

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

AVR CONNECTOR

PIN	WIRE	TO	FUNCTION
1	1	FIELD	- FIELD
2	194	J2-31	+12VDC
3	6	PME	PME OUTPUT
4	4	R1	+ FIELD
5	4	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	PME OUTPUT (AFTER CB)

ICM - IGNITION MODULE CONNECTOR

PIN	WIRE	TO	FUNCTION
1	459	CYL9	IGNITION COIL DRIVE 9
2	460	CYL10	IGNITION COIL DRIVE 10
3	457	CYL7	IGNITION COIL DRIVE 7
4	451	CYL1	IGNITION COIL DRIVE 1
5	456	CYL6	IGNITION COIL DRIVE 6
6	452	CYL2	IGNITION COIL DRIVE 2
7	453	CYL3	IGNITION COIL DRIVE 3
8	454	CYL4	IGNITION COIL DRIVE 4
9	455	CYL5	IGNITION COIL DRIVE 5
10	SHLD	CUT	CAMSHAFT SENSOR DRAIN
11	56	RB1-10	STARTER RELAY OUT
12	14	RB1-7	NOTE 3
13	0	GND	NOTE 1
14	79A	CSS-2	CRANKSHAFT SENSOR +
15	458	CYL8	IGNITION COIL DRIVE 8
16	15C	F3	NOTE 7
17	0	GND	NOTE 1
18	15D	CYL1-CYL10	IGNITION COIL PWR
19	806	J1-27	IGNITION ALARM
20	SHLD	CUT	CRANKSHAFT SENSOR DRAIN
21	0A	CSS-1	CRANKSHAFT SENSOR -
22	0	CAM-1	CAMSHAFT SENSOR -
23	450	CAM-2	CAMSHAFT SENSOR +

