

## 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      |

## ICM - IGNITION MODULE CONNECTOR

| PIN | WIRE# | TO     | FUNCTION               |
|-----|-------|--------|------------------------|
| 1   | 25    | IC     | IGNITION COIL DRIVE    |
| 10  | 194   | DIST   | DIST FEEDBACK (+)      |
| 11  | 56    | RB1-10 | STARTER RELAY OUT      |
| 13  | JMP1  | ICM-15 | 3.9L ENGINE SEL RETURN |
| 14  | 79A   | MPU2-3 | MPU2 SIGNAL (+)        |
| 15  | JMP1  | ICM-13 | 3.9L ENGINE SELECT     |
| 16  | 15C   | F3     | NOTE 7                 |
| 17  | 0     | GND    | NOTE 1                 |
| 18  | 9A    | IC     | IGNITION COIL PWR      |
| 20  | SHLD  | MPU2-1 | MPU2 DRAIN             |
| 21  | 0A    | MPU2-2 | MPU2 SIGNAL (-)        |
| 22  | 0     | DIST   | DIST FEEDBACK (-)      |
| 23  | 402   | DIST   | DIST FEEDBACK          |

## AVR CONNECTOR

| PIN | WIRE# | TO       | FUNCTION              |
|-----|-------|----------|-----------------------|
| 1   | 1     | FIELD    | - FIELD               |
| 2   | 194   | J2-31    | +12VDC                |
| 3   | 6     | PMG      | PME 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 (ISD)          |
| 13  | 162   | CB1      | PME OUTPUT (AFTER CB) |

