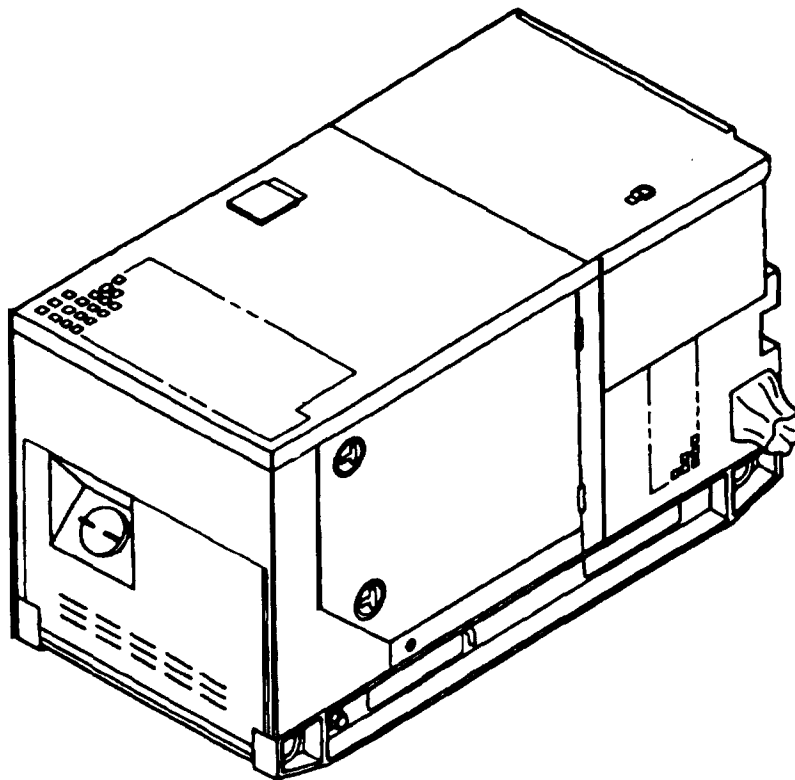


This copy is a reprint which includes current
pages from Changes 1 through 4.

ARMY TM 9-6115-642-24
AIR FORCE TO 35C2-3-455-12
MARINE CORPS TM 09247A/09248A-24/2

**TECHNICAL MANUAL
UNIT, DIRECT SUPPORT AND
GENERAL SUPPORT MAINTENANCE MANUAL**



**GENERATOR SET,
SKID MOUNTED, TACTICAL QUIET**

10 KW, 60 AND 400 Hz

MEP-803A (60 Hz) 6115-01-275-5061

MEP-813A (400 Hz) 6115-01-274-7392

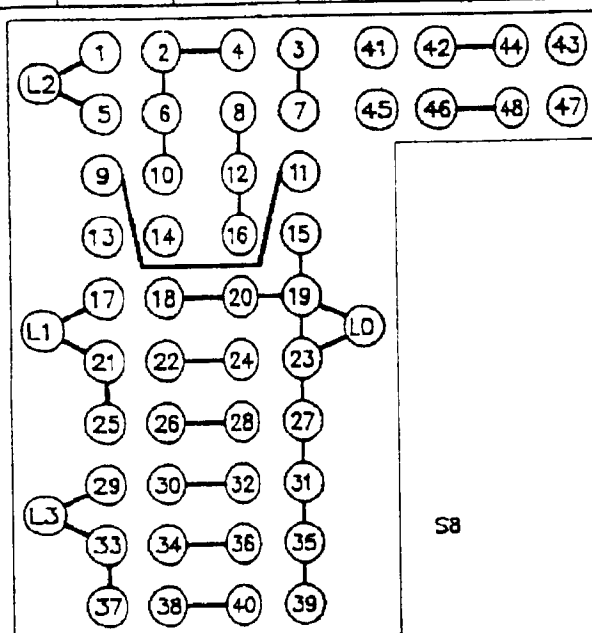
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**DEPARTMENTS OF THE ARMY AND THE AIR FORCE,
AND HEADQUARTERS, U.S. MARINE CORPS
1 SEPTEMBER 1993**

