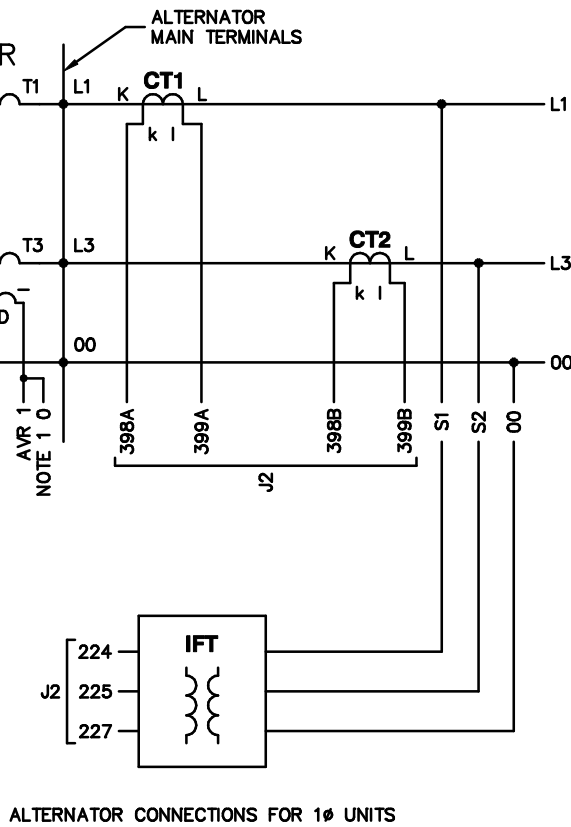
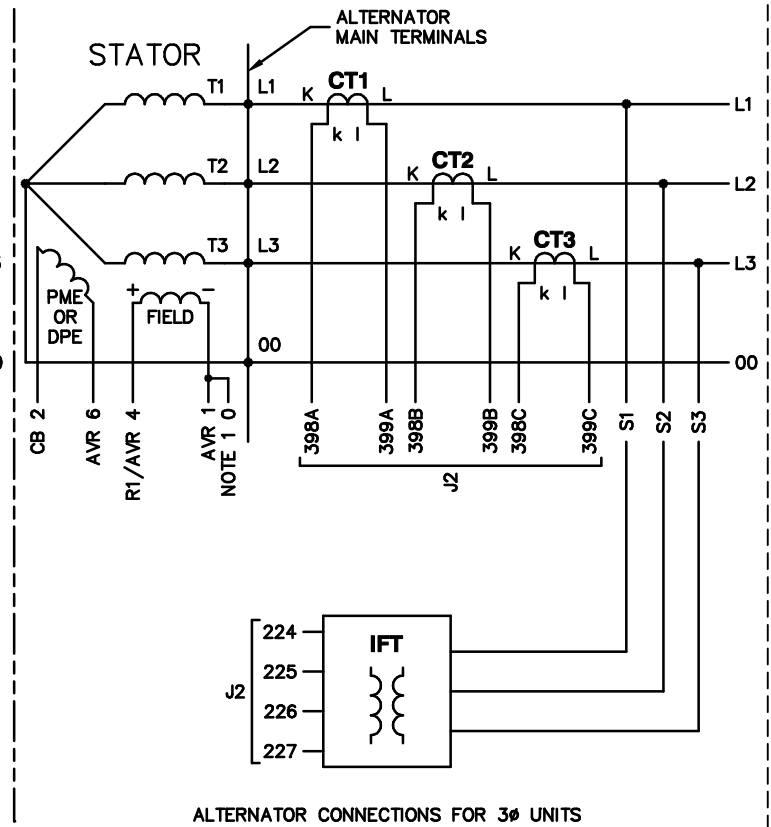
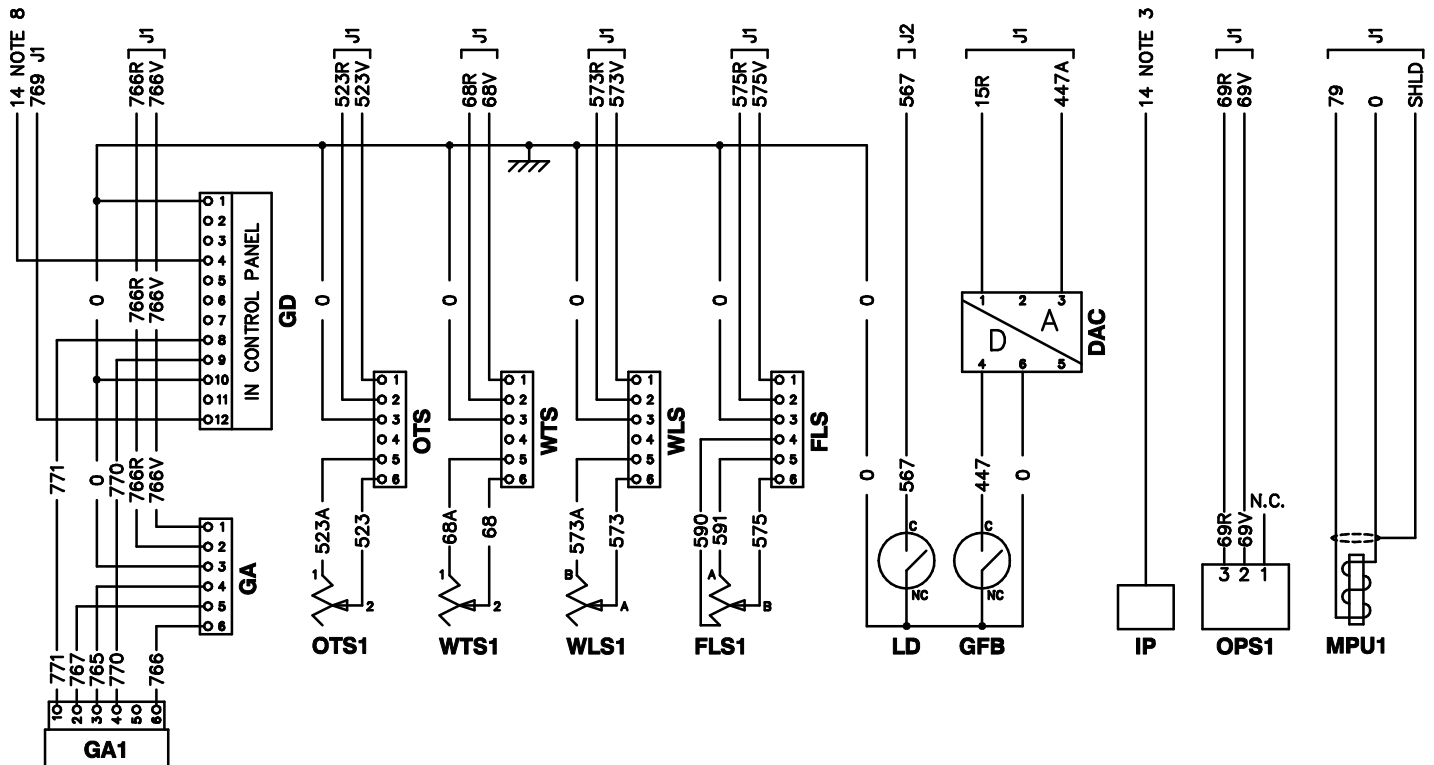


