

COLOR KEY			
RED	POSITIVE	LT. GRAY	PLUGGED/UNUSED
BLACK	GROUND	GRAY	BUILD DIMENSION
GREEN	INPUT	PURPLE	DIMENSION REFERENCE
BLUE	OUTPUT	ORANGE	OPTIONS
LT. BLUE	CAN-BUS/J-1939	BROWN	PART NUMBERS

PROPRIETARY DATA OF LOR MOBILE CONTROLS. IT IS NOT TO BE DISCUSSED OR USED FOR ANY PURPOSE OR CONVEYED TO OTHERS WITHOUT THE SPECIFIC AUTHORIZATION OF LOR MOBILE CONTROLS.  
**ALL GROUNDS MUST GO TO BATTERY GROUND**  
**ALL POSITIVES MUST GO TO BATTERY POSITIVE**

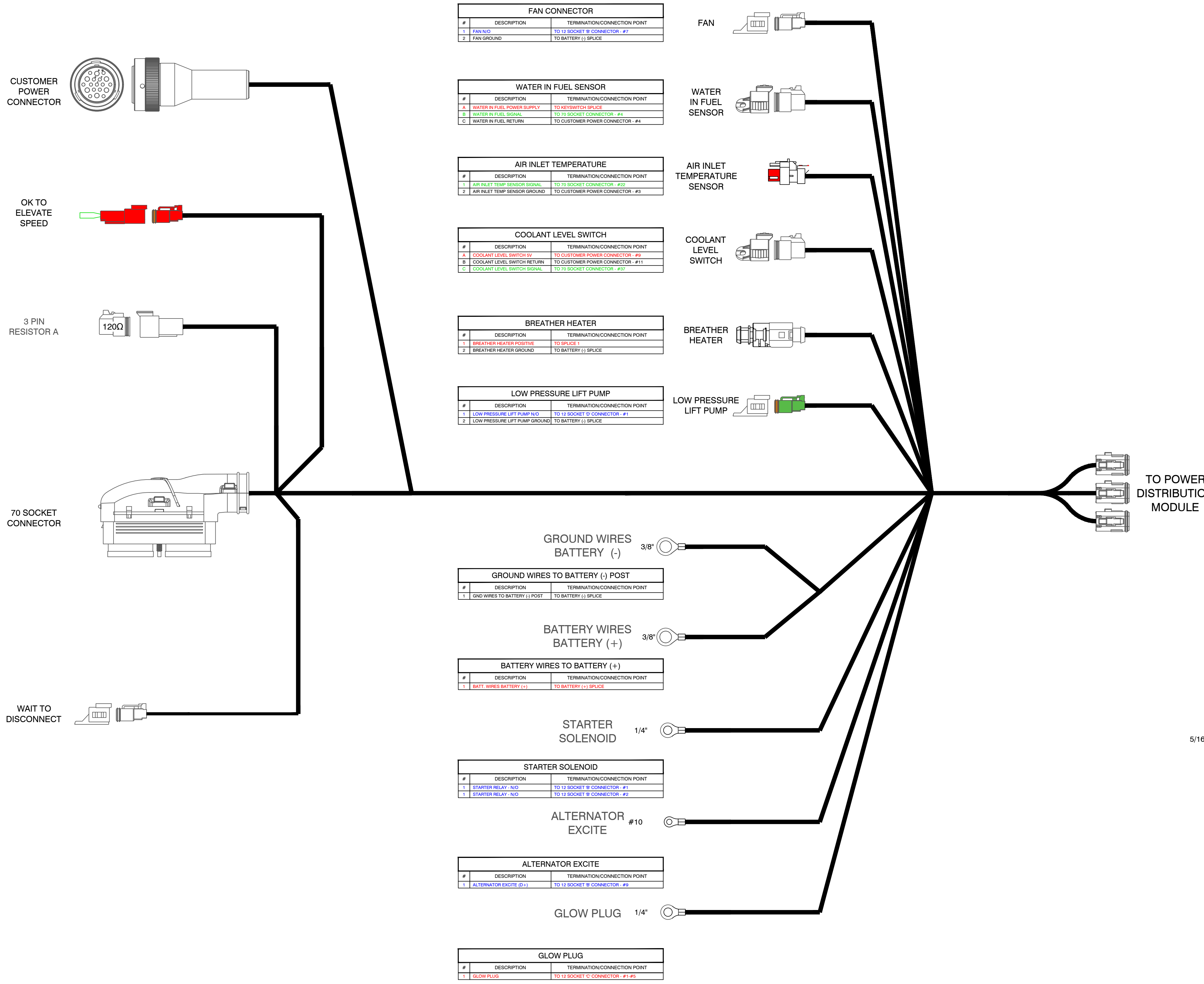
CUSTOMER POWER CONNECTOR		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
3	AIR INLET TEMP SENSOR GROUND	TO AIR INLET TEMPERATURE SENSOR - #2
4	ANALOGUE RETURN	TO ANALOGUE RETURN 2 SPLICE
8	BATTERY POSITIVE (+)	TO 12 SOCKET D' CONNECTOR - #2
9	DIY (W/RES)	TO COOLANT LEVEL SWITCH - #8
10	BATTERY POSITIVE (+)	TO 12 SOCKET D' CONNECTOR - #11
11	ANALOGUE RETURN	TO COOLANT LEVEL SWITCH - B
12	BATTERY NEGATIVE (-)	TO BATTERY (-) SPLICE
13	MAIN POWER RELAY COIL (-)	TO 12 SOCKET B' CONNECTOR - #12
14	BATTERY NEGATIVE (-)	TO BATTERY (-) SPLICE
15	KEYSWITCH	TO 12 SWITCH SPLICE
16	BATTERY NEGATIVE (-)	TO BATTERY (-) SPLICE
18	BATTERY POSITIVE (+)	TO 12 SOCKET D' CONNECTOR - #12

