

S1 CIRCUIT SCHEDULE	
POSITION	CIRCUITS MADE
1 PREHEAT	2-4-6-8-1
2 OFF	2-4-6-8 (JUMPERED)
3 PRIME & RUN AUX. FUEL	2-4-6-8-3-5
4 PRIME & RUN	2-4-6-8-3
5 START	2-4-6-8-3-7

- Battery Ckt
- PreHeat
- Initial RUN Ckt
- START Ckt
- Mag Pick Up Ckt
- AUX FUEL Ckt
- Running Ckt
- Main Contactor Ckt
- Dotted lines

2-3 VAC
MPU 1 2
Causes S-14 to Switch
Controls Engine RPM

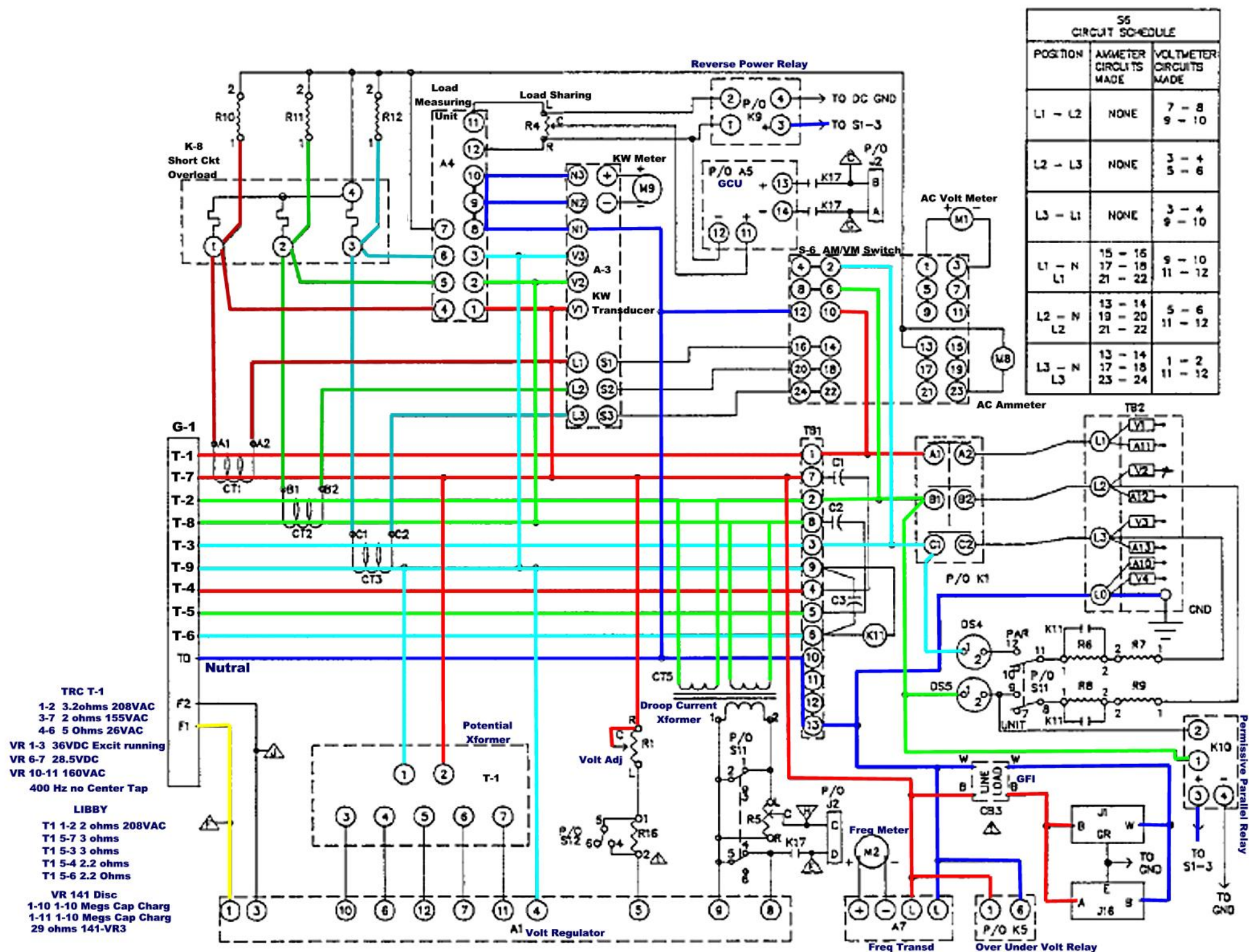
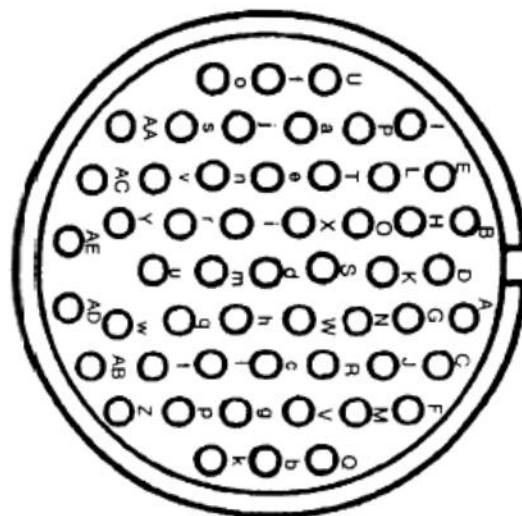