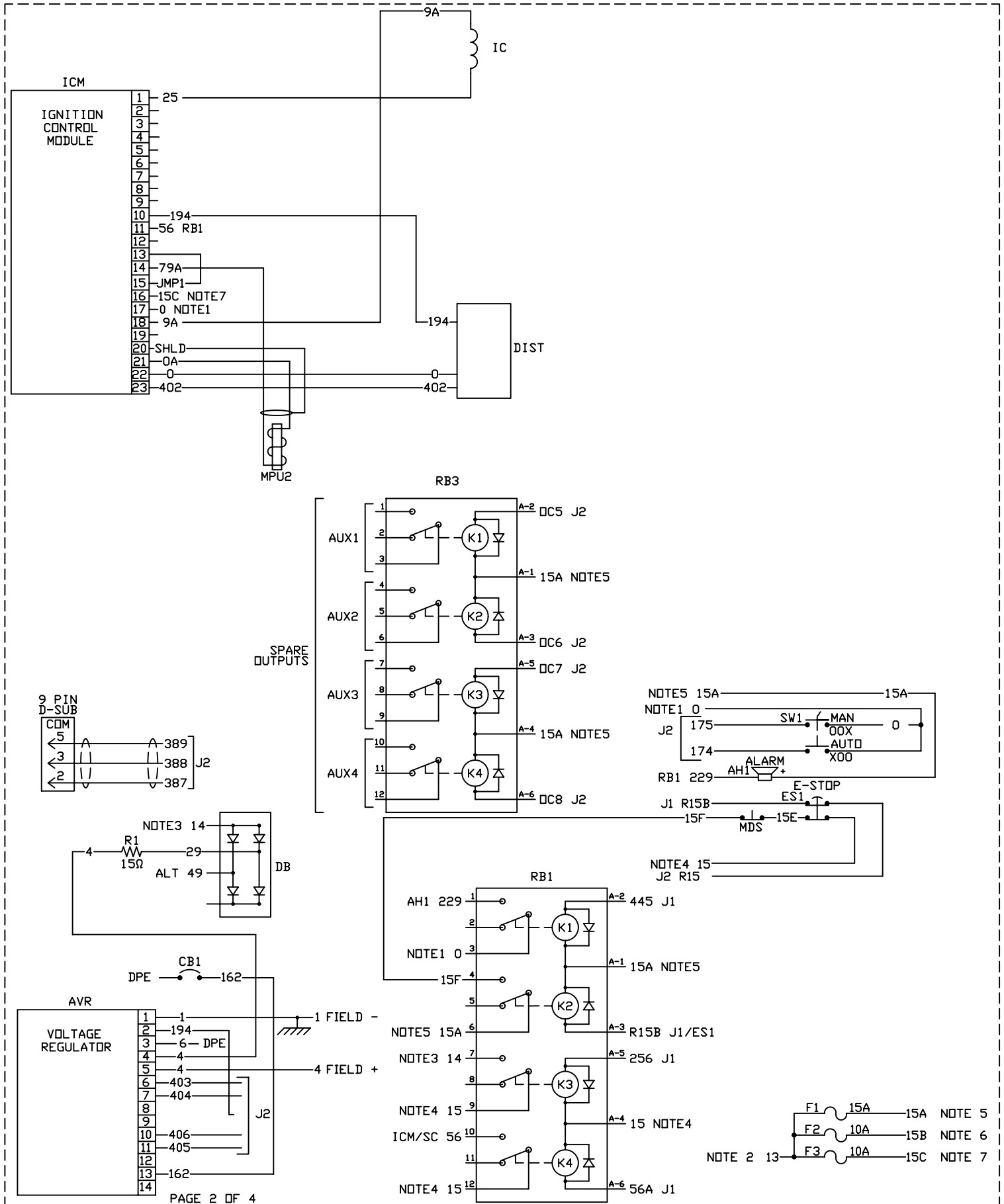
## ENGINE CONTROL MODULE CONNECTIONS

J1

| PIN | WIRE | TO         | FUNCTION            |
|-----|------|------------|---------------------|
| 3   | 810  | MODEM      | OPTION              |
| 5   | 447A | DAC        | GEN FLUID BASIN     |
| 6   | 575R | FLS-2      | FUEL LEVEL RTN      |
| 7   | 575V | FLS-1      | FUEL LEVEL +        |
| 10  | R15B | RB1A-3/ESI | OVERSPEED/WATCHDOG  |
| 11  | 256  | RB1A-5     | FUEL RELAY          |
| 12  | 0    | GND        | NOTE 1              |
| 14  | 811  | MODEM      | OPTION              |
| 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  | DPS-3      | OIL PRESS RTN       |
| 20  | 69V  | DPS-2      | OIL PRESS +         |
| 23  | 56A  | RB1A-6     | STARTER RELAY       |
| 24  | 0    | MPU1-2     | MPU1 SIGNAL (-)     |
| 25  | 79   | MPU1-3     | MPU1 SIGNAL (+)     |
| 26  | 812  | MODEM      | OPTION              |
| 27  | 602  | DAC        | LOW FUEL PRESSURE   |
| 28  | 15R  | DAC        | ANALOG +            |
| 29  | 573R | WLS-2      | COOLANT LVL RTN     |
| 30  | 573V | WLS-1      | COOLANT LVL +       |
| 31  | 68R  | WTS-2      | COOLANT TEMP RTN    |
| 32  | 809  | MODEM      | OPTION              |
| 33  | 769  | GD-12      | THROTTLE PWM        |
| 34  | 445  | RB1A-2     | ALARM RELAY         |
| 35  | 15B  | F2         | NOTE 6              |

