C13	FT	12
63	3	PAOZZ	5305-00-919-5070	19207	10882136	.THUMBSCREW..... C13	EA	2
63	4	PBOZZ	5310-01-044-8360	19207	10882479-2	.NUT, PLAIN, BLIND RIV..... C13	EA	2
63	5	PAOZZ	5320-00-638-8619	88044	AN426A4-8	.RIVET, SOLID..... C13	EA	24
63	6	PAOZZ	5325-01-031-8998	19207	7327426-2	.RECEPTACLE, TURNLOCK..... C13	EA	12
63	7	PAOZZ	9320-00-611-6416	19207	11592552	.RUBBER STRIP..... C13	FT	9
63	8	XDOZZ		40670	11682963	.HINGE, BUTT..... C13	EA	1
63	8	PAOZZ	5340-01-097-9602	19207	11592529	.HINGE..... C13	EA	1
63	8	PAOZZ	5340-01-112-8196	19207	11592525	.HINGE, BUTT U/O NHA 11682966..... C13	EA	1
63	9	PAOZZ	5320-00-849-9356	96906	MS20470A8-9	.RIVET, SOLID..... C13	EA	35
63	10	PBOZZ	5320-00-242-1579	96906	MS20470A6-7	.RIVET, SOLID..... C13	EA	24
63	11	XDOZZ		40670	11682965	.HINGE, BUTT..... C13	EA	2
63	11	PAOZZ	5340-01-114-0131	19207	11592531-2	.HINGE, BUTT..... C13	EA	1
63	11	PAOZZ	5340-01-099-8107	19207	11592527-2	.HINGE, BUTT..... C13	EA	1
63	12	PAOZZ	5320-00-242-1578	96906	MS20470A6-8	.RIVET, SOLID..... C13	EA	7
63	13	XBOZZ		19207	11682964	.SHIELD, COVER..... C13	EA	2
63	13	PBOZZ	2530-01-047-5405	19207	11592530	.COVER, INTERMEDIATE..... C13	EA	2
63	13	PBOZZ	2510-01-047-5404	19207	11592526	.COVER, LOWER FRAME..... C13	EA	2
63	14	PAOZZ	5307-01-104-5993	19207	11592443-1	.STUD, SELF-LOCKING..... C13	EA	1
63	15	PAOZZ	5325-00-298-7004	71284	4002-10W	.STUD ASSEMBLY, TURNL TURNLOCK FASTENER..... C13	EA	12
63	16	PAOZZ	5325-00-081-4157	19207	10907044-2	.EYELET, TURNLOCK FAS..... C13	EA	12
63	17	XBOZZ		19207	11682962	.COVER, ACCESS..... C13	EA	1
63	17	PBOZZ	2540-01-044-8748	19207	11592528	.COVER, ACCESS..... C13	EA	1
63	17	PBOZZ	2540-01-044-8745	19207	11592524	.COVER, ACCESS..... C13	EA	1
63	18	PAOZZ	9320-00-897-5884	19207	10906776	.RUBBER STRIP..... C13	FT	17
63	19	PAOZZ	5340-00-099-0086	19207	11592531-1	.HINGE, BUTT..... C13	EA	1
63	19	PAOZZ	5340-01-099-8106	19207	11592527-1	.HINGE, BUTT..... C13	EA	1
63	20	PAOZZ	5310-00-080-8495	96906	MS35425-39	.NUT, PLAIN, WING..... C13	EA	1
63	21	PAOZZ	5320-00-067-5840	96906	MS20613-8P10	.RIVET, SOLID..... C13	EA	3
63	22	PAOZZ	2540-00-287-2571	19207	7264749	HANDLE, DOOR EXTERIOR..... C13	EA	1
63	23	PAOZZ	5330-00-414-6695	19207	11592566	GASKET..... C13	EA	1
63	24	PAOZZ	5305-00-432-4254	96906	MS51861-69	SCREW, TAPPING, THREA THREAD FORMING..... C13	EA	16
63	25	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER, LOCK..... C13	EA	16
63	26	XDOZZ	2540-01-111-5387	40670	11682979	LOCK ASSEMBLY, FRONT..... C13	EA	1
63	27	PAOZZ	5340-00-839-0098	19207	7748911	.BOLT, FLUSH..... C13	EA	3

## SECTION II

TM 9-2330-271-14&P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
63	28	XBOZZ		19207	11682948-5	.ROD, LOCKING..... C13	EA	1
63	29	XBOZZ		19207	11682948-3	.ROD, LOCKING..... C13	EA	1
63	30	PAOZZ	2590-00-630-1567	19207	10911036-1	.LOCK, VAN DOOR ..... C13	EA	1
63	31	XDOZZ	5305-00-269-3234	96906	MS90727-58	.SCREW, CAP, HEXAGON H ..... C13	EA	3
63	32	PAOZZ	5310-00-637-9541	96906	MS35338-46	.WASHER, LOCK ..... C13	EA	3
63	33	XBOZZ		19207	11682948-4	.ROD, LOCKING..... C13	EA	1
63	34	PAOZZ	2540-01-044-8928	19207	11592551	.COLLAR, DOOR LOCK ..... C13	EA	1
63	35	PAOZZ	5315-01-096-3205	19207	10920274	.PIN ..... C13	EA	1
63	36	PAOZZ	5315-00-816-1794	96906	MS24665-285	.PIN, COTTER ..... C13	EA	1
63	37	XDOZZ		19207	11682931	DOOR, METAL, SWINGING ..... C13	EA	1
63	38	PAOZZ	5305-00-292-7947	96906	MS24627-66	SCREW, TAPPING, THREA THREAD FORMING..... C13	EA	34
63	39	PAOZZ	5340-01-049-9478	19207	11592441	HINGE, BUTT ..... C13	EA	1
63	40	PAOZZ	5305-00-052-6882	96906	MS24627-65	SCREW, TAPPING, THREA THREAD FORMING..... C13	EA	34
63	41	PAOZZ	5330-00-939-7111	19207	11592461	SEAL, RUBBER SPECIAL..... C13	RL	20



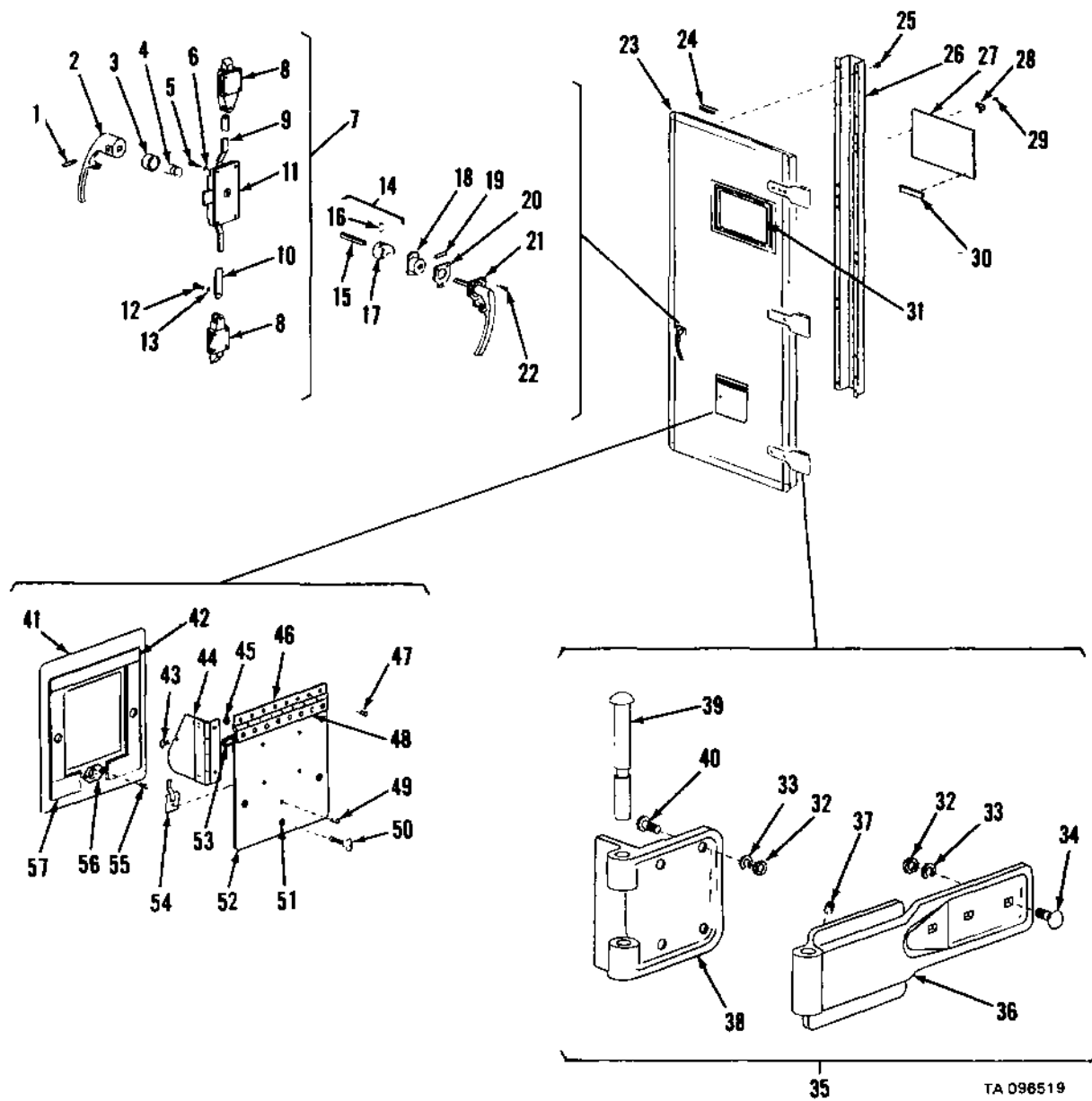


Figure 64. Rear door and right side door, XM822

## SECTION II

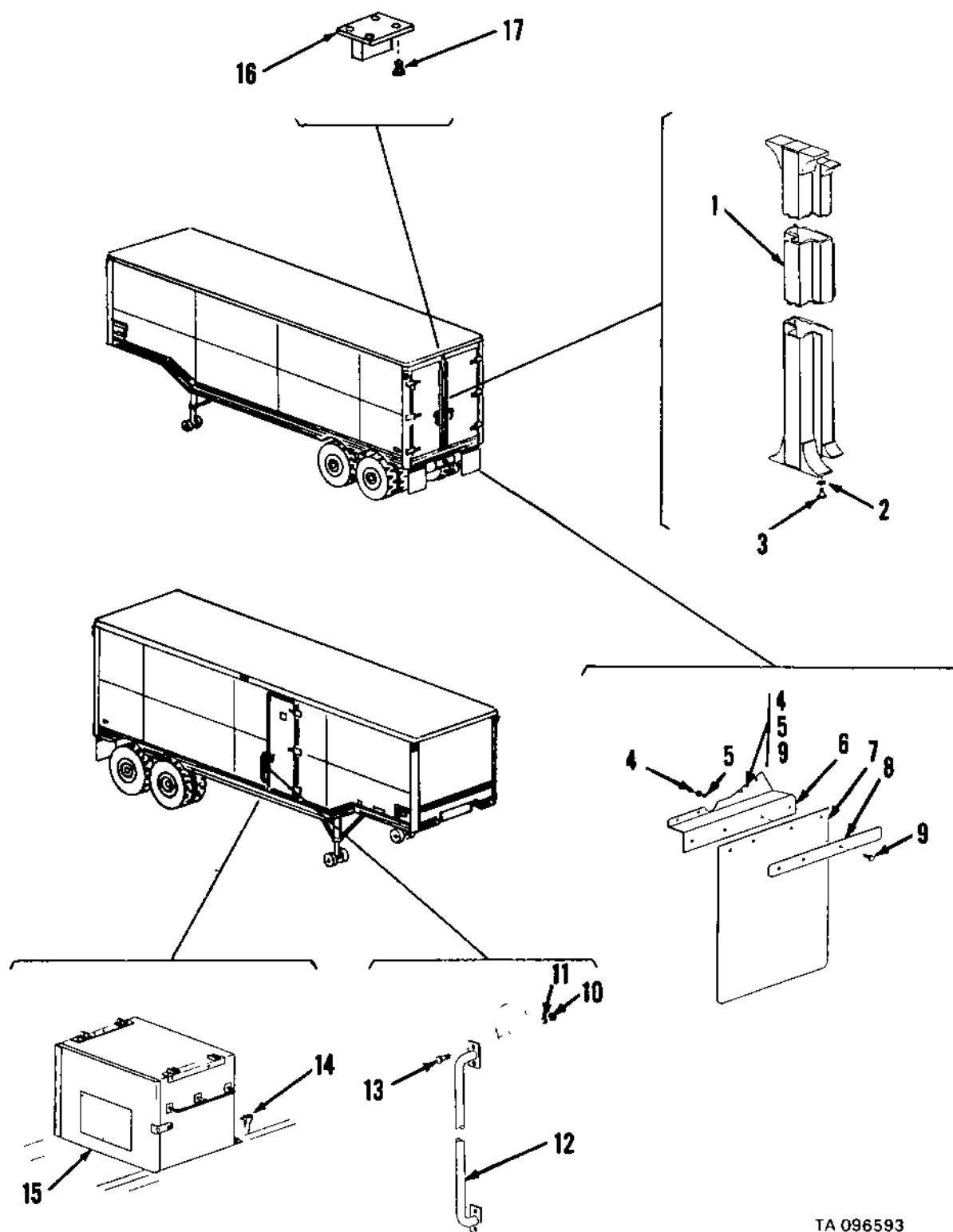
TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
64	1	PAOZZ	5315-00-866-2673	96906	MS35677-48	PIN, GROOVED, HEADLESS..... C13	EA	2
64	2	PAOZZ	2540-00-809-7796	19207	10882484	HANDLE, DOOR INTERIOR..... C13	EA	2
64	3	PAOZZ	5340-01-032-6011	19207	11637943	RETAINER, HELICAL CO..... C13	EA	2
64	4	PAOZZ	5360-00-025-8210	19207	11589902	SPRING, HELICAL, COMP COMPRESSION..... C13	EA	2
64	5	PAOZZ	5305-00-432-4254	96906	MS51861-69	SCREW, TAPPING, THREA THREAD FORMING..... C13	EA	24
64	6	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER, LOCK..... C13	EA	24
64	7	PAOZZ	2540-01-098-1936	19207	11682985	LOCK ASSEMBLY, RIGHT SIDE DOOR..... C13	EA	1
64	8	PAOZZ	2540-01-049-8001	19207	11637991-1	LOCK ASSEMBLY, VAN REAR DOOR..... C13	EA	1
64	8	PAOZZ	5340-00-839-0098	19207	7748911	BOLT, FLUSH..... C13	EA	2
64	9	XBOZZ		19207	8722186-3	ROD, LOCKING..... C13	EA	1
64	10	XBOZZ		19207	8722186-10	ROD, LOCKING..... C13	EA	1
64	11	PFOZZ	2590-00-630-1567	19207	10911036-1	LOCK, VAN DOOR..... C13	EA	1
64	11	PAOZZ	2540-00-918-4184	19207	10911036-2	LOCK ASSEMBLY, VAN HOOD..... C13	EA	1
64	12	XDOZZ	5305-00-269-3234	96906	MS90727-58	SCREW, CAP, HEXAGON H..... C13	EA	2
64	13	PAOZZ	5310-00-637-5541	96906	MS35338-46	WASHER, LOCK..... C13	EA	2
64	14	PBOZZ	3010-01-098-2052	19207	11682943	CLUTCH, FRICTION..... C13	EA	2
64	15	PBOZZ	3040-01-120-40670	40670	11682942	SHAFT, STRAIGHT HEADLESS..... C13	EA	1
64	16	PAOZZ	5315-00-800-0712	96906	MS35677-49	PIN, GROOVED, HEADLESS..... C13	EA	1
64	17	PBOZZ	2510-01-041-0680	19207	11589901	CLUTCH, DOOR HANDLE..... C13	EA	1
64	18	PBOZZ	2510-01-031-0063	19207	11589900	CLUTCH, DOOR HANDLE..... C13	EA	2
64	19	PAOZZ	5315-00-682-2207	96906	MS35677-46	PIN, GROOVED, HEADLES HEADLESS..... C13	EA	2
64	20	PAOZZ	5330-00-414-6655	19207	11592566	GASKET..... C13	EA	2
64	21	PAOZZ	2540-01-035-0169	19207	11637970	HANDLE, DOOR EXTERIOR..... C13	EA	2
64	22	PAOZZ	5320-00-067-5840	96906	MS20613-8P10	RIVET, SOLID..... C13	EA	6
64	23	XDOZZ		19207	11682936	DOOR, METAL, SWINGING..... C13	EA	1
64	23	XDOZZ		19207	11682936	DOOR, METAL, SWINGING..... C13	EA	1
64	24	PAOZZ	5330-00-939-7111	19207	11592461	SEAL, RUBBER SPECIAL..... C13	RL	40
64	25	PAOZZ	5305-00-052-6917	96906	MS24629-50	SCREW, TAPPING, THREA THREAD FORMING..... C13	EA	32
64	25	PAOZZ	5305-00-432-4201	96906	MS51861-45	SCREW, TAPPING, THREA THREAD FORMING..... C13	EA	
31								
64	26	XBOZZ		19207	10891499-2	GUARD..... C13	EA	2
64	27	XBOZZ		19207	11683043	PANEL, BLACKOUT..... C13	EA	2
64	28	XDOZZ		19207	11683044	CLIP..... C13	EA	4
64	29	PAOZZ	5320-01-113-9895	96906	MS24662-25	RIVET, BLIND..... C13	EA	12
64	30	PAOZZ	9320-00-897-5884	19207	10906776	RUBBER STRIP..... C13	FT	10
64	31	PAOZZ	5670-01-031-5060	70109	WM3331	WINDOW, METAL..... C13	EA	2
64	32	PAOZZ	5310-00-732-0558	96906	MS51967-8	...NUT, PLAIN. HEXAGON..... C13	EA	42
64	33	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER, LOCK..... C13	EA	42
64	34	PAOZZ	5306-00-816-2441	96906	MS35751-71	BOLT, SQUARE, NECK..... C13	EA	18
64	35	PAOZZ	5340-00-164-3558	19207	11607505	HINGE, TEE..... C13	EA	6
64	36	XAOZZ		19207	11607487	STRAP.HINGE..... C13	EA	1

## SECTION II

TM 9-2330-271-14&P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
64	37	PAOZZ	5305-00-723-9386	96906	MS51963-64	SETSCREW .....	C13	EA 1
64	38	XAOZZ		19207	10882202	HINGE, BUTT .....	C13	EA 1
64	39	XAOZZ		19207	11607480	PIN, STRAIGHT, HEADED .....	C13	EA 1
64	40	PAOZZ	5305-00-269-3214	96906	MS90725-64	SCREW, CAP, HEXAGON H.....	C13	EA 12
64	40	PAOZZ	5306-00-993-6257	96906	MS35751-77	BOLT, SQUARE NECK .....	C13	EA 12
64	41	XDOZZ		19207	11681434	FRAME ASSEMBLY .....	C13	EA 2
64	42	PAOZZ	9320-00-611-6416	19207	11592552	RUBBER STRIP .....	C13	FT 2
64	43	PAOZZ	5305-00-919-5070	19207	10882136	THUMBSCREW.....	C13	EA 4
64	44	PAOZZ	2510-01-037-4973	19207	11681400-1	RAINSHIELD, VEHICULA RH .....	C13	EA 2
64	44	PAOZZ	2510-01-030-2423	19207	11681400-2	RAINSHIELD, VEHICULA LH .....	C13	EA 2
64	45	PBOZZ	5310-01-044-8360	19207	10882479-2	NUT, PLAIN, BLIND RIV RIVET .....	C13	EA 4
64	46	PAOZZ	5340-01-034-3852	19207	11681399	HINGE, BUTT .....	C13	EA 2
64	47	PAOZZ	5320-00-117-6856	96906	MS20470AD6-12	RIVET, SOLID .....	C13	EA 16
64	48	PAOZZ	5320-00-242-1580	96906	MS20470A6-6	RIVET, SOLID .....	C13	EA 16
64	49	PAOZZ	5320-00-242-1579	96906	MS20470A6-7	RIVRTS, SOLID .....	C13	EA 10
64	50	PAOZZ	5325-00-290-3816	19207	10907045-1	STUD ASSEMBLY, TURNL. TURNLOCK FASTENER .....	C13	EA 6
64	51	PAOZZ	5325-00-582-3839	19207	10922418	EVELET, TURNLOCK FAS. FASTENER.....	C13	EA 6
64	52	PBOZZ	5340-01-040-7362	19207	11681407	COVER, ACCESS .....	C13	EA 2
64	53	DDOZZ		19207	11631743	SEAL .....	C13	FT 3
64	54	PAOZZ	5340-01-038-5287	19207	11681432	CLIP, SPRING TENSION .....	C13	EA 2
64	55	PAOZZ	5320-00-543-3680	96906	MS20426A4-7	RIVET, SOLID .....	C13	EA 12
64	56	PAOZZ	5325-01-031-8958	19207	7327426-2	RECEPTACLE, TURNLOCK .....	C13	EA 6
64	57	PAOZZ	9320-00-897-5884	19207	10906776	RUBBER STRIP .....	C13	FT 4
<b>E-164/(E-165 BLANK)</b>								



TA 096593

*Figure 65. Miscellaneous body parts.*

TM 9-2330-271-14&P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
65	1	PBOZZ	2540-01-044-8929	19207	11589919	POST, DOOR,,REMOVABLE REAR.....A12,AI3,C58,.C59	EA	1
65	1	PBOZZ	2510-01-092-9821	40670	3486504	POST ASSEMBLY. REAR.....A09, A14	EA	1
65	1	XO7ZZ	2510-01-091-7623	40670	3486405	POST ASSEMBLY. FRONT.....A09,A14	EA	1
65	2	PAOZZ	5310-00-407-9566	96906	MS35338-45	WASHER, LOCK.....A12,A13,C58,C59	EA	4
65	2	PAOZZ	5310-00-407-9566	96906	MS35338-45	WASHER, LOCK.....A09,A14	EA	8
65	3	PAOZZ	5305-00-954-4603	96906	MS35218-84	SCREW, MACHINE.....A12,A13,C58,C59	EA	4
65	3	PAOZZ	5305-00-954-4603	96906	MS35218-84	SCREW, MACHINE.....A09,A14	EA	8
65	4	PAOZZ	5310-00-732-0558	96906	MS51967-8	NUT, PLAIN, HEXAGON A09,A10,A11,A12,A13,A14.C58,C59,140,26F	EA	14
65	4	PAOZZ	5310-00-732-0558	96906	MS51967-8	NUT,PLAIN,HEXAGON.....C13	EA	14
65	4	PAOZZ	5310-00-732-0558	96906	MS51967-8	NUT,PLAIN,HEXAGONC14,C15,C16 ,C17.C18,C19,C61,C62	EA	16
65	4	PAOZZ	5310-00-732-0558	96906	MS51967-8	NUT,PLAIN,HEXAGON.....C13	EA	16
65	5	PAOZZ	5310-00-637-5541	96906	MS35338-46	WASHER,LOCKA09,A10,A11,A12,A13,A14,C58,C59,140,26F	EA	14
65	5	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER,LOCK.....C13	EA	14
65	5	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER,LOCK.....C14,C15,C16,C17,C18,C19,C61,C62	EA	16
65	5	PAOZZ	5310-00-637-9541	96906	MS35338-44	WASHER,LOCK.....C13	EA	16
65	6	XBOZZ		19207	10882199	BRACKETMOUNTINGRHA09,A10,A11,A12,A13,A14,C58,C59,140,26F	EA	1
65	6	XBOZZ		19207	10882199	BRACKET, MOUNTING.....C13	EA	1
65	6	XBOZZ		19207	10882207	BRACKETMOUNTINGLH A09,A10,A11,A12,A13,A14,C58,C59,140,26F	EA	1
65	6	XBOZZ		19207	10882207	BRACKET MOUNTING.....C13	EA	1
65	6	XBOZZ		19207	11646302-2	BRACKET RH.....C14,C15,C16,C17,C18,C19	EA	1
65	6	XBOZZ		19207	11646302-2	BRACKET .....C13	EA	1
65	6	XBOZZ		19207	11646302-1	BRACKET LH.....C14,C15,C16,C17,C18,C19	EA	1
65	6	XBOZZ		19207	11646302-1	BRACKET .....C13	EA	1
65	6	XBOZZ		40670	5955122-1	BRACKET RH.....C61,C62	EA	1
65	6	XBOZZ		40670	5955122-2	BRACKET LH.....C61,C62	EA	1
65	7	PAOZZ	2540-00-897-5917	19207	10882200	GUARD, SPLASH,VEHICU.....C61,C62	EA	2
65	8	PAOZZ	5365-00-717-5617	18876	10944341	SPACER,PLATE.....	EA	2
65	9	PAOZZ	5305-00-942-2196	96906	MS18154-60	SCREWCAP,HEXAGON A09,A10,A11,A12,A13,A14,C58,C59,140,26F	EA	14
65	9	PAOZZ	5305-00-942-2196	96906	MS18154-60	SCREWCAP,HEXAGON.H.....C13	EA	14
65	9	PAOZZ	5305-00-942-2196	96906	MS18154-60	SCREWCAP,HEXAGON.H...C14,C15,C16,C17,C18,C19,C61,C62	EA	16
65	9	PAOZZ	5305-00-942-2196	96906	MS18154-60	SCREWCAP,HEXAGON.H.....C13	EA	16
65	10	PAOZZ	5310-00-952-3566	03481	A25-380	NUT, PLAIN.....C62	EA	6
65	10	PAOZZ	5310-00-952-3566	03481	A25-380	NUT PLAIN,BLIND RIV RIVET.....C62	EA	10
65	10	PAOZZ	5310-00-952-3566	03481	A25-380	NUT PLAIN,BLIND RIV RIVET...A09,A10,A14,C16,C17,C19	EA	12
65	10	PAOZZ	5310-00-952-3566	03481	A25-380	NUT PLAIN,BLIND RIV RIVET.....C13	EA	18
65	11	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER, LOCK.....C62	EA	6
65	11	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER, LOCK.....C18	EA	10
65	11	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER LOCK.....A09,A10,A14,C16,C17,C19	EA	12

## SECTION II

TM 9-2330-271-14&P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
65	11	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER, LOCK.....C13	EA	18
65	12	PBOZZ	5340-01-092-4139	19207	11681343	HANDLE, BOW.....C18	EA	1
65	12	PBOZZ	2540-01-031-6397	19207	11681277	HANDRAIL, METALLIC.....C18	EA	1
65	12	PBOZZ	2540-01-031-6397	19207	11681277	HANDRAIL, METALLIC.....C16,C17,C19	EA	2
65	12	PBOZZ	2540-01-031-6397	19207	11681277	HANDRAIL, METALLIC.....C13	EA	3
65	12	PBOZZ	2540-01-091-7625	40670	3234997	HANDLE ASSEMBLY.....A09,A10,A14	EA	2
65	13	PAOZZ	5305-00-071-2241	96906	MS90725-10	SCREW,CAP,HEXAGON.....C62	EA	6
65	13	PAOZZ	5305-00-071-2241	96906	MS90725-10	SCREW,CAP,HEXAGON.H.....C18	EA	10
65	13	PAOZZ	5305-00-071-2241	96906	MS90725-10	SCREW,CAP,HEXAGON.H.....A09,A10,A14,C16,C17,C19	EA	12
65	13	PAOZZ	5305-00-071-2241	96906	MS90725-10	SCREW,CAP,HEXAGON.H.....C13	EA	18
65	14	PAOZZ	2530-00-678-4092	19207	8747218	PIN AND CHAIN ASSV.....C14,C15	EA	1
65	15	PAOZZ	2540-01-089-9133	19207	11646333	BOX,STOWAGE,VEHICUL.....C14,C15	EA	1
65	16	XDOZZ	2540-01-091-7624	40670	3486748	BRACKET ASSEMBLY,DO.....A09,A14	EA	3
65	17	PAOZZ	5305-00-292-7947	96906	MS24627-66	SCREW,TAPPING,THREA THREAD FORMING.....A09,A14	EA	12
E-168/(E-169 BLANK)								

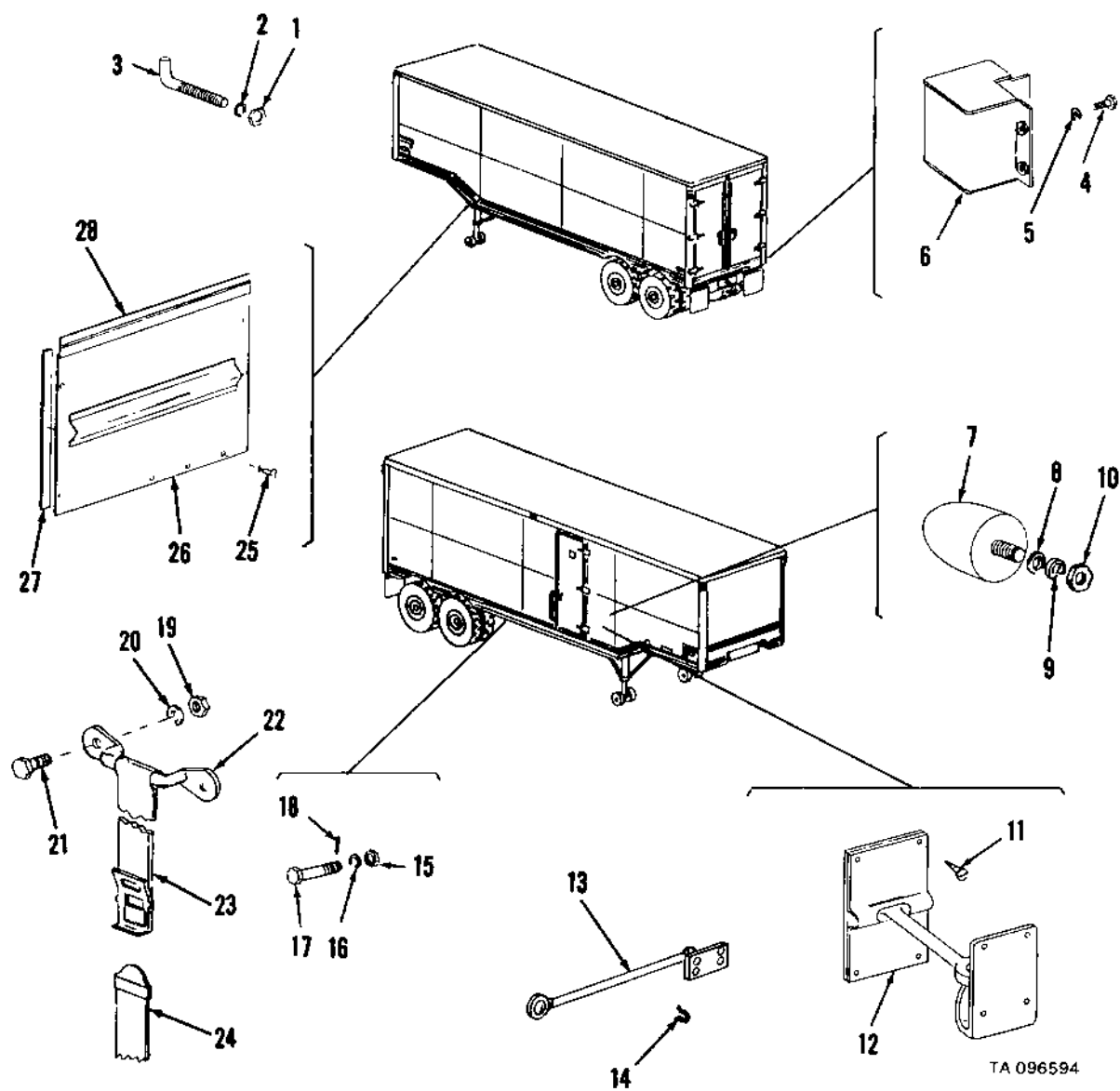


Figure 66. Miscellaneous body parts.

## SECTION II

TM 9-2330-271-14&amp;P

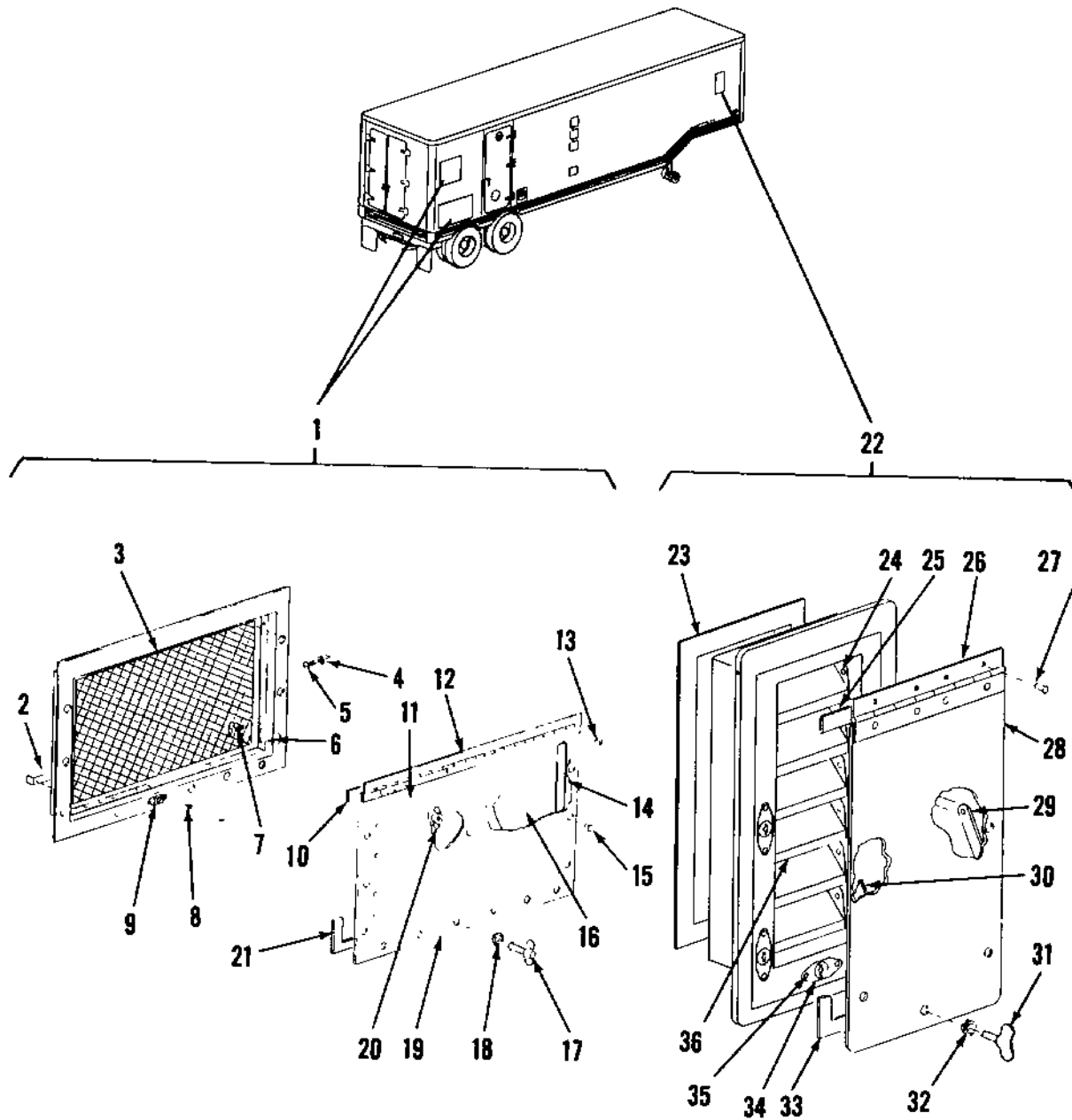
(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
66	1	PAOZZ	5310-00-880-7744	96906	MS51967-5	NUT, PLAIN, HEXAGON .....	EA	2
66	2	PAOZZ	5310-00-407-9566	96906	MS35338-45	WASHER, LOCK .....	EA	2
66	3	PAOZZ	5306-01-034-3418	19207	10882285	BOLT, HOOK .....	EA	2
66	4	XDOZZ	5305-00-543-2419	96906	MS35291-061	SCREW CAP, HEXAGON H A09, A10, A11, A14, C58, C59, 140, 26F	EA	8
66	4	PAOZZ	5305-00-915-8087	96906	MS18154-113	SCREW CAP, HEXAGON H C13, C14, C15, C16, C17, C18, C19, C61, C62	EA	8
66	4	PAOZZ	5305-00-042-6417	96906	MS90725-113	SCREW CAP, HEXAGON H .....	EA	8
66	5	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER, LOCK .....	EA	8
66	5	PAOZZ	5310-00-584-5272	96906	MS35338-48	WASHER, LOCK. A12, A13, C13, C14, C15, C16, C17, C18, C19, C61, C62	EA	8
66	6	PAOZZ	2540-01-046-0367	19207	10891528	BUMPER, VEHICULAR REAR, LEFT HAND .....	EA	1
66	6	PFOZZ	2540-01-032-7419	19207	10891529	BUMPER, VEHICULAR REAR, RIGHT HAND .....	EA	1
66	7	PAOZZ	5340-00-929-8372	19207	8747317	BUMPER, RUBBER .....	EA	2
66	7	PAOZZ	5340-00-929-8372	19207	8747317	BUMPER, RUBBER. A11, A12, A13, C16, C18, C58, C59, 140, 26F	EA	3
66	7	PAOZZ	5340-00-929-8372	19207	8747317	BUMPER, RUBBER .....	EA	4
66	8	PAOZZ	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT .....	EA	4
66	9	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER, LOCK .....	EA	2
66	9	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER, LOCK .....	EA	3
66	9	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER, LOCK .....	EA	4
66	10	PAOZZ	5310-00-732-0558	96906	MS51967-8	NUT, PLAIN, HEXAGON .....	EA	2
66	10	PAOZZ	5310-00-732-0559	96906	MS51968-8	NUT, PLAIN, HEXAGON .....	EA	2
66	10	PAOZZ	5310-00-732-0559	96906	MS51968-8	NUT, PLAIN, HEXAGON A11, A12, A13, C16, C18, C58, C59, 140, 26F	EA	3
66	10	PAOZZ	5310-00-732-0559	96906	MS51968-8	NUT, PLAIN, HEXAGON .....	EA	4
66	11	PAOZZ	5305-00-855-0967	96906	MS24629-37	SCREW, TAPPING, THREA THREAD FORMING .....	EA	16
66	11	PAOZZ	5305-00-855-0967	96906	MS24629-37	SCREW, TAPPING, THREA THREAD FORMING .....	EA	24
66	11	PAOZZ	5305-00-432-4172	96906	MS51861-37	SCREW, TAPPING, THREA THREAD FORMING A11, C58, C59	EA	24
66	11	PAOZZ	5305-00-432-4172	96906	MS51861-37	SCREW, TAPPING, THREA THREAD FORMING C13, 140, 26F	EA	32
66	11	PAOZZ	5305-00-432-4172	96906	MS51861-37	SCREW, TAPPING, THREA THREAD FORMING .....	EA	20
66	11	PAOZZ	5305-00-432-4252	96906	MS51861-66	SCREW, TAPPING .....	EA	16
66	11	PAOZZ	5305-00-432-4252	96906	MS51861-66	SCREW, TAPPING .....	EA	24
66	12	PAOZZ	2540-00-918-4191	19207	8747118	HOLDER ASSEMBLY .....	EA	2
66	12	PAOZZ	2540-00-918-4191	19207	8747118	HOLDER ASSEMBLY .....	EA	3
66	12	PAOZZ	2540-00-918-4191	19207	8747118	HOLDER ASSEMBLY. DOOR .....	EA	4
66	13	XBOZZ	2540-01-091-7621	40670	3486743	DOOR, HOLD-BACK ASSE .....	EA	4
66	14	PAOZZ	5340-00-584-9400	92026	OB	CLIP, SPRING TENSION .....	EA	4
66	15	PAOZZ	5310-00-763-8901	92906	MS51968-23	NUT, PLAIN, HEXAGON .....	EA	4
66	15	PAOZZ	5310-00-763-8901	92906	MS51968-23	NUT, PLAIN, HEXAGON .....	EA	6
66	15	PAOZZ	5310-00-763-8901	92906	MS51968-23	NUT, PLAIN, HEXAGON .....	EA	6
66	15	PAOZZ	5310-00-732-0560	92906	MS51968-14	NUT, PLAIN, HEXAGON .....	EA	24
66	15	PAOZZ	5310-00-763-8920	92906	MS51967-20	NUT, PLAIN, HEXAGON .....	EA	24
66	15	PAOZZ	5310-00-763-8920	92906	MS51968-23	NUT, PLAIN, HEXAGON .....	EA	24
66	16	PAOZZ	5310-00-052-6454	92906	MS35340-51	WASHER, LOCK .....	EA	6

E-171



TM 9-2330-271-14&P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
66	16	PAOZZ	5310-00-052-6454	96906	MS35340-51	WASHER, LOCK.....C13	EA	6
66	16	PAOZZ	5310-00-584-5272	96906	MS35338-48	WASHER, LOCK.....A11, C58, C59, 140, 26F	EA	24
66	16	PAOZZ	5310-00-820-6653	80045	23MS35338-50	WASHER, LOCK.....A09, A12, A13, A14	EA	24
66	16	PAOZZ	5310-00-820-6653	80045	23MS35338-50	WASHER, LOCK.....C13	EA	24
66	17	XDOZZ	5305-00-929-9218	96906	MS51106-463	SCREW, CAP, HEXAGON.....C61, C62	EA	2
66	17	XDOZZ	5305-00-929-9218	96906	MS51106-463	SCREW, CAP, HEXAGON.H.....C14, C15, C16, C17, C18, C19	EA	6
66	17	XDOZZ	5305-00-929-9218	96906	MS51106-463	SCREW, CAP, HEXAGON.H.....C13	EA	6
66	17	PAOZZ	5305-00-762-6041	96906	MS90726-189	SCREW, CAP, HEXAGON.H.....C61, C62	EA	4
66	17	PAOZZ	5305-00-719-5184	96906	MS90727-109	SCREW, CAP, HEXAGON.H.....A11, C58, C59, 14, 0, 26F	EA	24
66	17	PAOZZ	5305-00-727-5677	96906	MS90726-162	SCREW, CAP, HEXAGON.H.....A09, A12, A13, A14	EA	24
66	17	PAOZZ	5305-00-727-5677	96906	MS90726-162	SCREW, CAP, HEXAGON.H.....C13	EA	24
66	18	PAOZZ	5315-00-013-7214	96906	MS24665-359	PIN, COTTER DOLLY ATTACH.....C61, C62	EA	2
66	18	PAOZZ	5315-00-013-7214	96906	MS24665-359	PIN, COTTER.....C14, C15, C16, C17, C18, C19	EA	6
66	18	PAOZZ	5315-00-013-7214	96906	MS24665-359	PIN, COTTER.....C13	EA	6
66	19	PAOZZ	5310-00-934-9751	96906	MS35650-302	NUT, PLAIN, HEXAGONC14, C15, C16, C17, C18, C19, C58, C59	EA	16
66	19	PAOZZ	5310-00-934-9751	96906	MS35650-302	NUT, PLAIN.....A09, A11, A12, A13, A14, 140, 26F	EA	8
66	20	PAOZZ	5310-00-045-3296	96906	MS35338-43	WASHER, LOCK.....C14, C15, C16, C17, C18, C19, C58, C59	EA	16
66	20	PAOZZ	5310-00-045-3296	96906	MS35338-43	WASHER, LOCK.....A09, A11, A12, A13, A14, 140, 26F	EA	8
66	21	PAOZZ	5305-00-993-1851	96906	MS35207-267	SCREW MACHINE.....C14, C15, C16, C17, C18, C19, C58, C59	EA	16
66	21	PAOZZ	5305-00-993-1851	96906	MS35207-267	SCREW MACHINE.....A09, A11, A12, A13, A14, 140, 26F	EA	8
66	22	PAOZZ	5340-00-916-6539	96906	MS51939-2	LOOP, STRAP FASTENERC14, C15, C16, C17, C18, C19, C58, C59	EA	8
66	22	PAOZZ	5340-00-916-6539	96906	MS51939-2	LOOP, STRAP FASTENER.....A09, A11, A12, A13, A14, 140, 26F	EA	4
66	23	PAOZZ	5340-01-089-9171	19207	10882135	STRAP, WEBBING.....C14, C15, C16, C17, C18, C19, C58, C59	EA	4
66	24	PAOZZ	5340-01-089-9172	19207	10882134	STRAP, WEBBING.....C58, C59	EA	4
66	24	PAOZZ	5340-01-089-9172	19207	10882134	STRAP, WEBBINGA09, A11, A12, A13, A14, C15, C16, C17, C18, C19, 140, 26F	EA	2
66	24	PAOZZ	5340-01-089-9173	19207	11684309	STRAP, WEBBING.....C14, C15, C16, C17, C18, C19	EA	2
66	25	PAOZZ	5325-00-811-2699	71286	4002-19W	STUD ASSEMBLY, TURNLTURNLOCK FASTENER..A09, A11	EA	11
66	26	PAOZZ	5325-00-826-3620	15207	10907044-5	EVELET, TURNLOCK FAS.....A09, A11	EA	11
66	27	PAOZZ	9320-00-897-5884	19207	10906776	A12, A13, A14, C14, C15, C16, C17, C18, C19, C58, C59, 140, 26F	FT	10
66	27	XDOZZ	9320-00-930-9798	81354	MIL-R-6130ATYP	RUBBER STRIP.....A09, A11	FT	10
66	28	XBOZZ		40670	9348040	A12, A13, A14, C14, C15, C16, C17, C18, C19, C58, C59, 140, 26F	EA	1
E-172/(E-173 BLANK)								



TA 096497

Figure 67. Heat exchanger opening assembly, XM680; fresh air opening assembly, XM680, XM680E1.

