


Title:	Command Zone Retrofit to HED Color Display			
Number:	PB_273	Release Date:	01/05/09	
Revision Number:	13	Revision Date:	11/26/24	
Chassis Type:	Aerial and Chassis			
Component Description:	CZI, CZII			
Parts:	Refer to parts list within bulletin			
Tools:	Sharp, cutting tool, Connector removal tool, Laptop with Command Zone tools installed, and RS-232 cable			

Subject:

This is a procedure outlining the steps required to retro fit a fire apparatus that currently has a CZI HED, CZI Morey, or a CZII Morey display to the current production product – HED Color display. This process outlines all potential environments in which this is possible.

NOTE: See table 1 for ground matrix key.

Description/Procedure:

Alarm outputs are no longer included in the new displays. External outputs need to be programmed in Command Zone for the alarms. Please note in the order for the program update if the customer also wants to add an alarm silence switch to the same area as the display replacement. Directions will be provided from the programmers where alarm outputs were added and where the alarm needs to be wired to.

1. Part Components Needed Per Location:

AERIAL – COMMAND ZONE I – HED DISPLAYS BOM #1906557	
QTY	DESCRIPTION
1	DISPLAY
1	TEMPLATE, CZ3 DISP CUTOUT, ALU
4	NUT, CAGED,8-32, DACROMET FINISH
4	SCREW, #8-32-PH PAN HD, BLK, ZNC
4	WASHER, SHOULDER, BLACK. #8 SCREW
1	CONNECTOR
12	TERM, DEUTSCH SOCK 16, 14-16 GA
1	ALARM, AUDIO, CONTINUOUS, W/CON
	Aerial Software change required. Software change will be processed when order is received.

AERIAL – COMMAND ZONE I- MOREY DISPLAY BOM #1906559	
QTY	DESCRIPTION
1	DISPLAY, COLOR, CZI REPLACEMENT
1	TEMPLATE, CZ3 DISP CUTOUT, ALU
4	NUT, CAGED,8-32, DACROMET FINISH
4	SCREW, #8-32-PH PAN HD, BLK, ZNC
4	WASHER, SHOULDER, BLACK. #8 SCREW
1	CONNECTOR
	Aerial Software change required. Software change will be processed when order is received.

PARTS BULLETIN #273.13

AERIAL – COMMAND ZONE II – MOREY DISPLAYS BOM #1906562	
QTY	DESCRIPTION
1	DISPLAY
1	TEMPLATE, CZ3 DISP CUTOUT, ALU
4	NUT, CAGED, 8-32, DACROMET FINISH
4	SCREW, #8-32-PH PAN HD, BLK, ZNC
4	WASHER, SHOULDER, BLACK. #8 SCREW
1	CONNECTOR
Aerial Software change required. Software change will be processed when order is received.	

CHASSIS – COMMAND ZONE I – HED DISPLAYS BOM #1906552	
QTY	DESCRIPTION
1	HARNESS, COLOR DISPLAY VDM INT
1	DISPLAY
1	MODULE, OUTPUT, BLK, CZ D-SERIES
1	MODULE, BLK, IN/OUT, CZ D-SERIES
1	TEMPLATE, CZ3 DISP CUTOUT, ALU
1	ALARM, AUDIO, CONTINUOUS, W/CON
2	HARNESS, ENCAPSULATED RELAY
2	RELAY, SPDT 30A 12VDC, ENCAPSULA
4	NUT, CAGED,8-32, DACROMET FINISH
4	SCREW, #8-32-PH PAN HD, BLK, ZNC
4	WASHER, SHOULDER, BLACK. #8 SCREW
1	MODULE, AMP WHITE CONVERTOR
1	MODULE, AMP BLACK CONVERTOR
Chassis Software change required. Software change will be processed when order is received.	

CHASSIS – COMMAND ZONE I (See Figure 7)	
QTY	DESCRIPTION
1	DISPLAY 60-1162-0001
1	ADAPTER HARNESS 64-1732
Chassis program update to add alarm output and silence switch.	
NOTE: CZ1 upgraded to 60-1156 is now upgrading to 60-1162.	

CHASSIS – COMMAND ZONE I – MOREY DISPLAYS BOM #1906554	
QTY	DESCRIPTION
1	DISPLAY
1	TEMPLATE, CZ3 DISP CUTOUT, ALU
4	NUT, CAGED,8-32, DACROMET FINISH
4	SCREW, #8-32-PH PAN HD, BLK, ZNC
4	WASHER, SHOULDER, BLACK. #8 SCREW
1	CONNECTOR
Chassis Software change required. Software change will be processed when order is received.	