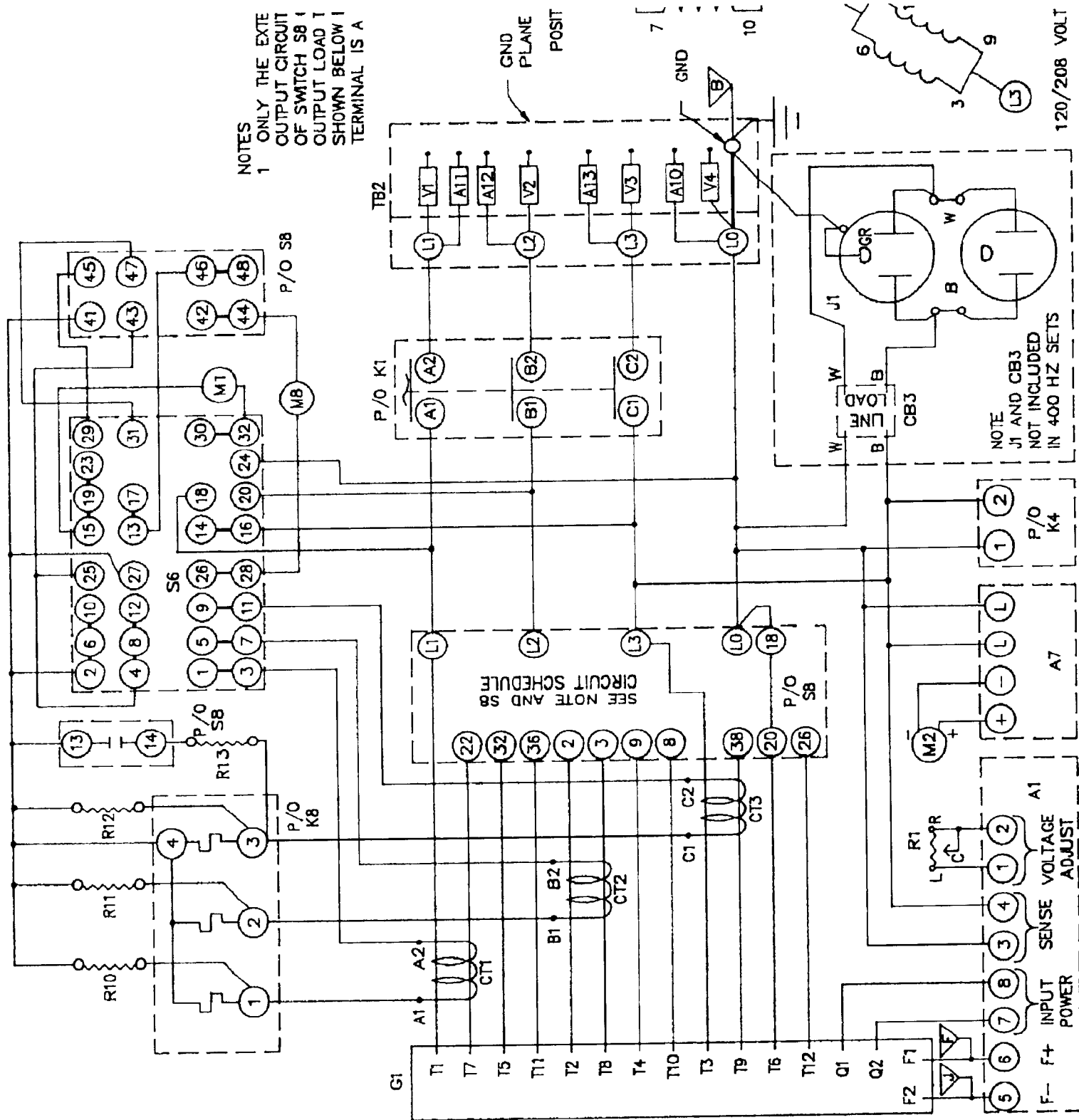
A1	AC VOLTAGE REGULATOR	L0	OUTPUT TERMINAL
A2	MAFUNCTION INDICATOR	L1	OUTPUT TERMINAL
A7	FREQUENCY TRANSDUCER	L2	OUTPUT TERMINAL
A9	FLOAT SWITCH MODULE	L3	OUTPUT TERMINAL
A10-A13	EMI FILTER	L4	STARTER SOLENOID
B1	CRANKING MOTOR	L5	FUEL SOLENOID
BT1	BATTERY 12V	M1	AC VOLTMETER
BT2	BATTERY 12V	M2	FREQUENCY METER
CB1	DC CONTROL POWER CIRCUIT BREAKER	M3	TIME METER
CB3	GROUND FAULT CIRCUIT INTERRUPTER	M4	BATTERY CHARGING AMMETER
CBGND	CONTROL BOX GROUND	M5	FUEL LEVEL INDICATOR
CPGND	CONTROL PANEL GROUND	M6	COOLANT TEMPERATURE INDICATOR
CR	DIODES	M7	OIL PRESSURE INDICATOR
CT1	CURRENT TRANSFORMER	M8	AC AMMETER
CT2	CURRENT TRANSFORMER	MPU	MAGNETIC PICKUP
CT3	CURRENT TRANSFORMER	MT4	BATTERY CHARGING AMMETER SHUNT
DS1	PANEL LIGHT	MT5	FUEL LEVEL SENDER
DS2	PANEL LIGHT	MT6	COOLANT TEMPERATURE SENDER
DS3	PANEL LIGHT	MT7	OIL PRESSURE SENDER
DS6	IND LT BATTLE SHORT	OP	LOW OIL PRESSURE SWITCH
DS7	IND LT AC CIRCUIT INTERRUPTER	P4	PLUG MALFUNCTION INDICATOR
E1	AUXILIARY FUEL PUMP	R1	VOLTAGE ADJUST POTENTIOMETER
E2	FUEL PUMP	R10	BURDEN RESISTOR
FL1	LOW FUEL LEVEL FLOAT SWITCH	R11	BURDEN RESISTOR
FL2	AUXILIARY FUEL PUMP FLOAT SWITCH	R12	BURDEN RESISTOR
FU1	FUSE	R13	BURDEN RESISTOR
G1	AC GENERATOR	R14	FIELD FLASH RESISTOR
G2	BATTERY CHARGING ALTERNATOR	R15	LED RESISTOR
GND	GROUND	S1	MASTER SWITCH
HT	COOLANT HIGH TEMPERATURE SWITCH	S2	PANEL LIGHT SWITCH
HTR	ENGINE PRE HEATER	S5	AC CIRCUIT INTERRUPTER SWITCH
J1	CONVENIENCE RECEPTACLE	S6	AM/VM TRANSFER SWITCH
J3	DIAGNOSTIC RECEPTACLE	S7	BATTLE SHORT SWITCH
K1	AC CIRCUIT INTERRUPTER	S8	VOLTAGE RECONNECTION SWITCH
K2	CRANKING RELAY	S10	DEAD CRANK SWITCH
K4	OVERVOLTAGE RELAY	S14	CRANK DISCONNECT SWITCH
K8	OVERLOAD/SHORT CIRCUIT RELAY	S17	EMERGENCY STOP SWITCH
K12	ENGINE FAULT RELAY	SR1	SLAVE RECEPTACLE
K15	FIELD FLASH RELAY	SRGND	SLAVE RECEPTACLE GROUND
K16	CRANK DISCONNECT RELAY	TB2	OUTPUT LOAD TERMINAL BOARD
K18	PRE HEAT RELAY	TB	TERMINAL BOARD(S)
K19	FUEL LEVEL RELAY	V1 V4	VARISTOR AC LOAD LINES
K20	OIL PRESSURE RELAY	V5	VARISTOR DC SYSTEM

S6 CIRCUIT SCHEDULE			
POSITION			
1 PHASE L3 - L1 L3	1 - 2 7 - 8 9 - 10	15 - 16 17 - 18	31 - 32 27 - 28
1 PHASE L3 - L0 L3	1 - 2 7 - 8 9 - 10	13 - 14 23 - 24	31 - 32 27 - 28
3 PHASE L1 - L2 L1	3 - 4 5 - 6 9 - 10	17 - 18 19 - 20	29 - 30 25 - 26
3 PHASE L2 - L3 L2	1 - 2 7 - 8 9 - 10	13 - 14 19 - 20	29 - 30 25 - 26
3 PHASE L3 - L1 L3	1 - 2 5 - 6 11 - 12	15 - 16 17 - 18	29 - 30 25 - 26
3 PHASE L3 - L0 L3	1 - 2 5 - 6 11 - 12	13 - 14 23 - 24	29 - 30 25 - 26

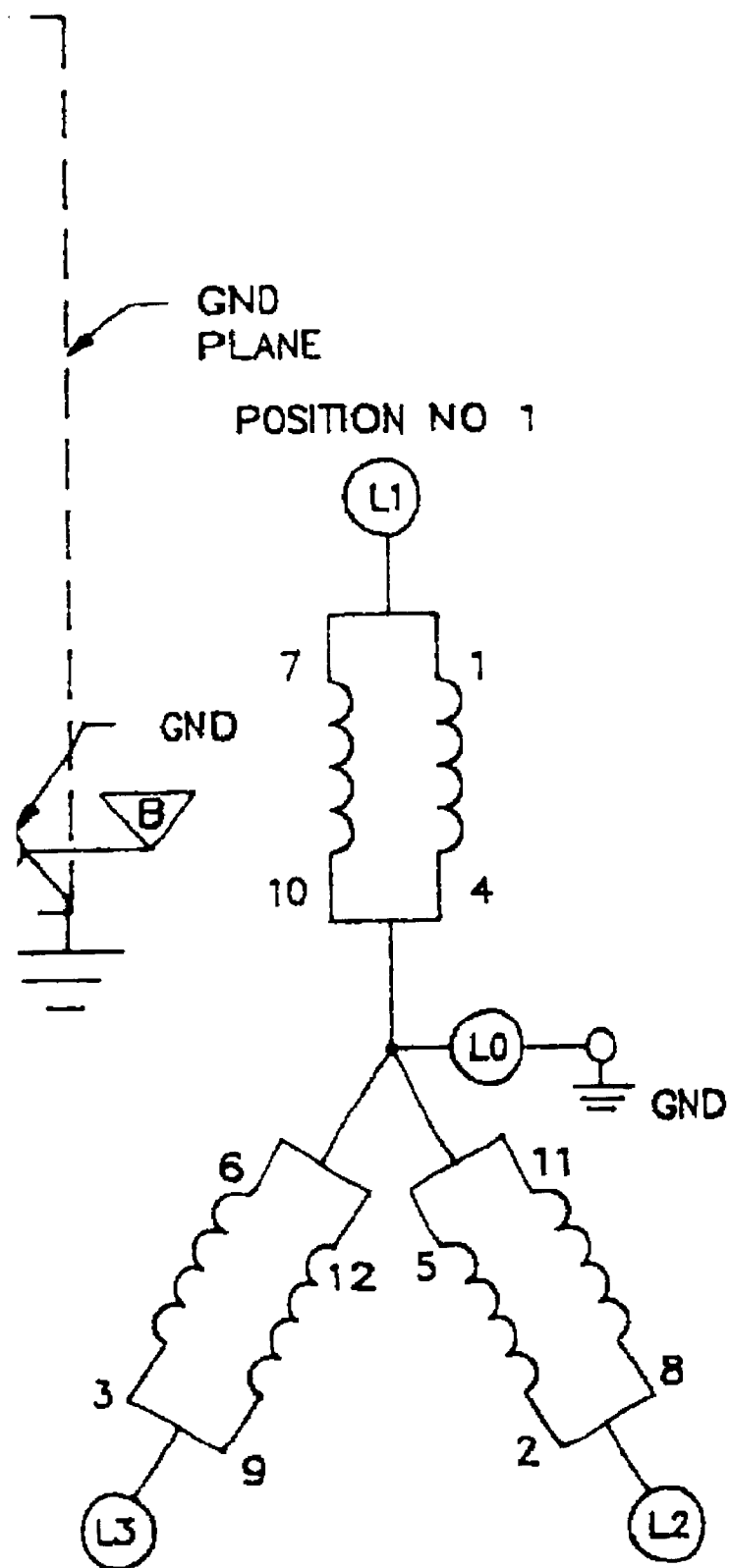
S1 CIRCUIT SCHEDULE	
POSITION	CIRCUITS MADE (2-8-4-6 ARE COMMON)
1 PREHEAT	COMMON TO 1
2 OFF	NONE
3 PRIME & RUN AUX FUEL	COMMON TO 3 & 5
4 PRIME & RUN	COMMON TO 3
5 START	COMMON TO 3 & 7



