

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 (ISOLATED)
13	162	CB1	PME OUTPUT (AFTER CB)

GD CONNECTOR

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

ICM CONNECTOR

PIN	WIRE	TO	FUNCTION
3	454	CYL4	IGNITION COIL DRIVE 4
4	451	CYL1	IGNITION COIL DRIVE 1
5	452	CYL2	IGNITION COIL DRIVE 2
7	455	CYL5	IGNITION COIL DRIVE 5
9	453	CYL3	IGNITION COIL DRIVE 3
10	SHLD	CUT	CAMSHAFT SENSOR DRAIN
11	56	RB1-10	STARTER RELAY OUT
12	14	RB1-7	NOTE 3
14	79A	CSS-2	CRANKSHAFT SENSOR +
15	456	CYL6	IGNITION COIL DRIVE 6
16	15C	F3	NOTE 7
17	0	GND	NOTE 1
18	15D	CYL1-CYL6	IGNITION COIL POWER
19	806	J2-15	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 +

HUIO CONNECTIONS**J1**

PIN	WIRE	TO	FUNCTION
1	15A	F1	NOTE 5
2	0	GND	NOTE 1

J2

PIN	WIRE	TO	FUNCTION
1	601	LFP1	LOW FUEL PRESSURE + (LP)
2	0	LFP1	LOW FUEL PRESSURE RTN (LP)
5	447	GFB	GENERATOR FLUID BASIN +
6	0	GFB	GENERATOR FLUID BASIN RTN
7	795	SW1/MDS	LP TANK MAGNETIC DOOR SWITCH

J5

PIN	WIRE	TO	FUNCTION
1	R15BA	RB1A-3	FAULT SHUTDOWN
2	R15B	J1-10/ES1	FAULT SHUTDOWN
3	56B	RB1A-6	STARTER RELAY ENABLE
4	56A	J2-15	STARTER RELAY ENABLE

J6

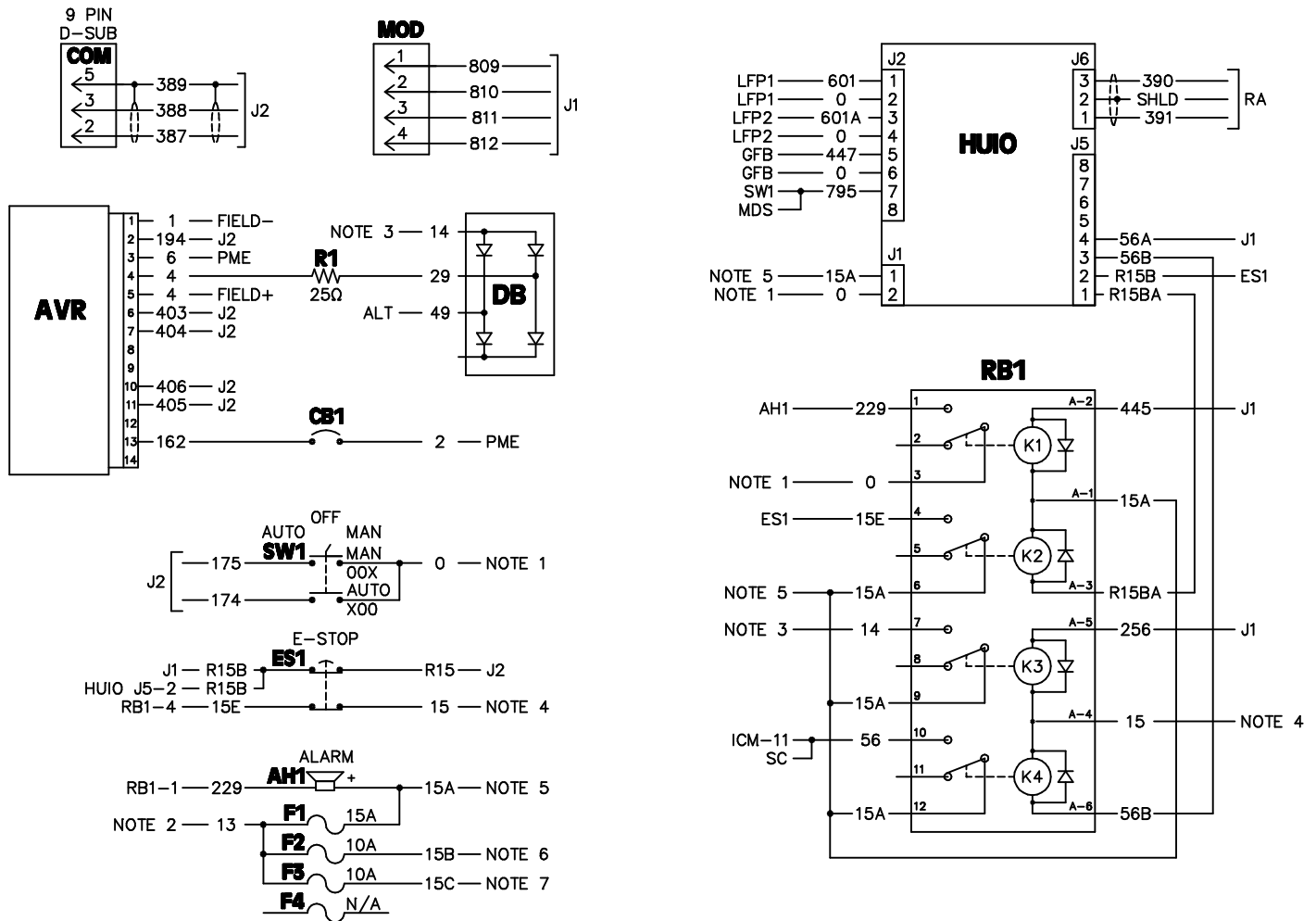
PIN	WIRE	TO	FUNCTION
1	391	CUST/RRP/J1	RS485-
2	SHLD	CUST/RRP/J1	RS485 DRAIN
3	390	CUST/RRP/J1	RS485+

