



P/N: 7501_A

DRAWN BY: LOGAN PAISLEY

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REVISED BY:

DATE:

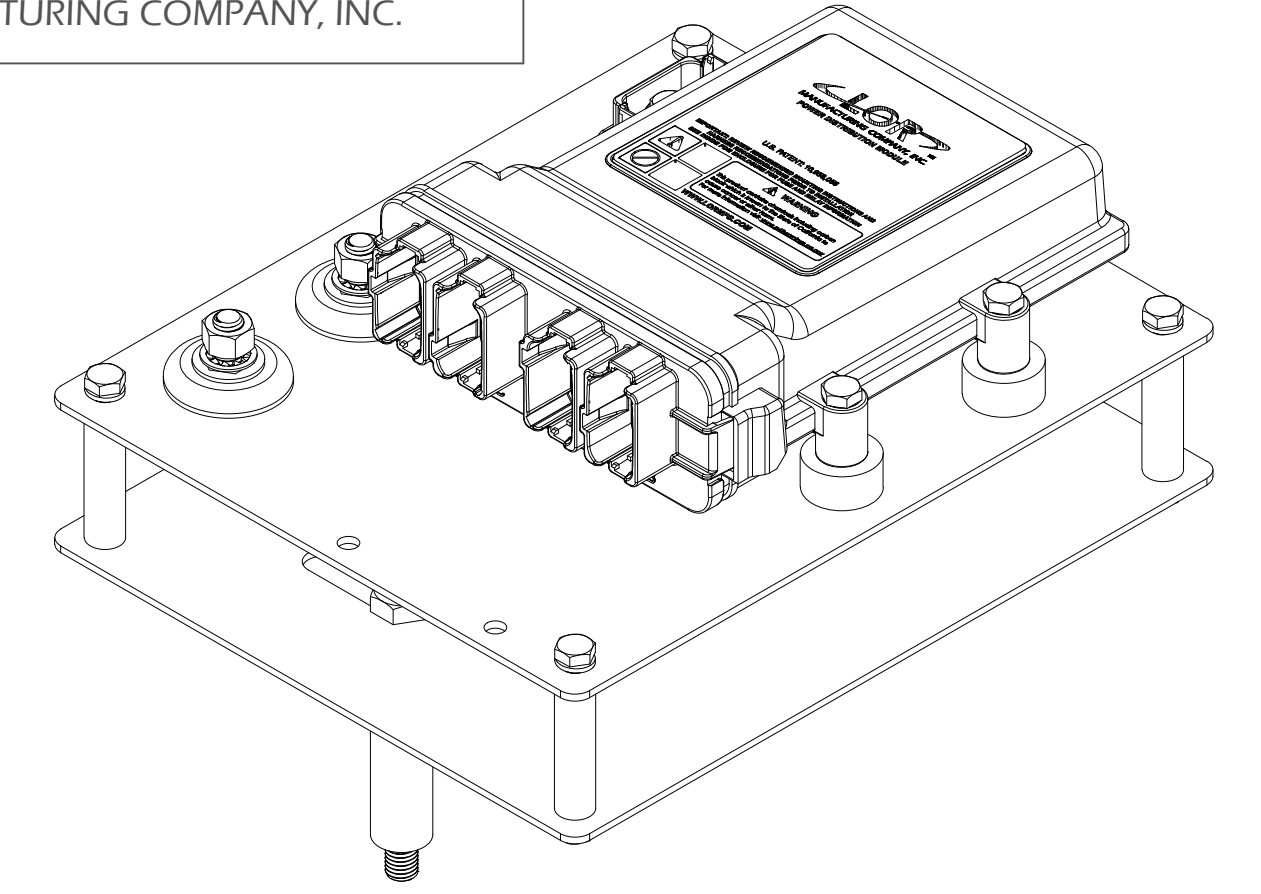
DESCRIPTION: POWER DISTRIBUTION KIT C4.4
12VDC TIER 4 STAGE 5

NOTES:

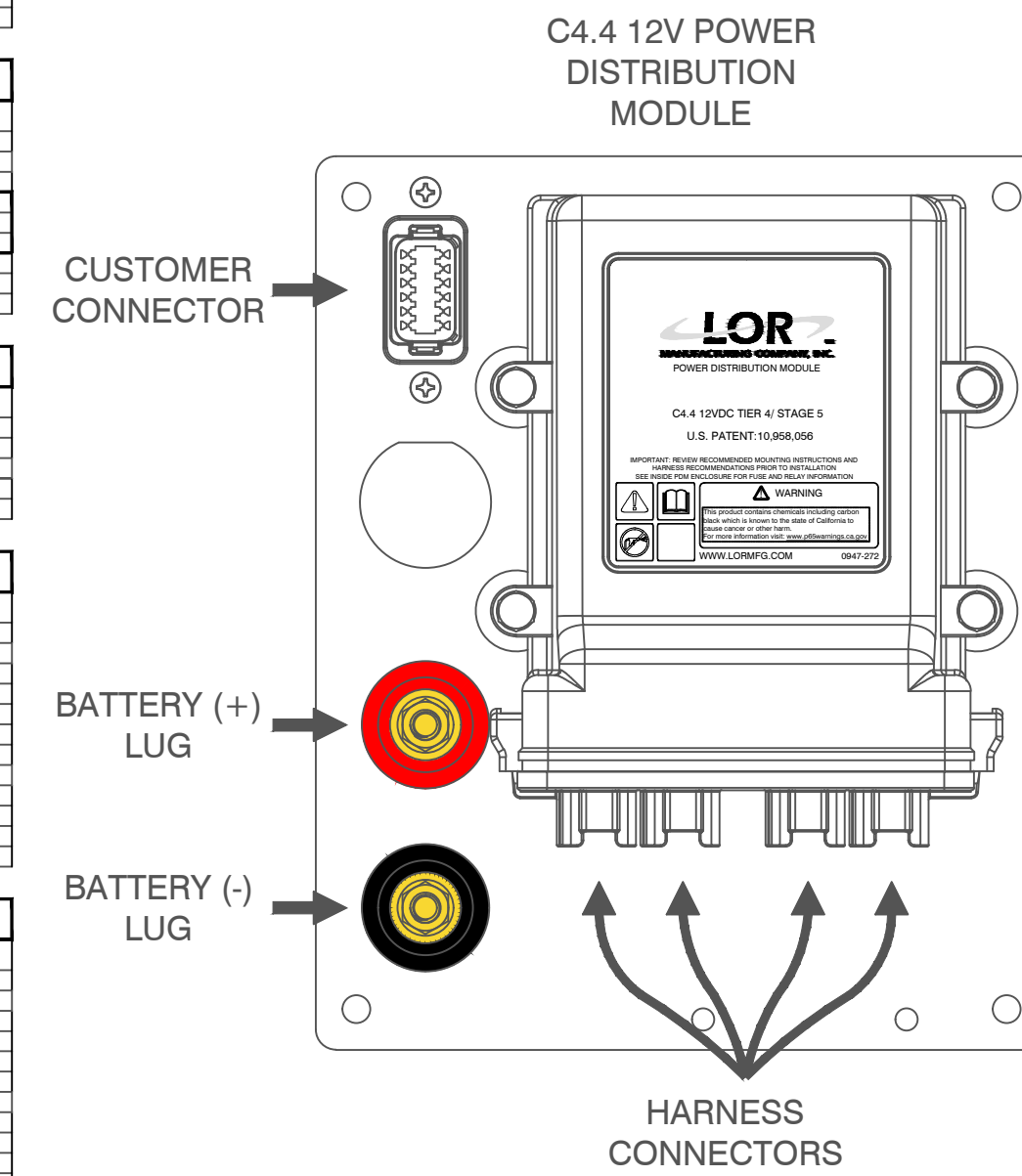
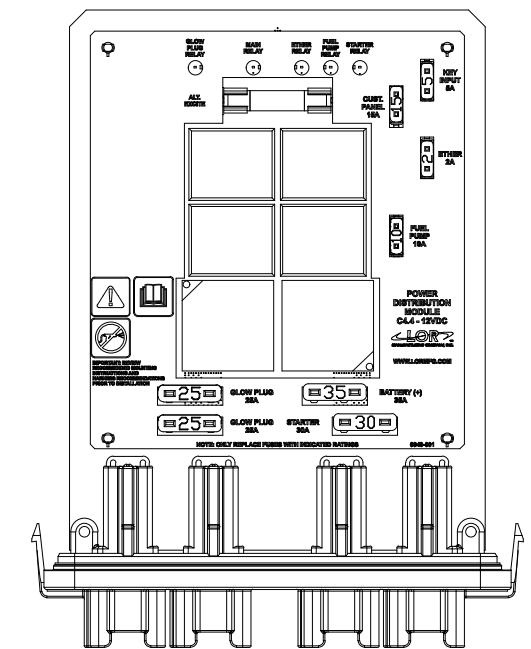
COLOR KEY	
RED	POSITIVE
BLACK	GROUND
GREEN	INPUT
BLUE	OUTPUT
LT. BLUE	CAN-BUS/J-1939