PARTS BULLETIN #273.13

CHASSIS – COMMAND ZONE II – MOREY DISPLAYS BOM #1906555	
QTY	DESCRIPTION
1	DISPLAY
1	TEMPLATE, CZ3 DISP CUTOUT, ALU
4	NUT, CAGED,8-32, DACROMET FINISH
4	SCREW, #8-32-PH PAN HD, BLK, ZNC
4	WASHER, SHOULDER, BLACK. #8 SCREW
1	CONNECTOR
	Chassis Software change required. Software change will be processed when order is received.

2. General Installation Instructions:

- Remove display (save original screws).
- With the template laid over the top, trace out the inside of the tool.
- With the wiring out of the way, cut out the opening to the size of the trace using a suitable knife.
- Install j-clips to align with the mounting holes of the new display.



Figure 1

3. Wiring Layouts:

AERIAL (BOM #1906557)

Control System	Display Manufacturer (old)	Location	Controller Software Change	Display Part # (New)
CZI	HED	Torque Box	Yes	60-1162-0001
	1015426 series	Turntable	Yes	60-1162-0001
	1193471 series	Basket	Yes	60-1162-0001

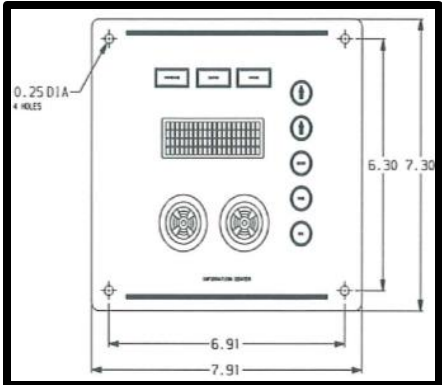


Figure 2

Black Connector Pin #	New Black 18 Pin Connector Pin #
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16 3101 Red	6
17 3352 Black	5
18 5004 Grey	9
19 5004 Grey	10
20 5004 Grey	15
21 5004 Grey	16
22 Can Lo Green	8
23 Can Hi Yellow	7

NOTE: See table 1 for ground matrix key pins 9, 10, 15, and 16. Not all of them are needed.

AERIAL (BOM #1906559)

Control System	Display Manufacturer (old)	Location	Controller Software Change	Display Part # (New)
CZI	Morey			
	63-1840 series	Cab	Yes	60-1162-0001
	63-1841series	Pump	Yes	60-1162-0001

Round HDP Connector Pin #	New Black 18 Pin Connector Pin #
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11 Can Hi Yellow	7
12 Can Lo Green	8
13	
15	
17	
18	
19	
20	
21	
22 4111 Red	6
23 5080 Grey	5
24	
25	
26	
27	
28	
29	
30	

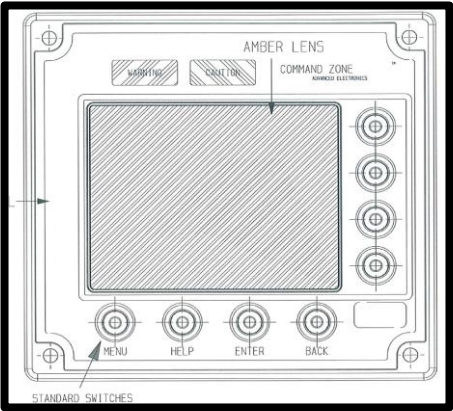


Figure 3

PARTS BULLETIN #273.13

AERIAL (BOM #1906562)

Control System	Display Manufacturer (old)	Location	Controller Software Change	Display Part # (New)
CZII	Morey	Torque Box	Yes	60-1161-001
CZII	63-1757 series	Turntable	Yes	60-1161-001
CZII	63-1758 series	Basket	Yes	60-1161-001

Round HDP Connector Pin #	New Black 18 Pin Connector Pin #
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11 Can Hi Yellow	7
12 Can Lo Green	8
13 M500/M600 Grey	9
14 M500/M600 Grey	10
15 M500/M600 Grey	15
16 M500/M600 Grey	16
17	
18	
19	
20	
21	
22 M483/M641 Red	6
23 M501/M746 Black	5
24	
25	
26	
27	
28	
29	
30	
31 M417/M730 Brown	1 (Power Output To Alarm)

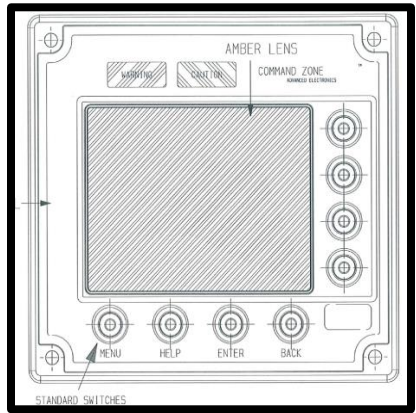


Figure 4

NOTE: See table 1 for ground matrix key pins 9, 10, 15, and 16. Not all of them are needed.

