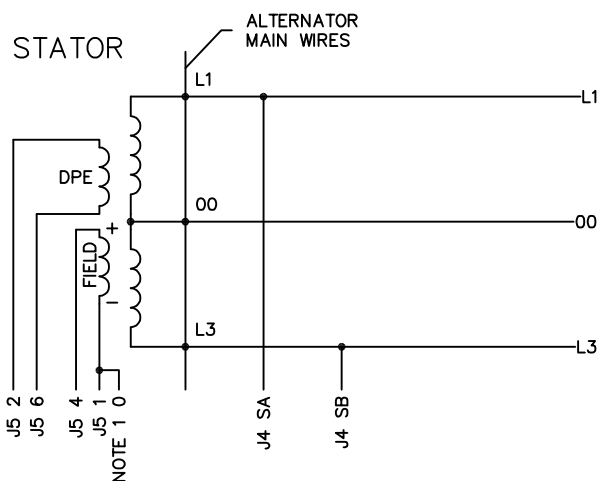


LEGEND

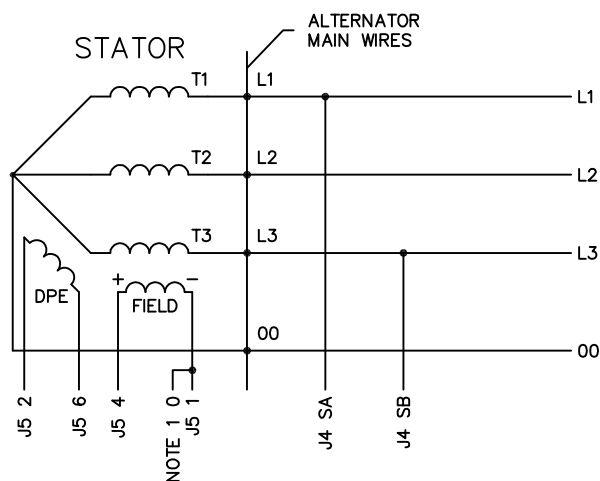
AFS - AIR/FUEL SOLENOID
 ALT - DC CHARGE ALTERNATOR
 BAT - BATTERY
 CAM - CAMSHAFT SENSOR
 CSS - CRANKSHAFT SENSOR
 CYL - CYLINDER IGNITION COIL
 DB - DIODE BRIDGE
 DPE - EXCITER
 EC - EMISSIONS CONNECTOR

ES - EMERGENCY STOP
 F - FUSE INLINE
 FS - FUEL SOLENOID
 GA - 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

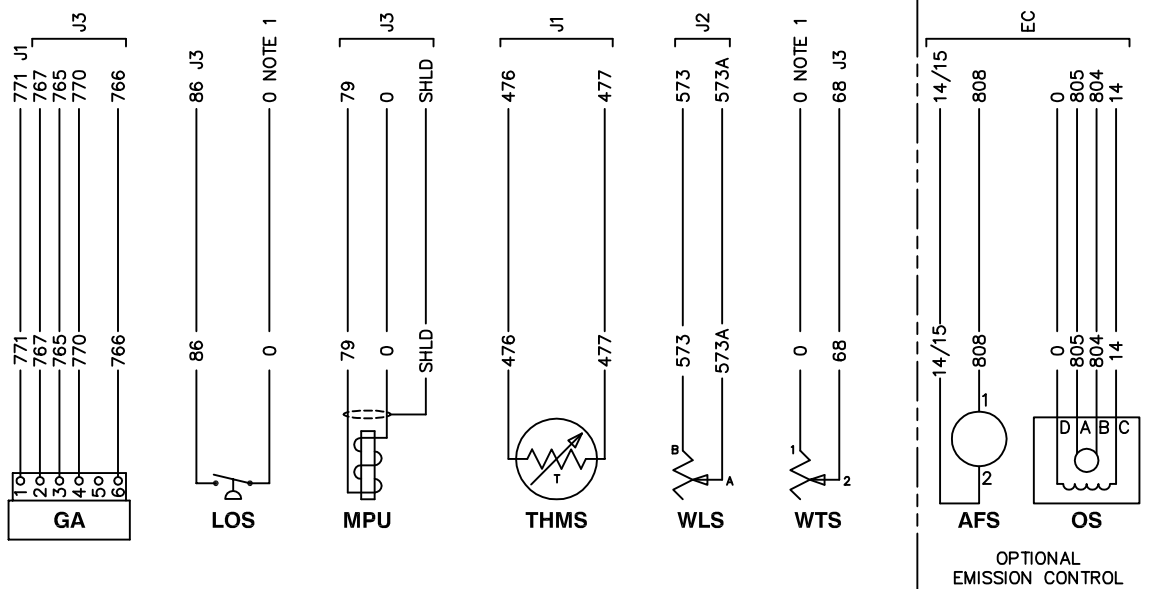
MPU - MAGNETIC PICKUP
 OS - OXYGEN SENDER
 SC - STARTER CONTACTOR
 SM - STARTER MOTOR
 SP - SPARK PLUG
 THMS - THERMISTOR (BATTERY AMBIENT TEMP.)
 WLS - COOLANT LEVEL SENDER
 WTS - COOLANT TEMPERATURE SENDER