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



INTERIOR VIEW OF PDM



C4.4 12VDC TIER 4 STAGE 5
POWER DISTRIBUTION MODULE

CUSTOMER CONNECTOR

BATTERY (+)
LUG

BATTERY (-)
LUG

HARNESS CONNECTORS

OK TO ELEVATE SPEED		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	SWITCH INPUT RETURN	TO SWITCH TO GROUND INPUT RETURN SPLICE
2	SWITCH INPUT RETURN	TO 12 SOCKET #2
3	SWITCH INPUT RETURN	TO PEN JUMPER

AUTO ETHER AID		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	AUTO ETHER AID	TO 12 SOCKET BLACK CONNECTOR #9
2	AUTO ETHER AID GROUND	TO BATTERY (-) LUG

70 SOCKET CONNECTOR		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	UNSWITCHED BATTERY (+)	TO UNSWITCHED BATTERY SPLICE B
2	SWITCH INPUT RETURN	TO OK TO ELEVATE START 2 SOCKET #2
3	STARTER MOTOR CRANK REQUEST	TO 12 PIN CUSTOMER CONNECTOR #8
4	GLOW PLUG COIL (+)	TO 12 SOCKET GRAY CONNECTOR #12
5	AUTO ETHER AID	TO 12 SOCKET BLACK CONNECTOR #9
6	UNSWITCHED BATTERY (+)	TO UNSWITCHED BATTERY SPLICE B
7	UNSWITCHED BATTERY (-)	TO BATTERY (-) LUG
8	STARTER MOTOR COIL (+)	TO 12 SOCKET BLACK CONNECTOR #2
9	STARTER MOTOR COIL (-)	TO 12 SOCKET BLACK CONNECTOR #7
10	FUEL LIFT PUMP RELAY COIL (+)	TO 12 SOCKET BLACK CONNECTOR #5
11	FUEL LIFT PUMP POWER SUPPLY	TO 12 SOCKET BLACK CONNECTOR #11
12	J1939 (+)	TO 12 PIN CUSTOMER CONNECTOR #7
13	J1939 (-)	TO 12 PIN CUSTOMER CONNECTOR #8
14	RELAY RETURN FROM DC	TO RELAY (-) SPLICE
15	UNSWITCHED BATTERY (-)	TO BATTERY (-) LUG
16	SWITCH TO GROUND W/FLY RETURN	TO SWITCH TO GROUND W/FLY RETURN SPLICE
17	UNSWITCHED BATTERY (+)	TO UNSWITCHED BATTERY SPLICE B
18	UNSWITCHED BATTERY (-)	TO BATTERY (-) LUG
19	UNSWITCHED BATTERY (+)	TO UNSWITCHED BATTERY SPLICE B
20	UNSWITCHED BATTERY (-)	TO BATTERY (-) LUG
21	WAIT TO DISCONNECT LAMP	TO WAIT TO DISCONNECT #1
22	UNSWITCHED BATTERY (-)	TO BATTERY (-) LUG
23	RELAY DRIVE COIL	TO 12 PIN CUSTOMER CONNECTOR #1
24	IGNITION SWITCHED BATTERY INPUT	TO 12 SOCKET BLACK CONNECTOR #7

WAIT TO DISCONNECT LAMP		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	WAIT TO DISCONNECT LAMP	TO 70 SOCKET CONNECTOR #9
2	WAIT TO DISCONNECT LAMP (-)	TO BATTERY (-) LUG

ALTERNATOR EXCITE - #10 RING TERMINAL		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	ENGINE ALTERNATOR EXCITE (+)	TO 12 SOCKET A CONNECTOR #9

