

CONTROL PANEL LEGEND

AVR - AUTOMATIC VOLTAGE REGULATOR
 BCH - BATTERY CHARGER
 BR1 - DIODE (FIELD BOOST)
 CB2 - CIRCUIT BREAKER (EXCITATION)
 EC - EMISSIONS CONNECTOR
 F1 - FUSE BAT POWER (15A ATO TYPE)
 HM - HOUR METER
 J2 - CONNECTOR 2 (ON PCB)
 J3 - CONNECTOR 3 (ON PCB)
 R4 - FIELD BOOST RESISTOR 15 OHM
 RL1 - RELAY 1 (START RELAY)
 RL2 - RELAY 2 (ENGINE RUN)
 SW1 - AUTO/OFF/MANUAL SWITCH
 SW2 - SET EXERCISER SWITCH
 TB - TERMINAL BLOCK
 TR1 - TRANSFORMER 1

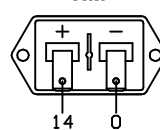
CUSTOMER CONNECTION & ALTERNATOR LEGEND

BA - BRUSH ASSEMBLY (GENERATOR)
 CB1 - MAINLINE CIRCUIT BREAKER
 NB - NEUTRAL BLOCK
 TB-BC - BATTERY CHARGER TERMINAL BLOCK
 TBG - GTS CONNECT TERMINAL BLOCK
 TBR - RTS CONNECT TERMINAL BLOCK

NOTE: ALL WIRES ARE
 18 AWG UL LISTED UNLESS
 OTHERWISE NOTED AS SHOWN:

SIZE
 (AWG)

HM



F1



13 14 15

PCB J3

NOT USED 1
 NOT USED 2
 BLACK-W1 3 W1
 RED-W2 4 W2
 WHITE-W3 5 W3
 GREEN-W4 6 W4

PCB J2

AFS OUT 1 808
 START RELAY 2 56A
 FUEL(RUN) RELAY 3 14A
 2 WIRE START(1) 4 183
 MOMENT. OPEN 5 15E
 2 WIRE START(2) 6 178
 MAN/AUTO INPUT 7 15A
 16VAC SENSE(1) 8 224
 ALARM RELAY 9
 XFER RELAY 10 23
 MAN. INPUT 11 239
 16VAC SENSE(2) 12 225
 EMISSIONS ENABLE 13 0
 GND-B 14 0

RL2

ENGINE RUN

RL1

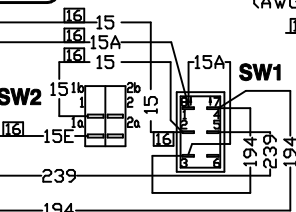
ENGINE START

TBR

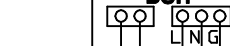
UTILITY FROM T/SW 1 N1
 UTILITY FROM T/SW 2 N2
 TRANSFER RELAY 3 194
 TRANSFER RELAY COIL 4 23
 REMOTE START 5 183
 REMOTE START 6 178

TBG

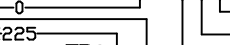
CUSTOMER CONNECTIONS



BCH



TR1



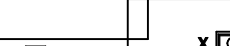
EC



AVR



BR1



CB2



TA1



TA2



TA3



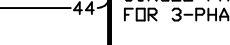
TA4



TA5



TA6



TA7



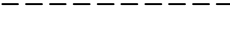
TA8



TA9



TA10



TA11



TA12

SINGLE-PHASE STATOR SHOWN.
 FOR 3-PHASE SEE DWG. OF 6839.

CENTER TERMINAL
 NOT USED

