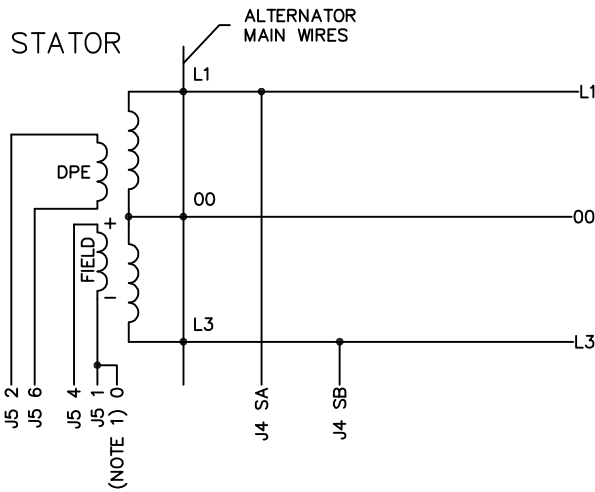
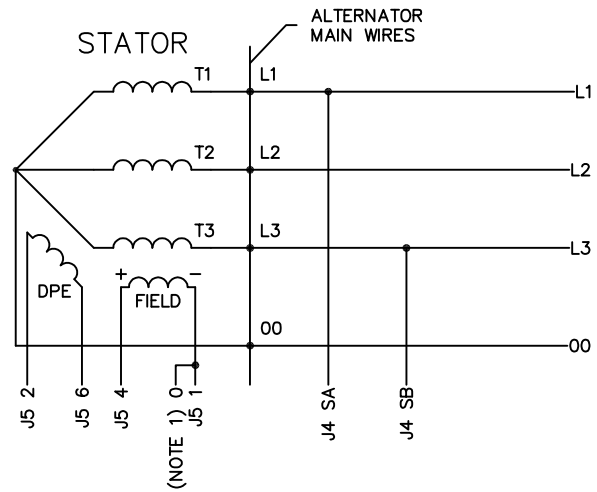


## LEGEND

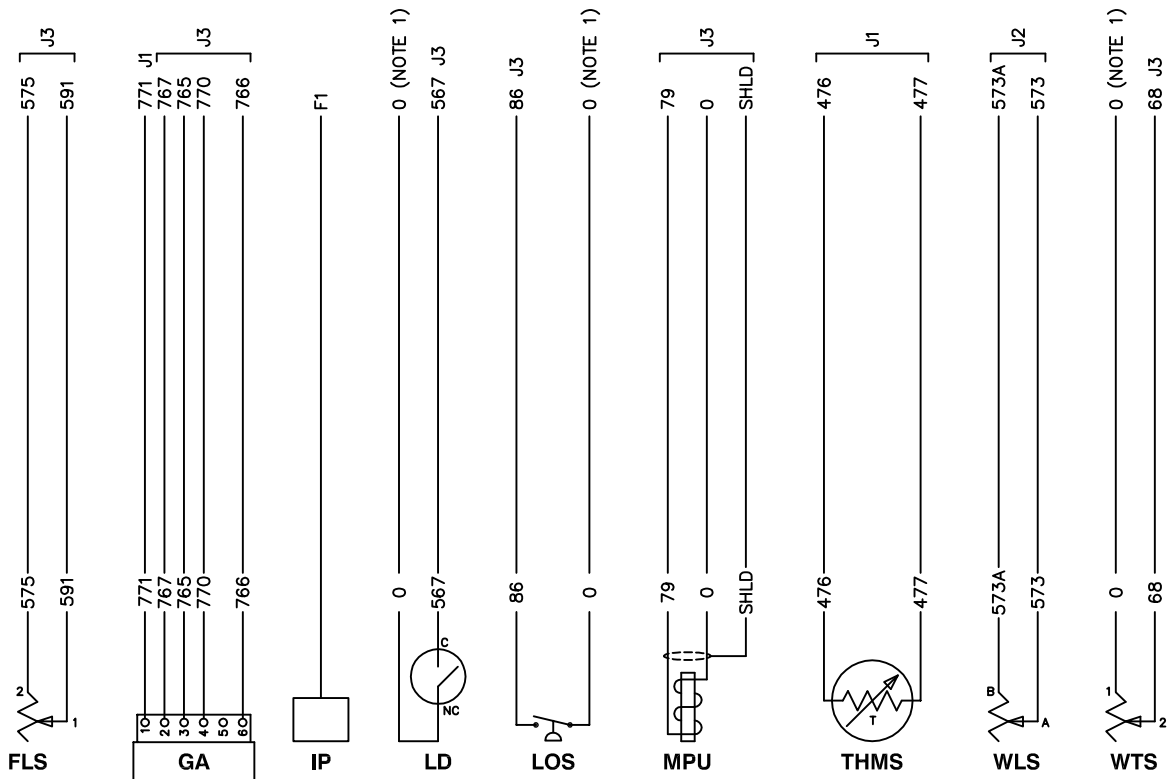
|                             |                            |                                  |                                  |
|-----------------------------|----------------------------|----------------------------------|----------------------------------|
| 00 - NEUTRAL                | F_ - FUSE                  | LOS - LOW OIL PRESSURE SWITCH    | SM - STARTER MOTOR               |
| ALT - DC CHARGE ALTERNATOR  | FLS - FUEL LEVEL SENDER    | MLCB - MAIN LINE CIRCUIT BREAKER | THMS - THERMISTOR                |
| BAT - BATTERY               | GA - GOVERNOR ACTUATOR     | MPU - MAGNETIC PICKUP            | WLS - COOLANT LEVEL SENSOR       |
| BCH - BATTERY CHARGER       | GP - GLOW PLUG             | PHC - PREHEAT CONTACTOR          | WTS - COOLANT TEMPERATURE SENSOR |
| DB - DIODE BRIDGE           | IP - INJECTION PUMP        | R - RESISTOR                     |                                  |
| DPE - EXCITER               | J_ - MAIN CONTROLLER CONN. | RLY - CONTROL RELAY              |                                  |
| ES_ - EMERGENCY STOP SWITCH | LD - LEAK DETECTOR         | SC - STARTER CONTACTOR           |                                  |



