

COLOR KEY	
RED	POSITIVE/Common
BLACK	GROUND/RETURN
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

2 SOCKET CONNECTOR - AUTO ETHER AID		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	AUTO ETHER AID	TO 70 SOCKET CONNECTOR - #10
2	AUTO ETHER AID GROUND	TO 70 SOCKET CONNECTOR - #18

AUTO ETHER AID

70 SOCKET CONNECTOR		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
2	CONSTANT VOLTAGE	TO 12 SOCKET 'C' CONNECTOR - #1
11	CONSTANT VOLTAGE	TO 12 SOCKET 'C' CONNECTOR - #2
38	CONSTANT VOLTAGE	TO 12 SOCKET 'C' CONNECTOR - #2
41	CONSTANT VOLTAGE	TO 12 SOCKET 'C' CONNECTOR - #3
57	CONSTANT VOLTAGE	TO 12 SOCKET 'C' CONNECTOR - #3
10	AUTO ETHER AID	TO 2 SOCKET ETHER AID - #1
13	BATTERY (-) - GROUND	TO 12 GA. BATTERY (-) WIRE SPLICE
35	BATTERY (-) - GROUND	TO 12 GA. BATTERY (-) WIRE SPLICE
45	BATTERY (-) - GROUND	TO 12 GA. BATTERY (-) WIRE SPLICE
47	BATTERY (-) - GROUND	TO 12 GA. BATTERY (-) WIRE SPLICE
65	BATTERY (-) - GROUND	TO 12 GA. BATTERY (-) WIRE SPLICE
70	IGNITION SWITCHED BATTERY INPUT	TO 12 SOCKET 'B' CONNECTOR - #1
25	J1939 (+)	TO 12 SOCKET 'D' CONNECTOR - #7
26	J1939 (-)	TO 12 SOCKET 'D' CONNECTOR - #6
30	SWITCH INPUT RETURN	TO 12 SOCKET 'C' CONNECTOR - #3
3	SWITCH INPUT RETURN	TO 12 SOCKET 'C' CONNECTOR - #3
8	GLOW PLUG COIL (+)	TO TERMINAL 10 - #10 RING TERMINAL
18	GLOW PLUG COIL (-)	TO TERMINAL 11 - #10 RING TERMINAL
1	AUTO ETHER AID GROUND	TO 2 SOCKET ETHER AID - #2
68	REMOTE SHUTDOWN	TO 12 SOCKET 'D' CONNECTOR - #5
59	WAIT TO DISCONNECT LAMP	TO 2 SOCKET (WAIT TO DISCONNECT) - #2

70 SOCKET

2 SOCKET CONNECTOR (BLK)		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	WAIT TO DISCONNECT LAMP	TO 12 SOCKET 'C' CONNECTOR - #7
2	WAIT TO DISCONNECT LAMP	TO 70 SOCKET CONNECTOR - #59

WAIT TO DISCONNECT

DEF TANK CONNECTOR		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	DEF TANK SUPPLY	TO 12 SOCKET 'B' CONNECTOR - #11
2	DEF TANK SUPPLY	TO 12 SOCKET 'B' CONNECTOR - #12
3	BATTERY (-)	TO 6 GA. BATTERY (-) SPLICE
4	BATTERY (-)	TO 6 GA. BATTERY (-) SPLICE

DEF TANK

TERMINAL [2] - ALTERNATOR EXCITE		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
[2]	ENGINE ALTERNATOR EXCITE D+	TO 12 SOCKET 'B' CONNECTOR - #4

ALTERNATOR EXCITE D+

TERMINAL [3] - GLOW PLUG		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
[3]	GLOW PLUG POST ON ENGINE	TO TERMINAL 12 - 5/16" RING TERMINAL

GLOW PLUG

STARTER CONNECTOR - 3 PIN		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
A	STARTER 1 - N/O	TO 12 SOCKET 'D' CONNECTOR - #11
B	STARTER 1 - N/O	TO 12 SOCKET 'D' CONNECTOR - #12
C	STARTER GROUND	TO 6 GA. BATTERY (-) SPLICE

STARTER CONNECTOR

STARTER OPTION - #10 RING TERMINAL		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
#10	STARTER 1 - N/O	TO 3 SOCKET STARTER CONNECTOR ONE - A
#10	STARTER 1 - N/O	TO 3 SOCKET STARTER CONNECTOR ONE - B