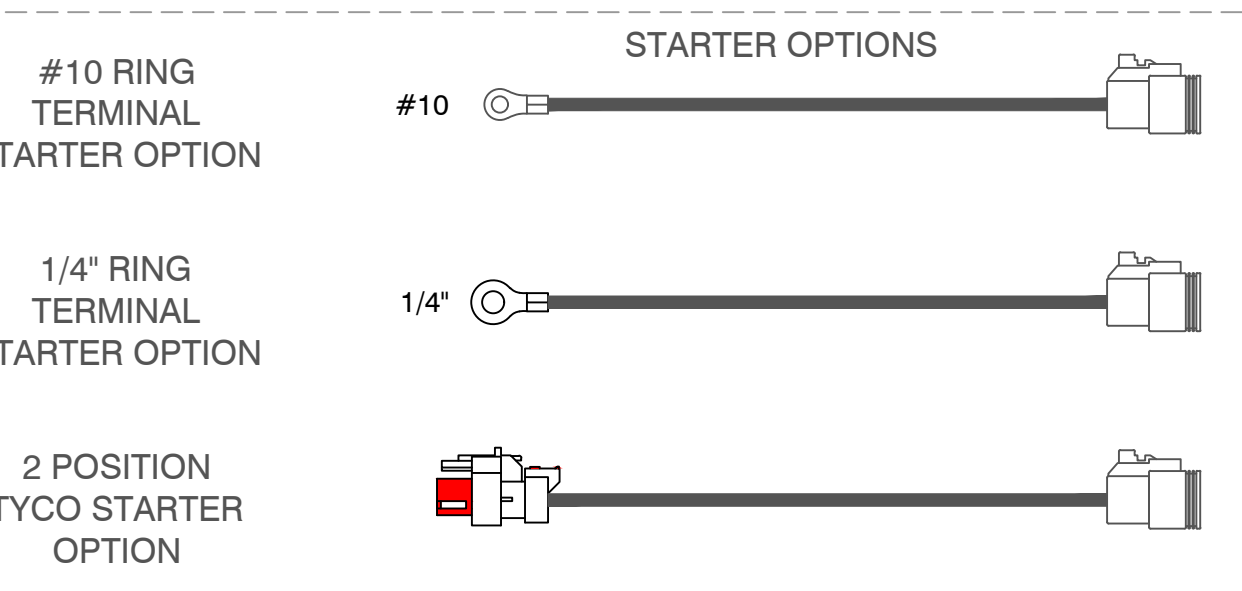
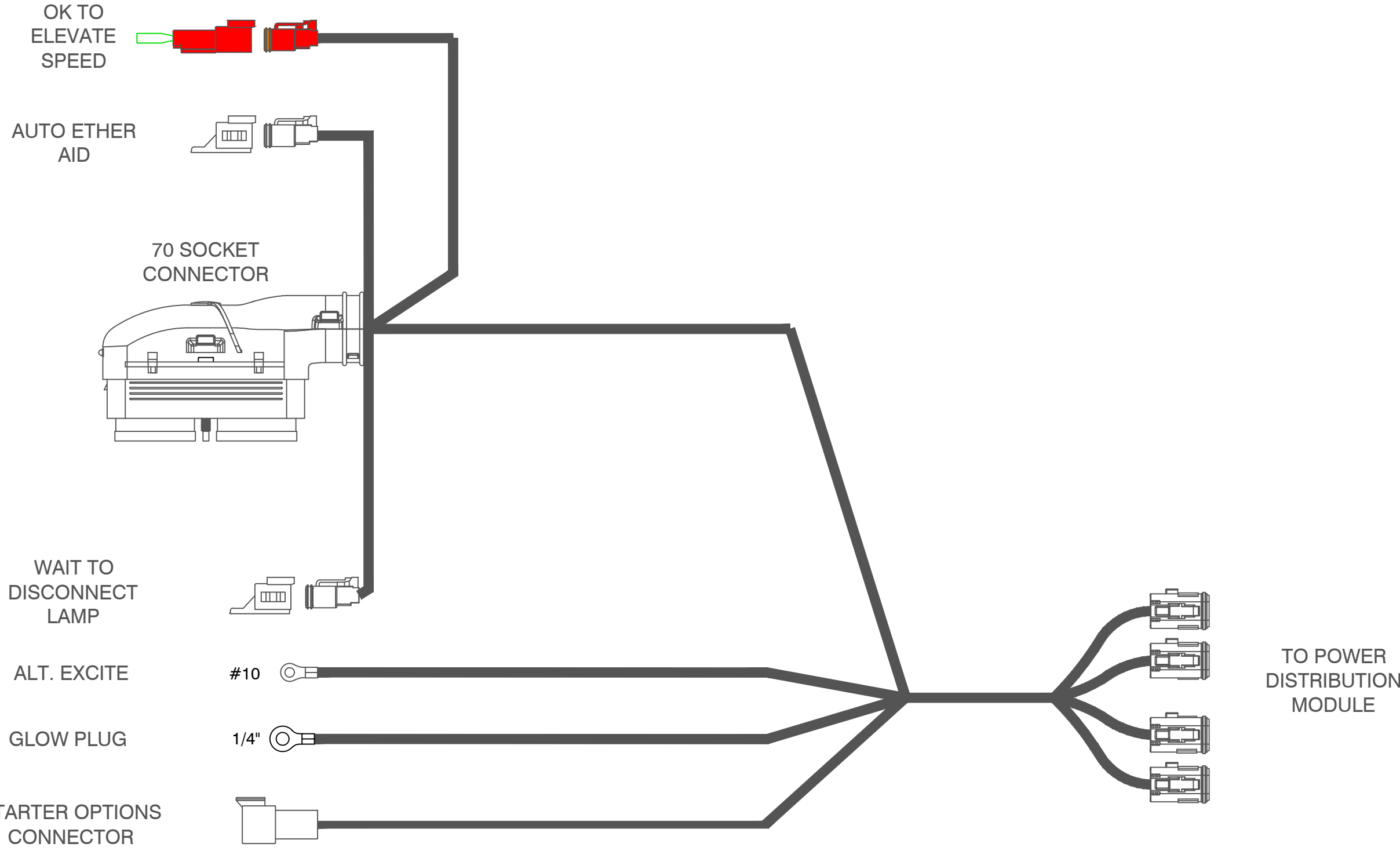
GLOW PLUG - 1/4" RING TERMINAL		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	GLOW PLUG POST ON ENGINE	TO GLOW PLUG SPLICE