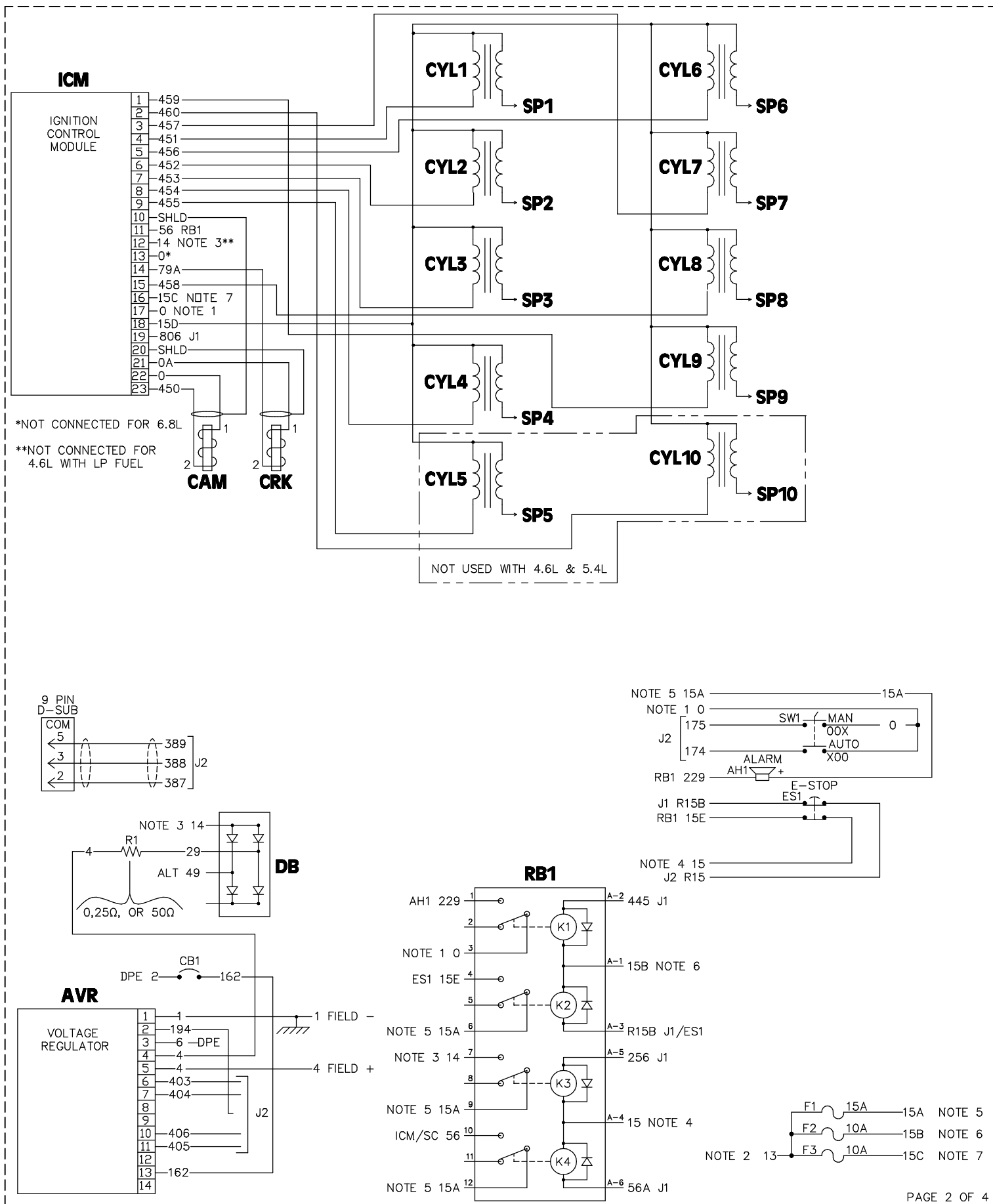
ENGINE CONTROL MODULE CONNECTIONS**J1**

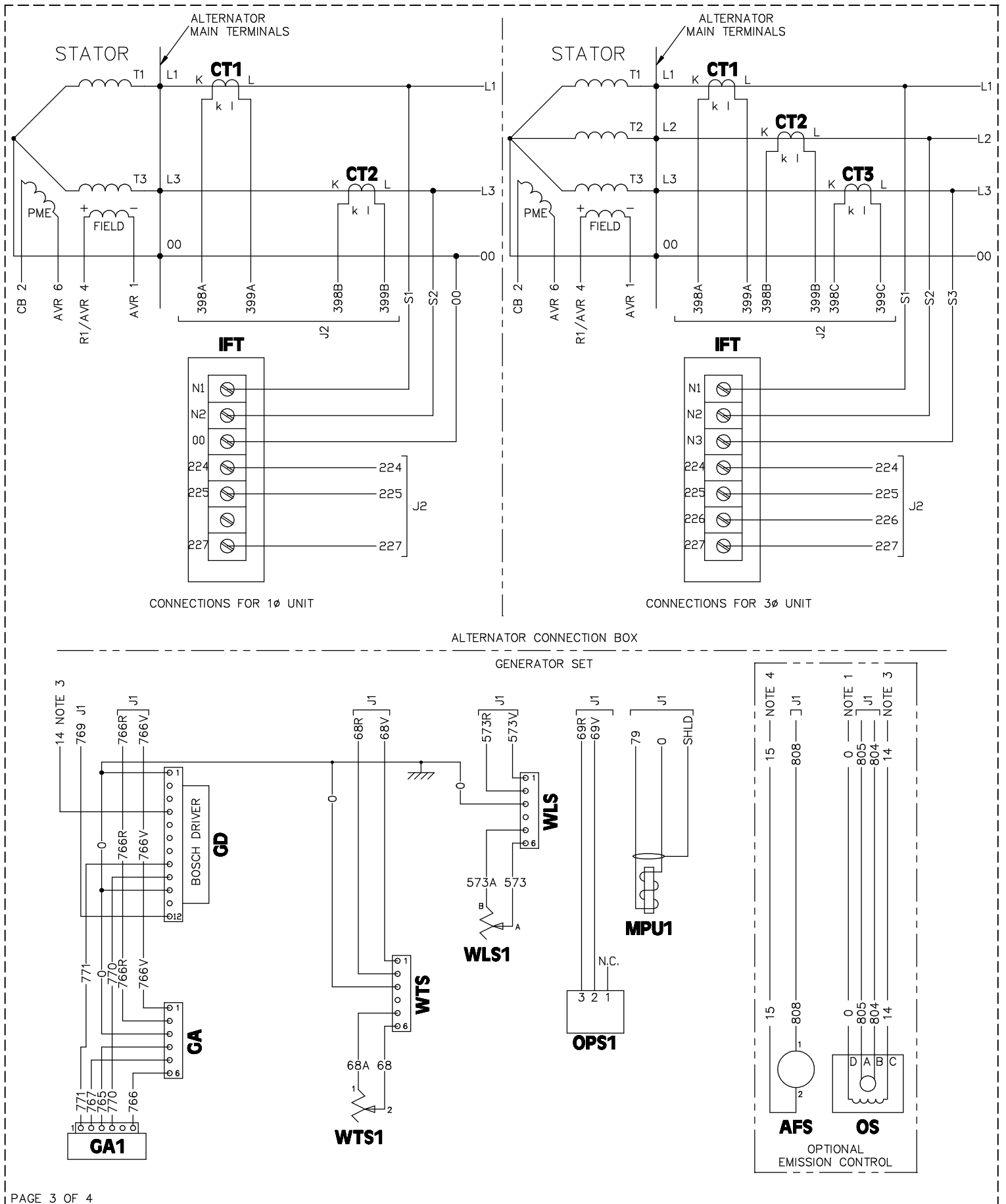
PIN	WIRE	TO	FUNCTION
3	810	MOD-2	EXTERNAL MODEM GROUND
4	805	OS	OXYGEN SENSOR RTN (OPTION)
5	804	OS	OXYGEN SENSOR + (OPTION)
10	R15B	RB1A-3/ES1	OVERSPEED/WATCHDOG
11	256	RB1A-5	FUEL RELAY
12	0	GND	NOTE 1
14	811	MOD-3	DCD
15	68V	WTS-1	COOLANT TEMP +
16	803	BCH	BAT CHARGER CURRENT
17	766R	GA-2	THROTTLE POS RTN
18	766V	GA-1	THROTTLE POS +
19	69R	OPS-3	OIL PRESS RTN
20	69V	OPS-1	OIL PRESS +
21	808	AFS	AIR/FUEL SOLENOID (OPTION)
23	56A	RB1A-6	STARTER RELAY
24	0	MPU1-2	MPU1 SIGNAL (-)
25	79	MPU1-3	MPU1 SIGNAL (+)
26	812	MOD-4	ENABLE
27	806	ICM-19	IGNITION ALARM
29	573R	WLS-2	COOLANT LVL RTN
30	573V	WLS-1	COOLANT LVL +
31	68R	WTS-2	COOLANT TEMP RTN
32	809	MOD-1	+12
33	769	GD-12	THROTTLE PWM
34	445	RB1A-2	ALARM RELAY
35	15B	F2	NOTE 6