J2

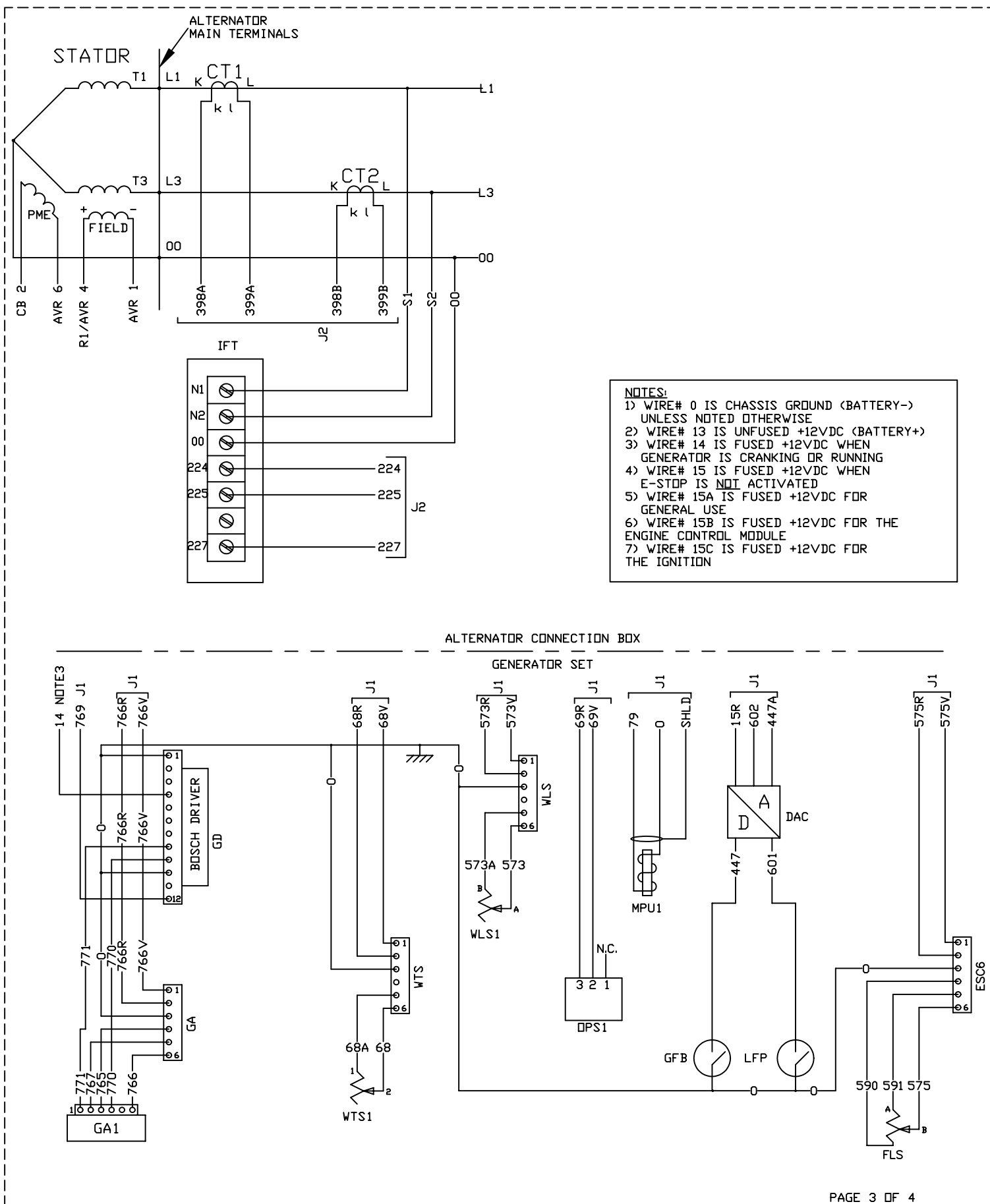
| PIN | WIRE | TO       | FUNCTION              |
|-----|------|----------|-----------------------|
| 1   | 391  | CUST CON | RS485- (XFER SW)      |
| 2   | 388  | CDM-3    | RS232 TX (GENLINK)    |
| 3   | DI3  | CUST CON | SPARE IN 3/LINE PWR   |
| 4   | 183  | CUST CON | REMOTE START          |
| 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    |
| 11  | 399A | CT1      | GEN A PH CURRENT -    |
| 12  | 398A | CT1      | GEN A PH CURRENT +    |
| 13  | 390  | CUST CON | RS485+ (XFER SW)      |
| 14  | 387  | CDM-2    | RS232 RX (GENLINK)    |
| 15  | 546  | PGD      | PROPANE GAS DETECTOR  |
| 16  | R15  | ES1      | EMERGENCY STOP        |
| 19  | 405  | AVR-11   | AVR GROUND            |
| 20  | 404  | AVR-7    | AVR GATE TRIGGER A    |
| 21  | DC8  | RB3A-6   | SPARE OUTPUT 4        |
| 22  | DC6  | RB3A-3   | SPARE OUTPUT 2        |
| 23  | DC5  | RB3A-2   | SPARE OUTPUT 1        |
| 24  | SHLD | CUST CON | RS485 DRAIN (XFER SW) |
| 25  | 389  | CDM-5    | RS232 CDM (GENLINK)   |
| 26  | DI4  | 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  | DC7  | RB3A-5   | SPARE OUTPUT 3        |
| 34  | 399B | CT2      | GEN B PH CURRENT-     |
| 35  | 398B | CT2      | GEN B PH CURRENT+     |

