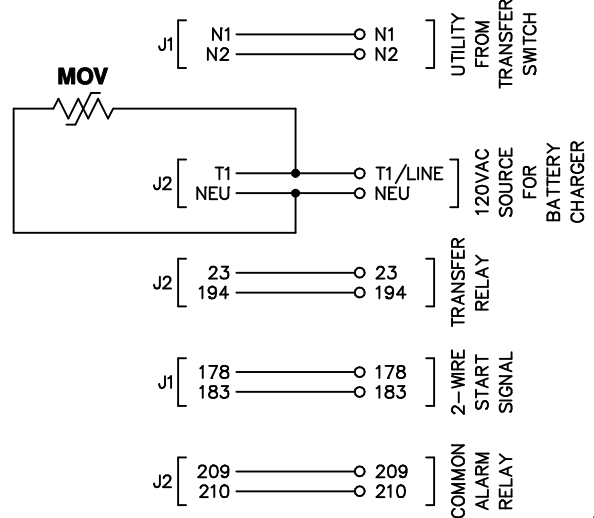
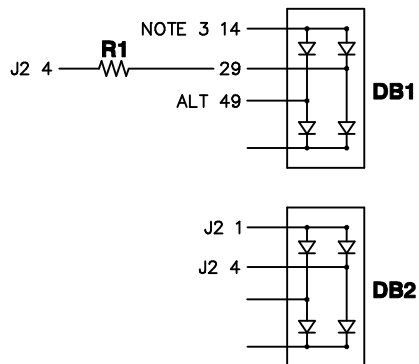
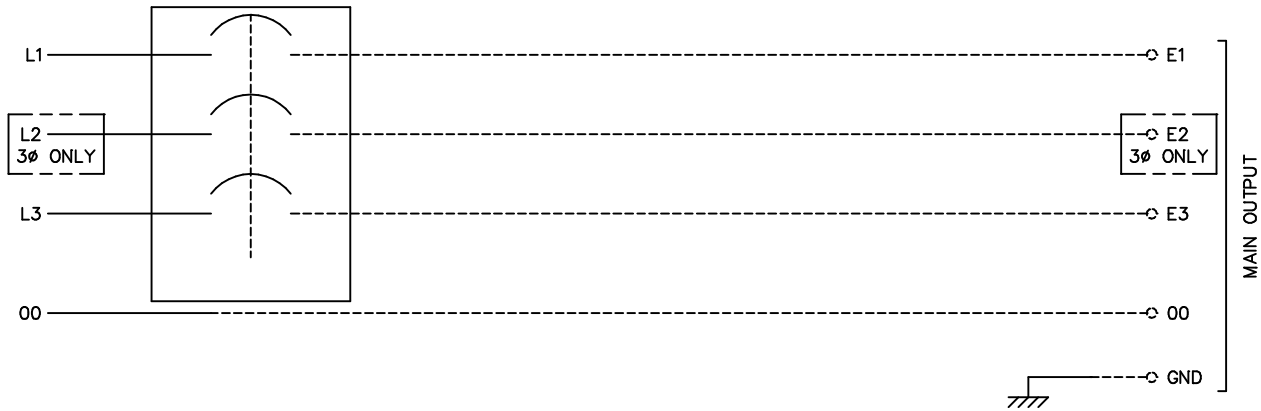