GENERATOR CONTROL MODULE CONNECTIONS**J1**

PIN	WIRE	TO	FUNCTION
3	810	MOD-2	MODEM SIGNAL RETURN
4	0	GND	NOTE 1
6	575R	ESC6-2	FUEL LEVEL RTN
7	575V	ESC6-1	FUEL LEVEL +
10	R15B	HUIO J5-2/ES1	OVERSPEED/WATCHDOG
11	256	RB1A-5	FUEL RELAY
12	0	GND	NOTE 1
14	811	MOD-3	MODEM DATA CARRIER DETECT
15	68V	ESC1-1	COOLANT TEMP +
16	803	BCH	BAT CHARGER CURRENT
17	766R	ESC3-2	THROTTLE POS RTN
18	766V	ESC3-1	THROTTLE POS +
19	69R	OPS1-3	OIL PRESS RTN
20	69V	OPS1-2	OIL PRESS +
23	56A	HUIO J5-4	STARTER RELAY
24	0	MPU1-2	MPU1 SIGNAL -
25	79	MPU1-3	MPU1 SIGNAL +
26	812	MOD-4	MODEM ENABLE
29	573R	ESC2-2	COOLANT LVL RTN
30	573V	ESC2-1	COOLANT LVL +
31	68R	ESC1-2	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