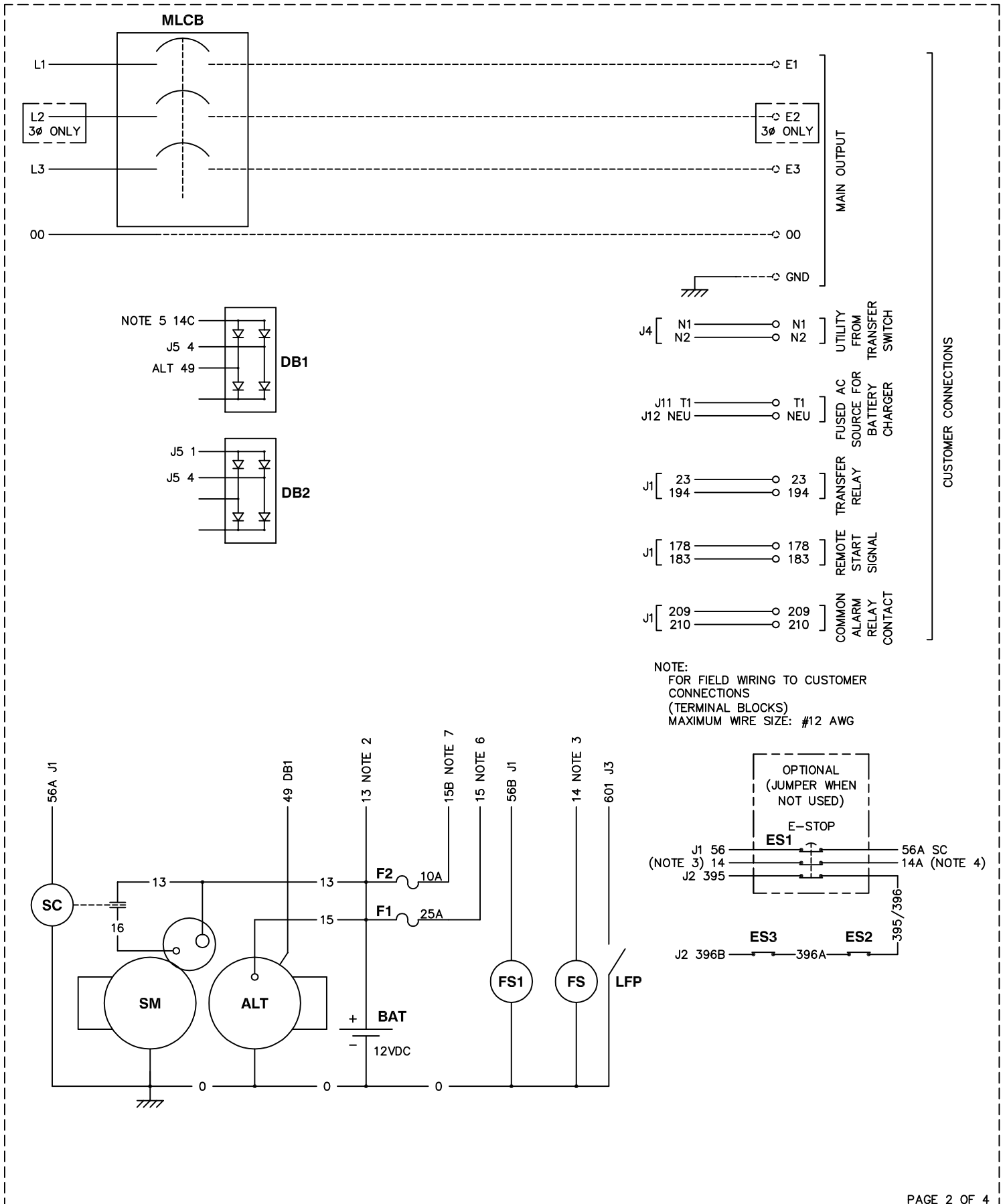


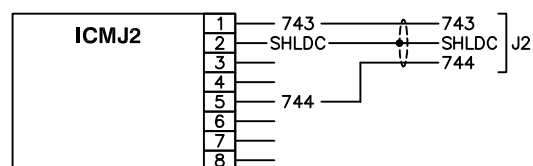