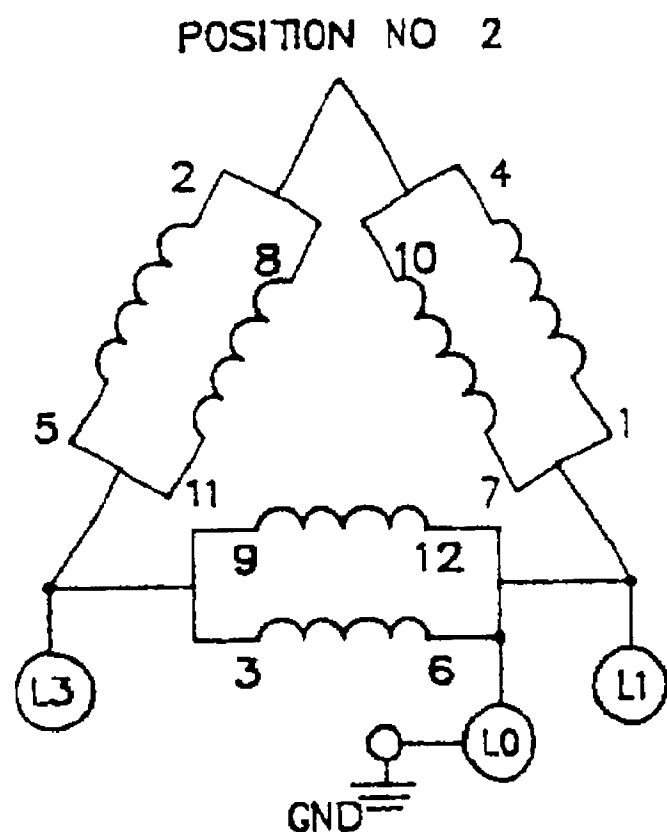
POSITION	S8 SWITCH SCHEDULE			
1 120/208 V 3 PHASE 4-WIRE	1 - 2 3 - 4 5 - 6 11 - 12	15 - 16 21 - 22 27 - 28	31 - 32 35 - 36 37 - 38	41 - 42 45 - 46
2 120 V 1 PHASE 2-WIRE	3 - 4 7 - 8 9 - 10 11 - 12 13 - 14	17 - 18 21 - 22 23 - 24 25 - 26 27 - 28	29 - 30 33 - 34 37 - 38	43 - 44 47 - 48
3 120/240 V 1 PHASE 3-WIRE	7 - 8 9 - 10 13 - 14 23 - 24	25 - 26 31 - 32 33 - 34 39 - 40		43 - 44 47 - 48



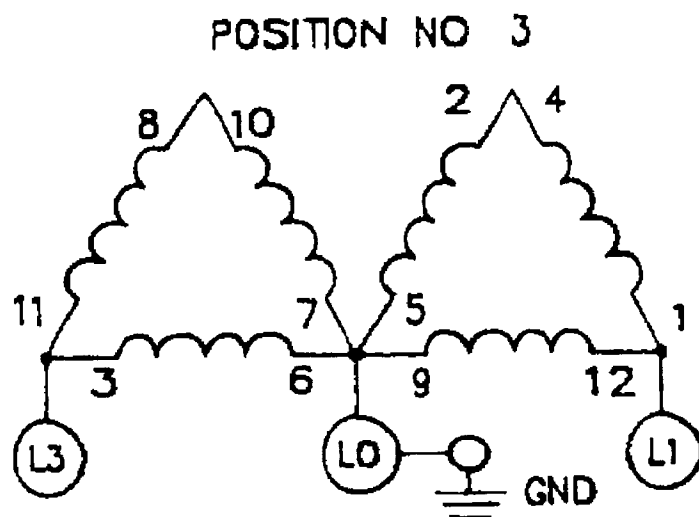
ONLY THE EXTERNAL CONNECTIONS TO S8 ARE SHOWN WHEN THE OUTPUT CIRCUIT INTERRUPTER (K1) IS CLOSED THE THREE POSITIONS OF SWITCH S8 CONNECT THE GENERATOR PHASE WINDINGS TO THE OUTPUT LOAD TERMINALS (TB2) AS SHOWN BELOW THE CONNECTION SHOWN BELOW BETWEEN THE L0 TERMINAL AND THE GROUND (GND) TERMINAL IS A REMOVABLE LINK