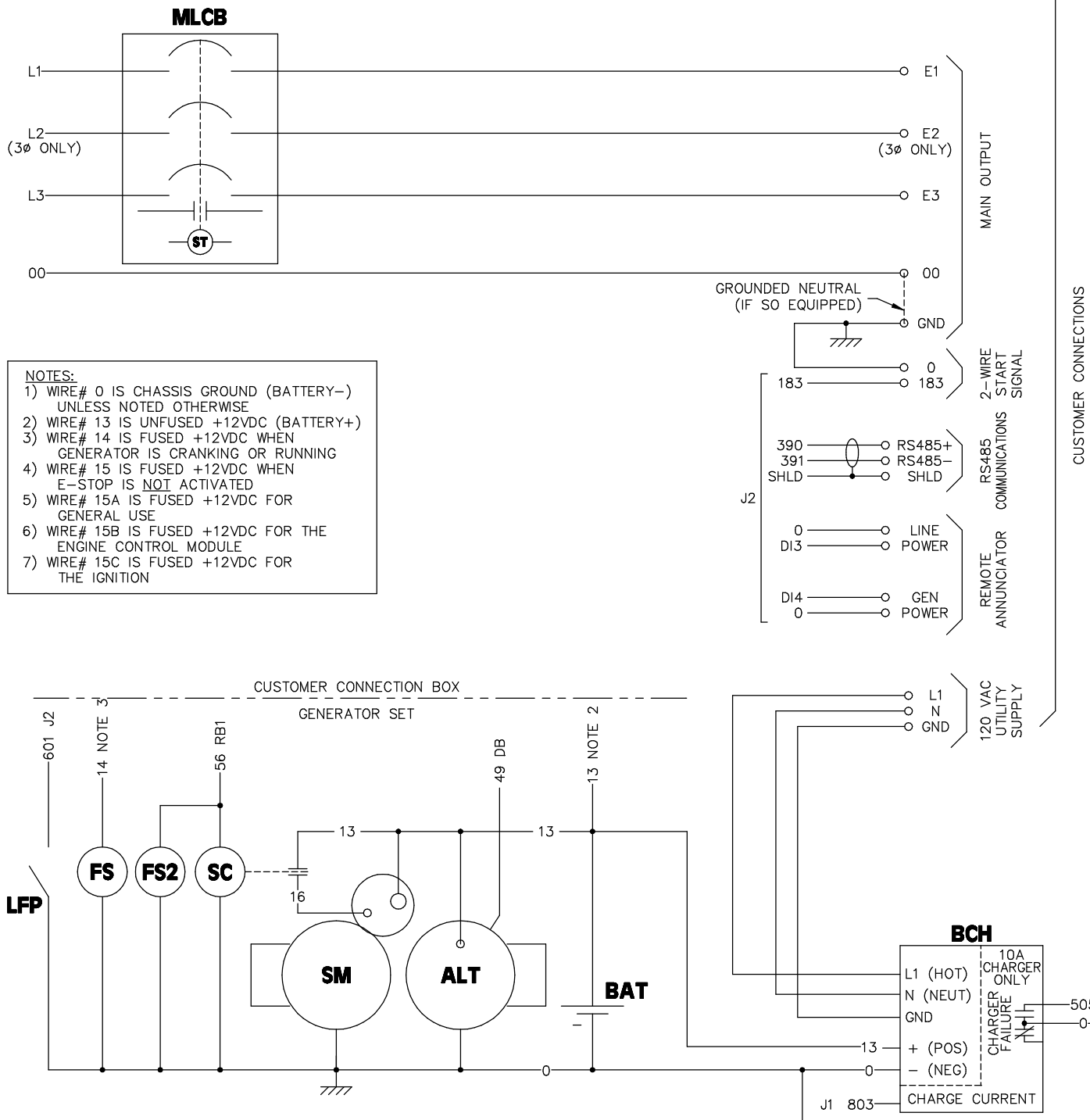
J2

PIN	WIRE	TO	FUNCTION
1	391	CUST CON	RS485- (XFER SW)
2	388	COM-3	RS232 TX (GENLINK)
3	DI3	CUST CON	LINE POWER SIGNAL
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	601	LFP	LOW FUEL PRESSURE
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
24	SHLD	CUST CON	RS485 DRAIN (XFER SW)
25	389	COM-5	RS232 COM (GENLINK)
26	DI4	CUST CON	GEN POWER SIGNAL
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
34	399B	CT2	GEN B PH CURRENT-
35	398B	CT2	GEN B PH CURRENT+

* - CONNECTIONS NOT USED IN 10 UNITS.







LEGEND

00 - NEUTRAL	CRK - CRANKSHAFT SENSOR	IFT - INTERFACE TRANSFORMER	SM - STARTER MOTOR
AFS - AIR/FUEL SOLENOID	CT - CURRENT TRANSFORMER	ISO - ISOLATED (ELECTRICALLY)	SP - SPARK PLUG
AH1 - ALARM HORN	CUST CON - CUSTOMER CONNECTION	J - ENGINE CONTROLLER CONNECTIONS	ST - SHUNT TRIP
ALT - CHARGE ALTERNATOR	CYL - CYLINDER IGNITION COIL	MLCB - MAIN LINE CIRCUIT BREAKER	SW1 - AUTO/MANUAL SELECT SWITCH
AVR - AUTOMATIC VOLTAGE REGULATOR	DPE - EXCITER	MPU - MAGNETIC PICK-UP	WLS - WATER LEVEL SENSOR
BAT - BATTERY (12VDC)	ES1 - E-STOP SWITCH	OPS - OIL PRESSURE SENDER	WTS - WATER TEMPERATURE SENDER
BCH - BATTERY CHARGER	F - FUSE	OS - OXYGEN SENSOR	
CAM - CAMSHAFT SENSOR	FS - FUEL SOLENOID	R - RESISTOR	
CB - CIRCUIT BREAKER	GA - GOVERNOR ACTUATOR	RB - RELAY BOARD	
COM - COMMUNICATION CONNECTOR	GD - GOVERNOR DRIVER	SC - STARTER CONTACTOR	
	ICM - IGNITION CONTROL MODULE	SHLD - SHIELD	