PARTS BULLETIN #273.13

CHASSIS (BOM #1906552)

Control System	Display Manufacturer (old)	Location	Controller Software Change	Display Part # (New)
CZ1	60-8880-****	Cab	Yes	60-1162-0001
CZ1	60-8880-****	Pump	Yes	60-1162-0001

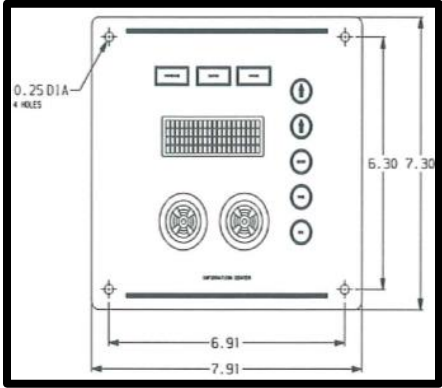


Figure 5

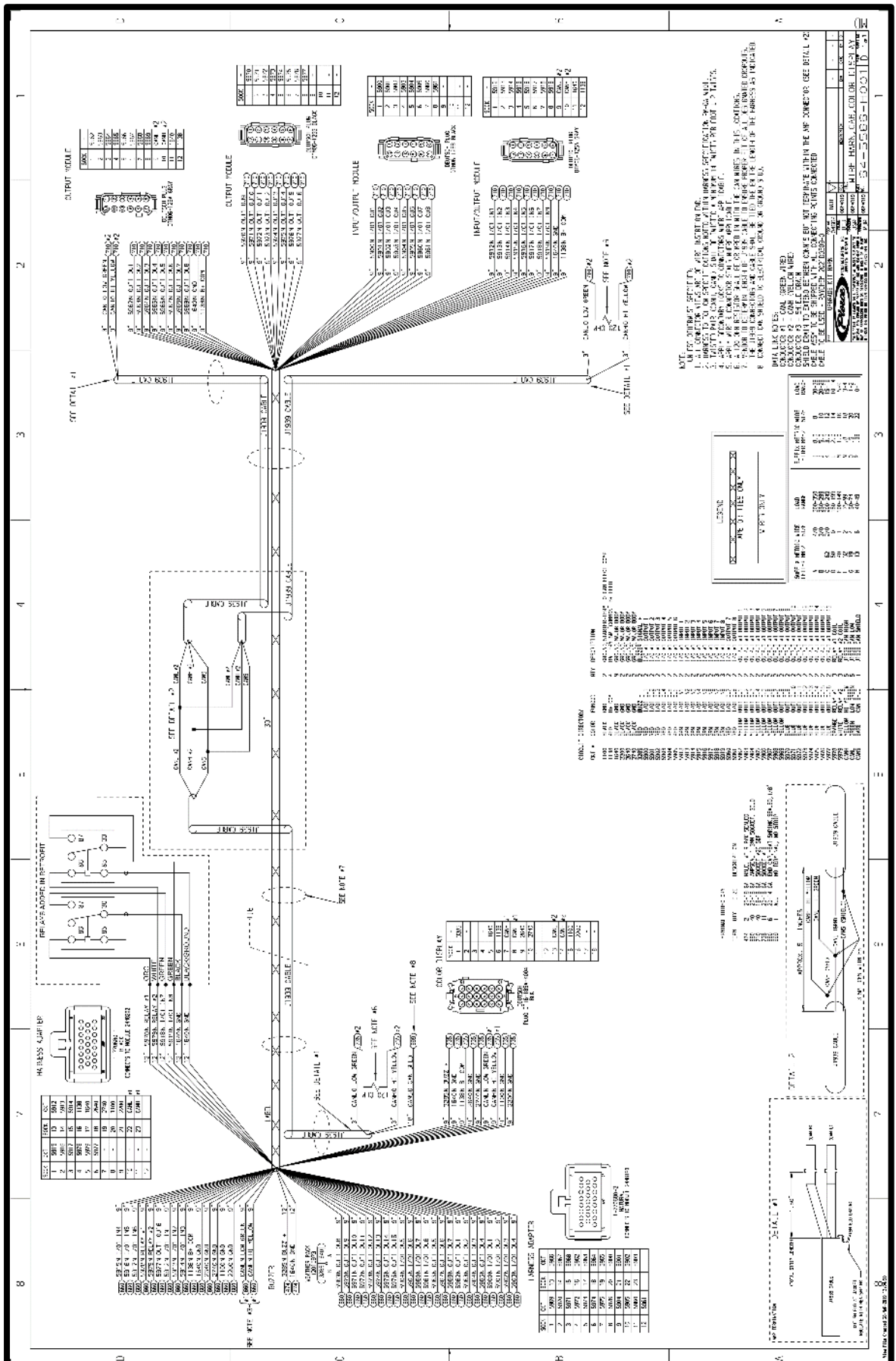


Figure 6

CHASSIS (BOM #1906554)

Control System	Display Manufacturer (old)	Location	Controller Software Change	Display Part #
CZI	Morey			
	63-1840 series	Cab	Yes	60-1162-0001
	63-1841 series	Pump	Yes	60-1162-0001

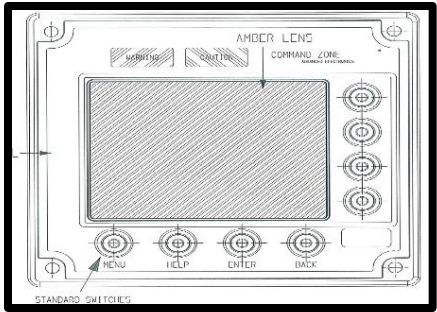


Figure 8

Round HDP Connector Pin #	New Black Connector Pin #
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11 Can Hi Yellow	7
12 Can Lo Green	8
13	
14 5080 Grey	10 Only For Cab
15	
16 5080 Grey	16 Only For Pump Panel
17	
18	
19	
20	
21	
22 4111 Red	6
23 5080 Grey	5
24	
25	
26	
27	
28	
29	
30	
31 5200 Brown	1 (Power Output To Alarm)

PARTS BULLETIN #273.13

CHASSIS (BOM #1906555)

Control System	Display Manufacturer (old)	Location	Controller Software Change	Display Part # (New)
CZII	Morey			
	63-1757 series	Cab		60-1161-001
	63-1758 series	Pump		60-1161-001

Round HDP Connector Pin #	New Black 18 Pin Connector Pin #