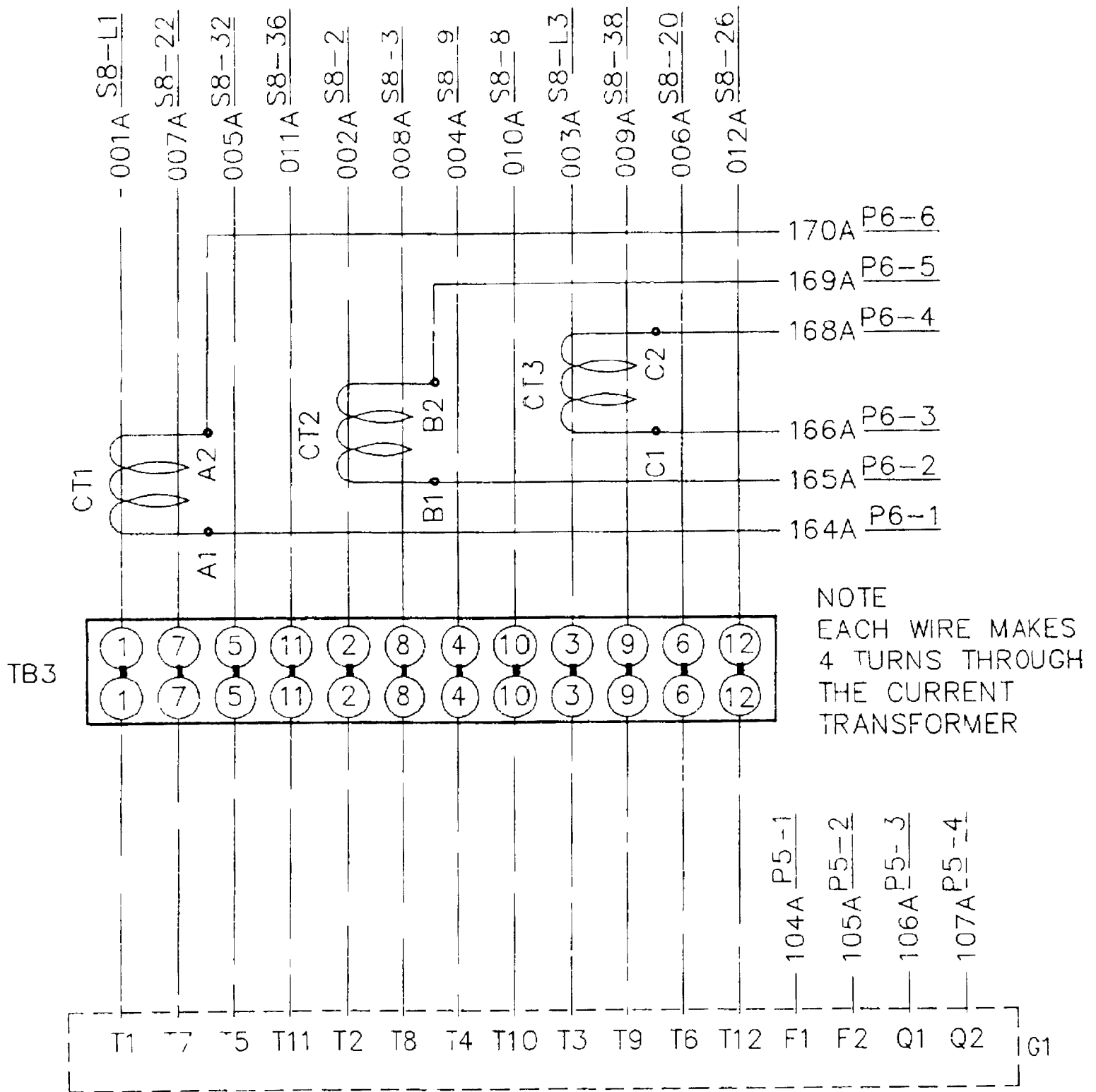
120/208 VOLT 3PHASE 4 WIRE

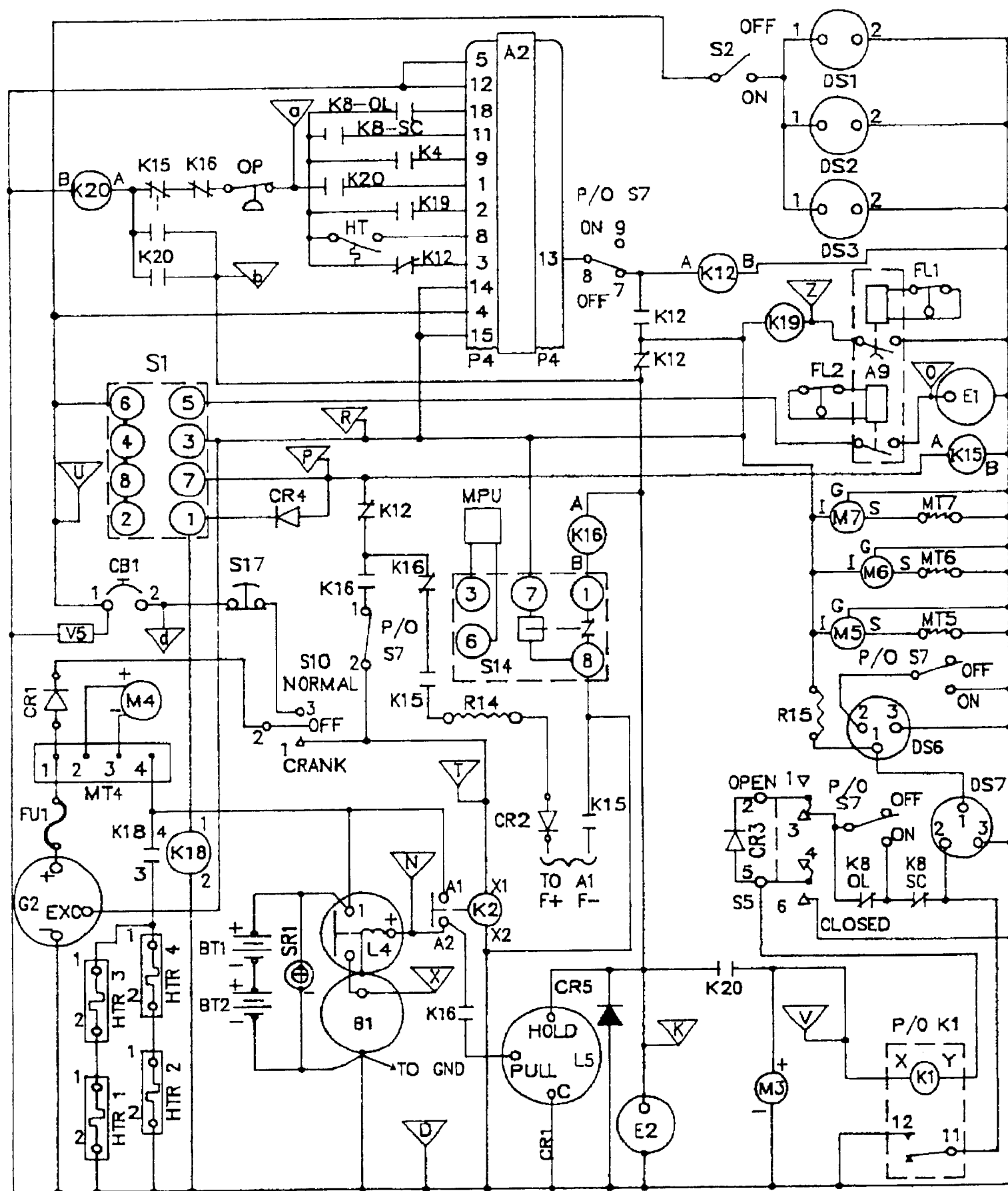