FIGURE 2-17. Diagnostic Connector
Pin Positions



A1	AC VOLTAGE REGULATOR	K19	FUEL LEVEL RELAY
A2	MALFUNCTION INDICATOR	K21	GOVERNOR CONTROL POWER
A3	KILOWATT TRANSOUCEUR	K22	GLOW PLUGS CONTACTOR
A4	LOAD MEASURING UNIT	L0*	OUTPUT TERMINAL
A5	ELECTRONIC GOVERNOR CONTROL	L1	OUTPUT TERMINAL
A6	ELECTRONIC GOVERNOR ACTUATOR	L2	OUTPUT TERMINAL
A7	FREQUENCY TRANSDUCER	L3	OUTPUT TERMINAL
A8	RESISTOR ASSEMBLY	L4*	STARTER SOLENOID
A9	FLOAT SWITCH MODULE	M1	AC VOLTMETER
A10-A13	EMI FILTER	M2	FREQUENCY METER
B1	CRANKING MOTOR	M3	TIME METER
BT1	BATTERY 12V	M4	BATTERY CHARGING AMMETER
BT2	BATTERY 12V	M5	FUEL LEVEL INDICATOR
C1-C3	EMI CAPACITOR	M6	COOLANT TEMPERATURE INDICATOR
CB1	DC CONTROL POWER CIRCUIT BREAKER	M7	OIL PRESSURE INDICATOR
CB3	GROUND FAULT CIRCUIT INTERRUPTER	M8	AC AMMETER
CBGND	CONTROL BOX GROUND	M9	KILOWATT METER
CPGND	CONTROL PANEL GROUND	MPU	MAGNETIC PICKUP
CR1	DIODE REVERSE BATTERY	MT4	BATTERY CHARGING AMMETER SHUNT
CR2	DIODE FIELD FLASH	MT5	FUEL LEVEL SENDER
CR3-9	DIODE BLOCKING	MT6	COOLANT TEMPERATURE SENDER
CT1	CURRENT TRANSFORMER	MT7	OIL PRESSURE SENDER
CT2	CURRENT TRANSFORMER	OP	LOW OIL PRESSURE SWITCH
CT3	CURRENT TRANSFORMER	P4*	PLUG MALFUNCTION INDICATOR
CT5	DROOP CURRENT TRANSFORMER	R1	VOLTAGE ADJUST POTENTIOMETER
DS1	PANEL LIGHT	R2	FREQUENCY ADJUST POTENTIOMETER
DS2	PANEL LIGHT	R4	LOAD SHARING RHEOSTAT
DS3	PANEL LIGHT	R5	KVA SHARING RHEOSTAT
DS4	SYNCHRONIZATION LIGHT	R6	SYNC LIGHTS DROPPING RESISTOR
DS5	SYNCHRONIZATION LIGHT	R7	SYNC LIGHTS DROPPING RESISTOR
DS6	BATTLE SHORT LIGHT	R8	SYNC LIGHTS DROPPING RESISTOR
DS7	AC CIRCUIT INTERRUPTER LIGHT	R9	SYNC LIGHTS DROPPING RESISTOR
E1	AUXILIARY 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	R14	FIELD FLASH RESISTOR
G1	AC GENERATOR	R15	LED RESISTOR
G2	BATTERY CHARGING ALTERNATOR	△R16	VOLTAGE ADJUST RESISTOR
GND	GROUND	S1	MASTER SWITCH
HT	COOLANT HIGH TEMPERATURE SWITCH	S2	PANEL LIGHT SWITCH
J1	CONVENIENCE RECEPTACLE	S5	AC CIRCUIT INTERRUPTER SWITCH
J2	PARALLEL RECEPTACLE	S6	AM / VM TRANSFER SWITCH
J3	DIAGNOSTIC RECEPTACLE	S7	BATTLE SHORT SWITCH
J16	SWITCH BOX RECEPTACLE	S10*	DEAD CRANK SWITCH
K1	AC CIRCUIT INTERRUPTER	S11	UNIT-PARALLEL SWITCH
K2	CRANKING RELAY	△S12	FREQUENCY SELECTOR SWITCH
K5	OVER / UNDER VOLTAGE RELAY	S13	OVERSPEED SWITCH
K8	OVERLOAD / SHORT CIRCUIT RELAY	S14*	CRANK DISCONNECT SWITCH
K9	REVERSE POWER RELAY	S16	OVERSPEED RESET SWITCH
K10	PERMISSIVE PARALLELING RELAY	S17	EMERGENCY STOP SWITCH
K11	VOLTAGE SENSING RELAY	SR1	SLAVE RECEPTACLE
K12	ENGINE FAULT RELAY	T1	POTENTIAL TRANSFORMER
K13	ELECTRICAL FAULT RELAY	TB	TERMINAL BOARD (S)
K14	OVERSPEED RELAY	TB1	VOLTAGE RECONNECTION TERMINAL BOARD
K15	START RELAY	TB2	LOAD OUTPUT TERMINAL BOARD
K16	CRANK DISCONNECT RELAY	V1-V4*	VARISTOR AC LOAD LINES
K17	K1 AUXILIARY RELAY		



INDICATES PIN ON DIAGNOSTIC RECEPTACLE (J3)

* LETTER DESIGNATION



NOTE S12 AND R16 ARE NOT INCLUDED ON 400 HZ SETS

Reconnect Board

Connections

- 120/208VAC
- 220/416VAC