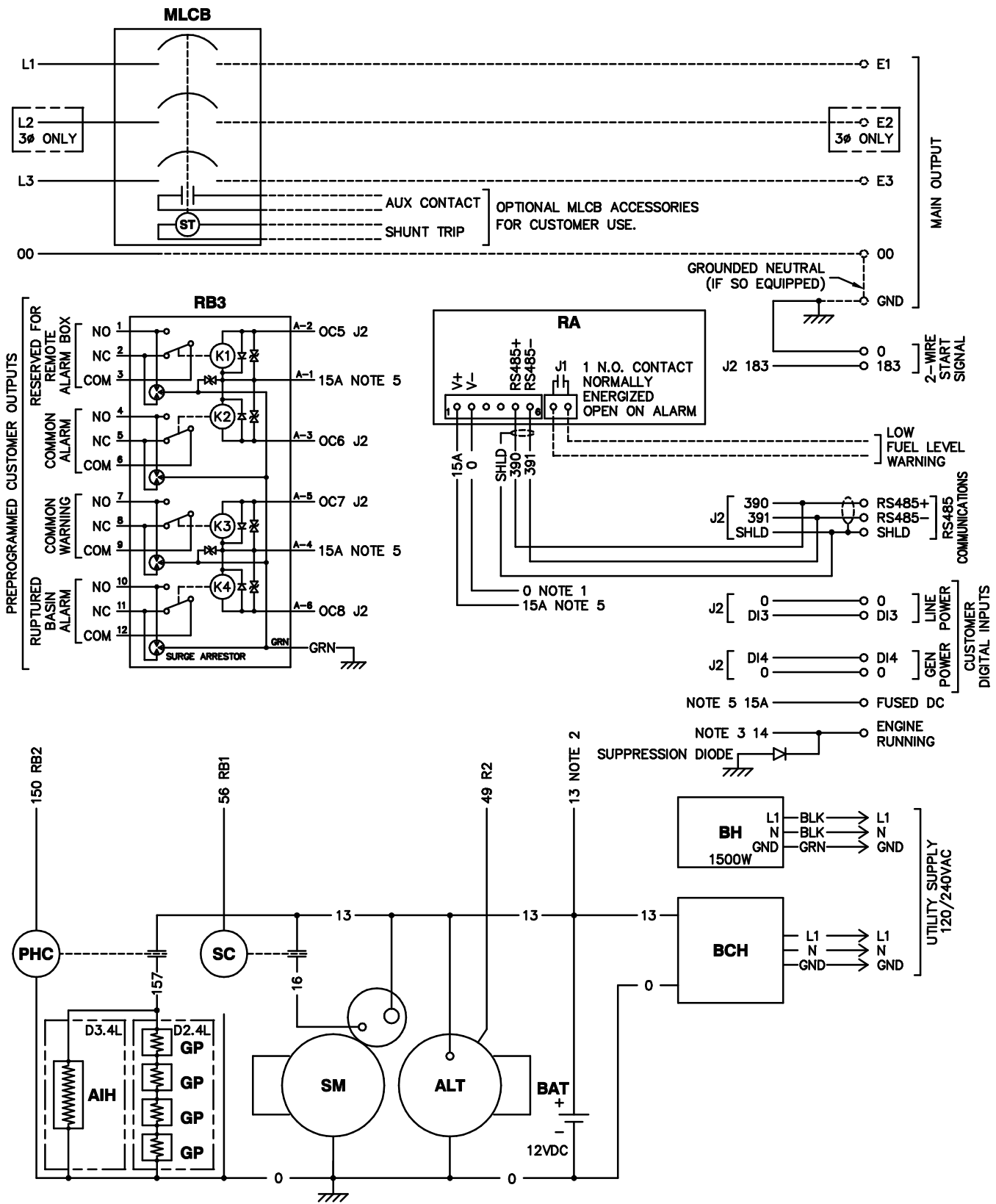


ALTERNATOR CONNECTIONS FOR 1Ø UNITS

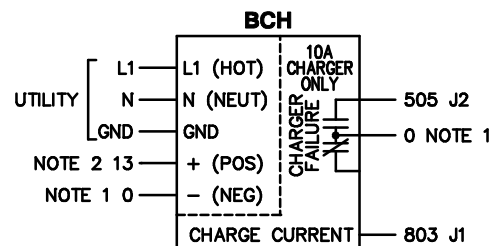
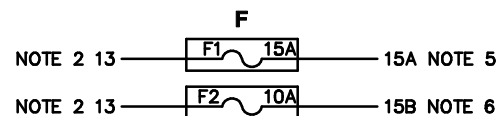
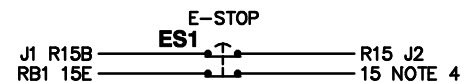
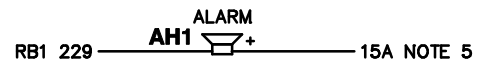
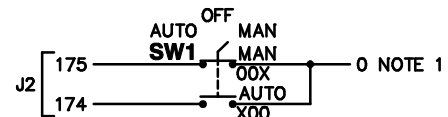
