



P/N: 7335

DRAWN BY: B. DELORENZO

DATE: 11-12-2018

REVISED BY:

DATE:

DESCRIPTION: POWER DISTRIBUTION ASSEMBLY
C27-C32 TIER 3 24V

NOTES:

COLOR KEY

RED

POSITIVE

BLACK

GROUND

GREEN

INPUT

BLUE

OUTPUT

LT. BLUE

CAN-BUS/J-1939

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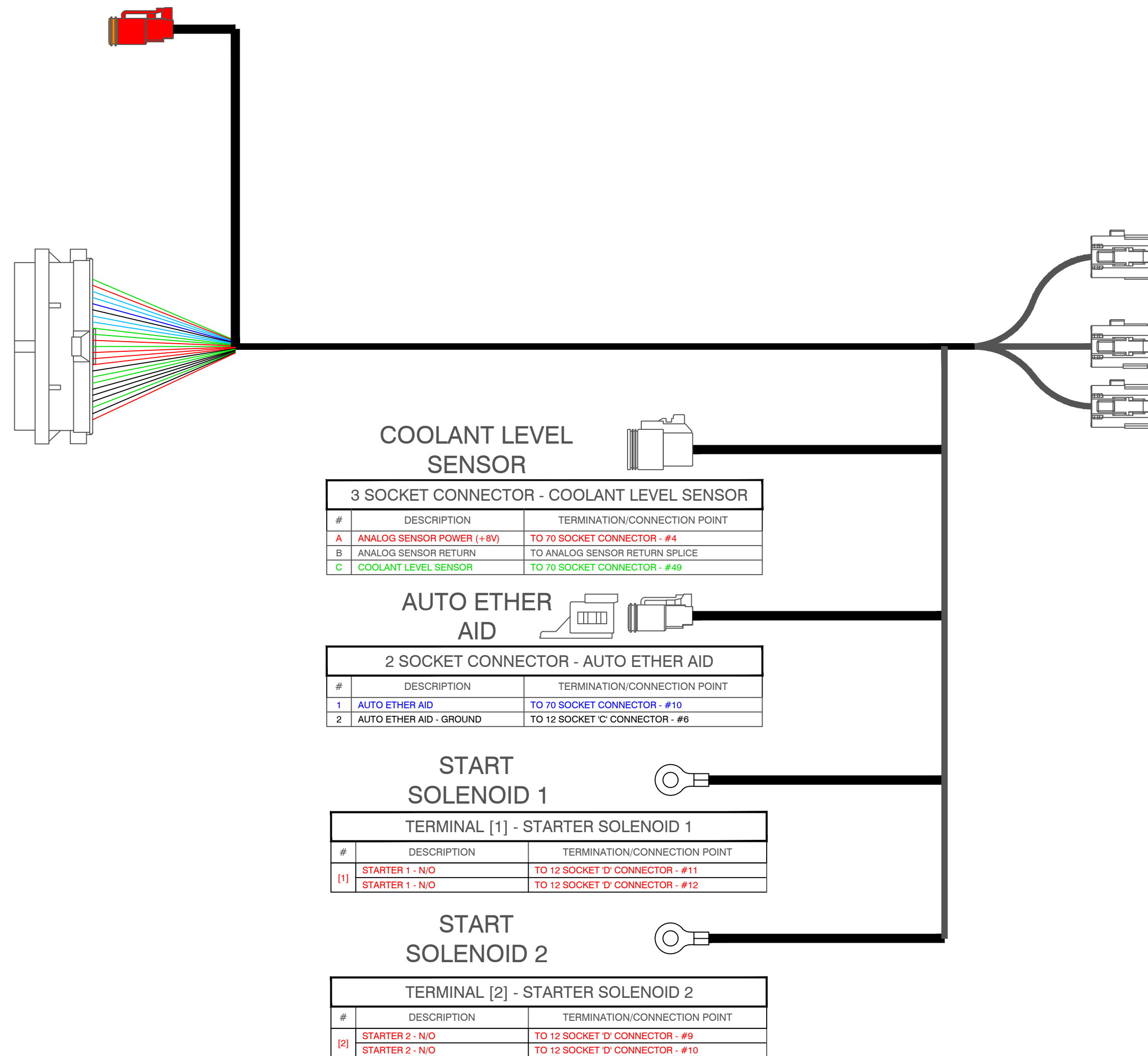
ALL GROUNDS MUST GO TO BATTERY GROUND
ALL POSITIVES MUST GO TO BATTERY POSITIVE

2 SOCKET CONNECTOR - HIGH IDLE OVERRIDE		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	SWITCH INPUT RETURN	TO 12 SOCKET 'C' CONNECTOR - #8
2	SWITCH INPUT RETURN	TO 70 SOCKET - #48