#10 RING TERMINAL

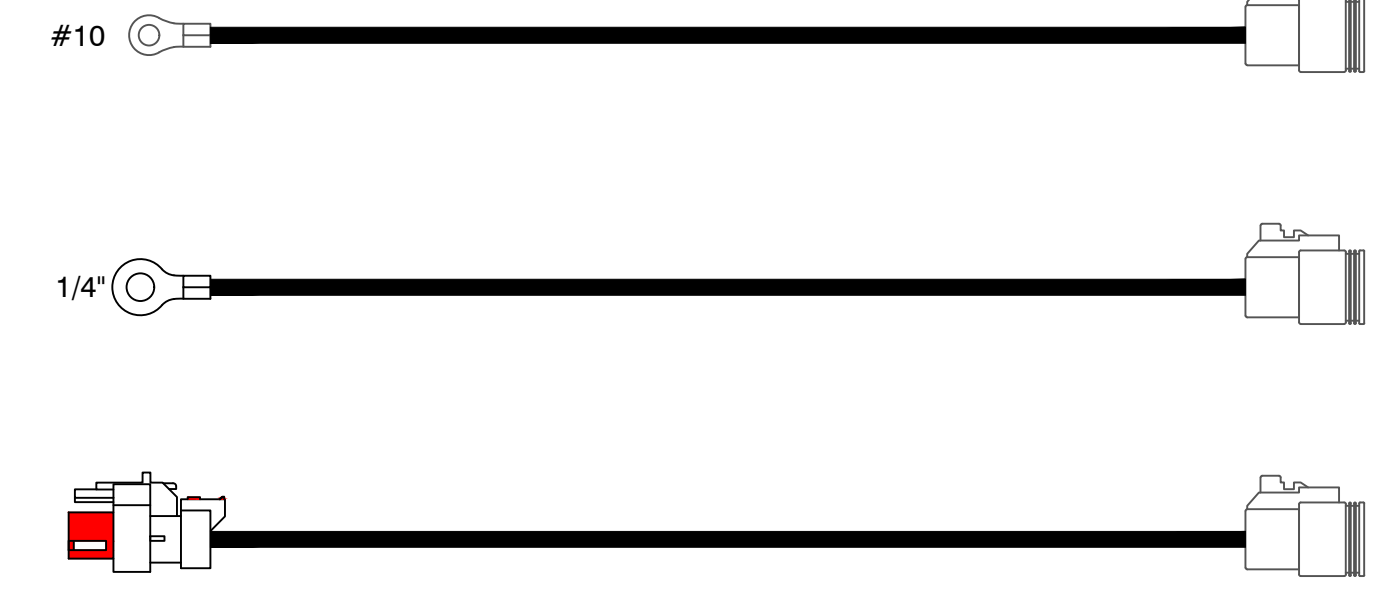
STARTER OPTION - 1/4" RING TERMINAL		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1/4"	STARTER 1 - N/O	TO 3 SOCKET STARTER CONNECTOR TWO - A
1/4"	STARTER 1 - N/O	TO 3 SOCKET STARTER CONNECTOR TWO - B

1/4" RING TERMINAL

STARTER OPTION - 2 POSITION TYCO CONNECTOR		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	STARTER 1 - GROUND	TO 3 SOCKET STARTER CONNECTOR THREE - C
2	STARTER 1 - N/O	TO 3 SOCKET STARTER CONNECTOR THREE - A

TYCO 2 POSITION

PROVIDED STARTER OPTIONS



STARTER CONNECTOR

STARTER CONNECTOR

STARTER CONNECTOR

TO POWER DISTRIBUTION MODULE

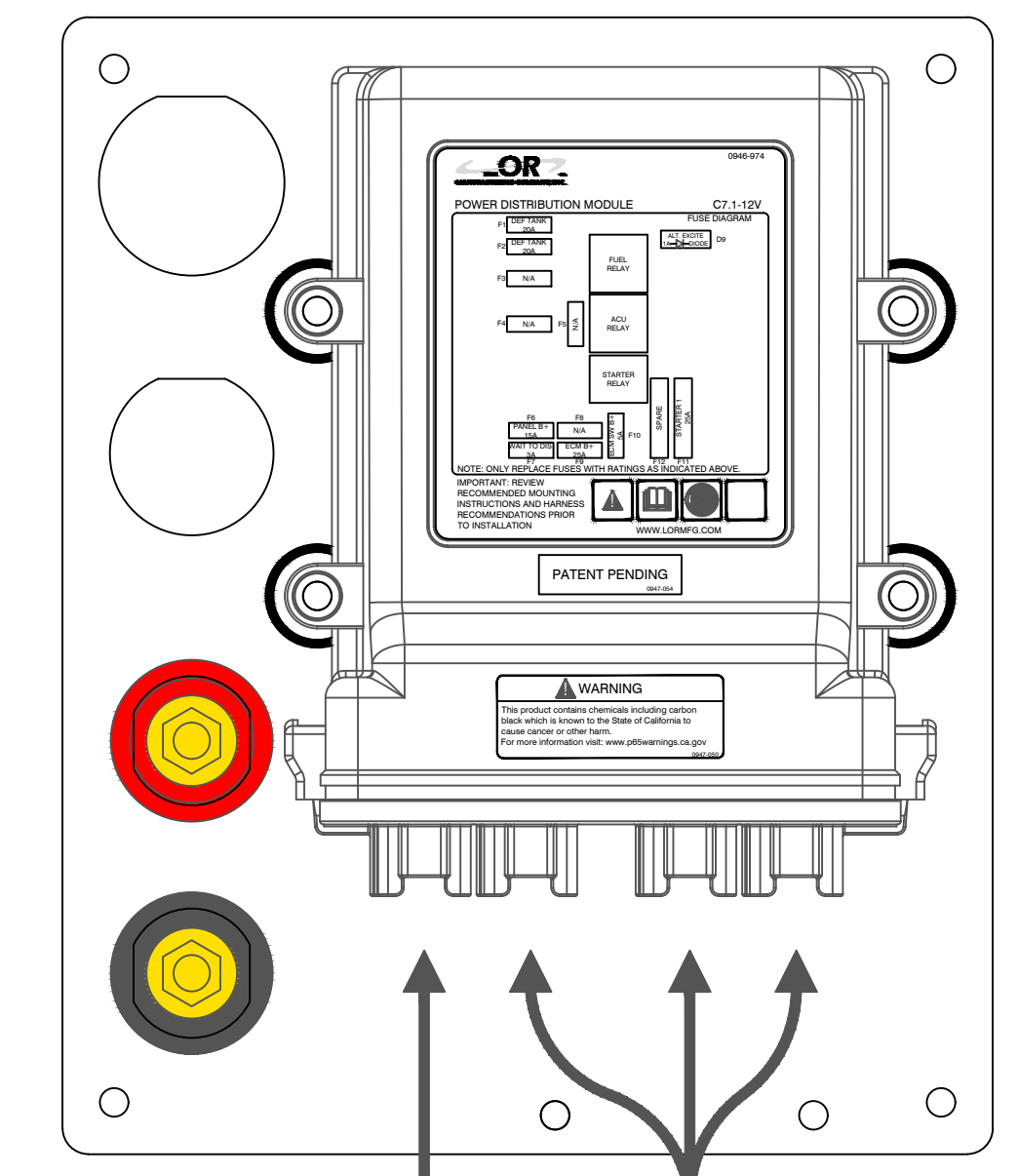
12 SOCKET - CUSTOMER CONNECTOR		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	REMOTE ENGINE SHUTDOWN	
2	ECM SWITCH RETURN	
3	START SOLENOID	
4	EXTERNAL ALARM RELAY OUTPUT	
5	CAT DATA LINK HIGH	
6	CAT DATA LINK LOW	
7	J1939 CAN HIGH	
8	J1939 CAN LOW	
9	CAN SHIELD	
10	KEYSWITCH INPUT	
11	CONSTANT VOLTAGE SUPPLY	
12	GROUND	

