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

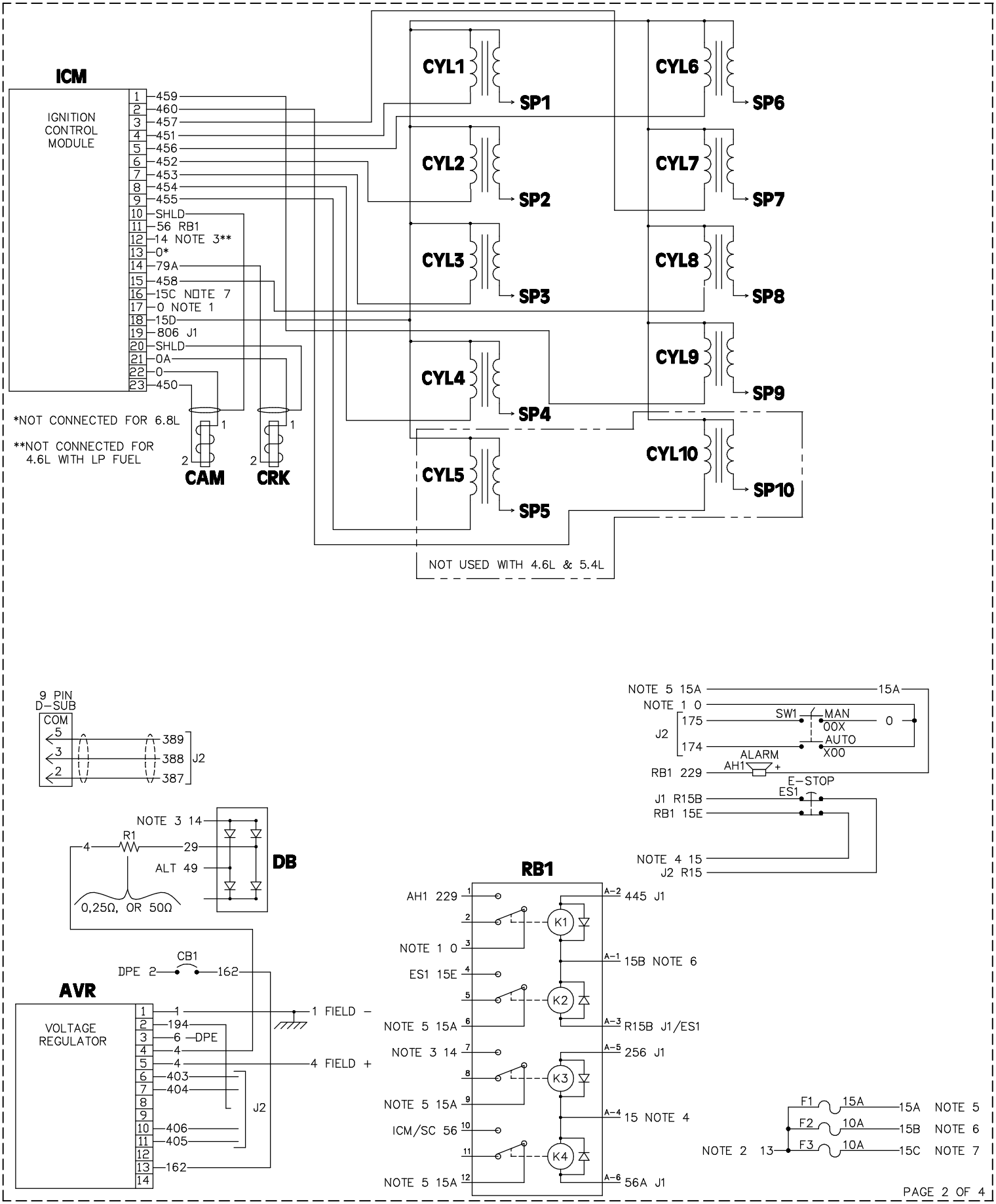
J1

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 1Ø UNITS.