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
67	1	XDOZZ		40670	3486985	GROUP 1812 SPECIAL PURPOSE BODIES		
67	1	XDOZZ		40670	3486956	OPENING ASSEMBLY LOWER .....	A09	EA 2
67	2	PAOZZ	5330-01-103-5701	40670	34861827	OPENING ASSEMBLY LOWER .....	A09	EA 2
67	3	PAOZZ	2540-01-098-1938	40670	3486981	.RUBBER STRIP U/O NHA 3486956, 3486985 .....	A09	FT 17
67	3	PAOZZ	2540-01-101-8356	40670	3486969	.SCREEN ASSEMBLY, UPP U/O NHA 3486985 .....	A09	EA 1
67	4	PAOZZ	5310-00-596-7693	96906	MS35335-31	.SCREEN ASSEMBLY, UPP U/O NHA 3486986 .....	A09	EA 1
67	5	PAOZZ	5305-00-432-4171	96906	MS51861-36	.WASHER LOCK U/O NHA 3486986,3486985 .....	A09	EA 10
67	6	PAOZZ	5310-00-952-3632	19207	8741247-30	.SCREW,TAPPING,THREA U/O NHA 3486986,3486985.A09	A09	EA 10
67	7	PAOZZ	5305-00-919-5070	19207	10882136	.NUT,PLAIN,BLIND RIV U/O NHA 3486986,3486985..	A09	EA 4
67	8	PAOZZ	5320-00-638-8619	88044	AN426A4-8	.THUMBSCREW U/O NHA 3486986,3486985.....	A09	EA 2
67	9	PAOZZ	5325-01-031-8998	19207	7327426-2	.RIVET,SOLID U/O NHA 3486985 .....	A09	EA 26
67	10	PAOZZ	5330-01-105-2880	40670	3486934	.RECEPTACLE,TURNLOCK U/O NHA 3486985 .....	A09	EA 13
67	11	PAOZZ	5320-00-242-1578	96906	MS20470A6-8	.RUBBER STRIP U/O NHA 3486986,3486985 .....	A09	FT 7
67	11	PAOZZ	5320-00-849-9356	96906	MS20470A8-9	.RIVET,SOLID U/O NHA 3486985 .....	A09	EA 51
67	12	XDOZZ		40670	3486980	.RIVET,SOLID U/O NHA 3486986 .....	A09	EA 35
67	12	XDOZZ		40670	3486953	.HINGE,BUTT U/O NHA 3486985 .....	A09	EA 1
67	13	PAOZZ	5320-00-242-1579	96906	MS20470A6-7	.HINGE,BUTT U/O NHA 3486986.....	A09	EA 1
67	14	XDOZZ		40670	3486978	.RIVET,SOLID U/O NHA 3486986 .....	A09	EA 18
67	14	XDOZZ		40670	3486955	.HINGE,BUTT U/O NHA 3486985.....	A09	EA 2
67	15	PAOZZ	5320-00-242-1578	96906	MS20470A6-8	.HINGE,BUTT U/O NHA 3486986.....	A09	EA 2
67	16	XBOZZ		40670	3486979	.RIVET,SOLID U/O NHA 3486985 .....	A09	EA 40
67	16	XBOZZ		40670	3486954	.SHIELD U/O NHA 3486985 .....	A09	EA 2
67	17	PAOZZ	5325-00-290-8026	19207	10907045-5	.SHIELD U/O NHA 3486986 .....	A09	EA 2
67	18	PAOZZ	5325-00-826-3620	19207	10907044-5	.STUD ASSEMBLY,TURNL U/O NHA 3486985.....	A09	EA 13
67	19	XBOZZ		40670	3486977	.EVELET,TURNLOCK FASU/O NHA 3486985 .....	A09	EA 13
67	19	XBOZZ		40670	3486952	.COVER,ACCESS U/O NHA 3486985 .....	A09	EA 1
67	20	PAOZZ	5310-00-080-8495	96906	MS35425-39	.COVER,ACCESS U/O NHA 3486986.....	A09	EA 1
67	21	PAOZZ	5330-01-120-9316	40670	2949995	.NUT,PLAIN,WING U/O NHA 3486986,3486985 .....	A09	EA 1
67	22	XDOZZ		40670	3486946	.RUBBER,STRIP U/O NHA 3486986,3486985 .....	A09	EA 15
67	23	PAOZZ	2540-01-098-1937	40670	3486989	FRAME ASSEMBLY.....	A09,A14	EA 2
67	24	PAOZZ		07707	AD-42	.SCREEN ASSEMBLY,FRE.....	A09,A14	EA 1
67	25	PAOZZ	5330-01-105-2880	40670	3486934	.RIVET.....	A09,A14	EA 28
67	26	XDOZZ		40670	3486945	.RUBBER STRIP.....	A09,A14	FT 1
67	27	PAOZZ	5320-00-242-1578	96906	MS20470A6-8	.HINGE,BUTT .....	A09,A14	EA 1
67	28	XBOZZ		40670	3486944	.RIVET,SOLID.....	A09,A14	EA 8
67	29	PAOZZ	5340-01-048-6635	19207	10882483-2	.COVER,ACCESS.....	A09,A14	EA 1
67	30	PAOZZ	5340-01-048-6634	19207	10882483-1	.STAY,FOLDING RH.....	A09,A14	EA 1
67	31	PAOZZ	5325-00-290-8026	19207	10907045-5	.STAY,FOLDING LH.....	A09,A14	EA 1
67	32	PAOZZ	5325-00-826-3620	19207	10907044-5	.STUD ASSEMBLY,TURNL TURNLOCK FASTENERA09,A14	A09,A14	EA 5
						.EYELET,TURNLET FAS FASTENER.....	A09,A14	EA 5

E-175

## SECTION II

**TM 9-2330-271-14&P**

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
67	33	PAOZZ	5330-01-120-9316	40670	2949995	.RUBBER,STRIP.....A09,A14	FT	7
67	34	PAOZZ	5325-01-031-8998	19207	7327426-2	.RECEPTACLE,TURNLOCK.....A09,A14	EA	5
67	35	PAOZZ	5320-00-638-8619	88044	AN426A4-8	.RIVET,SOLID.....A09,A14	EA	10
67	36	XBOZZ		40670	3486986	.GRILLE.....A09,A14	EA	6
<b>E-176/(E-177 BLANK)</b>								

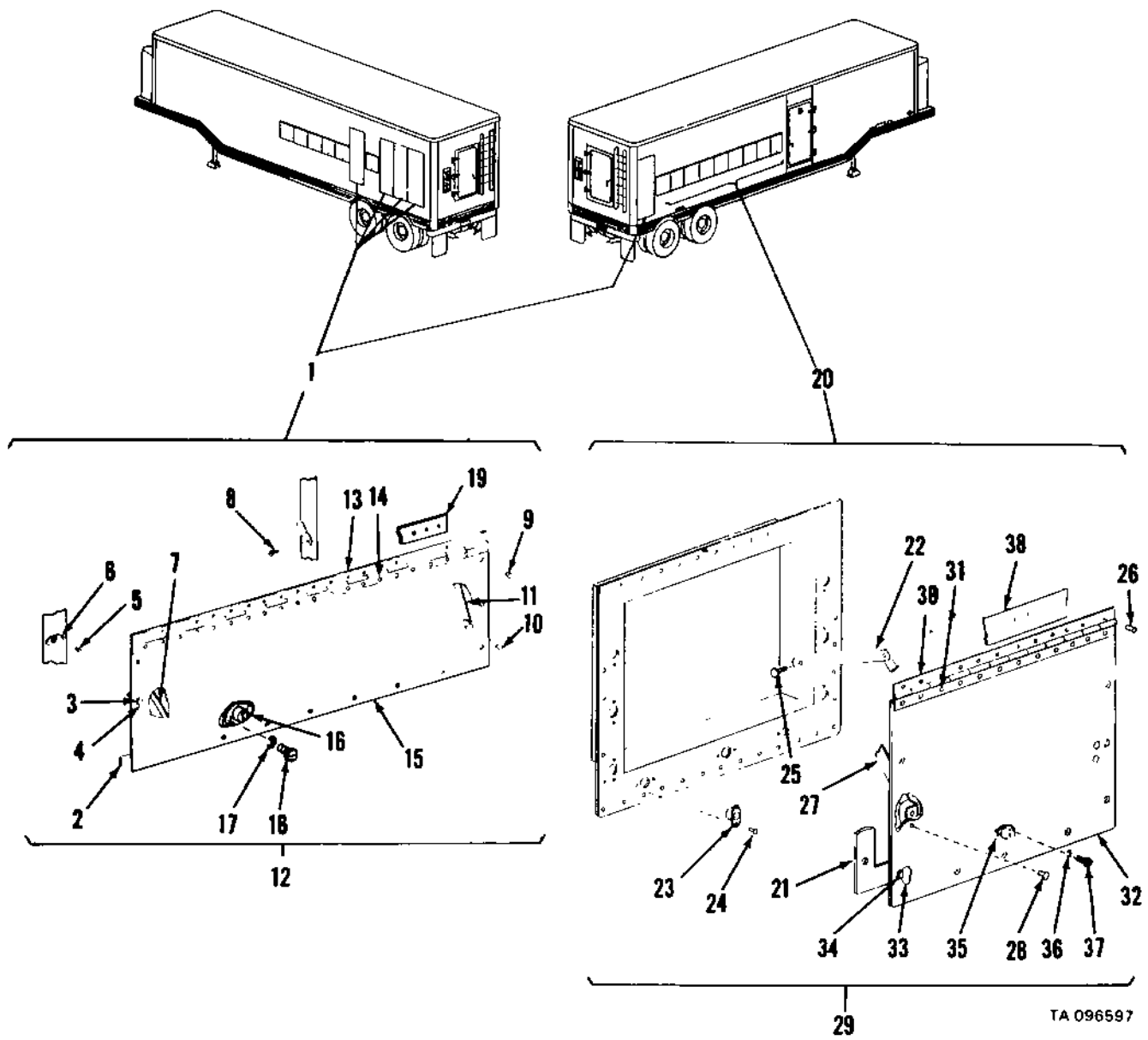


Figure 68. Access openings, XM654.

## SECTION II

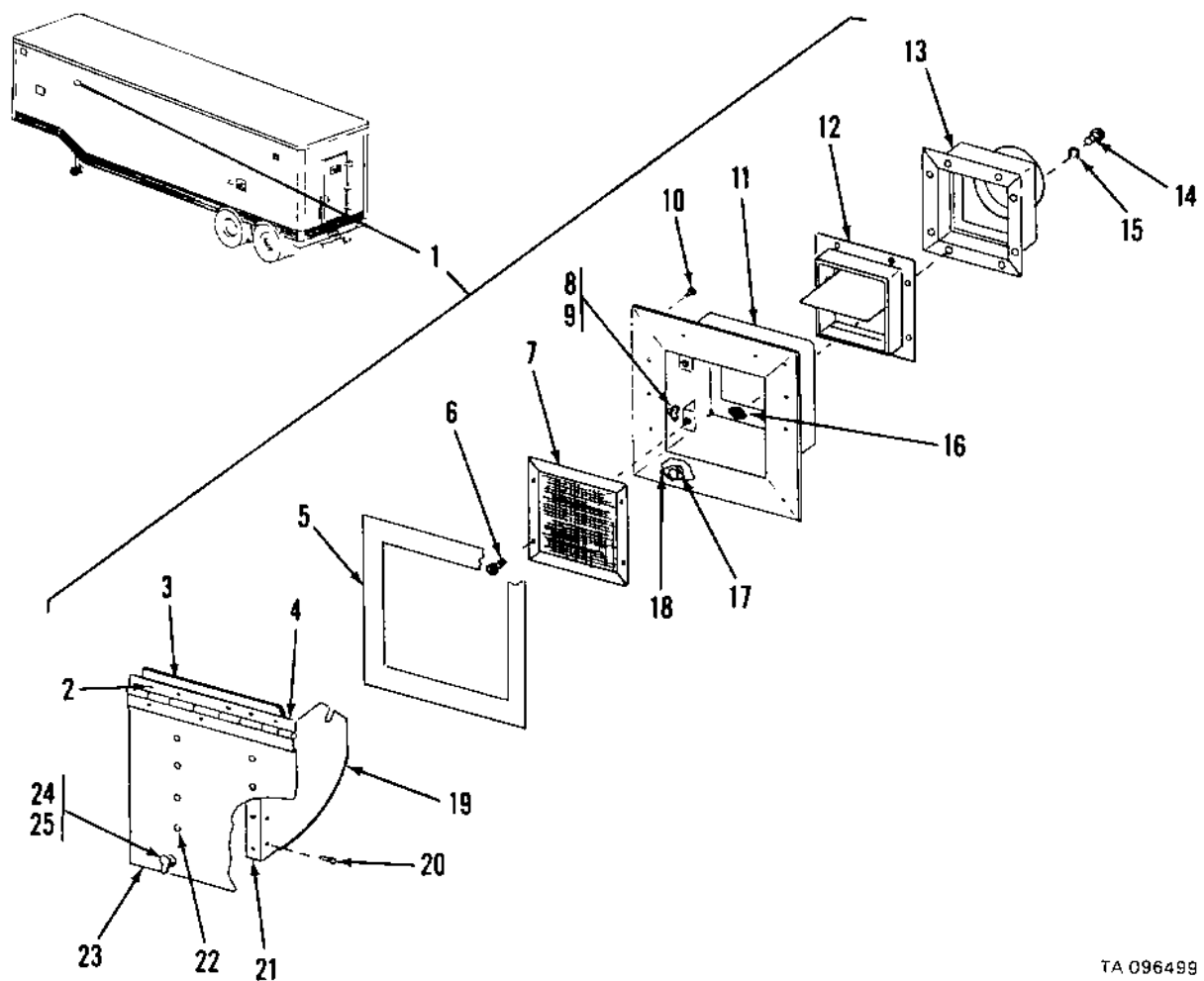
TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
68	1	XDOZZ		40670	3234919-4	FRAME ASSEMBLY LEFT SIDE ..... A10	EA	3
68	1	XDOZZ		40670	3234919-5	FRAME ASSEMBLY LEFT SIDE ..... A10	EA	1
68	1	XDOZZ		40670	3234918	FRAME ASSEMBLY RIGHT SIDE ..... A10	EA	1
68	2	PAOZZ	9320-00-897-5884	19207	10906776	RUBBER STRIP U/O NHA 3234919-4,3234919-5,3234918.A10	FT	13
68	2	ZDOZZ	9320-00-930-9798	81349	MIL-R-6130ATYP	RUBBER STRIP. .... A10	FT	13
68	3	PAOZZ	5325-00-826-3620	19207	10907044-5	EVELET,TURNLOCK FAS U/O NHA 3234919-4,3234919-5, 3234918.A10 .....	EA	17
68	4	PAOZZ	5325-00-290-3816	19207	10907045-1	STUD ASSEMBLY U/O NHA 3234919-4,3234919-5, 3234918.A10 .....	EA	17
68	5	PAOZZ	5320-00-721-5211	96906	MS20470A4-6	RIVET,SOLID U/O NHA 3234919-4,3234919-5,3234918.A10	EA	34
68	6	PAOZZ	5325-01-031-8998	19207	7327426-2	RECEPTACLE,TURNLOCK U/O NHA 3234919-4,3234919-5, 3234918.A10 .....	EA	17
68	7	PAOZZ	5340-00-060-0122	19207	7416878-2	STAY,FOLDING U/O NHA 3234919-4,3234919-5,3234918.A10	EA	1
68	8	PAOZZ		40670	31691032	SCREW,SHOULDERU/O NHA3234919-4,3234919-5,3234918....A10	EA	2
68	9	PAOZZ	5320-00-242-1576	96906	MS20470A6-12	RIVET,SOLID U/O NHA 3234919-4,3234919-5,3234918.A10	EA	34
68	10	PAOZZ	5320-00-242-1580	96906	MS20470A6-6	RIVET,SOLID U/O NHA 3234919-4,3234919-5,3234918.A10	EA	2
68	11	PAOZZ	5340-00-060-0122	19207	7416878-2	STAY,FOLDING U/O NHA 3234919-4,3234919-5,3234918.A10	EA	1
68	12	XDOZZ		40670	3234927	COVER ASSEMBLY ..... A10	EA	3
68	12	XDOZZ		40670	3234927-1	COVER ASSEMBLY ..... A10	EA	1
68	12	XDOZZ		40670	3234928	COVER ASSEMBLY ..... A10	EA	1
68	13	XDOZZ		40670	3234931	HINGE,BUTT U/O NHA 3234927,3234927-1,3234928 A10	EA	1
68	14	PAOZZ	5320-00-242-1580	96906	MS20470A6-6	RIVET,SOLID U/O NHA 3234919-4,3234919-5,3234918.A10	EA	37
68	15	XBOZZ		40670	3234929	COVER ACCESS U/O NHA 3234927 ..... A10	EA	3
68	15	XBOZZ		40670	3234929-1	COVER ACCESS U/O NHA 3234927-1 ..... A10	EA	1
68	15	XBOZZ		40670	3234930	COVER ACCESS U/O NHA 3234928 ..... A10	EA	1
68	16	XDOZZ		94222	44-99-223-13	LOCK ACCESS COVER U/O NHA 3234919-4,3234919-5, 3234918..... A10	EA	1
68 2	17	PAOZZ	5310-00-045-3296	96906	MS35338-43	WASHER LOCK U/O NHA3234919-4,3234919-5,3234918.A10	EA	
68	18	PAOZZ	5305-00-984-6210	96906	MS35206-263	SCREW MACHINEU/O NHA3234919-4,3234919-5,3234918.A10	EA	2
68	19	PAOZZ	5330-00-878-1726	81348	MILC20696TYPE 2CLASS3	CLOTH COATEDU/ONHA3234919-4,3234919-5,3234918.A10	EA	2

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
68	30	XDOZZ		40670	3234926	HINGE, BUTT U/O NHA 3234924, 3234924-1..... A10	EA	1
68	31	PAOZZ	5320-00-242-1580	96906	MS20470A6-6	.RIVET, SOLID ..... A10	EA	11
68	32	XBOZZ		40670	3234925	COVER, ACCESS U/O NHA 3234924..... A10	EA	1
68	32	XDOZZ		40670	3234925-1	COVER, ACCESS U/O NHA 3234924 1 ..... A10	EA	1
68	33	XDOZZ		94222	44-99-223-13	.LOCK, ACCESS COVER..... A10	EA	1
68	34	PAOZZ	5325-00-290-3816	19207	1090745-1	.STUD ASSEMBLY, TURNL..... A10	EA	9
68	35	PAOZZ	5325-00-826-3620	19207	10907044-5	.EYELET, TURNLOCK FAS..... A10	EA	9
68	36	PAOZZ	5310-00-045-3296	96906	MS35338-43	.WASHER, LOCK ..... A10	EA	2
68	37	PAOZZ	5305-00-984-6210	96906	MS35206-263	.SCREW, MACHINE ..... A10	EA	2
68	38	XDOZZ		81348	MILC20696TYP-	.CLOTH, COATED..... A10	FT	2
					<b>E-180/(E-181 BLANK)</b>			

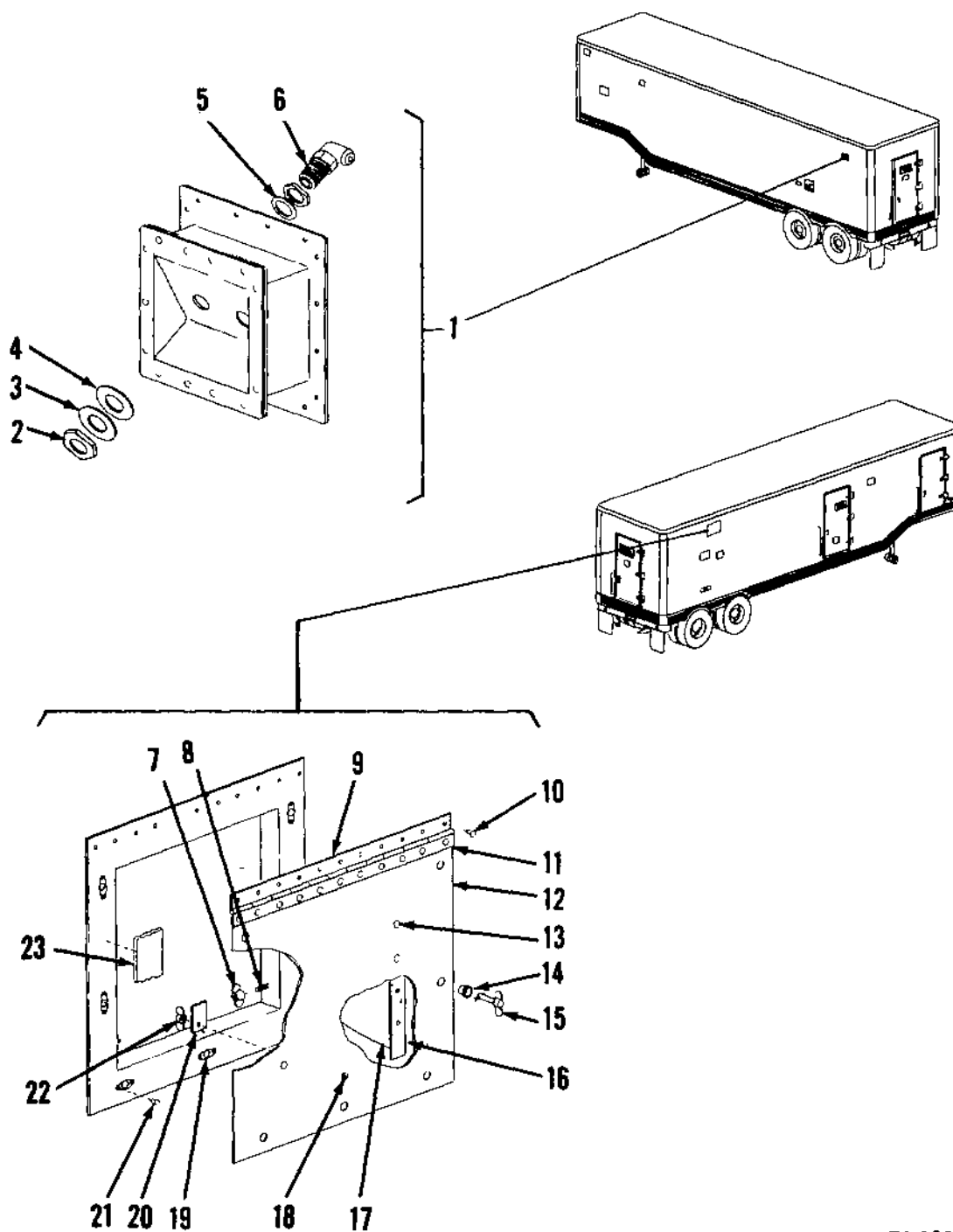


TA 096499

Figure 69. Discharge assembly, blower exhaust, XM822.



(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
69	1	XDOZZ		19207	11683046	DISCHARGE ASSEMBLY ..... C13	EA	1
69	2	PAOZZ	5320-01-030-9997	96906	MS20470A6-10	.RIVET, SOLID ..... C13	EA	6
69	3	XBOZZ		19207	11683047-5	.SPACER..... C13	EA	1
69	4	XDOZZ		40670	11683047-2	.HINGE, BUTT ..... C13	EA	1
69	5	XDOZZ		19207	11683268	.SEAL ..... C13	EA	1
69	6	PAOZZ	5305-00-855-0964	96906	MS24629-48	.SCREW, TAPPING.THREA THREAD FORMING..... C13	EA	4
69	7	XDOZZ		19207	11683054	.SCREEN ASSEMBLY..... C13	EA	1
69	8	PAOZZ	5310-00-720-8549	96906	MS35426-13	.NUT, PLAIN, WING ..... C13	EA	2
69	9	PAOZZ	5310-01-112-4372	96906	MS21331-2	.NUT, PLAIN, CLINCH..... C13	EA	2
69	10	PAOZZ	5320-00-264-3351	88044	AN426A3-7	.RIVET, SOLID ..... C13	EA	16
69	11	XBOZZ		19207	11683048	.DISCHARGE HOUSING..... C13	EA	1
69	12	XDOZZ		19207	11683049	.DAMPER ASSEMBLY ..... C13	EA	1
69	13	XDOZZ		19207	11603050	.DUCT DAMPER..... C13	EA	1
69	14	PAOZZ	5305-00-052-6917	96906	MS24629-50	.SCREW, TAPPING, THREA THREAD FORMING..... C13	EA	8
69	15	PAOZZ	5310-00-045-3296	96906	MS35338-43	.WASHER, LOCK ..... C13	EA	8
69	16	PAOZZ	5310-00-062-5300	72962	22NA21J82	.NUT, SELF-LOCKING, PL..... C13	EA	8
69	17	PAOZZ	5325-01-117-7453	19207	7327426-1	.RECEPTACLE..... C13	EA	2
69	18	PAOZZ	5320-00-582-3494	96906	MS20600AD4-4	.RTVET, BLIND ..... C13	EA	4
69	19	PAOZZ		19207	11683047-7	.RAINSIELD ..... C13	EA	2
69	20	PAOZZ	532-01-112-8727	96906	MS20470A4-2	.RIVET, SOLID ..... C13	EA	8
69	21	XDOZZ		40670	1163047-3	.HINGE, BUTT ..... C13	EA	2
69	22	PAOZZ	5320-00-584-9078	96906	MS20470A4-4	.RIVET, SOLID ..... C13	EA	8
69	23	XBOZZ		19207	11683047-1	.COVER, ACCESS ..... C13	EA	1
69	24	PAOZZ	5325-00-624-9931	71286	4002-15W	.STUD ASSEMBLY, TURNL TURNLOCK FASTENER C13	EA	2
69	25	PAOZZ	5325-00-584-1271	19207	10907044-3	.EYELET, TURNLOCK FASTENER..... C13	EA	2



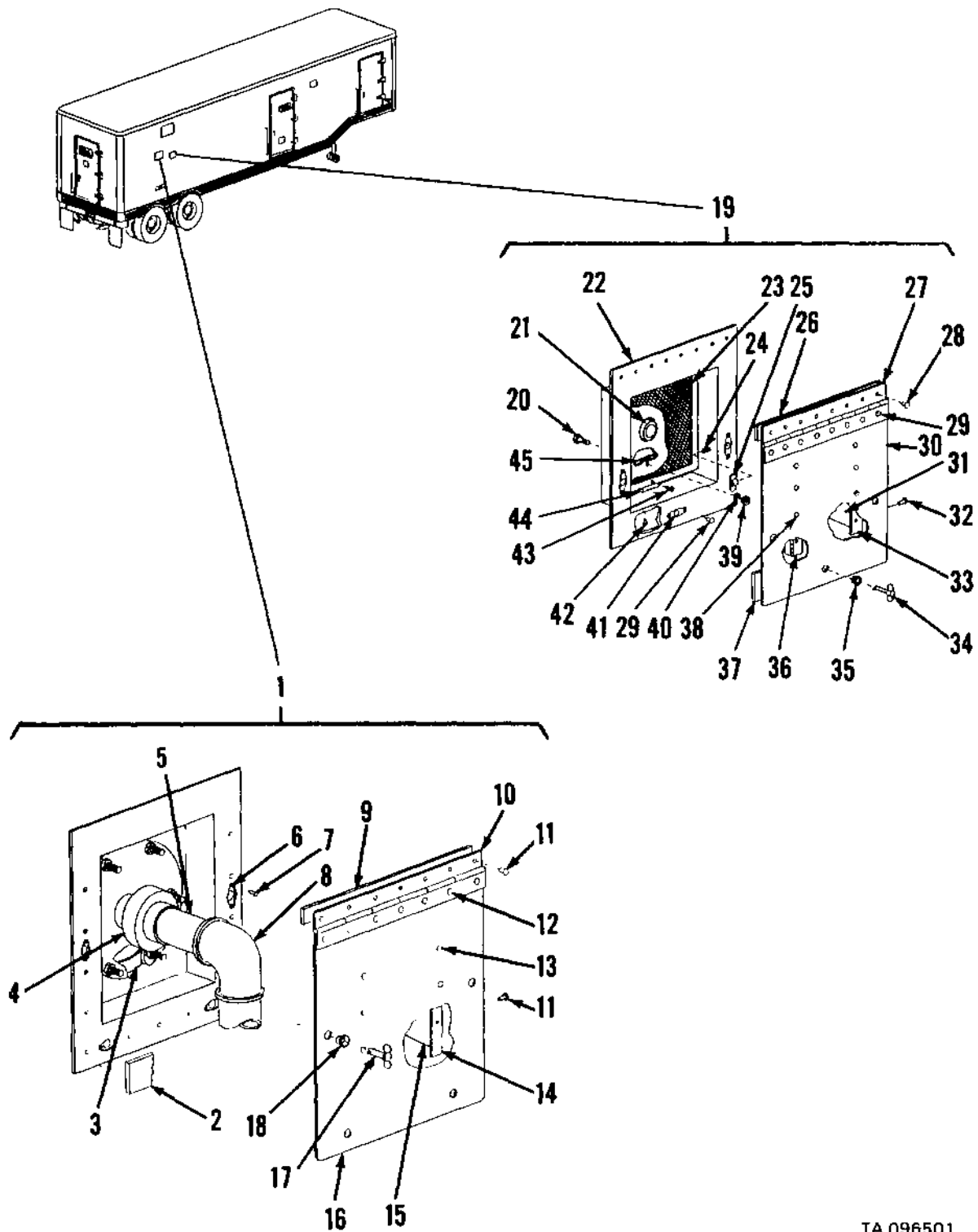
TA 096500

Figure 70. Propane vent outlet, knock engine condenser frame, XM822.

## SECTION II

TM 9-2330-271-14&P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
70	1	XDOZZ		19207	11682880	OUTLET ASSEMBLY ..... C13	EA	2
70	2	PAOZZ	4730-00-244-9848	40670	11682888	.NIPPLE, TANK ..... C13	EA	1
70	3	PAOZZ	5310-00-809-8541	96906	MS27183-27	.WASHER, FLAT ..... C13	EA	1
70	4	XDOZZ		19207	11682887	GASKET ..... C13	EA	2
70	5	PAOZZ	5330-01-125-6276	40670	11682889	.WASHER, FLAT ..... C13	EA	1
70	6	XDOZZ		93061	152FS6-8	ELBOW ..... C13	EA	1
70	7	PAOZZ	5310-00-515-9267	96906	MS35425-37	NUT, PLAIN, WING ..... C13	EA	2
70	8	PAOZZ	5307-00-358-0297	96906	MS51989-104-10	STUD, LOCKED IN..... C13	EA	2
70	9	XDOZZ		40670	11682835	NUT, SELF-LOCKING, PL..... C13	EA	1
70	10	PAOZZ	5320-00-721-5211	96906	MS20470A4-6	RIVET, SOLID ..... C13	EA	11
70	11	PAOZZ	5320-00-584-9078	96906	MS20470A4-4	RIVET, SOLID ..... C13	EA	11
70	12	XBOZZ		19207	11682834	COVER,ACCESS ..... C13	EA	1
70	13	PAOZZ	5320-00-616-4869	96906	MS20470A4-3	RIVET, SOLID ..... C13	EA	12
70	14	PAOZZ	5325-00-624-9931	19207	10907044-3	EYELET, TURNLOCK FASTENER..... C13	EA	7
70	15	PAOZZ	5325-00-624-9931	71286	4002-15	STUD ASSEMBLY TURNL TURNLGCK FASTENER.. C13	EA	7
70	16	XDOZZ		40670	11682838	HINGE, BUTT ..... C13	EA	2
70	17	XBOZZ		19207	11682836	RAINSHIELD ..... C13	EA	2
70	18	PAOZZ	5305-00-225-3842	96906	MS90728-9	SCREW, CAP,HEXA CON H ..... C13	EA	1
70	19	PAOZZ	5325-01-031-8998	19207	7327426-2	RECEPTACLE, TURNLOCK ..... C13	EA	7
70	20	XDOZZ	5340-01-111-5388	40670	11682837	PLATE, RETAINER VENT ..... C13	EA	1
70	21	PAOZZ	5320-00-582-3494	96906	MS20600AD4-4	RIVET, BLIND..... C13	EA	14
70	22	PAOZZ	5310-00-080-8495	96906	MS35425-39	NUT, PLAIN, WING ..... C13	EA	1
70	23	PAOZZ	9320-00-897-5884	19207	10906776	RUBBER STRIP ..... C13	FT	11



TA 096501

Figure 71. Exhaust outlet assembly, knock engine breather assembly, XM822.

## SECTION II

TM 9-2330-271-14&amp;P

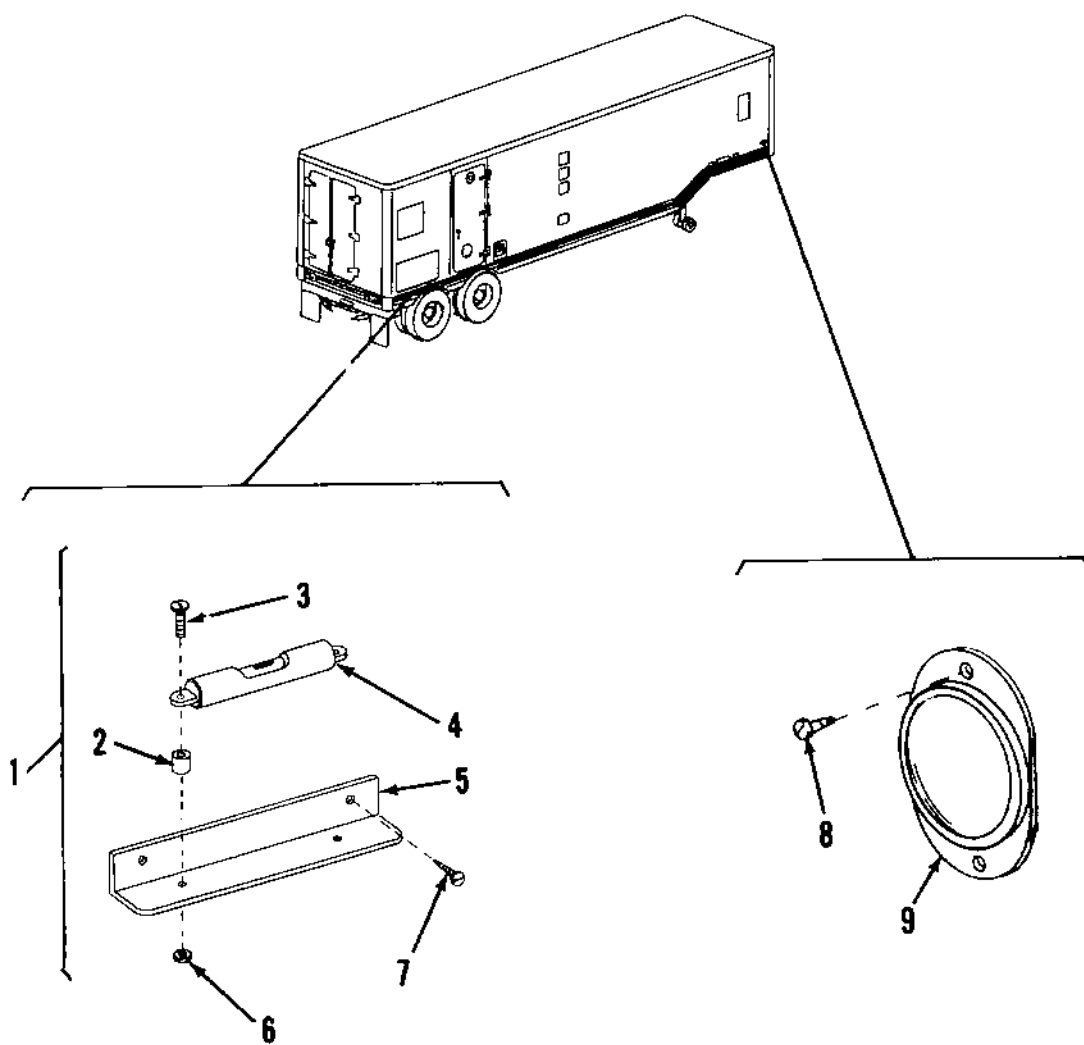
(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
71	1	XDOZZ		19207	11683055	EXHAUST OUTLET ASSEMBLY..... C13	EA	1
71	2	PAOZZ	9320-00-897-5884	19207	10906776	.RUBBER STRIP ..... C13	FT	4
71	3	PAOZZ	5330-01-125-0939	40670	11683060	.GASKET ..... C13	EA	1
71	4	PAOZZ	4730-00-204-3392	81348	22-U-531	.UNION, PIPE ..... C13	EA	1
71	5	PAOZZ	4730-00-143-4324	96906	MS51953-151	.NIPPLE, PIPE ..... C13	EA	1
71	6	PAOZZ	5325-01-117-7453	19207	7327426-1	.RECEPTACLE ..... C13	EA	4
71	7	PAOZZ	5320-00-582-3494	96906	MS20600AD4-4	.RIVET, BLIND ..... C13	EA	8
71	8	PAOZZ	4730-00-221-5012	96906	MS51845-7	.ELBOW, PIPE ..... C13	EA	1
71	9	XBOZZ		19207	11683057-7	.SPACER ..... C13	EA	1
71	10	XDOZZ		40670	11683057-2	.HINGE, BUTT ..... C13	EA	1
71	11	PAOZZ	5320-00-584-9078	96906	IS20470A4-4	.RIVET, SOLID ..... C13	EA	13
71	12	XOOZZ		96906	MS20470A6-1	RIVET, SOLID ..... C13	EA	7
71	13	PAOZZ	5320-00-721-5210	96906	MS20470A4-5	.RIVET, SOLID ..... C13	EA	6
71	14	XDOZZ		40670	11683057-3	.HINGE BUTT ..... C13	EA	2
71	15	XBOZZ		19207	11683058	.RAINSHIELD ..... C13	EA	2
71	16	XBOZZ		19207	11683057-1	.COVER, ACCESS ..... C13	EA	1
71	17	PAOZZ	5325-00-624-9931	71286	4002-15W	.STUD ASSEMBLY, TURNLOCK FASTENER C13	EA	4
71	18	PAOZZ	5325-00-584-1271	19207	I0907044-3	.EYELET, TURNLOCK FASTENER..... C13	EA	4
71	19	XDOZZ		19207	11682840	BREATHING ASSEMBLY ..... C13	EA	1
71	20	PAOZZ	5305-00-071-2241	96906	MS90725-10	.SCREW, CAP, HEXAGON H..... C13	EA	2
71	22	XDOZZ		19207	11682851	.FRAME ..... C13	EA	1
71	23	XDOZZ	2540-01-111-5386	40670	11682843	.SCREE ASSEMBLY..... C13	EA	1
71	24	PAOZZ	5307-00-358-0297	96906	MS51989-104-10	.STUD, LOCKED IN..... C13	EA	2
71	25	PAOZZ	5310-00-515-9267	96906	MS35425-37	.NUT, PLAIN, WING ..... C13	EA	2
71	26	XBOZZ		19207	11682844	.SPACER ..... C13	EA	1
71	27	XDOZZ		40670	11682846	.HINGE, BUTT ..... C13	EA	1
71	28	PAOZZ	5320-01-113-9S95	96906	MS24662-25	.RIVET, BLIND ..... C13	EA	8
71	29	PAOZZ	5320-00-582-3494	96906	MS20600AD4-4	.RIVET, BLIND ..... C13	EA	12
71	30	XBOZZ		19207	11682847	.COVER, ACCESS ..... C13	EA	1
71	31	XDOZZ		19207	11682848	.RAINSHIELD ..... C13	EA	2
71	32	PAOZZ	5320-00-721-5210	96906	MS20470A4-5	.RIVET, SOLID ..... C13	EA	8
71	33	XDOZZ	40670	11682849-2		.HINGE, BUTT ..... C13	EA	1
71	34	PAOZZ	5325-00-624-9931	71286	4002-15W	.STUD ASSEMBLY, TURNLOCK FASTENER C13	EA	3
71	35	PAOZZ	5325-00-584-1271	19207	I09007044-3	.EYELET, TURNLOCK FASTENER..... C13	EA	3
71	36	XDOZZ		40670	11682849-1	.HINGE, BUTT ..... C13	EA	1
71	37	PAOZZ	5330-01-126-9674	40670	11682850	.GASKET ..... C13	EA	1
71	38	PAOZZ	5320-00-721-5211	96906	MS20470A4-6	.RIVET, SOLID ..... C13	EA	8
71	39	PAOZZ	5310-00-761-6882	96906	MS51967-2	.NUT, PLAIN, HEXAGON ...A09, C13, C15, C16, C17, C18, C19, C61, C62	EA	2
71	40	PAOZZ	5310-00-582-5965	96906	MS35338-44	.WASHER, LOCK ..... C13	EA	2
71	41	PAOZZ	5325-01-031-8998	19207	7327426-2	.RECEPTACLE, TURNLOCK ..... C13	EA	2

E-187

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
71	42	PAOZZ	5320-00-824-4760	81349	M24243-1B408	.RIVET, BLIND..... C13	EA	4
71	43	PAOZZ	5305-00-432-4201	96906	MS51861-45	.SCREW,.TAPPING, THEA THREAD FORMING ..... C13	EA	2
71	44	PAOZZ	5340-00-126-1677	40670	11682842	.BRACKET,ANGLE..... C13	EA	2
71	45	PAOZZ	5330-01-125-0940	40670	11682852	.GASKET ..... C13	EA	1
					<b>E-188/(E-189 BLANK)</b>			



TA 096506

*Figure 72. Level assembly and reflector.*

**TM 9-2330-271-14&P**

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
72	1	PAOZZ	5210-00-001-1255	19207	11638167	GROUP 22 BODY, CHASSIS AND ACCESSORIES GROUP 2202 ACCESSORY ITEMS  LEVEL ASSEMBLY BODY .C13, C14, C15, C16, C17, C19, C58, C59, C61, C62	EA	8
72	1	XDOZZ		40670	31681070	LEVEL ASSEMBLY ..... A11, 140, 26F	EA	8
72	2	XDOZZ	5365-01-051-8631	19207	11638170	.SPACER, SLEEVE .... C13, C14, C15, C16, C17, C18 C19, C58, C59, C61, C62	EA	2
72	2	PAOZZ	5365-00-112-1679	40670	31681072	.SPACER SLEEVE ..... A11, 140, 26F	EA	2
72	3	PAOZZ	5305-00-150-3583	96906	MS27039-812	.SCREW, MACHINE ... C13, C14, C15, C16, C17, C18 C19, C58, C59, C61, C62	EA	16
72	3	PAOZZ	5320-00-242-1587	96906	MS20470A5-12	.RIVET, SOLID ..... A11, 140, 26F	EA	2
72	4	PAOZZ	5210-01-053-3357	19207	11638168	.VIAL, LEVEL.....C13, C14, C15, C16, C17, C18, C19 C58, C59, C61, C62	EA	1
72	4	PAOZZ	5210-00-9296-8364	57163	1986G	.VIAL ASSEMBLY, MECHA ..... A11, 140, 26F	EA	1
72	5	PAOZZ	5340-01-099-1670	19207	11638169	.BRACKET, ANGLE .... C13, C14, C15, C16, C17, C18 C19, C58, C59, C61, C62	EA	1
72	5	PAOZZ	5340-01-131-2303	40670	31681071	.BRACKET, ANGLE ..... A11, 140, 26F	EA	1
72	6	PAOZZ	5310-00-941-6019	96906	MS21083N08	.NUT, SELF-LOCKING, HE .C13, C14, C15, C16, C17 C18, C19, C58, C59, C61, C62	EA	2
72	7	PAOZZ	5305-00-855-0954	96906	MS24629-46	SCREW, TAPPING, THREA THREAD FORMING C58 C59	EA	16
72	7	PAOZZ	5320-00-982-3815	96906	MS24662-153	RIVET, BLIND..... C13	EA	16
72	7	PAOZZ	5320-01-028-4855	96906	MS24662-204	RIVET, BLIND.....A11, C14, C15, C16, C17, C18, C19 C61, C62, 140, 26F	EA	16
72	8	PAOZZ	5305-00-432-4252	96906	MS51861-66	SCREW, TAPPING REFLECTOR ATTACH . A12, A13 C13, C14, C15, C16, C17, C18, C19, C61, C62	EA	16
72	8	PAOZZ	5305-00-432-4201	96906	MS51861-45	SCREW, TAPPING, THREA THREAD FORMING..... A11 140, 26F	EA	16
72	8	PAOZZ	5305-00-855-0957	96906	MS24629-46	SCREW, TAPPING, THREA THREAD FORMING..... C58, C59	EA	16
72	8	PAOZZ	5305-00-432-4203	96906	MS51861-47	SCREW, TAPPING, THREA THREAD FORMING A09 A10, A14	EA	12
72	9	PAOZZ	9905-00-205-2795	96906	MS35387-1	REFLECTOR RED.....A09, A11, A12, A13, A14, C13, C14, C15, C16, C17, C18, C19, C58, C59, C61, C62, 140, 26F	EA	4
72	9	PAOZZ	9905-00-205-2795	96906	MS35387-1	REFLECTOR, INDICATIN ..... A10	EA	2
72	9	PAOZZ	9905-00-202-3639	96906	MS35387-2	REFLECTOR AMBER .A10, A11, A12, A13, C13, C14 C15, C16, C17, C18, C19, C58, C59, C61, C62, 140, 26F	EA	4
72	9	PAOZZ	9905-00-202-3639	96906	MS35387-2	REFLECTOR, INDICATIN ..... A09, A14	EA	2



**SEMITRAILER VAN, 10 TON, 4W, XM 574**

**FEDERAL STOCK NO** 2330-086-7406

MANUFACTURED BY **MILLER TRAILERS, INC.**  
BRADENTON, FLORIDA, U.S.A.

MFG SERIAL NO [REDACTED]

MANUFACTURER'S MODEL **MOBY-373**

CONTRACT NO DA 01 009 ORD 045171

**WEIGHT AND DIMENSION DATA**

**PUBLICATIONS**

PARTS LIST SNL G 883

TECHNICAL MANUAL TM 9 2330 271 4

LUBRICATION CHART TM 9 2330 271 4

DELIVERY DATE [REDACTED] INSPECTED [REDACTED]

WEIGHTS	EMPTY	CROSS COUNTRY	HIGHWAY
PAYLOAD	20,000	20,000	20,000
ON WHEELS	6,250	20,000	20,000
ON KING PIN	2,250	17,750	17,750
TOTAL	8,500	37,750	37,750

SHIPPING CUBAGE 2757 CU FT

**SEMITRAILER VAN, ELECTRONIC, TELEMETERING, 10 TON, 4W, XM654**

**FEDERAL STOCK NO** 2330-973 1608

MANUFACTURED BY **MILLER TRAILERS, INC.**  
BRADENTON, FLORIDA, U.S.A.

MFG SERIAL NO [REDACTED]

MANUFACTURER'S MODEL **WAMP-31**

CONTRACT NO DA 01 009 ORD 045171

**WEIGHT AND DIMENSION DATA**

**PUBLICATIONS**

PARTS LIST SNL G 883

TECHNICAL MANUAL TM 9 2330 271 4

LUBRICATION CHART TM 9 2330 271 4

DELIVERY DATE [REDACTED] INSPECTED [REDACTED]

WEIGHTS	EMPTY	CROSS COUNTRY	HIGHWAY
PAYLOAD			
ON WHEELS			
ON KING PIN			
TOTAL			

SHIPPING CUBAGE 2757 CU FT

**SEMITRAILER VAN, 10 TON, 4W, XM 680**

**FEDERAL STOCK NO** 2330-070 4452

MANUFACTURED BY **MILLER TRAILERS, INC.**  
BRADENTON, FLORIDA, U.S.A.

MFG SERIAL NO [REDACTED]

MANUFACTURER'S MODEL **ETA 680**

CONTRACT NO DA 01 009 ORD 045171

**WEIGHT AND DIMENSION DATA**

**PUBLICATIONS**

PARTS LIST SNL G 883

TECHNICAL MANUAL TM 9 2330 271 4

LUBRICATION CHART TM 9 2330 271 4

DELIVERY DATE [REDACTED] INSPECTED [REDACTED]

WEIGHTS	EMPTY	CROSS COUNTRY	HIGHWAY
PAYLOAD	20,000	20,000	20,000
ON WHEELS	6,250	20,000	20,000
ON KING PIN	2,250	17,750	17,750
TOTAL	8,500	37,750	37,750

SHIPPING CUBAGE 2757 CU FT

**REMOVABLE DOLLY INSTRUCTION PLATE**

6- HOLLOW MOUNTING PLUGS IN DOLLY MATE WITH

6- HOLLOW SOCKETS IN SUBBASE

6- HEX HEAD BOLTS

4- LOCKWASHERS

6- HEX NUTS

6- COTTER PINS

FRONT VIEW OF DOLLY

REAR VIEW OF DOLLY

TO REMOVE DOLLY REMOVE COTTERS NUTS LOCKWASHERS AND HEX HEAD BOLTS SIX PLACES RETAIN BOLT ASSEMBLIES IN A/C LOADING EQUIPMENT BOX FOR FUTURE USE DISCONNECT AIR HOSES FROM SUBBASE LIFT VAN BODY OFF OF DOLLY RAIL USING JACKS AND OUTRIGGERS PROVIDED ROLL DOLLY TOWARD REAR FROM UNDER VAN TO REINSTALL DOLLY REVERSE ABOVE PROCESS, ALIGNING PLUGS AND SOCKETS AS BODY IS SET ON DOLLY BY LOWERING IT WITH JACKS REINSTALL BOLT ASSEMBLIES, SECURELY TIGHTEN BOLTS, THEN INSERT AND BEND COTTERS TO SECURE BOLT ASSEMBLY

SUBBASE HEX BOLT

DOLLY COTTER HEX NUT WASHER

VIEW X-2

(APPLY ROADSIDE ON BODY ABOVE WHEEL WELLS)

**TWO SPEED LANDING GEAR & LEVELING JACK**

**OPERATING INSTRUCTIONS**

1. SLOT IN HANDLE MUST ENGAGE PIN IN SHAFT
2. PULL OUT HANDLE FOR HIGH SPEED TRAVEL
3. PUSH IN HANDLE FOR LOW SPEED TRAVEL
4. TURN CRANK AS SHOWN TO LEVEL TRAILER
5. SET RATCHET ON CRANK HEAD TO OPERATE IN DESIRED DIRECTION

LOWER

RAISE

TA 096515

Figure 73. Name and data plate.

## SECTION II

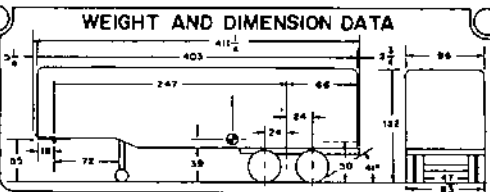
TM 9-2330-271-14&P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 2210 DATA PLATES		
73	1	PAOZZ	5305-00-432-4164	96906	MS51861-25	SCREW, TAPPING, THREA..... A12	EA	10
73	1	PAOZZ	5305-00-432-4164	96906	MS51861-25	SCREW, TAPPING, THREA..... A09, A10	EA	6
73	1	PAOZZ	5305-00-432-4164	96906	MS51861-25	SCREW, TAPPING, THREA THREAD FORMING..... A13	EA	4
73	2	PAOZZ	9905-01-094-9011	19207	10920175	PLATE, IDENTIFICATIO IDENTIFICATION..... A12	EA	1
73	3	PAOZZ	9905-01-098-2011	40670	3234900	PLATE, IDENTIFICATI IDENTIFICATION ..... A10	EA	1
73	4	PAOZZ	9905-01-098-2012	40670	3486910	PLATE, IDENTIFICATI IDENTIFICATION ..... A09	EA	1
73	5	PAOZZ	9905-01-098-2016	19207	11681452	PLATE, INSTRUCTION .....C16,C17, C18, C19, C61, C62	EA	1
73	6	PAOZZ	5305-00-432-4201	96906	MS51861-45	SCREW, TAPPING..... C16,C17, C18, C19, C61, C62	EA	6
73	7	PAOZZ	9905-00-905-4470	19207	10923325	PLATE, INSTRUCTION ..... A12, A13	EA	2
E-193								

1 → SEMITRAILER, VAN TELETYPE, 10-T, 4W, XM823  
 FEDERAL STOCK NO.   
 MANUFACTURED BY  MILLER TRAILERS, INC  
 BRADENTON, FLORIDA  
 2 → MFG SERIAL NO.  2330-127-5404  
 MANUFACTURER'S MODEL  15C/48  
 CONTRACT NO.  044607-89-C-2592

PUBLICATIONS  
 PARTS LIST  TM9-2330-271-14  
 TECHNICAL MANUAL  TM9-2330-271-14  
 LUBRICATION CHART  TM9-2330-271-14

DELIVERY DATE  INSPECTED

WEIGHT AND DIMENSION DATA  


WEIGHTS EMPTY CROSS COUNTRY HIGHWAY  
 PAYLOAD   
 ON WHEELS  8070  
 ON KING PIN  4360  
 TOTAL  12,430

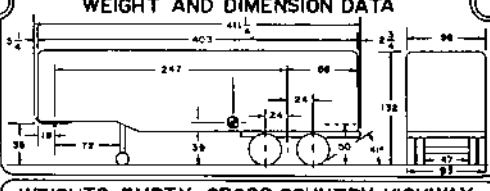
SHIPPING CUBAGE 3022 CU FT

---

1 → SEMITRAILER, VAN CRYPTO, 10-T, 4W, XM824  
 FEDERAL STOCK NO.   
 MANUFACTURED BY  MILLER TRAILERS, INC  
 BRADENTON, FLORIDA  
 3 → MFG SERIAL NO.  2330-127-5415  
 MANUFACTURER'S MODEL  15C/50  
 CONTRACT NO.  044607-89-C-2592

PUBLICATIONS  
 PARTS LIST  TM9-2330-271-14  
 TECHNICAL MANUAL  TM9-2330-271-14  
 LUBRICATION CHART  TM9-2330-271-14

DELIVERY DATE  INSPECTED

WEIGHT AND DIMENSION DATA  


WEIGHTS EMPTY CROSS COUNTRY HIGHWAY  
 PAYLOAD   
 ON WHEELS  8070  
 ON KING PIN  4360  
 TOTAL  12,430

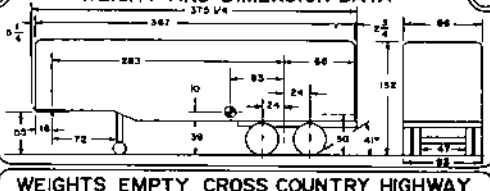
SHIPPING CUBAGE 3022 CU FT

---

4 → SEMITRAILER, VAN ELECTRONIC, 10-T, 4W, XM574E1  
 FEDERAL STOCK NO.  2330-933-9944  
 MANUFACTURED BY  MILLER TRAILERS, INC  
 BRADENTON, FLORIDA  
 5 → MFG SERIAL NO.   
 MANUFACTURER'S MODEL   
 CONTRACT NO.

PUBLICATIONS  
 PARTS LIST  TM9-2330-271-14  
 TECHNICAL MANUAL  TM9-2330-271-14  
 LUBRICATION CHART  TM9-2330-271-14

DELIVERY DATE  INSPECTED

WEIGHT AND DIMENSION DATA  


WEIGHTS EMPTY CROSS COUNTRY HIGHWAY  
 PAYLOAD  20,000  
 ON WHEELS  8850  
 ON KING PIN  11,850  
 TOTAL  21,850

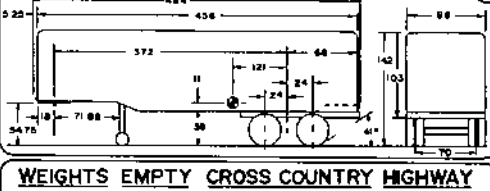
SHIPPING CUBAGE 2710 CU FT

---

1 → SEMITRAILER, VAN SWBD, 10 TON, 4W, XM739E1  
 FEDERAL STOCK NO.  2330-782-1377  
 MANUFACTURED BY  MILLER TRAILERS, INC  
 BRADENTON, FLORIDA  
 6 → MFG SERIAL NO.   
 MANUFACTURER'S MODEL  XM739E1  
 CONTRACT NO.