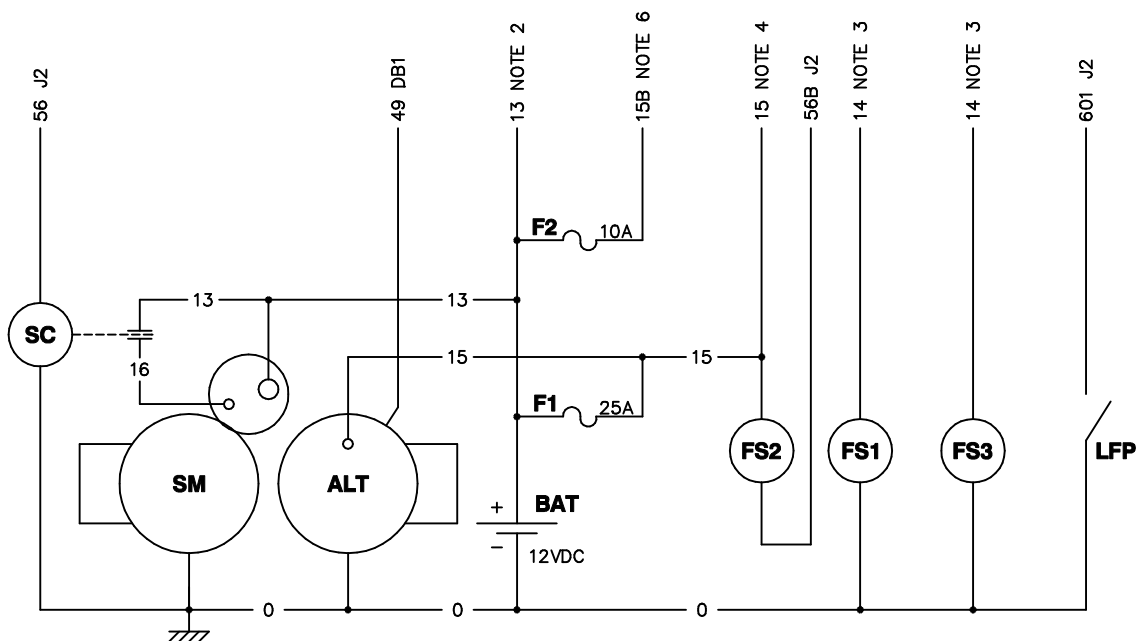
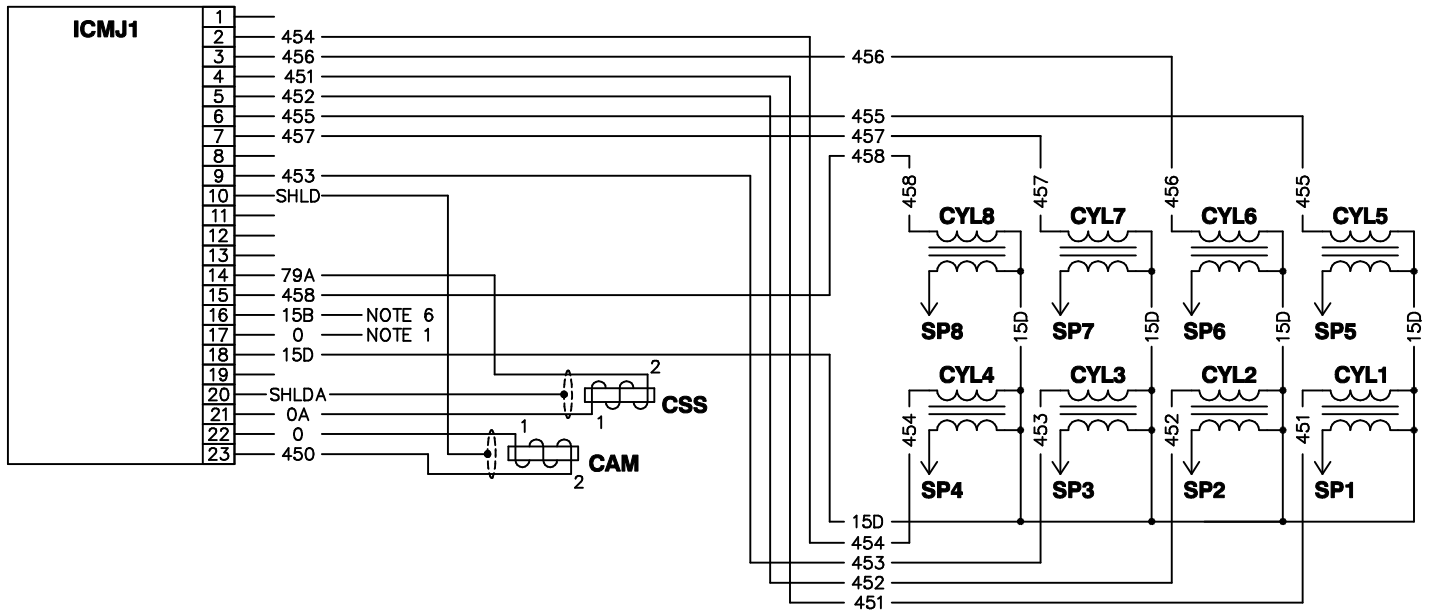