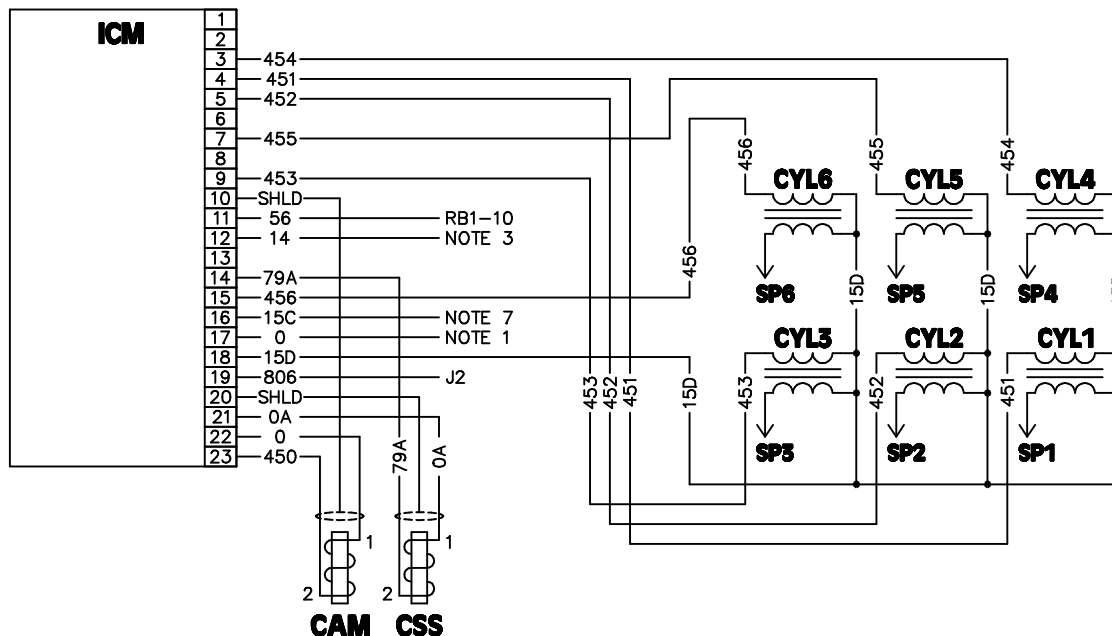
J2

PIN	WIRE	TO	FUNCTION
1	391	CUST CON	RS485-
2	388	COM-3	RS232 TX (GENLINK)
3	D13	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
11	399A	CT1	GEN A PH CURRENT -
12	398A	CT1	GEN A PH CURRENT +
13	390	CUST CON	RS485+
14	387	COM-2	RS232 RX (GENLINK)
15	806	ICM-19	IGNITION ALARM
16	R15	ES1	EMERGENCY STOP
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
25	389	COM-5	RS232 COM (GENLINK)
26	D14	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
33	OC7	RB3A-5	SPARE OUTPUT 3
34	399B	CT2	GEN B PH CURRENT-
35	398B	CT2	GEN B PH CURRENT+