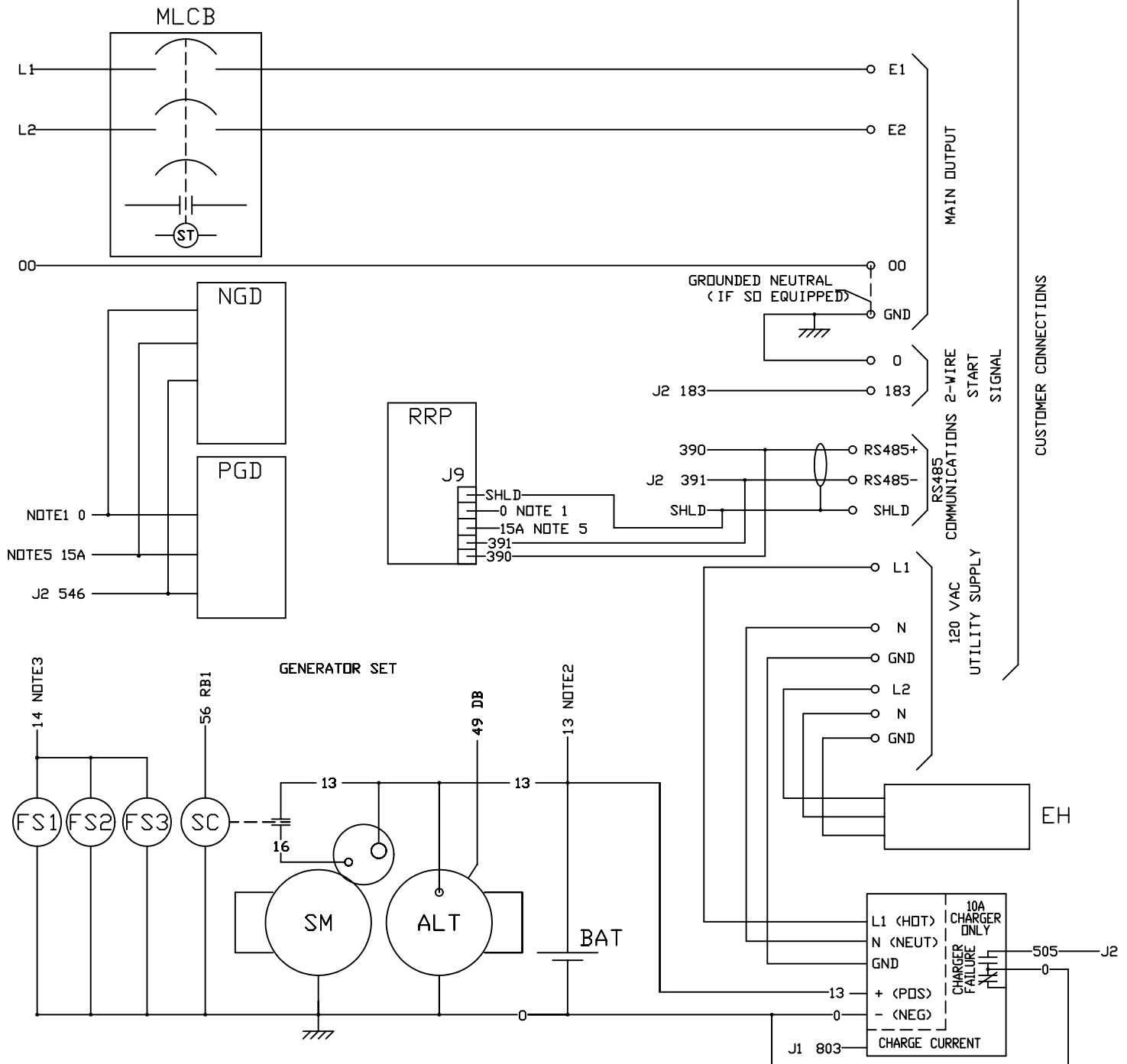


SCHEMATIC - DIAGRAM

H-100 VERIZON

DRAWING #: 0F6806





## LEGEND

OO - NEUTRAL  
 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  
 DAC - D/A CONVERTER

DIST - DISTRIBUTOR  
 DPE - EXCITER  
 EH - ENGINE WATER HEATER  
 ES1 - E-STOP SWITCH  
 F - FUSE  
 FLS - FUEL LEVEL SENDER  
 FS - FUEL SOLENOID  
 GA - GOVERNOR ACTUATOR  
 GD - GOVERNOR DRIVER  
 GFB - GENERATOR FLUID BASIN SWITCH  
 IC - IGNITION COIL  
 ICM - IGNITION CONTROL MODULE  
 IFT - INTERFACE TRANSFORMER  
 ISO - ISOLATED (ELECTRICALLY)

J - ENGINE CONTROLLER CONNECTIONS  
 LFP - LOW FUEL PRESSURE SWITCH  
 MDS - MAGNETIC DOOR SWITCH  
 MLCB - MAIN LINE CIRCUIT BREAKER  
 MPU - MAGNETIC PICK-UP  
 NGD - NATURAL GAS DETECTOR  
 DPS - OIL PRESSURE SENDER  
 PGD - PROPANE GAS DETECTOR  
 R - RESISTOR  
 RB - RELAY BOARD  
 SC - STARTER CONTACTOR  
 SHLD - SHIELD  
 SM - STARTER MOTOR  
 ST - SHUNT TRIP  
 SW1 - AUTO/MANUAL SELECT SWITCH  
 WLS - WATER LEVEL SENSOR  
 WTS - WATER TEMPERATURE SENDER