



P/N: 7341

DRAWN BY: B. DELORENZO

DATE: 06-04-2020

REVISED BY:

DATE:

DESCRIPTION: POWER DISTRIBUTION KIT FOR C7.1
12V LRC

NOTES:

COLOR KEY

RED

BLACK

GREEN

BLUE

LT. BLUE

POSITIVE

GROUND

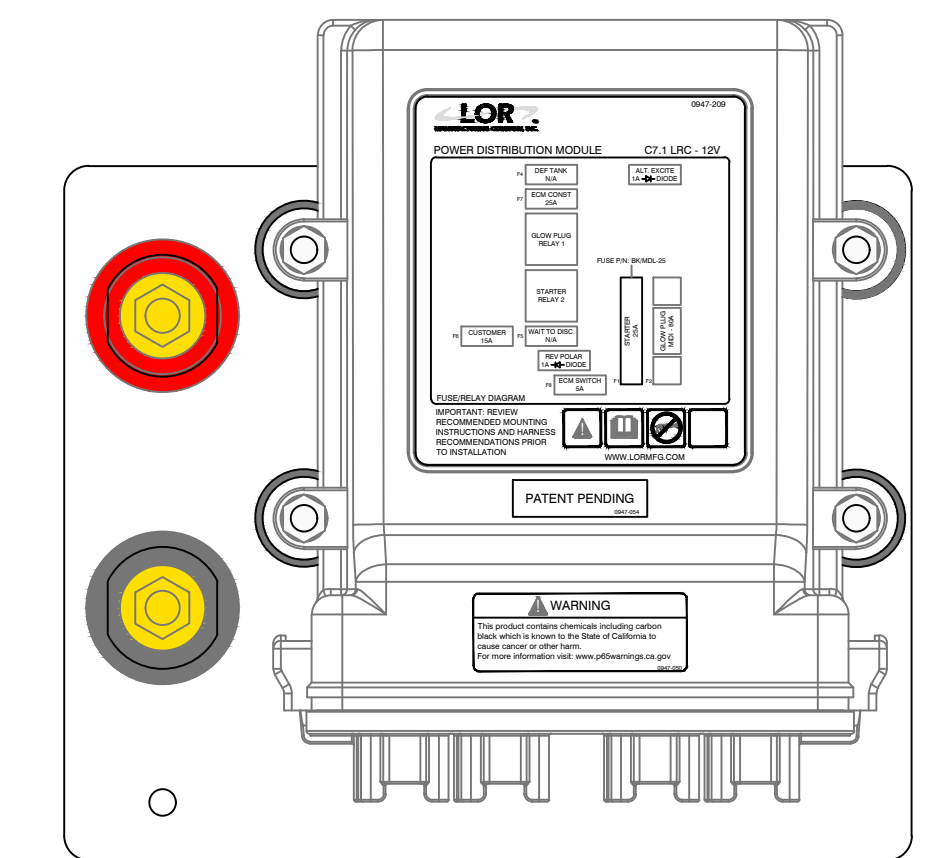
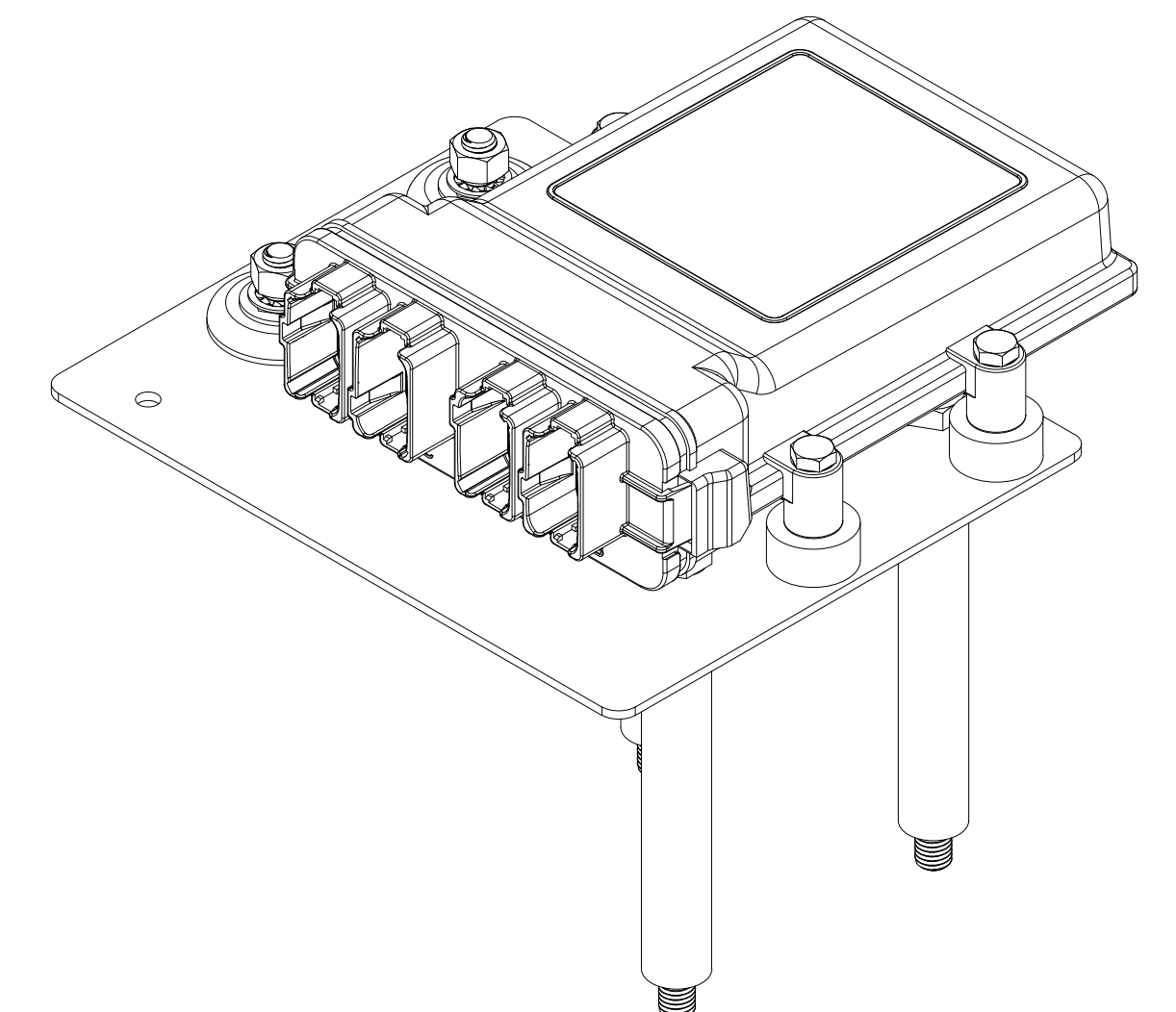
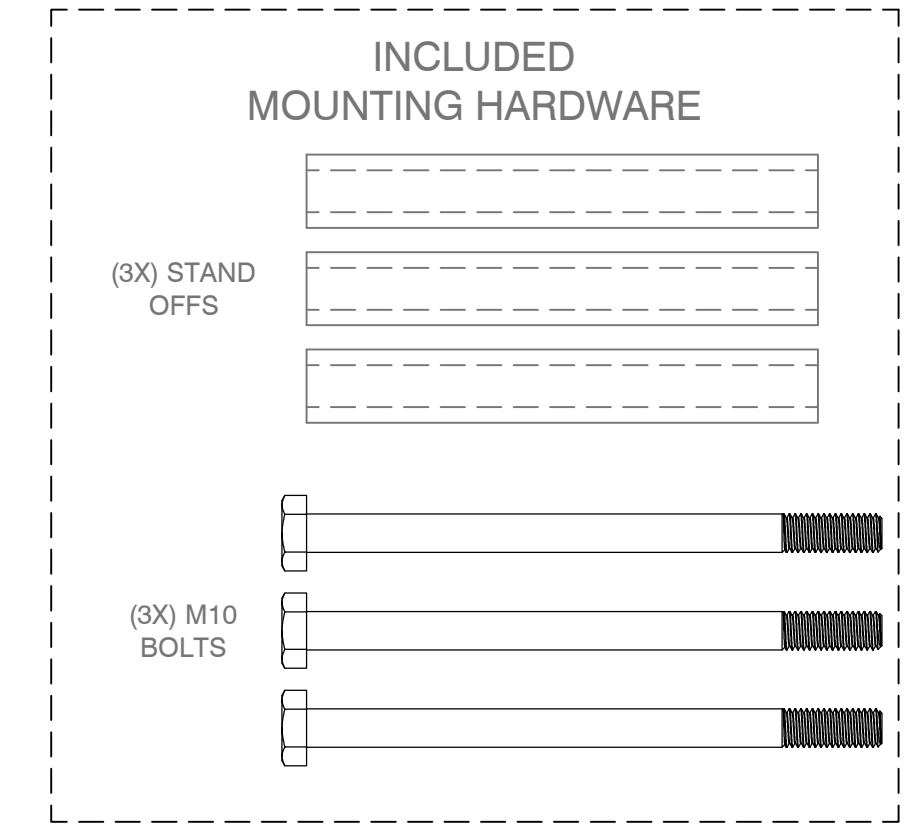
INPUT