HIGH IDLE
OVERRIDE

70 SOCKET CONNECTOR		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
3	ANALOG SENSOR RETURN	TO ANALOG SENSOR RETURN SPLICE
4	DIGITAL SENSOR POWER (+5V)	TO 3 SOCKET (COOLANT LEVEL SENSOR) - A
8	CAT DATA LINK (+)	TO CAT DATA LINK SPLICE
9	CAT DATA LINK (-)	TO CAT DATA LINK SPLICE
10	AUTO ETHER AID	TO 2 SOCKET (AUTO ETHER) - #1
18	SWITCH INPUT RETURN	TO 12 SOCKET 'C' CONNECTOR - #8
27	BATTERY (-) - GROUND	TO GROUND BATTERY CABLE SPLICE
32	BATTERY (-) - GROUND	TO GROUND BATTERY CABLE SPLICE
36	BATTERY (-) - GROUND	TO GROUND BATTERY CABLE SPLICE
42	J1939 DATA LINK SHIELD	TO J1939 SPLICE
50	J1939 DATA LINK (+)	TO J1939 SPLICE
54	J1939 DATA LINK (-)	TO J1939 SPLICE
44	REMOTE SHUTDOWN SWITCH	TO 12 SOCKET 'D' CONNECTOR - #5
46	SWITCH INPUT RETURN	TO 2 SOCKET (HIGH IDLE OVERRIDE) - #2
48	BATTERY (+) - CONSTANT VOLTAGE	TO 12 SOCKET 'C' CONNECTOR - #1
49	COOLANT LEVEL SENSOR	TO 3 SOCKET (COOLANT LEVEL SENSOR) - C
52	BATTERY (+) - CONSTANT VOLTAGE	TO 12 SOCKET 'C' CONNECTOR - #2
53	BATTERY (+) - CONSTANT VOLTAGE	TO 12 SOCKET 'C' CONNECTOR - #2
55	BATTERY (+) - CONSTANT VOLTAGE	TO 12 SOCKET 'C' CONNECTOR - #3
61	BATTERY (-) - GROUND	TO GROUND BATTERY CABLE SPLICE
63	BATTERY (-) - GROUND	TO GROUND BATTERY CABLE SPLICE
65	BATTERY (-) - GROUND	TO GROUND BATTERY CABLE SPLICE
69	BATTERY (-) - GROUND	TO GROUND BATTERY CABLE SPLICE
70	SWITCHED VOLTAGE	TO 12 SOCKET 'B' CONNECTOR - #1
	SWITCHED VOLTAGE	TO DATA LINK 9 PIN - A

70 SOCKET
ECM



COOLANT LEVEL SENSOR

3 SOCKET CONNECTOR - COOLANT LEVEL SENSOR		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
A	ANALOG SENSOR POWER (+5V)	TO 70 SOCKET CONNECTOR - #4
B	ANALOG SENSOR RETURN	TO ANALOG SENSOR RETURN SPLICE
C	COOLANT LEVEL SENSOR	TO 70 SOCKET CONNECTOR - #49

AUTO ETHER AID

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 12 SOCKET 'C' CONNECTOR - #6

START SOLENOID 1

TERMINAL [1] - STARTER SOLENOID 1		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
[1]	STARTER 1 - N/O	TO 12 SOCKET 'D' CONNECTOR - #11
	STARTER 1 - N/O	TO 12 SOCKET 'D' CONNECTOR - #12

START SOLENOID 2

TERMINAL [2] - STARTER SOLENOID 2		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
[2]	STARTER 2 - N/O	TO 12 SOCKET 'D' CONNECTOR - #9
	STARTER 2 - N/O	TO 12 SOCKET 'D' CONNECTOR - #10

12 SOCKET - CUSTOMER CONNECTOR		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	REMOTE ENGINE SHUTDOWN	
2	SW. COMMON FROM ECM	
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	