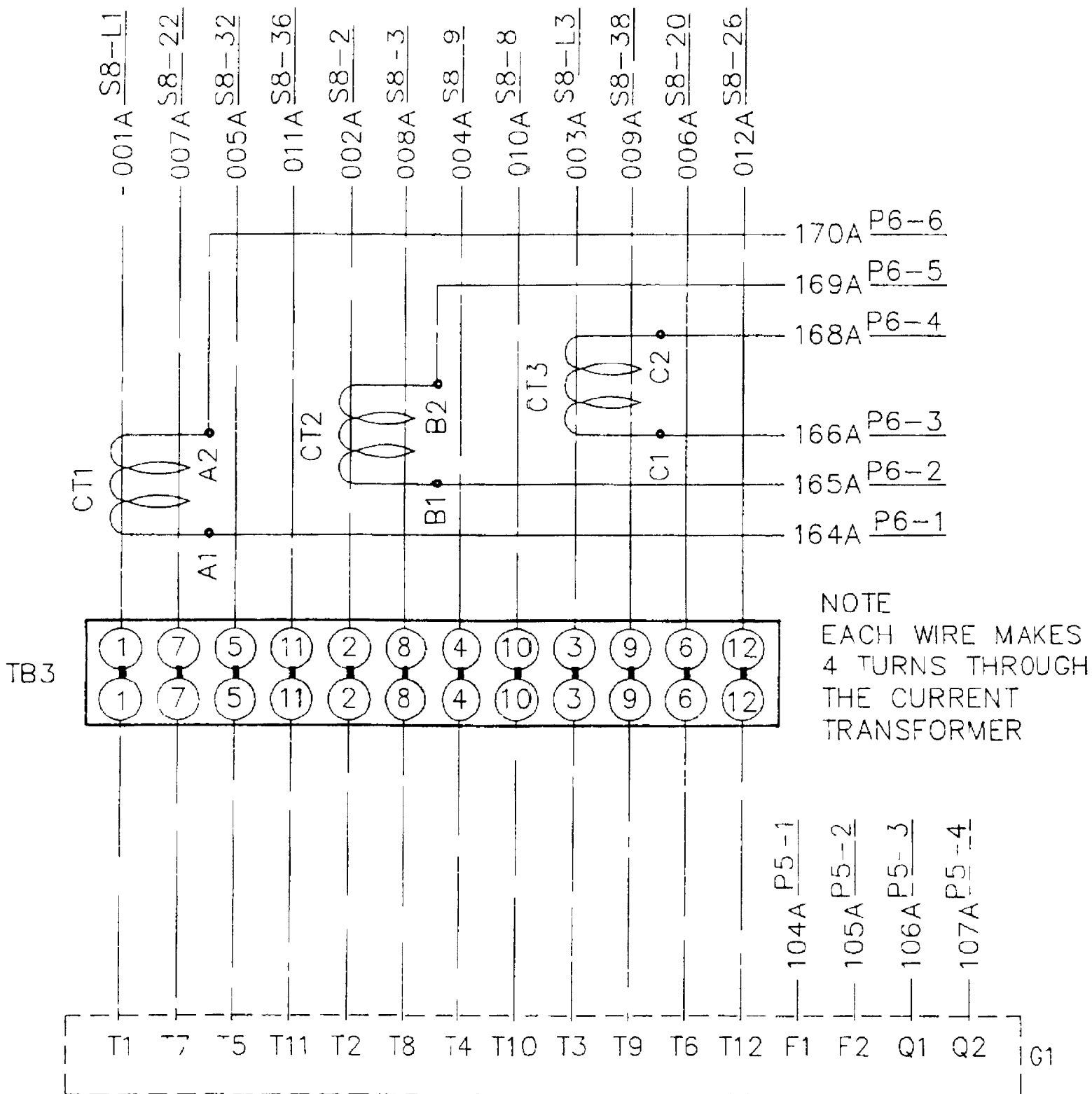
120 VOLT 1 PHASE 2 WIRE

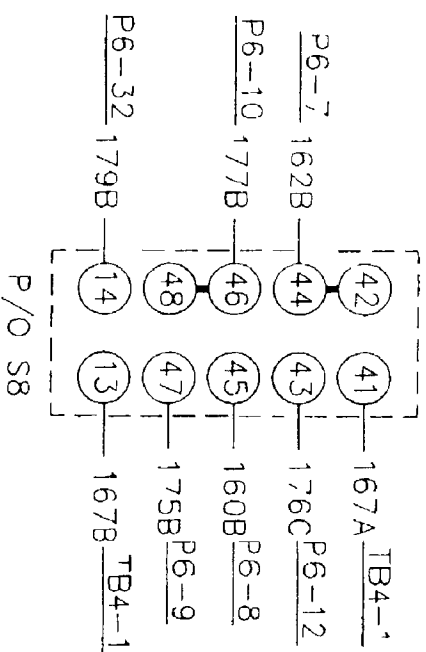
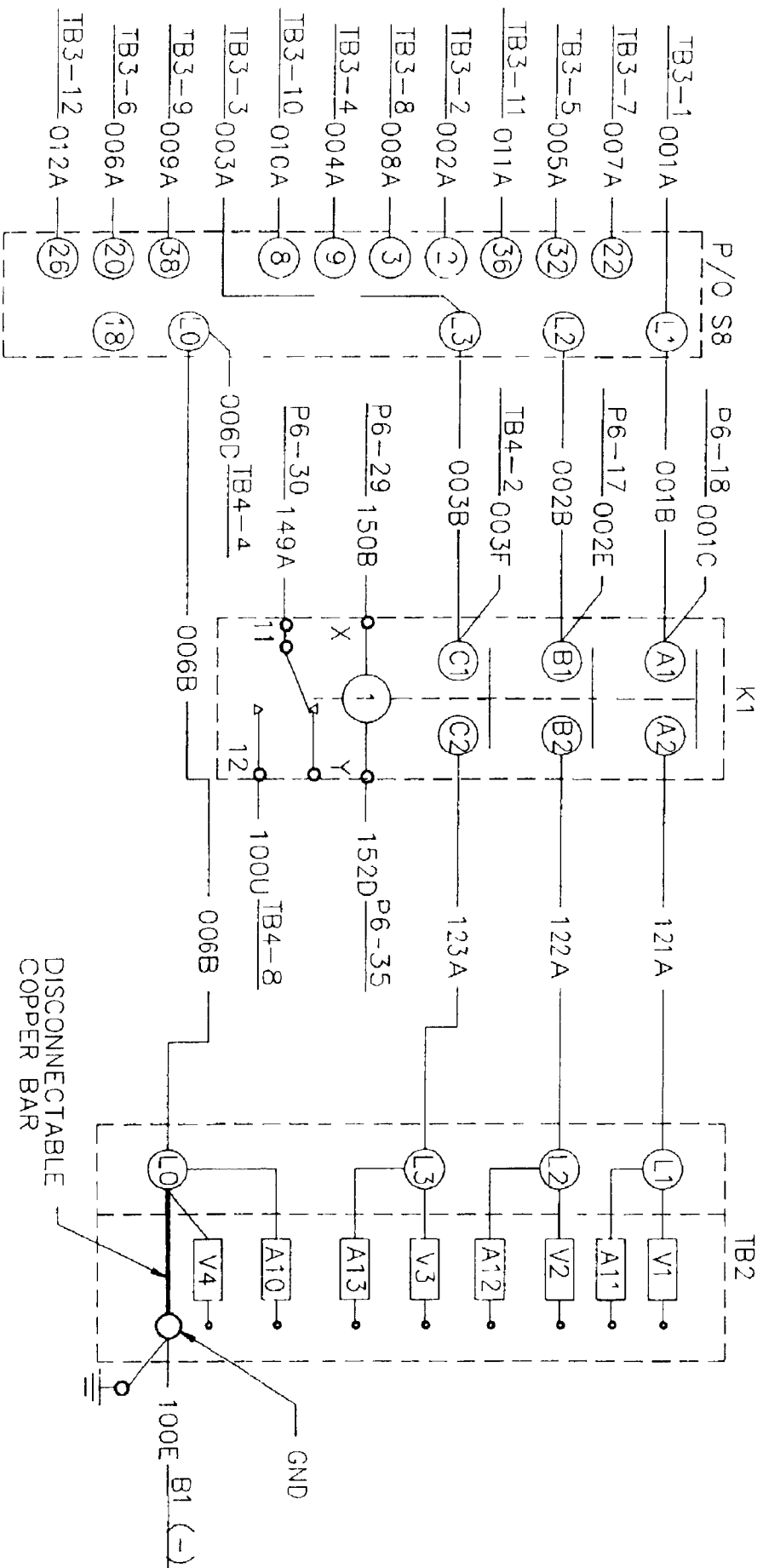