OK TO ELEVATE SPEED		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	OK TO ELEVATE SPEED RETURN	TO ANALOGUE RETURN 2 SPLICE
2	SWITCH INPUT RETURN	TO 12 SOCKET C' CONNECTOR - #56
3	SWITCH INPUT RETURN	TO CAN A W/RES

3 PIN RESISTOR A		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	CAN A (+)	SPLICED TO YELLOW WIRE ON CAN A CABLE
2	CAN A (+)	SPLICED TO GREEN WIRE ON CAN A CABLE

70 SOCKET CONNECTOR		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	WATER IN FUEL SIGNAL	TO WATER IN FUEL - B
2	LOW PRESSURE LIFT PUMP COIL (-)	TO 12 SOCKET B' CONNECTOR - #3
3	GLOW PLUG RELAY COIL (-)	TO 12 SOCKET B' CONNECTOR - #13
4	AIR INLET TEMP SENSOR SIGNAL	TO AIR INLET TEMPERATURE SENSOR - #1
5	CAN A (+)	TO 12 SOCKET B' CONNECTOR - #7
6	CAN A (+)	TO 12 SOCKET B' CONNECTOR - #5
7	COOLANT LEVEL SWITCH SIGNAL	TO COOLANT LEVEL SWITCH - C
8	REMOTE SHUTDOWN	TO 12 SOCKET D' CONNECTOR - #3
9	STARTER CONTROL REQUEST	TO 12 SOCKET D' CONNECTOR - #2
10	SWITCH INPUT RETURN	TO OK TO ELEVATE SPEED 2 SOCKET - #2
11	STARTER CONTROL RELAY COIL (+)	TO 12 SOCKET D' CONNECTOR - #4
12	STARTER CONTROL RELAY COIL (-)	TO 12 SOCKET D' CONNECTOR - #5
13	FAN COIL (-)	TO 12 SOCKET B' CONNECTOR - #10

WAIT TO DISCONNECT		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	WAIT TO DISCONNECT (+)	TO SPLICE
2	WAIT TO DISCONNECT (-)	TO CAN A SHIELD/WTD SPLICE



FAN CONNECTOR		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	FAN NO	TO 12 SOCKET B' CONNECTOR - #7
2	FAN GROUND	TO BATTERY (-) SPLICE

WATER IN FUEL SENSOR		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
A	WATER IN FUEL POWER SUPPLY	TO KEYSWITCH SPLICE
B	WATER IN FUEL SIGNAL	TO 70 SOCKET CONNECTOR - #4
C	WATER IN FUEL RETURN	TO CUSTOMER POWER CONNECTOR - #4

AIR INLET TEMPERATURE		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	AIR INLET TEMP SENSOR SIGNAL	TO 70 SOCKET CONNECTOR - #22
2	AIR INLET TEMP SENSOR GROUND	TO CUSTOMER POWER CONNECTOR - #3

COOLANT LEVEL SWITCH		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
A	COOLANT LEVEL SWITCH SW	TO CUSTOMER POWER CONNECTOR - #9
B	COOLANT LEVEL SWITCH RETURN	TO CUSTOMER POWER CONNECTOR - #11
C	COOLANT LEVEL SWITCH SIGNAL	TO 70 SOCKET CONNECTOR - #27

BREATHER HEATER		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	BREATHER HEATER POSITIVE	TO SPLICE
2	BREATHER HEATER GROUND	TO BATTERY (-) SPLICE