STARTER CONNECTOR		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
A	STARTER 1 - NO	TO 12 SOCKET BROWN CONNECTOR #1
B	STARTER 1 - NO	TO 12 SOCKET BROWN CONNECTOR #2
C	STARTER BATTERY (-)	TO BATTERY (-) LUG

STARTER OPTION - #10 RING TERMINAL		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
#10	STARTER 1 - NO	TO 3 SOCKET STARTER CONNECTOR ONE - A
#10	STARTER 1 - NO	TO 3 SOCKET STARTER CONNECTOR ONE - B

STARTER OPTION - 1/4" RING TERMINAL		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1/4"	STARTER 1 - NO	TO 3 SOCKET STARTER CONNECTOR TWO - A
1/4"	STARTER 1 - NO	TO 3 SOCKET STARTER CONNECTOR TWO - B

STARTER OPTION - 2 POSITION TYCO CONNECTOR		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	STARTER 1 - GROUND	TO 3 SOCKET STARTER CONNECTOR THREE - C
2	STARTER 1 - NO	TO 3 SOCKET STARTER CONNECTOR THREE - A



DEF PUMP		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
2	DEF PRESSURE SENSOR SUPPLY	TO PETU #1 SIGNALS #15
3	DEF PRESSURE SENSOR SIGNAL	TO PETU #1 SIGNALS #2
4	DEF PRESSURE SENSOR GROUND	TO PETU #1 SIGNALS #4
5	DEF PUMP MOTOR SUPPLY	TO PETU #1 SIGNALS #5
6	DEF PUMP MOTOR GROUND	TO PETU #1 SIGNALS #6
7	DEF PUMP MOTOR PWR	TO PETU #1 SIGNALS #7
8	DEF PUMP REVERTING VALVE (LS)	TO PETU #1 SIGNALS #8
9	DEF PUMP REVERTING VALVE (HS)	TO PETU #1 SIGNALS #9

COOLANT DIVERTER VALVE		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	COOLANT DIVERTER VALVE SV	TO PETU #1 SIGNALS #12
2	COOLANT DIVERTER VALVE RETURN	TO PETU #2 SIGNALS #1