120/240 VOLT 1PHASE 3 WIRE









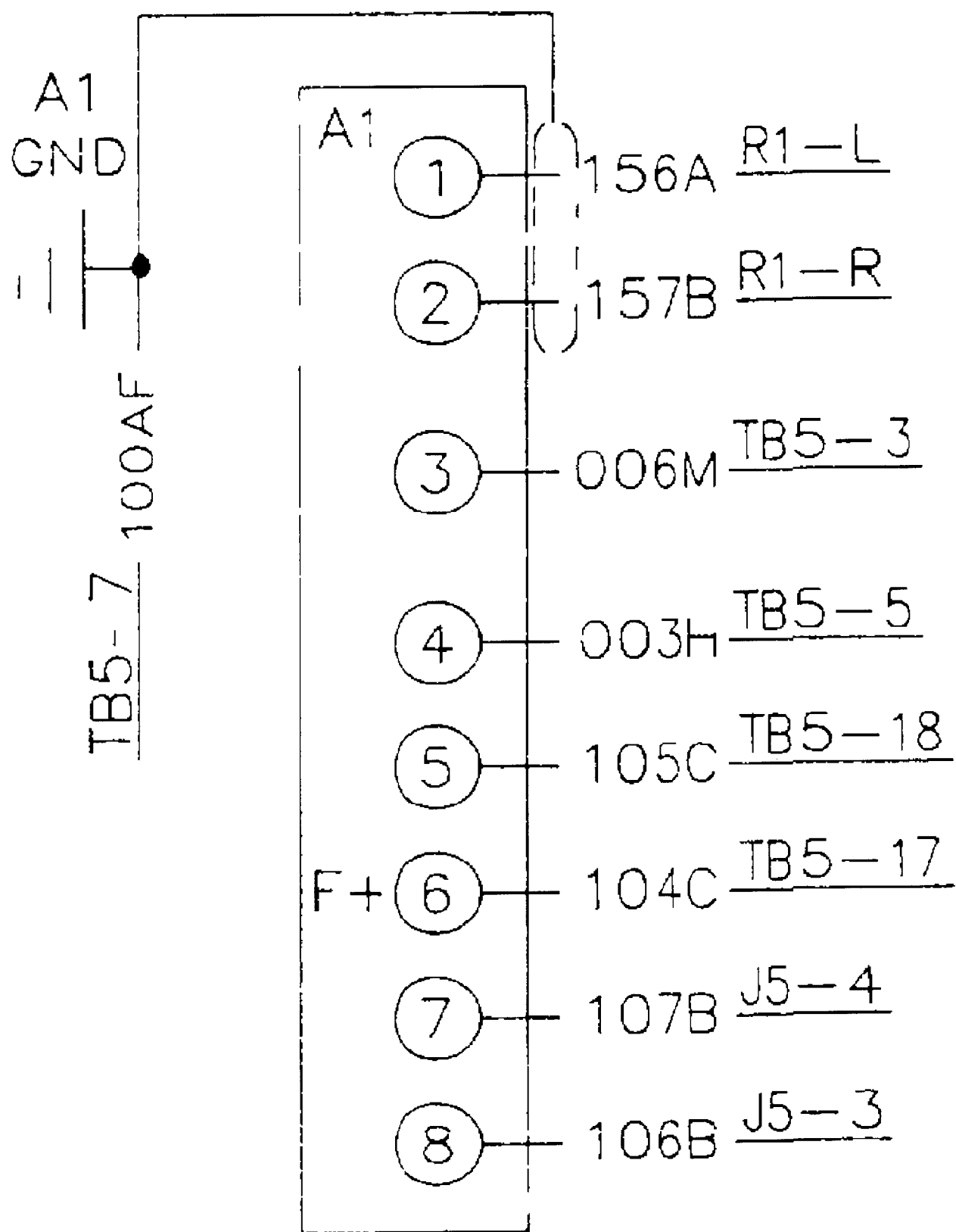
A1	AC VOLTAGE REGULATOR	L0	OUTPUT TERMINAL
A2	MALFUNCTION INDICATOR	L1	OUTPUT TERMINAL
A7	FREQUENCY TRANSDUCER	L2	OUTPUT TERMINAL
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K18	PRE HEAT RELAY	TB	TERMINAL BOARD(S)
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K20	OIL PRESSURE RELAY	V5	VARISTOR DC SYSTEM