PUBLICATIONS  
 PARTS LIST  TM9-2330-271-14  
 TECHNICAL MANUAL  TM9-2330-271-14  
 LUBRICATION CHART  TM9-2330-271-14

DELIVERY DATE  INSPECTED

WEIGHT AND DIMENSION DATA  


WEIGHTS EMPTY CROSS COUNTRY HIGHWAY  
 PAYLOAD   
 ON WHEELS  9234  
 ON KING PIN  4015  
 TOTAL  13,249

SHIPPING CUBAGE 3660 CU FT

TA 096504

Figure 74. Name and data plate.

## SECTION II

**TM 9-2330-271-14&P**

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
74	1	PAOZZ	5305-00-432-4164	96906	MS51861-25	SCREW, TAPPING.....C58, C59, 26F	EA	6
74	2	XDOZZ		40670	9048906	PLATE INDENTIFICATION..... C59	EA	1
74	3	PAOZZ	9905-01-094--9012	40670	9050906	PLATE, IDENTIFICATIO IDENTIFICATION..... C58	EA	1
74	4	PAOZZ	5304-00-432-4201	96906	MS51861-45	SCREW, TAPPING TREA THREAD FORMING ..... A13	EA	6
74	5	PAOZZ	9905-00-014-7068	19207	11592447	PLATE, IDENTIFICATIO IDENTIFICATION..... A13	EA	1
74	4	PAOZZ	9905-01-100-6247	40670	9965900	PLATE, IDENTIFICATIO IDENTIFICATON..... 26F	EA	1
<b>E-195</b>								

<p><b>SEMITRAILER VAN: MAIN FRAME</b>  <b>10 TON, 4W, XM912, NSN 2330-01-013-7764</b></p> <p>WFO BY: MILLER TRANSPORT INC          BRADENTON, FLORIDA</p> <p>VEN IDENT NO: <input type="text"/></p> <p>CONTRACT NO: DAAED7-75-C-0264</p> <p>PUBLICATION          TECHNICAL MANUAL TM9-2330-271-14</p> <p>DELIVERY DATE: <input type="text"/> INSPECTED: <input type="text"/></p> <p>SHIPPING CUBAGE 3304 CU FT</p>	<p><b>WEIGHT AND DIMENSION DATA (TRAILER EMPTY)</b></p> <table border="1"> <thead> <tr> <th>WEIGHTS</th> <th>EMPTY</th> <th>LOADED</th> <th>SPEEDS</th> </tr> </thead> <tbody> <tr> <td>WHEELS</td> <td>10,280</td> <td></td> <td>HIGHWAY 50 MPH</td> </tr> <tr> <td>KING PIN</td> <td>5,100</td> <td></td> <td>IMPROVED GRAVEL 25 MPH</td> </tr> <tr> <td>TOTAL</td> <td>15,380</td> <td></td> <td>CROSS COUNTRY 15 MPH</td> </tr> </tbody> </table>	WEIGHTS	EMPTY	LOADED	SPEEDS	WHEELS	10,280		HIGHWAY 50 MPH	KING PIN	5,100		IMPROVED GRAVEL 25 MPH	TOTAL	15,380		CROSS COUNTRY 15 MPH				
WEIGHTS	EMPTY	LOADED	SPEEDS																		
WHEELS	10,280		HIGHWAY 50 MPH																		
KING PIN	5,100		IMPROVED GRAVEL 25 MPH																		
TOTAL	15,380		CROSS COUNTRY 15 MPH																		
<p><b>SEMITRAILER VAN: MASS STORAGE</b>  <b>10 TON, 4W, XM913, NSN 2330-01-010-4954</b></p> <p>WFO BY: MILLER TRANSPORT INC          BRADENTON, FLORIDA</p> <p>VEN IDENT NO: <input type="text"/></p> <p>CONTRACT NO: DAAED7-75-C-0264</p> <p>PUBLICATION          TECHNICAL MANUAL TM9-2330-271-14</p> <p>DELIVERY DATE: <input type="text"/> INSPECTED: <input type="text"/></p> <p>SHIPPING CUBAGE 3304 CU FT</p>	<p><b>WEIGHT AND DIMENSION DATA (TRAILER EMPTY)</b></p> <table border="1"> <thead> <tr> <th>WEIGHTS</th> <th>EMPTY</th> <th>LOADED</th> <th>SPEEDS</th> </tr> </thead> <tbody> <tr> <td>WHEELS</td> <td>10,220</td> <td></td> <td>HIGHWAY 50 MPH</td> </tr> <tr> <td>KING PIN</td> <td>5,060</td> <td></td> <td>IMPROVED GRAVEL 25 MPH</td> </tr> <tr> <td>TOTAL</td> <td>15,280</td> <td></td> <td>CROSS COUNTRY 15 MPH</td> </tr> </tbody> </table>	WEIGHTS	EMPTY	LOADED	SPEEDS	WHEELS	10,220		HIGHWAY 50 MPH	KING PIN	5,060		IMPROVED GRAVEL 25 MPH	TOTAL	15,280		CROSS COUNTRY 15 MPH				
WEIGHTS	EMPTY	LOADED	SPEEDS																		
WHEELS	10,220		HIGHWAY 50 MPH																		
KING PIN	5,060		IMPROVED GRAVEL 25 MPH																		
TOTAL	15,280		CROSS COUNTRY 15 MPH																		
<p><b>SEMITRAILER, VAN SWBD, 10 TON, 4W, XM739</b>  <b>FEDERAL STOCK NO 2330-930-0024</b></p> <p>MANUFACTURED BY: MILLER TRAILERS, INC          BRADENTON, FLORIDA, U S A</p> <p>MFG SERIAL NO: <input type="text"/></p> <p>MANUFACTURER'S MODEL: XM-739</p> <p>CONTRACT NO: DA-20-113-AMG-09839 (1)</p> <p>PUBLICATIONS          PARTS LIST 2330-271-14          TECHNICAL MANUAL 2330-271-14          LUBRICATION CHART 2330-271-14</p> <p>DELIVERY DATE: <input type="text"/> INSPECTED: <input type="text"/></p>	<p><b>WEIGHT AND DIMENSION DATA</b></p> <table border="1"> <thead> <tr> <th>WEIGHTS</th> <th>EMPTY</th> <th>CROSS COUNTRY</th> <th>HIGHWAY</th> </tr> </thead> <tbody> <tr> <td>PAYLOAD</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ON WHEELS</td> <td>9,680</td> <td></td> <td></td> </tr> <tr> <td>ON KINGPIN</td> <td>4,690</td> <td></td> <td></td> </tr> <tr> <td>TOTAL</td> <td>14,370</td> <td></td> <td></td> </tr> </tbody> </table> <p>SHIPPING CUBAGE 3660 CU FT</p>	WEIGHTS	EMPTY	CROSS COUNTRY	HIGHWAY	PAYLOAD				ON WHEELS	9,680			ON KINGPIN	4,690			TOTAL	14,370		
WEIGHTS	EMPTY	CROSS COUNTRY	HIGHWAY																		
PAYLOAD																					
ON WHEELS	9,680																				
ON KINGPIN	4,690																				
TOTAL	14,370																				
<p><b>SEMITRAILER, VAN TELEPHONE, 10 TON, 4W, XM738</b>  <b>FEDERAL STOCK NO 2330-999-3893</b></p> <p>MANUFACTURED BY: MILLER TRAILERS, INC          BRADENTON, FLORIDA, U S A</p> <p>MFG SERIAL NO: <input type="text"/></p> <p>MANUFACTURER'S MODEL: XM-738</p> <p>CONTRACT NO: DA-20-113-AMG-09839 (1)</p> <p>PUBLICATIONS          PARTS LIST 2330-271-14          TECHNICAL MANUAL 2330-271-14          LUBRICATION CHART 2330-271-14</p> <p>DELIVERY DATE: <input type="text"/> INSPECTED: <input type="text"/></p>	<p><b>WEIGHT AND DIMENSION DATA</b></p> <table border="1"> <thead> <tr> <th>WEIGHTS</th> <th>EMPTY</th> <th>CROSS COUNTRY</th> <th>HIGHWAY</th> </tr> </thead> <tbody> <tr> <td>PAYLOAD</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ON WHEELS</td> <td>9,600</td> <td></td> <td></td> </tr> <tr> <td>ON KINGPIN</td> <td>4,590</td> <td></td> <td></td> </tr> <tr> <td>TOTAL</td> <td>14,190</td> <td></td> <td></td> </tr> </tbody> </table> <p>SHIPPING CUBAGE 3660 CU FT</p>	WEIGHTS	EMPTY	CROSS COUNTRY	HIGHWAY	PAYLOAD				ON WHEELS	9,600			ON KINGPIN	4,590			TOTAL	14,190		
WEIGHTS	EMPTY	CROSS COUNTRY	HIGHWAY																		
PAYLOAD																					
ON WHEELS	9,600																				
ON KINGPIN	4,590																				
TOTAL	14,190																				

TA 096505

Figure 75. Name and data plate.

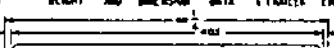
## SECTION II

**TM 9-2330-271-14&P**

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
75	1	PAOZZ	5305-00-432-4201	96906	MS51861-45	SCREW, TAPPING, THREA.....C61,C62	EA	6
75	2	PAOZZ	9905-01-032-7307	19207	11684468	PLATE IDENTIFICATIO..... C61	EA	1
75	3	PAOZZ	9905-01-032-7308	19207	11684469	PLATE IDENTIFICATIO..... C62	EA	1
75	4	PAOZZ	5305-00-432-4164	96906	MS51861-25	SCREW, TAPPING, THREA.....A11,140	EA	6
75	5	PAOZZ	9905-00-927-9391	40670	9772910	PLATE, IDENTIFICATIO IDENTIFICATION..... A11	EA	1
75	6	PAOZZ	9905-00-927-9392	40670	9772915	PLATE IDENTIFICATIO IDENTIFICATION..... 140	EA	1
E-197								

<b>SEMITRAILER VAN: DIGITAL TERMINAL 1.</b> <b>10 TON, 4 W, XM847 FSN 2330-431-3420</b>		
MFD BY <b>MILLER TRAILERS, INC.</b> <b>BRADENTON, FLORIDA</b>	TRAILER EMPTY	
REG. WGT. NO. <b>DAAE07-TE-C-0002</b>	WEIGHTS WHEELS <b>9,180</b> RING PIN <b>4,650</b> TOTAL <b>13,830</b>	
CONTRACT NO. <b>DAAE07-TE-C-0002</b>	LOADED PICKUP <b>50 MPH</b> IMPORTED GRAVEL <b>25 MPH</b> CROSS COUNTRY <b>15 MPH</b>	

<b>SEMITRAILER VAN: DIGITAL TERMINAL 2,</b> <b>10 TON, 4 W. XM848 FSN 2330-431-3429</b>																		
MFD BY: <b>MILLER TRAILERS, INC.</b> <b>BRADENTON, FLORIDA</b>																		
VEH IDENT NO: <span style="border: 1px solid black; display: inline-block; width: 150px; height: 1.2em; vertical-align: middle;"></span>																		
CONTRACT NO: <b>DAAE07-72-C-0002</b>																		
PUBLICATION <b>TECHNICAL MANUAL TMS-2380-271-14</b>																		
DELIVERY DATE: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 1.2em; vertical-align: middle;"></span>	INSPECTED: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 1.2em; vertical-align: middle;"></span>																	
SHIPPING CUBAGE 3022 CU FT		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">WEIGHTS</th> <th style="width: 20%;">EMPTY</th> <th style="width: 20%;">LOADED</th> <th style="width: 20%;">SPEEDS</th> </tr> </thead> <tbody> <tr> <td>WHEELS</td> <td style="text-align: center;">9,100</td> <td></td> <td>HIGHWAY 50 MPH</td> </tr> <tr> <td>HING PIN</td> <td style="text-align: center;">4,610</td> <td></td> <td>IMPROVED GRAVEL 25 MPH</td> </tr> <tr> <td>TOTAL</td> <td style="text-align: center;">13,710</td> <td></td> <td>CROSS COUNTRY 15 MPH</td> </tr> </tbody> </table>	WEIGHTS	EMPTY	LOADED	SPEEDS	WHEELS	9,100		HIGHWAY 50 MPH	HING PIN	4,610		IMPROVED GRAVEL 25 MPH	TOTAL	13,710		CROSS COUNTRY 15 MPH
WEIGHTS	EMPTY	LOADED	SPEEDS															
WHEELS	9,100		HIGHWAY 50 MPH															
HING PIN	4,610		IMPROVED GRAVEL 25 MPH															
TOTAL	13,710		CROSS COUNTRY 15 MPH															

<b>SEMITRAILER VAN:</b> <b>10 TON, 4W, XM849</b> BFD BY: <b>WILLER TRAILERS, INC</b> <b>BRADENTON, FLORIDA</b> VIN IDENT NO: <span style="border: 1px solid black; display: inline-block; width: 150px; height: 1.2em; vertical-align: middle;"></span> CONTRACT NO: <b>0AAE07-72-C-0002</b>	<b>SECURE VOICE</b> <b>FSN 2330-431-3433</b> <div style="text-align: center; margin-top: 10px;">  </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 33%;">WEIGHTS</th> <th style="width: 33%;">EMPTY</th> <th style="width: 33%;">LOADED</th> <th style="width: 33%;">SPEEDS</th> </tr> </thead> <tbody> <tr> <td>WHEELS</td> <td><b>5,130</b></td> <td><span style="border: 1px solid black; display: inline-block; width: 80px; height: 1.2em; vertical-align: middle;"></span></td> <td>NIGHTWAY 50 MPH</td> </tr> <tr> <td>RAMP PM</td> <td><b>4,730</b></td> <td><span style="border: 1px solid black; display: inline-block; width: 80px; height: 1.2em; vertical-align: middle;"></span></td> <td>UPHOLDY GRADE 25 MPH</td> </tr> <tr> <td>TCIN</td> <td><b>1,520</b></td> <td><span style="border: 1px solid black; display: inline-block; width: 80px; height: 1.2em; vertical-align: middle;"></span></td> <td>CROSS COUNTRY 15 MPH</td> </tr> </tbody> </table>	WEIGHTS	EMPTY	LOADED	SPEEDS	WHEELS	<b>5,130</b>	<span style="border: 1px solid black; display: inline-block; width: 80px; height: 1.2em; vertical-align: middle;"></span>	NIGHTWAY 50 MPH	RAMP PM	<b>4,730</b>	<span style="border: 1px solid black; display: inline-block; width: 80px; height: 1.2em; vertical-align: middle;"></span>	UPHOLDY GRADE 25 MPH	TCIN	<b>1,520</b>	<span style="border: 1px solid black; display: inline-block; width: 80px; height: 1.2em; vertical-align: middle;"></span>	CROSS COUNTRY 15 MPH
WEIGHTS	EMPTY	LOADED	SPEEDS														
WHEELS	<b>5,130</b>	<span style="border: 1px solid black; display: inline-block; width: 80px; height: 1.2em; vertical-align: middle;"></span>	NIGHTWAY 50 MPH														
RAMP PM	<b>4,730</b>	<span style="border: 1px solid black; display: inline-block; width: 80px; height: 1.2em; vertical-align: middle;"></span>	UPHOLDY GRADE 25 MPH														
TCIN	<b>1,520</b>	<span style="border: 1px solid black; display: inline-block; width: 80px; height: 1.2em; vertical-align: middle;"></span>	CROSS COUNTRY 15 MPH														

TECHNICAL MANUAL
TWS-2330-271-04

DELIVERY DATE

INSPECTED

SHIPPING CARGO 1072 CB FT

<b>SEMITRAILER VAN: VOICE SWITCH</b> <b>10 TON, 4W, XM850 FSN 2330-431-3441</b>	
MFG BY <span style="border: 1px solid black; padding: 2px;">MILLER TRAILERS, INC BRADENTON, FLORIDA</span>	
VIN IDENT NO <span style="border: 1px solid black; display: inline-block; width: 150px; height: 1.2em; vertical-align: middle;"></span>	
CONTRACT NO <span style="border: 1px solid black; display: inline-block; width: 150px; height: 1.2em; vertical-align: middle;">DAAE07-72-C-0002</span>	
PUBLICATION NO TECHNICAL MANUAL TWS-2330-277-14	
DELIVERY DATE <span style="border: 1px solid black; display: inline-block; width: 80px; height: 1.2em; vertical-align: middle;"></span>	INSPECTED <span style="border: 1px solid black; display: inline-block; width: 80px; height: 1.2em; vertical-align: middle;"></span>
SHIPPING CUBAGE 3660 CB FT	

TA 032525

*Figure 76. Name and data plate.*  
**E-198**

## SECTION II

**TM 9-2330-271-14&P**

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
76	1	PAOZZ	5305-00-432-4201	96906	MS51861-45	SCREW, TAPPING, THREA..... C16,C17,C18,C19	EA	6
76	2	PAOZZ	9905-01-098-2009	19207	11681644	PLATE, IDENTIFICATI IDENTIFICATION ..... C16	EA	1
76	3	PAOZZ	9905-01-098-2010	19207	11681645	PLATE, IDENTIFICATI IDENTIFICATION ..... C17	EA	1
76	4	XDOZZ		19207	11681646	PLATE NAME AND DATA ..... C18	EA	1
76	5	PAOZZ	9905-01-098-2013	19207	11681647	PLATE, IDENTIFICATI IDENTIFICATION ..... C19	EA	1
E-199								



**SEMITRAILER, VAN: ON-LINE, 10 TON, 4W,  
XM 844 FSN 2330-152-1817**

INFO BY: MILLER TRAILERS INC.  
BRADENTON, FLORIDA

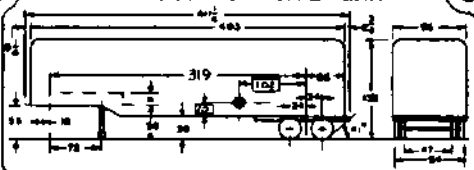
VEH WEIGHT NO. \_\_\_\_\_  
CONTRACT NO. DA4E07-71-C-0061

PUBLICATION  
TECHNICAL MANUAL TMS-2330-271-14

DELIVERY DATE \_\_\_\_\_ INSPECTED \_\_\_\_\_

SHIPPING CUBAGE 3022 CU FT

**WEIGHT AND DIMENSION DATA (TRAILER EMPTY)**



WEIGHTS	EMPTY	LOADED	SPEEDS
WHEELS	9,000		HIGHWAY 50 MPH
RING PIN	4,230		IMPROVED GRAVEL 25 MPH
TOTAL	13,230		CROSS COUNTRY 15 MPH

**SEMITRAILER, VAN: OFF-LINE, 10 TON, 4W,  
XM 845 FSN 2330-421-7286**

INFO BY: MILLER TRAILERS INC.  
BRADENTON, FLORIDA

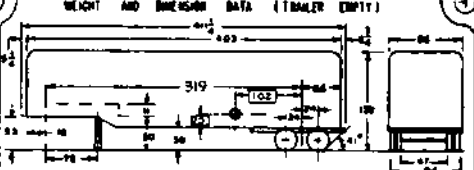
VEH WEIGHT NO. \_\_\_\_\_  
CONTRACT NO. DA4E07-71-C-0061

PUBLICATION  
TECHNICAL MANUAL TMS-2330-271-14

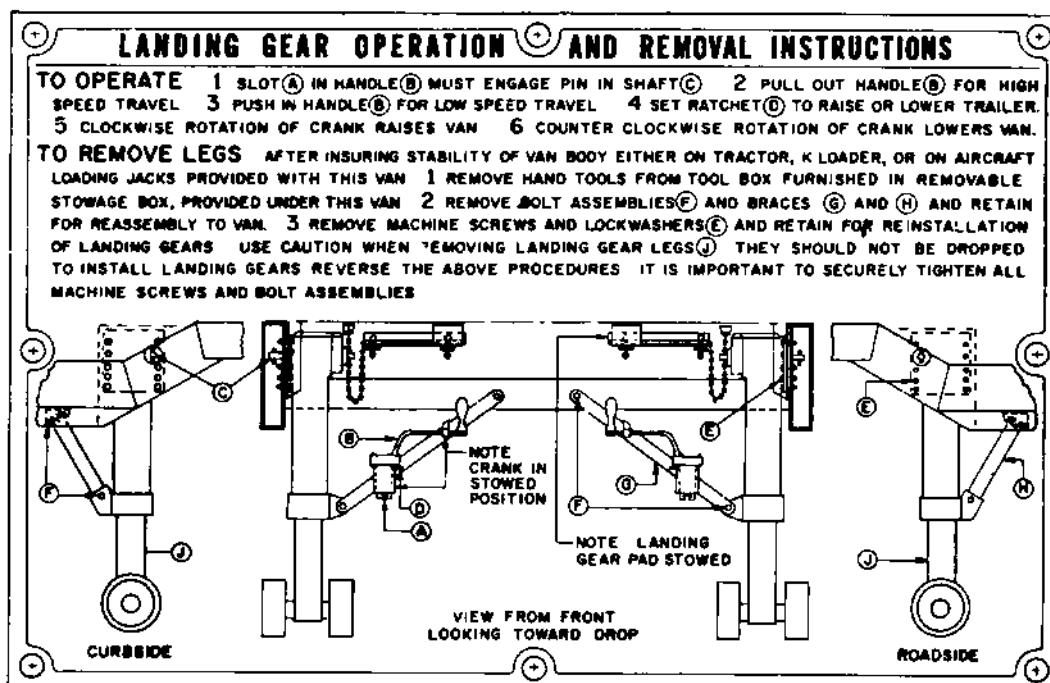
DELIVERY DATE \_\_\_\_\_ INSPECTED \_\_\_\_\_

SHIPPING CUBAGE 3022 CU FT

**WEIGHT AND DIMENSION DATA (TRAILER EMPTY)**



WEIGHTS	EMPTY	LOADED	SPEEDS
WHEELS	9,000		HIGHWAY 50 MPH
RING PIN	4,230		IMPROVED GRAVEL 25 MPH
TOTAL	13,230		CROSS COUNTRY 15 MPH



TA 032520

Figure 77. Name and data plate.

## SECTION II

**TM 9-2330-271-14&P**

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
77	1	PAOZZ	5305-00-432-4201	96906	MS51861-45	SCREW, TAPPING, THREA.....C14,C15	EA	12
77	2	PAOZZ	9905-01-098-2014	19207	11681241	PLATE, IDENTIFICATI IDENTIFICATION ..... C14	EA	1
77	3	PAOZZ	9905-01-098-2015	19207	11681242	PLATE, IDENTIFICATI IDENTIFICATION ..... C15	EA	1
77	4	PAOZZ	9905-01-054-0272	19207	11646331	PLATE, INSTRUCTION .....C14,C15	EA	1
E-201								

1

2

3

4

**SEMI TLR VAN PETRO LAB IOT 4-WHL XM822**  
**FEDERAL STOCK NO.** 2330-122-4966  
**MANUFACTURED BY** \_\_\_\_\_  
**MFG SERIAL NO** \_\_\_\_\_  
**MANUFACTURER'S MODEL** \_\_\_\_\_  
**CONTRACT NO.** \_\_\_\_\_

**PUBLICATIONS**  
**PARTS LIST** TM9 2330-271-14  
**TECHNICAL MANUAL** TM9 2330-271-14  
**LUBRICATION CHART** TM9 2330-271-14

**DELIVERY DATE** \_\_\_\_\_ **INSPECTED** \_\_\_\_\_

**WEIGHT AND DIMENSION DATA**

WEIGHTS	EMPTY	CROSS COUNTRY	HIGHWAY
PAYLOAD		10,500	10,500
ON WHEELS	10,500	16,870	16,870
ON KING PIN	5,192	9,430	9,430
TOTAL	15,692	26,300	26,300

**SHIPPING CUBAGE** 2967 CU FT

**SEMITRAILER VAN 10 TON 4W XM680E1 FSN 2330-884-1749**  
**MFG BY** \_\_\_\_\_  
**VEH IDENT NO** SEE NOTE A  
**CONTRACT NO** \_\_\_\_\_

**PUBLICATION**  
**TECHNICAL MANUAL** TM9-2330-271-14

**DELIVERY DATE** \_\_\_\_\_ **INSPECTED** \_\_\_\_\_

**WEIGHT AND DIMENSION DATA (TRAILER EMPTY)**

WEIGHTS	EMPTY	LOADED	SPEEDS
WHEELS	9200		HIGHWAY 50 MPH
KING PIN	5520		IMPROVED GRAVEL 25 MPH
TOTAL	14720		GROSS COUNTRY 15 MPH

**SHIPPING CUBAGE** 2757 CU FT

**THIS SEMITRAILER HAS WATER FORDING CAPABILITY TO A MAXIMUM HEIGHT OF 46 INCHES**

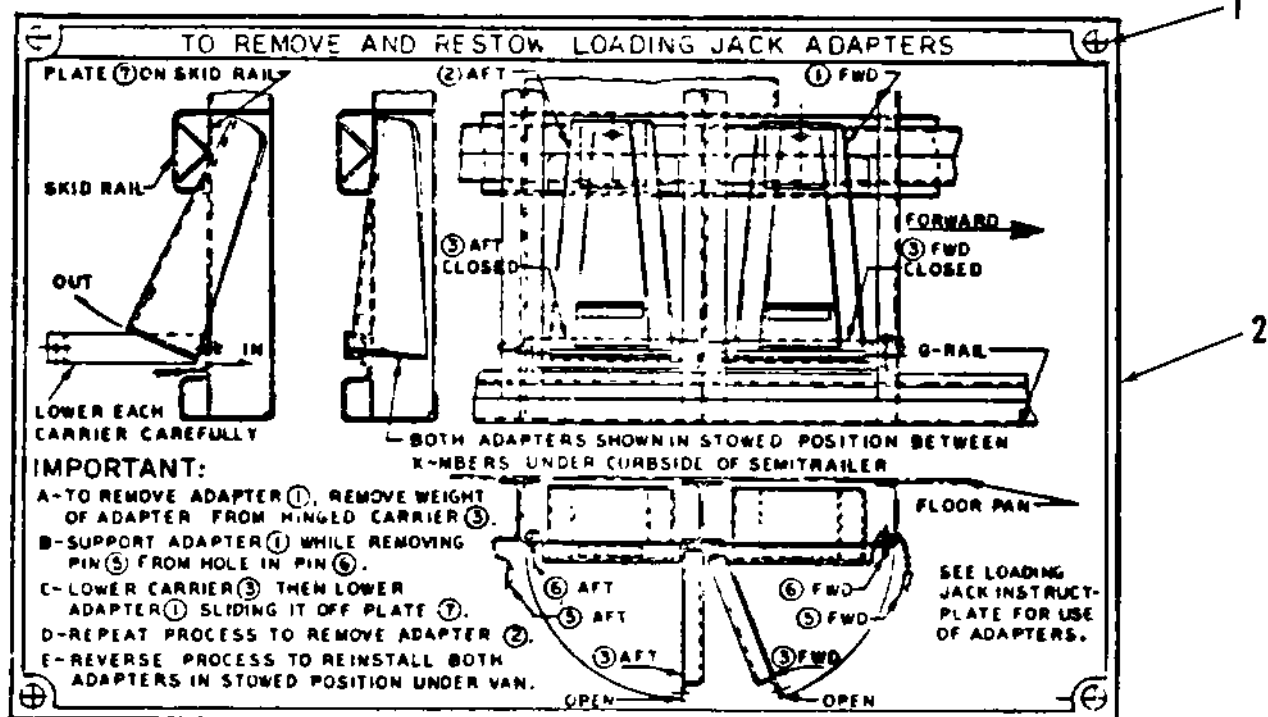
TA 096508

Figure 78. Name and data plate.

## SECTION II

**TM 9-2330-271-14&P**

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
78	1	XDOZZ		19207	11683220	PLATE IDENTIFICATIO..... C13	EA	1
78	2	PAOZZ	5305-00-432-4164	96906	MS51861-25	SCREW TAPPING THREA THREAD FORMING.. C13	EA	8
78	2	PAOZZ	5305-00-432-4164	96906	MS51861-25	SCREW TAPPING THREA..... A14	EA	6
78	3	XDOZZ		19207	11646236	PLATE IDENTIFICATION ..... A14	EA	1
78	4	POAZZ	9905-00-001-6351	19207	11638000	PLATE INSTRUCTIONS FORDING ..... C13	EA	1
<b>E-203</b>								




**EMERGENCY EXIT**

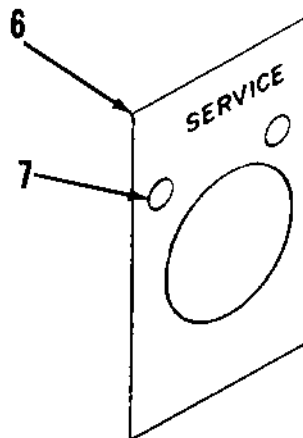
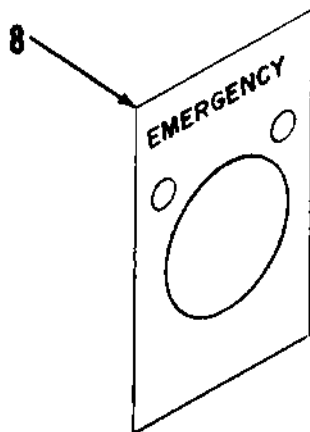
**TO OPEN WHEN LOCKED IN  
PUSH HANDLE IN &  
TURN TO UNLOCK**

**TWO SPEED LANDING GEAR & LEVELING JACK**

**OPERATING INSTRUCTIONS**

- 1-SLOT IN HANDLE MUST ENGAGE PIN IN SHAFT
- 2-PULL OUT HANDLE FOR LOW SPEED TRAVEL
- 3-PUSH IN HANDLE FOR HIGH SPEED TRAVEL
- 4-TURN CRANK AS SHOWN TO LEVEL TRAILER
- 5-SET RATCHET ON CRANK HEAD TO OPERATE IN DESIRED DIRECTION

**LOWER**  **RAISE**



TA 096661

Figure 79. Instruction plate.

## SECTION II

TM 9-2330-271-14&P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
79	1	PAOZZ	5305-00-432-4201	96906	MS51861-45	SCREW, TAPPING, THREAC16,C17,C18,C19,C61,C62	EA	8
79	1	PAOZZ	5305-00-432-4201	96906	MS51861-45	SCREW, TAPPING THREA..... C14,C15	EA	4
79	2	XDOZZ		19207	11681464	PLATE, INSTRUCTION ... C16,C17,C18,C19,C61,C62	EA	1
79	3	PAOZZ	9905-00-897-6055	19207	10882193	PLATE, INSTRUCTIONA10,A11,C13,C58,C59,140,26F	EA	2
79	3	PAOZZ	9905-00-897-6055	19207	10882193	PLATE, INSTRUCTION ..... C14,C15	EA	1
79	4	PAOZZ	9905-01-043-8002	19207	11638183	PLATE .....A12,A13,C14,C15,C17,C19,C61,C62	EA	2
79	4	PAOZZ	9905-01-043-8002	19207	11638183	PLATE IDENTIFICATIO IDENTIFICATIONC13,C16,C18	EA	3
79	5	PAOZZ	9905-01-043-8003	19207	11638182	PLATE, INSTRUCTIONA12,A13,C14,C15,C17,C19,C61 ..... C62	EA	2
79	5	PAOZZ	9905-01-043-8003	19207	11638182	PLATE, INSTRUCTION ..... C13,C16,C18	EA	3
79	6	PAOZZ	9905-00-999-7369	96906	MS53007-2	PLATE .....	EA	1
79	7	PAOZZ	5320-00-982-3815	96906	MS24662-153	RIVET, BLIND.....	EA	4
79	8	PAOZZ	9905-00-999-7370	96906	MS53007-1	PLATE, IDENTIFICATIO.....	EA	1
E-205								

## LANDING GEAR OPERATION AND SWING-UP INSTRUCTIONS

**TO OPERATE** STARTING WITH LANDING GEARS IN NORMAL POSITIONS.

- 1 UNFASTEN CHAIN AND SNAP H. REMOVE CRANK L FROM STOWAGE SOCKET M.
- 2 PLACE SLOT IN CRANK L TO ENGAGE PIN IN SHAFT W.
- 3 PULL OUT SHAFT W FOR HIGH SPEED TRAVEL.
- 4 PUSH IN SHAFT W FOR LOW SPEED TRAVEL.
- 5 SET RATCHET ON CRANK L TO RAISE OR LOWER TRAILER. CLOCKWISE ROTATION RAISES VAN. COUNTER CLOCKWISE LOWERS VAN.

**TO SWING-UP** AFTER INSURING STABILITY OF VAN BODY ON EITHER A LOADER OR AIRCRAFT. BE SURE ALL TOGGLE PINS HAVE BEEN LUBRICATED AND ARE OPERABLE AND REMOVABLE.

- 1 USING CRANK L, RETRACT LEG X ABOUT TWELVE INCHES. THEN REPLACE CRANK L IN STOWED POSITION ON BRACE F. REFASTEN CHAIN AND SNAP H.
- 2 REMOVE PINS A, B AND C. USE ACCESS HOLES D TO UNLATCH PIN C FROM MOUNT S. THEN REMOVE BRACE ASSEMBLY F.
- 3 SWING LEG ASSEMBLY FORWARD TO REMOVE BRACE E FROM BRACKET G. UNFASTEN CHAIN AND SNAP K.

- 4 PUSH BRACE E UPWARD AGAINST UPPER LEG Y. HOLD IN PLACE WITH REFASTENED CHAIN AND SNAP K TO LOOP U.
- 5 PICK UP BRACE F WITH CRANK L STOWED ON IT. TURN BRACE END FOR END (SEE PLAN VIEW). AFT OR END Z IS NOW AT FORWARD END NEAR PIN B. PLACE END HOLE (WAS FORWARD) AROUND PIN ON BRACKET P.
- 6 MANUALLY, WITH CARE, LIFT EACH LEG ASSEMBLY TO HORIZONTAL POSITION. ATTACH CHAIN AND SNAP J. TO HOLD EACH LEG USING DRIFT PIN PROVIDED. ALIGN HOLE IN END Z OF BRACE F ON TOP OF, NOT IN BETWEEN, BRACKETS A- ON LEG ASSEMBLY Y.
- 7 THEN INSERT PIN B TO SECURE EACH LANDING GEAR AND BRACES IN SWING-UP POSITION.
- 8 TO REINSTALL IN NORMAL POSITION REVERSE THE ABOVE PROCEDURES.

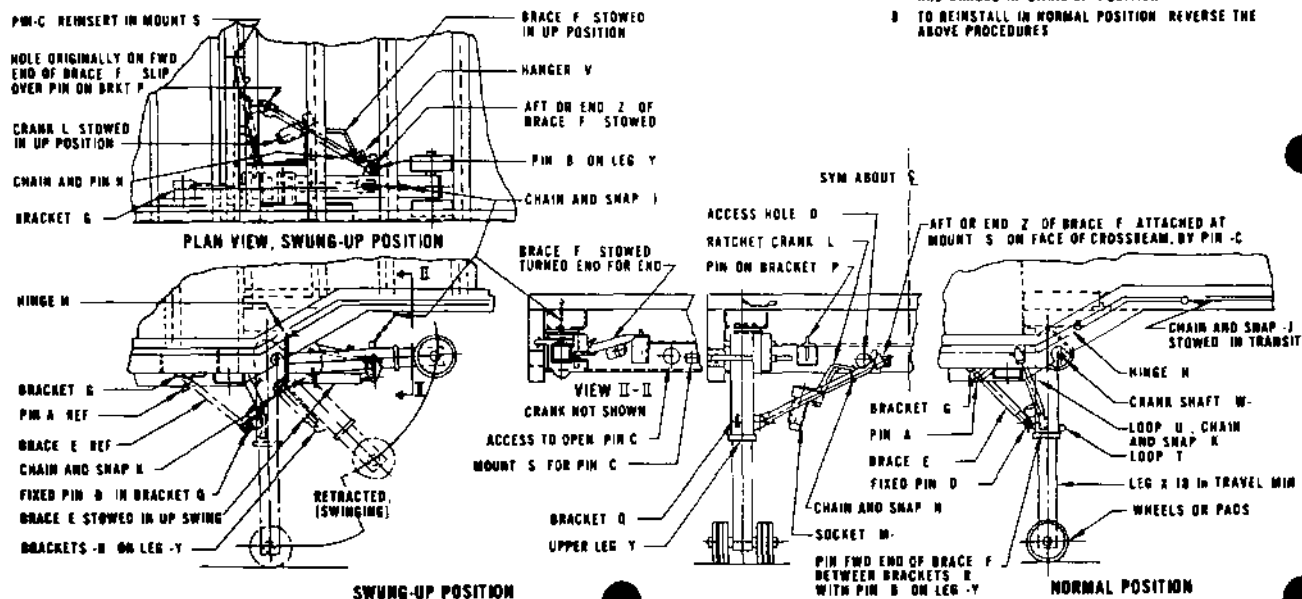


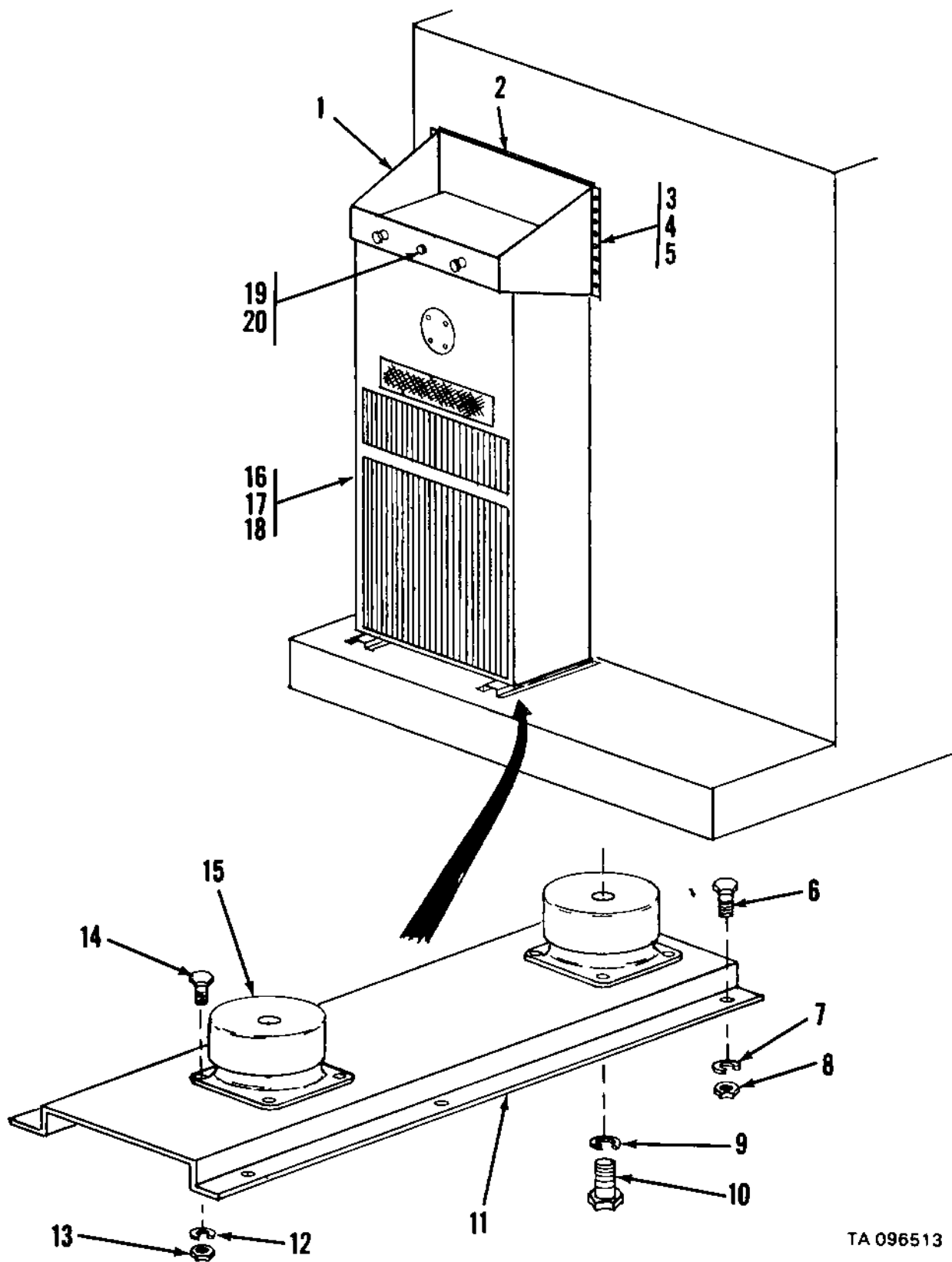
Figure 80. Instruction plate.

## SECTION II

**TM 9-2330-271-14&P**

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
80 80	1 2	XDOZZ PAOZZ	5305-00-432-4201	19207 96906	11681453 MS51861-45  <b>E-207</b>	PLATE, INSTRUCTION ... C16,C17,C18,C19,C61,C62 SCREW, TAPPING, THREAC16,C17,C18,C19,C61,C62	EA EA	2 16





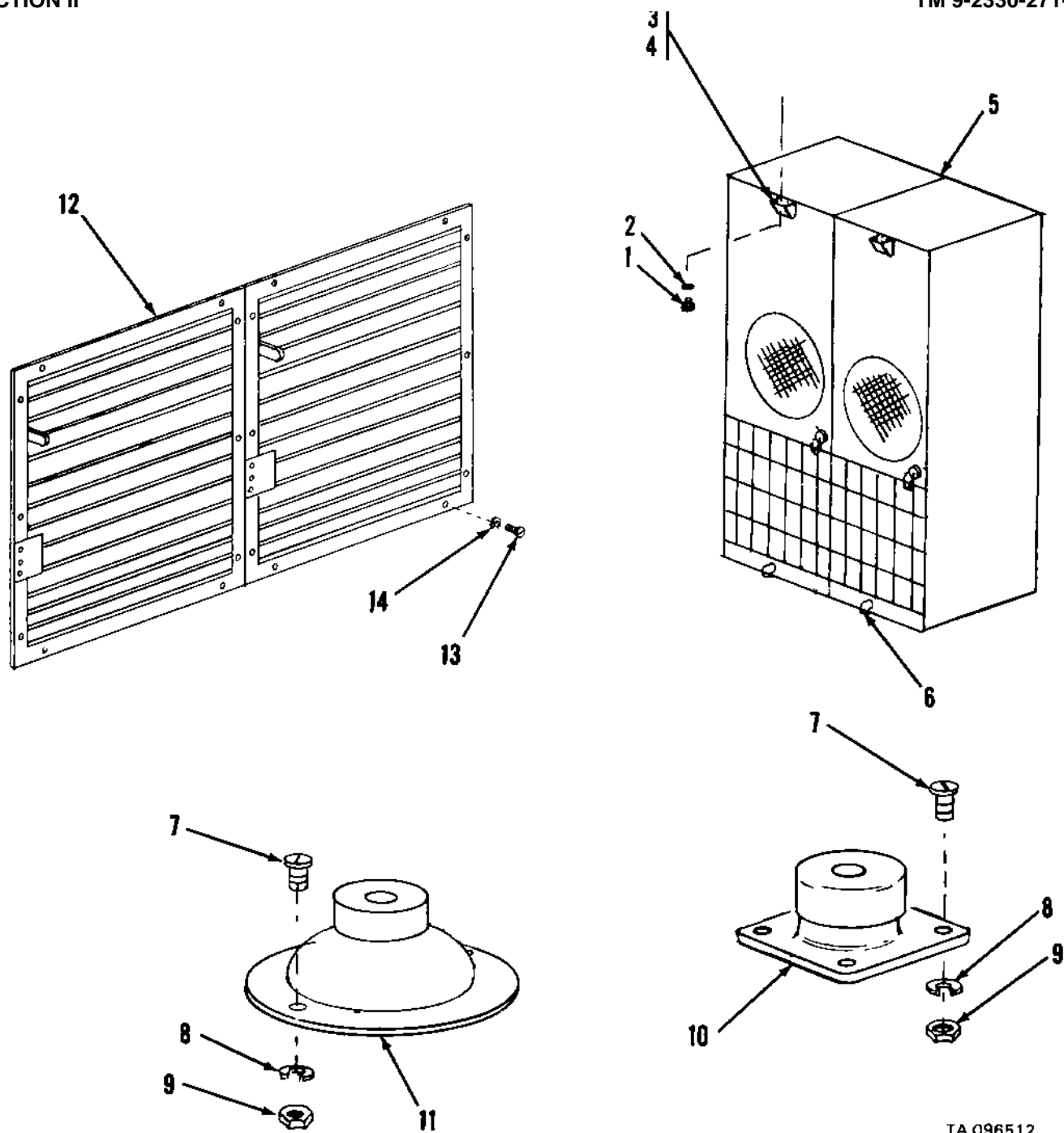
TA 096513

Figure 81. Air conditioner, XM654.  
E-208

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 52 AIR CONDITIONING COMPONENTS GROUP 5200 GAS COMPRESSOR ASSEMBLY		
81	1	XBOZZ		40670	3234960	HOOD ASSEMBLY ..... A10	EA	2
81	2	PAOZZ	9320-00-897-5884	19207	10906776	RUBBER STRIP ..... A10	EA	6
81	3	PAOZZ	5305-00-071-2241	96906	MS90725-10	SCREW, CAP, HEXAGON H ..... A10	EA	32
81	4	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER LOCK ..... A10	EA	32
81	5	PAOZZ	5320-01-037-6819	19207	10882479-1	NUT, BLIND RIVET ..... A10	EA	32
81	6	PAOZZ	5305-00-042-6417	96906	MS90725-113	SCREW, CAP, HEXAGON H ..... A10	EA	24
81	7	PAOZZ	5310-00-584-5272	96906	MS35338-48	WASHER LOCK ..... A10	EA	24
81	8	PAOZZ	5310-00-768-0318	96906	MS51967-14	NUT PLAIN HEXAGON ..... A10	EA	24
81	9	PAOZZ	5310-00-584-5272	96906	MS35338-48	WASHER LOCK ..... A10	EA	8
81	10	PAOZZ	5305-00-964-0589	96906	MS51095-416	SCREW, CAP, HEXAGON H ..... A10	EA	8
81	11	XBOZZ		40670	3670923	CHANNEL ASSEMBLY ..... A10	EA	4
81	12	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER LOCK ..... A10	EA	8
81	13	PAOZZ	5310-00-761-6882	96906	MS51967-2	NUT PLAIN HEXAGON ... A09,A10,C15,C16,C17,C18 ..... C19,C61,C62	EA	8
81	14	PAOZZ	5305-00-068-0502	96906	MS90725-6	SCREW, CAP, HEXAGON H ..... A10	EA	8
81	15	PAOZZ	5340-00-664-7442	81860	C2090-6	MOUNT RESILIENT ..... A10	EA	2
81	16	XDOZZ		60532	MAC6V60	AIR CONDITION ..... A10	EA	2
81	17	PAOZZ	5330-00-918-4183	40670	3234416	RUBBER STRIP ..... A10	EA	1
81	18	PAOZZ	5340-01-105-7137	40670	3234427	FRAME, AIR INLET-OUT ..... A10	EA	2
81	19	PAOZZ	5306-00-226-4831	96906	MS90728-38	BOLT, MACHINE ..... A10	EA	2
81	20	PAOZZ	5310-00-407-9566	96906	MS35338-45	WASHER LOCK ..... A10	EA	2



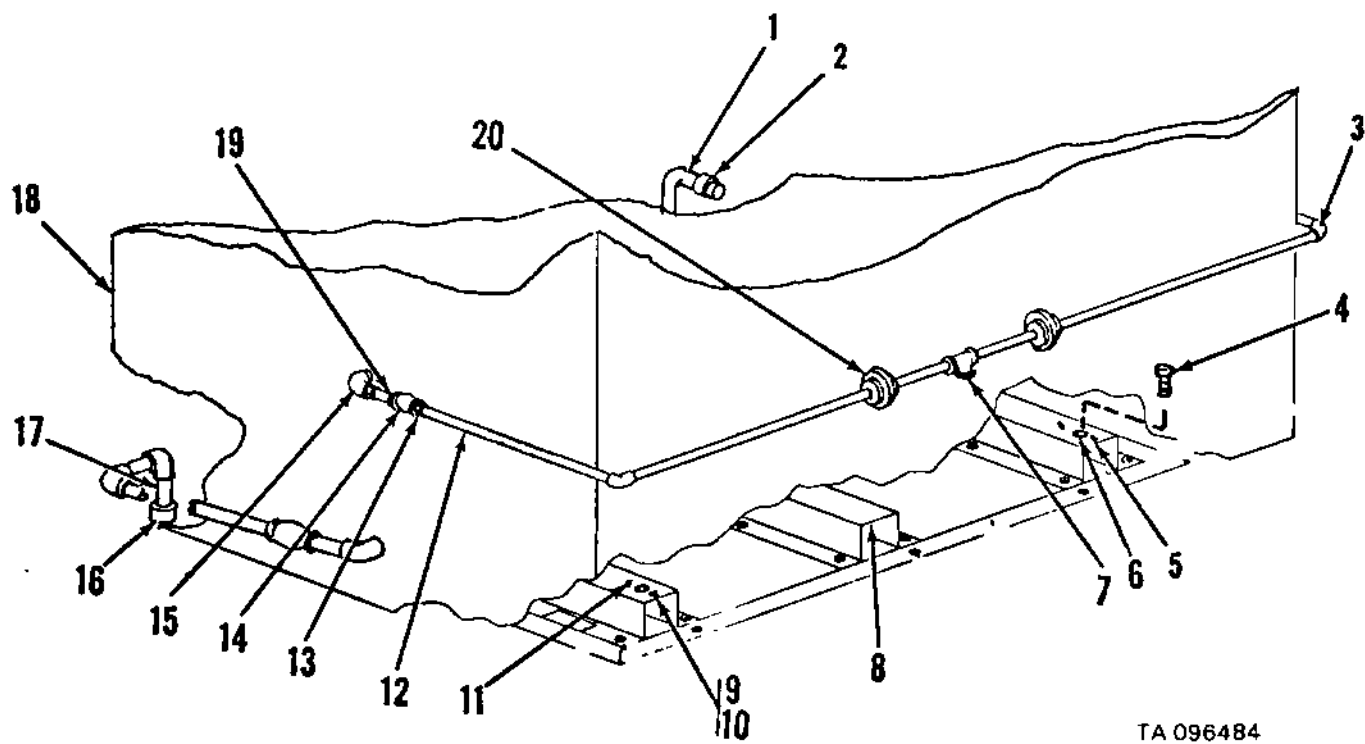
TA 096512

*Figure 82. Air conditioner, XM680, XM680E1.*

## SECTION II

**TM 9-2330-271-14&P**

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
82	1	PAOZZ	5305-00-069-5576	96906	MS90725-92	SCREW, CAP, HEXAGON H..... A09,A14	EA	16
82	2	PAOZZ	5310-00-209-0965	96906	MS35338-47	WASHER, LOCK ..... A09,A14	EA	16
82	3	XDOZZ		40670	3486895	STUD, ASSEMBLY..... A09,A14	EA	4
82	4	XBOZZ		81349	3486898	ANGLE, MOUNTING ..... A09,A14	EA	4
82	5	XDOZZ		40670	MILA52767	AIR CONDITIONER..... A09,A14	EA	4
82	6	XDOZZ		40670	3486897-1	DRAIN ASSEMBLY LH..... A09,A14	EA	4
82	6	XDOZZ		96906	3486897-2	DRAIN ASSEMBLY RH ..... A09,A14	EA	4
82	7	PAOZZ		96906	MS90725-12	SCREW, CAP, HEXAGON ..... A09,A14	EA	64
82	8	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER LOCK ..... A09,A10	EA	64
82	9	PAOZZ	5310-00-761-6882	96906	MS1967-2	NUT,PLAIN,HEXAGONA09,A14,C15,C16,C17,C18,C19 ..... C61,C62	EA	64
82	10	PAOZZ	5310-00-514-1330	81860	C2060-6	MOUNT, RESILIENT ..... A09,	EA	16
82	11	PAOZZ	5340-01-098-6797	40670	9444905-1	MOUNT, RESILIENT REAR ..... A14	EA	8
82	11	PAOZZ	5340-01-098-6798	40670	9444905-3	MOUNT, RESILIENT ..... A09,A14	EA	8
82	12	XDOZZ		40670	3486935	GRILLE ASSEMBLY ..... A09,A14	EA	2
82	13	PAOZZ	5305-00-855-0964	96906	MS24629-48	SCREW, TAPPING, THREA THREAD FORMINGA09,A14	EA	20
82	14	PAOZZ	5310-00-045-3296	96906	MS35338-43	WASHER, LOCK ..... A09,A14	EA	20
<b>E-211</b>								



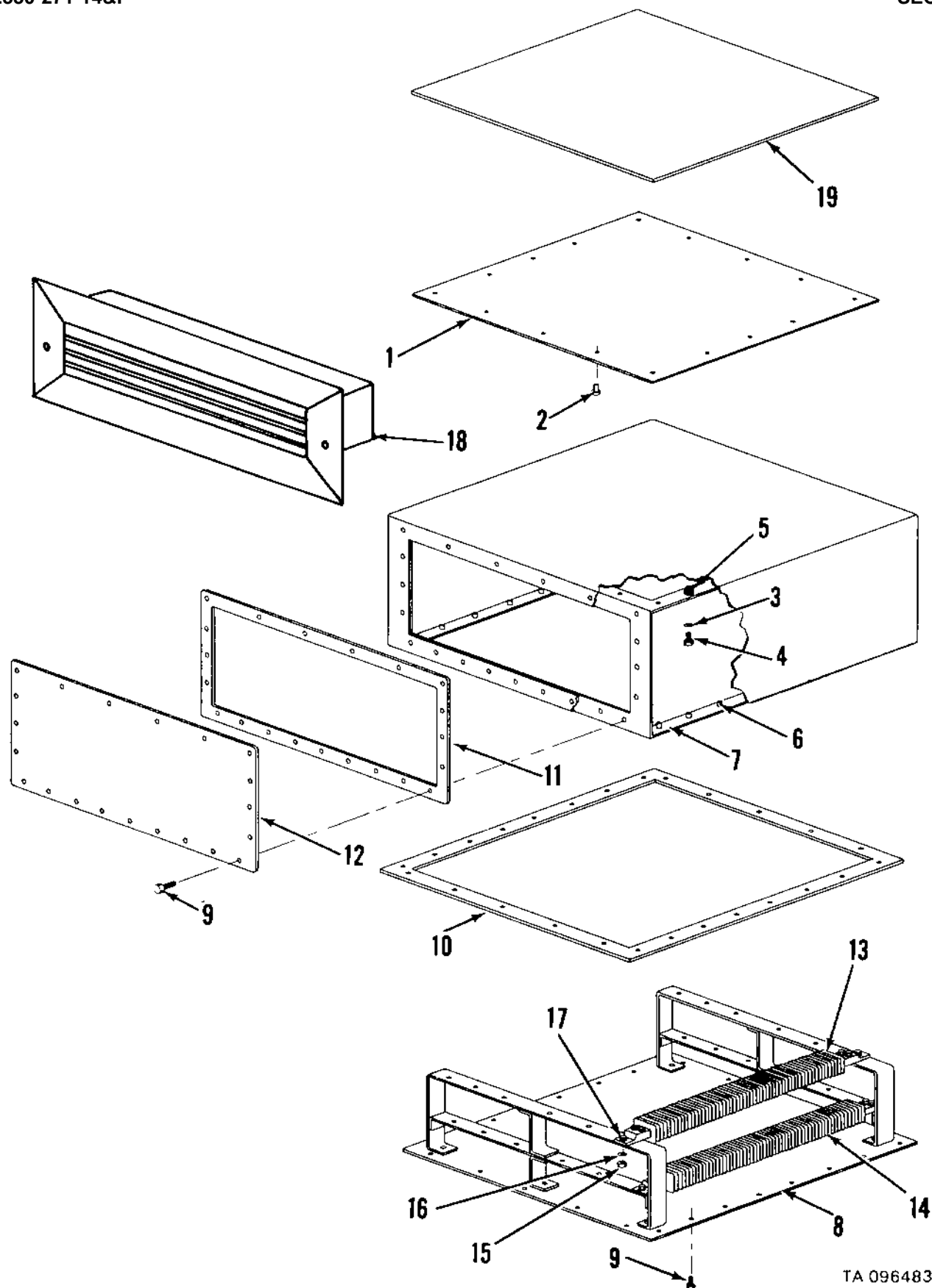
TA 096484

Figure 83. Air conditioner, XM822.