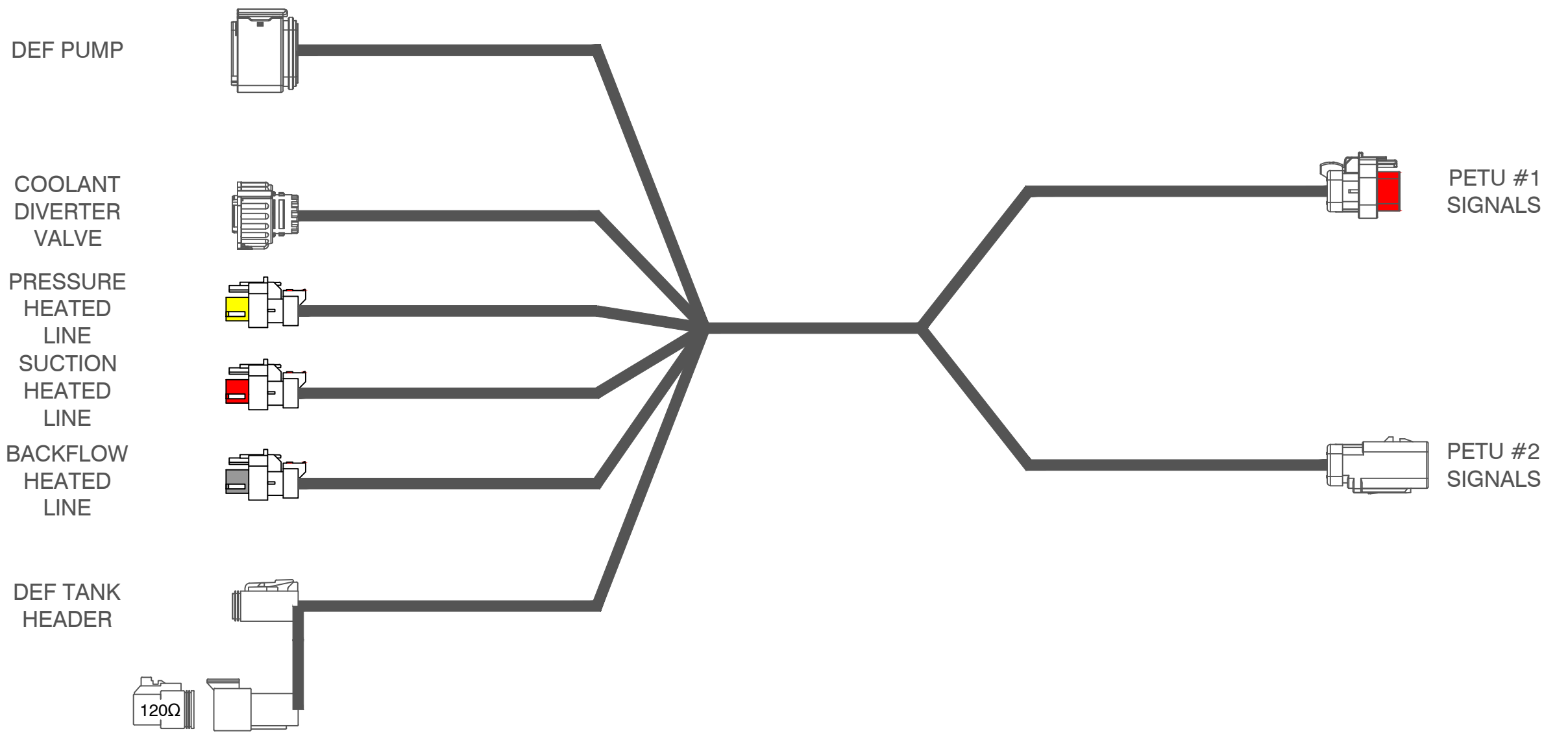
PRESSURE HEATED LINE		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	DEF PRESSURE HEATED LINE (+)	TO PETU #2 SIGNALS #4
2	DEF PRESSURE HEATED LINE (-)	TO PETU #2 SIGNALS #5

SUCTION HEATED LINE		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	DEF SUCTION HEATED LINE (+)	TO PETU #2 SIGNALS #7
2	DEF SUCTION HEATED LINE (-)	TO PETU #2 SIGNALS #8

BACKFLOW HEATED LINE		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	DEF BACKFLOW HEATED LINE (+)	TO PETU #2 SIGNALS #1
2	DEF BACKFLOW HEATED LINE (-)	TO PETU #2 SIGNALS #2