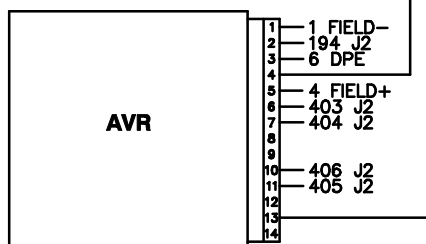
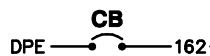
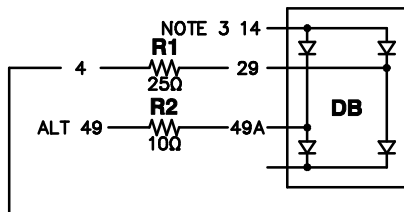
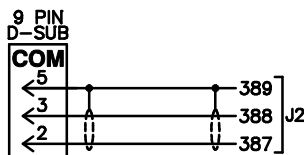
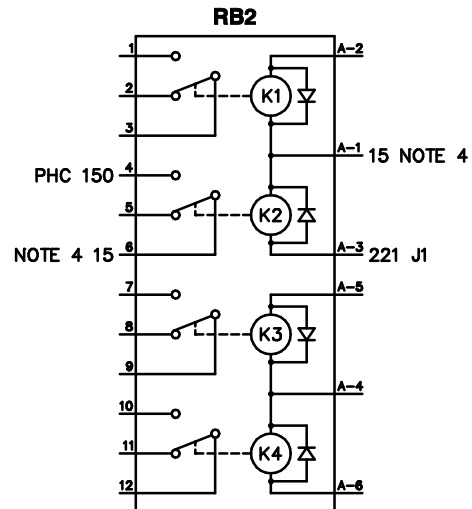
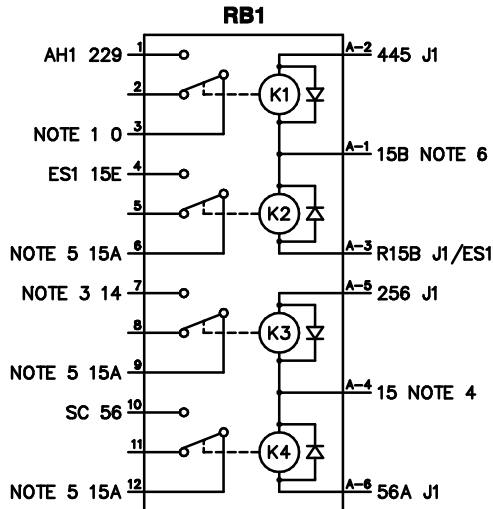