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11 Can Hi Yellow	7
12 Can Lo Green	8
13 5080 Grey	9
14 5080 Grey	10
15 5080 Grey	15
16 5080 Grey	16
17	
18	
19	
20	
21	
22 4111 Red	6
23 5080 Grey	5
24	
25	
26	
27	
28	
29	
30	
31 5200 Brown	1 (Power Output To Alarm)

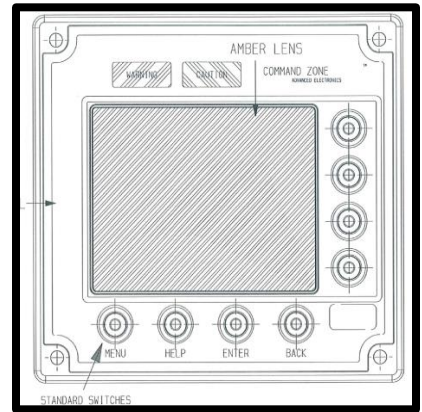


Figure 9

NOTE: See table 1 for ground matrix key pins 9, 10, 15, and 16. Not all of them are needed.

PARTS BULLETIN #273.13

Table 1: Ground Matrix

Ground Matrix Key	Pin
CZ1 HED Chassis Cab	Pin 9
CZ1 HED Chassis Pump	Pins 9, 10
CZ1 Morey Chassis Cab	Pin 10
CZ1 Morey Chassis Pump	Pin 16
CZ1 Aerial Torque Box	Pins 9, 10, 16
CZ1 Aerial Turntable	Pins 15, 16
CZ1 Aerial Basket	Pins 9, 15, 16
CZ2 Morey Chassis Cab	Pin 9
CZ2 Morey Chassis Pump	Pins 9, 10
CZ2 Morey Aerial Turntable	Pins 10, 15
CZ2 Morey Aerial Basket	Pin 16

4. General Completion and Testing Instructions:

- Display is wired and connected to harness.
- Power truck up and test new, color display.
 - If tests bad: begin troubleshooting procedures.
 - If tests good: move on.
- Position the new, color display into the opening.
- Place original screws into openings and screw down tightly.
- Test again when completely installed.