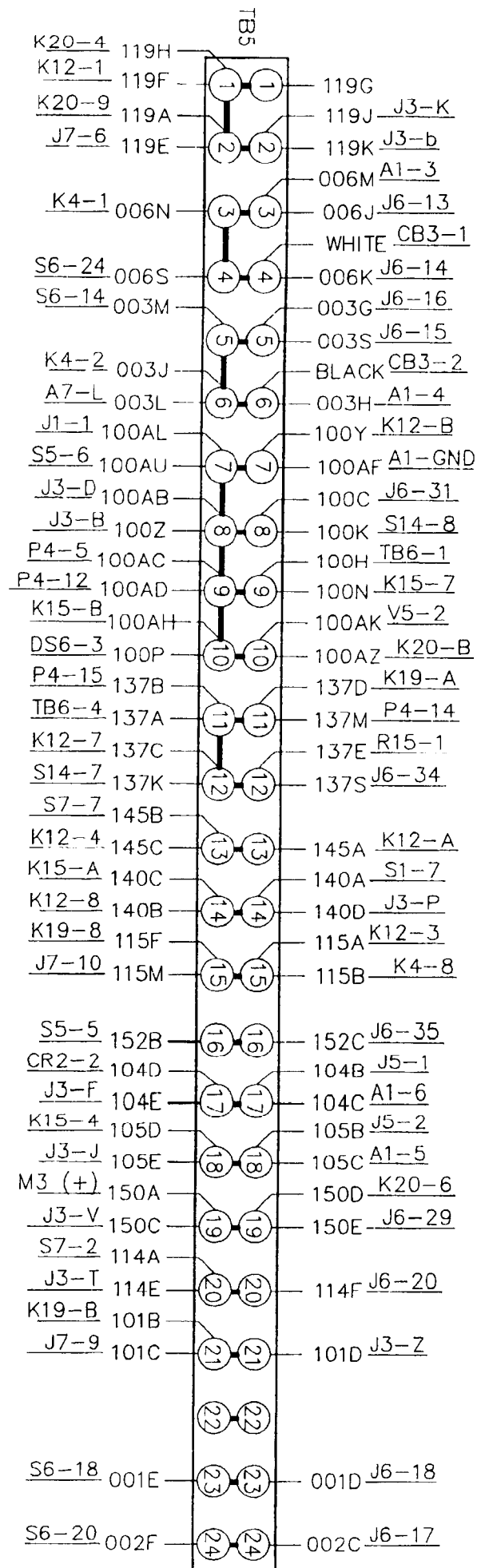
NOTE SIZE DESIGNATOR OMITTED FROM WIRE NUMBERS FOR CLARITY

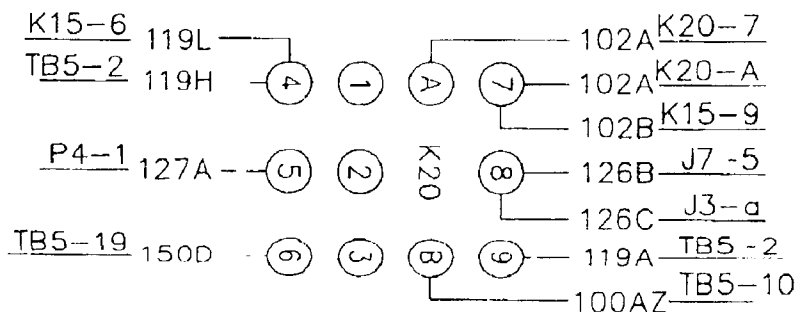
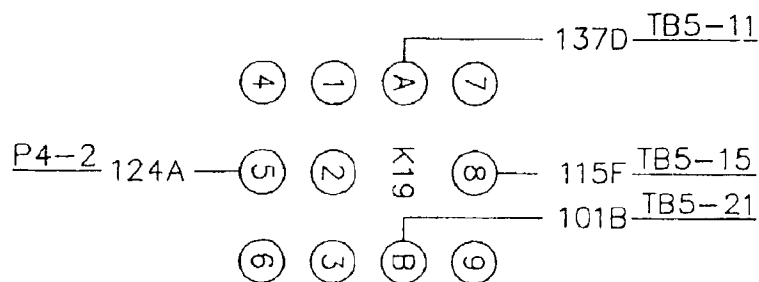
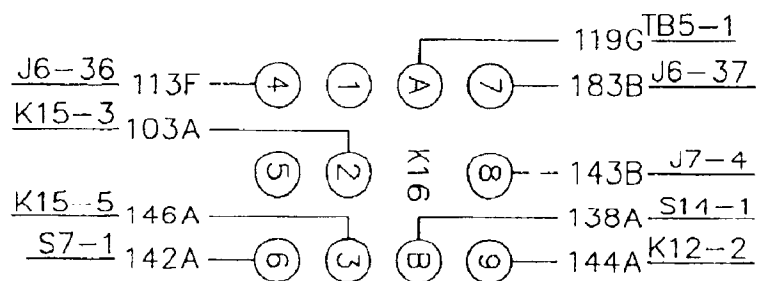
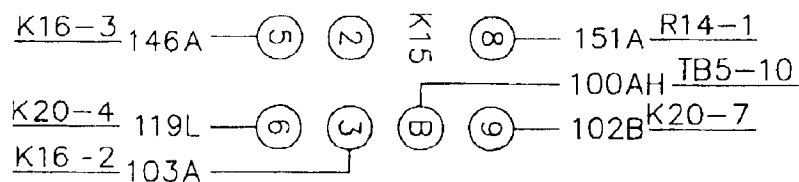
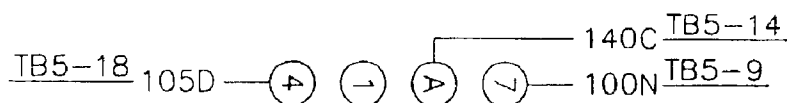
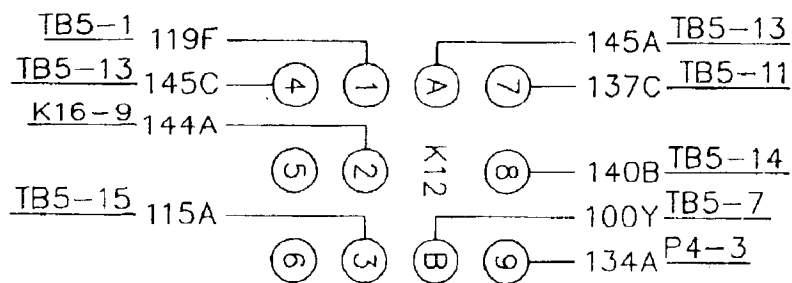
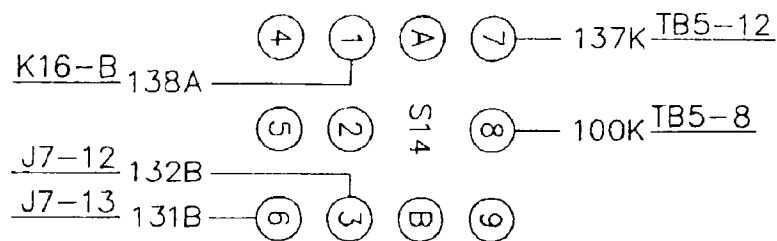
P6	J6
<u>CT1-A1</u> 164A	1 164B <u>K8-1</u>
<u>CT2-B1</u> 165A	2 165B <u>K8-2</u>
<u>CT3-C1</u> 166A	3 166B <u>K8-3</u>
<u>CT3-C2</u> 168A	4 168B <u>S6-9</u>
<u>CT2-B2</u> 169A	5 169B <u>S6-5</u>
<u>CT1-A2</u> 170A	6 170B <u>S6-1</u>
<u>S8-44</u> 162B	7 162A <u>M8-1</u>
<u>S8-45</u> 160B	8 160A <u>S6-29</u>
<u>S8-47</u> 175B	9 175A <u>S6-31</u>
<u>S8-46</u> 177B	10 177A <u>S6-13</u>
<u>TB4-1</u> 167C	11 167D <u>K8-4</u>
<u>S8-43</u> 176C	12 176A <u>S6-4</u>
<u>TB4-5</u> 006H	13 006J <u>TB5-3</u>
<u>TB4-4</u> 006G	14 006K <u>TB5-4</u>
<u>TB1-2</u> 003C	15 003S <u>TB5-5</u>
<u>TB4-3</u> 003D	16 003G <u>TB5-5</u>
<u>K1-B1</u> 002E	17 002C <u>TB5-24</u>
<u>K1-A1</u> 001C	18 001D <u>TB5-23</u>
<u>TB4-6</u> 113C	19 113D <u>J3-N</u>
<u>K2-X1</u> 114B	20 114F <u>TB5-20</u>
<u>K2-A1</u> 109F	21 109J <u>MT4-4</u>
<u>K2-A1</u> 109L	22 109K <u>MT4-4</u>
<u>K18-1</u> 139B	23 139C <u>S1-1</u>
	24
	25
<u>G2 (+)</u> 180C	26 180A <u>FU1-2</u>
<u>G2 (+)</u> 180D	27 180B <u>FU1-2</u>
<u>K1-X</u> 150B	28 150L <u>TB5-19</u>
<u>K1-11</u> 149A	29 149B <u>K8-12</u>
<u>TB4-9</u> 100T	30 100C <u>TB5-8</u>
<u>S8-14</u> 179B	31 179A <u>R13-2</u>
<u>S10-2</u> 120A	32 120B <u>CR1-1</u>
<u>G2-EXC</u> 137T	33 137S <u>TB5-12</u>
<u>K1-Y</u> 152D	34 152C <u>TB5-16</u>
<u>TB4-6</u> 113E	35 113F <u>K16-4</u>
<u>J14-2</u> 183A	36 183B <u>K16-7</u>
	37