ALTERNATOR CONNECTIONS FOR 3Ø UNITS





NOTE:
FOR FIELD WIRING TO CUSTOMER CONNECTIONS
(TERMINAL STRIPS AND RELAY BOARDS)
MAXIMUM WIRE SIZE: #14 AWG
RECOMMENDED TIGHTENING TORQUE: 12 LB-IN



LEGEND

00 - NEUTRAL	CT - CURRENT TRANSFORMER	GFCI - GROUND FAULT CIRCUIT INTERRUPT	PHC - PREHEAT CONTACTOR
AH1 - ALARM HORN	DAC - DIGITAL TO ANALOG CONVERTER	GP - GLOW PLUG	PME - PERMANENT MAGNET EXCITER
AIH - AIR INTAKE HEATER	DB - DIODE BRIDGE	IFT - INTERFACE TRANSFORMER	R - RESISTOR
ALT - DC CHARGE ALTERNATOR	DPE - EXCITER	IP - INJECTION PUMP	RA - REMOTE ANNUNCIATOR
AVR - AUTO VOLTAGE REGULATOR	ES1 - EMERGENCY STOP SWITCH	J - ENGINE CONTROL MODULE CONN.	RB - RELAY BOARD
BAT - BATTERY	F - FUSE	LD - LEAK DETECTOR	SC - STARTER CONTACTOR
BCH - BATTERY CHARGER	FLS - FUEL LEVEL SENDER	MLCB - MAIN LINE CIRCUIT BREAKER	SM - STARTER MOTOR
BH - BLOCK HEATER	GA - GOVERNOR ACTUATOR	MPU1 - MAGNETIC PICKUP	SW1 - OFF/AUTO/MANUAL SWITCH
CB - CIRCUIT BREAKER	GD - GOVERNOR DRIVER	OPS1 - OIL PRESSURE SENDER	WLS - COOLANT LEVEL SENSOR
COM - COMMUNICATION CONNECTOR	GFB - GENERATOR FLUID BASIN	OTS - OIL TEMPERATURE SENDER	WTS - COOLANT TEMPERATURE SENDER

AVR CONNECTOR

PIN	WIRE	TO	FUNCTION
1	1	FIELD	- FIELD
2	194	J2-31	+12VDC
3	6	DPE	DPE OUTPUT
4	4	R1/FIELD	+ FIELD
5	4	R1/FIELD	+ FIELD
6	403	J2-8	GATE TRIGGER B
7	404	J2-20	GATE TRIGGER A
10	406	J2-30	ZERO CROSSING I/P
11	405	J2-19	GROUND (ISO)
13	162	CB	DPE OUTPUT (AFTER CB)

GD CONNECTOR

PIN	WIRE	TO	FUNCTION
1	0	GND	NOTE 1
4	14	RB1-7	NOTE 3
8	771	GA1-1	THROTTLE DRIVE LO
9	770	GA1-4	THROTTLE DRIVE HI
10	0	GND	NOTE 1
12	769	J1-33	THROTTLE PWM