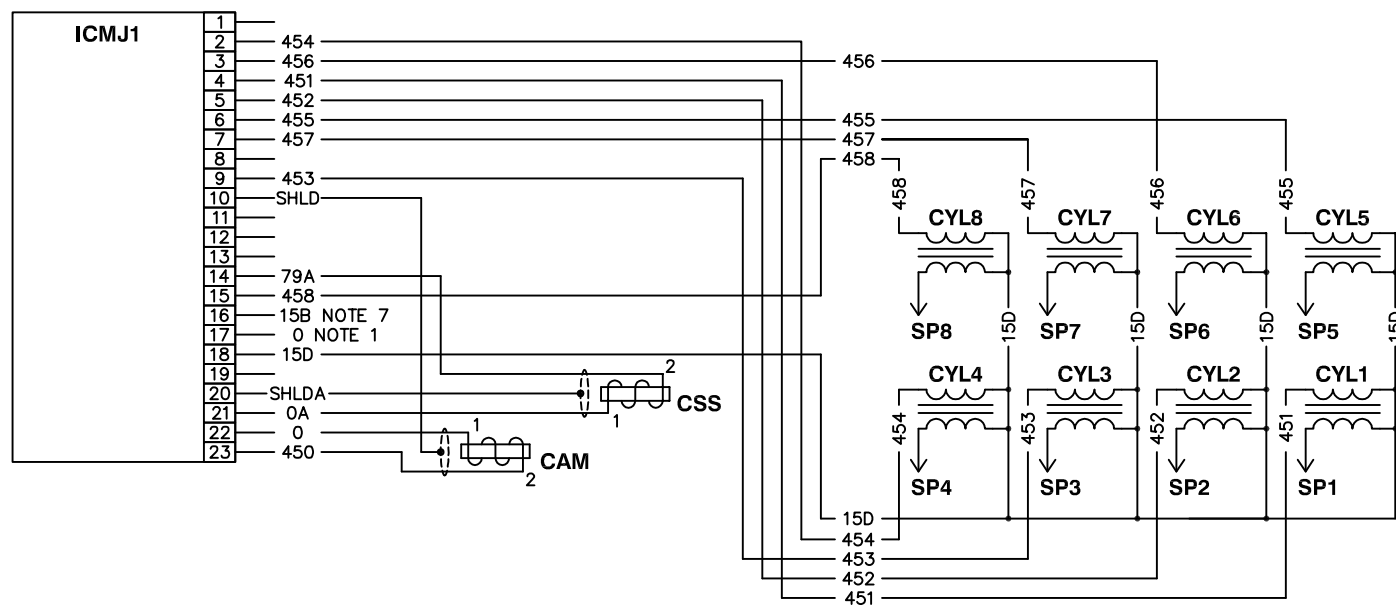
ALTERNATOR CONNECTIONS FOR 1 ϕ UNITS