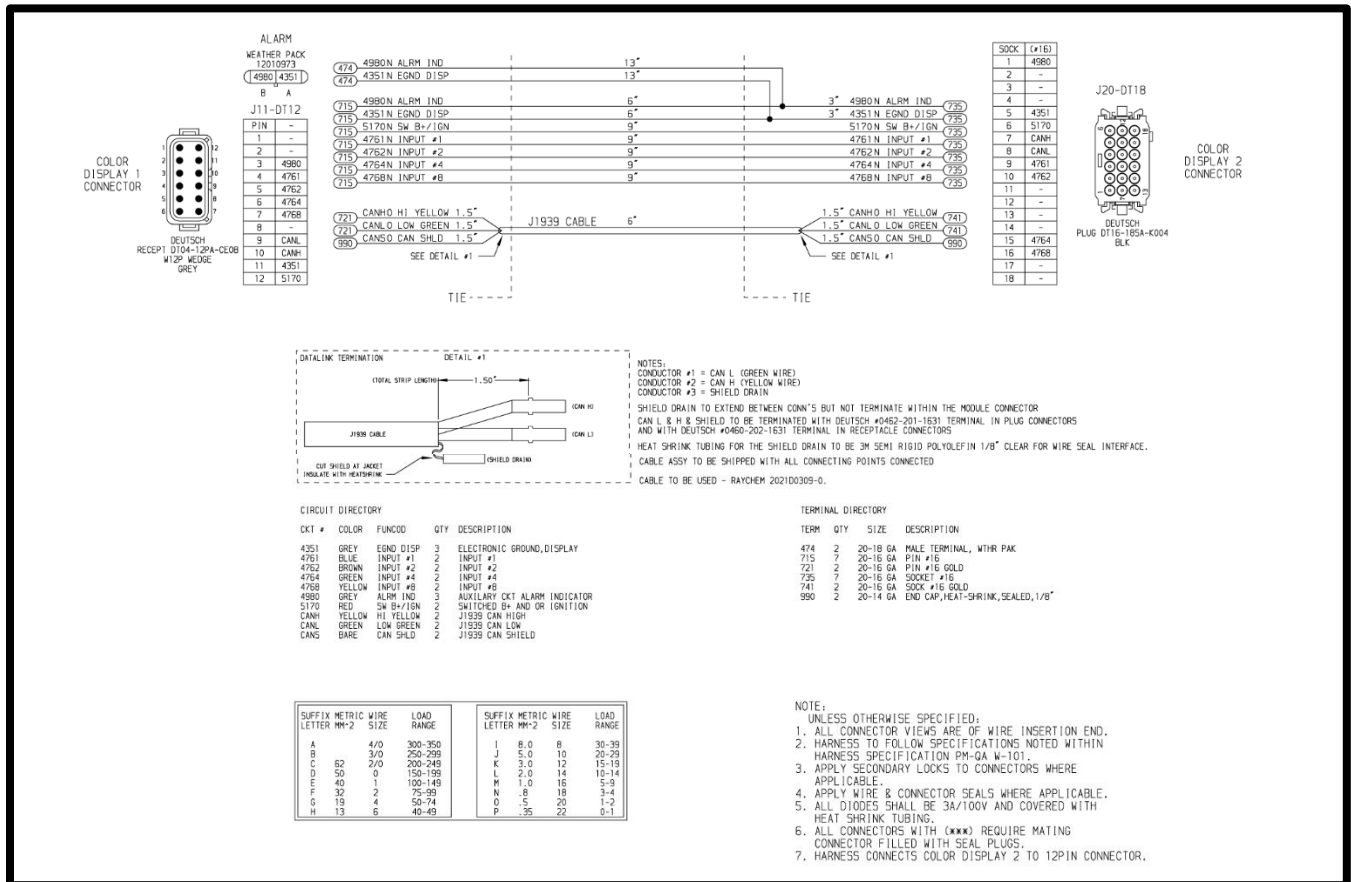


Figure 10

If any additional support is needed, please open a technical support incident on Pierceparts.com.

PARTS BULLETIN #273.13

Revision Log		
Rev. #	Changes	Date
13	Updated part numbers for 60-1162-0001 in BOMs. Clarified ground pins.	11/14/2024