LOW PRESSURE LIFT PUMP		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	LOW PRESSURE LIFT PUMP NO	TO 12 SOCKET B' CONNECTOR - #1
2	LOW PRESSURE LIFT PUMP GROUND	TO BATTERY (-) SPLICE

GROUND WIRES TO BATTERY (-) POST		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	GND WIRES TO BATTERY (-) POST	TO BATTERY (-) SPLICE

BATTERY WIRES TO BATTERY (+)		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	BATT WIRES BATTERY (+)	TO BATTERY (+) SPLICE

STARTER SOLENOID		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	STARTER RELAY - NO	TO 12 SOCKET B' CONNECTOR - #1
1	STARTER RELAY - NO	TO 12 SOCKET B' CONNECTOR - #3

ALTERNATOR EXCITE		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	ALTERNATOR EXCITE (+)	TO 12 SOCKET B' CONNECTOR - #2

GLOW PLUG		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	GLOW PLUG	TO 12 SOCKET C' CONNECTOR - #1 #6

12 SOCKET - CUSTOMER CONNECTOR		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	REMOTE ENGINE SHUTDOWN	
2	SW. COMMON FROM ECM	
3	STARTER REQUEST	
4	12VDC CAN HIGH	
5	12VDC CAN LOW	
9	CAN SHIELD	
10	KEYSWITCH INPUT	
11	CONSTANT VOLTAGE SUPPLY	
12	GROUND	

12 SOCKET 'C' KEY CONNECTOR (GREEN) - POWER		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	GLOW PLUG	TO GLOW PLUG SPLICE
2	GLOW PLUG	TO GLOW PLUG SPLICE
3	GLOW PLUG	TO GLOW PLUG SPLICE
4	GLOW PLUG	TO GLOW PLUG SPLICE
5	GLOW PLUG	TO GLOW PLUG SPLICE
6	BATTERY (-)	TO BATTERY (-) SPLICE
7	BATTERY (+)	TO BATTERY (+) SPLICE
8	BATTERY (+)	TO BATTERY (+) SPLICE
9	BATTERY (+)	TO BATTERY (+) SPLICE
10	BATTERY (+)	TO BATTERY (+) SPLICE
11	BATTERY (+)	TO BATTERY (+) SPLICE
12	BATTERY (+)	TO BATTERY (+) SPLICE

12 SOCKET 'D' KEY CONNECTOR (BROWN) - ENGINE		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	LOW PRESSURE LIFT PUMP NO	TO LOW PRESSURE LIFT PUMP - #1
2	BATTERY POSITIVE (+)	TO CUSTOMER POWER CONNECTOR - #6
3	REMOTE SHUTDOWN	TO 12 SOCKET CONNECTOR - #44
4	STARTER CONTROL RELAY COIL (+)	TO 12 SOCKET CONNECTOR - #81
5	STARTER CONTROL RELAY COIL (-)	TO 12 SOCKET CONNECTOR - #82
6	CAN A (+)	TO 12 SOCKET CONNECTOR - #62
7	CAN A (+)	TO 12 SOCKET CONNECTOR - #62
8	STARTER CONTROL REQUEST	TO 12 SOCKET CONNECTOR - #46
9	BREATHER (+) / WTD (+)	TO SPLICE 1
10	REMOTE SHUTDOWN RETURN	TO ANALOGUE RETURN 2 SPLICE
11	BATTERY POSITIVE (+)	TO CUSTOMER POWER CONNECTOR - #10
12	BATTERY POSITIVE (+)	TO CUSTOMER POWER CONNECTOR - #18

12 SOCKET 'B' KEY CONNECTOR (BLACK) - ENGINE		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	STARTER RELAY - NO	TO STARTER SOLENOID 1/4" RING TERMINAL
2	STARTER RELAY - NO	TO STARTER SOLENOID 1/4" RING TERMINAL
3	LOW PRESSURE LIFT PUMP COIL (-)	TO 12 SOCKET CONNECTOR - #7
4	KEYSWITCH	TO KEYSWITCH SPLICE
7	FAN NO	TO FAN - #1
10	ALTERNATOR EXCITE (+)	TO ALTERNATOR EXCITE RING TERMINAL
10	FAN COIL (-)	TO 70 SOCKET CONNECTOR - #10
11	GLOW PLUG RELAY COIL (+)	TO 12 SOCKET CONNECTOR - #6
12	MAIN POWER RELAY COIL (-)	TO CUSTOMER POWER CONNECTOR - #13

BATTERY CABLE - STARTER B+ TO ALTERNATOR B+		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
10	STARTER TO ALT BATTERY (+)	3/16" RING TERMINAL TO 1/4" RING TERMINAL

