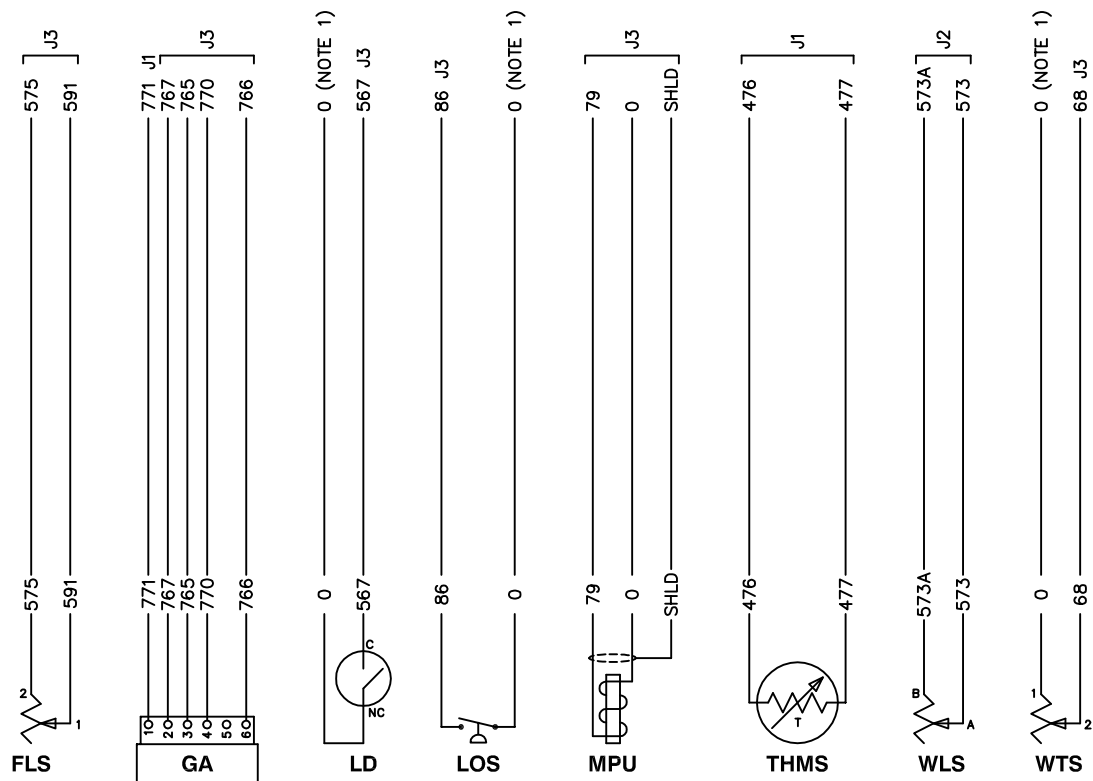
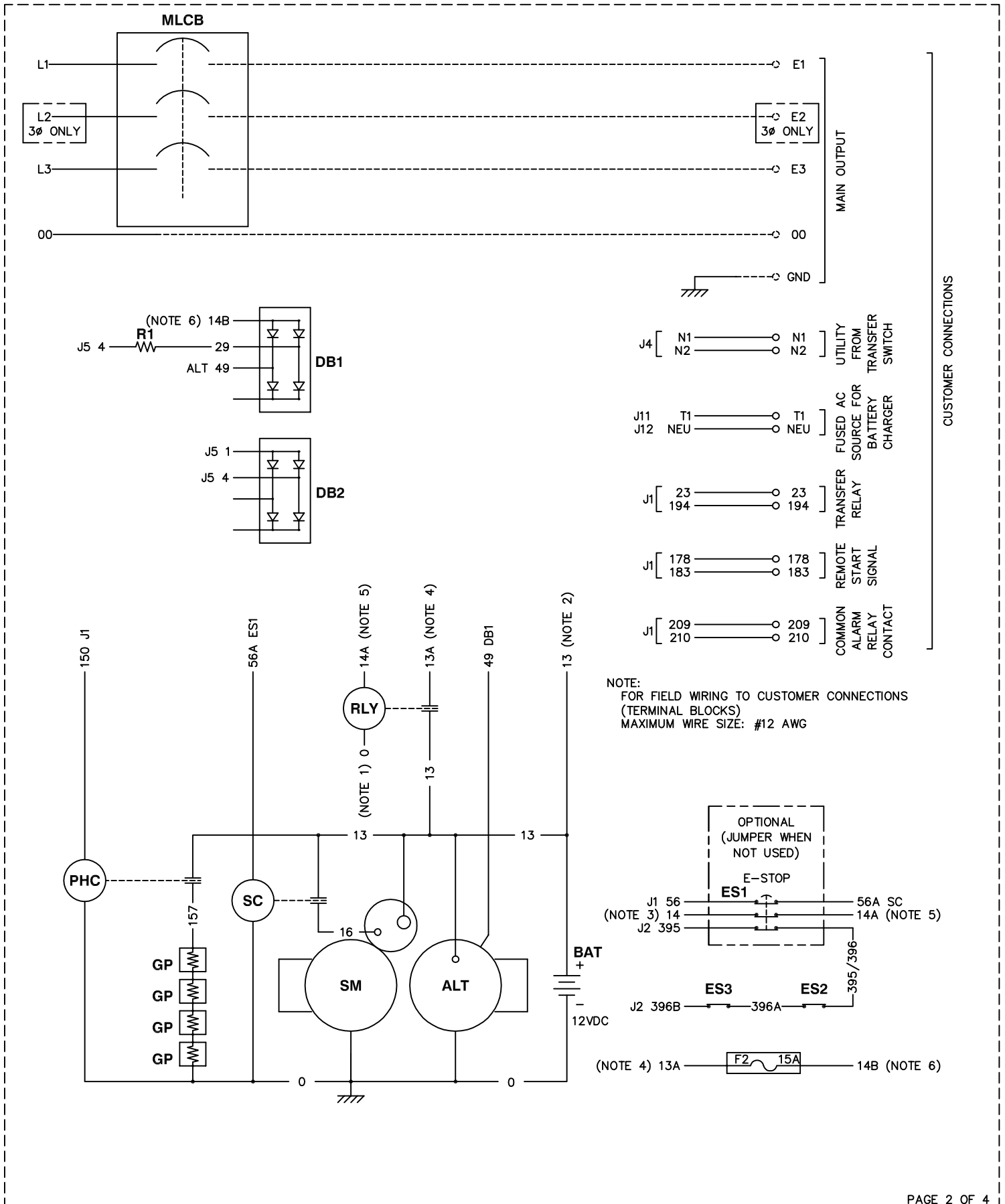