ENGINE CONTROL MODULE CONNECTIONS**J1**

PIN	WIRE	TO	FUNCTION
3	810	MOD-2	MODEM SIGNAL RETURN
4	0	GND	NOTE 1
5	447A	DAC	GENERATOR FLUID BASIN +
6	575R	FLS-2	FUEL LEVEL RTN
7	575V	FLS-1	FUEL LEVEL +
8	523R	OTS-2	OIL TEMPERATURE RTN
9	523V	OTS-1	OIL TEMPERATURE +
10	R15B	RB1A-3/ES1	OVERSPEED/WATCHDOG
11	256	RB1A-5	FUEL RELAY
12	0	GND	NOTE 1
14	811	MOD-3	MODEM DATA CARRIER DETECT
15	68V	WTS-1	COOLANT TEMP +
16	803	BCH	BAT CHARGER CURRENT
17	766R	GA-2	THROTTLE POS RTN
18	766V	GA-1	THROTTLE POS +
19	69R	OPS1-3	OIL PRESS RTN
20	69V	OPS1-2	OIL PRESS +
21	221	RB2A-3	PREHEAT
23	56A	RB1A-6	STARTER RELAY
24	0	MPU1-2	MPU1 SIGNAL (-)
25	79	MPU1-3	MPU1 SIGNAL (+)
26	812	MOD-4	MODEM ENABLE
28	15R	DAC	REGULATED +DC
29	573R	WLS-2	COOLANT LVL RTN
30	573V	WLS-1	COOLANT LVL +
31	68R	WTS-2	COOLANT TEMP RTN
32	809	MOD-1	MODEM 12V POWER
33	769	GD-12	THROTTLE PWM
34	445	RB1A-2	ALARM RELAY
35	15B	F2	NOTE 6

J2

PIN	WIRE	TO	FUNCTION
1	391	CUST CON	RS485- (XFER SW)
2	388	COM-3	RS232 TX (GENLINK)
3	D13	CUST CON	SPARE IN 3/LINE PWR
4	183	CUST CON	REMOTE START
5	174	SW1	"AUTO" START
6	224	IFT	V SENSE GEN A PH
7	227	IFT	V SENSE RTN
8	403	AVR-6	AVR GATE TRIGGER B
9	399C	CT3	GEN C PH CURRENT -
10	398C	CT3	GEN C PH CURRENT +
11	399A	CT1	GEN A PH CURRENT -
12	398A	CT1	GEN A PH CURRENT +
13	390	CUST CON	RS485+ (XFER SW)
14	387	COM-2	RS232 RX (GENLINK)
15	567	LD	LEAK DETECTOR
16	R15	ES1	EMERGENCY STOP
17	226	IFT	V SENSE GEN C PH
19	405	AVR-11	AVR GROUND
20	404	AVR-7	AVR GATE TRIGGER A
21	OC8	RB3A-6	SPARE OUTPUT 4
22	OC6	RB3A-3	SPARE OUTPUT 2
23	OC5	RB3A-2	SPARE OUTPUT 1
24	SHLD	CUST CON	RS485 DRAIN (XFER SW)
25	389	COM-5	RS232 COM (GENLINK)
26	D14	CUST CON	SPARE IN 4/GEN PWR
27	505	BCH	BAT CHARGER FAIL
28	175	SW1	"MANUAL" START
29	225	IFT	V SENSE GEN B PH
30	406	AVR-10	AVR ZERO CROSSING I/P
31	194	AVR-2	AVR +12VDC
33	OC7	RB3A-5	SPARE OUTPUT 3
34	399B	CT2	GEN B PH CURRENT-
35	398B	CT2	GEN B PH CURRENT+

* - CONNECTIONS NOT USED IN 1Ø UNITS.

NOTES:

- 1) WIRE# 0 IS CHASSIS GROUND (BATTERY-) UNLESS NOTED OTHERWISE.
- 2) WIRE# 13 IS UNFUSED +12VDC (BATTERY+).
- 3) WIRE# 14 IS FUSED +12VDC WHEN GENERATOR IS CRANKING OR RUNNING.
- 4) WIRE# 15 IS FUSED +12VDC WHEN E-STOP IS NOT ACTIVATED.
- 5) WIRE# 15A IS FUSED +12VDC FOR GENERAL USE.
- 6) WIRE# 15B IS FUSED +12VDC FOR THE ENGINE CONTROL MODULE.