## SECTION II

TM 9-2330-271-14&P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
83	1	PAOZZ	4720-00-432-1341	19207	11683235	HOSE NONMETALLIC RUBBER 1 INCH I D x 36 INCHES LONG AIR CONDITIONING ..... C13	EA	3
83	2	PAOZZ	4730-00-908-3194	96906	MS35842-11	CLAMP HOSE ..... C13	EA	1
83	3	PAOZZ	4730-00-254-6450	96906	MS35917-5	ELBOW TUBE ..... C13	EA	2
83	4	PAOZZ	5305-00-226-7768	96906	MS80726-115	SCREW, CAP, HEXAGON H..... C13	EA	4
83	5	XBOZZ		19207	11682999-1	SUPPORT MOUNTING RH..... C13	EA	1
83	6	PAOZZ	5310-01-102-9862	19207	10907011	NUT, ASSEMBLY RETAIN ..... C13	EA	4
83	7	XDOZZ		30327	1013	TEE, PIPE ..... C13	EA	1
83	8	XBOZZ		19207	11683001	SUPPORT CENTER..... C13	EA	1
83	9	XBOZZ		19207	11682999-2	SUPPORT MOUNTING LH..... C13	EA	1
83	10	PAOZZ	5320-00-637-6072	29666	BL-10-8	RIVET BLIND..... C13	EA	36
83	11	PAOZZ	5320-00-234-2597	96906	MS20427-8C12	RIVET SOLID ..... C13	EA	8
83	12	PAOZZ	4710-00-277-5529	19207	86689210	TUBE METALLIC..... C13	EA	10
83	13	PAOZZ	4730-00-266-1835	17773	11242067-7	ADAPTER STRAIGHT PI ..... C13	EA	8
83	14	PAOZZ	4820-00-432-1336	19207	11637879	VALVE ASSEMBLY ..... C13	EA	2
83	15	PAOZZ	4730-01-029-2738	41947	A-11442	ELBOW PIPE TO TUBE ..... C13	EA	2
83	16	PAOZZ	4730-00-278-2681	88044	AN910-4D	COUPLING PIPE..... C13	EA	1
83	17	PAOZZ	4730-00-222-1839	96906	MS51846-58	NIPPLE PIPE..... C13	EA	1
83	18	XDOZZ		81349	MILA52250	AIR CONDITIONER..... C13	EA	1
83	19	PAOZZ	4730-00-821-8981	19207	11668049	ADAPTER STRAIGHT PI ..... C13	EA	2
83	20	PAOZZ		17773	11241706-2	UNION PIPE ..... C13	EA	2
<b>E-213</b>								

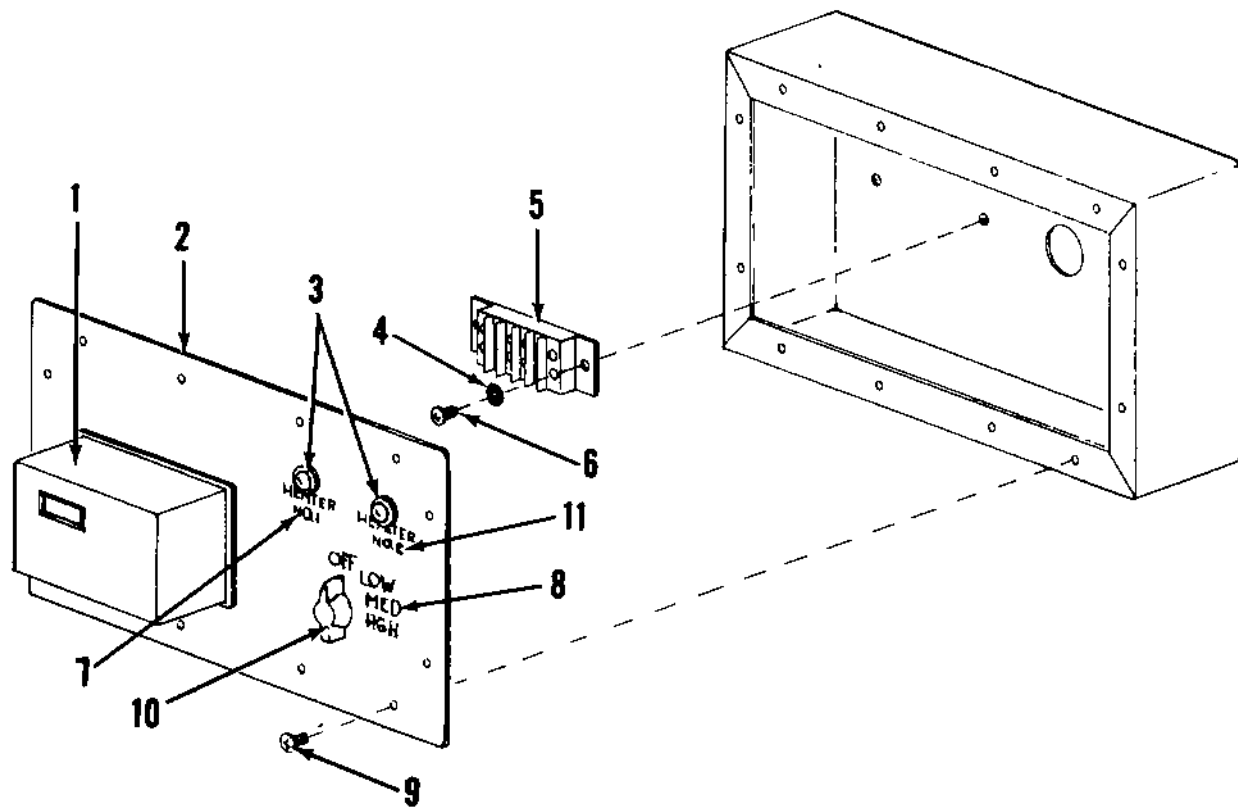


TA 096483

Figure 84. Heater system, XM822.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 5247 HEATING UNITS		
84	1	XBOZZ		19207	11683026	COVER ACCESS ..... C13	EA	1
84	2	XDOZZ	5320-00-175-7604	96906	MS24662-57	RIVET ..... C13	EA	16
84	3	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER LOCK ..... C13	EA	26
84	4	PAOZZ	5305-00-068-0502	96906	MS90725-6	SCREW CAP HEXAGON H..... C13	EA	26
84	5	PAOZZ	5310-00-952-3632	19207	8741247-30	NUT, PLAIN BLIND RIV RIVET ..... C13	EA	26
84	6	PAOZZ	5320-01-037-6819	19207	10882479-1	RIVET BLIND..... C13	EA	47
84	7	XBOZZ		19207	11683020	FRAME ..... C13	EA	1
84	8	PAOZZ		19207	11683011	HEATER ASSY ..... C13	EA	1
84	9	PAOZZ	5305-00-068-0501	96906	MS90725-5	SCREW CAP HEXAGON H..... C13	EA	47
84	10	PAOZZ	5330-00-001-7858	19207	11683030	GASKET ..... C13	EA	1
84	11	PAOZZ	5330-00-001-7857	19207	11683027	GASKET ..... C13	EA	1
84	12	XBOZZ		19207	11683010	PLATE ACCESS..... C13	EA	1
84	13	XDOZZ		19207	11683262-1	HEATING ELEMENT HEATING ELEMENT 1000 WATTS ..... C13	EA	6
84	14	XDOZZ		19207	11683262-2	HEATING ELEMENT HEATING ELEMENT 1600 WATTS ..... C13	EA	6
84	15	XDOZZ	5310-00-959-7600	96906	MS51922-5	NUT SELF-LOCKING HE ..... C13	EA	24
48	16	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER LOCK ..... C13	EA	24
84	17	PAOZZ	5305-00-267-8973	96906	MS90726-4	SCREW CAP HEXAGON ..... C13	EA	24
84	18	XDOZZ		19207	11683100	REGISTER HEATER ..... C13	EA	1
84	18	XDOZZ		19207	11683101	REGISTER HEATER ..... C13	EA	4
84	18	XDOZZ		19207	11683098	REGISTER HEATER ..... C13	EA	2
84	18	XDOZZ		19207	11683099	REGISTER HEATER ..... C31	EA	4
84	19	XBOZZ		19207	11683029	SHIELD HEAT ..... C13	EA	1





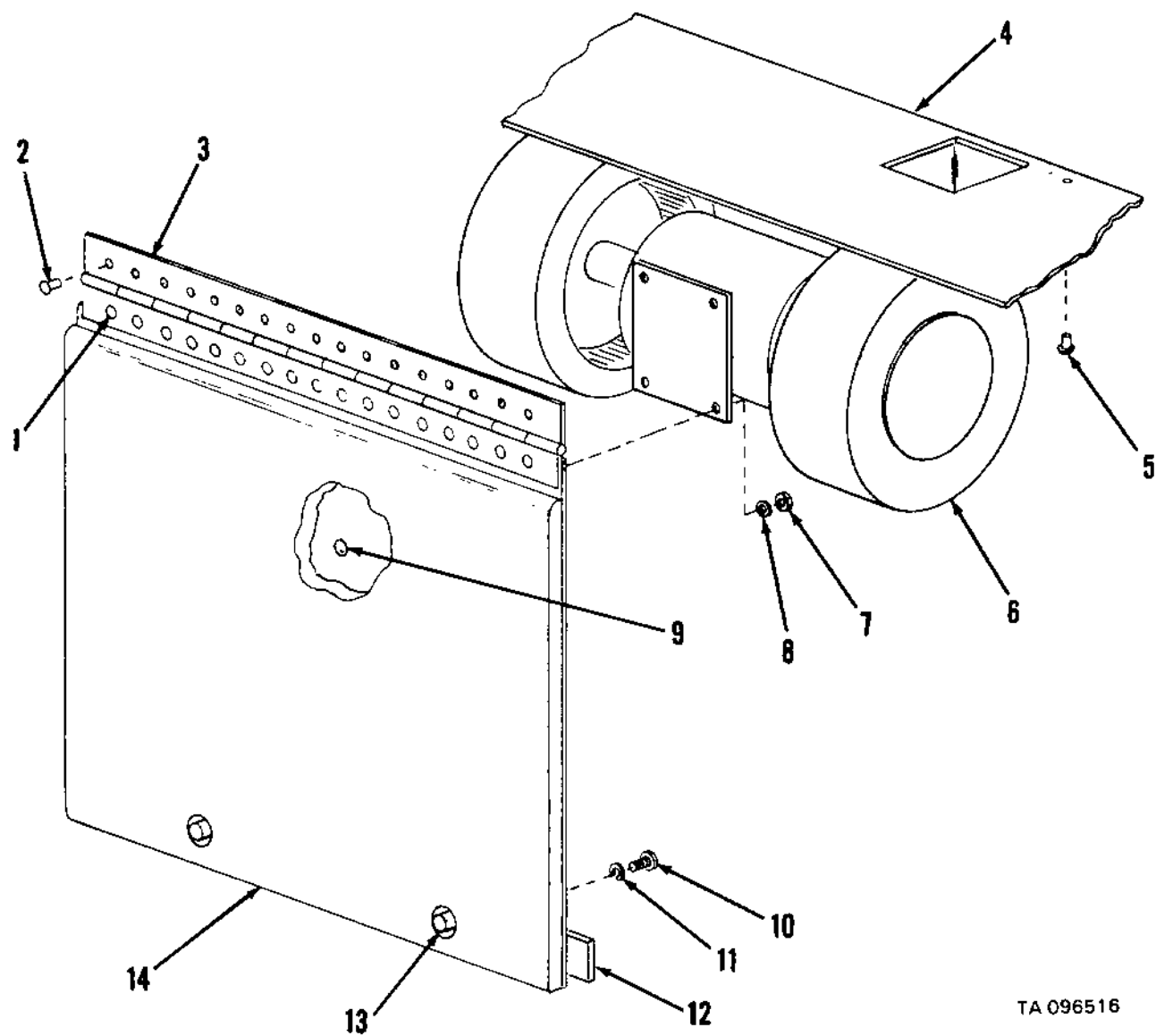
TA 096482

Figure 85. Heater thermostat, XM822.

## SECTION II

TM 9-2330-271-14&P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
85	1	XDOZZ		19207	11683255	THERMOSTAT HEATER..... C13	EA	1
85	2	XBOZZ		19207	11683197	COVER ACCESS ..... C13	EA	1
85	3	XDOZZ		19207	11683253	LAMP INDICATING NEON HEATING CONTROL C13	EA	2
85	4	PAOZZ	5310-00-045-3299	96906	MS35338-42	WASHER LOCK ..... C13	EA	2
85	5	PAOZZ	5975-00-080-4554	89020	524	FANNING STRIP ..... C13	EA	6
85	6	PAOZZ	5305-00-958-4357	96906	MS35207-242	SCREW MACHINE ..... C13	EA	2
85	7	PAOZZ	9905-01-109-5871	19207	11683216-2	PLATE, IDENTIFICATIO IDENTIFICATION..... C13	EA	V
85	8	PAOZZ	9905-01-098-2018	19207	11683217	PLATE, INSTRUCTION IDENTIFICATION ..... C13	EA	1
85	9	PAOZZ	5305-00-088-8330	96906	MS35207-241	SCREW, MACHINE ..... C13	EA	12
85	10	PAOZZ	5930-00-259-4647	96906	MS25002-3	SWITCH ROTARY..... C13	EA	1
85	11	PAOZZ	9905-01-109-5870	19207	11683216-1	PLATE, IDENTIFICATIO IDENTIFICATION..... C13	EA	V
E-217								



TA 096516

Figure 86. Blower installation, XM654.

TM 9-2330-271-14&P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 64 VENTILATING FANS AND BLOWERS GROUP 6402 BLOWER ASSEMBLY		
86	1	PAOZZ	5320-00-242-1580	96906	MS20470A6-6	RIVET SOLID ..... A10	EA	34
86	2	PAOZZ	5320-00-242-1578	96906	MS20470A6-8	RIVET SOLID ..... A10	EA	34
86	3	XDOZZ		40670	3670807	HINGE BUTT ..... A10	EA	2
86	4	XBOZZ		40670	3670812	BRACKET MOUNTING..... A10	EA	2
86	5	PAOZZ	5320-01-028-4855	96906	MS24662-204	RIVET BLIND..... A10	EA	92
86	6	PAOZZ	4140-01-098-2059	40670	3670818	BLOWER AIR BARRIER ..... A10	EA	2
86	7	PAOZZ	5310-00-596-6897	13257	52NE066	NUT ..... A10	EA	8
86	8	PAOZZ	5310-00-080-6004	96906	MS27183-14	WASHER FLAT ..... A10	EA	8
86	9	PAOZZ	5306-00-816-2441	96906	MS35751-71	BOLT SQUARE NECK ..... A10	EA	8
86	10	PAOZZ	5305-00-989-7435	96906	MS35207-264	SCREW MACHINE ..... A10	EA	8
86	11	PAOZZ	5310-00-576-5752	96906	MS35333-39	WASHER LOCK ..... A10	EA	8
86	12	PAOZZ	5330-01-103-1993	40670	3670827	RUBBER STRIP ..... A10	EA	20
86	13	XDOZZ		94222	44-99-225-21	LOCK ASSEMBLY..... A10	EA	2
86	14	XBOZZ		40670	3670809	DOOR, ACCESS ..... A10	EA	2
<b>E-219</b>								

## SECTION II

TM 9-2330-271-14&amp;P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 95 GENERAL USE STANDERIZED PARTS GROUOP 9501 BULK MATERIAL		
		PCFZZ	6145-00-805-3354	81349	M13486-1-12	WIRE, ELECTRICAL C13,C14,C15,C16,C17,C18,C19, .....C61,C62	FT	1
		PCFZZ	6145-00-152-6499	81349	M13486-1-5	WIRE, ELECTRICAL .....	FT	1
		XDFZZ		70903	MW-C14 (41) B9	WIRE, ELECTRICAL ..... A09,A14	FT	1
		XDFZZ		70903	MW-C16 (26) B9	WIRE, ELECTRICAL ..... A09,A14	FT	1
					<b>E-220</b>			

**CROSS- REFERENCE-INDEXES  
NATIONAL STOCK NUMBER INDEX**

<b>STOCK NUMBER</b>	<b>FIG.</b>	<b>ITEM</b>	<b>STOCK NUMBER</b>	<b>FIG.</b>	<b>ITEM</b>
5210-00-001-1255	72	1	5310-00-045-3299	61	15
6645-00-001-1256	6	9	5310-00-045-3299	85	4
6250-00-001-1257	15	3	2540-00-050-0765		
9905-00-001-6351	78	4	4730-00-050-4203	42	4
5330-00-001-7857	84	11	4730-00-050-4208	48	35
5330-00-001-7858	84	10	5940-00-050-6209	16	9
5330-00-001-7859	6	2	5940-00-050-6209	17	2
5330-00-001-7860	13	4	5940-00-050-6209	17	10
5330-00-001-7861	13	5	5940-00-050-6209	17	10
5320-00-011-9285	50	4	5940-00-050-6209	19	8
5315-00-013-7214	66	18	5940-00-050-6209	20	2
5315-00-013-7214	66	18	5940-00-050-6207	24	20
5315-00-013-7214	66	18	5305-00-050-9215	44	13
5315-00-013-7238	46	6	5310-00-052-2242	54	55
5315-00-013-7238	47	8	5310-00-052-6454	50	3
5315-00-013-8143	46	9	5310-00-052-6454	50	39
5315-00-013-8143	47	1	5310-00-052-6454	66	16
5315-00-014-2543	48	12	5310-00-052-6454	66	16
9905-00-014-7068	74	5	5305-00-052-6882	63	40
5310-00-016-7361	44	7	5305-00-052-6906	56	50
5310-00-017-9721	43	8	5305-00-052-6906	59	4
5306-00-017-9722	43	10	5305-00-052-6917	54	60
5305-00-017-9723	50	18	5305-00-052-6917	54	60
4730-00-018-9566	26	16	5305-00-052-6917	54	60
5925-00-019-0103	1	10	5305-00-052-6917	58	3
6240-00-019-0877			5305-00-052-6917	59	16
6240-00-019-0877	7	6	5305-00-052-6917	61	60
6240-00-019-0877	7	6	5305-00-052-6917	64	25
6240-00-019-0877	7	6	5305-00-052-6917	69	14
6240-00-019-0877	8	8	5305-00-052-7380	62	21
6240-00-019-0877	9	7	5305-00-052-7405	56	17
6240-00-019-0877	10	12	5305-00-052-7405	61	41
6240-00-019-3093	10	5	5305-00-052-7492	54	22
6240-00-019-3093	12	7	5305-00-052-7492	54	22
5365-00-023-8241	51	30	5999-00-057-2929	2	5
5330-00-025-8210	6	10	5999-00-057-2929	9	10
5360-00-025-8210	54	21	5999-00-057-2929	10	10
5360-00-025-8210	54	21	5999-00-057-2929	16	11
5360-00-025-8210	58	26	5999-00-057-2929	18	12
5360-00-025-8210	58	26	5999-00-057-2929	18	17
5360-00-025-8210	58	26	5999-00-057-2929	19	15
5360-00-025-8210	59	46	5999-00-057-2929	20	8
5360-00-025-8210	59	46	5999-00-057-2929	20	15
5360-00-025-8210	60	19	5999-00-057-2929	20	21
5360-00-025-8210	64	4	5999-00-057-2929	21	5
2530-00-026-0265			5999-00-057-2929	21	12
2530-00-026-0265	40	1	5999-00-057-2929	23	4
2510-00-037-4972	26	15	5999-00-057-2929	23	15
2530-00-040-2856	48	54	5999-00-057-2929	16	20
2530-00-040-2856	49	2	5340-00-057-4094	68	7
5305-00-042-6417	66	4	5340-00-060-0122	68	11
5305-00-042-6417	81	6	5340-00-060-0122	68	27
5305-00-044-4153	43	3	5340-00-060-0122		
5305-00-044-4153	51	16	2640-00-060-3550	41	4
6240-00-044-6914			2640-00-060-3550	69	16
6240-00-044-6914	9	4	5310-00-062-5300	36	7
6240-00-044-6914	10	4	5330-00-067-5840	54	38
6240-00-044-6914	12	7	5320-00-067-5840	54	38
6240-00-044-6914	12	7	5320-00-067-5840	55	17
5310-00-045-3296	11	2	5320-00-067-5840	56	1
5310-00-045-3296	16	19	5320-00-067-5840	58	8
5310-00-045-3296	16	19	5320-00-067-5840	58	8
5310-00-045-3296	16	19	5320-00-067-5840	59	30
5310-00-045-3296	19	24	5320-00-067-5840	60	1
5310-00-045-3296	24	5	5320-00-067-5840	61	20
5310-00-045-3296	53	16	5320-00-067-5840	63	21
5310-00-045-3296	54	64	5320-00-067-5840	64	22
5310-00-045-3296	54	64	5310-00-067-6356	42	16
5310-00-045-3296	58	4	5310-00-067-6356	51	4
5310-00-045-3296	61	61	5310-00-067-6356	51	27
5310-00-045-3296	66	20	5310-00-067-9507	56	36
5310-00-045-3296	66	20	5310-00-067-9507	61	53
5310-00-045-3296	68	17	5305-00-068-0501	84	9
5310-00-045-3296	68	36	5305-00-068-0502	81	14
5310-00-045-3296	69	15	5305-00-068-0502	84	4
5310-00-045-3296	82	14	5305-00-068-0502	52	10
5310-00-045-3296	1	15	5320-00-068-2057	53	13
5310-00-045-3299	2	9	5305-00-068-9183	60	39
5310-00-045-3299	4	19	4730-00-069-1186	33	6
5310-00-045-3299	9	9	4730-00-069-1186	33	48

**CROSS- REFERENCE-INDEXES**  
**NATIONAL STOCK NUMBER INDEX**

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
4730-00-069-1186	34	3	6240-01-155-8717		
4130-00-069-1186	35	8	6240-01-155-8717		
4730-00-069-1186	38	1	2530-00-157-1396		
4730-00-069-1186	39	5	2530-00-157-1396	33	40
4730-00-069-1187	33	8	2530-03-157-1396	34	28
4730-00-069-1187	35	31	2530-00-157-1396	35	3
5305-00-069-5576	82	1	5305-00-159-5393	54	2
5305-00-071-2237	19	20	5305-00-159-5393	54	2
5305-00-071-2241	65	13	5305-00-159-5393	54	60
5305-00-071-2241	65	13	2530-00-159-8755	29	5
5305-00-071-2241	65	13	2530-00-159-8756	29	5
5305-00-071-2241	65	13	6110-00-161-0404	5	2
5305-00-071-2241	71	20	5340-00-164-3558	54	43
5305-00-071-2241	81	3	5340-00-164-3558	54	43
5975-00-073-4341	5	26	5340-00-164-3558	58	33
2530-00-074-2357	27	6	5340-00-164-3558	60	26
5306-00-074-2366	50	35	5340-00-164-3558	64	35
2530-00-075-5856	38	8	5340-00-167-0721	29	9
2530-00-075-5856	39	12	5325-00-171-6387	16	17
2530-00-075-5856	52	2	5325-00-171-6387	16	17
2540-00-075-6633	42	1	5325-00-171-6387	16	17
2540-00-078-6633	42	11	5325-00-171-6387	16	17
5925-00-080-2113	5	30	5325-00-171-6387	19	16
5975-00-080-4554	1	16	5325-00-174-9008	16	17
5975-00-080-4554	85	5	5325-00-174-9008	16	17
5310-00-080-6004	40	17	5325-00-174-9008	16	17
5310-00-080-6004	66	8	5325-00-174-9008	19	16
5310-00-080-6004	86	8	5320-00-175-7604	84	2
5310-00-080-8495	61	13	2510-00-177-7188	26	2
5310-00-080-8495	62	19	6220-00-179-4324	10	2
5310-00-080-8495	63	20	9390-00-180-7289	16	7
5310-00-080-8495	67	20	9390-00-180-7289	22	5
5310-00-080-8495	70	22	9390-00-180-7289	24	16
5325-00-081-4157	63	16	4730-00-187-7612	33	46
5305-00-082-6977	44	9	4730-00-187-7612	34	33
5340-00-088-1254	16	20	4730-00-187-7612	35	36
5340-00-088-1254	16	20	4730-00-196-0883	33	34
5340-00-088-1254	19	22	4730-00-196-0883	34	11
5305-00-088-8330	85	9	3110-00-198-0014	26	12
5306-00-089-0175	55	27	9905-00-202-3639	72	9
5306-00-089-0175	60	31	9905-00-202-3639	72	9
5365-00-090-5426	16	6	4710-00-203-0028	35	13
5365-00-090-5426	17	7	4710-00-203-3172	33	9
5365-00-090-5426	17	5	4710-00-203-3172	33	9
5365-00-090-5426	17	15	4710-00-203-3172	33	9
5365-00-090-5426	19	6	4710-00-203-3L72	33	9
5365-00-090-5426	22	8	4710-00-203-3172	33	36
5365-30-090-5426	23	7	4710-00-203-3172	34	1
5365-00-090-5426	23	17	4710-00-203-3172	38	2
5365-00-090-5426	24	18	4710-00-203-3172	39	23
3110-00-100-0515	4R	7	4730-00-204-3392	71	4
3110-00-100-4220	48	7	9905-00-205-2795	72	9
3110-00-100-5951	40	8	9905-00-205-7795	72	9
3110-00-100-6164	48	10	5310-00-209-0965	82	2
5120-00-104-4076			9320-00-209-1900	63	2
3120-00-105-9923	26	10	5935-00-214-0904	20	14
3120-00-105-9923	26	11	5310-00-220-2665	26	17
9320-00-107-9923	63	2	5310-00-220-6848	48	6
9320-00-107-0847	63	2	4730-00-221-5012	71	8
5935-00-112-4416	5	14	4730-00-222-1839	83	17
5305-00-115-9526	9	13	5120-00-222-1904		
5305-00-115-S526	10	7	5120-00-224-7330		
3110-00-117-0759	48	20	5305-00-225-3839	60	50
5320-00-117-6856	64	47	5305-00-225-3842	10	18
2530-00-118-8589	37	1	530L-00-225-6992	51	22
2530-00-118-8589	31	1	5306-00-225-8496	26	22
4010-00-129-3221	42	13	5306-00-225-8496	32	3
5320-00-129-5706	2	1	5305-00-225-9081	6	20
5935-00-131-9685	5	17	5306-00-225-9084	8	15
5935-00-131-9685	5	18	5305-00-225-9101	50	17
1440-00-133-9471	26	1	5306-00-226-4831	81	19
5935-00-137-4670	4	21	5305-00-226-7768	83	4
3110-00-142-4355	48	7	4730-00-231-5644	34	6
2530-00-142-6045	36	1	5320-00-234-2597	83	11
4730-00-143-4324	71	5	4730-00-240-9154	35	11
5310-00-149-9126	51	25	5310-00-240-9332	50	41
5306-00-150-3075	42	18	5320-00-242-1576	68	9
5305-00-150-3583	72	3	5320-09-242-1576	68	26
3040-00-150-7127	27	6	5320-00-242-1578	61	3
6145-00-152-6499			5320-00-242-1578	62	8

**CROSS- REFERENCE-INDEXES**  
**NATIONAL STOCK NUMBER INDEX**

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5320-00-242-1578	62	11	5305-03-269-3250	35	76
5320-00-242-1578	63	12	5310-00-269-4040	51	74
5320-00-222-1578	67	11	2610-00-269-7383		
5320-00-242-1578	67	15	2610-00-269-7383	41	2
5320-00-242-1578	67	77	2530-00-270-3878	33	2
5320-0C-242-1578	68	28	?530-00-270-3878	33	11
5320-00-242-1578	86	2	2530-00-270-3878	34	16
5320-00-242-1579	54	15	2530-00-270-3878	35	15
5320-00-242-1579	54	15	2530-00-270-3878	39	4
5320-00-242-1579	62	9	4730-00-270-4580	35	29
5320-00-242-1579	63	10	4730-0D-270-4580	38	7
5320-00-242-1579	64	49	473n-00-270-4580	39	9
5320-00-242-L579	67	13	5325-00-270-8890	16	17
5320-00-242-1580	54	13	5325-00-270-3890	24	10
5320-00-242-1580	54	13	4320-00-213-0853	3	8
5320-00-242-1580	64	48	5306-00-274-0958	50	24
5320-00-242-L580	68	10	5365-00-274-4544	30	12
5320-00-242-1580	68	14	5365-00-274-4544	32	7
5220-00-242-1580	68	31	5310-00-275-6635	30	14
5320-00-242-1580	86	1	4710-00-277-5525	34	5
5320-00-242-1587	72	3	4710-00-277-5525	35	27
5315-00-243-1169	42	1	4710-00-277-5525	38	4
5940-00-244-9749	1	11	4710-00-277-5525	39	10
4730-00-244-9848	33	7	4710-00-277-5529	33	24
4730-00-244-9848	33	7	4710-00-277-5529	34	4
4730-00-244-9848	34	13	4710-00-277-5529	35	12
4130-00-244-9848	35	18	4710-00-277-5529	83	12
4730-00-244-9848	38	19	2530-00-278-2243	31	1
4130-00-244-9848	39	3	4730-00-278-2681	83	16
4730-00-244-5848	70	2	4730-00-278-3213	33	15
4730-00-249-3935	33	33	4730-00-278-3213	38	10
4730-00-249-3935	34	14	5975-00-280-3510	3	3
4730-00-249-3935	35	17	5975-00-280-3510	5	8
4730-00-249-3935	39	13	5920-00-280-8342	5	33
5325-00-249-6352	33	44	5310-00-782-4776	51	21
5305-00-253-5626	42	12	5340-00-282-8335	24	4
4130-00-254-6450	83	3	5935-00-283-3394	16	20
5930-00-259-4647	85	10	5920-00-284-6787	5	32
2610-00-262-8677			5320-00-285-1025	43	IS
2610-00-262-8677	41	1	2540-00-287-2571	55	18
5320-00-204-3351	65	10	2540-00-287-2571	56	2
4730-00-266-1835	83	13	2540-00-287-2571	58	9
5305-00-267-8973	84	17	2540-00-287-2571	58	9
5305-00-267-8971	52	8	2540-00-287-2571	59	31
5305-00-269-2803	28	17	2540-00-287-2571	61	71
5305-00-269-2803	34	20	2540-00-287-2571	63	22
5305-00-269-2803	35	25	2530-00-287-8252	32	12
5305-00-269-2803	36	11	4730-00-289-0051	35	7
5305-00-269-2805	30	8	5325-00-290-0074	16	17
5305-00-269-2807	28	17	5325-00-290-3816	64	50
5305-00-269-2807	28	17	5325-00-290-3816	68	4
5305-00-269-3213	33	28	5325-00-290-3816	68	34
5305-00-269-3213	54	48	5315-00-290-6132	42	6
530s-00-269-3213	54	48	5325-00-290-8026	61	10
5305-00-269-3213	56	26	5325-00-290-8026	62	14
5305-00-269-3213	56	32	5325-00-290-8026	67	17
5305-00-269-3213	57	28	5325-00-290-8026	67	31
5305-00-269-3213	57	35	5340-00-291-4214		
5305-00-269-3213	59	29	5305-00-292-7947	63	38
5305-00-269-3213	61	48	5305-00-292-7947	65	17
5305-00-269-3214	58	38	5330-00-297-7106	9	5
5305-00-269-3214	58	38	5315-00-298-1481	43	6
5305-00-269-3214	58	38	5325-00-298-7004	54	16
5305-00-269-3214	59	29	5325-00-298-7004	54	16
5305-00-269-3214	60	31	5325-00-298-7004	63	51
5305-00-269-3214	64	40	6220-00-299-5893	12	1
5305-00-269-3216	56	32	6250-00-299-6096	14	5
5305-00-269-3216	59	29	6220-00-299-7425	7	4
5305-00-269-3233	29	2	6220-00-299-7425	7	4
5305-00-269-3234	54	29	6220-00-299-7426	7	4
5305-00-269-3234	55	10	6220-00-299-7426	7	4
5305-00-269-3234	56	10	5310-00-314-0764	27	5
5305-00-269-3234	57	13	5310-00-314-0765	27	4
5305-00-269-3234	58	23	5315-00-316-1063	48	31
5305-00-269-3234	59	43	1005-00-317-2453	2	15
5305-00-269-3234	60	16	2530-00-318-1227	36	3
5305-00-269-3234	61	29	3020-00-319-6011	48	40
5305-00-269-3234	63	31	5310-00-322-7260	27	3
5305-00-269-3234	64	12	2530-00-322-7261	27	2
5305-00-269-3250	34	21	4710-00-322-7264	48	27



**CROSS- REFERENCE-INDEXES**  
**NATIONAL STOCK NUMBER INDEX**

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5306-00-322-1365	48	25	5305-00-432-4201	75	1
5306-00-335-4768	40	16	5305-00-432-4201	76	1
4820-00-350-6495	34	12	5305-00-432-4201	71	1
4820-00-350-6749	33	23	5305-00-432-4201	79	1
5330-00-353-0959	7	8	5305-00-432-4201	19	1
5330-00-353-0959	7	8	5305-00-432-4201	80	2
5330-00-353-0959	7	8	5305-00-432-4203	72	8
4910-00-357-5494			5305-00-432-4205	11	3
5307-00-358-0792	70	8	5305-00-432-4205	24	6
5307-00-355-0297	11	24	5305-00-432-4205	55	1
2530-00-359-1162	40	11	5305-00-432-4205	55	1
6250-00-311-4018	1	7	5305-00-432-4205	56	43
6250-00-371-4018	7	7	5305-00-432-4205	56	43
6250-00-371-4018	1	7	5305-00-432-4205	57	21
5306-00-383-4957	40	14	5305-00-432-4205	58	1
4720-00-384-8245	30	3	5305-00-432-4205	58	1
5310-00-393-6685	16	8	5305-00-432-4705	59	18
5310-00-393-6685	17	8	5305-00-432-4205	60	33
5310-00-393-6685	17	16	5305-00-432-4205	61	43
5310-00-393-6685	17	16	5305-00-442-4252	66	11
5310-00-393-6685	19	7	5305-00-432-4252	66	11
5310-00-393-6685	22	7	5305-00-432-4252	72	8
5310-00-393-6685	23	8	5305-00-432-4254	55	7
5310-00-393-6685	23	18	5305-00-432-4254	56	13
5310-00-393-6685	24	19	5305-00-432-4254	56	41
5940-00-339-6676	17	13	5305-00-432-4254	57	3
5940-00-399-6676	17	13	5305-00-432-4254	58	25
5940-00-399-6616	18	16	5305-00-432-4254	58	25
5940-00-394-6676	19	4	5305-00-432-4254	59	45
5940-00-399-6676	20	12	5305-00-432-4254	60	18
5925-00-400-1561	1	5	5305-00-432-4254	61	37
5310-00-407-9566	6	19	5305-00-432-4254	63	24
5310-00-407-9566	8	14	5305-00-432-4254	64	5
5310-00-407-9566	26	21	5105-00-432-4255	57	19
5310-00-407-9566	32	2	6220-00-433-5966	8	4
5310-00-407-9566	50	7	5995-00-435-2498		
5310-00-407-9566	65	2	5935-00-455-2634	5	21
5310-00-407-9566	65	2	5930-00-455-2748	5	3
5310-00-407-9566	66	2	5930-00-455-3418	5	4
5310-00-407-9566	81	70	5330-00-462-0907	10	3
5330-00-414-6695	54	37	4730-00-463-1588	30	9
5330-00-414-6695	54	31	5305-00-469-3722	62	29
5330-00-414-6695	55	16	5305-00-476-7369	12	3
5330-00-414-6695	56	3	5305-00-476-7369	13	14
5330-00-414-6695	58	10	5305-00-483-0555	17	3
5330-30-414-6695	58	10	5305-00-483-0555	12	3
5330-00-414-66S5	59	32	5305-00-483-0555	13	14
5330-00-414-6695	60	3	5305-00-483-0555	14	8
5330-00-414-6695	61	22	5310-00-488-9342	44	8
5330-00-414-66S5	63	23	4130-00-494-6580	38	9
5330-00-414-6695	64	20	4730-00-494-6580	39	24
4730-00-419-9425	30	11	5310-00-500-0387	40	9
4730-00-419-9425	32	6	6220-00-500-0437	9	2
4820-00-420-5499	33	35	5340-00-510-8828	48	33
4820-00-432-1336	83	14	2590-00-510-8829	40	34
2590-00-432-1339	22	1	5340-00-510-8831	48	41
2590-00-432-1340	17	9	4710-00-511- 1692	31	4
4720-00-432-1341	83	1	5330-00-513-9933	48	3
5305-00-432-4164	73	1	5340-00-514- 1330	82	10
5305-00-412-4164	73	1	5315-00-515-0495	48	21
5305-00-432-4164	73	1	5310-00-515-9267	70	7
5305-00-432-4164	74	1	5310-00-515-9267	71	25
5305-00-432-41 64	75	4	5365-00-516-7878	31	9
5305-00-432-4164	8	2	2530-00-522-1157	28	12
5305-00-432-4164	78	2	5940-00-534-0991	24	12
5305-00-432-4166	2	1	5940-00-534-0991	24	15
5305-00-432-4171	61	14	6240-00-536- 1851	14	11
5305-00-432-4111	67	5	5915-00-538-6260	3	1
5305-00-432-4172	7	10	5305-00-543-2419	66	4
5305-00-432-4172	62	28	5340-00-543-3398	54	52
5305-00-432-4172	66	11	5320-00-543-3680	54	7
5305-00-432-4172	66	11	5320-00-543-3680	54	7
5305-00-432-4172	66	11	5320-00-543-3680	64	55
5305-00-432-4173	53	10	3120-00-544-1535	48	15
5305-00-432-4173	58	40	5310-00-550- 1130	2	12
5305-00-432-4201	64	25	5310-00-550-1130	2	12
5305-00-432-4201	71	43	5310-00-550-1130	16	19
5305-00-432-4201	72	8	5310-00-550-1130	16	19
5305-00-432-4201	73	6	5310-00-550-1130	33	12
5305-00-432-4201	74	4	5310-00-550-1130	38	12

**CROSS- REFERENCE-INDEXES**  
**NATIONAL STOCK NUMBER INDEX**

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5310-00-550-1130	39	20	5310-00-584-5272	48	45
5310-00-550-3503	21	9	5310-00-584-5272	4	45
4210-00-555-8837			5310-00-584-5272	49	8
4210-00-555-8837			5310-00-584-5272	51	12
4210-00-555-8837			5310-00-584-5272	57	32
5310-00-559-0070	7	9	5310-00-584-5272	66	5
5310-00-559-0070	56	56	5310-00-584-5272	66	16
3020-00-562-0487	48	39	5310-00-584-5272	81	7
3020-00-562-0488	48	8	5310-00-584-5272	81	9
9390-00-563-1562	62	32	5310-00-584-7888	42	17
4710-00-566-7133	32	9	5310-00-584-1888	50	36
4710-00-566-7134	32	11	5310-00-584-7888	51	9
5935-00-572-9180	2	3	5310-00-584-7889	50	42
5935-00-572-9180	9	11	5320-00-584-9078	69	22
5535-00-572-9180	10	8	5320-00-584-9078	70	11
5935-00-572-9180	16	12	5320-00-584-9078	71	11
5935-00-572-9180	18	110	5340-00-584-9400	62	26
5935-00-572-9180	18	18	5340-00-584-9400	66	14
5935-00-572-9180	19	13	5310-00-586-1767	48	30
5935-00-572-9180	20	6	4730-00-595-0083	33	1
5935-00-572-9180	20	13	4730-00-595-0083	33	32
5935-00-572-9180	20	22	4730-00-595-0083	34	15
5935-00-572-9180	21	6	4730-00-595-0083	35	16
5935-00-572-9180	21	13	4730-00-595-0083	38	18
5935-00-572-9180	23	2	4730-00-595-0083	39	1
5935-00-572-9180	23	13	5310-00-595-6612	51	3
5310-00-576-5752	1	9	5310-00-595-6612	51	26
5310-00-516-5752	7	9	5310-00-595-7237	56	21
5310-00-576-5152	86	11	53L0-00-595-7237	57	15
6220-00-577-3434	7	1	5310-00-595-7237	61	34
6220-00-577-3434	7	1	5310-00-596-6897	86	7
6220-00-577-3435	7	1	53L0-00-596-7693	67	4
5325-00-577-6134	16	17	5310-00-596-8169	7	5
5325-00-575-6134	16	17	5310-00-596-8169	7	5
5325-00-579-6134	16	17	5310-00-596-8169	7	5
5325-00-579-6134	19	16	5340-00-597-6153	16	20
5320-00-582-3494	6	15	5340-00-591-6153	16	20
5320-00-582-3494	14	4	5340-00-597-6153	19	22
5320-00-582-3494	69	18	5340-00-597-6153	19	22
5320-00-582-3494	70	21	5340-00-591-6153	24	4
5320-00-582-3494	71	7	9320-00-611-6416	54	4
5320-00-582-3494	71	29	9320-00-611-6416	54	4
5325-00-582-3839	64	51	9320-00-611-6416	63	7
5310-00-582-5665	19	18	9320-00-611-6416	64	42
5310-00-582-5665	28	4	5330-00-614-4356	40	5
5310-00-582-5965	28	10	1015-00-614-4454	40	4
5310-00-582-5965	33	21	5930-00-615-6731	5	11
5310-00-582-5965	40	20	5320-00-616-4869	70	13
5310-00-582-5965	52	3	53 5-00-616-5522	4	4
5310-00-582-5965	54	23	5315-00-616-5530	48	13
5310-00-582-5965	54	23	5310-00-616-6857	48	4
5310-00-582-5965	55	8	6240-00-617-0991		
5310-00-582-5965	56	14	6240-00-617-0991	11	4
5310-00-582-5965	57	4	5325-00-624-9931	6	13
53L0-00-582-5965	58	24	5325-00-624-9931	69	24
5310-00-582-5965	58	24	5325-00-624-9931	70	15
5310-00-582-5965	59	44	5325-00-624-9931	71	17
5310-00-582-5965	60	17	5325-00-624-9931	71	34
5310-00-582-5965	60	49	5310-00-627-6128	28	16
5310-00-582-5965	61	36	5310-00-627-6128	29	3
5310-00-582-5965	63	25	4820-00-629-2180	35	19
5310-00-582-5965	64	6	2590-00-630-1567	54	21
5310-00-582-5965	65	11	2590-00-630-1567	55	15
5310-00-582-5565	65	11	2590-00-630-1567	63	30
5310-00-582-5965	65	11	2590-00-630-1567	64	11
5310-00-582-5965	65	11	4710-00-630-9928	32	11
5310-00-582-5965	71	40	5305-00-633-0785	8	12
5310-00-582-5965	81	4	5930-00-636-1285	5	10
5310-00-582-5965	81	12	5320-00-637-6072	83	110
5310-00-582-5965	82	8	5310-00-637-9541	9	14
5310-00-582-5965	84	3	5310-00-637-9541	10	6
5310-00-582-5965	84	16	5310-00-631-9541	15	5
5310-00-582-6714	33	50	5310-00-637-9541	30	7
5325-00-584-1271	69	25	5310-00-637-9541	31	8
5325-00-584-1271	70	14	5310-00-637-9541	33	29
5325-00-584-1211	71	18	5310-00-637-9541	33	38
5325-00-584-1271	71	35	5310-00-637-9541	34	22
5310-00-584-5272	43	2	5310-00-637-9541	35	24
5310-00-584-5272	45	5	5310-00-637-9541	36	10
5310-00-584-5272	48	36	5310-00-637-9541	37	3