ALTERNATOR CONNECTIONS FOR 3 ϕ UNITS







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 7
17	0	GND	NOTE 1
18	15D	CYL1-CYL6	NOTE 8
20	SHLDA	CUT	CRANKSHAFT SENSOR DRAIN
21	0A	CSS-1	CRANKSHAFT SENSOR -
22	0	CAM-1	CAMSHAFT SENSOR -
23	450	CAM-2	CAMSHAFT SENSOR +

ICMJ2 CONNECTOR

PIN	WIRE	TO	FUNCTION
1	743	J2-11	CAN BUS HIGH
2	SHLDC	J2-6	CAN BUS DRAIN
5	744	J2-12	CAN BUS LOW

MAIN CONTROLLER CONNECTIONS**J1**

PIN	WIRE	TO	FUNCTION
1	15	F1	NOTE 6
2	15	F1	NOTE 6
3	56/56A	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	209/210	CAR	COMMON ALARM RELAY
9	14/14A	ES1	NOTE 3/NOTE 4
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	209/210	CAR	COMMON ALARM RELAY
16	56B	FS1	STARTING FUEL SOLENOID CONTROL

J2

PIN	WIRE	TO	FUNCTION
1	808	EC-4	AIR/FUEL RATIO SOLENOID DRIVER
4	396B	ES3-1	EMERGENCY STOP
6	SHLDC	ICMJ2-2	CAN BUS DRAIN
8	395/396	ES1	EMERGENCY STOP
9	573	WLS-B	COOLANT LEVEL SIGNAL
10	573A	WLS-A	COOLANT LEVEL SIGNAL RETURN
11	743	ICMJ2-1	CAN BUS HIGH
12	744	ICMJ2-5	CAN BUS LOW

J3

PIN	WIRE	TO	FUNCTION
1	SHLD	MPU-1	FLYWHEEL SENSOR DRAIN
4	0	GND	NOTE 1
5	601	LFP	LOW FUEL PRESSURE
6	68	WTS-2	COOLANT TEMPERATURE 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	FLYWHEEL SENSOR +
11	0	MPU-2	FLYWHEEL SENSOR -
15	86	LOS-NC	LOW OIL PRESSURE SIGNAL
16	804	EC-6	OXYGEN SENSOR +
17	805	EC-5	OXYGEN SENSOR RETURN
18	767	GA-2	THROTTLE POSITION FEEDBACK RETURN

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 #14A IS LOW CURRENT FUSED +12VDC WHEN GENERATOR IS CRANKING OR RUNNING AND E-STOP IS NOT ACTIVATED.
- 5) WIRE #14C IS HIGH CURRENT FUSED +12VDC WHEN GENERATOR IS CRANKING OR RUNNING AND E-STOP IS NOT ACTIVATED (FUSED WIRE #15 & SWITCHED WIRE #14A).
- 6) WIRE #15 IS FUSED +12VDC FOR GENERAL USE.
- 7) WIRE #15B IS FUSED +12VDC FOR THE IGNITION CONTROL MODULE.
- 8) WIRE #15D IS FUSED +12VDC FOR THE IGNITION COILS.

EC CONNECTOR

PIN	WIRE	TO	FUNCTION
1	0	GND	NOTE 1
2	14A	J1-9	NOTE 4
3	14A	J1-9	NOTE 4
4	808	J2-1	AIR/FUEL RATIO SOLENOID DRIVER
5	805	J3-17	OXYGEN SENSOR RETURN
6	804	J3-16	OXYGEN SENSOR +

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) +