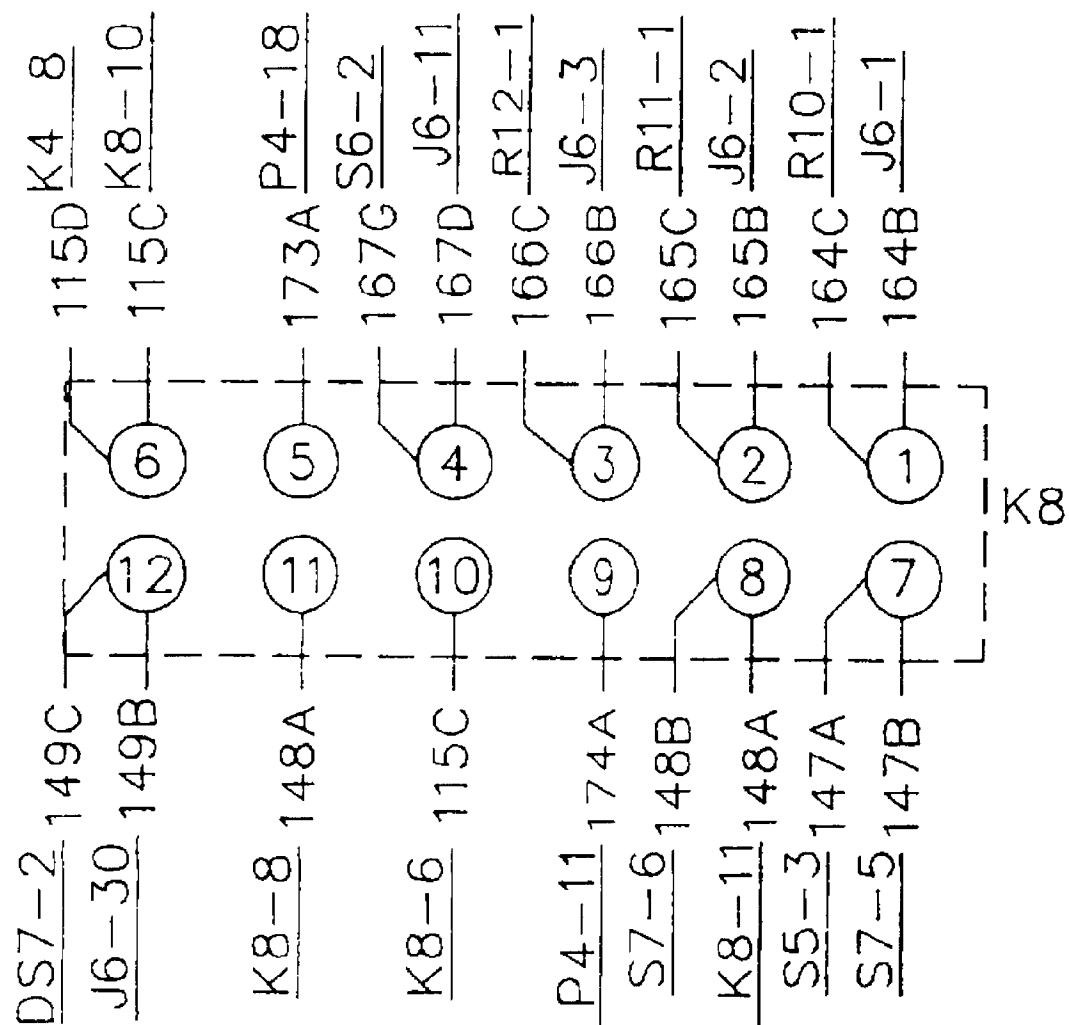
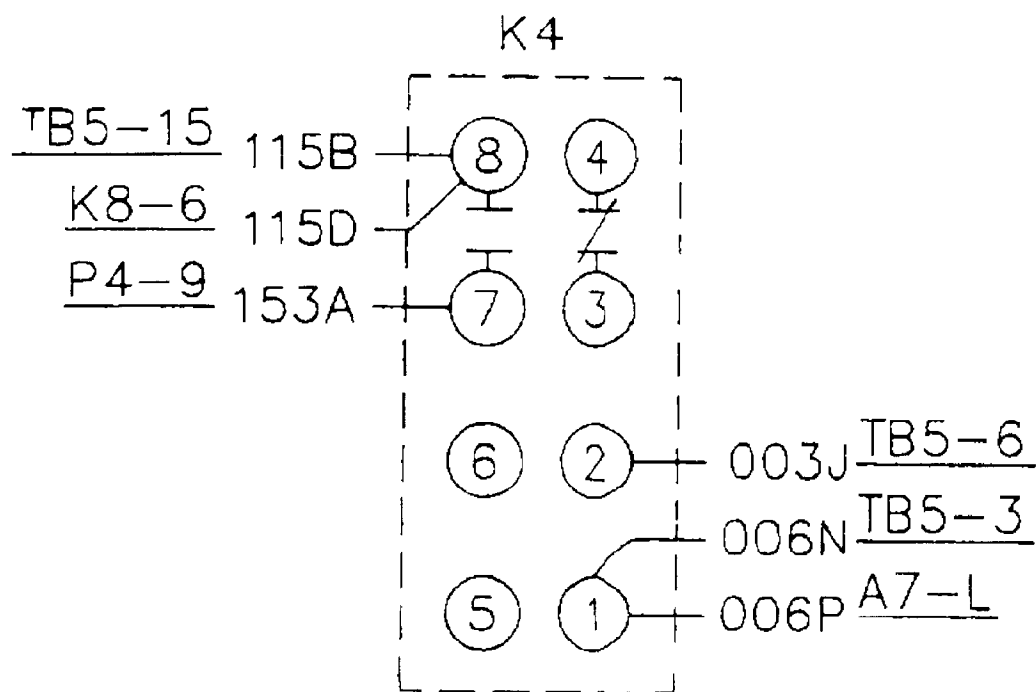
		P7	J7	
<u>MT5</u>	128A	1	1	128B <u>M5-S</u>
<u>MT6</u>	129A	2	2	129B <u>M6-S</u>
<u>MT7</u>	130A	3	3	130B <u>M7-S</u>
<u>OP-C</u>	143C	4	4	143B <u>K16-8</u>
<u>OP-NC</u>	126A	5	5	126B <u>K20-8</u>
<u>TB4-12</u>	119C	6	6	119E <u>TB5-2</u>
<u>TB4-13</u>	117C	7	7	117D <u>J3-Q</u>
<u>J15-2</u>	118A	8	8	118B <u>S1-5</u>
<u>J15-3</u>	101A	9	9	101C <u>TB5-21</u>
<u>TB4-14</u>	115G	10	10	115M <u>TB5-15</u>
<u>HT-NO</u>	141A	11	11	141B <u>P4-8</u>
<u>MPU-1</u>	132A	12	12	132B <u>S14-3</u>
<u>MPU-2</u>	131A	13	13	131B <u>S14-6</u>
<u>S10-3</u>	133A	14	14	133B <u>S17-1</u>
<u>B1 (+)</u>	178A	15	15	178B <u>J3-X</u>
		16	16	

		P5	J5	
<u>G1-F1</u>	104A	1	1	104B <u>TB5-17</u>
<u>G1-F2</u>	105A	2	2	105B <u>TB5-18</u>
<u>G1-Q1</u>	106A	3	3	106B <u>A1-8</u>
<u>G1-Q2</u>	107A	4	4	107B <u>A1-7</u>









J3

A	
B	100Z <u>TB5-8</u>
D	100AB <u>TB5-9</u>
F	104E <u>TB5-17</u>
J	105E <u>TB5-18</u>
K	119J <u>TB5-2</u>
N	113D <u>J6-19</u>
O	117D <u>J7-7</u>
P	140D <u>TB5-14</u>
R	137U <u>TB6-4</u>
T	114E <u>TB5-20</u>
U	136A <u>S1-8</u>
V	150C <u>TB5-19</u>
W	
X	178B <u>J7-15</u>
Z	101D <u>TB5-21</u>
a	126C <u>K20-8</u>
b	119K <u>TB5-1</u>
d	135B <u>CB1-2</u>
m	
r	
s	
t	
AB	
AC	
AF	
AG	

A7