**CROSS- REFERENCE-INDEXES  
NATIONAL STOCK NUMBER INDEX**

<b>STOCK NUMBER</b>	<b>FIG.</b>	<b>ITEM</b>	<b>STOCK NUMBER</b>	<b>FIG.</b>	<b>ITEM</b>
5310-00-637-9541	43	12	5315-00-682-2201	64	19
5310-00-637-9541	44	6	5935-00-686-2599	22	12
5310-00-631-9541	48	56	5305-00-688-2111	37	4
5310-00-637-9541	49	4	2530-00-690-2669	25	1
5310-00-637-9541	54	28	5360-00-692-6059	50	13
5310-00-637-9541	54	41	5310-00-693-0622	26	6
5310-00-637-9541	54	41	5310-00-693-0623	26	7
5310-00-637-9541	55	11	5330-00-693-0624	26	8
5310-00-637-9541	55	20	2530-00-693-1007	27	8
5310-00-637-9541	56	9	2530-00-693-1029	40	10
5310-00-637-9541	56	25	2590-00-693-3452	9	3
5310-00-637-9541	57	12	5315-00-699-8465	50	11
5310-00-637-9541	57	27	5360-00-699-9018	28	13
5310-00-637-9541	58	22	3020-00-701-4980	48	5
5310-00-637-9541	58	31	3120-00-701-4995	48	16
5310-00-637-9541	58	31	5360-00-704-4253	42	10
5310-00-637-9541	59	22	5940-00-705-6708	18	5
5310-00-037-9541	59	42	5305-00-716-8179	48	43
5310-00-637-9541	60	15	1440-00-717-5144	50	23
5310-00-637-9541	60	24	5365-00-717-5617	65	8
5310-00-637-9541	61	28	5305-00-719-5184	66	11
5310-00-637-9541	61	49	5305-00-719-5221	45	6
5310-00-637-9541	63	32	5305-00-719-5275	56	38
5310-00-637-9541	64	13	5305-00-719-5215	57	34
5310-00-637-9541	64	33	5305-00-719-5275	61	56
5310-00-637-9541	65	5	5325-00-720-8076	33	10
5310-00-637-9541	65	5	5310-00-720-8208	8	2
5310-00-637-9541	65	5	5310-00-720-8549	69	8
5310-00-637-9541	65	5	5320-00-721-5210	11	13
5310-00-637-9541	66	5	5320-00-721-5210	71	32
5310-00-637-9541	66	9	5320-00-721-5211	68	5
5310-00-631-9541	66	9	5320-00-121-5211	68	24
5310-00-637-9541	66	9	5320-00-721-5211	70	10
5220-00-638-8619	6	5	5320-00-721-5211	71	38
5320-00-638-8619	61	17	5305-00-123-9386	54	45
5320-00-638-8619	62	4	5305-00-723-9386	55	24
5320-00-638-8619	63	5	5305-00-723-9386	56	29
5320-00-638-8619	67	8	5305-00-723-9386	58	36
5320-00-638-8619	67	35	5305-00-123-9386	59	26
5310-00-641-9939	28	9	5305-00-123-9386	60	29
2510-00-647-0907	50	20	5305-00-723-9386	64	37
2510-00-641-0908	50	21	5305-00-725-4138	48	43
2510-00-647-0909	50	22	5305-00-725-4183	48	37
5306-00-647-1029	50	9	5305-00-725-4183	48	44
5930-00-655-1513	2	6	5305-00-725-4187	49	18
5930-00-655-1514	2	18	6220-00-126-1916	7	1
5340-00-664-7442	81	15	6220-00-726-1916	7	1
6220-00-669-5623	9	1	5305-00-726-2559	51	29
2530-00-670-5334	48	22	6220-00-727-3288	7	1
2530-00-678-4089	46	4	5305-00-727-5677	48	44
2530-00-678-4090	46	4	5305-00-727-5677	66	1
1510-00-678-4091	46	10	5305-00-727-5677	66	17
2530-00-678-4092	46	12	5305-00-727-8816	50	49
2530-00-678-4092	47	4	4730-00-729-6437	30	10
2530-00-678-4092	47	12	4730-00-729-6437	32	8
2530-00-678-4092	49	12	2530-00-730-7620	28	1
2530-00-678-4092	65	14	2530-00-730-7621	28	1
2530-00-678-4093	46	2	5310-00-732-0558	33	30
2590-00-678-6124	23	12	5310-00-732-0558	33	1
4120-00-678-6125	33	45	5310-00-732-0558	37	2
4120-00-678-6125	34	32	5310-00-732-0558	48	57
4720-00-678-6125	35	37	53L0-00-732-0558	49	5
5365-00-678-6872	48	32	5310-00-732-0558	50	6
2530-00-678-9029	50	38	5310-00-732-0558	50	32
5330-00-678-9047	8	9	5310-00-732-0558	54	40
5310-00-679-5658	48	9	5310-00-732-0558	54	40
5305-00-680-9197	48	42	5310-00-732-0558	55	19
5975-00-682-0560	5	12	5310-00-732-0558	56	24
5975-00-682-0561	4	2	5310-00-732-0558	57	26
5935-00-682-0569	3	21	5310-00-732-0558	58	32
5340-00-682-1508			5310-00-732-0558	58	32
5340-00-682-1508			5310-00-732-0558	59	21
5340-00-682-1508			5310-00-732-0558	60	25
5315-00-682-2207	54	36	5310-00-732-0558	61	50
5315-00-682-2207	54	36	5310-00-732-0558	64	32
5315-00-682-2207	58	11	5310-00-732-0558	65	4
5315-00-682-2207	58	11	5310-00-732-0558	65	4
5315-00-682-2207	59	33	5310-00-732-0558	65	4
5315-00-682-2207	59	33	5310-00-732-0558	65	4
5315-00-682-2207	60	4	5310-00-732-0558	66	10

## NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5310-00-732-0559	28	15	6220-00-752-6516	7	3
5310-00-732-0559	28	15	6220-00-752-6516	7	3
5310-00-732-0559	30	6	2530-00-753-9308	31	10
5310-00-732-0559	31	7	5325-00-754-1071	33	10
5310-00-732-0559	34	23	5325-00-754-1154	16	17
5310-00-732-0559	35	23	5310-00-754-2005	26	14
5310-00-732-0559	36	9	5935-00-754-9083	22	14
5310-00-732-0559	61	62	1620-00-756-9181	62	36
5310-00-732-0559	66	10	5310-00-761-6882	2	11
5310-00-732-0559	66	10	5310-00-761-6882	2	11
5310-00-732-0559	66	10	5310-00-761-6882	2	11
5310-00-732-0560	45	4	5310-00-761-6882	16	18
5310-00-732-0560	48	46	5310-00-761-6882	16	18
5310-00-732-0560	48	46	5310-00-761-6882	28	3
5310-00-732-0560	49	7	5310-00-761-6882	33	11
5310-00-732-0560	66	15	5310-00-761-6882	33	20
5310-00-732-0688	8	13	5310-00-761-6882	38	11
5306-00-713-9239	40	14	5310-00-761-6882	39	19
5320-00-735-5198	50	31	5310-00-761-6882	43	13
1440-00-735-5316	40	19	5310-00-761-6882	71	39
2510-00-736-8629	50	26	5310-00-761-6882	81	13
2510-00-736-8641	50	27	5310-00-761-6882	82	9
2510-00-736-8642	50	28	5305-00-762-6041	66	17
2510-00-736-8676	50	30	5310-00-763-8901	50	2
2510-00-736-8677	50	29	5310-00-763-8901	51	10
2510-00-737-3221	50	10	5310-00-763-8901	66	15
5365-00-737-3354	31	6	5310-00-763-8901	66	15
2530-00-738-9061	40	2	5310-00-763-8901	66	15
2530-00-738-9620	40	3	5310-00-763-8905	33	42
5340-00-740-5335	50	8	5310-00-763-8909	34	26
2530-00-741-1078	33	25	5310-00-763-8905	35	5
2530-00-741-1078	34	18	5310-00-763-8905	48	46
2530-00-741-1078	35	22	5310-00-763-8905	48	46
5310-00-741-1378	40	7	5310-00-763-8920	66	15
5310-00-741-1379	40	6	5310-00-763-8920	66	15
2530-00-741-1425	40	12	5305-00-764-0070	8	11
5330-00-741-1429	40	11	5310-00-768-0318	43	1
5305-00-741-1433	40	15	5310-00-768-0318	51	11
5306-00-741-1760	28	2	5310-00-768-0318	81	8
4730-00-741-1903	32	10	5310-00-768-0319	52	4
4110-00-741-1907	32	9	2590-00-770-3430	48	1
2530-00-741-2050	12	1	2530-00-770-9149	29	6
2530-00-741-2065	32	13	2530-00-770-9150	29	7
2530-00-741-2068	32	1	2530-00-770-9151	29	7
5310-00-741-2088	30	13	5975-00-771-6634	22	13
5310-00-741-2088	32	5	5935-00-771-6793	22	6
5365-00-741-2103	28	8	5935-00-771-6794	23	16
2530-00-741-2104	29	10	5935-00-773-1428	2	10
5315-00-741-2106	28	7	4730-00-773-2163	31	5
5310-00-741-2120	29	11	2540-00-773-9385		
6220-00-741-27e9	12	4	2540-00-773-9385	48	49
6220-00-741-2769	12	4	2530-00-774-4947	48	26
5330-00-741-2770	12	5	2530-00-774-9401	27	1
5330-00-741-2770	12	5	2530-00-774-9402	27	1
5330-00-741-2770	12	5	6220-00-775-2384	8	10
5330-00-741-2770	14	2	1450-00-776-3264	28	6
2530-00-741-3231	40	13	5360-00-780-0508	36	5
2530-00-741-5451	8	7	2590-00-780-0822	48	1
3040-00-752-1156	43	14	5970-00-781-9861	8	5
2510-00-752-1157	43	5	6240-00-782-2052	13	2
2510-00-752-1160	43	4	5305-00-782-9489	48	55
2510-00-752-1161	43	9	5305-00-782-9489	49	3
2510-00-752-1163	43	7	2530-00-791-0110	29	1
2510-00-752-1639	50	47	2530-00-791-3259	29	1
2510-00-752-1640	26	20	2530-00-791-3259	29	12
5306-00-752-1642	26	13	4710-00-791-8077	32	4
2510-00-752-1645	26	5	4710-00-791-8078	32	4
5330-00-752-1648	26	19	2530-00-794-9763	28	12
5310-00-752-1650	26	18	5310-00-797-4870	50	40
5935-00-752-1737	50	33	2530-00-797-9295	33	19
2530-00-752-1831	50	52	5306-00-791-9296	33	22
2530-00-712-1832	50	46	1440-00-798-4812	29	4
2530-00-712-1833	50	45	1440-00-798-4824	29	4
2530-00-752-1834	50	44	5315-00-800-0712	54	33
5935-00-752-3099	24	9	5315-00-800-0112	58	15
5315-00-752-4316	42	9	5315-00-800-0712	59	36
6220-00-752-5992	7	11	5315-00-800-0712	59	36
6220-00-752-5993	7	11	5315-00-800-0712	60	8
6220-00-752-6020	9	6	5315-00-800-0712	64	16
6220-00-752-6516	7	3	2590-00-800-7756	48	11

## NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5305-00-801-5747	21	11	5935-00-833-8561	17	11
5365-00-803-7301	42	5	5935-00-833-8561	18	2
6145-00-805-3354			5935-00-833-8561	18	7
5310-00-807-1467	6	7	5935-00-833-8561	18	14
5340-00-809-1492	33	14	5935-00-833-8561	19	2
5340-00-809-1492	38	14	5935-00-833-8561	19	10
5340-00-809-1492	39	22	5935-00-833-8561	20	3
4720-00-809-2750	31	2	5935-00-833-8561	20	10
5310-00-089-4058	19	19	5935-00-833-8561	20	18
5310-00-089-4085	43	2	5935-00-833-8561	21	2
5310-00-809-5997	43	2	5935-00-833-8561	21	9
5310-00-809-5998	56	37	5935-00-833-8561	22	2
5310-00-809-5998	61	54	5935-00-833-8561	23	9
2540-00-809-7796	54	19	5970-00-833-8562	16	3
2540-00-809-7796	54	19	5970-00-833-8562	16	15
2540-00-809-7796	55	6	5970-00-833-8562	17	4
2540-00-809-7796	56	15	5970-00-833-8562	17	12
2540-00-809-7196	57	2	5970-00-833-8562	17	12
2540-00-809-7796	58	28	5970-00-833-8567	11	12
2540-00-809-7796	58	28	5970-00-833-8562	18	3
2540-00-809-7796	59	48	5970-00-833-8562	18	9
2540-00-809-7796	60	21	5970-00-833-8562	8	15
2540-00-809-7796	61	38	5970-00-833-8562	19	3
2540-00-800-7796	64	2	5970-00-833-8562	19	11
5310-00-809-8533	46	9	5970-00-833-8562	20	4
5310-00-809-8533	47	3	5970-00-833-8562	20	11
5310-00-809-8533	51	8	5970-00-833-8562	20	19
5310-00-809-8541	46	5	5970-00-833-8562	21	3
5310-00-809-8541	47	1	5970-00-833-8562	21	10
5310-00-809-8541	70	3	5970-00-833-8562	22	3
5310-00-809-8546	54	51	5970-00-833-8562	23	10
5315-00-810-3704	48	14	5370-00-833-8567	2	4
2640-00-810-5861			5310-00-833-8562	9	12
2640-00-810-5861	41	3	5310-00-833-8567	10	9
5325-00-811-2699	66	25	5310-00-833-8567	16	13
5325-00-814-3316	34	29	5310-00-833-8561	18	11
5325-00-814-3316	35	33	5310-00-833-8567	18	19
5325-00-814-3316	39	18	5310-00-833-8561	19	14
5315-00-816-1794	56	11	5310-00-833-8567	20	7
5315-00-816-1794	57	6	5310-00-833-8567	20	16
5315-00-816-1794	61	30	5310-00-833-8567	20	23
5315-00-816-1794	63	36	5310-00-833-8567	21	7
5306-00-816-2441	54	42	5310-00-833-8567	21	14
5306-00-816-2441	54	42	5310-00-833-8567	23	3
5306-00-816-2441	55	21	5310-00-833-8567	23	14
5306-00-816-2441	56	26	5935-00-834-4904	3	23
5306-00-816-2441	58	30	6220-00-835-6316	11	6
5306-00-816-2441	58	30	4730-00-831-1177	35	20
5306-00-816-2441	59	23	5340-00-838-5266		
5306-00-816-2441	60	23	5340-00-839-0098	54	25
5306-00-816-2441	64	34	5340-00-839-0098	55	14
5306-00-816-2441	86	9	5340-00-839-0098	56	5
5310-00-820-6653	33	43	5340-00-839-0098	56	19
5310-00-820-6653	34	27	5340-00-839-0098	51	8
5310-00-820-6653	35	6	5340-00-839-0098	57	20
5310-00-820-6653	48	45	5340-00-839-0095	58	18
5310-00-820-6653	48	45	5340-00-839-0098	59	38
5210-00-820-6653	66	16	5340-00-839-0098	60	11
5310-00-820-6653	66	16	5340-00-839-0098	61	24
4130-00-821-8981	83	19	5340-00-839-0098	61	40
5320-00-824-4760	71	42	5340-00-839-0098	63	27
5325-00-826-3620	6	12	5340-00-839-0098	64	8
5325-00-826-3620	61	8	5935-00-839-9681	3	22
5325-00-126-3620	62	15	5310-00-841-2041	48	28
5325-00-826-3620	66	26	5330-00-841-9289	60	41
5325-00-826-3620	67	18	5915-00-844-1066	4	8
5325-00-826-3620	61	32	5315-00-844-5836	48	18
5325-00-826-3620	68	3	5935-00-845-1141	24	3
5325-00-826-3620	68	35	6685-00-845-2190	1	7
5935-00-821-5658	3	20	5935-00-845-4517	24	2
5320-00-828-1284	54	54	5315-00-846-0126	42	3
5320-00-828-1284	59	10	5935-00-846-3883	16	5
5320-00-828-1284	60	45	5935-00-846-3883	11	6
5310-00-828-8189	48	52	5935-00-846-3883	17	14
5310-00-28-8189	49	14	5935-00-846-3883	11	14
5935-00-833-8561	16	2	5935-00-846-3883	19	5
5935-00-833-8561	16	14	5935-00-846-3883	24	17
5935-00-833-8561	11	3	5935-00-846-3884	23	6
5935-00-833-8561	17	11	5935-00-846-3884	23	16
5935-00-833-8561	17	11	5940-00-846-5012	16	4

## NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5940-00-846-5012	16	16	5950-00-883-6443	2	7
5940-00-846-5012	17	5	5305-00-889-3002	9	8
5940-00-846-5012	18	4	5310-00-891-3428	33	49
5940-00-846-5012	18	9	5330-00-891-7826	26	9
5940-00-846-5012	19	12	5920-00-892-9318	5	34
5940-00-846-5012	20	5	2530-00-893-4100	48	2
5940-00-846-5012	20	20	4730-00-896-0837	33	18
5940-00-846-5012	21	4	4730-00-896-0837	34	2
5940-00-846-5012	21	18	4730-00-896-0837	35	32
5940-00-846-5012	22	4	2590-00-896-9025	48	29
5940-00-841-5012	23	11	4710-00-896-9031	30	4
6220-00-846-1745	8	1	9320-00-897-5884	53	4
2590-00-847-0350			9320-00-897-5884	54	5
2590-00-847-0390	48	24	9320-00-897-5884	54	5
4820-00-849-1220	33	26	9320-00-897-5884	58	41
4820-00-849-1220	34	10	9320-00-897-5884	63	18
4820-00-849-1220	35	14	9320-00-897-5884	64	30
5310-00-849-6882	42	2	9320-00-897-5884	64	51
5310-00-849-6882	48	28	9320-00-s97-5884	66	27
5320-00-849-9356	63	9	9320-00-897-5884	68	2
5320-00-849-9356	67	11	9320-00-897-5884	68	21
5315-00-849-9857	46	7	9320-00-897-5884	70	23
5185-00-849-5857	47	2	9320-00-897-5884	71	2
5925-00-880-1432	1	4	9320-00-897-5884	81	2
5935-00-883-1531	3	5	2540-00-897-5981	65	7
5535-00-853-2537	4	20	5310-00-897-5920	50	37
5310-00-813-9335	29	8	5340-00-897-5928	30	2
5310-00-853-9335	44	3	2590-00-897-6049	48	1
4130-00-854-6931	30	1	9905-00-897-6055	79	3
5305-00-855-0956	53	85	9905-00-897-6055	79	3
5305-00-855-0957	72	7	5310-00-903-3993	27	10
5305-00-855-0957	72	8	5320-00-903-5543	60	48
5305-00-855-0960	4	18	5310-00-903-8282	52	6
5305-00-855-0964	7	10	5315-00-904-7407	46	3
5305-00-855-0S64	7	10	5315-00-904-1407	47	9
5305-00-855-0064	13	8	5310-00-905-0762	19	17
5305-00-855-0964	15	4	5975-00-905-1498	4	9
5305-00-855-0964	54	50	9905-00-905-4470	73	7
5305-00-855-0964	69	6	6220-00-906-0159	8	3
5305-00-855-0964	87	13	4730-00-908-3194	31	3
5305-00-855-0967	14	9	4730-00-908-3194	83	2
5305-00-885-0967	56	51	2540-00-910-8212	61	51
5305-00-855-0967	66	11	2540-00-910-8213	56	33
5305-00-855-0967	66	11	2540-00-910-8213	61	51
2590-00-856-1950			5340-00-910-9639	61	58
2590-00-856-1950	49	1	5340-00-912-4087		
2590-00-885-1952			5340-00-912-4087		
2590-00-856-1952	47	11	5340-00-912-4088		
2540-00-856-1954			5305-00-915-8087	43	3
2540-00-856-1954			5305-00-915-8087	66	4
2540-00-856-1554			4030-00-916-2141	42	14
2540-00-856-1955			5340-00-916-6539	66	27
2540-00-856-1956			5340-00-916-6539	66	22
4710-00-861-1404	30	5	5935-00-918-4176	3	2
4710-00-861-1405	30	5	5330-00-918-4183	81	17
6210-00-863-0686	3	26	2540-00-918-4184	54	27
5315-00-866-2673	54	18	2540-00-918-4184	55	15
5315-00-866-2613	54	18	2540-00-918-4184	56	8
5315-00-868-2673	55	5	2540-00-918-4184	57	11
5315-00-866-2673	57	1	2540-00-918-4184	58	21
5315-00-866-2673	58	29	2540-00-918-4184	59	41
5315-00-866-2673	58	29	2540-00-918-4184	60	14
5315-00-868-2673	59	49	2540-00-918-4184	61	27
5315-00-866-2673	60	22	2540-00-918-4184	64	11
5315-00-866-2673	64	1	2540-00-918-4191	66	12
5940-00-867-5245	8	6	2540-00-918-4191	66	12
5930-00-868-4221	2	84	2540-00-918-4191	66	12
5930-00-868-4221	5	7	2540-00-918-4194	55	22
2540-00-868-5660			2540-00-918-4194	56	27
2540-00-868-5661			2540-00-918-4194	58	33
5330-00-878-1726	68	19	2540-00-988-4194	58	33
5975-00-878-4865	5	22	2540-00-918-4194	59	24
5310-00-880-2004	40	9	5935-00-918-4205	4	16
5310-00-880-7744	6	18	5305-00-919-5070	54	9
5310-00-880-7744	48	51	5305-00-919-5070	54	9
5310-00-880-7744	49	15	5305-00-919-5070	59	14
5310-00-880-7744	66	1	5305-00-919-5070	60	36
5380-00-880-7745	50	19	5305-00-919-5070	61	2
5310-00-880-7745	5	33	5305-00-919-5070	62	2
5310-00-880-7746	50	15	5305-00-919-5070	63	3

## NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5305-00-919-5070	64	43	5305-00-958-4351	1	14
5305-00-919-5070	67	7	5305-00-958-4357	85	6
2590-00-920-7547	24	1	5305-00-958-5246	7	2
4730-00-921-3241	34	8	5305-00-958-5246	7	2
4730-00-921-3241	35	30	5305-00-958-5246	7	2
5930-00-921-7001	2	2	5310-00-959-7600	84	15
6685-00-924-2288	1	9	5305-00-964-0564	33	28
5310-00-924-4218	28	14	5305-00-964-0589	81	10
5310-00-926-5916	50	25	5305-00-964-5937	13	8
9905-00-927-9391	75	5	2540-00-964-6034		
9905-00-927-9392	75	6	5975-00-965-8334	5	23
5305-00-928-9636	51	5	2530-00-973-2355	27	7
5210-00-929-8374	72	4	2530-00-973-2356	27	7
5340-00-929-8372	66	7	5340-00-977-0815	33	27
5340-00-929-8372	66	1	5340-00-977-0885	34	17
5340-00-929-8372	66	1	5340-00-977-0875	35	21
5365-00-929-8373	56	54	5320-00-982-3815	33	3
5365-00-929-8373	59	8	5320-00-982-3815	34	30
5365-00-929-8173	60	42	5320-00-992-3815	35	34
5305-00-929-9218	66	18	5320-00-982-3815	38	15
5305-00-929-9218	66	17	5320-00-982-3815	39	14
5305-00-929-9218	66	17	5320-00-962-3815	72	7
5330-00-530-0016	11	5	5320-00-982-3815	79	7
9320-00-530-9798	66	27	5310-00-982-4908	40	18
9320-00-030-9798	68	2	5305-00-984-6195	2	16
5340-00-931-8180	55	22	5305-00-984-6210	16	21
5340-00-931-8180	56	21	5305-00-984-6210	16	21
5340-00-931-8180	58	33	5305-00-984-6210	19	25
5340-00-931-8180	59	24	5305-00-984-6210	19	25
5310-00-934-9751	66	19	5305-00-984-6210	68	18
5310-00-934-9751	66	19	5305-00-984-6210	68	37
5310-00-934-9757	2	8	5305-00-984-7342	6	8
5310-00-934-9758	16	18	2530-00-987-2565	28	5
5310-00-934-9758	16	18	5305-00-988-1170	2	13
5310-00-934-9758	16	18	5305-00-988-1723	40	21
5310-00-934-9758	16	18	5305-00-988-1725	16	21
5310-00-934-9758	19	23	5305-00-988-1725	16	21
2920-00-939-7089	24	7	5305-00-988-1725	33	13
5330-00-939-7111	53	9	5305-00-988-1725	38	13
5330-00-939-7111	54	62	5305-00-988-1725	39	21
5330-00-939-7111	54	62	5305-00-988-9265	2	13
5330-00-939-7111	55	4	5305-00-988-9265	2	13
5330-00-939-7111	56	42	5305-00-989-7435	86	10
5330-00-939-7111	57	24	2540-00-990-0499	51	2
5330-00-939-7111	58	6	5310-00-990-5322	51	23
5330-00-939-7111	59	17	7530-00-991-4342	28	5
5330-00-939-7111	60	32	5305-00-993-1851	66	21
5330-00-939-7111	61	45	5305-00-993-1851	66	21
5330-00-939-7111	62	23	5306-00-993-6257	54	49
5330-00-939-7111	63	41	5306-00-993-6257	54	48
5330-00-939-7111	64	24	5306-00-993-6257	55	27
5310-00-941-6019	72	6	5306-00-993-6257	56	32
5305-00-942-2196	33	39	5306-00-993-6257	57	35
5305-00-942-2196	44	5	5306-00-993-6257	58	38
5305-00-942-2196	65	9	5306-00-993-6257	59	29
5305-00-942-2196	65	9	5306-00-993-6257	60	31
5305-00-942-2196	65	9	5306-00-993-6257	61	57
5305-00-942-2196	65	9	5306-00-993-6257	64	40
3110-00-943-6813	50	12	1440-00-994-8975	29	13
7240-00-944-2342	13	2	9905-00-999-7369	33	5
2540-00-946-8369			9905-00-999-7369	34	31
2530-00-946-8370	33	41	9905-00-999-7369	35	35
2530-00-946-8370	34	25	9905-00-999-7369	38	17
2530-00-946-8370	35	4	9905-00-999-7369	39	15
2540-00-946-8477			9905-00-999-7369	79	6
5310-00-952-3566	65	10	9905-00-999-7370	33	4
5310-00-952-3566	65	7	9905-00-999-7370	34	34
5310-00-952-3566	65	10	9905-00-999-7370	35	38
5310-00-952-3566	65	10	9905-00-999-7370	38	16
5310-00-952-3632	60	43	9905-00-999-7310	39	16
5310-00-952-3632	62	3	9905-00-999-7370	79	8
5310-00-952-3632	67	6	2540-00-999-9451	55	9
5310-00-952-3632	84	5	2540-00-999-9451	56	4
5305-00-954-4603	65	3	2540-00-999-9451	58	17
5305-00-954-4603	65	3	2540-00-999-9451	59	37
5320-00-957-1428	6	16	2540-00-999-9451	61	23
5315-00-957-7544	26	23	6220-00-003-2497	12	7
5305-00-958-0611	56	22	6220-00-003-2497	12	1
5305-00-958-0611	57	16	5935-00-012-3080	4	7
5305-00-958-0611	61	33	5935-00-013-3757	5	19

## NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
4120-01-014-4915	33	9	5340-01-034-3852	54	12
4720-01-014-4915	35	1	5340-01-034-3852	64	46
4720-01-014-4915	3S	7	2540-01-035-0169	54	39
5935-01-017-3290	4	5	2540-01-035-0169	54	39
5975-01-018-9759	5	13	2540-01-035-0169	58	9
5975-01-020-5017	4	6	2540-01-035-0169	60	2
5975-01-020-5017	5	24	2540-01-035-0169	64	21
2540-01-023-5116	42	8	2510-01-035-0734	54	49
2540-01-024-3622	42	7	2510-01-035-8698	54	49
5320-01-028-4855	72	7	4710-01-036-1238	30	4
5320-01-028-4855	86	5	5920-01-036-5952	5	34
2810-01-028-4882	54	1	2510-01-037-4973	54	10
2510-08-028-4882	54	1	2510-01-037-4973	54	10
4730-01-029-2738	83	15	2510-01-037-4913	64	44
5950-01-029-6458	1	12	5320-01-037-6819	81	5
6625-01-029-8364	1	1	5320-01-037-6819	84	6
6625-01-030-2089	1	2	2590-01-038-1507		
2510-01-030-2423	54	10	5340-01-038-5287	54	8
2510-01-030-2423	54	10	5340-01-038-5287	54	8
2510-01-030-2423	64	44	5340-01-038-5287	64	54
5340-01-030-2844	6	14	5325-01-039-4574	16	17
5925-01-030-2959	1	18	5325-01-039-4574	38	5
5925-01-030-2960	1	13	5325-01-039-4574	39	17
5925-01-030-2960	3	11	4120-01-040-0592	35	9
5535-01-030-5043	5	15	5340-01-040-7362	54	14
5935-01-030-5043	5	16	5340-01-040-7362	54	14
5935-01-030-6240	1	6	5340-01-040-7362	64	52
5320-01-030-9997	65	2	2510-01-041-0680	54	34
2510-01-031-0063	54	35	2510-01-041-0680	58	14
2510-01-038-0063	54	35	2510-01-041-0680	60	7
2510-01-031-0063	58	12	2510-01-041-0680	64	17
2510-01-031-0063	60	5	2510-01-041-0695	54	49
2510-01-031-0063	64	18	5180-01-042-3394		
2510-01-031-4455			2590-01-043-7892		
5670-01-031-5060	58	39	9905-01-043-8002	79	4
5670-01-031-5060	64	31	9905-01-043-8002	79	4
2540-01-031-6317	65	12	9905-01-043-8003	79	5
2540-01-031-6347	65	12	9905-01-043-8003	79	5
2540-01-031-6307	65	12	6220-01-043-8025	14	1
5325-01-031-8998	6	6	6210-01-044-4064	13	1
5325-01-031-8998	54	6	5310-01-044-8360	54	11
5325-01-031-8998	54	6	5310-01-044-8360	54	1
5325-01-031-8998	61	18	5310-01-044-8360	63	4
5225-01-031-8998	62	5	5310-01-044-8360	64	45
5325-01-031-8998	63	6	2540-01-044-8745	63	17
5325-01-031-8998	64	56	2540-01-044-8748	63	17
5325-01-031-8998	67	9	2540-01-044-8928	63	34
5325-01-031-8998	67	34	2540-01-044-8929	65	1
5325-01-031-8998	68	6	2540-01-045-5630	56	48
5325-01-031-8998	68	23	2540-01-045-5630	59	2
5325-01-031-8998	70	19	2540-01-045-5630	60	37
5325-01-031-8998	71	41	5315-01-045-6509	54	32
4710-01-031-9120	30	5	5315-01-045-6509	58	16
5340-01-032-6011	54	20	5315-01-045-6509	60	9
5340-01-032-6011	54	20	2540-01-046-0367	66	6
5340-01-032-6011	58	27	2530-01-046-4695	44	14
5340-01-032-6011	60	20	2590-01-046-4882	46	1
5340-01-032-6011	64	3	2540-01-046-9404	54	24
4730-01-032-6038	35	10	2540-01-046-9404	54	24
9905-01-032-7307	75	2	2540-01-046-9404	55	9
9905-01-032-1308	75	3	2510-01-047-5404	63	13
2540-01-032-7419	66	6	2530-01-047-5405	63	13
2590-01-033-0703	49	16	2510-01-047-5406	60	46
5340-01-033-3446	54	43	5340-01-048-6634	67	30
5340-01-033-3446	54	43	5340-01-048-6635	67	29
5340-01-033-3446	55	22	2510-01-049-2969	54	49
5306-01-033-4358	54	48	5365-01-049-4399	60	44
5306-01-033-4358	54	48	2540-01-049-5162	54	59
5306-01-033-4358	58	38	2540-01-049-6350		
5306-01-033-4358	59	29	2590-01-049-6758	46	10
5306-01-033-4358	61	57	2590-01-049-6759	46	4
2510-01-034-1258	54	49	2590-01-049-6760	46	4
5306-01-034-3000	48	50	2540-01-049-8001	54	24
5306-01-034-3000	49	13	2540-01-049-8001	54	24
5340-01-034-3072	54	63	2540-01-049-8001	60	10
5340-01-034-3072	54	63	2540-01-049-8001	64	7
5340-01-034-3072	58	5	2590-01-049-8907	46	1
5340-01-034-3072	54	15	5320-01-049-9230	54	53
5306-01-034-3418	66	3	5340-01-049-9478	63	39
5340-01-034-3852	54	12	5305-01-050-1480	56	18



## NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5305-01-050-1480	57	18	2510-01-092-4051	38	6
5305-01-050-1480	61	42	2510-01-092-4051	39	11
5325-01-050-1586	16	17	7510-01-092-4058	52	9
5325-01-050-1586	16	17	2540-01-092-4052	51	20
5325-01-050-1586	33	16	2540-01-092-4053	51	17
5325-01-050-1586	33	16	2540-01-092-4054	51	15
4130-01-050-3498	33	51	2540-01-092-4055	51	15
2530-01-050-5793	48	23	2510-01-092-4059	50	84
5365-01-050-7925	56	55	5935-01-092-4121	24	13
5365-01-050-7925	59	9	3040-01-092-4125	44	2
2590-01-051-1677	14	7	2540-01-092-4133	44	10
5365-01-051-8631	72	2	5340-01-092-4139	65	12
2540-01-052-6234			2530-01-092-6385	51	18
3040-01-052-8236	48	17	2530-01-092-6386	51	19
2590-01-052-9037	46	1	1670-01-092-9236		
2590-01-053-0482	48	19	2510-01-092-9821	65	1
5310-01-053-1444	33	17	2540-01-093-0560	52	7
5310-01-053-1444	38	20	2590-01-093-0661	47	5
5310-01-053-1444	35	2	2590-01-093-4155	48	27
5210-01-053-3357	72	4	2590-01-093-4289	48	1
2590-01-053-5140	48	47	6220-01-093-4439	10	1
2590-01-054-0260	48	19	2540-01-094-9002	60	40
9905-01-054-0272	77	4	2540-01-094-9004	60	51
5330-01-054-4007	60	52	9905-01-094-9011	73	2
5330-01-054-4008	56	49	9905-01-094-9012	74	3
5330-01-054-4008	99	3	5315-01-096-3205	56	12
5330-01-054-4008	60	38	9315-01-096-3205	57	5
2510-01-051-5194	48	48	5315-01-096-3205	61	31
2590-01-005-5416	46	1	5315-01-096-3205	63	35
2510-01-056-6086	48	48	2590-01-096-3307	49	17
2510-01-058-6086	48	48	5340-01-096-7556	44	15
4010-01-058-4774	54	56	6220-01-097-8409	13	1
4010-01-059-2093	46	11	5340-01-097-9602	63	8
5340-08-088-8785			5975-01-098-0277	3	9
5340-01-061-1785			5975-01-098-0278	3	25
5340-01-061-1785			2540-01-098-1931	57	7
2540-08-061-2331	55	9	2540-01-098-1932	61	19
2540-01-061-2331	56	4	2540-01-098-1933	58	17
2540-01-061-2331	58	17	2540-01-098-1934	62	30
2540-01-061-2331	58	17	2590-01-098-1935		
2540-01-061-2331	59	37	2540-01-098-1936	64	7
2540-01-061-2331	59	37	2540-01-098-1937	67	23
2540-01-061-2331	61	23	2540-01-098-1938	67	3
5935-01-062-5625	5	28	9905-01-098-2009	16	2
4010-01-074-5029	43	11	9905-01-098-2010	76	3
2510-01-074-6764	60	35	9905-01-098-2011	13	3
5306-00-078-3958	50	34	9905-01-098-2012	73	4
5365-01-079-2267	50	16	9905-01-098-2013	76	5
4130-08-079-8821	35	2	9905-01-098-2014	77	2
4730-01-079-8821	39	6	9905-01-098-2015	77	3
5340-01-083-5527	33	27	9905-01-098-2016	73	5
5340-01-083-5527	34	19	9905-01-098-2018	85	8
5340-01-083-5527	35	21	3010-01-098-2052	58	13
2530-01-083-5600	25	2	3010-01-098-2052	64	14
4710-01-083-5636	30	5	3010-01-098-2053	58	12
2530-01-083-5418	29	12	3010-01-098-2053	58	12
2590-01-087-6292	49	9	3010-01-098-2053	59	34
2400-01-087-6980			3010-01-098-2053	59	34
2590-01-087-8833	49	11	3010-01-098-2054	58	13
2590-01-087-8634	49	11	3010-01-098-2054	58	13
2590-01-088-5903	49	10	3010-01-098-2054	59	35
2540-01-088-5905	54	31	3010-01-098-2054	59	35
2540-01-088-5905	54	31	4140-01-098-2059	86	6
2540-01-088-5905	60	6	2540-01-098-5106		
2530-01-089-9132	26	3	2540-01-098-5147		
2540-01-089-9133	65	15	2540-01-098-6738	59	11
5340-01-085-9111	66	23	2540-01-098-6739		
5340-01-089-9172	66	24	2540-01-098-6786		
5340-01-089-9172	66	24	2540-01-098-6787		
5340-01-089-9173	66	24	5340-01-098-6797	82	81
2540-01-091-7621	62	27	5340-01-098-6798	82	11
2540-01-091-7621	66	13	5340-01-099-0086	63	19
2590-01-091-7622	47	6	5340-01-099-1670	72	5
2510-01-091-7623	65	1	5340-01-099-8106	63	19
2540-01-091-1624	65	16	5340-01-099-8107	63	11
2540-01-091-7629	65	82	2540-01-100-3744	62	38
2510-01-092-4046	44	12	2590-01-100-3745	62	31
2590-01-092-4047	48	58	9905-01-100-6247	74	6
2590-01-092-4047	49	6	5306-01-100-6256	51	6
2510-01-092-4050	51	14	2540-01-101-8356	67	3

## NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
2540-01-101-8451			5935-01-112-8716	3	14
4730-01-102-3704	35	78	5320-01-112-8727	69	20
4730-01-102-3704	39	8	5320-01-113-9895	53	6
2590-01-102-9031	49	17	5320-01-113-9895	58	43
5310-01-102-9862	83	6	5320-01-113-9895	64	29
5340-01-103-1553	61	5	5320-01-113-9895	71	78
5340-01-103-1554	6	7	5340-01-114-0131	63	81
5340-01-103-1555	67	10	5340-01-117-6445	57	29
5340-01-103-1556	62	18	5325-01-117-7453	69	17
5340-01-103-1557	62	10	5325-01-117-7453	71	6
5340-01-103-1558	62	18	5307-01-118-6021	44	1
5330-01-103-1993	86	12	3040-01-120-4087	64	15
5340-01-103-3400	62	22	5925-01-120-9104	3	18
5365-01-103-3444	59	9	5330-01-120-9316	61	11
5330-01-103-5701	67	2	5330-01-120-9316	62	117
5305-01-103-5716	13	9	5330-01-120-9316	67	21
5340-01-103-8766	62	34	5330-01-120-9316	67	33
5307-01-104-5993	62	13	4010-01-121-8389	13	10
5307-01-104-5993	63	14	5310-01-122-4599	13	12
5306-01-104-9000	51	7	5340-01-122-5417	13	6
5330-01-105-2880	61	9	5325-01-123-4679	54	17
5330-01-105-2880	62	6	5325-01-123-4679	54	17
5330-01-105-2880	67	10	2590-01-124-5063		
5330-01-105-2880	67	25	5925-01-124-8483	3	17
5340-01-105-7137	81	18	5330-01-125-0939	71	3
2510-01-109-2582	45	1	5330-01-125-0940	71	45
9905-01-109-5870	85	11	5330-01-125-6276	70	5
9905-01-109-5871	85	7	5340-01-126-1359	11	7
5975-01-111-0117	2	17	5340-01-126-1677	71	44
6210-01-111-0118	14	10	5330-01-126-9674	71	37
2540-01-111-5386	71	23	5330-01-127-4032	13	5
2540-01-111-5387	63	26	5305-01-127-4209	56	47
5340-01-111-5388	70	20	5305-01-127-4209	59	1
2540-01-111-5448			5340-01-130-0150	58	44
5307-01-111-7083	44	4	5330-01-130-6348	13	4
5935-01-111-7615	3	13	5340-01-131-2303	72	5
5365-01-112-1179	72	2	4730-01-131-5951	34	7
5310-01-112-4372	69	9	5330-01-131-8176	56	39
5340-01-112-6388	58	27	5315-01-143-0639	59	28
5340-01-112-1388	58	27	2590-01-160-0731	49	17
5340-01-112-6388	59	47	2590-01-160-0732	49	17
5340-01-112-6388	59	47	4730-01-162-0623	52	5
5340-01-112-8196	63	8			

FSCM	PART NUMBER	FIGURE NO.	ITEM NO.	FSCM	PART NUMBER	FIGURE NO.	ITEM NO.
41947	A-11442	83	15	30086	EQ-P9412	1	3
07707	AD-42	67	24	30086	EQ-P9413	1	4
71400	AGC1A	5	33	30086	EQ-P9434	1	6
88044	AN426A3-7	69	10	30086	ET-2714	1	11
88044	AN426A4-8	6	5	30086	ET-2718	1	10
88044	AN426A4-8	61	17	30086	ET-4746	1	13
88044	AN426A4-8	62	4	30086	ET-4746	3	19
88044	AN426A4-8	63	5	63477	FC12088	28	7
88044	AN426A4-8	67	8	81349	FHN26G1	5	34
88044	AN426A4-8	67	35	81349	FO2A250VSA	5	32
88044	AN910-4D	83	16	82370	F24		
78500	A1-3236M1261	29	12	82370	F24	41	2
03481	A25-380	65	10	63477	F56114	32	13
03481	A25-380	65	10	71400	HKP	5	34
03481	A25-380	65	10	80837	J-1166	48	15
03481	A25-380	65	10	03499	JC4-O	1	12
40670	B-34e6715	62	22	80837	J3727-6R-G	48	19
29666	BL-10-8	83	10	60532	MAC6V60	81	16
19422	BM11399-108	33	34	89020	MD524	1	16
19422	BM11399-108	34	11	81349	MIL-R-6130ATYPE	66	27
91929	BZ-7RQIT04	2	14	81349	MIL-R-6130ATYPE	68	2
19207	CPR102321-1	35	2	81349	MIL-VV-3861	4	11
19207	CPR802321-1	39	6	81349	MILA52250	83	18
19207	CPR102321-4	35	10	81349	MILAS2767	82	5
19207	CPR104420-2	35	1	81348	MILC20696TYPE 2CLASS3	68	19
19207	CPR104420-2	39	7	81348	MILC20696 TYP2CL3	68	38
19207	CPRIC4420-3	35	9	96906	MS15001-1	4.2	4
81860	C2060-6	82	10	96906	MS15003-1	48	35
81860	C2090-6	81	15	96906	MS15570-1251		
30327	C606	33	9	96906	MS15570-1251	7	6
11419	D-8	3	1	96906	MS15570-1251	7	6
11419	D1	5	8	96906	MS15570-1251	7	6

## NATIONAL STOCK NUMBER AND PART NUMBER INDEX

FSCM	PART NUMBER	FIGURE NO.	ITEM NO.	FSCM	PART NUMBER	FIGURE NO.	ITEM NO.
96906	MS15570-1251	8	8	96906	MS20600AD4-4	70	21
96906	MS15570-1251	9	7	96906	MS20600AD4-4	71	7
96906	MS15570-1251	10	12	96906	MS20600AD4-4	71	29
96906	MS15570-623	10	5	96906	MS20605AD4W5	6	16
96906	MS15570-623	12	7	96906	MS20613-8P10	54	38
96906	MS16283-4			96906	MS20613-8P10	54	38
96906	MS16562-65	48	18	96906	MS20613-8P10	55	17
96906	MS16562-80	48	14	96906	MS20613-8P10	56	1
96906	MS16624-1050	42	5	96906	MS20613-8P10	58	8
96906	MS17169-12	48	20	96906	MS20613-8P10	58	8
96906	MS17985-415	54	55	96906	MS20613-8P10	59	30
96906	MS17985-606	54	58	96906	MS20613-8P10	60	1
96906	MS18154-113	43	3	96906	MS20613-8P10	61	20
96906	MS18154-113	66	4	96906	MS20613-8P10	63	21
96906	MS18154-58	9	13	96906	MS20613-8P10	64	22
96906	MS18154-58	10	7	96906	MS21042-3	6	7
96906	MS18154-60	33	19	96906	MS21083N08	72	6
96906	MS18154-60	44	5	96906	MS21083N18	44	7
96906	MS18154-60	65	9	96906	MS21083N4	52	6
96906	MS18154-60	65	9	96906	MS21237-N08		
96906	MS18154-60	65	9	96906	MS21245-12	44	8
96906	MS18154-60	65	9	96906	MS21313-103		
96906	MS19060-1013	50	12	96906	HS71313-124		
96906	MS19081-112	40	8	96906	MS21313-161		
96906	MS19081-137	48	7	96906	MS21313-161		
96906	MS20002-10	51	25	96906	MS21313-162		
96906	MS20002-12	51	3	96906	MS21318-47	42	12
96906	MS20002-12	51	26	96906	MS21331-2	69	9
96906	MS20002-14	51	21	96906	MS21333-100	33	14
96906	MS20066-231	26	23	96906	MS21333-100	38	14
96906	MS20292-12C91	46	3	96906	MS21333-100	19	22
96906	MS20392-12C91	47	9	96906	MS21333-104	16	20
96906	MS20426A4-7	54	7	96906	MS21333-104	16	20
96906	MS20426A4-7	54	7	96906	MS21333-104	19	22
96906	MS20426A4-7	64	55	96906	MSZ21919FIZ	16	20
96906	MS20427-8C12	83	11	96906	MS21919F12	16	20
96906	MS20470AD6-12	64	47	96906	MS21919F12	19	22
96906	MS2047CA4-2	69	20	96906	MS21919F12	19	22
96906	MS20470A4-3	70	13	96906	MS21919F12	24	4
96906	MS20470A4-4	69	22	96906	MS21919F8	24	4
96906	MS20470A4-4	70	81	96906	MS24617-47	56	17
96906	MS20470A4-4	71	11	96906	MS24617-47	61	41
96906	MS20470A4-5	78	13	96906	MS24625-43	13	8
96906	MS20470A4-5	71	32	96906	MS24625-63	56	18
96906	MS20470A4-6	68	5	96906	MS24625-63	57	18
96906	MS20470A4-6	68	24	96906	MS24625-63	61	42
96906	MS20470A4-6	70	10	96906	MS24627-30	62	28
96906	MS20470A4-6	71	38	96906	MS24627-35	56	50
96906	MS20470A5-12	72	3	96906	MS24627-35	59	4
96906	MS20470A6-8	71	12	96906	MS24627-65	63	40
96906	MS20470A6-10	69	2	96906	MS24627-66	63	38
96906	MS20470A6-12	68	9	96906	MS24627-66	65	17
96906	MS20470A6-12	68	26	96906	MS24629-36	4	18
96906	MS20470A6-6	54	13	96906	MS24629-37	14	9
96906	MS20470A6-6	54	13	96906	MS24629-37	56	57
96906	MS20470A6-6	64	48	96906	MS24629-37	66	11
96906	MS20470A6-6	68	10	96906	MS24129-37	66	11
96906	MS20470A6-6	68	10	96906	MS24629-37	66	11
96906	MS20470A6-6	68	14	96906	MS24629-46	72	7
96906	MS20470A6-6	68	31	96906	MS24629-46	72	8
96906	MS20470A6-6	86	1	96906	MS24629-47	53	1
96906	MS2047066-7	54	15	96906	MS24629-48	7	10
96906	MS20470A6-7	54	15	96906	MS24629-48	7	10
96906	MS20470A6-7	62	9	96906	MS24629-48	13	8
96906	MS20470A6-7	63	10	96906	MS24629-48	15	4
96906	MS20470A6-7	64	49	96906	MS24629-48	54	50
96906	MS20470A6-7	61	13	96906	MS24629-48	69	6
96906	MS20470A6-8	61	3	96906	MS24629-48	82	13
96906	MS20470A6-8	62	8	96906	MS24629-50	54	60
96906	MS20470A6-8	62	8	96906	MS24629-50	54	60
96906	MS20470A6-8	63	12	96906	MS24629-50	54	60
96906	MS20470A6-8	67	11	96906	MS24629-50	58	3
96906	MS20470A6-8	67	15	96906	MS24629-50	59	16
96906	MS20470A6-8	67	27	96906	MS24629-50	61	60
96906	MS20470A6-8	68	28	96906	MS24629-50	64	25
96906	MS20470A6-8	86	2	96906	MS24629-50	69	14
96906	MS20470A8-9	63	9	96906	MS24629-61	54	22
96906	MS20470A8-9	67	11	96906	MS24629-61	54	22
96906	MS20600AD4-4	6	15	96906	MS24629-70	54	2
96906	MS20600AD4-4	14	4	96906	MS24629-70	54	2
96906	MS20600AD4-4	69	18	96906	MS24629-70	54	60

## NATIONAL STOCK NUMBER AND PART NUMBER INDEX

FSCM	PART NUMBER	FIGURE NO.	ITEM NO.	FSCM	PART NUMBER	FIGURE NO.	ITEM NO.
96906	MS24662-13	60	48	96906	MS35190-289	7	2
96906	MS24662-153	33	3	96906	MS35191-274	6	8
96906	MS24662-153	34	30	96906	MS35202-55	60	39
96906	MS24662-153	35	34	96906	MS35206-242	9	8
96906	MS24662-153	38	15	96906	MS35706-247	2	16
96906	MS24662-153	39	14	96906	MS35206-263	16	21
96906	MS24662-153	72	7	96906	MS35206-263	16	21
96906	MS24662-153	79	7	96906	MS35206-263	19	25
96906	MS24662-155	54	54	96906	MS35206-263	19	25
96906	MS24662-155	59	10	96906	MS35206-263	68	18
96906	MS24662-155	60	45	96906	MS35206-263	68	37
96906	MS24662-156	54	53	96906	MS35206-279	40	21
96906	MS24662-162	53	13	96906	MS35206-281	16	21
96906	MS24662-204	72	7	96906	MS35206-281	16	21
96906	MS24662-204	86	5	96906	MS35206-281	33	13
96906	MS24662-25	53	6	96906	MS35206-281	38	13
96906	MS24662-25	58	43	96906	MS35206-281	39	21
96906	MS24662-25	64	29	96906	MS35206-284	2	13
96906	MS24662-25	71	28	96906	MS35206-286	2	13
96906	MS24662-57	84	2	96906	MS35206-286	2	13
96906	MS24665-285	56	11	96906	MS35207-241	85	9
96906	MS24665-285	57	6	96906	MS35207-242	1	14
96906	MS24665-285	61	30	96906	MS35207-242	85	6
96906	MS24665-285	63	36	96906	MS35207-264	86	10
96906	MS24665-357	43	6	96906	MS35207-267	66	21
96906	MS24665-359	66	18	96906	MS35207-267	66	21
96906	MS24665-359	66	88	96906	MS35207-309	56	22
96906	MS24665-359	66	18	96906	MS35207-309	57	16
96906	MS24665-421	46	7	96906	MS35207-309	61	33
96906	MS24665-421	47	2	96906	MS35218-84	65	3
96906	MS24665-425	46	6	96906	MS35218-84	65	3
96906	MS24665-425	47	8	96906	MS35291-061	66	4
96906	MS24665-628	42	3	96906	MS35308-364	27	11
96906	MS24667-52	44	13	96906	MS35333-38	7	9
96906	MS25002-3	85	10	96906	MS35333-38	56	56
96906	MS250043-22D	4	21	96906	MS35333-39	7	9
96906	MS25224-1	5	11	96906	MS35333-39	7	9
96906	MS27039-812	72	3	96906	MS35333-39	86	11
96906	MS27148-2	2	5	96906	MS35333-40	2	12
96906	MS27148-2	9	10	96906	MS35333-40	2	12
96906	MS27148-2	10	10	96906	MS35333-40	16	89
96906	MS27148-2	16	11	96906	MS35333-40	16	19
96906	MS27148-2	18	12	96906	MS35333-40	33	12
96906	MS27148-2	18	17	96906	MS35333-40	38	12
96906	MS27148-2	19	15	96906	MS35333-40	39	20
96906	MS27148-2	20	8	96906	MS35333-41	29	9
96906	MS27148-2	20	85	96906	MS35333-42	56	21
96906	MS27148-2	20	21	96906	MS35333-42	51	15
96906	MS27148-2	21	5	96906	MS35333-42	61	34
96906	MS27148-2	21	12	96906	MS35333-49	33	50
96906	MS27148-2	23	4	96906	MS35335-28	28	16
96906	MS27148-2	23	15	96906	MS35335-31	67	4
96906	MS27183-10	19	19	96906	MS35135-35	29	3
96906	MS27183-14	40	17	96906	MS35335-36	27	9
96906	MS27183-14	66	8	96906	MS35338-42	1	15
96906	MS27183-14	86	8	96906	MS35338-42	2	9
96906	MS27183-16	43	2	96906	MS35338-42	4	19
96906	MS27183-17	43	2	96906	MS35338-42	9	9
96906	MS27183-18	56	37	96906	MS35338-42	61	15
96906	MS27183-18	61	54	96906	MS35338-42	85	4
96906	MS27183-23	46	8	96906	MS35338-43	18	2
96906	MS27183-23	47	3	96906	MS35338-43	16	19
96906	MS27183-23	51	8	96906	MS35338-43	16	89
96906	MS27183-27	46	5	96906	MS35338-43	16	89
96906	MS27183-27	47	7	96906	MS35338-43	19	24
96906	MS27183-27	70	3	96906	MS35338-43	24	5
96906	MS27183-8	54	51	96906	MS35338-43	53	16
96906	MS3100R20-7P	3	5	96906	MS35338-43	54	64
96906	MS3100R22-22S	4	20	96906	MS35338-43	54	64
96906	MS31016R22-14P	24	9	96906	MS35338-43	58	4
96906	MS31016R22-14S	24	8	96906	MS35338-43	61	61
96906	MS3106R22-22SC	3	20	96906	MS35338-43	66	20
96906	MS3106R18-1P	3	23	96906	MS35338-43	66	20
96906	MS3106R20-7S	3	21	96906	MS35338-43	68	17
96906	MS3106R32-17S	3	22	96906	MS35338-43	68	36
96906	MS3106R22-22P	24	3	96906	MS35338-43	69	15
96906	MS3108R22-22SC	24	2	96906	MS35338-43	82	84
96906	MS35140-16	16	20	96906	MS35338-44	19	18
96906	MS35190-289	7	2	96906	MS35338-44	28	4
96906	MS35190-289	7	2	96906	MS35338-44	28	10