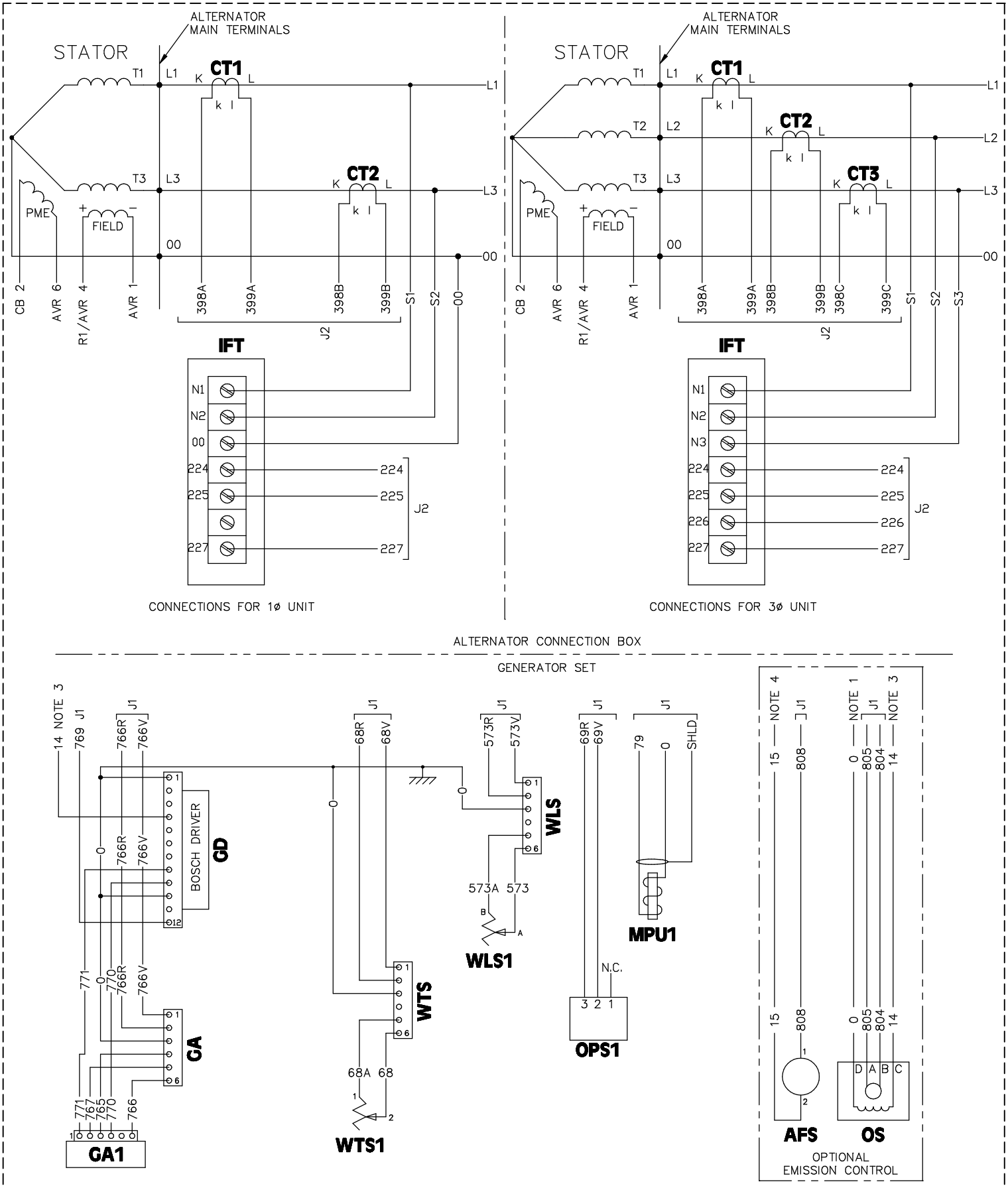


SCHEMATIC - DIAGRAM

4.6L, 5.4L & 6.8L H-PANEL

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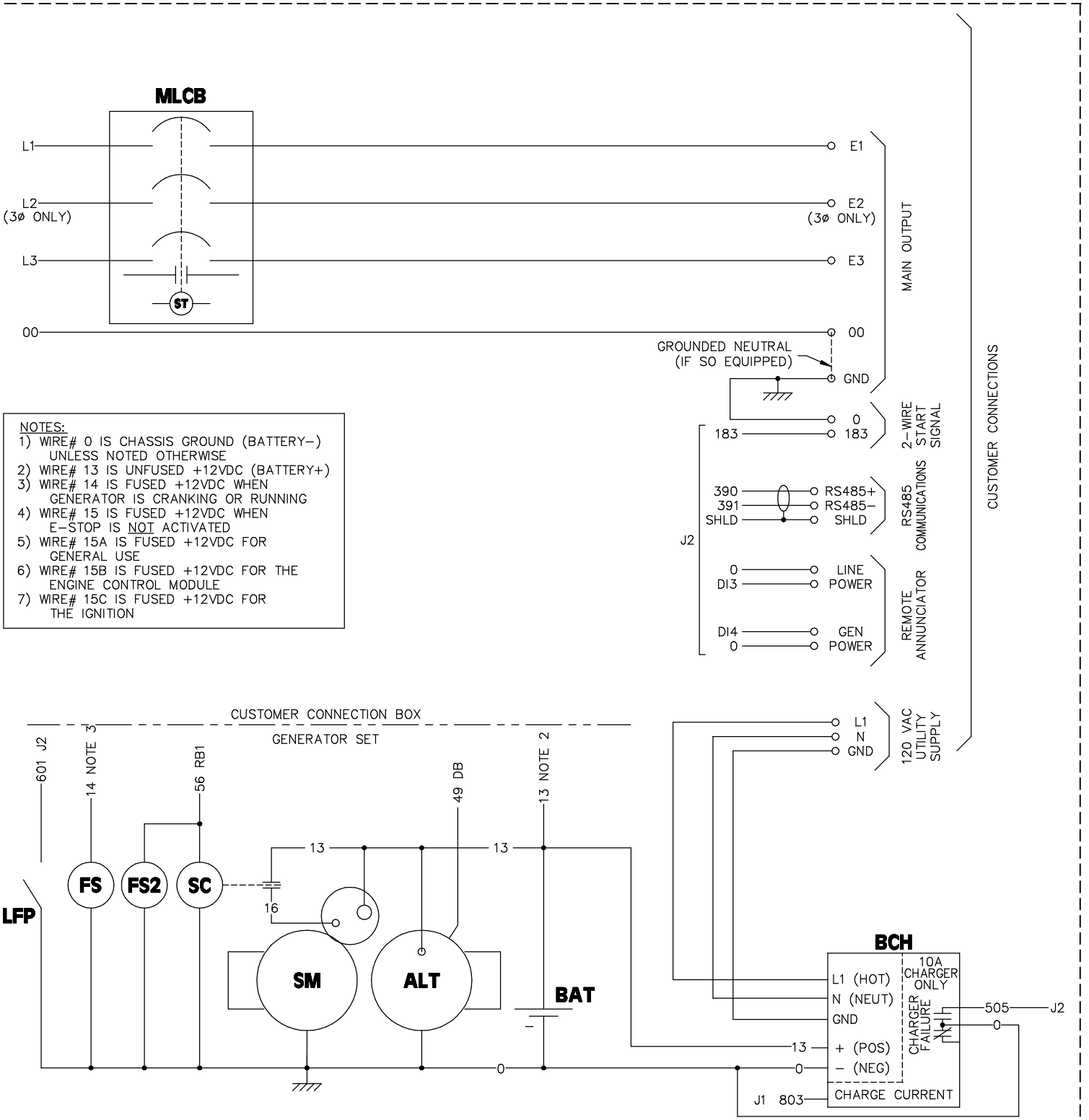
SCHEMATIC - DIAGRAM

4.6L, 5.4L & 6.8L H-PANEL

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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
7) WIRE# 15C IS FUSED +12VDC FOR THE IGNITION

LEGEND

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

SCHEMATIC - DIAGRAM

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4.6L, 5.4L & 6.8L H-PANEL

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