MLCB

CUSTOMER CONNECTIONS

NOTE:
FOR FIELD WIRING TO CUSTOMER CONNECTIONS
(TERMINAL BLOCKS)
MAXIMUM WIRE SIZE: #12 AWG





BWR CONNECTOR

PIN	WIRE	TO	FUNCTION
1	820	J1-12	+5V POWER FOR BASIC REMOTE
2	817	J1-4	REMOTE DISPLAY SYSTEM READY
3	818	J1-5	REMOTE DISPLAY ALARM
4	819	J1-17	REMOTE DISPLAY MAINTENANCE
5	0	GND	NOTE 1

ICMJ1 CONNECTOR

PIN	WIRE	TO	FUNCTION
2	454	CYL4	IGNITION COIL DRIVE 4
3	456	CYL6	IGNITION COIL DRIVE 6
4	451	CYL1	IGNITION COIL DRIVE 1
5	452	CYL2	IGNITION COIL DRIVE 2
6	455	CYL5	IGNITION COIL DRIVE 5
7	457	CYL7	IGNITION COIL DRIVE 7
9	453	CYL3	IGNITION COIL DRIVE 3
10	SHLD	CUT	CAMSHAFT SENSOR DRAIN
14	79A	CSS-2	CRANKSHAFT SENSOR +
15	458	CYL8	IGNITION COIL DRIVE 8
16	15B	F2	NOTE 6
17	0	GND	NOTE 1
18	15D	CYL1-CYL6	NOTE 7
20	SHLDA	CUT	CRANKSHAFT SENSOR DRAIN
21	0A	CSS-1	CRANKSHAFT SENSOR -
22	0	CAM-1	CAMSHAFT SENSOR -
23	450	CAM-2	CAMSHAFT SENSOR +

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 FOR GENERAL USE.
- 5) WIRE #15A IS FUSED +12VDC FOR THE AIR/FUEL SOLENOID OPTION.
- 6) WIRE #15B IS FUSED +12VDC FOR THE IGNITION CONTROL MODULE.
- 7) WIRE #15D IS FUSED +12VDC FOR THE IGNITION COILS.

EC CONNECTOR

PIN	WIRE	TO	FUNCTION
1	0	GND	NOTE 1
2	14	J2-8	NOTE 3
3	15A	J2-23	NOTE 5
4	808	J2-2	AIR/FUEL RATIO SOLENOID DRIVER
5	805	J1-35	OXYGEN SENSOR RETURN
6	804	J1-34	OXYGEN SENSOR +