## NATIONAL STOCK NUMBER AND PART NUMBER INDEX

FSCM	PART NUMBER	FIGURE NO.	ITEM NO.	FSCM	PART NUMBER	FIGURE NO.	ITEM NO.
96906	MS35338-44	33	21	96906	MS35338-48	43	2
96906	MS35338-44	40	20	96906	MS35338-48	45	5
96906	MS35338-44	52	3	96906	MS35138-48	48	36
96906	MS35338-44	54	23	96906	MS35338-48	48	45
96906	MS35338-44	54	23	96906	MS35338-48	48	45
96906	MS35338-44	55	8	96906	MS35338-48	49	8
96906	MS35338-44	56	14	96906	MS35338-48	51	12
96906	MS35338-44	57	4	96906	MS35338-48	57	32
96906	MS35338-44	58	24	96906	MS35338-48	66	5
96906	MS35338-44	58	24	96906	MS35338-48	66	16
96906	MS35338-44	59	44	96906	MS35338-48	81	7
96906	MS35338-44	60	17	96906	MS35338-48	81	9
96906	MS35338-44	60	49	96906	MS35338-51	42	11
96906	MS35338-44	61	36	96906	MS35338-51	50	36
96906	MS35338-44	63	25	96906	MS35338-51	51	9
96906	MS35338-44	64	6	96906	MS35338-52	26	14
96906	MS35338-44	65	11	96906	MS35338-53	50	42
96906	MS35338-44	65	11	96906	MS35340-51	50	3
96906	MS35338-44	65	11	96906	MS35340-51	50	39
96906	MS35338-44	65	11	96906	MS35340-51	66	16
96906	MS35338-44	71	40	96906	MS35340-51	66	16
96906	MS35238-44	81	4	96906	MS35387-1	72	9
96906	MS35358-44	81	12	96906	MS35387-1	72	9
96906	MS35338-44	82	8	96906	MS35387-2	72	9
96906	MS35338-44	84	3	96906	MS35387-2	72	9
96906	MS35338-44	84	16	96906	MS35420-8	7	11
96906	MS35338-45	6	19	96906	MS35420-2	7	11
96906	MS35238-45	8	14	96906	MS35421-1	7	4
96906	MS35338-45	26	21	96906	MS35421-8	7	4
96906	MS35338-45	32	2	96906	MS35421-2	7	4
96906	MS35338-45	50	7	96906	MS35421-2	7	4
96906	MS35338-45	65	2	96906	MS35423-1	7	1
96906	MS35338-45	65	2	96906	MS35423-1	7	1
96906	MS35338-45	66	2	96906	MS35423-2	7	1
96906	MS35338-45	81	20	96906	MS35423-2	7	1
96906	MS35338-46	9	14	96906	MS35424-1	7	1
96906	MS35338-46	10	6	96906	MS35424-2	7	1
96906	MS35338-46	15	5	96906	MS35425-37	70	7
96906	MS35338-46	30	7	96906	MS35425-37	71	25
96906	MS35238-46	31	8	96906	MS35425-39	61	13
96906	MS35338-46	33	29	96906	MS35425-39	62	19
96906	MS35338-46	33	38	96906	MS35425-39	63	20
96906	MS35338-46	34	22	96906	MS35425-39	67	20
96906	MS35338-46	35	24	96906	MS35425-39	70	22
96906	MS35338-46	36	10	96906	MS35425-41	48	52
96906	MS35338-46	37	3	96906	MS35425-41	49	14
96906	MS35338-46	43	12	96906	MS35426-13	69	8
96906	MS35338-46	44	6	96906	MS35436-6	24	12
96906	MS35338-46	48	56	96906	MS35436-6	24	15
96906	MS35338-46	49	4	96906	MS35438-8	23	5
96906	MS35338-46	54	28	96906	MS35478-1073		
96906	MS35338-46	54	41	96906	MS35478-1073	11	4
96906	MS35338-46	54	41	96906	MS35478-1683		
96906	MS35338-46	55	11	96906	MS35478-1683	9	4
96906	MS35338-46	55	20	96906	MS35478-1683	10	4
96906	MS35338-46	56	9	96906	MS35478-1683	12	7
96906	MS35338-46	56	25	96906	MS35478-1683	12	7
96906	MS35338-46	57	12	96906	MS35489-102	33	10
96906	MS35338-46	57	27	96906	MS35489-105	34	29
96906	MS35318-46	58	22	96906	MS35489-105	35	33
96906	MS35338-46	58	31	96906	MS35489-105	39	18
96906	MS35330-46	58	31	96906	MS35489-109	16	17
96906	MS35338-46	59	22	96906	MS35489-15	16	17
96906	MS35338-46	59	42	96906	MS35489-15	16	17
96906	MS35338-46	60	15	96906	MS35489-15	16	17
96906	MS35338-46	60	24	96906	MS35489-15	19	16
96906	MS35338-46	61	28	96906	MS35489-51	16	17
96906	MS35338-46	61	49	96906	MS35489-51	16	17
96906	MS35338-46	63	32	96906	MS35489-51	16	17
96906	MS35338-46	64	13	96906	MS35489-51	16	17
96906	MS35338-46	64	33	96906	MS35489-51	19	16
96906	MS35338-46	65	5	96906	MS35489-71	16	17
96906	MS35338-46	65	5	96906	MS35489-72	33	44
96906	MS35338-46	65	5	96906	MS35489-80	16	17
96906	MS35338-46	65	5	96906	MS35489-80	16	17
96906	MS35338-46	66	5	96906	MS35489-80	16	17
96906	MS35338-46	66	9	96906	MS35489-80	19	16
96906	MS35338-46	66	9	96906	MS35490-61	33	10
96906	MS35338-46	66	9	96906	MS35490-61	33	10
96906	MS35338-47	82	2	96906	MS35490-61	33	10'

## NATIONAL STOCK NUMBER AND PART NUMBER INDEX

FSCM	PART NUMBER	FIGURE NO.	ITEM NO.	FSCM	PART NUMBER	FIGURE NO.	ITEM NO.
96906	MS35490-61	33	10	96906	MS35917-5	83	3
96906	MS35490-61	38	5	96906	MS39171-7	34	9
96906	MS35647-3			96906	MS39179-2	35	29
96906	MS35647-3			96906	MS39179-2	38	7
96906	MS35647-3			96906	MS39879-2	39	9
96906	MS35649-202	16	18	96906	MS39179-5	33	6
96906	MS35649-202	16	18	96906	MS39179-5	33	48
96906	MS35649-202	16	18	96906	MS39179-5	34	3
96S06	MS35649-202	16	18	96906	MS39179-5	35	8
96906	MS35649-202	19	23	96906	MS39179-5	38	1
96906	MS35649-82	2	8	96906	MS39179-5	39	5
96906	MS35650-302	66	19	96906	MS39179-7	35	20
96906	MS35650-302	66	19	96906	MS39182-3	33	8
96906	MS35671-64	48	12	96906	MS39182-3	35	31
96S06	MS35677-46	54	36	96906	MS39182-6	35	7
96906	MS35677-46	54	36	14397	MS39187-2	33	14
96906	MS35677-46	58	11	30327	MS39187-2	38	17
96906	MS35677-46	58	11	96906	MS39188-1	34	8
96906	MS35677-46	59	33	96906	MS39188-1	35	30
96906	MS35677-46	59	33	96906	MS39185-2	33	18
96906	MS35677-46	60	4	96906	MS39188-2	34	2
96906	MS35677-46	64	19	96906	MS39188-2	35	32
96906	MS35677-48	54	18	96906	MS39188-3	35	11
96906	MS35677-48	54	18	96906	MS39190-3	38	9
96906	MS35677-48	55	5	96906	MS39190-3	39	24
96906	MS35677-48	51	1	96906	MS39190-5	34	7
96906	MS35677-48	58	29	96906	MS39231-4	33	33
96906	MS35677-48	58	29	96906	MS39231-4	34	14
96906	MS35677-48	59	49	96906	MS39231-4	35	17
96906	MS35677-48	60	22	96906	MS39231-4	39	13
96906	MS35677-48	64	1	96906	MS39232-2	34	6
96906	MS35677-49	54	33	96906	MS39733-4	33	46
96906	MS35677-49	58	15	96906	MS39233-4	34	33
96906	MS35677-49	59	36	96906	MS39233-4	35	36
96906	MS35677-49	59	36	96906	MS51095-372	33	28
96906	MS35677-49	60	8	96906	MS51095-416	81	10
96906	MS35677-49	64	16	96906	MS51806-463	66	17
96906	MS35691-13	29	8	96906	MS51106-463	66	17
96906	MS35691-13	44	3	96906	MS51106-463	66	17
96906	MS35692-77	33	49	96906	MS51302-1	8	1
96906	MS35692-33	48	28	96906	MS51335-1	42	1
96906	MS35692-94	42	2	96906	MS51335-1	42	11
96906	MS35692-94	48	28	96906	MS51375-1		
96906	MS35743-91	50	31	96906	MS51375-1	41	4
96906	MS35746-1	33	1	96906	MS51377-1		
96906	MS35746-1	33	32	96906	MS51377-1	41	3
96906	MS35746-1	34	15	96906	MS51811-4	34	24
96906	MS35746-1	35	16	96906	MS51811-4	38	3
96906	MS35746-1	38	18	96906	MS51845-7	71	8
96906	MS35746-1	39	1	96906	MS51846-58	83	17
96906	MS35751-71	54	42	96906	MS51861-15	53	10
96906	MS35751-71	54	42	96906	MS51861-15	58	40
96906	MS35751-71	55	21	96906	MS51868-25	73	1
96906	MS35751-71	56	26	96906	MS51661-25	73	1
96906	MS35751-71	58	30	96906	MS51861-25	73	1
96906	MS35751-71	58	30	96906	MS51861-25	74	1
96906	MS35751-71	59	23	96906	MS51861-25	75	4
96906	MS35751-71	60	23	96906	MS51861-25	71	2
96906	MS35751-71	64	34	96906	MS51861-25	78	2
96906	MS35751-71	86	9	96906	MS51861-27	2	1
96906	MS35751-77	54	48	96906	MS51861-36	61	14
96906	MS35751-77	54	48	96906	MS51861-36	67	5
96906	MS35751-77	55	27	96906	MS51861-37	7	10
96906	MS35751-77	56	32	96906	MS51861-37	62	28
96906	MS35751-77	57	35	96906	MS51861-37	66	11
96906	MS35751-77	58	38	96906	MS51861-31	66	11
96906	MS35751-77	59	29	96906	MS51861-37	66	11
96906	MS35151-77	60	31	96906	MS51861-45	64	25
96906	MS35151-77	61	57	96906	MS51861-45	71	43
96906	MS35751-77	64	40	96906	MS51861-45	72	8
96906	MS35751-84	55	27	96906	MS58861-45	73	6
96S06	MS35751-84	60	31	96906	MS51861-45	74	4
96906	MS35156-15	48	13	96906	MS51861-45	75	1
96906	MS35782-5	33	26	96906	MS51861-45	76	1
96906	MS35782-5	34	80	96906	MS51861-45	77	1
96906	MS35782-5	35	14	96906	MS51861-45	79	1
96906	MS35810-38	46	9	96906	MS51861-45	79	1
96906	MS35810-38	47	1	96906	MS51861-45	80	2
96906	MS35842-11	31	3	96906	MS51861-47	72	8
96906	MS35842-11	83	2	96906	MS51861-49	11	3

## NATIONAL STOCK NUMBER AND PART NUMBER INDEX

FSCM	PART NUMBER	FIGURE NO.	ITEM NO.	FSCM	PART NUMBER	FIGURE NO.	ITEM NO.
96906	MS51861-49	24	6	96906	MS51967-8	33	31
96906	MS51861-49	55	1	96906	MS51967-8	37	2
96906	MS51861-49	55	1	96906	MS51967-8	48	57
96906	MS51861-49	56	43	96906	MS51967-8	49	5
96906	MS51861-49	56	43	96906	MS51967-8	50	6
96906	MS51861-49	57	21	96906	MS51967-8	50	32
96906	MS51861-49	58	1	96906	MS51967-8	54	40
96906	MS51861-49	58	1	96906	MS51967-8	54	40
96906	MS51861-49	59	18	96906	MS51967-8	55	19
96906	MS51861-49	60	33	96906	MS51967-8	56	24
96906	MS51861-49	61	43	96906	MS51967-8	57	26
96906	MS51861-66	66	11	96906	MS51967-8	58	32
96906	MS51861-66	66	11	96906	MS51967-8	58	32
96906	MS51861-66	72	8	96906	MS51967-8	59	21
96906	MS51861-69	55	7	96906	MS51967-8	60	25
96906	MS51861-69	56	13	96906	MS51967-8	61	50
96906	MS51861-69	56	41	96906	MS51967-8	64	32
96906	MS51861-69	57	3	96906	MS51967-8	65	4
96906	MS51861-69	58	25	96906	MS51967-8	65	4
96906	MS51861-69	58	25	96906	MS51967-8	65	4
96906	MS51861-69	59	45	96906	MS51967-8	65	4
96906	MS51861-69	60	18	96906	MS51967-8	66	10
96906	MS51861-69	61	37	96906	MS51968-11	50	19
96906	MS51861-69	63	24	96906	MS51968-11	57	33
96906	MS51861-69	64	5	96906	MS51968-12	50	75
96906	MS51861-70	57	19	96906	MS51968-14	45	4
96906	MS51862-25	12	3	96906	MS51968-14	48	46
96906	MS51862-25	13	14	96906	MS51968-14	48	46
96906	MS51862-28	12	3	96906	MS51968-14	49	2
96906	MS51862-28	12	3	96906	MS51968-14	66	15
96906	MS51862-28	13	14	96906	MS51968-2	52	4
96906	MS51862-28	14	8	96906	MS51968-20	33	42
96906	MS51862-58	62	29	96906	MS51968-20	34	26
96906	MS51922-37	56	36	96906	MS51968-20	35	5
96906	MS51922-37	61	53	96906	MS51968-20	48	46
96906	MS51922-49	51	24	96906	MS51968-20	48	46
96906	MS51922-5	84	15	96906	MS51968-23	50	2
96906	MS51922-57	42	16	96906	MS51968-23	51	10
96906	MS51922-57	51	4	96906	MS51968-23	66	15
96906	MS51922-57	51	27	96906	MS51968-23	66	15
96906	MS51922-65	51	22	96906	MS51968-23	66	15
96906	MS51937-8	42	18	96906	MS51968-5	50	15
96906	MS51939-2	66	22	96906	MS51968-8	28	15
96906	MS51939-2	66	22	96906	MS51968-8	28	15
96906	MS51946-1	40	14	96906	MS51968-8	30	6
96906	MS51946-2	40	14	96906	MS51968-8	31	7
96906	MS51953-151	11	5	96906	MS51968-8	34	23
96906	MS51959-46	8	11	96906	MS51968-8	35	23
96906	MS51963-64	54	45	96906	MS51968-8	36	9
96906	MS51963-64	55	24	96906	MS51968-8	61	62
96906	MS51963-64	56	29	96906	MS51968-8	66	10
96906	MS51963-64	58	36	96906	MS51968-8	66	10
96906	MS51963-64	59	26	96906	MS58968-8	66	10
96906	MS51963-64	60	29	96906	MS51970-1	28	14
96906	MS51963-14	64	37	96906	MS51970-4	21	10
96906	MS51967-14	43	1	96906	MS51983-3	40	9
96906	MS51967-14	51	18	96906	MS51989-104-10	70	8
96906	MS51967-14	81	8	96906	MS51989-104-10	71	24
96906	MS51967-2	2	11	96906	MS52127-2		
96906	MS51967-2	2	11	96906	MS521301A204120	31	2
96906	MS51967-2	2	11	96906	MS53004-1	37	1
96906	MS51967-2	16	18	96906	MS53004-1	37	1
96906	MS51967-2	16	18	96906	MS53007-1	33	4
96906	MS51967-2	28	3	96906	MS53007-1	34	34
96906	MS51867-2	33	11	96906	MS53007-1	35	38
96906	MS51967-2	33	20	96906	MS53007-1	38	16
96906	MS51967-2	38	11	96906	MS53007-1	39	16
96906	MS51967-2	39	19	96906	MS53001-1	79	8
96906	MS51967-2	43	13	96906	MS53007-2	33	5
96906	MS51967-2	71	39	96906	MS53007-2	34	31
96906	MS51867-2	81	13	96906	MS53001-2	35	35
96906	MS51867-2	82	9	96906	MS53007-2	38	IT
96906	MS51867-20	66	15	96906	MS53007-2	39	15
96906	MS51867-20	66	15	96906	MS53007-2	19	6
96906	MS51867-3	19	7	96906	MS53047-1	9	2
96906	MS51867-5	6	88	96906	MS53068-8	40	10
96906	MS51967-5	48	51	96906	MS53068-2	40	10
96906	MS51967-5	49	15	96906	MS75021-2	23	16
96906	MS51967-5	66	1	96906	MS87006-53	42	14
96906	MS51967-8	33	30	96906	MS90725-10	65	13

## NATIONAL STOCK NUMBER AND PART NUMBER INDEX

FSCM	PART NUMBER	FIGURE NO.	ITEM NO.	FSCM	PART NUMBER	FIGURE NO.	ITEM NO.
96906	MS90725-10	65	13	96906	MS90728-38	81	19
96906	MS90725-10	65	13	96906	MS90728-63	37	4
96906	MS90725-10	65	13	96906	MS90728-66	48	5-
96906	MS90725-10	71	20	96906	MS90728-66	49	3
96906	MS90725-10	81	3	96906	MS90728-9	70	18
96906	MS90725-109	43	3	70903	MW-C84(41)B9		
96906	MS90725-109	51	16	70903	MW-C16(26)B9		
96906	MS90725-113	66	4	81349	M13486-1-12		
96906	MS90725-113	81	6	81349	M13486-1-5		
96906	MS90725-12	82	1	88349	M24243-1-F402	2	1
96906	MS90725-14	19	20	81349	M24243-1B408	71	42
96906	MS90725-31	26	22	88349	M8805-1-024	5	7
96906	MS90725-31	32	3	49367	N-FCR28	5	20
96906	MS90725-36	6	20	80205	NAS1022A17	48	4
96906	MS90725-5	84	9	92026	QB	62	26
96906	MS90725-6	81	14	92026	Q8	66	14
96906	MS90725-6	84	4	56365	Q0115	5	31
96906	MS90725-62	33	28	30086	Q230	1	5
96906	MS90725-62	54	48	81348	RRC271BTY2C8201AO72	42	13
96906	MS90725-62	54	48	11419	S2	5	82
96906	MS90725-62	56	26	11419	S5	5	13
96906	MS90725-62	56	32	11419	S7	5	22
96906	MS90725-62	57	28	11419	S72	4	6
96906	MS90725-62	57	35	11419	S72	5	24
96906	MS90725-62	59	29	11419	S78	5	21
96906	MS90725-62	61	48	11419	S82	5	23
96906	MS90725-64	58	38	85434	S911B	26	16
96906	MS90725-64	58	38	81348	WC375/13-006	5	30
96906	MS90725-64	58	38	81348	WC596/40-1	5	15
96906	MS90725-64	59	29	81348	WC596/40-1	5	16
96906	MS90725-64	60	31	81349	WC596/46-1	5	19
96906	MS90725-64	64	40	10109	WM3330-1	58	39
96906	MS90725-66	56	32	10109	WM3331	53	18
96906	MS90725-66	59	29	70109	WM3331	64	31
96906	MS90725-8	60	50	81348	ZZ-T-381M/GROUP3/9.00-20/O/TBCC		
96906	MS90725-92	82	1	81348	ZZ-T-381M/GROUP3/9.00-20/D/TBCC	41	1
96906	MS90725-10	52	8	08108	10C7DC	14	6
96906	MS90726-113	48	37	30321	1013	83	7
96906	MS90726-113	48	44	56442	1014M5	35	13
96906	MS90726-114	49	18	19207	10869558	30	2
96906	MS90726-115	83	4	89207	10869564	25	1
96906	MS90726-121	48	43	19207	10869572	50	23
96906	MS90726-162	48	44	19207	10869934	50	37
96906	MS90726-162	66	17	19207	10882134	66	24
96906	MS90726-162	66	17	19207	10882134	66	24
96906	MS90726-170	48	43	19207	10882135	66	23
96906	MS90726-187	50	49	19207	10882136	54	9
96906	MS90726-189	66	17	19207	10882136	54	9
96906	MS90726-29	8	15	19207	10882136	59	14
96906	MS90726-4	84	11	19207	10882136	60	36
96906	MS90726-46	50	17	19207	10882136	61	2
96906	MS90726-6	52	10	19207	10882136	62	2
96906	MS90726-60	28	17	19207	10882136	63	3
96906	MS90726-60	34	20	19207	10882136	64	43
96906	MS90726-60	35	25	19207	10887136	61	7
96906	MS90726-60	36	11	19207	10882157		
96906	MS90726-62	30	8	19207	10882157-1		
96906	MS90726-64	28	17	19207	108828 90	48	53
96906	MS90726-64	28	17	19207	10882193	79	3
96906	MS90726-74	35	26	19207	10882193	19	3
96906	MS90727-109	66	17	19207	10882198		
96906	MS90727-113	45	6	19207	10882198	49	1
96906	MS90727-128	56	38	19207	10882199	65	6
96906	MS90727-128	57	34	19207	10882199	65	6
96906	MS90727-128	61	56	19207	10882200	65	7
96906	MS90727-172	51	29	19207	10882201	54	46
96906	MS90727-192	44	9	19207	10882201	55	25
96906	MS90727-199	51	5	19207	10882201	56	30
96906	MS90727-57	29	2	19207	10882201	58	35
96906	NS90727-58	54	29	19207	10882201	59	27
96906	MS90727-58	55	10	19207	10882201	61	55
96906	MS90727-58	56	10	19207	10882202	54	46
96906	MS90727-58	57	13	19207	10882202	55	25
96906	MS90727-58	58	23	19207	10882202	56	30
96906	MS90727-58	59	43	19207	10882202	56	35
96906	MS90727-58	60	16	19207	10882202	58	35
96906	MS90727-58	61	29	19207	10882202	59	27
96906	MS9C727-58	63	31	19207	10882202	60	28
96906	MS90727-58	64	12	19207	10882202	61	55
96906	MS90727-74	34	21	19207	10882202	64	38



## NATIONAL STOCK NUMBER AND PART NUMBER INDEX

FSCM	PART NUMBER	FIGURE NO.	ITEM NO.	FSCM	PART NUMBER	FIGURE NO.	ITEM NO.
19207	10882207	65	6	19207	10896741	26	1
19207	10882207	65	6	19207	10897070		
19207	10882215	48	47	19207	10900549	48	1
19207	10882216	48	48	19207	10900552	48	19
19207	10882220	48	48	19207	10900554	48	38
19707	10882220	48	48	19207	10900555	48	2
19207	10882243	61	51	19207	10900556	48	58
19207	10882244	56	33	19207	10900556	49	6
19207	10882244	61	51	19207	10906769	48	1
19207	10882274	16	1	19207	10906770	41	1
19207	10882275	20	9	19207	10906776	53	4
19207	10882285	66	3	19207	10906776	54	5
19207	10882369	55	9	19207	10906776	54	5
19207	10882369	56	4	19207	10906776	58	41
19207	10882369	58	17	19207	10906776	63	88
19207	10882369	59	37	19207	10906776	64	30
19207	10882369	61	23	19207	10906776	64	57
19207	10882479-1	81	5	19207	10906776	66	27
19207	10882479-1	84	6	19207	10906776	68	2
19207	10882479-2	54	11	19207	10906776	68	21
19207	10882479-2	54	11	19207	10906776	70	23
19207	10882479-2	63	4	19207	10906776	71	2
19207	10882479-2	64	45	19207	10906776	81	2
19207	10882483-1	67	30	19207	10906797	16	17
19207	10882483-2	67	29	19207	80906797	38	5
19207	10882484	54	19	19207	10906797	39	17
19207	10882484	54	19	19207	10906798	16	17
19207	10882484	55	6	19207	10906798	16	17
19207	10882484	56	15	19207	10906798	33	16
19207	10882484	57	2	19207	10906798	33	16
19207	10882484	58	28	19207	10907011	83	6
19207	10882484	58	28	19207	10907027	57	29
19207	10882484	59	48	19207	10907028	57	30
19207	10882484	60	21	19207	10907029	57	31
19207	10882484	61	38	19207	10907044-2	63	16
19207	10882484	64	2	19207	10907044-3	69	25
19207	10891417	33	17	19207	10907044-3	70	14
19207	10891417	38	20	19207	10907044-3	71	18
19207	10891417	39	2	19207	10907044-3	71	35
19207	10891462			19207	10907044-4	54	17
19207	10891478	16	1	19207	10907044-4	54	17
19207	10891482	55	9	19207	10907044-5	6	12
19207	10891482	56	4	19207	10907044-5	61	8
19207	10891482	58	17	19207	10907044-5	62	15
19207	10891482	58	17	19207	10907044-5	66	26
19207	10891482	59	37	19207	10907044-5	67	18
19207	10891482	59	37	19207	10901044-5	67	32
19207	10891482	61	23	19207	10907044-5	68	3
19207	10891492	56	48	19207	10907044-5	68	35
19207	10891492	59	2	19207	10907045-1	64	50
19207	10891492	60	37	19207	10907045-1	68	4
19207	10891493	56	49	19207	10900T45-1	68	34
19207	10891493	59	3	19207	10907045-5	62	14
19207	10891493	60	38	19207	10907045-5	67	18
19207	10891494	56	55	19207	10907045-5	67	31
19207	10891494	59	9	19207	10911036-1	54	27
19207	10891495	56	54	19207	10911036-1	55	85
19207	10891495	59	8	19207	10911036-1	63	30
19207	10891495	60	42	19207	10911036-1	64	11
19207	10891496	56	52	19207	10911036-2	54	27
19207	10891496	59	6	19207	10911036-2	55	15
19207	10891499-1	55	2	19207	10911036-2	56	8
19207	10891499-1	56	44	19207	10911036-2	57	11
19207	10891499-2	55	2	19207	10911036-2	58	21
19207	10891499-2	58	2	19207	10911036-2	59	41
19207	10891499-2	58	2	19207	10911036-2	60	14
19207	10891499-2	59	19	19207	10911036-2	61	27
19207	10891499-2	60	34	19207	10911036-2	64	11
19207	10891499-2	64	26	19207	10916537		
19207	10891502	56	51	19207	10916537		
19207	10891502	59	5	19207	10916537		
19207	10891504	56	34	19207	10920175	73	2
19207	10891504	61	52	19207	10920231	56	45
19207	10891506	60	40	19207	10920231	57	22
19207	10891528	66	6	19207	10920231	61	47
19207	10891529	66	6	19207	10920252	56	20
19207	10896684	26	9	19207	10920252	57	17
19201	10896688	50	40	19207	10920252	61	35
19207	10896695	26	18	19207	10920274	56	12
19207	10896120	26	17	19207	10920274	57	5

## NATIONAL STOCK NUMBER AND PART NUMBER INDEX

FSCM	PART NUMBER	FIGURE NO.	ITEM NO.	FSCM	PART NUMBER	FIGURE NO.	ITEM NO.
19207	10920274	61	31	19207	11592566	60	3
19207	10920274	63	35	19207	11592566	61	22
19207	10920372	57	14	19207	11592566	63	23
19207	10922418	64	51	19207	11592566	64	20
19207	10923325	73	7	19207	11607452	60	39
19207	10923539	12	1	19207	11607480	54	47
19207	10923539	12	1	19207	11607480	55	26
19207	10923836	33	51	19707	11607480	56	31
19207	10944310	14	7	19207	11607480	58	34
19207	10944311	60	41	19207	11607480	59	28
18876	10944341	65	8	19207	11607480	60	27
19207	10945045	35	19	19207	11607480	64	39
17773	11241706-2	83	20	19207	11607487	54	44
17773	11242067-7	83	13	19207	11607487	55	23
89315	1141			19207	11607487	56	28
19207	11589880	60	51	19207	11607487	58	37
19207	11589881	60	52	19207	11607487	59	25
19207	11589882	60	41	19207	11607487	60	30
19207	11589883	60	46	19207	11607487	64	36
19207	11589885	60	44	19207	11601504	54	43
19207	11589889	48	50	19207	11607504	54	43
19207	11589899	49	13	19207	11607904	55	72
19207	11589900	54	35	19207	11601505	54	43
19207	11589900	54	35	19207	11607505	94	43
19207	11589900	58	12	19207	11607505	58	33
19207	11588900	60	5	19207	11601505	60	26
19207	11588900	64	18	19207	11607505	64	35
19207	11589901	54	34	19207	11607611-1	60	35
19207	11589901	58	14	19207	11609331	26	10
19207	11589901	60	1	19207	11609338	26	11
19207	11588901	64	17	19207	11609419	26	12
19207	11585902	54	21	19207	11614157	10	1
19207	11585902	54	21	19207	11631743	54	65
19207	11589902	58	26	19207	11611743	54	65
19207	11589902	58	26	19207	11631743	64	53
19207	11589902	58	26	19207	11637879	83	14
19207	11589902	59	46	19207	11637943	54	20
19207	11589902	59	46	19207	11637943	54	20
19207	11589902	60	19	19207	11637943	58	21
19207	11589902	64	4	19207	11637943	60	20
19207	11589919	65	1	19207	11637943	64	3
19207	11592441	63	39	19207	11637970	54	39
19207	11592443-1	62	13	19207	11637970	54	39
19207	11592443-1	63	14	19207	11637910	58	9
19207	11552447	74	5	19207	11637970	60	2
19207	11592461	53	9	19207	11637970	64	21
19207	11592461	54	62	19207	11637989	54	32
19207	11592461	54	62	19207	11637989	58	16
19207	11592461	55	4	19207	11637989	60	9
19207	11592461	56	42	19207	11637990	54	31
19207	11592461	57	24	19207	11637990	54	31
19207	11592461	58	6	19207	11637990	60	6
19207	11592461	59	17	19207	11637991-8	54	24
19207	11592461	60	32	19207	11637991-1	54	24
19207	11592461	61	45	19207	11637991-1	60	10
19207	11592461	62	23	19207	11637991-1	64	7
19207	11592461	63	41	19207	11637991-2	54	24
19207	11592461	64	24	19207	11637991-2	54	24
19207	11592524	63	17	19207	11637991-2	55	9
19207	11592525	63	8	19207	11638000	78	4
19207	11592526	63	13	19207	11638024		
19207	11592527-1	63	19	19207	11638161	72	1
19207	11592521-2	63	11	19207	11638168	72	4
19207	11592528	63	17	19207	11638169	72	5
19207	15892529	63	8	19207	11638870	72	2
19207	11592530	63	13	19207	11638119-3	55	3
19207	11592530-1	63	19	19207	11638182	79	5
19207	11592531-2	63	11	19207	11638182	79	5
19207	11592551	63	34	19207	11638183	79	4
19207	11592552	54	4	19207	11638183	79	4
19207	11592552	54	4	19207	11639519-2	10	3
19207	11592552	63	7	19207	11639520	10	11
19207	11592552	64	42	19207	11639535	10	2
19207	11592566	54	37	19207	11646058	5	27
19207	11592566	54	31	19207	11646100	5	28
19207	11592566	55	16	19207	11646236	78	3
19207	11592566	56	3	19207	11646244		
19207	11592566	58	10	19207	11646249		
19207	11592566	58	10	19207	11646252		
19207	11592566	59	32	19207	11646302-1	65	6

## NATIONAL STOCK NUMBER AND PART NUMBER INDEX

FSCM	PART NUMBER	FIGURE NO.	ITEM NO.	FSCM	PART NUMBER	FIGURE NO.	ITEM NO.
19207	11646302-1	65	6	19207	11681645	76	3
19207	11646302-2	65	6	19207	11681646	76	4
19207	11646302-2	65	6	19207	11681647	76	5
19207	11646331	77	4	19207	11681673-1	49	17
19207	11646333	65	15	19207	11681673-2	49	11
19207	11646359	54	49	19207	11681614-1	49	11
19207	11646385-1	54	61	19207	11681674-2	49	11
19207	11646385-2	54	61	19207	11682834	70	12
19207	11646386	54	59	40670	11682835	70	9
19207	11646389	54	57	19207	11682836	70	17
19207	11646393	54	56	40670	11682837	70	20
19207	11646402			40670	11682838	70	16
19207	11665871	48	23	19207	11682840	71	19
19207	11668010	22	11	40670	11682842	71	44
19207	11668011	22	10	40670	11682843	71	23
19207	11668049	83	19	19207	11682844	71	26
19207	11668361	36	1	40670	11682846	71	27
19207	11681178	54	63	19207	11682847	71	30
19207	11681178	54	63	19207	11682848	71	31
19207	11681178	58	5	40670	11682849-1	71	36
19207	11681178	59	15	40670	11682849-2	71	33
19207	11681226			40670	11682850	71	37
19207	11681234	21	8	19207	11682851	71	22
19207	11681236	17	1	40670	11682852	71	45
19207	11681231	23	12	19207	11682880	70	1
19207	11681240	52	1	19207	11682887	70	4
19207	11681241	77	2	40670	11682888	70	2
19207	11681242	77	3	40670	11682889	70	5
19207	11681247			19207	11682931	63	37
19207	11681251	45	1	19207	11682936	64	23
19207	11681253	45	3	19207	11682936	64	27
19207	11681254	45	2	40670	11682942	64	15
19207	11681260	22	1	19207	11682943	58	11
19207	11681267	46	10	19207	11682943	64	14
19207	11681211-1	46	4	19207	11682948-1	58	20
19207	11681271-2	46	4	19207	11682948-2	58	19
19207	11681272-1	46	1	19207	11682948-3	63	29
19207	11661272-2	46	1	19207	11682948-4	63	33
19207	11681273			19207	11682948-5	63	28
19207	11681273			19207	11682949	58	IT
19207	11681273			19207	11682950	58	Z
19207	11681277	65	12	19207	11682953	58	7
19207	11681277	65	12	19207	11682959	53	8
19207	11681277	65	12	19207	11682962	63	17
19207	11681343	65	12	40670	11682963	63	8
19207	11681399	54	12	19207	11682964	63	13
19207	11681399	54	12	40670	11682965	63	11
19207	11681399	64	46	19207	11682966	63	1
19207	11618400-1	54	10	19207	11682967	63	1
19207	11681400-1	54	10	19207	11682968	63	1
19207	11681400-1	64	44	40670	11682919	63	26
19207	11681400-2	54	10	19207	11682985	64	7
19207	11681400-2	54	10	19207	11682988	63	2
19207	11681400-2	64	44	19207	11682989	63	2
19207	11681403	54	1	19207	11682990	63	2
19207	11681403	54	1	19207	11682999-1	83	5
19207	11681407	54	14	19207	11682999-2	83	9
19207	11681407	54	14	19207	11683001	83	8
19207	11681407	64	52	19207	11683801	84	12
19207	11681430-1	54	49	19207	11683011	84	8
19207	11681430-2	54	49	19207	11683017	6	1
19207	11681432	54	8	19207	11683020	84	7
19201	11681432	54	8	19207	11683026	84	1
19207	11681432	64	54	19207	11683027	84	11
19207	11681434	54	3	19207	11683029	84	19
19207	11681434	54	3	19207	11683030	84	10
19207	11681434	64	41	19207	11683043	53	5
19207	11681435			19207	11683043	58	42
19207	11681442	17	9	19207	11683043	64	27
19207	11681452	73	5	19207	11683044	53	7
19207	11681453	80	1	19207	11683044	64	28
19207	11681464	79	2	40670	11683044	58	44
19207	11681466			19207	11683046	69	1
19207	11681530	49	16	19207	11683047-1	69	23
19207	11681633	54	48	40670	11683047-2	69	4
19207	11681633	54	48	40670	11683047-3	69	21
19207	11681633	58	38	19207	11683047-5	69	3
19207	11681633	59	29	19207	11683047-7	69	19
19207	11681633	61	57	19207	11683048	69	11
19207	11681644	76	2	19207	11683049	69	12

## NATIONAL STOCK NUMBER AND PART NUMBER INDEX

FSCM	PART NUMBER	FIGURE NO.	ITEM NO.	FSCM	PART NUMBER	FIGURE NO.	ITEM NO.
19207	11623050	69	13	19207	11684344	44	10
19207	11623054	69	7	19207	11684345	51	31
19207	11683055	71	1	19207	11684346	38	8
19207	11682057-1	71	16	19207	11684346	39	12
40670	11623057-2	71	10	19207	11684346	52	2
40670	11683057-3	71	14	19207	11684348	51	1
19207	11603057-7	71	9	19207	11684349	51	32
19207	11623058	71	15	19207	11684350	51	13
40670	11683060	71	3	19207	11684351	51	28
19207	11683098	84	18	19207	11684352-1	51	15
19207	11683099	84	18	19207	11684352-2	51	15
19207	11683100	84	18	19207	11684353	51	18
19207	11683101	84	18	19207	11684354	51	20
19207	11682133	6	4	19207	11684355	51	30
19207	11613136	6	10	19207	11684356	51	19
19207	11682137	6	2	19207	11684357	51	2
19207	11683142	6	11	19207	11684360	44	12
40670	11623143	6	14	19207	11684361	44	15
19207	11613159	14	1	19207	11684362	44	11
19207	11683160	13	1	19207	11684365	44	1
19207	11683160-10	13	6	19207	11684366	51	14
19207	11683160-11	13	9	19207	11684367	52	5
19207	11683160-6	13	10	19207	11684383	18	13
19207	11683160-9	13	7	19207	11684396-1	54	49
40670	11683161	13	1	19207	11684396-2	54	49
19207	11683161-1	13	11	19207	11684408		
19207	11683161-5	13	12	19207	11684409		
19207	11683187	20	9	19207	11684410	38	6
19207	11683197	85	2	19207	11684410	39	11
19207	11683210	13	3	19207	11684410	52	9
19207	11683211	5	25	19207	11684465	19	1
19207	11683216-1	85	11	19207	11684466	19	9
19207	11683216-2	85	7	19207	11684468	75	2
19207	11682217	85	8	19207	11684469	75	3
19207	11623220	78	1	19207	11684500	30	4
40610	11683230	53	14	19207	11684501-1	30	5
19207	11683235	83	1	19207	11684501-2	30	5
19207	11683236-1	13	4	61349	11848	1	9
19207	11683236-2	13	5	21450	119285	50	4
19207	11683237	6	9	21450	119286	50	5
19207	11683239	5	29	89207	12330793-1	49	17
19207	11623240	6	81	19207	12330793-2	49	11
19207	11623241	5	17	81091	1347	3	24
19207	11623241	5	18	61349	138000	1	1
19207	11683242	5	14	19220	14X870	62	24
19207	11683244	5	3	19671	1420	53	1
19207	11683245	5	4	93061	152FS6-8	70	6
19207	11683246	5	5	21450	169112	48	10
19207	11683247	5	6	21450	180882	48	25
19207	11683251	5	2	57163	1986G	72	4
19207	11683253	85	3	13445	2036	14	5
19207	11683254	13	2	81348	22-U-531	71	4
19207	11683255	85	1	72962	22NA21J82	69	16
19207	11683256	15	2	06853	225760	35	28
19207	11683251	15	3	06853	225760	39	8
19207	11683259	15	1	70485	2276	16	17
19207	11883260	5	10	70485	2276	24	10
19207	11683261	5	1	80045	23MS35338-50	33	43
19207	11623262-1	84	13	80045	23MS35338-50	34	27
19207	11623262-2	84	14	80045	23MS35338-50	35	6
19207	11683265	13	13	80045	23MS35338-50	48	45
19207	11623268	69	5	80045	23MS35338-50	48	45
19207	11664301-1	49	9	80045	23MS35338-50	66	16
19207	11684303	49	10	80045	23MS35338-50	66	16
19207	11684309	66	24	04741	25-A-257	33	35
19207	11684311	19	21	96256	27F23	2	7
19207	11684313	17	9	40670	2948717	62	31
19207	11684314	21	1	40670	2948118	62	34
19207	11624315	22	9	40670	2948720	62	38
19207	11684316	23	1	40670	2948730	62	30
19207	11624318	21	1	40670	2949995	61	11
19207	11684320	25	2	40670	2949995	62	17
19207	11624329	52	7	40670	2949995	67	21
19207	11684334	44	4	40670	2949995	67	33
19207	11624335	44	2	40670	30154719	56	16
19207	11684336	51	17	40670	30154719	61	39
19207	11684337-1	51	7	31356	31-FX-SK-50(58-62)	1	8
19207	11684337-2	51	6	40670	31681070	72	1
19207	11684338	51	23	40670	31681071	72	5
19207	11624343	44	14	40670	31681072	72	2

## NATIONAL STOCK NUMBER AND PART NUMBER INDEX

FSCM	PART NUMBER	FIGURE NO.	ITEM NO.	FSCM	PART NUMBER	FIGURE NO.	ITEM NO.
40670	31691032	68	8	40670	34861033	2	6
40670	31691032	68	25	40670	34861040	3	26
40670	32341012	3	9	40670	34861041	13	2
40607	32341013	3	8	40670	34861042	14	11
40670	22341015	3	25	40670	34861046	4	3
40670	32341041	3	12	40670	34861049	4	5
40670	32341054	3	8	40670	34861821	67	2
40670	3234416	81	17	40670	3486405	65	1
40670	3734427	81	18	40670	3486504	65	1
40670	3234420			40670	3486700	57	25
40670	3234702	55	22	40670	3486701-2	57	23
40670	3234702	56	27	40610	3486707	61	46
40670	3234702	58	33	40670	3486708	61	46
40670	3274702	58	33	40670	3486723-1	62	20
40670	3234702	59	24	40670	3486123-2	62	20
40670	3234779	3	7	40670	3486736	61	19
40670	3234900	73	3	40670	3486737	61	16
40670	3234910	68	20	40670	3486143	62	21
40670	323491C-1	68	20	40610	3486143	66	13
40610	3734918	68	1	40670	3486746	57	7
40670	3234919-4	68	1	40670	3486748	65	16
40610	3234951-5	69	1	40670	3486750	56	46
40670	3234524	68	29	40670	3486895	82	3
40670	3234924-1	68	29	40670	3486896	61	58
40670	3234925	68	32	40670	3486897-1	82	6
40670	3234925-1	68	32	40670	3486897-2	82	6
40670	3234926	68	30	40670	3486898	61	59
40670	3234927	68	12	40670	3486898	82	4
40670	3234927-1	68	12	40670	3486910	73	4
40670	3234978	68	12	40670	3486925	20	1
40670	3234926	68	15	40670	3486934	61	9
40670	3234929-1	68	15	40670	3486934	62	6
40670	3234930	68	15	40670	3486934	67	10
40670	3234931	68	13	40670	3486934	67	25
40670	3234560	81	1	40670	3486935	82	12
40670	3234914	3	16	40670	3486942	24	1
40670	3234975	3	17	40670	3486943	24	1
40670	3234976	3	15	40670	3486944	67	28
40670	3234977	3	2	40670	3486945	67	26
40670	3234578	3	4	40670	3486946	67	22
40610	3234591	4	15	40610	3486947	62	12
40670	3234980	3	6	40670	3486948	62	16
40670	3234980	4	1	40670	3486949	62	7
40670	3234981	16	20	40670	3486950-1	62	18
40670	3234985	3	11	40670	3486950-2	62	10
40670	3234991-1	3	14	40670	3486952	67	19
40670	3234991-2	3	13	40670	3486953	67	12
40670	3234997	65	12	40670	3486954	67	16
40670	3296977	11	8	40670	3486955	67	14
40670	3296977-1	11	8	40670	3486956	67	1
40670	3256978	11	5	40670	3486961	62	16
40670	3296980	11	6	40670	3486962	62	12
40610	3296981	11	7	40610	3486964-1	62	18
40670	3296986	24	13	40610	3486964-2	62	10
08050	3301	53	12	40670	3486965		
40670	3349701-1	61	44	40670	3486969	67	3
40670	3349701-2	56	44	40670	3486970	61	12
40670	3349101-2	61	44	40670	3486971	61	6
40670	3486029	4	9	40670	3486972	61	4
40670	34861001	4	16	40670	3486973-1	61	5
40670	34861003	4	17	40670	3486973-2	61	7
40670	34861020	61	1	40670	3486974		
40670	34861022	13	1	40670	3486977	61	19
40670	34861022	13	1	40670	3486978	67	14
40670	34861022-1	13	11	40670	3486979	67	16
40670	34861022-10	13	1	40670	3486980	67	12
40670	34861022-11	13	6	40670	3486981	67	3
40670	34861022-12	13	9	40670	3486985	67	1
40670	34861022-3	13	13	40670	3486986	67	36
40670	348e1022-5	13	12	40670	3486989	61	23
40670	34861022-6	13	10	40670	3486994	62	1
40670	34861022-8	13	4	40670	3486997	2	17
40670	34861022-9	13	5	80020	36344N24	42	15
40670	34861023	13	3	40670	3670100	56	46
40670	34861024	12	4	40670	3670703	55	3
40670	34861024	14	3	40670	3670801	86	3
40670	34061026	4	14	40670	3670809	86	14
40670	34861027	4	13	40670	3670812	86	4
40670	34861028	14	10	40670	3670818	86	6
40670	34061032	4	7	40670	3670827	86	12

## NATIONAL STOCK NUMBER AND PART NUMBER INDEX

FSCM	PART NUMBER	FIGURE NO.	ITEM NO.	FSCM	PART NUMBER	FIGURE NO.	ITEM NO.
40670	3670910	18	1	19207	7059832	50	48
40670	3670913	24	14	19207	7060037	50	35
40670	3670914	24	11	19207	7064978	27	8
40670	3670923	81	11	19207	706820	48	7
40670	3670937			19207	7091890	33	47
21873	3760	5	26	19207	7092286	12	1
73740	3790	4	4	19207	7092287	12	2
40670	3835934			19207	7092287	12	2
19671	400A-72	53	3	19207	7092287	12	2
78286	4002-10W	63	15	19207	7092290	12	6
71286	4002-11W	61	10	19207	7092290	12	6
71286	4002-15w	6	13	19207	7092990	12	6
71286	4002-15W	69	24	19207	7263712	40	19
71286	4002-15W	10	15	19207	7264749	55	18
71286	4002-15W	71	17	19207	7264749	56	2
71286	4002-15W	71	34	19207	7264749	58	9
71286	4002-19W	66	25	19207	7264749	58	9
40670	4042900	18	6	19207	7264749	59	31
95683	41W5141-10			19207	7264749	61	21
94222	44-99-223-13	68	16	19207	7264749	63	22
94222	44-99-223-13	68	33	74545	7311	3	10
94222	44-99-225-21	86	13	19207	7320658	9	5
75582	4929	4	8	19207	7320688	6	13
21450	506209	16	9	19207	7327426-1	69	17
21450	506209	17	2	19207	7327426-1	71	6
21450	506209	17	10	19207	7327426-2	6	6
21450	506209	17	10	19207	7327426-2	54	6
21450	506209	19	8	19207	7327426-2	54	6
21450	506209	20	2	19207	7327426-2	61	16
21450	506209	24	20	19207	7327426-2	62	5
63477	5156653	30	1	19207	7327426-2	63	6
19207	5167679	30	9	19207	7327426-2	64	56
19207	5167878	31	9	19207	7327426-2	67	9
13257	52NE066	86	7	19207	7327426-2	67	34
19207	5214539	30	14	19207	7327426-2	68	6
19207	5228623	33	7	19207	7327426-2	68	23
19207	5228623	33	7	19207	7327426-2	70	19
19207	5228623	34	13	19207	7327426-2	71	41
19207	5228623	35	18	19207	7346922		
19207	5228623	38	19	19207	7352008	36	7
19207	5228623	39	3	19207	7368629	50	26
89020	524	85	5	19207	7368641	50	27
19207	5298653	30	12	19207	7368642	50	28
19207	5298653	32	7	19207	7368675	50	24
89020	530	1	17	19207	7368676	50	30
19207	5323088	28	9	19207	7368677	50	29
19207	5343622	2	15	19207	7373221	50	10
21450	537805	40	9	19207	7373229	50	13
55026	55-AC-V-0-250	1	1	19207	7373354	31	6
55026	55-0-200AMPAC	1	2	19207	7389061	40	2
75345	5626-1	62	32	19207	7389620	40	3
19220	5626-10	62	37	19207	7389621		
19220	5626-7	62	33	19207	7389621	40	1
02121	5628-5	62	36	40670	74-0315	5	9
19220	5628-6	62	35	19207	7409335	50	8
40670	58854-A-21	13	2	19207	7411022	33	19
19207	593599	48	42	19207	7411078	33	25
40670	5955122-1	65	6	19207	7411078	34	18
40670	5955122-2	65	6	19207	7411078	35	22
01364	60F6100	6	3	19207	7411079	33	27
19207	6144356	40	5	19207	7411079	34	19
19207	6144454	40	4	19207	7411079	35	21
08108	67			19207	7411080	33	27
08108	67			19207	7411080	34	17
24617	695988	34	12	19207	7411080	35	21
55719	7-0			19207	7411378	40	7
19220	7X195	62	25	19207	1411379	40	6
19207	7014965	33	2	19207	7411425	40	12
19207	7014965	33	31	19207	7411429	40	11
19207	7014965	34	16	19207	7411433	40	15
19207	7014965	35	15	19207	7411760	28	2
19207	7014965	39	4	19207	7411903	32	10
19207	7034589	48	38	19207	7412050	32	1
19207	7044253	42	10	19207	7412068	32	1
19207	7045177	48	22	19207	7412079	30	10
19207	7045779	48	29	19207	7412079	32	8
19207	7045782	48	17	19207	7412088	30	13
19207	7045783	48	11	19207	7412088	32	5
19207	705396	48	7	19201	7412103	28	8
19207	7056708	18	5	19207	7412104	29	10