LEGEND			
ALT - DC CHARGE ALTERNATOR	FLS - FUEL LEVEL SENDER	MLCB - MAIN LINE CIRCUIT BREAKER	SM - STARTER MOTOR
BAT - BATTERY	GA - GOVERNOR ACTUATOR	MPU - MAGNETIC PICKUP	THMS - THERMISTOR
DB - DIODE BRIDGE	GP - GLOW PLUG	PHC - PREHEAT CONTACTOR	WLS - COOLANT LEVEL SENSOR
DPE - EXCITER	J - MAIN CONTROLLER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





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	56/56A	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
9	14/14A	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	209/210	CAR	COMMON ALARM
16	150	PHC	PREHEAT

J2

PIN	WIRE	TO	FUNCTION
4	396B	ES3	E-STOP RETURN
6	SHLD*	EGC (CUT)	CAN COMMUNICATION SHIELD
8	395/396	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 D2.5L & D3.3L, USED ON D2.2L ONLY.

J3

PIN	WIRE	TO	FUNCTION
1	SHLD	MPU-1	MAG PICKUP 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	MAG PICKUP SIGNAL (+)
11	0	MPU-2	MAG PICKUP SIGNAL (-)
13	567	LD	LEAK DETECTOR
14	575	FLS-2	FUEL LEVEL +
15	86	LOS-NC	LOW OIL PRESSURE SIGNAL
18	767	GA-2	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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