12 SOCKET 'C' KEY CONNECTOR (GREEN) - POWER		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	CONSTANT VOLTAGE	TO 70 SOCKET - #2
2	CONSTANT VOLTAGE	TO 70 SOCKET - #11
3	CONSTANT VOLTAGE	TO 70 SOCKET - #38
3	CONSTANT VOLTAGE	TO 70 SOCKET - #41
3	CONSTANT VOLTAGE	TO 70 SOCKET - #57
6	SWITCH INPUT RETURN	TO 70 SOCKET - #30
6	SWITCH INPUT RETURN	TO 70 SOCKET - #3
7	WAIT TO DISCONNECT LAMP	TO WAIT TO DISCONNECT 2 SOCKET - #1
8	BATTERY (-)	TO GROUND BATTERY CABLE SPLICE
9	BATTERY (+)	TO 6 GA. BATTERY (+) SPLICE
10	BATTERY (+)	TO 6 GA. BATTERY (+) SPLICE
11	BATTERY (+)	TO 6 GA. BATTERY (+) SPLICE
12	BATTERY (+)	TO 6 GA. BATTERY (+) SPLICE

12 SOCKET 'D' KEY CONNECTOR (BROWN) - ENGINE		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
5	REMOTE SHUTDOWN	TO 70 SOCKET - #68
5	CAN LOW	TO 70 SOCKET CONNECTOR - #26
7	CAN HIGH	TO 70 SOCKET CONNECTOR - #25
8	J1939 SHIELD	
11	STARTER 1 - N/O	TO TERMINAL 1 - #10 RING TERMINAL
12	STARTER 1 - N/O	TO TERMINAL 1 - #10 RING TERMINAL

12 SOCKET 'B' KEY CONNECTOR (BLACK) - ENGINE		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	IGNITION SWITCHED BATTERY INPUT	TO 70 SOCKET - #70
4	ENGINE ALTERNATOR EXCITE	TO TERMINAL 2 - ALT EXCITE #10 RING TERMINAL
11	DEF TANK SUPPLY	TO DEF TANK CONNECTOR - #1
12	DEF TANK SUPPLY	TO DEF TANK CONNECTOR - #2

C7.1 12V POWER DISTRIBUTION MODULE



CUSTOMER CONNECTOR HARNESS CONNECTORS

BATTERY CABLES					
	WIRE COLOR	GAUGE	DESCRIPTION	TERMINATION/CONNECTION POINT	CUT LENGTH
[A]	RED	6 GA.	STARTER TO ALT BATTERY (+)	1/2" RING TERMINAL TO 5/16" RING TERMINAL	35 IN.
[B]	BLACK	6 GA.	STARTER TO ALT BATTERY (-)	1/2" RING TERMINAL TO 5/16" RING TERMINAL	30 IN.
[C]	BLACK	6 GA.	STARTER ENGINE BLOCK (-)	1/2" RING TERMINAL TO 3/8" RING TERMINAL	7 IN.