## NATIONAL STOCK NUMBER AND PART NUMBER INDEX

FSCM	PART NUMBER	FIGURE NO.	ITEM NO.	FSCM	PART NUMBER	FIGURE NO.	ITEM NO.
19207	7412120	29	11	19207	7744947	48	26
19207	7412770	12	5	19207	7745464	30	11
19207	7412770	12	5	19207	7745464	32	6
19207	7412770	12	5	19207	7748911	54	25
19207	7412770	14	2	19207	7748911	55	14
19207	7413231	40	13	19207	7748911	56	5
19207	7416878-1	68	22	19207	7748911	56	19
19207	7416878-2	68	7	19207	7748911	57	8
19207	7416878-2	68	11	19207	7748911	57	20
19207	7416878-2	68	27	19207	7748911	58	18
19207	7418892	43	8	19207	7748911	59	38
19207	7528156	43	14	19207	7748911	60	11
19207	7121157	43	5	19207	7748911	61	24
19207	7528159	43	11	19207	7748911	61	40
19207	7521160	43	4	19207	7748911	63	27
19207	7521161	43	9	19207	7748911	64	8
19207	7521163	43	7	71612	78		
19207	7521639	50	47	19207	7974885	48	3
19207	7521640	26	20	19207	7974887	48	2
19207	7521642	26	13	19207	7974888	48	41
19207	7521643	26	6	19207	7979296	33	22
19207	7521645	26	5	19207	7979297	33	23
19207	7521646	26	7	63477	7979691	31	5
19207	7521647	26	8	19207	7982399	8	3
19207	7521648	26	19	19207	7982907	20	14
19207	7521737	50	33	19207	7998651	48	1
19207	7521739	50	34	19207	8327366	12	4
19207	7521795	50	14	19207	8327366	12	4
19207	7521831	50	52	19207	8327759	43	15
19207	7521832	50	46	19207	8327988	50	41
19207	7521833	50	45	19207	8332086	31	1
19207	7521834	50	44	19207	8335233	8	12
19207	7524315	42	6	19207	8336701	28	1
19207	7524316	42	9	19207	8336702	28	1
19207	7526020	9	6	19207	8336704	29	6
19207	7526509	7	8	19207	8336705	29	7
19207	7526509	7	8	19207	8336789	29	7
19207	7526509	7	8	19207	8338561	16	2
19207	7526515	7	7	19207	8338561	16	14
19207	7526515	7	7	19207	8338561	17	3
19207	7526515	7	7	19207	8338561	17	11
19207	7526516	7	3	19207	8338561	17	11
19207	7526516	7	3	19207	8338561	17	11
19207	7526516	7	3	19207	8338561	18	2
19207	7526796	7	5	19207	8338561	18	7
19207	7526796	7	5	19207	8338561	18	14
19207	7526796	7	5	19207	8338561	19	2
19207	7539268	32	12	19207	8338561	19	10
19207	7539308	31	10	19207	8338561	20	3
19207	7539661	50	11	19207	8338561	20	10
90190	7560	4	12	19207	8338561	20	18
19207	7612227	4	10	19207	8338561	21	2
19207	7613186	54	16	19207	8338561	21	9
19207	7613186	54	16	19207	8338561	22	2
19207	7700125	26	4	19207	8338561	23	9
19207	7700126	26	2	19207	8338562	16	3
19207	7700127	26	3	19207	8338562	16	15
19207	7716634	22	13	19207	8338562	17	4
19207	7716793	22	6	19207	8338562	17	12
19207	7716794	23	16	19207	8338562	17	12
19207	7722333	16	6	19207	8338562	17	12
19207	7722333	17	7	19207	8338562	18	3
19207	7722333	17	15	19207	8338562	18	8
19207	7722333	17	15	19207	8338562	18	15
19207	7722333	19	6	19207	8338562	19	3
19207	7722333	22	8	19207	8338562	19	11
19207	7722333	23	7	19207	8338562	20	4
19207	7722333	23	17	19207	8338562	20	11
19207	7722333	24	18	19207	8338562	20	19
19207	7723309	16	8	19207	8338562	21	3
19207	7723309	17	8	19207	8338562	21	10
19207	7723309	19	7	19207	8338562	22	3
19207	7723309	24	19	19207	8338562	23	10
72869	7723309	17	16	19207	8338563	16	4
72869	7723309	17	16	19207	8338563	16	16
72869	7723309	22	7	19207	8338563	17	5'
72869	7723309	23	8	19207	8338563	18	4
72869	7723309	23	18	19207	8338563	18	9
19207	7731428	2	10	19207	8338563	19	12
19207	7739666	43	10	19207	8338563	20	5

## NATIONAL STOCK NUMBER AND PART NUMBER INDEX

FSCM	PART NUMBER	FIGURE NO.	ITEM NO.	FSCM	PART NUMBER	FIGURE NO.	ITEM NO.
19207	8338563	20	20	19207	8689208	33	9
19207	8338563	21	4	19207	8689208	33	9
19207	8338563	21	11	19207	8689208	33	9
19207	8338563	22	4	19207	8689208	33	36
192C7	8338563	23	11	19207	8689208	34	1
19207	8338564	17	13	19207	8689208	38	2
19207	8338564	17	13	19207	8689208	39	23
19207	8338564	18	16	19207	8689210	33	24
19207	8338564	19	4	19207	8689210	34	4
19207	8338564	20	12	19207	8689210	35	12
19207	8338566	2	3	19207	8689210	83	12
19207	8338566	9	11	19207	8690462	54	52
19207	8338566	10	8	19207	8694464	8	9
19207	8338566	16	12	19207	8699566	50	16
19207	8338566	18	10	19207	8720024	40	18
19207	8338566	18	18	19207	8720025	40	16
19207	8338566	19	13	19207	8720331	29	13
19207	8338566	20	6	19207	8120515	28	13
19207	8338566	20	13	19207	8120974	48	27
19207	8338566	20	22	19207	8720979	48	25
19207	8338566	21	6	19207	8122186-10	54	30
19207	8338566	21	13	19207	8722186-10	55	12
19207	8338566	23	2	19207	8722186-10	56	7
19207	8338566	23	13	19207	8722186-10	58	20
19207	8338567	2	4	19207	8722186-10	59	40
19207	8338567	9	12	19207	8722186-10	60	13
19207	8338567	10	9	19207	8722186-10	61	26
19207	8338567	16	13	19207	8722186-10	64	10
19207	8338567	18	11	19207	8722186-12	57	9
19207	8338567	18	19	19207	8722186-13	57	10
19207	8338567	19	14	19207	8722186-3	54	26
19207	8338567	20	7	19207	8722186-3	55	13
19207	8338567	20	16	19207	8722186-3	56	6
19207	8338567	20	23	19207	8722186-3	58	19
19207	8338567	21	7	19207	8722186-3	59	39
19207	8338567	21	14	19207	8722186-3	60	12
19207	8338567	23	3	19207	8722186-3	61	25
19207	8338567	23	14	19207	8722186-3	64	9
19207	8365426	31	4	19207	8722186-4	56	23
19207	8376208	16	5	19207	8722186-4	61	32
19207	8376208	17	6	19207	8724257	22	14
19207	8376208	17	14	19207	8724258	22	12
19207	8376208	17	14	19207	8724763	16	7
19207	8376208	19	5	19207	8724763	22	5
19207	8376208	24	17	19207	8724763	24	16
19207	8376209	23	6	19207	8730455	33	41
19207	8376574	48	5	19207	8730455	34	25
19207	8376583	48	6	19207	8730455	35	4
19207	8376585	48	34	19207	8730456		
19207	8376590	48	9	19207	8730456	33	40
19207	8376593	48	21	19207	8730456	34	28
19207	8376595	48	30	19207	8730456	35	3
19207	8376596	48	31	19207	8733890	28	5
19207	8376602	48	54	19207	8733891	28	5
19207	8376602	49	2	19207	8733892	28	12
19207	8376610	48	39	19207	8733893	28	12
19207	8376611	48	8	19207	8733894	27	1
19207	8378661	9	3	19207	8733895	27	1
19207	8378785	9	1	19207	8733896	29	4
19207	8377625	48	32	19207	8133897	29	4
19207	8379855	48	40	19207	8733898	32	4
19207	8379857	48	16	19207	8733899	32	4
19207	8380196	42	8	19207	8133901	29	1
19207	8380197	42	7	19207	8733902	29	1
19207	8380802	36	5	19207	8733908	29	5
19207	8380805	36	3	19207	8733909	29	5
19207	83808081	36	8	19207	8733911	27	7
19207	8380814	36	6	19207	8733912	27	7
19207	8380817	36	2	19207	8733916	32	9
19207	8380818	36	4	19207	8733918	32	11
19207	8386475	8	5	19207	8733920	32	9
19207	8386477	8	6	19207	8733922	32	11
19207	8389462-1			19207	8733926	27	6
19207	8407333	30	3	19207	8733927	27	6
19207	8687084	8	2	19207	8733929	32	13
19207	8689206	34	5	19207	8733933	29	12
19207	8689206	35	27	19207	8733935	27	5
19207	8689206	38	4	19207	8733936	27	4
19207	8689206	39	10	19207	8733937	27	3
19207	8689208	33	9	19207	8733938	27	2



## NATIONAL STOCK NUMBER AND PART NUMBER INDEX

FSCM	PART NUMBER	FIGURE NO.	ITEM NO.	FSCM	PART NUMBER	FIGURE NO.	ITEM NO.
19207	873553			40670	9048930	16	10
19207	873553	48	24	40670	9048940	16	1
19207	8735554	48	27	40670	9050906	74	3
19207	8735555	48	33	40670	9067001	58	12
19207	8731729	28	6	40670	9067001	58	12
19207	8737178			40670	9067001	59	34
19207	873717e	48	49	40670	9067001	59	34
19207	8748247-30	60	43	40670	9067002	58	13
19207	8741247-30	62	3	40670	9067002	58	13
19207	8741247-3C	67	6	40670	9067002	59	35
19207	8741247-3C	84	5	40670	9067002	59	35
19207	8741846	8	10	40670	9067005	58	27
19207	8748e50	8	4	40670	9067005	58	27
19207	8e7146151	8	7	40670	9067005	59	47
19207	8747104	56	53	40670	9067005	59	47
19207	e747104	59	7	40670	9068001	55	23
19207	8771C4 8	56	47	40670	9068001	56	28
19207	81411(8	59	1	40670	9068001	58	37
19207	8747118	66	12	40670	9068001	59	25
19207	8147118	66	12	40670	9068002	55	26
19207	8747118	66	12	40670	9068002	56	31
19207	87472C7			40670	9068002	58	34
19207	87477C7	47	11	40670	9068002	59	28
19207	E747211	46	1	74545	92071	3	3
19207	8747212	46	1	40670	9344713-1	54	61
19207	8747213	46	4	40670	9344713-2	54	61
19207	8747214	46	4	40670	9348040	66	28
19207	8747115	46	10	40670	9351706-1	54	49
19207	e74721[	46	12	40670	9419909	58	6
19207	8747218	47	4	40670	9444700-1	62	20
19207	6747218	47	12	40670	9444700-2	62	20
19207	E741218	49	12	40670	9444701	61	46
19207	e747218	65	14	40670	9444701	68	46
19207	E747218-1	46	11	40670	9444702	61	46
19207	8747222	46	2	40670	9444703	57	25
19207	8747246	23	12	40670	9444704	56	46
19207	8747247	2	2	40670	9444710	62	22
19207	8741249			40670	9444905-1	82	11
19207	E747250			40670	9444905-3	82	11
19207	8747250			40670	96902	53	2
19207	8747250			74545	97071	4	2
19207	87472f3	33	45	40670	9772074	47	10
19207	81472k3	34	32	40670	9772075	47	5
19207	e747263	35	37	40670	9772076	47	6
19207	8e77292	56	40	40670	9772700	58	7
19207	8747293	56	39	40670	9772700	58	7
19207	8747317	66	7	40670	9772701	56	46
19207	8747317	66	7	40670	9772702	55	3
19207	8741717	66	7	40670	9772706	55	22
19207	E747551			40670	9172706	56	27
19207	81571E4	50	51	40670	9772706	58	33
19207	8757685	50	38	40670	9772706	59	24
19207	e151712	26	15	40670	9772900	20	17
19207	175ee8881	50	50	40670	9772901	16	1
19207	e758890	50	20	40670	9772903		
19207	e158eso00	50	21	40670	9772910	75	5
19207	je58;C1	50	22	40670	9772915	75	6
19207	e758S11	50	43	40670	9884701	59	20
19207	8758S18	50	18	40670	9884703	58	7
19207	8758919	50	9	40670	9884950		
19207	8759C76	30	4	40670	99521002	59	11
19207	8759C77	50	1	40670	99521003	59	12
19207	8759C79	30	5	40670	99521004	59	13
19207	8759(80	30	5	40670	99521005	59	9
15605	8803-K6	2	18	40670	9964700	59	20
40670	9040950			40670	9965700	59	20
40670	9048506	74	2	40670	9965900	74	6

## APPENDIX F

### EXPENDABLE SUPPLIES AND MATERIALS LIST

---

#### Section I. INTRODUCTION

##### F-1. Scope

This appendix Lists expendable supplies and materials you will need to operate and maintain the semitrailer, van: electronic, XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM739E1, XM822, XM823, XM824, XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913. These items are authorized to you by CTA50-970, Expendable Items (Except Medical, Class V, Repair Parts, and Heraldic Items).

##### F-2. Explanation of Columns

*a. Column 1-Item Number.* This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e.g., "Use cleaning solvent, item 19, appendix F").

*b. Column 2-Level.* This column identifies the lowest level of maintenance that requires the listed item.

- C Operator/Crew
- O Organizational Maintenance
- F Direct Support Maintenance
- H General Support Maintenance.

*c. Column 3-National Stock Number.* This is the National stock number assigned to the item; use it to request or requisition the item.

*d. Column 4-Description.* Indicates the Federal item name and, if required, a description to identify the item. The last line for each item indicates the part number followed by the Federal Supply Code for Manufacturer (FSCM) in parentheses, if applicable.

*e. Column 5-Unit of Measure (U/M).* Indicates the measure used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr). If the unit of measure differs from the unit of issue, requisition the lowest unit of issue that will satisfy your requirements.

(1) ITEM	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
1	C	5110-00-293-2336	AXE Single bit, 4-3/4 cutting edge, 4 8b head weight, 36 in hand8e	ea
2	C, O		CONTAINER Box, manual (11603170) GREASE Automotive and artillery, M18-G-10924	ea
3	C, O	9150-00-190-0904	1 8b Can	ea
4	C, O	9150-00-190-0905	5 8b Can	ea
5	C, O	9150-00-190-0907	35 8b Can	ea
6	C	5120-00-254-6613	HANDLE, MATTOCK, PICK Railroad or clay pick, 36 in 8g, grade AA HYDRAULIC FLUID, NONPETROLEUM BASE, AUTOMOTIVE (HB) VV-F-451a	ea
7	C, O	9150-00-252-6375	1 Gal Can HYDRAULIC FLUID, NONPETROLEUM BASE, AUTOMOTIVE (ARCTIC TYPE) MIL-H-13910	ea
8	C, O	9150-00-252-6375	1 Gal Can LUBRICATING OIL, INTERNAL COMBUSTION ENGINE Spec MIL-C-21046, OE/HDO-30	ea
9	O	9150-00-186-6681	1 Qt Can, Type 1	ea
10	O	9150-00-188-9858	5 Gal Can	ea
11	O	9150-00-188-9859	55 Gal Drum (16 Ga)	ea
12	O	9150-00-189-6759	55 Gal Drum (18 Ga) LUBRICATING OIL, INTERNAL COMBUSTION ENGINE APG PD No 1 Sub Zero	ea
13	O	9150-00-402-4478	1 Qt Can, Type 1	ea
14	O	9150-00-402-2372	5 Gal Can	ea
15	O	9150-00-407-0972	55 Gal Drum (16 Ga)	ea
16	O	9150-00-491-7197	55 Gal Drum (18 Ga)	ea
17	C	5120-00-243-2395	MATTOCK Pick type, 5 lb, w/o handle	ea
18	C	5120-00-293-3336	SHOVEL, HAND Round point, D handle, short SOLVENT, CLEANING PD-680	ea
19	C, O	6850-00-264-9038	1 Gal Can	ea

**APPENDIX G**  
**ILLUSTRATED LIST OF MANUFACTURED ITEMS**

**G-1. INTRODUCTION**

This appendix includes complete instructions for making items authorized to be manufactured or fabricated at organizational maintenance.

A part number index in alphanumeric order is provided for cross-referencing the part number of

the item to be manufactured to the figure which covers fabrication criteria.

Bulk materials needed for manufacture of an item are listed by part number and NSN in the following tabular listing:

*Tabular listing of manufactured items*

Part number of item	Figure no	Required number of feet of wire M13486-1-5 6145-00-152-6499	Required number of feet of wire M13486-1-9 6145-00-538-8222
10882274	G-15	495	33
10882275	G-16	170	
10891478	G-15	451	
11681234	G-9	196	
11681236	G-8	330	
11683187	G-2	170	
11684313	G-12	413	
11684314	G-1	220	
11684315	G-18		
11684316	G-19	50	
11684318	G-1	188	
11684383	G-21	157	
1168465	G-17	356	
11684466	G-20	74	
3486925	G-3	372	
3670910	G-6	485	
3670913	G-7	113	
3670914	G-14	63	
4042900	G-4	194	
9048930	G-13	205	
9048940	G-11	525	
9772900	G-10	204	
9772901	G-5	578	

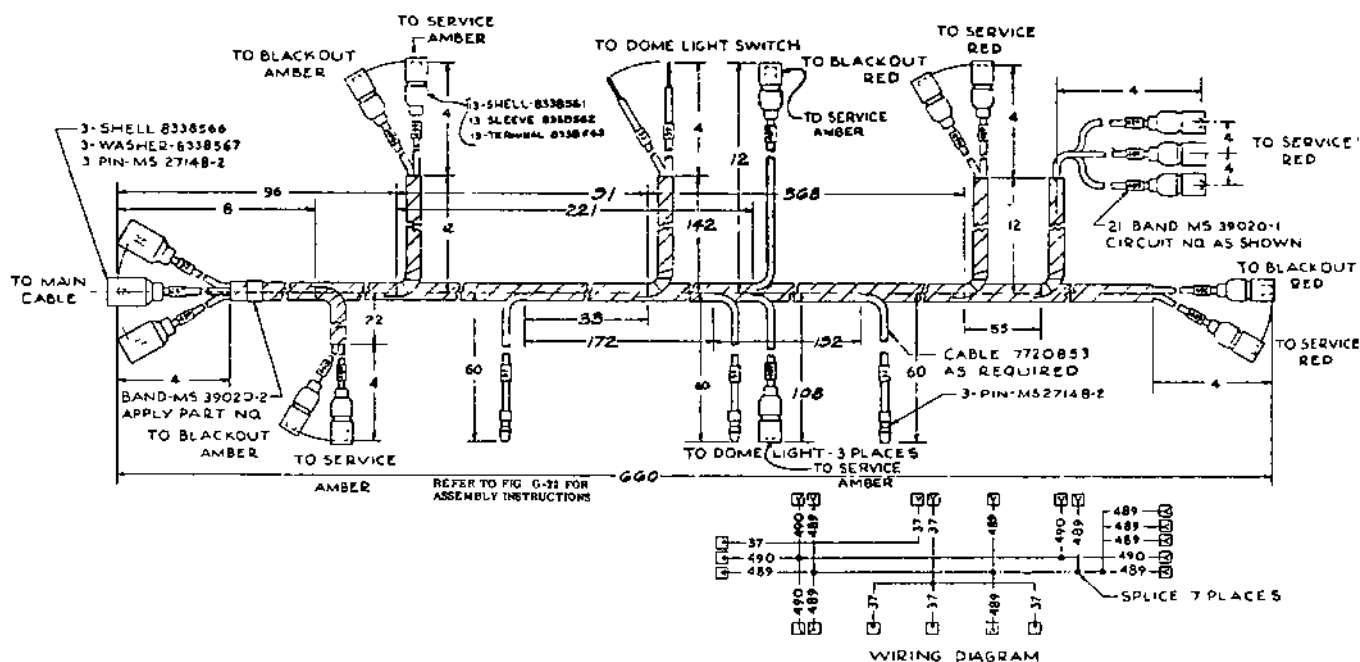


Figure G-1. Wiring harness 11684314, 11684318.

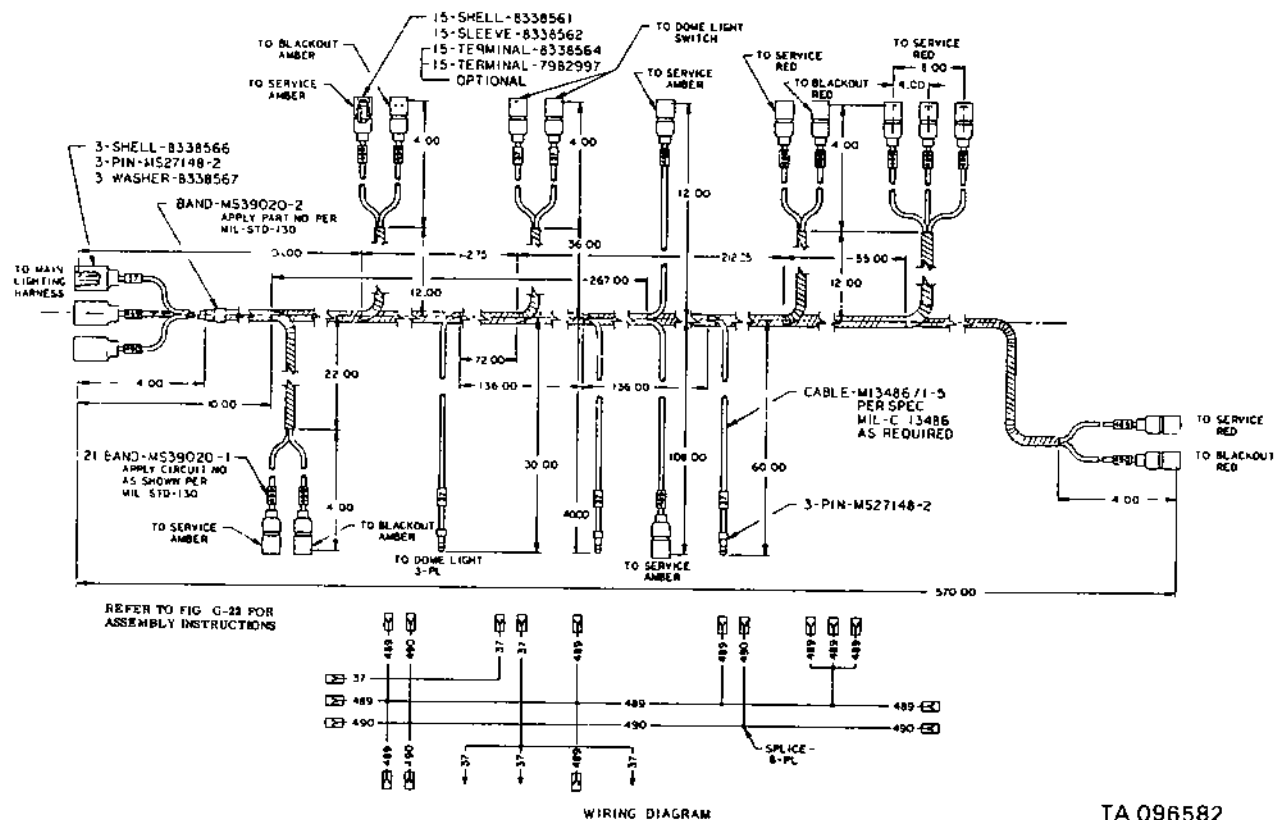


Figure G-2. Wiring harness 11683187.

TO BLACKOUT AMBER

TO SERVICE AMBER

TO BLACKOUT RED

TO SERVICE RED

TO DOME LIGHT SWITCH

TO DOME LIGHT

TO SERVICE AMBER

TO SERVICE RED

TO BLACKOUT RED

TO MAIN CABLE

FRONT

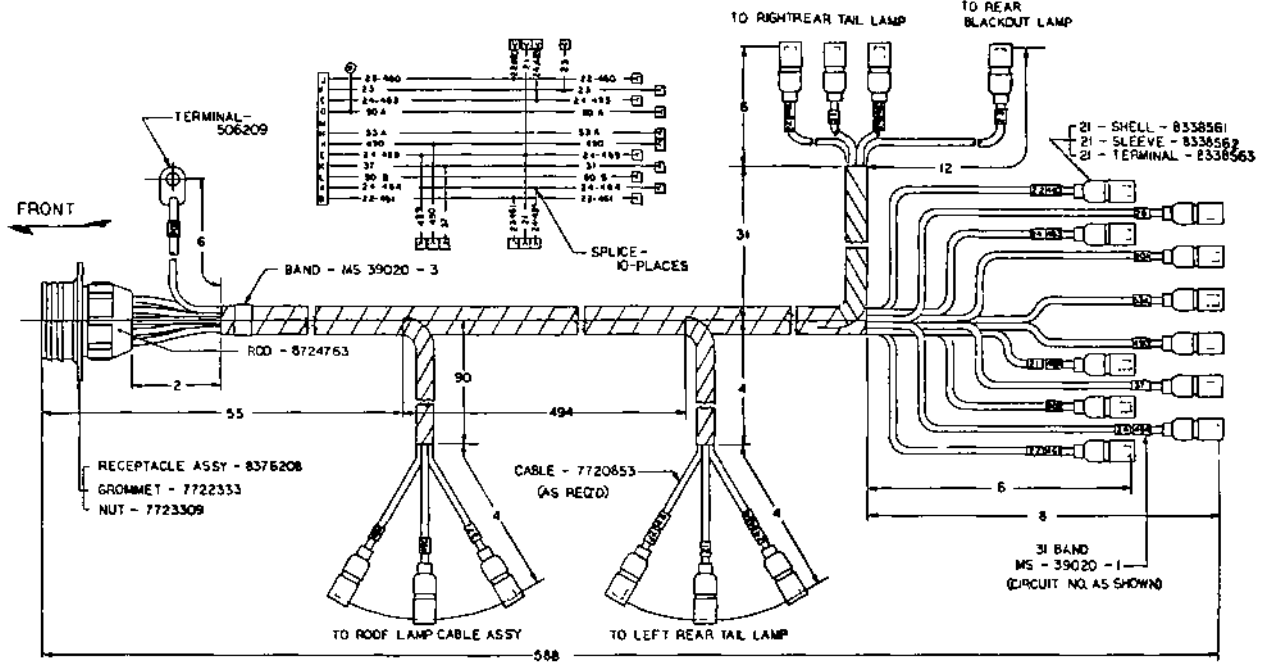
670 REF

[illegible]

3	1	000000	1311007	WASSEN
10	1	000000	1311007	WASSEN
2	1	000000	1311007	WASSEN
3	1	000000	1311007	WASSEN
4	1	000000	1311007	WASSEN
5	1	000000	1311007	WASSEN
6	1	000000	1311007	WASSEN
7	1	000000	1311007	WASSEN
8	1	000000	1311007	WASSEN
9	1	000000	1311007	WASSEN
10	1	000000	1311007	WASSEN
11	1	000000	1311007	WASSEN
12	1	000000	1311007	WASSEN
13	1	000000	1311007	WASSEN
14	1	000000	1311007	WASSEN
15	1	000000	1311007	WASSEN
16	1	000000	1311007	WASSEN
17	1	000000	1311007	WASSEN
18	1	000000	1311007	WASSEN
19	1	000000	1311007	WASSEN
20	1	000000	1311007	WASSEN
21	1	000000	1311007	WASSEN
22	1	000000	1311007	WASSEN
23	1	000000	1311007	WASSEN
24	1	000000	1311007	WASSEN
25	1	000000	1311007	WASSEN
26	1	000000	1311007	WASSEN
27	1	000000	1311007	WASSEN
28	1	000000	1311007	WASSEN
29	1	000000	1311007	WASSEN
30	1	000000	1311007	WASSEN
31	1	000000	1311007	WASSEN
32	1	000000	1311007	WASSEN
33	1	000000	1311007	WASSEN
34	1	000000	1311007	WASSEN
35	1	000000	1311007	WASSEN
36	1	000000	1311007	WASSEN
37	1	000000	1311007	WASSEN
38	1	000000	1311007	WASSEN
39	1	000000	1311007	WASSEN
40	1	000000	1311007	WASSEN
41	1	000000	1311007	WASSEN
42	1	000000	1311007	WASSEN
43	1	000000	1311007	WASSEN
44	1	000000	1311007	WASSEN
45	1	000000	1311007	WASSEN
46	1	000000	1311007	WASSEN
47	1	000000	1311007	WASSEN
48	1	000000	1311007	WASSEN
49	1	000000	1311007	WASSEN
50	1	000000	1311007	WASSEN
51	1	000000	1311007	WASSEN
52	1	000000	1311007	WASSEN
53	1	000000	1311007	WASSEN
54	1	000000	1311007	WASSEN
55	1	000000	1311007	WASSEN
56	1	000000	1311007	WASSEN
57	1	000000	1311007	WASSEN
58	1	000000	1311007	WASSEN
59	1	000000	1311007	WASSEN
60	1	000000	1311007	WASSEN
61	1	000000	1311007	WASSEN
62	1	000000	1311007	WASSEN
63	1	000000	1311007	WASSEN
64	1	000000	1311007	WASSEN
65	1	000000	1311007	WASSEN
66	1	000000	1311007	WASSEN
67	1	000000	1311007	WASSEN
68	1	000000	1311007	WASSEN
69	1	000000	1311007	WASSEN
70	1	000000	1311007	WASSEN
71	1	000000	1311007	WASSEN
72	1	000000	1311007	WASSEN
73	1	000000	1311007	WASSEN
74	1	000000	1311007	WASSEN
75	1	000000	1311007	WASSEN
76	1	000000	1311007	WASSEN
77	1	000000	1311007	WASSEN
78	1	000000	1311007	WASSEN
79	1	000000	1311007	WASSEN
80	1	000000	1311007	WASSEN
81	1	000000	1311007	WASSEN
82	1	000000	1311007	WASSEN
83	1	000000	1311007	WASSEN
84	1	000000	1311007	WASSEN
85	1	000000	1311007	WASSEN
86	1	000000	1311007	WASSEN
87	1	000000	1311007	WASSEN
88	1	000000	1311007	WASSEN
89	1	000000	1311007	WASSEN
90	1	000000	1311007	WASSEN
91	1	000000	1311007	WASSEN
92	1	000000	1311007	WASSEN
93	1	000000	1311007	WASSEN
94	1	000000	1311007	WASSEN
95	1	000000	1311007	WASSEN
96	1	000000	1311007	WASSEN
97	1	000000	1311007	WASSEN
98	1	000000	1311007	WASSEN
99	1	000000	1311007	WASSEN
100	1	000000	1311007	WASSEN

TA 096583

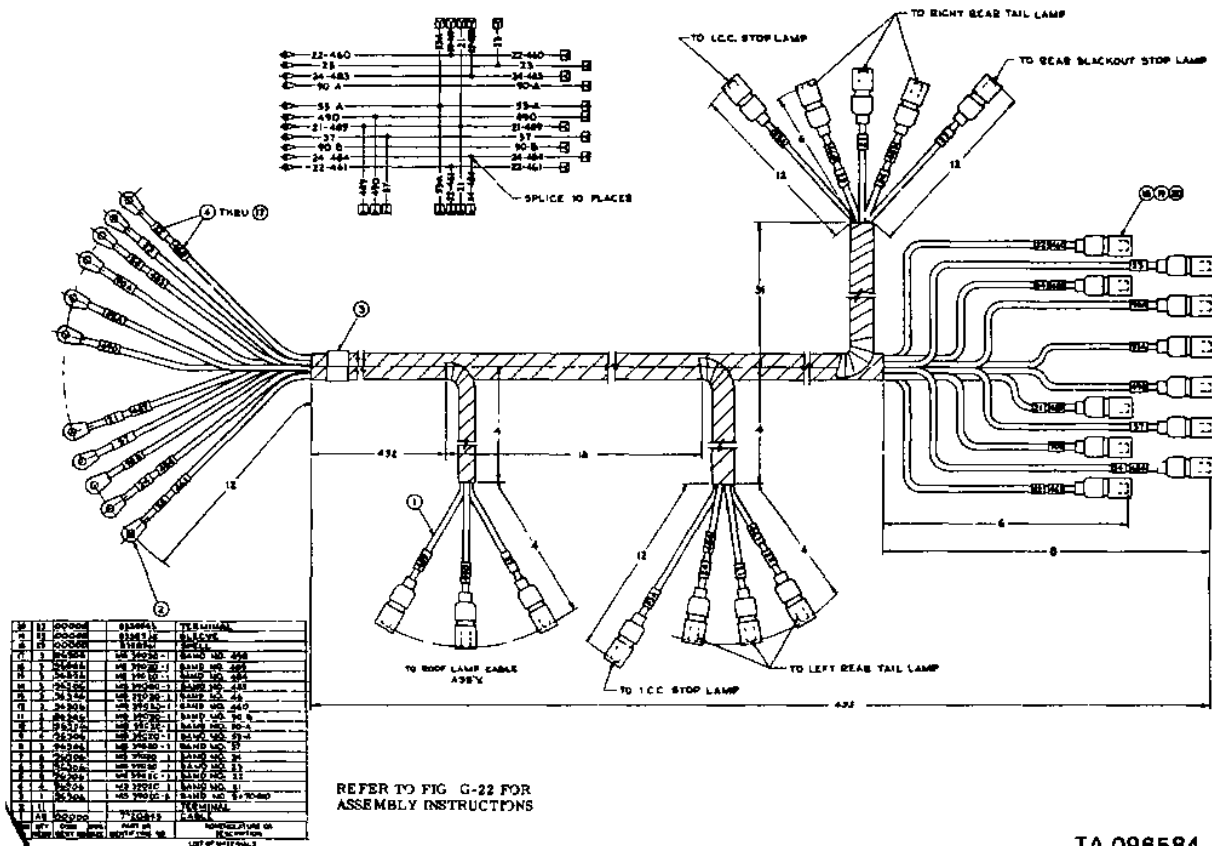
**G-3**



REFER TO FIG. G-23 FOR  
ASSEMBLY INSTRUCTIONS

PLUG SPARE GROMMET HOLE  
WITH INDICATED ROD

Figure G-5. Wiring harness 9772901.



TA 096584

Figure G-6. Wiring harness 3670910.

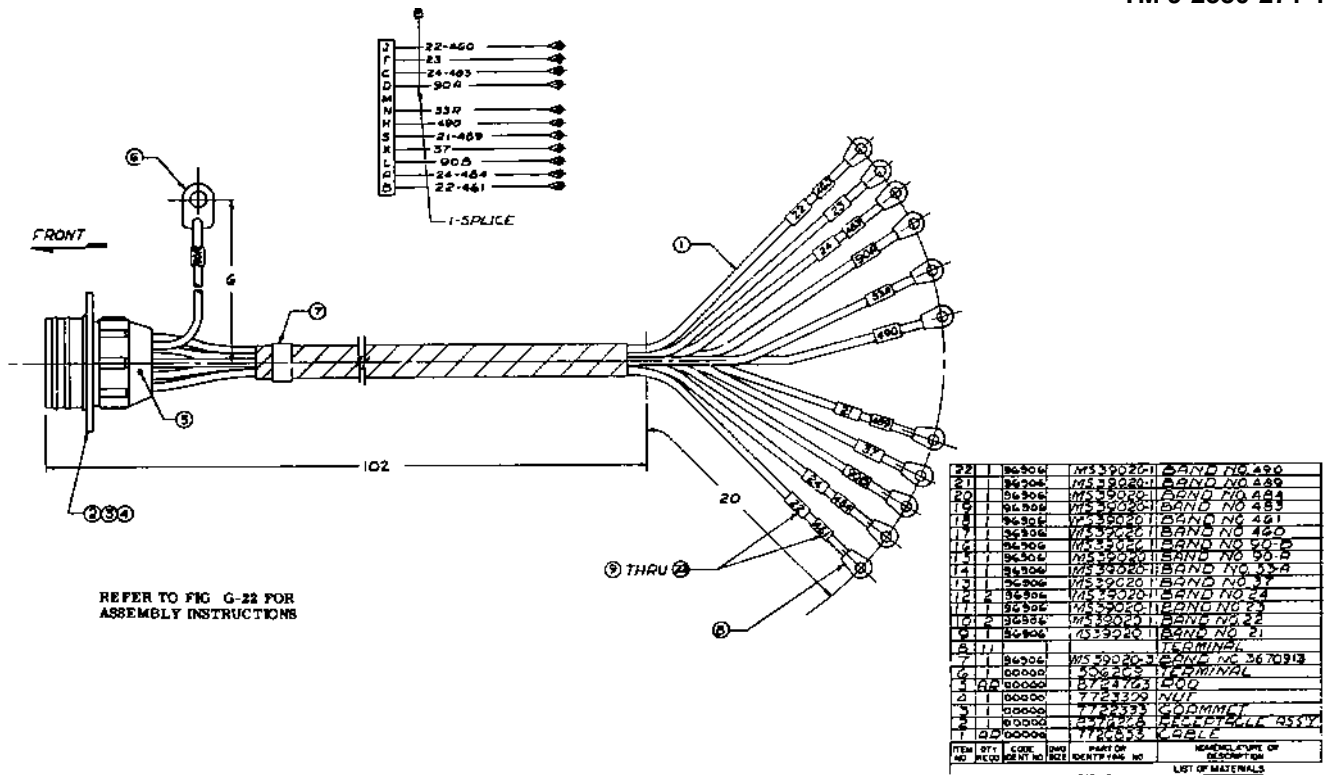


Figure G-7. Wiring harness 3670913.

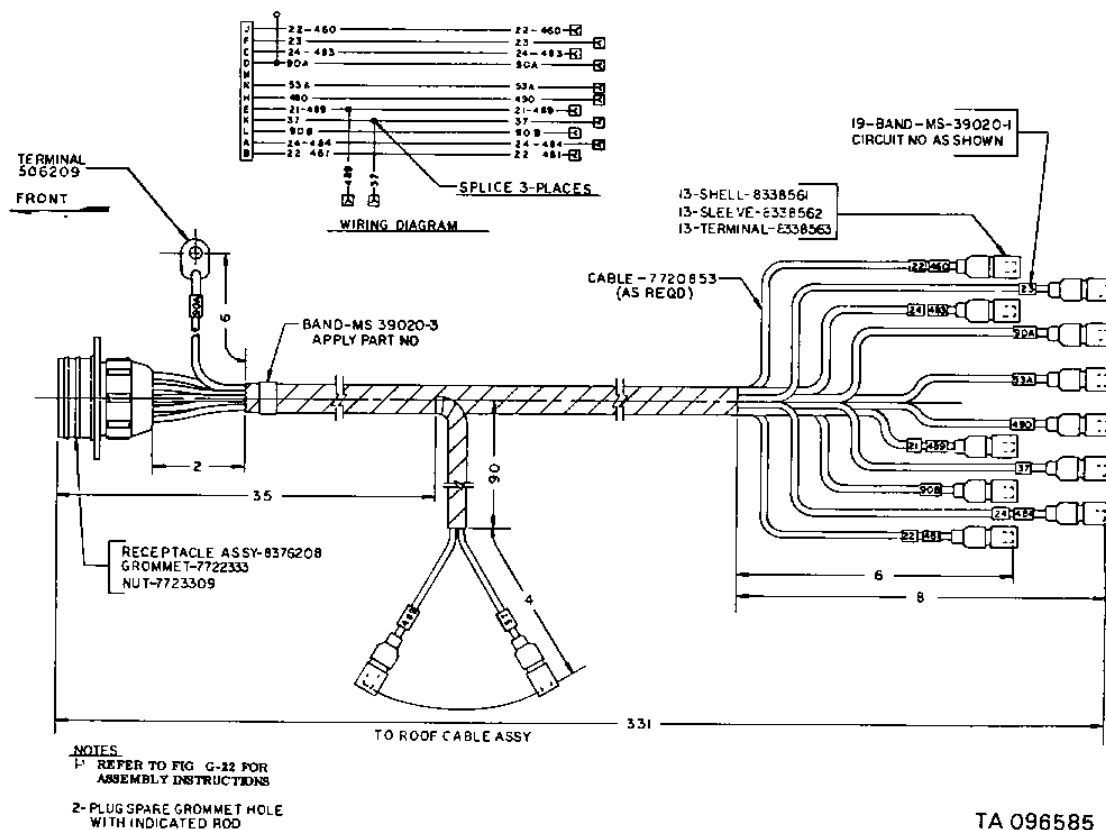
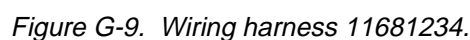


Figure G-8. Wiring harness 11681236.





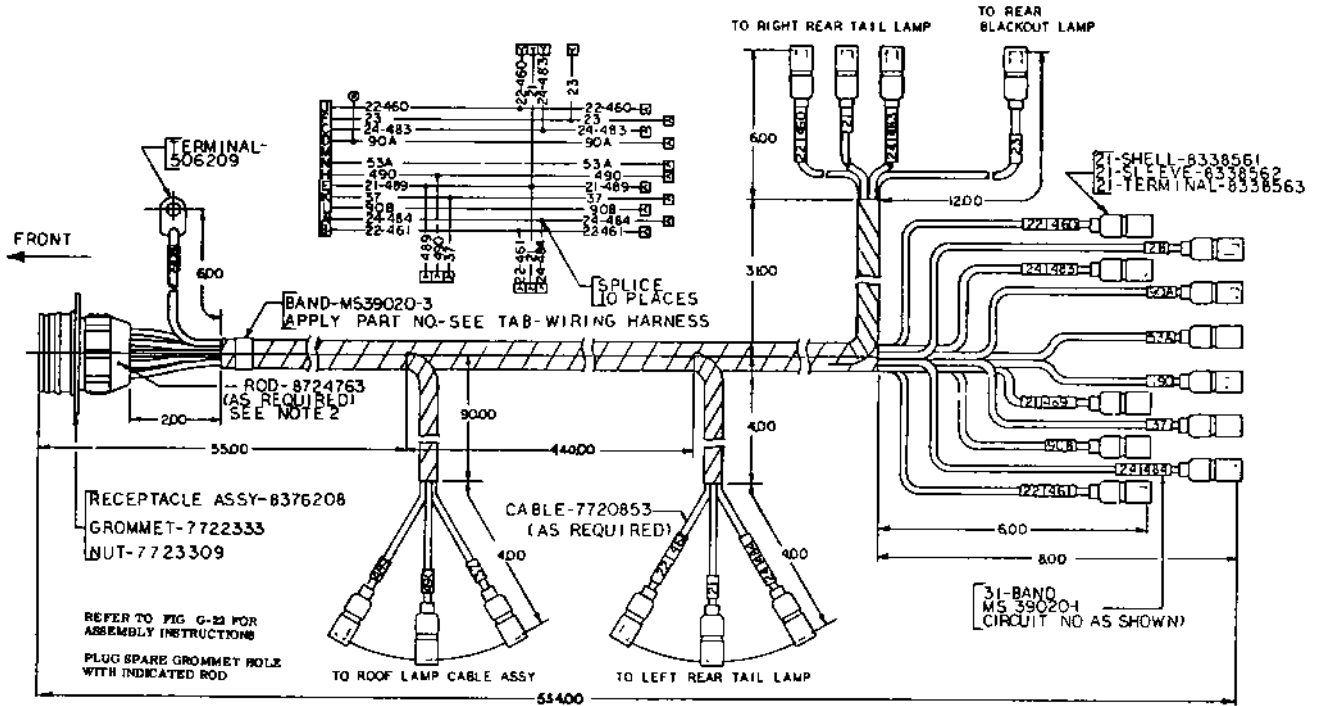


Figure G-11. Wiring harness 9048940.

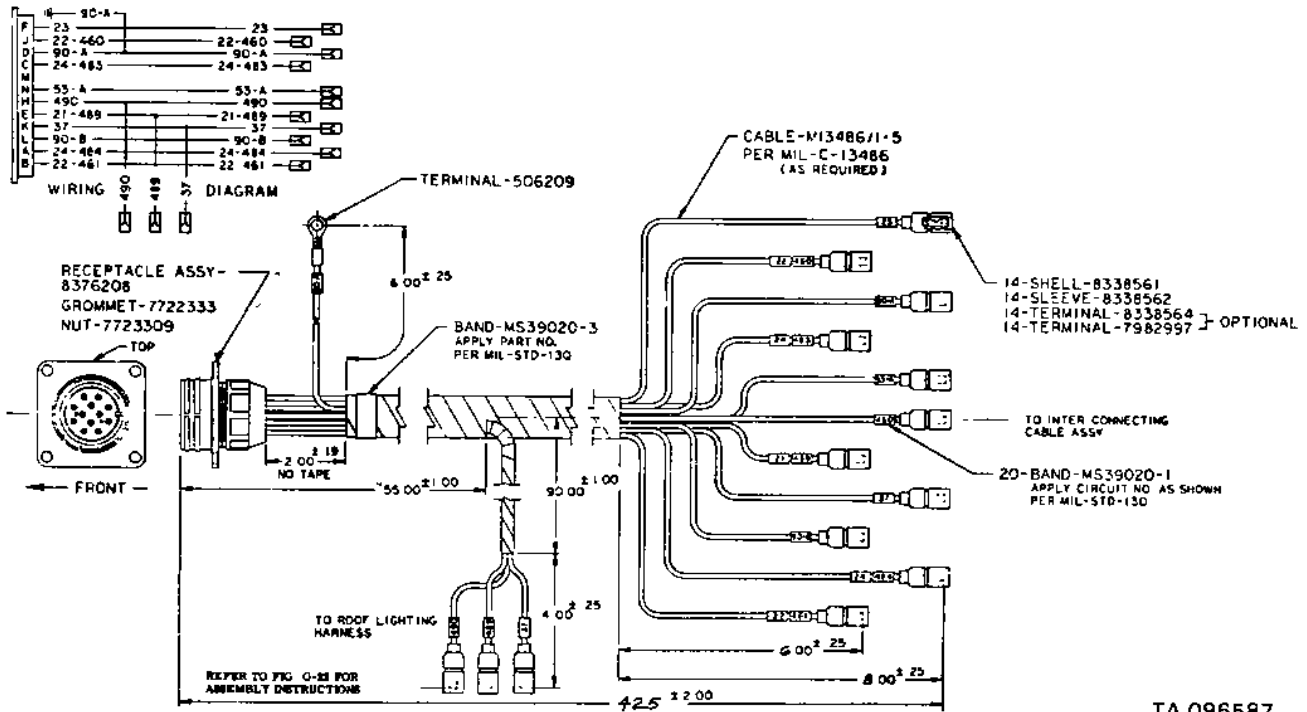


Figure G-12. Wiring harness 11684313.

TA 096587

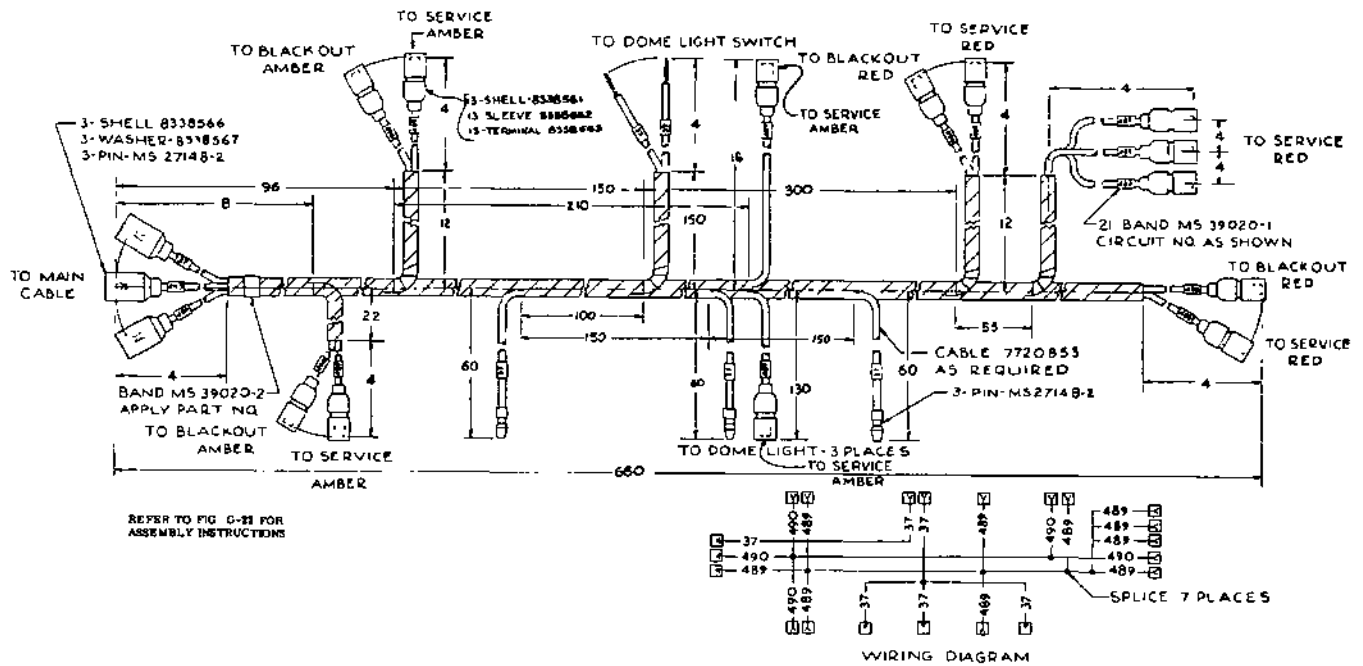
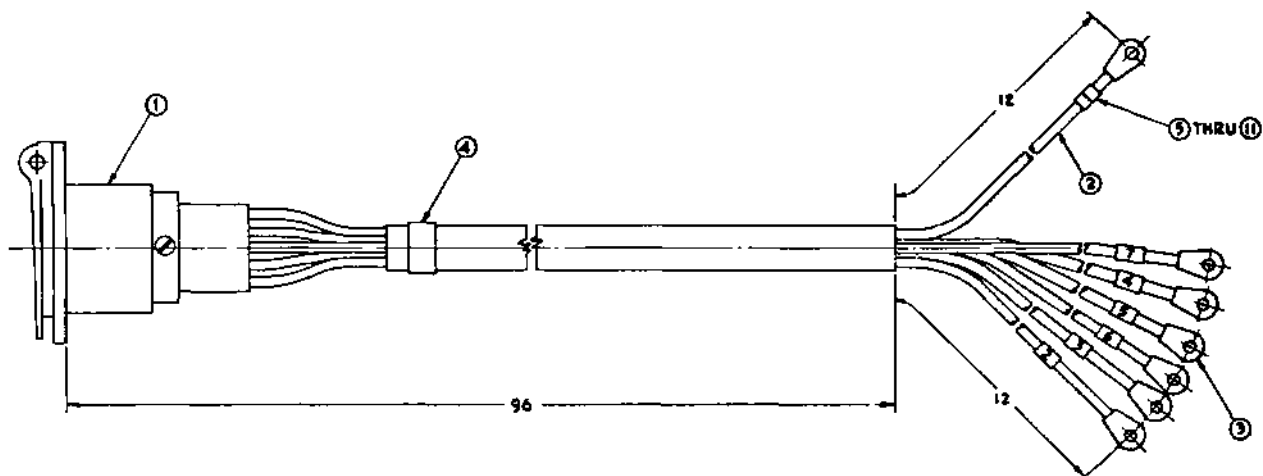


Figure G-13. Wiring harness 9048930.