OUTPUT

CAN-BUS/J-1939

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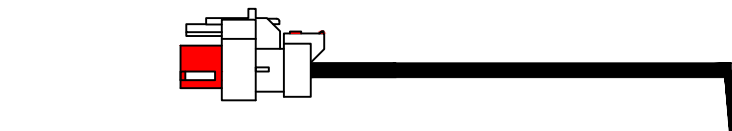
ALL GROUNDS MUST GO TO BATTERY GROUND
ALL POSITIVES MUST GO TO BATTERY POSITIVE



CUSTOMER CONNECTOR
HARNESS CONNECTORS

WATER IN FUEL CONNECTOR

#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	WF SENSOR SIGNAL	TO #4 SOCKET CONNECTOR - #44
2	WF SENSOR SUPPLY (+8V)	TO #7 SPlice
3	SENSOR RETURN	TO SENSOR RETURN SPlice



COOLANT LEVEL SENSOR

#	DESCRIPTION	TERMINATION/CONNECTION POINT
A	ANALOG SENSOR POWER (+8V)	TO #7 SPlice
B	ANALOG SENSOR RETURN	TO SENSOR RETURN SPlice
C	COOLANT LEVEL SENSOR	TO #4 SOCKET CONNECTOR - #47



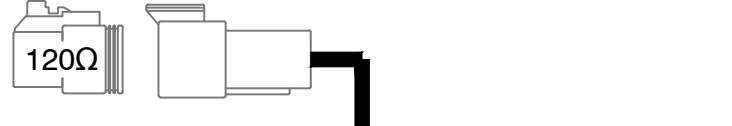
GLOW PLUG
1/4" RING TERMINAL

#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	GLOW PLUG	TO GLOW PLUG SPlice



3 PIN RESISTOR

#	DESCRIPTION	TERMINATION/CONNECTION POINT
A	CAN A (+)	SPliced TO YELLOW WIRE ON J1939 CABLE
B	CAN B (-)	SPliced TO GREEN WIRE ON J1939 CABLE



#	DESCRIPTION	TERMINATION/CONNECTION POINT
7	CONSTANT VOLTAGE TO ECM	TO CONSTANT VDC SPlice
8	CONSTANT VOLTAGE TO ECM	TO CONSTANT VDC SPlice
15	CONSTANT VOLTAGE TO ECM	TO CONSTANT VDC SPlice
16	CONSTANT VOLTAGE TO ECM	TO CONSTANT VDC SPlice
1	GROUND	TO BATTERY (-) SPlice
2	GROUND	TO BATTERY (-) SPlice
3	GROUND	TO BATTERY (-) SPlice
6	GROUND	TO BATTERY (-) SPlice
10	GROUND	TO BATTERY (-) SPlice
22	J1939 SHIELD	TO J1939 SHIELD SPlice
30	J1939 (+)	TO 12 SOCKET 'B' CONNECTOR - #1 (100 Ω 3PIN AL)
31	J1939 (-)	TO 12 SOCKET 'B' CONNECTOR - #9 (100 Ω 3PIN BL)
32	CAT DATA LINK (+)	TO 12 SOCKET 'B' CONNECTOR - #6
33	CAT DATA LINK (-)	TO 12 SOCKET 'B' CONNECTOR - #10
33	PWM SENSOR RETURN	TO SENSOR RETURN SPlice
35	SWITCH RETURN	TO SWITCH RETURN SPlice
36	INTERMEDIATE ENGINE SPEED SW	TO #6 POSITION INTERCONNECT - #6
40	SWITCHED VOLTAGE	TO SWITCHED VOLTAGE SPlice
41	PWM SENSOR SUPPLY (+8V)	TO #7 SPlice
41	WF SENSOR SIGNAL	TO WATER IN FUEL CONNECTOR - #1
47	COOLANT LEVEL SENSOR	TO #4 SOCKET CONNECTOR - C
48	REMOTE SHUTDOWN SWITCH	TO 12 SOCKET 'B' CONNECTOR - #5
49	PTO DISENGAGE (N/C)	TO #8 POSITION INTERCONNECT - #1
50	THROTTLE UP	TO #8 POSITION INTERCONNECT - #2
51	THROTTLE DOWN	TO #8 POSITION INTERCONNECT - #3
52	PTO ON/OFF	TO #8 POSITION INTERCONNECT - #4
53	PWM THROTTLE INPUT	TO #8 POSITION INTERCONNECT - #5
57	GLOW PLUG COIL (+)	TO 12 SOCKET 'B' CONNECTOR - #2
58	CHECK ENGINE LAMP	TO #8 POSITION INTERCONNECT - #1
60	STOP ENGINE LAMP	TO #8 POSITION INTERCONNECT - #2
61	PTO MODE LAMP	TO #8 POSITION INTERCONNECT - #3
62	LOW OIL PSI LAMP	TO #8 POSITION INTERCONNECT - #4
63	WAIT TO START LAMP	TO #8 POSITION INTERCONNECT - #5