DEF TANK HEADER		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	CAN (-)	TO PETU #2 SIGNALS #10
2	CAN (+)	TO PETU #2 SIGNALS #9
3	DEF TANK HEADER GROUND	TO PETU #2 SIGNALS #11
4	DEF TANK HEADER BATTERY (+)	TO PETU #2 SIGNALS #8

3 PIN RESISTOR		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
A	CAN (-)	TO CAN (-) CABLE SPLICES
B	CAN (+)	TO CAN (+) CABLE SPLICES
C	CAN (-)	TO CAN (-) CABLE SPLICES



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

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

12 PIN CUSTOMER CONNECTOR		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	REMOTE SWITCH	TO 70 SOCKET CONNECTOR #8
2	SWITCH TO GROUND INPUT RETURN	TO SWITCH TO GROUND INPUT RETURN SPLICE
3	STARTER MOTOR CRANK REQUEST	TO 70 SOCKET CONNECTOR #8
4	J1939 (+)	TO 70 SOCKET CONNECTOR #8
5	J1939 (-)	TO 70 SOCKET CONNECTOR #8
6	CAN SHIELD	SHIELD IN J1939 (-) CABLE - NOT TERMINATED
7	IGNITION SWITCH START SIGNAL	TO 12 SOCKET GRAY CONNECTOR #12
8	CUSTOMER CONNECTOR CONSTANT	TO 12 SOCKET BLACK CONNECTOR #8
9	BATTERY (-)	TO BATTERY (-) LUG

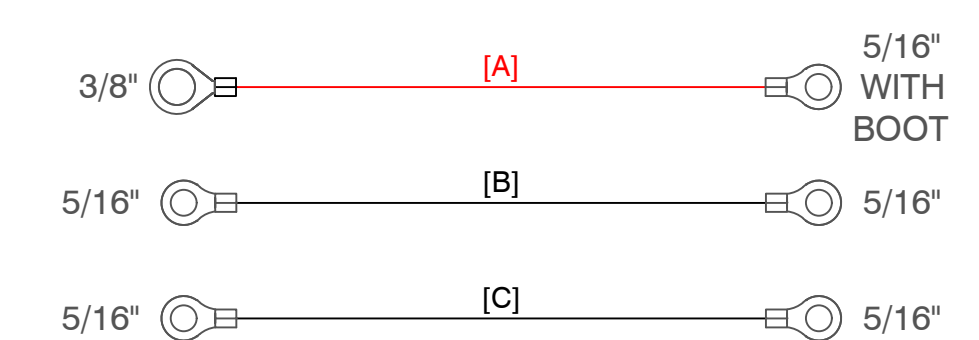
12 SOCKET GRAY CONNECTOR		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	RELAY ALTERNATOR EXCITE (+)	TO ALTERNATOR EXCITE #10 RING TERMINAL
2	RELAY 1 COIL (-)	TO BATTERY (-) LUG
3	IGNITION SWITCH START SIGNAL	TO 12 SOCKET GRAY CONNECTOR #12
4	GLOW PLUG RELAY COIL (+)	TO RELAY (-) SPLICE
5	GLOW PLUG	TO GLOW PLUG SPLICE

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

12 SOCKET BROWN CONNECTOR		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	STARTER 1 - NO	TO STARTER 3 PIN - A
2	STARTER 1 - NO	TO STARTER 3 PIN - B
3	UNSWITCHED BATTERY (+)	TO UNSWITCHED BATTERY SPLICE A
4	UNSWITCHED BATTERY (+)	TO UNSWITCHED BATTERY SPLICE A
5	UNSWITCHED BATTERY (+)	TO UNSWITCHED BATTERY SPLICE A
6	UNSWITCHED BATTERY (+)	TO UNSWITCHED BATTERY SPLICE A
7	BATTERY (+)	TO BATTERY (+) LUG
8	BATTERY (+)	TO BATTERY (+) LUG
9	BATTERY (+)	TO BATTERY (+) LUG
10	BATTERY (+)	TO BATTERY (+) LUG
11	BATTERY (+)	TO BATTERY (+) LUG
12	BATTERY (+)	TO BATTERY (+) LUG