ICMJ2 CONNECTOR

PIN	WIRE	TO	FUNCTION
1	743	J1-29	CAN BUS HIGH
2	SHLDC	J1-27	CAN BUS DRAIN
5	744	J1-28	CAN BUS LOW

ENGINE CONTROL MODULE CONNECTIONS**J1**

PIN	WIRE	TO	FUNCTION
1	178	CUST CON	REMOTE START RETURN
4	817	BWR-2	REMOTE DISPLAY SYSTEM READY
5	818	BWR-3	REMOTE DISPLAY ALARM
6	15	F1	NOTE 4
7	15	F1	NOTE 4
8	0	GND	NOTE 1
9	0	GND	NOTE 1
10	0	MP1-2	FLYWHEEL SENSOR -
12	820	BWR-1	+5V POWER FOR BASIC REMOTE
13	SA	MLCB	OUTPUT VOLTAGE SENSING A
14	183	CUST CON	REMOTE START
16	SHLD	MP1-1	FLYWHEEL SENSOR DRAIN
17	819	BWR-4	REMOTE DISPLAY MAINTENANCE
18	767	GOV-2	THROTTLE POSITION FEEDBACK RETURN
19	765	GOV-3	THROTTLE POSITION FEEDBACK SOURCE
20	766	GOV-6	THROTTLE POSITION FEEDBACK SIGNAL
21	68	WTS-2	COOLANT TEMP SIGNAL
23	79	MP1-3	FLYWHEEL SENSOR +
24	SB	MLCB	OUTPUT VOLTAGE SENSING B
25	N1	CUST CON	UTILITY VOLTAGE SENSING 1
26	N2	CUST CON	UTILITY VOLTAGE SENSING 2
27	SHLDC	ICMJ2-2	CAN BUS DRAIN
28	744	ICMJ2-5	CAN BUS LOW
29	743	ICMJ2-1	CAN BUS HIGH
31	573A	WLS-A	COOLANT LEVEL SIGNAL RETURN
32	573	WLS-B	COOLANT LEVEL SIGNAL
33	86	LOS-NC	LOW OIL PRESSURE SIGNAL
34	804	EC-6	OXYGEN SENSOR +
35	805	EC-5	OXYGEN SENSOR RETURN

J2

PIN	WIRE	TO	FUNCTION
1	770	GOV-4	THROTTLE DRIVE HI
2	808	EC-4	AIR/FUEL RATIO SOLENOID DRIVER
3	56B	FS2	STARTING FUEL SOLENOID CONTROL
8	14	DB1/FS/EC-2	NOTE 3
9	771	GOV-1	THROTTLE DRIVE LO
11	209	CAR	COMMON ALARM RELAY
12	23	CUST CON	TRANSFER RELAY COIL CONTROL
13	194	CUST CON	TRANSFER RELAY COIL +
14	601	LFP	LOW FUEL PRESSURE
15	210	CAR	COMMON ALARM RELAY
16	6	DPE	EXCITER RETURN
17	162	CB	EXCITER OUTPUT (BREAKER PROTECTED)
18	4	FIELD	FIELD (BRUSH) +
19	1	FIELD	FIELD (BRUSH) -
20	T1	CUST CON	120VAC SOURCE FOR BATTERY CHARGER
21	NEU	CUST CON	120VAC RETURN FOR BATTERY CHARGER
22	56	SC	STARTER CONTACTOR DRIVER
23	15A	EC-3	NOTE 5

LEGEND

00 - NEUTRAL
 AFS - AIR/FUEL SOLENOID
 ALT - DC CHARGE ALTERNATOR
 BAT - BATTERY
 BWR - BASIC WIRELESS RECEPTACLE
 CAM - CAMSHAFT SENSOR
 CAR - COMMON ALARM RELAY
 CB - CIRCUIT BREAKER
 CSS - CRANKSHAFT SENSOR
 CYL_ - CYLINDER IGNITION COIL
 DB_ - DIODE BRIDGE

DPE - EXCITER
 EC - EMISSIONS CONNECTOR
 F_ - FUSE INLINE
 FS_ - FUEL SOLENOID
 GOV - ELECTRONIC GOVERNOR ACTUATOR
 ICM_ - IGNITION CONTROL MODULE
 J_ - ENGINE CONTROL MODULE CONNECTOR
 LFP - LOW FUEL PRESSURE SWITCH
 LOS - LOW OIL PRESSURE SWITCH
 MLCB - MAIN LINE CIRCUIT BREAKER
 MOV - METAL OXIDE VARISTOR

MP1 - MAGNETIC PICKUP
 OS - OXYGEN SENDER
 R1 - RESISTOR
 SC - STARTER CONTACTOR
 SHLD - SHIELD
 SM - STARTER MOTOR
 SP_ - SPARK PLUG
 WLS - COOLANT LEVEL SENDER
 WTS - COOLANT TEMPERATURE SENDER