ALT EXCITE
#10 RING TERMINAL

#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	ALT EXCITE (D+)	TO 12 SOCKET 'D' CONNECTOR - #11



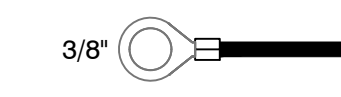
STARTER
1/4" RING TERMINAL

#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	STARTER (+)	TO 12 SOCKET 'D' CONNECTOR - #8
1	STARTER (+)	TO 12 SOCKET 'D' CONNECTOR - #9



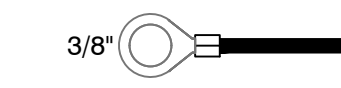
GROUND WIRES
BATTERY (-)

#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	OND WIRES TO BATTERY (-) LUG	TO BATTERY (-) SPlice



BATTERY WIRES
BATTERY (+)

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



TO POWER DISTRIBUTION MODULE

6 POSITION INTERCONNECT

#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	GLOW PLUG COIL (+)	TO SWITCHED VOLTAGE SPlice
2	GLOW PLUG COIL (-)	TO #4 SOCKET CONNECTOR - #57
3	CONSTANT VOLTAGE TO ECM	TO CONSTANT VDC SPlice
4	CONSTANT VOLTAGE TO ECM	TO CONSTANT VDC SPlice
5	REMOTE SHUTDOWN SWITCH	TO #4 SOCKET CONNECTOR - #48
6	J1939 (+)	TO #4 SOCKET CONNECTOR - #21 (100 Ω 3PIN BL)
6	J1939 (-)	TO #4 SOCKET CONNECTOR - #20 (100 Ω 3PIN AL)
8	SWITCH RETURN	TO SWITCH RETURN SPlice
8	CAT DATA LINK (+)	TO #4 SOCKET CONNECTOR - #20
8	CAT DATA LINK (-)	TO #4 SOCKET CONNECTOR - #24

8 POSITION INTERCONNECT

#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	PTO DISENGAGE (N/C)	TO #4 SOCKET CONNECTOR - #49
2	THROTTLE UP	TO #4 SOCKET CONNECTOR - #50
3	THROTTLE DOWN	TO #4 SOCKET CONNECTOR - #51
4	PTO ON/OFF	TO #4 SOCKET CONNECTOR - #52
5	PWM THROTTLE INPUT	TO #4 SOCKET CONNECTOR - #53
6	SWITCH RETURN	TO SWITCH RETURN SPlice
7	PWM SENSOR SUPPLY (+8V)	TO #7 SPlice
8	PWM SENSOR RETURN	TO SENSOR RETURN SPlice

TO GLOW PLUG POST ON ENGINE

TO ALT EXCITE (D+) ON ENGINE

TO STARTER ON ENGINE

WIRE COLOR	GAUGE	DESCRIPTION	TERMINATION/CONNECTION POINT	CUT LENGTH
[A] RED	8 GA.	STARTER TO ALT BATTERY (+)	1/2" RING TERMINAL TO 5/16" RING TERMINAL	35 IN.
[B] BLACK	8 GA.	STARTER TO ALT BATTERY (-)	1/2" RING TERMINAL TO 5/16" RING TERMINAL	30 IN.
[C] BLACK	8 GA.	STARTER ENGINE BLOCK (-)	1/2" RING TERMINAL TO 3/8" RING TERMINAL	7 IN.