12 SOCKET BLACK CONNECTOR		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	STARTER MOTOR COIL (+)	TO 70 SOCKET CONNECTOR #17
2	STARTER MOTOR COIL (-)	TO 70 SOCKET CONNECTOR #17
3	FUEL LIFT PUMP RELAY COIL (+)	TO RELAY (-) SPLICE
4	FUEL LIFT PUMP RELAY COIL (-)	TO RELAY (-) SPLICE
5	AUTO ETHER AID	TO 70 SOCKET CONNECTOR #9
6	RELAY 2 COIL (-)	TO RELAY (-) SPLICE
7	IGNITION SWITCHED BATTERY INPUT	TO 70 SOCKET CONNECTOR #7
8	CUSTOMER CONNECTOR CONSTANT	TO 12 PIN CUSTOMER CONNECTOR #11
9	AUTO ETHER AID	TO AUTO ETHER AID CONNECTOR #1
10	FUEL LIFT PUMP POWER SUPPLY	TO 70 SOCKET CONNECTOR #22

BATTERY CABLES		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
[A]	STARTER TO ALT BATTERY (+)	3/8" RING TERMINAL TO 5/16" RING TERMINAL
[B]	STARTER B TO BLOCK GROUND	5/16" RING TERMINAL TO 5/16" RING TERMINAL
[C]	STARTER B TO ALT GROUND	5/16" RING TERMINAL TO 5/16" RING TERMINAL



(2X) M10-1.5X100 BOLTS

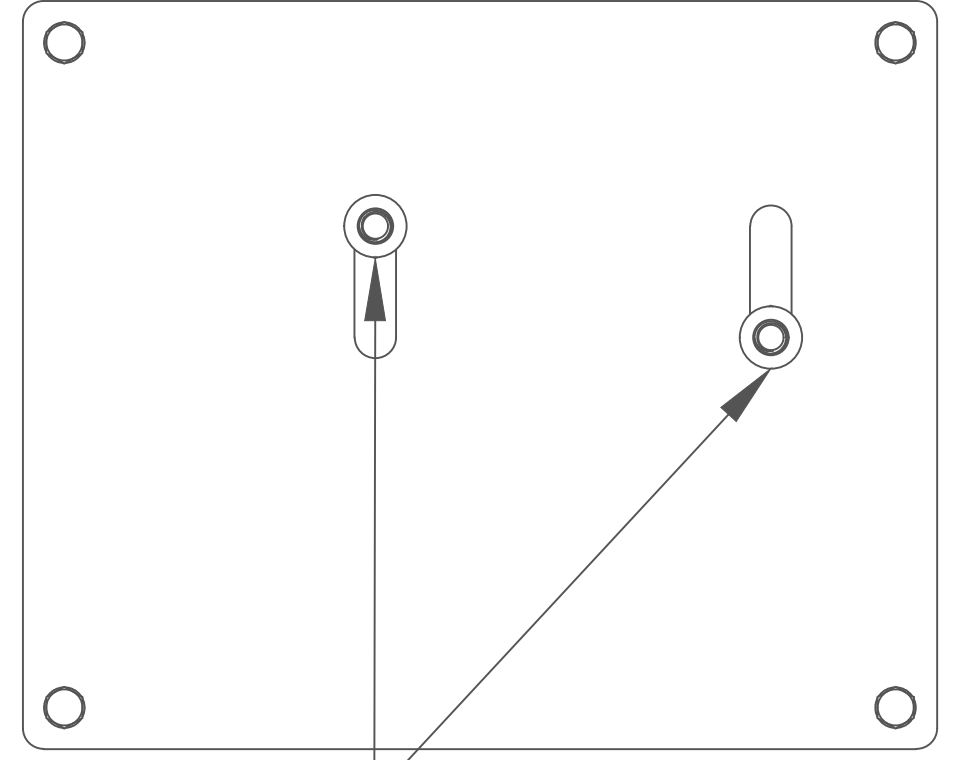
(2X) ENGINE STANDOFFS

(4X) STANDOFFS FOR MOUNTING PLATE

(8X) 1/4-20X3/4SS BOLTS FOR STANDOFFS

(8X) 1/4 SS LOCK WASHERS FOR STANDOFFS

BACK VIEW OF MOUNTING PLATE



OFFSET ENGINE STANDOFFS WHEN MOUNTING TO ACHIEVE 10° SLOPE