REFER TO FIG. G-22 FOR  
ASSEMBLY INSTRUCTIONS

ITEM NO	QTY	CODE	DRG	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION
11	1	86306		MS 39020-1	BAND NO. 7
10	1	86306		MS 39020-1	BAND NO. 6
9	1	86306		MS 39020-1	BAND NO. 5
8	1	86306		MS 39020-1	BAND NO. 4
7	1	86306		MS 39020-1	BAND NO. 3
6	1	86306		MS 39020-1	BAND NO. 2
5	1	86306		MS 39020-1	BAND NO. 1
4	1	86306		MS 39020-2	BAND NO. 3670914
3	7				TERMINAL FOR #10 SCREW
2	AR	00000		7720853	CABLE
1	1		6	3296986	RECEPTACLE
LIST OF MATERIALS					

TA 096588

Figure G-14. Wiring harness 3670914.



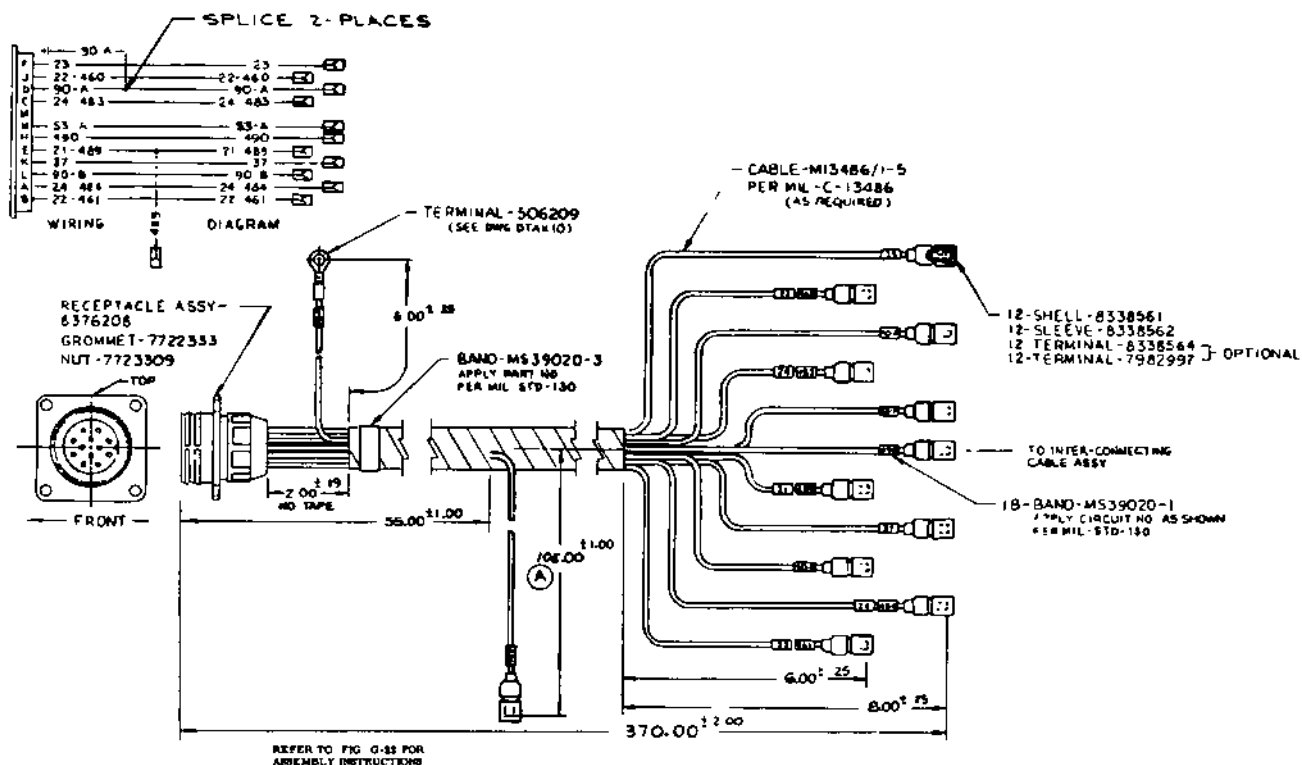
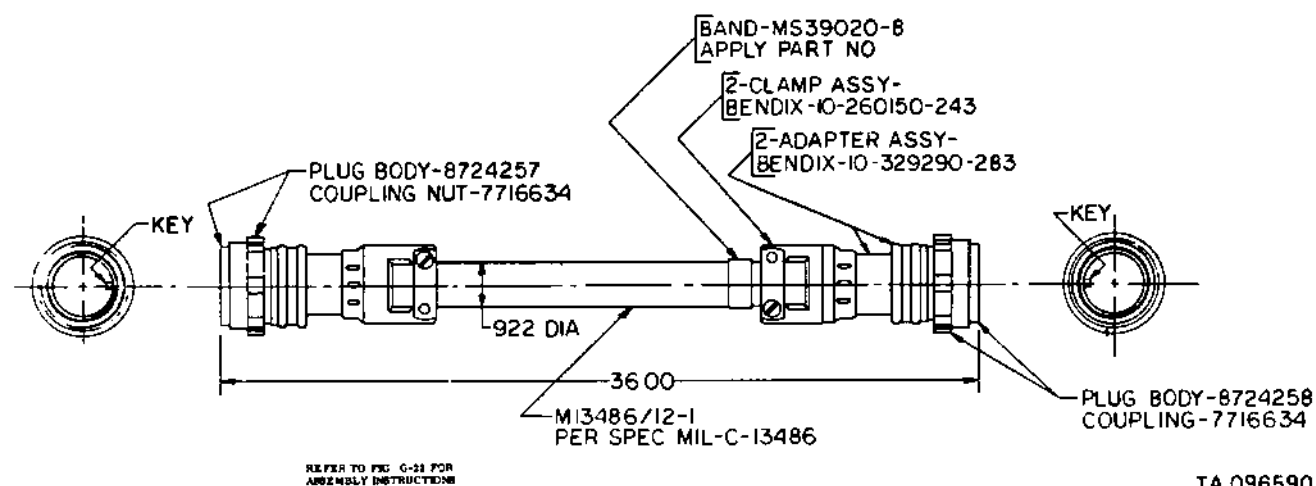
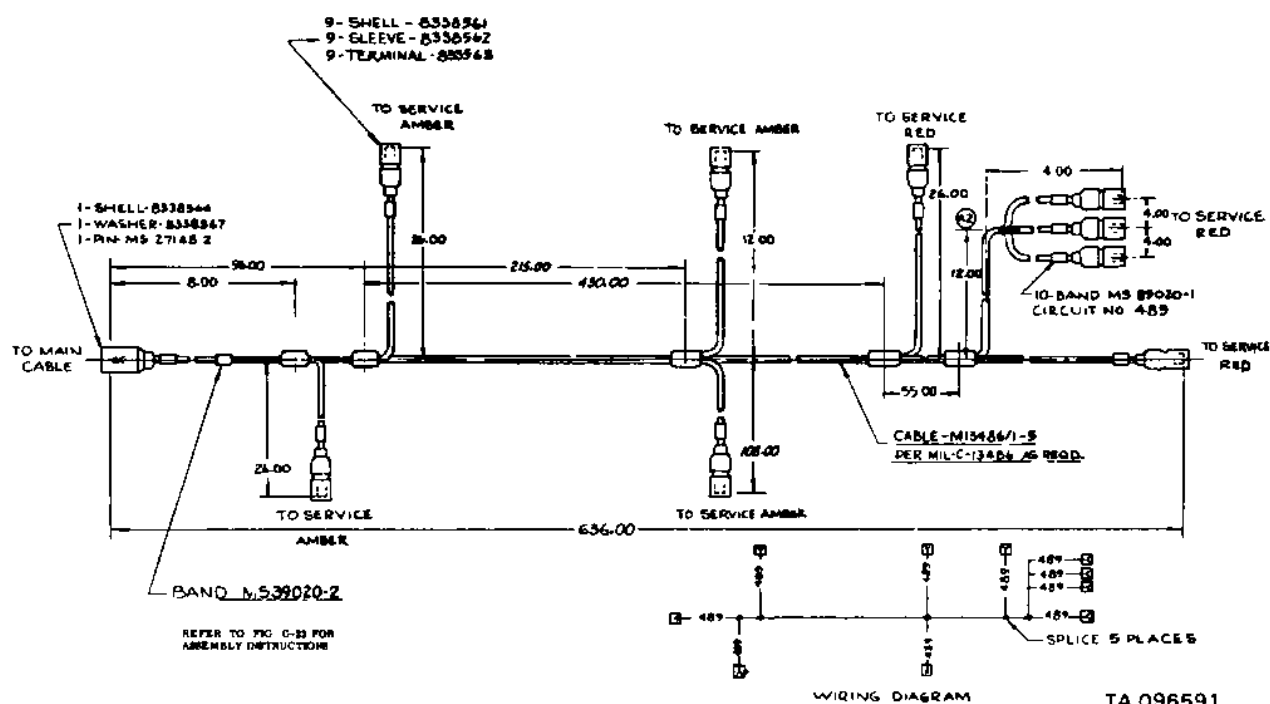


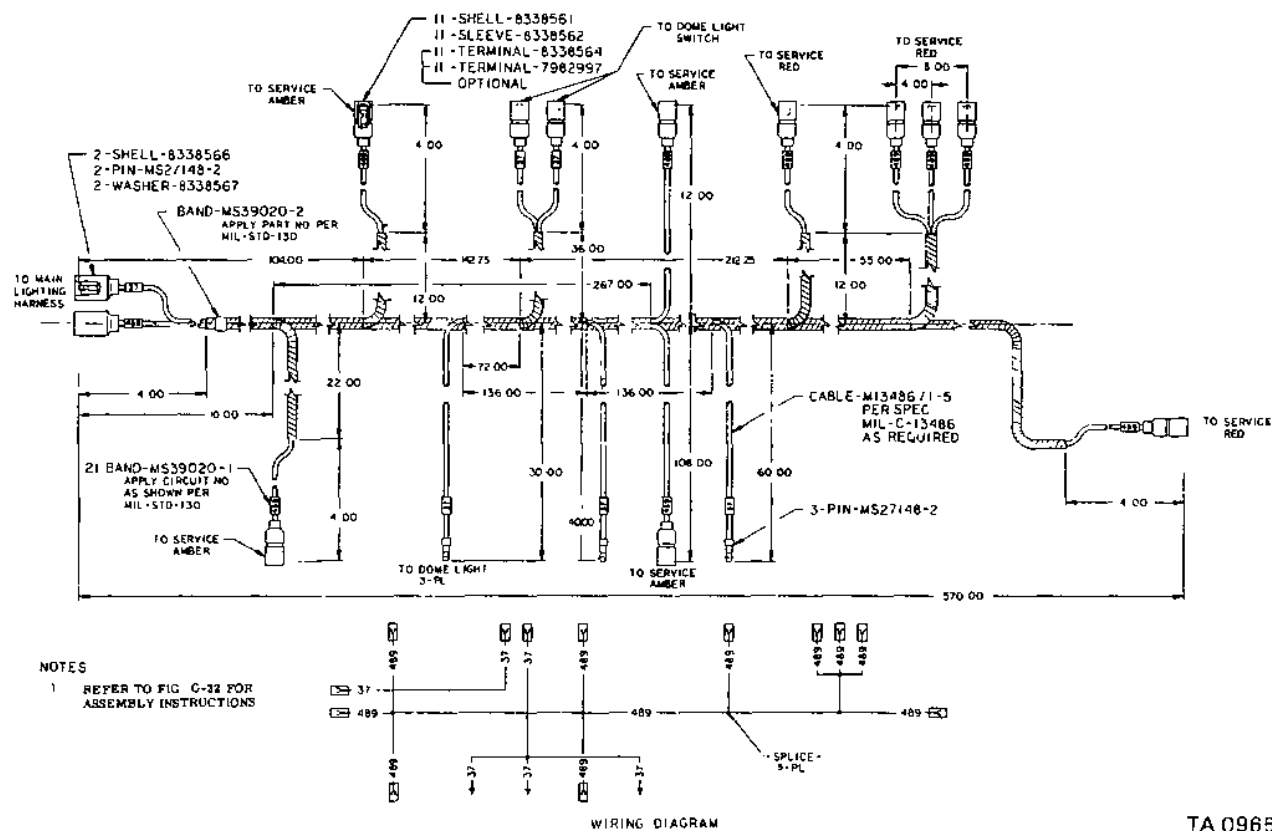
Figure G-17. Wiring harness 11684465.



TA 096590

Figure G-18. Cable assembly 11684315.





TA 096592

Figure G-21. Wiring harness 11684383.

1. **BINDING: (USE A OR B)**
  - A. CABLES SHALL BE BOUND TOGETHER WITH ONE HALF OVER-LAPPING TURNS OF TAPE, THICKNESS .010, WIDTH  $3/4 \pm 1/4$ , COLOR BLACK, SPEC HH-1-595, OR TAPE, TYPE EF-9, WIDTH  $3/4 \pm 1/4$ , COLOR BLACK, SPEC MIL-I-15126, OR
  - B. CABLES SHALL BE BOUND TOGETHER WITH ONE-HALF OVER-LAPPING TURNS OF INSULATION, TYPE A OR TYPE F, FORM TS, GRADE A, CLASS 1, THICKNESS .008, WIDTH  $3/4 \pm 1/4$ , COLOR BLACK, SPEC MIL-I-631. INSULATION MUST BE WRAPPED IN ACCORDANCE WITH BEST COMMERCIAL PRACTICE AND ENDS MUST BE SECURED TO PREVENT UNRAVELING.
2. **CRIMP.**

CRIMP PIN CONTACTS (FERRULES), TERMINALS AND SPLICING CONNECTORS TO CABLES (CONDUCTORS AND/OR INSULATION) TO MEET PERFORMANCE REQUIREMENTS OF SPEC MIL-T-13513.

NOTE: DO NOT DISTORT SKIRTS OF PIN CONTACTS (MS27148) WHEN CRIMPING TO CONDUCTORS.
3. **SOLDER:**

SOLDER CONDUCTORS TO PIN AND SOCKET CONTACTS AND (SOLDER-TYPE) TERMINALS AND TERMINAL ASSEMBLIES IN ACCORDANCE WITH REQUIREMENT 5 OF SPEC MIL-STD-454.
4. **SPLICE:**

SPLICED CONDUCTORS MUST MEET REQUIREMENTS OF SPEC MIL-T-13513 FOR PERFORMANCE.

SPLICED CONDUCTORS MUST BE ADEQUATELY INSULATED AND THE INSULATION MUST BE SEALED TO EACH CABLE'S INSULATION.

COMPLETED SPLICES MUST MEET THE REQUIREMENTS OF SPEC MIL-C-13486 FOR THE FOLLOWING PHYSICAL PROPERTIES: HIGH VOLTAGE TO GROUND (HIGH POTENTIAL), FUNGUS RESISTANCE, RESISTANCE TO OIL ABSORPTION, RESISTANCE TO IMMERSION IN LIQUIDS, FLAMMABILITY, RESISTANCE TO OZONE, HIGH TEMPERATURE RESISTANCE.

THE FOLLOWING SUGGESTED METHODS FOR INSULATING SPLICED CONDUCTORS HAVE DEMONSTRATED THEIR ABILITY TO MEET THE ABOVE REQUIREMENTS:

METHOD 1. — VULCANIZE, USING RUBBER, SYNTHETIC, GRADE SC 515 OR SC 615, A1, B1, C1, F1, SPEC MIL-R-3065. THICKNESS OF RUBBER OVER EXPOSED CONDUCTORS SHALL BE  $1/8$  TO  $5/32$  AND IS TO OVERLAP ADJACENT INSULATION FOR A DISTANCE OF AT LEAST  $3/16$  AND A MINIMUM THICKNESS OF  $1/32$  OR AS SPECIFIED ON DRAWING.

METHOD 2. — INSULATE, USING HEAT-SHRINKABLE, PREMOLDED SPLICE COVERS, TRANSITIONS AND BOOT CONFIGURATIONS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

APPROVED SOURCE: RAYCLAD TUBES, INC, REDWOOD CITY, CALIF.

ALL SOURCES MUST COMPLY WITH THE PHYSICAL AND FUNCTIONAL REQUIREMENTS OF THE MANUFACTURER'S ITEM INDICATED. ARMY ENGINEERING APPROVAL IS REQUIRED.
5. **PLUG ALL SPARE GROMMET HOLES WITH ROD OF DIAMETER AND LENGTH AS REQUIRED.**

TA 096502

*Figure G-22. Wiring harness assembly instructions.*



## APPENDIX H TORQUE LIMITS

### H-1. General

This appendix lists the torque limits used on XM991 and XM995 semitrailers.

### H-2. Torque Limits

The torque limits are listed in table H-1.

*Table H-1. Torque limits.*

Nut size	Torque limits (lb-ft)
<b>Air Ride Suspension and Air Mounted Kingpin</b>	
1/2 inch	25 lb-ft
5/8 inch	150 lb-ft
3/4 inch	200 lb-ft
3/4 inch (air spring only)	20 lb-ft
7/8 inch	300 lb-ft
1 inch	450 lb-ft
1 1/8 inch	700 lb-ft
1 1/4 inch	900 lb-ft
Piston nut inside air spring	50 lb-ft
Wheel nuts	450-500 lb-ft

## ALPHABETICAL INDEX

	Paragraph	Page
Absorber, shock, air mounted kingpin		
Installation and removal .....	4-59	4-65
Absorber shock, air suspension		
Installation and removal .....	4-57	4-62
Access opening components		
Inspection and repair .....	4-71	4-69
Installation .....	4-71	4-69
Removal of covers, hinges and cover shields .....	4-71	4-69
Removal of shield assembly .....	4-71	4-69
Additional authorization list .....	Appendix C	C-2
Adjustment		
Air mounted kingpin .....	4-58	4-64
Air suspension .....	4-56	4-59
Brake .....	4-32	4-40
Wheel bearing. ....	4-47	4-50
Aircraft loading, XM844, XM845 .....	4-4	4-1
Aircraft loading, XM844, XM845 .....	4-4	4-1
Aircraft loading, XM847, XM848, XM849, XM912, XM913 .....	4-5	4-4
Air chamber, brake		
Description .....	4-39	4-46
Installation .....	4-39	4-46
Leakage test .....	4-39	4-46
Push rod travel .....	4-39	4-46
Removal .....	4-39	4-46
Air conditioner, XM654		
Installation .....	9-2	9-1
Operation for cooling .....	2-14	2-8
Operation for heating .....	2-14	2-8
Remote control unit installation .....	9-3	9-2
Remote control unit removal .....	9-3	9-2
Removal .....	9-2	9-1
Air conditioner, XM680, XM580E1		
Installation .....	9-4	9-2
Operation for cooling .....	2-15	2-8
Operation for heating .....	2-15	2-8
Remote control unit installation .....	9-5	9-3
Remote control unit removal .....	9-5	9-3
Removal .....	9-4	9-2
Air conditioner, XM822		
Installation .....	9-6	9-4
Operation for cooling. ....	2-16	2-8
Operation for ventilation. ....	2-16	2-8
Remote control unit installation .....	9-7	9-4
Remote control unit removal .....	9-7	9-4
Removal .....	9-6	9-4
Air filter		
Description .....	4-31	4-37
Installation .....	4-40	4-47
Removal .....	4-40	4-47
Service .....	4-40	4-47
Air half coupling		
Cleaning. ....	4-43	4-48
Description .....	4-43	4-48
Inspection and replacement. ....	4-43	4-48
Installation .....	4-43	4-48
Operation .....	2-7	2-5
Packing removal and replacement .....	4-43	4-48
Removal and disassembly .....	4-43	4-48

	Paragraph	Page
Air and hydraulic hose, tubing, and fittings		
Removal and installation of hydraulic hose .....	4-44	4-49
Removal and installation of tube fittings .....	4-44	4-49
Serviceability test.....	4-44	4-49
Air line, emergency, brake system .....	4-31	4-37
Air line, service, brake system .....	4-31	4-37
Air mounted fifth wheel kingpin, XM847, XM848, XM849, XM850, XM912, XM913		
Adjustment.....	4-58	4-64
Description.....	4-58	4-64
Installation and removal of air spring .....	4-59	4-65
Installation and removal of fifth wheel plate and hinge components .....	4-59	4-65
Installation and removal of adjusting rod .....	4-59	4-65
Installation and removal of shock absorber .....	4-59	4-65
Theory of operation .....	4-58	4-64
Air reservoir		
Description.....	4-31	4-37
Installation .....	4-42	4-48
Leakage test .....	4-42	4-48
Removal .....	4-42	4-48
Air shipment, XM844, XM845 .....	4-4	4-1
Air shipment, XM847, XM848, XM849, XM912, XM913.....	4-5	4-4
Air spring, air mounted kingpin		
Installation and removal.....	4-59	4-65
Air spring, suspension system		
Installation and removal.....	4-57	4-62
Air Suspension system		
Adjustment.....	4-57	4-62
Description.....	4-57	4-62
Installation and removal of adjusting rod .....	4-58	4-64
Installation and removal of air spring .....	4-58	4-64
Installation and removal of axle connection and components .....	4-58	4-64
Installation and removal of height control valve .....	4-58	4-64
Installation and removal of rubber bushing .....	4-58	4-64
Installation and removal of shock absorber .....	4-58	4-64
Installation and removal of torsion bar .....	4-58	4-64
Theory of operation .....	4-57	4-62
Air Vent components		
Installation .....	4-70	4-68
Removal of screen.....	4-70	4-68
Removal of vent cover and rainshield .....	4-70	4-68
Axle, XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM822, XM823, XM824		
Assembly of new axle .....	6-2	6-1
Cleaning .....	6-2	6-1
Inspection .....	6-2	6-1
Installation .....	6-2	6-1
Removal .....	6-2	6-1
Repair.....	6-2	6-1
Axle, XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913		
Assembly of new axle .....	6-3	6-4
Cleaning .....	6-3	6-4
Inspection and repair .....	6-3	6-4
Installation .....	6-3	6-4
Removal .....	6-3	64
Axle and bracket assembly, XM574, XM574E1, XM654, XM680, XM680E1, XM738, XM739, XM789E1, XM822, XM823, XM824		
Installation .....	5-8	5-3
Removal .....	5-8	5-3
Spring seat .....	6-5	6-6
Axle connections and components, air suspension		
Installation and removal.....	4-57	4-62
Bearing, wheel		
Adjustment.....	4-47	4-50
Installation .....	4-47	4-50
Removal.....	4-47	4-50

	Paragraph	Page
Bleeding hydraulic brake system		
Manual bleeding .....	4-33	4-41
Pressure feed filler bleeding .....	4-33	4-41
Bows, tarpaulin .....	2-12	2-7
Brake adjustment .....	4-32	4-40
Brake air chamber		
Description .....	4-31	4-37
Installation .....	4-39	4-46
Leakage test .....	4-39	4-46
Push rod travel .....	4-39	4-46
Removal .....	4-39	4-46
Brake backing plate		
Inspection and repair .....	4-37	4-44
Installation .....	4-37	4-44
Removal .....	4-37	4-44
Brake drum		
Cleaning and inspection .....	4-47	4-50
Description .....	4-31	4-37
Inspection .....	4-47	4-50
Installation .....	4-47	4-50
Removal .....	4-47	4-50
Repair .....	6-4	6-6
Brakes, service		
Adjustment .....	4-32	4-40
Bleeding .....	4-33	4-41
Brake mechanism .....	4-31	4-37
Brake shoe inspection .....	4-35	4-42
Brake shoe installation .....	4-35	4-42
Brake shoe removal .....	4-35	4-42
Description .....	4-31	4-37
Principles of operation .....	4-31	4-37
Wheel cylinder installation .....	4-36	4-44
Wheel cylinder removal .....	4-36	4-44
Brake system hose, tubing, and fittings		
Installation .....	4-44	4-49
Removal .....	4-44	4-49
Serviceability test .....	4-44	4-49
Breaker, circuit, XM654, XM822		
Installation .....	4-20	4-32
Removal .....	4-20	4-32
Testing .....	4-20	4-32
Bumper, rear		
Installation .....	4-61	4-67
Removal .....	4-61	4-67
Cable, special, 12-volt .....	4-14	4-14
Carrier, spare wheel		
Cleaning .....	4-48	4-51
Description .....	4-48	4-51
Inspection and repair .....	4-48	4-51
Installation .....	4-48	4-51
Removal .....	4-48	4-51
Replacement of wire rope .....	4-48	4-51
Chamber, air brake		
Description .....	4-39	4-46
Installation .....	4-39	4-46
Leakage test .....	4-39	4-46
Push rod travel .....	4-39	4-46
Removal .....	4-39	4-46
Circuit breakers, XM654, XM822		
Installation .....	4-20	4-32
Removal .....	4-20	4-32
Testing .....	4-20	4-32
Cleaning .....	3-3	3-5

	Paragraph	Page
Clearance light		
Cleaning, inspection, and replacement .....	4-22	4-32
Description .....	4-22	4-32
Installation .....	4-22	4-32
Lamp replacement .....	3-9	3-11
Removal .....	4-22	4-32
Clock, time, XM822		
Installation .....	4-17	4-31
Removal .....	4-17	4-31
Clutch assembly, door		
Installation and removal .....	4-67	4-68
Cock, drain, air reservoir		
Description .....	2-8	
Installation .....	4-42	4-48
Leakage test .....	4-42	4-48
Removal .....	4-42	4-48
Components of end item .....	Appendix B	
Control unit, remote, air conditioner		
Installation, XM654 .....	9-3	9-2
Installation, XM680, XM680E1 .....	9-5	9-3
Installation, XM822 .....	9-7	9-4
Removal, XM654 .....	9-3	9-2
Removal, XM680, XM680E1 .....	9-5	9-3
Removal, XM822 .....	9-7	9-4
Control unit, remote, heater, XM822		
Installation of thermostatic switch .....	9-9	9-4
Removal of thermostatic switch .....	9-9	9-4
Coupling, air half		
Cleaning .....	4-43	4-48
Description .....	4-31	4-37
Inspection and replacement .....	4-43	4-48
Installation .....	4-43	4-48
Operation .....	2-7	
Packing removal and replacement .....	4-43	4-48
Removal and disassembly .....	4-43	4-48
Coupling, dummy		
Description .....	4-31	4-37
Operation .....	2-7	2-5
Coupling semitrailer to towing vehicle .....	2-2	2-1
Crank, landing gear .....	2-5	2-2
Cylinder, master, hydraulic		
Description .....	4-31	4-37
Installation .....	4-38	4-46
Removal .....	4-38	4-46
Service .....	4-38	4-46
Cylinder, wheel		
Description .....	4-31	4-37
Installation .....	4-36	4-44
Removal .....	4-36	4-44
Data, tabulated .....	1-10	1-39
Decontamination port components		
Installation .....	4-69	4-68
Removal of cover gasket .....	4-70	4-69
Removal of housing gasket .....	4-70	4-69
Removal of screen and gasket .....	4-70	4-68
Destruction of army materiel to prevent enemy use		
Differences in models .....	1-8	1-37
Dolly assembly		
Description .....	4-72	4-69
Installation .....	4-72	4-70
Removal .....	4-72	4-70

	Paragraph	Page
Doors		
Cleaning .....	4-64	4-67
Clutch assembly .....	4-67	4-68
Gasket, handle .....	4-68	4-68
Hinges .....	4-65	4-67
Inspection and repair .....	4-64	4-67
Installation .....	4-64	4-67
Lock .....	4-66	4-68
Removal .....	4-64	4-67
Seals.....	4-68	4-68
Dram cock, air reservoir		
Cleaning and inspection .....	4-42	4-48
Description.....	2-8	2-5
Installation .....	4-42	4-48
Leakage test .....	4-42	4-48
Removal .....	4-42	4-48
Drum, brake		
Cleaning .....	4-47	4-50
Description.....	4-31	4-37
Inspection .....	6-4	6-6
Inspection and replacement .....	4-47	4-50
Installation .....	4-47	4-50
Removal .....	4-47	4-50
Repair .....	6-4	6-6
Emergency air line, brake system .....	4-31	4-40
Escape lock assembly .....	2-13	2-7
Equipment data.....	1-10	1-39
Expendable supplies and materials .....	Appendix F	F-2
External power entry receptacle, XM822		
Cleaning and inspection .....	4-16	4-31
Installation .....	4-16	4-31
Removal .....	4-16	4-31
Extinguisher, fire .....	2-18	2-9
Extreme cold weather maintenance .....	4-75	4-71
Extreme hot weather maintenance .....	4-76	4-71
Fifth wheel plate, air mounted kingpin		
Installation and removal.....	4-59	4-66
Fifth wheel plate, resilient kingpin		
Installation and removal.....	4-60	4-66
Fire extinguisher .....	2-18	2-9
Fording operation.....	2-26	2-11
Forms, records and reports .....	1-2	1-1
Gasket, decontamination port		
Installation .....	4-69	4-68
Removal .....	4-69	4-68
Gasket, door handle .....	4-68	4-68
Gear, landing, rigid		
Assembly .....	7-6	7-2
Cleaning and inspection .....	4-51	4-54
Crank .....	2-5	2-2
Disassembly .....	7-3	7-1
Inspection and repair .....	7-5	7-1
Installation .....	4-51	4-54
Installation of wheels .....	4-51	4-54
Operation.....	2-5	2-2
Removal .....	4-51	4-52
Removal of wheels .....	4-51	4-52
Gear, landing, swing-up		
Cleaning and inspection .....	4-52	4-54
Description.....	4-52	4-52
Installation .....	4-52	4-54
Operation.....	2-6	2-4
Removal .....	4-52	4-54
Guard, splash		
Installation .....	4-62	4-67
Removal .....	4-62	4-67

	Paragraph	Page
Harness, wiring		
Installation .....	5-4	5-2
Removal .....	5-4	5-2
Replacement of single wires .....	5-6	5-2
Heater thermostatic switch		
Installation .....	9-9	9-4
Removal .....	9-9	9-4
Heating system, XM822		
Description .....	2-17	2-9
Installation .....	9-9	9-4
Installation of heating element .....	9-9	9-4
Installation of thermostatic switch .....	9-9	9-4
Operation .....	2-17	2-9
Removal of heating element .....	9-9	9-4
Removal of thermostatic switch .....	9-9	9-4
Removal .....	9-9	9-4
Hinge, door		
Removal and installation .....	4-65	4-67
Hose, tubing and fittings		
Removal and installation of hydraulic hose .....	4-44	4-49
Removal and installation of tube fittings .....	4-44	4-49
Serviceability test .....	4-44	4-49
Hub and brake drum assembly		
Installation on axle .....	4-47	4-50
Removal from axle .....	4-47	4-50
Hub, wheel		
Description .....	4-31	4-37
Inspection .....	4-47	4-50
Installation .....	4-47	4-50
Removal .....	4-47	4-50
Hydraulic and air hose, tubing, and fittings		
Removal and installation of hydraulic hose .....	4-44	4-49
Removal and installation of tube fittings .....	4-44	4-49
Serviceability test .....	4-44	4-49
Identification marking .....	3-5	3-5
Identification Plate		
Description .....	1-9	1-39
Inspection .....	4-73	4-73
Installation .....	4-73	4-73
Removal .....	4-73	4-73
Inspection and servicing equipment .....	4-2	4-1
Intervehicular cable receptacle		
Cleaning and inspection .....	4-15	4-30
Installation .....	4-15	4-30
Removal .....	4-15	4-30
Jack, leveling		
Description .....	4-49	4-52
Inspection .....	4-49	4-52
Installation .....	4-49	4-52
Operation .....	2-10	2-6
Removal .....	4-49	4-52
Jack, leveling, center, XM738, XM739, XM739E1		
Inspection .....	4-50	4-52
Installation .....	4-50	4-52
Removal .....	4-50	4-52
Kingpin, air mounted		
Adjustment .....	4-58	4-65
Description .....	4-58	4-64
Installation and removal of air spring .....	4-59	4-65
Installation and removal of fifth wheel plate and hinge components .....	4-59	4-66
Installation and removal of shock absorber .....	4-59	4-66
Kingpin, resilient		
Description .....	4-60	4-66
Installation .....	4-60	4-66
Removal .....	4-60	4-66

	Paragraph	Page
Ladders		
Description .....	2-11	2-7
Installation .....	2-11	2-7
Landing gear, rigid		
Assembly .....	7-6	7-2
Cleaning .....	7-4	7-1
Cleaning and inspection .....	4-51	4-53
Description .....	4-51	4-52
Disassembly .....	7-3	7-1
Inspection and repair .....	7-5	7-1
Installation .....	4-51	4-54
Installation of wheels .....	4-51	4-54
Operation .....	2-5	2-2
Removal .....	4-51	4-52
Removal of wheels .....	4-51	4-54
Landing gear, swing-up		
Cleaning and inspection .....	4-52	4-54
Description .....	4-52	4-54
Installation .....	4-52	4-54
Operation .....	2-6	2-4
Swing-up procedure .....	2-6	2-4
Removal .....	4-52	4-52
Leakage test		
Air reservoir .....	4-42	4-48
Brake air chamber .....	4-39	4-46
Drain cock .....	4-42	4-48
Hose and tubing .....	4-44	4-49
Relay valve .....	4-41	4-47
Level assembly		
Description .....	4-74	4-70
Installation .....	4-74	4-70
Removal .....	4-74	4-70
Leveling jack		
Description .....	4-49	4-52
Inspection .....	4-49	4-52
Installation .....	4-49	4-52
Operation .....	2-10	2-6
Removal .....	4-49	4-52
Leveling jack, center		
Inspection .....	4-50	4-52
Installation .....	4-50	4-52
Removal .....	4-50	4-52
Leveling, van body .....	2-10	2-7
Light, blackout, dome, 110-volt, XM822		
Cleaning, inspection and repair .....	4-29	4-36
Installation .....	4-29	4-36
Lamp installation .....	3-16	3-12
Lamp removal .....	3-16	3-12
Removal .....	4-29	4-36
Light, blackout stop, all models except XM822, XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913		
Assembly .....	4-24	4-34
Cleaning .....	4-24	4-34
Disassembly .....	4-24	4-34
Inspection and replacement .....	4-24	4-34
Installation .....	4-24	4-34
Lamp installation .....	3-10	3-11
Lamp removal .....	3-10	3-11
Removal .....	4-24	4-34
Light, composite, spotlight, taillight, XM822, XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913		
Cleaning .....	4-25	4-34
Disassembly .....	4-25	4-34
Inspection .....	4-25	4-35
Installation .....	4-25	4-35
Lamp replacement .....	3-12	3-11
Removal .....	4-25	4-34



	Paragraph	Page
Light, dome, 24-volt, all models except XM912, XM913		
Cleaning .....	4-27	4-35
Inspection and repair .....	4-27	4-35
Installation .....	4-27	4-35
Lamp installation .....	3-14	3-12
Lamp removal .....	3-14	3-12
Removal .....	4-27	4-35
Light, dome, 110-volt, XM654, XM680, XM680E1, XM822		
Cleaning, inspection and repair .....	4-28	4-36
Installation .....	4-28	4-36
Lamp installation .....	3-15	3-12
Lamp removal .....	3-15	3-12
Removal .....	4-28	4-36
Light, marker clearance		
Cleaning, inspection and replacement .....	4-22	4-32
Description .....	4-22	4-32
Installation .....	4-22	4-32
Lamp replacement .....	3-9	3-11
Removal .....	4-22	4-32
Light, stoplight, ICC, XM654		
Cleaning .....	4-26	4-35
Inspection and repair .....	4-26	4-35
Installation .....	4-26	4-35
Lamp installation .....	3-13	3-12
Lamp removal .....	3-13	3-11
Removal .....	4-26	4-35
Light, stoplight, taillight, all models except XM822, XM844, XM845, XM847, XM848, XM849, XM850, XM912, XM913		
Assembly .....	4-23	4-33
Cleaning .....	4-23	4-33
Disassembly .....	4-23	4-33
Inspection .....	4-23	4-33
Installation .....	4-23	4-33
Lamp installation .....	3-11	3-11
Lamp removal .....	3-11	3-11
Removal .....	4-23	4-33
Lighting fixture, fluorescent		
Ballast installation .....	4-30	4-37
Ballast removal .....	4-30	4-36
Cleaning, inspection and repair .....	4-30	4-36
Installation .....	4-30	4-37
Lamp installation .....	3-17	3-12
Lamp removal .....	3-17	3-12
Removal .....	4-30	4-36
Loading, aircraft, XM844, XM845	4-4	4-2
Loading, aircraft, XM847, XM848, XM849, XM912, XM913	4-5	4-4
Lock, door		
Inspection and repair .....	4-66	4-68
Installation .....	4-66	4-68
Removal .....	4-66	4-68
Lock, door, escape		
Inspection and repair .....	4-66	4-68
Installation .....	4-66	4-68
Operation .....	2-13	2-7
Removal .....	4-66	4-68
Lubrication .....	3-2	3-5
Maintenance		
After fording .....	4-77	4-71
Cold weather .....	4-75	4-71
Hot weather .....	4-76	4-71
Operation on unusual terrain .....	4-78	4-71
Maintenance allocation chart .....	Appendix D	D-2
Maintenance, preventive, checks and services		
Operator .....	3-7	3-7
Organizational .....	4-11	4-7
Marking, identification .....	3-5	3-5

	Paragraph	Page
Master cylinder		
Description .....	4-31	4-37
Installation .....	4-38	4-46
Removal .....	4-38	4-46
Service .....	4-38	4-46
Movement to new worksite .....	4-3	4-1
Operating test		
Relay valve .....	4-41	4-47
Operation under unusual conditions		
Dusty or sandy areas .....	2-22	2-10
Extreme cold .....	2-20	2-9
Extreme heat .....	2-21	2-10
Fording .....	2-26	2-11
Humid or rainy conditions .....	2-24	2-10
Mud and snow .....	2-23	2-10
Salt water areas .....	2-25	2-11
Painting .....	3-5	3-5
Pintle assembly		
Inspection .....	4-63	4-67
Installation .....	4-63	4-67
Removal .....	4-63	4-67
Plate, backing, brake		
Inspection and repair .....	4-37	4-45
Installation .....	4-37	4-45
Removal .....	4-37	4-44
Plate, Identification		
Description .....	1-9	1-39
Inspection .....	4-73	4-70
Removal and installation .....	4-73	4-70
Power receptacle, XM822		
Cleaning and inspection .....	4-16	4-31
Description .....	4-16	4-30
Installation .....	4-16	4-31
Removal .....	4-16	4-31
Preparing semitrailer for operation .....	2-4	2-1
Preventive maintenance checks and services		
Operator .....	3-7	3-7
(see table 3-1)		
Organizational .....	4-11	4-7
(see table 4-1)		
Purging ducts, XM822 .....	1-8	1-37
Purging time clock, XM822		
Installation .....	4-17	4-31
Removal .....	4-17	4-31
Quality assurance/quality control .....	1-5	1-1
Railroad shipment of semitrailer .....	4-6	4-7
Receptacle, 110-volt, XM654, XM680, XM680E1, XM822		
Installation and removal .....	4-19	4-32
Receptacle, intervehicular cable		
Cleaning and inspection .....	4-15	4-30
Installation .....	4-15	4-30
Removal .....	4-15	4-30
Records .....	1-2	1-1
References .....	Appendix A	
Reflector		
Installation .....	4-21	4-32
Removal .....	4-21	4-32
Relay valve		
Description .....	4-31	4-37
Drainage of moisture .....	4-41	4-47
Installation .....	4-41	4-48
Leakage test .....	4-41	4-48
Operating test .....	4-41	4-47
Removal .....	4-41	4-48

	Paragraph	Page
Remote control unit, air conditioner		
Installation, XM654 .....	9-3	9-2
Installation, XM680, XM680E1 .....	9-5	9-4
Installation, XM822 .....	9-7	9-4
Removal, XM654 .....	9-3	9-2
Removal, XM680, XM680E1 .....	9-5	9-3
Removal, XM822 .....	9-7	9-4
Remote control unit, heater, XM822		
Installation of thermostatic switch .....	9-9	9-5
Removal of thermostatic switch .....	9-9	9-5
Repair parts and special tools list .....	Appendix E	E-1
Repair standards .....	table 6-1	6-3
Reservoir, air		
Description .....	4-42	4-48
Installation .....	4-42	4-48
Leakage test .....	4-42	4-48
Removal .....	4-42	4-48
Resilient kingpin		
Description .....	4-60	4-66
Installation .....	4-60	4-66
Removal .....	4-60	4-66
Rod, torque		
Cleaning .....	8-3	8-2
Inspection and repair .....	8-3	8-2
Installation .....	4-55	4-58
Removal .....	4-55	4-58
Rubber bushing, air suspension		
Installation and removal .....	4-57	4-62
Screen, air vent		
Installation and removal .....	4-70	4-69
Screen, decontamination port		
Installation and removal .....	4-69	4-68
Seal, door		
Removal and installation .....	4-68	4-68
Seat, spring		
Installation .....	4-54	4-58
Removal .....	4-54	4-57
Service air line, brake system .....	4-31	4-37
Serviceability test		
Air and hydraulic tube and hose .....	4-44	4-49
Servicing equipment .....	4-2	4-1
Shield assembly, access opening		
Installation and removal .....	4-71	4-69
Shipment, air .....	4-5	4-4
Shipment, railroad .....	4-6	4-7
Shock absorber, air mounted kingpin		
Installation and removal .....	4-59	4-65
Shock absorber, air suspension		
Installation and removal .....	4-57	4-62
Spare wheel carrier		
Cleaning .....	4-48	4-51
Description .....	4-48	4-51
Inspection and repair .....	4-48	4-51
Installation .....	4-48	4-52
Removal .....	4-48	4-51
Replacement of wire rope .....	4-48	4-51
Spare wheel and tire		
Removal and installation .....	2-9	2-6
Splash guard		
Installation .....	4-62	4-67
Removal .....	4-62	4-67
Spring, air, air mounted kingpin		
Installation and removal .....	4-59	4-66
Spring, air, air suspension		
Installation and removal .....	4-57	4-63

	Paragraph	Page
Spring seat, axle and bracket assembly		
Cleaning .....	6-5	6-6
Inspection and repair .....	6-5	6-6
Installation .....	6-5	6-7
Removal .....	6-5	6-6
Springs		
Assembly of helper spring .....	8-2	8-2
Assembly of main spring .....	8-2	8-2
Cleaning .....	8-2	8-1
Cleaning spring leaves .....	8-2	8-2
Disassembly .....	8-2	8-1
Inspection and repair .....	8-2	8-1
Installation .....	4-53	4-57
Removal .....	4-53	4-55
Support and adjuster assembly		
Inspection and repair .....	4-37	4-45
Installation .....	4-37	4-45
Removal .....	4-37	4-44
Switches		
Blackout override, installation and removal .....	4-18	4-31
Dome light, installation and removal .....	4-18	4-31
Door operated blackout, installation and removal .....	4-18	4-31
Thermostatic, heater, installation and removal .....	9-9	9-5
Tabulated data .....	1-10	1-39
Tarpaulin and bows .....	2-12	2-7
Timer, clock, purging, XM822		
Installation .....	4-17	4-31
Removal .....	4-17	4-31
Torque rods		
Cleaning .....	8-3	8-2
Inspection and repair .....	8-3	8-2
Installation .....	8-3	8-2
Installation and removal of lower torque rods .....	4-55	4-58
Installation and removal of upper torque rods .....	4-55	4-58
Torsion bar, air suspension		
Installation and removal .....	4-57	4-62
Troubleshooting		
Operator .....	3-8	3-9
Organizational .....	4-13	4-10
Direct and general support .....	5-3	5-1
Tube fittings .....	4-44	4-49
Tubing .....	4-44	4-49
Uncoupling semitrailer from towing vehicle .....	2-3	2-1
Valve, relay		
Description .....	4-41	4-47
Installation .....	4-41	4-48
Leakage test .....	4-41	4-48
Operating test .....	4-41	4-47
Removal .....	4-41	4-48
Wheel and tire		
Description .....	3-18	3-12
Installation .....	3-18	3-13
Removal .....	3-18	3-12
Wheel bearing		
Adjusting .....	4-47	4-50
Installation .....	4-47	4-50
Removal .....	4-47	4-50
Wheel cylinder		
Installation .....	4-36	444
Removal .....	4-36	4-44
Wiring harness		
Installation .....	5-4	52
Removal .....	5-4	52
Replacement of single wires .....	5-6	52

By Order of the Secretary of the Army:

Official:

ROBERT M. JOYCE  
Major General, United States Army  
The Adjutant General

JOHN A. WICKHAM, JR.  
General, United States Army  
Chief of Staff

Distribution:

To be distributed in accordance with DA Form 12-39, TM requirements for Vehicle, Semitrailer, Van, Electronic, XM574, XM654, XM680, XM703, XM738, XM739.

\* U.S. GOVERNMENT PRINTING OFFICE 1984-430-147

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



THEN... JOT DOWN THE  
DOPE ABOUT IT ON THIS  
FORM, CAREFULLY TEAR IT  
OUT, FOLD IT AND DROP IT  
IN THE MAIL!

**SOMETHING WRONG** WITH THIS PUBLICATION?

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER

PUBLICATION DATE

PUBLICATION TITLE

BE EXACT... PIN-POINT WHERE IT IS

PAGE  
NO.

PARA-  
GRAPH

FIGURE  
NO.

TABLE  
NO.

IN THIS SPACE TELL WHAT IS WRONG  
AND WHAT SHOULD BE DONE ABOUT IT:

TEAR ALONG PERFORATED LINE

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

SIGN HERE:

DA FORM 2028-2  
1 JUL 78

PREVIOUS EDITIONS  
• ARE OBSOLETE.

P.S.—IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR  
RECOMMENDATION MAKE A CARBON COPY OF THIS  
AND GIVE IT TO YOUR HEADQUARTERS.

## THE METRIC SYSTEM AND EQUIVALENTS

### LINEAR MEASURE

1 Centimeter = 10 Millimeters = 0.01 Meters =  
0.3937 Inches  
1 Meter = 100 Centimeters = 1,000 Millimeters =  
39.37 Inches  
1 Kilometer = 1,000 Meters = 0.621 Miles

### SQUARE MEASURE

1 Sq Centimeter = 100 Sq Millimeters = 0.155 Sq Inches  
1 Sq Meter = 10,000 Sq Centimeters = 10.76 Sq Feet  
1 Sq Kilometer = 1,000,000 Sq Meters = 0.386 Sq Miles

### CUBIC MEASURE

1 Cu Centimeter = 1,000 Cu Millimeters = 0.06 Cu Inches  
1 Cu Meter = 1,000,000 Cu Centimeters = 35.31 Cu Feet

### LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces  
1 Liter = 1,000 Milliliters = 33.82 Fluid Ounces

### TEMPERATURE

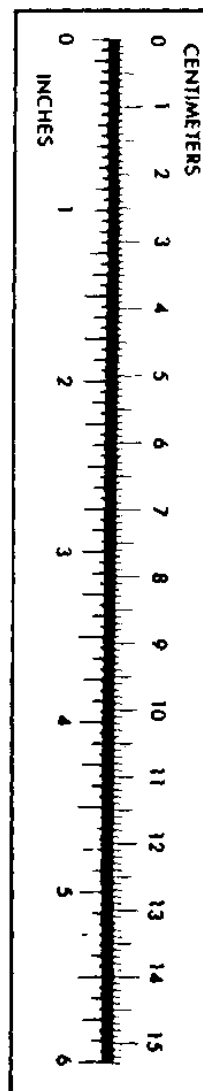
$5/9 (^{\circ}\text{F} - 32) = ^{\circ}\text{C}$   
212° Fahrenheit is equivalent to 100° Celsius  
90° Fahrenheit is equivalent to 32.2° Celsius  
32° Fahrenheit is equivalent to 0° Celsius  
 $9/5 ^{\circ}\text{C} + 32 = ^{\circ}\text{F}$

### WEIGHTS

1 Gram = 0.001 Kilograms = 1,000 Milligrams =  
0.035 Ounces  
1 Kilogram = 1,000 Grams = 2.2 lb.  
1 Metric Ton = 1,000 Kilograms = 1 Megagram =  
1.1 Short Tons

### APPROXIMATE CONVERSION FACTORS

TO CHANGE	TO	MULTIPLY BY
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6.451
Square Feet	Square Meters	0.093
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29.573
Pints	Liters	0.473
Quarts	Liters	0.946
Gallons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	0.907
Pound-Feet	Newton-Meters	1.356
Pounds Per Square Inch	Kilopascals	6.895
Miles Per Gallon	Kilometers Per Liter	0.425
Miles Per Hour	Kilometers Per Hour	1.609
TO CHANGE	TO	MULTIPLY BY
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
Square Centimeters	Square Inches	0.155
Square Meters	Square Feet	10.764
Square Meters	Square Yards	1.196
Square Kilometers	Square Miles	0.386
Square Hectometers	Acres	2.471
Cubic Meters	Cubic Feet	35.315
Cubic Meters	Cubic Yards	1.308
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
Liters	Gallons	0.264
Grams	Ounces	0.035
Kilograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pound-Feet	0.738
Kilopascals	Pounds Per Square Inch	0.145
Kilometers Per Liter	Miles Per Gallon	2.354
Kilometers Per Hour	Miles Per Hour	0.621



**PIN: 054733-000**