ALTERNATOR CONNECTIONS FOR 1φ UNITS



ALTERNATOR CONNECTIONS FOR 3φ 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 #13A IS UNFUSED +12VDC (BATTERY+) WHEN GENERATOR IS CRANKING OR RUNNING AND E-STOP IS NOT ACTIVATED.
- 5) WIRE# 14A IS LOW CURRENT FUSED +12VDC WHEN GENERATOR IS CRANKING OR RUNNING AND E-STOP IS NOT ACTIVATED.
- 6) WIRE# 14B IS HIGH CURRENT FUSED +12VDC WHEN GENERATOR IS CRANKING OR RUNNING AND E-STOP IS NOT ACTIVATED (FUSED 13A).

## MAIN CONTROLLER CONNECTIONS

## J1

| PIN | WIRE | TO       | FUNCTION                     |
|-----|------|----------|------------------------------|
| 1   | 13   | BATTERY+ | NOTE 2                       |
| 2   | 13   | BATTERY+ | NOTE 2                       |
| 3   | 56   | ES1      | STARTER OUTPUT               |
| 4   | 0    | GND      | NOTE 1                       |
| 5   | 183  | CUST CON | REMOTE START                 |
| 6   | 194  | CUST CON | TRANSFER RELAY COIL +        |
| 7   | 23   | CUST CON | TRANSFER RELAY COIL CONTROL  |
| 8   | 209  | CAR      | COMMON ALARM                 |
| 9   | 14   | ES1      | NOTE 3                       |
| 10  | 771  | GA-1     | THROTTLE DRIVE LO            |
| 11  | 476  | THMS     | THERMISTOR (BATTERY CHARGER) |
| 12  | 477  | THMS     | THERMISTOR (BATTERY CHARGER) |
| 14  | 178  | CUST CON | REMOTE START                 |
| 15  | 210  | CAR      | COMMON ALARM                 |
| 16  | 150  | PHC      | PREHEAT                      |

## J2

| PIN | WIRE  | TO        | FUNCTION                    |
|-----|-------|-----------|-----------------------------|
| 4   | 396   | ES1       | E-STOP RETURN               |
| 6   | SHLD* | EGC (CUT) | CAN COMMUNICATION SHIELD    |
| 8   | 395   | ES1       | E-STOP SOURCE               |
| 9   | 573   | WLS-A     | COOLANT LEVEL SIGNAL        |
| 10  | 573A  | WLS-B     | COOLANT LEVEL SIGNAL RETURN |
| 11  | 743*  | EGC J1-7  | CAN COMMUNICATION HIGH      |
| 12  | 744*  | EGC J1-6  | CAN COMMUNICATION LOW       |

\*CAN COMMUNICATION AND ELECTRONIC GOVERNOR RELAY WIRES ARE NOT USED ON D2.3L, D2.4L, D3.4L, USED ON D2.2L ONLY.

## J3

| PIN | WIRE | TO     | FUNCTION                          |
|-----|------|--------|-----------------------------------|
| 1   | SHLD | MPU-1  | FLYWHEEL SENSOR DRAIN             |
| 4   | 591  | FLS-1  | FUEL LEVEL RTN                    |
| 5   | 575  | FLS-2  | FUEL LEVEL +                      |
| 6   | 68   | WTS-2  | COOLANT TEMP SIGNAL               |
| 7   | 765  | GA-3   | THROTTLE POSITION FEEDBACK SOURCE |
| 8   | 766  | GA-6   | THROTTLE POSITION FEEDBACK SIGNAL |
| 9   | 770  | GA-4   | THROTTLE DRIVE HI                 |
| 10  | 79   | MPU-3  | MPU SIGNAL (+)                    |
| 11  | 0    | MPU-2  | MPU SIGNAL (-)                    |
| 13  | 567  | LD     | LEAK DETECTOR                     |
| 14  | 575  | FLS-2  | FUEL LEVEL +                      |
| 15  | 86   | LOS-NC | LOW OIL PRESSURE SIGNAL           |
| 18  | 767  | GA-6   | THROTTLE POSITION FEEDBACK RETURN |

## J4

| PIN | WIRE | TO       | FUNCTION                  |
|-----|------|----------|---------------------------|
| 1   | SA   | MLCB     | OUTPUT VOLTAGE SENSING A  |
| 3   | N1   | CUST CON | UTILITY VOLTAGE SENSING 1 |
| 4   | SB   | MLCB     | OUTPUT VOLTAGE SENSING B  |
| 6   | N2   | CUST CON | UTILITY VOLTAGE SENSING 2 |

## J5

| PIN | WIRE | TO    | FUNCTION        |
|-----|------|-------|-----------------|
| 1   | 2    | DPE   | EXCITER OUTPUT  |
| 2   | 1    | FIELD | FIELD (BRUSH) - |
| 3   | 6    | DPE   | EXCITER RETURN  |
| 4   | 4    | FIELD | FIELD (BRUSH) + |

## J13

| PIN | WIRE | TO      | FUNCTION                         |
|-----|------|---------|----------------------------------|
| 6   | 25*  | EGCR-85 | ELECTRONIC GOVERNOR RELAY COIL + |

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