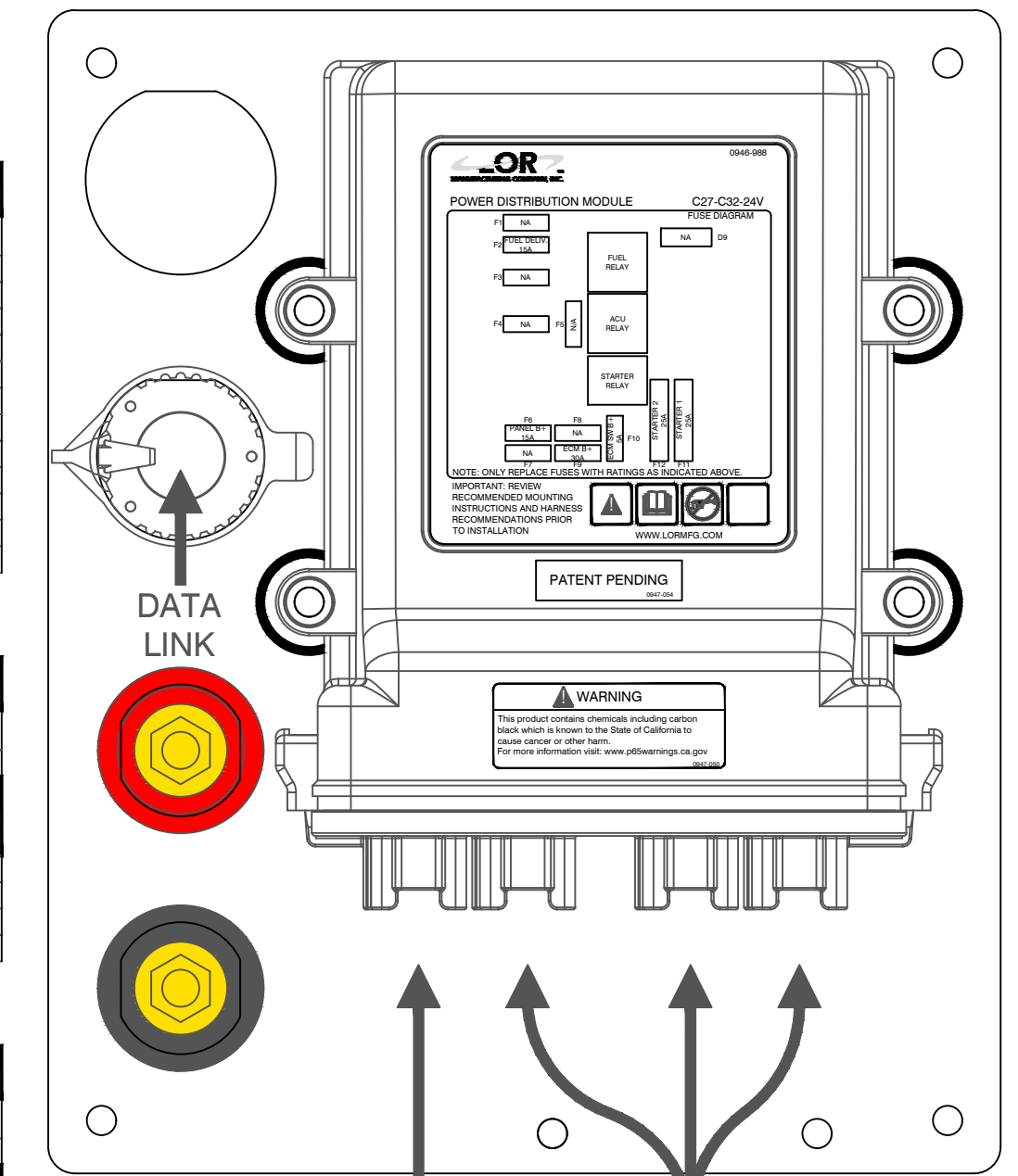
12 SOCKET 'C' KEY CONNECTOR (GREEN) - POWER		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	CONSTANT VOLTAGE	TO 70 SOCKET CONNECTOR - #48
2	CONSTANT VOLTAGE	TO 70 SOCKET CONNECTOR - #52
3	CONSTANT VOLTAGE	TO 70 SOCKET CONNECTOR - #53
4	CONSTANT VOLTAGE	TO 70 SOCKET CONNECTOR - #55
5	SWITCH INPUT RETURN	TO 70 SOCKET CONNECTOR - #10
6	SWITCH INPUT RETURN	TO 2 SOCKET (HIGH IDLE OVERRIDE) - #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 SWITCH	TO 70 SOCKET CONNECTOR - #44
6	CAN LOW	TO J1939 SPLICE - GREEN
7	CAN HIGH	TO J1939 SPLICE - YELLOW
8	J1939 SHIELD	TO J1939 SPLICE - SHIELD
9	STARTER 2 - N/O	TO TERMINAL 2 - 1/4" RING TERMINAL
10	STARTER 2 - N/O	TO TERMINAL 2 - 1/4" RING TERMINAL
11	STARTER 1 - N/O	TO TERMINAL 1 - 1/4" RING TERMINAL
12	STARTER 1 - N/O	TO TERMINAL 1 - 1/4" RING TERMINAL

12 SOCKET 'B' KEY CONNECTOR (BLACK) - ENGINE		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	IGNITION SWITCHED BATTERY INPUT	TO 70 SOCKET CONNECTOR - #70
5	CAT DATA LINK (+)	TO CAT DATA LINK SPLICE
6	CAT DATA LINK (-)	TO CAT DATA LINK SPLICE

DATA LINK CONNECTOR - 9 PIN		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
A	SWITCHED VOLTAGE	TO 70 SOCKET CONNECTOR - #70
B	GROUND	TO GROUND BATTERY CABLE SPLICE
C	J1939 SHIELD	TO J1939 SPLICE - SHIELD
D	J1939 (+)	TO J1939 SPLICE - YELLOW
E	J1939 (-)	TO J1939 SPLICE - GREEN
F	CAT DATA LINK (+)	TO CAT DATA LINK SPLICE
G	CAT DATA LINK (-)	TO CAT DATA LINK SPLICE

C27-C32 TIER 3 24V
POWER
DISTRIBUTION
MODULE



DATA LINK

CUSTOMER
CONNECTOR HARNESS
CONNECTORS