CONTROL PANEL BOX

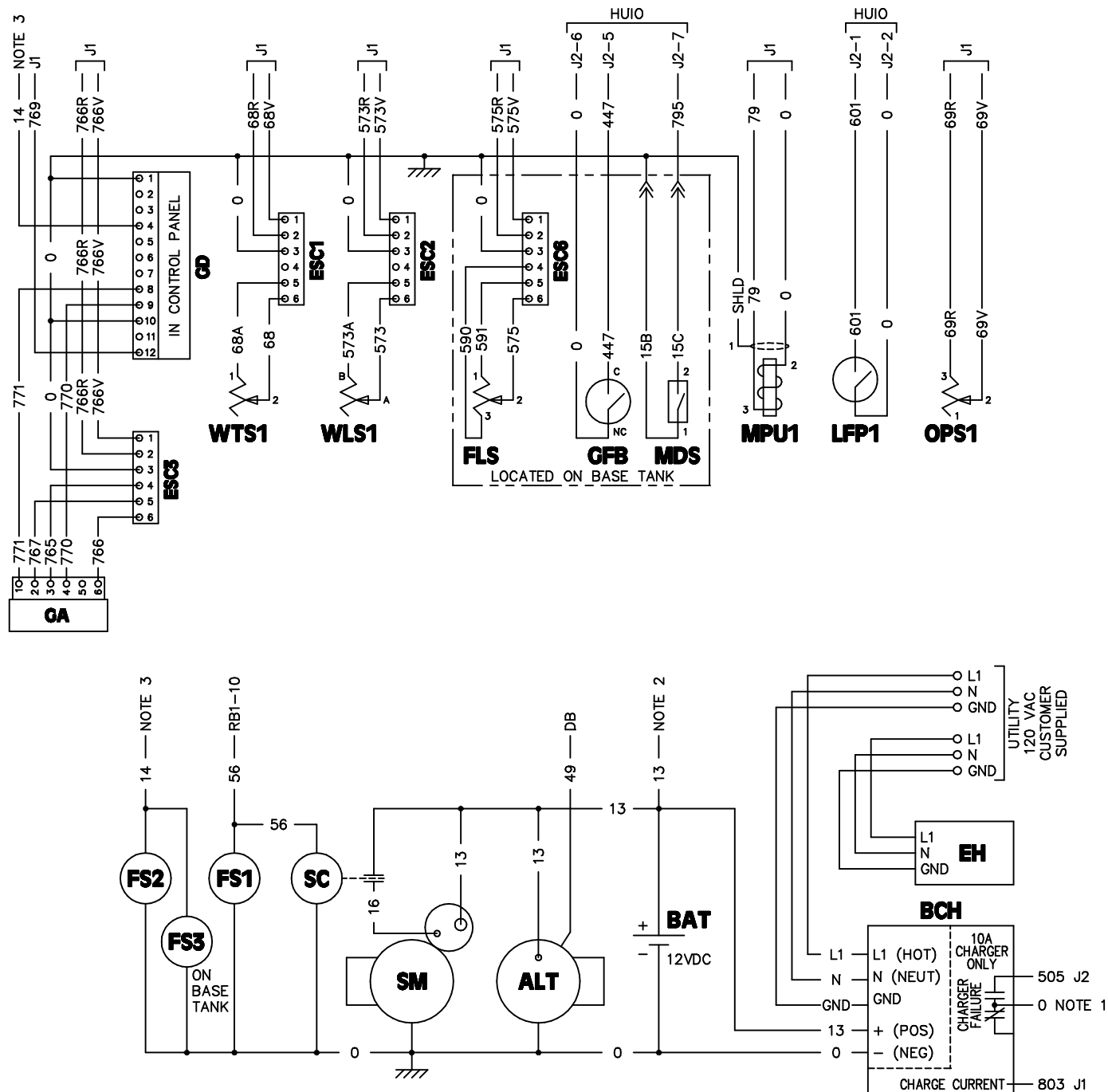
GENERATOR SET



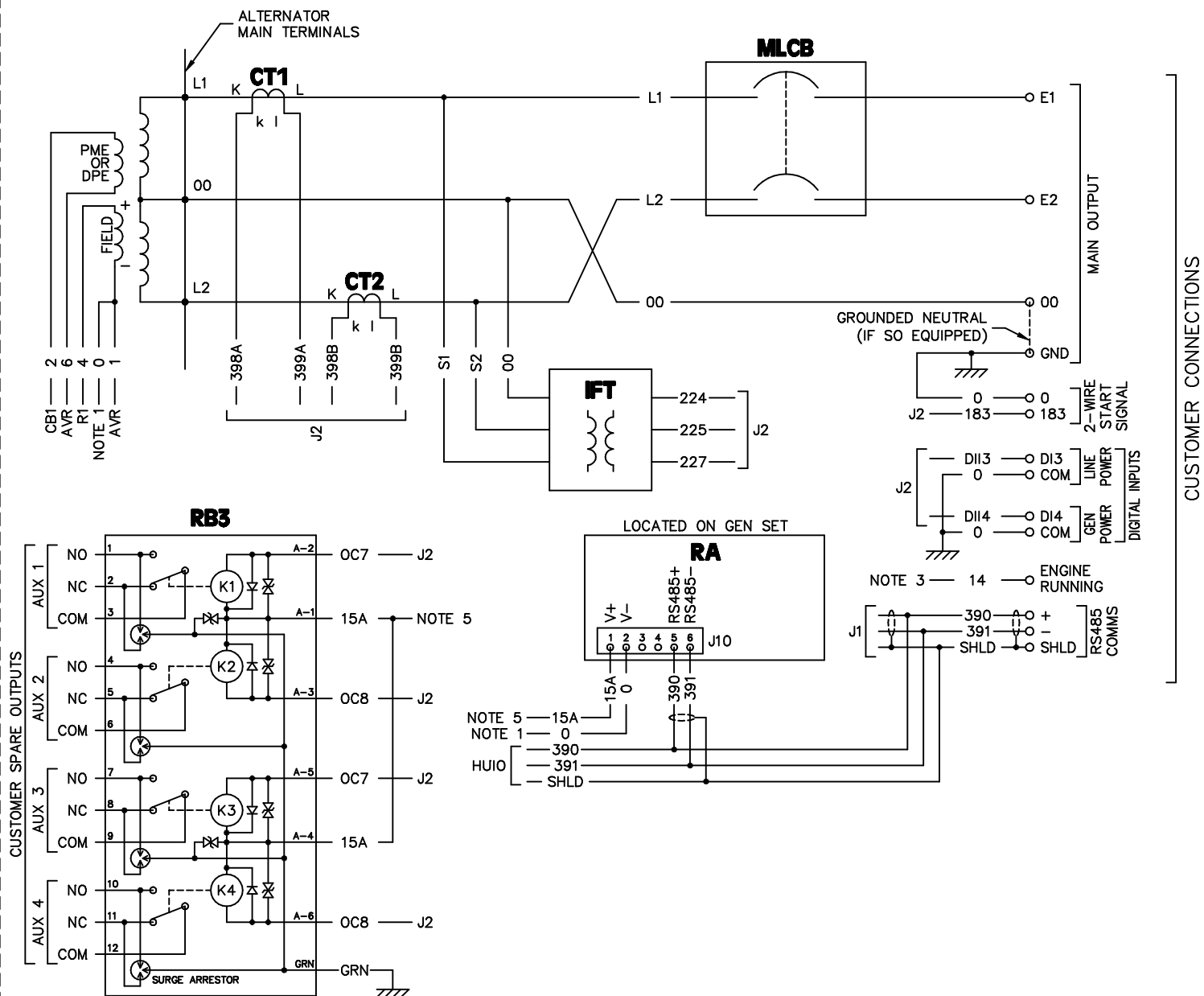
COMPONENTS LOCATED ON GENERATOR SET

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
GENERATOR CONTROL MODULE.
- 7) WIRE# 15C IS FUSED +12VDC FOR
THE IGNITION CONTROL MODULE.



COMPONENTS LOCATED IN ALTERNATOR CONNECTION BOX



LEGEND

00 - NEUTRAL	CT_ - CURRENT TRANSFORMER	GD - GOVERNOR DRIVER	OPS1 - OIL PRESSURE SENDER
AH1 - ALARM HORN	CYL - CYLINDER IGNITION COIL	GFB - GENERATOR FLUID BASIN	PME - PERMANENT MAGNET EXCITER
ALT - CHARGE ALTERNATOR	DB - DIODE BRIDGE	HUIO - H-PANEL UNIT I/O	R_ - RESISTOR
AVR - AUTOMATIC VOLTAGE REGULATOR	DI_ - DIGITAL INPUT	ICM - IGNITION CONTROL MODULE	RA - REMOTE ANNUNCIATOR
BAT - BATTERY	EH - ENGINE BLOCK HEATER	IFT - INTERFACE TRANSFORMER	RB_ - RELAY BOARD
BCH - BATTERY CHARGER	ES1 - EMERGENCY STOP	J_ - GEN. CONTROLLER CONNECTIONS	SC - STARTER CONTACTOR
CAM - CAMSHAFT SENSOR	ESC_ - ELECT. SIGNAL CONDITIONER	LFP - LOW FUEL PRESSURE SWITCH	SM - STARTER MOTOR
CB1 - CIRCUIT BREAKER	F_ - FUSE	MDS - MAGNETIC DOOR SWITCH	SP_ - SPARK PLUG
COM - COMMUNICATION CONNECTOR	FLS - FUEL LEVEL SENDER	MLCB - MAIN LINE CIRCUIT BREAKER	SW1 - AUTO/MANUAL SWITCH
CSS - CRANKSHAFT SENSOR	FS_ - FUEL SOLENOID	MOD - MODEM CONNECTOR	WLS1 - COOLANT LEVEL SENSOR
	GA - GOVERNOR ACTUATOR	MPU1 - MAGNETIC PICK UP	WTS1 - COOLANT TEMP. SENSOR