



INSTRUCTION TO SERVICE

ITS: 5829	
SECTION:	286 instrument and switch panels
WRITTEN BY:	Kevin Robinson
SUBJECT:	MIDI – Lower front electrical distribution center board to match opening in access panel

ITS5829

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PROCEDURE:

1. Turn the main battery disconnect switch to the “OFF” position and lock out the switch from inadvertent use.
2. Raise coach in accordance with the New Flyer Service Manual.
3. Open the access panel on the front electronic distribution center (EDC)



Figure 1: Properly installed distribution center shown on right.

4. Unhook harnesses to accommodate the removal of the EDC board.
 - a. From Branch Knot Connector, unhook grounds GND4A, GND4F, and GND1E. Refer to Figure 2 item 1.
 - b. From JPT Connector Frame, unhook JPT Connectors, CFT1, CFT2, CFT3, CFT4, and CRF1, CRF2, CRF3, CRF4. Refer to Figure 2 item 2.
 - c. Unhook Yellow Connector JD1. Refer to Figure 3 item 3.
 - d. From Chassis PCB Board, unhook 3 ground cables at right of board and power cables C3000 and 4547931. Refer to Figure 3 item 4.
 - a. From floor heater PCB board, remove connectors CN1, CN2, CN3, and C1075A, C1075B, C1075C. Refer to Figure 4 item 5.
 - b. From JPT Connector housing bracket, remove all connectors. Refer to Figure 4 item 6.

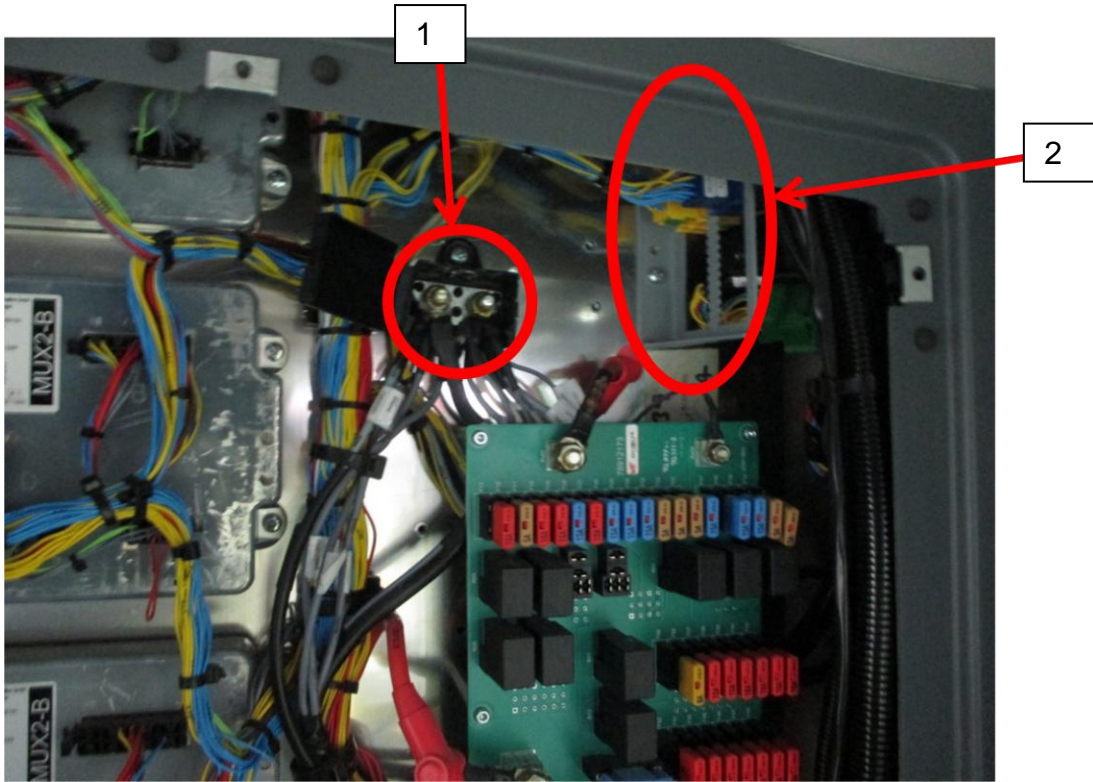


Figure 2: Connection points.

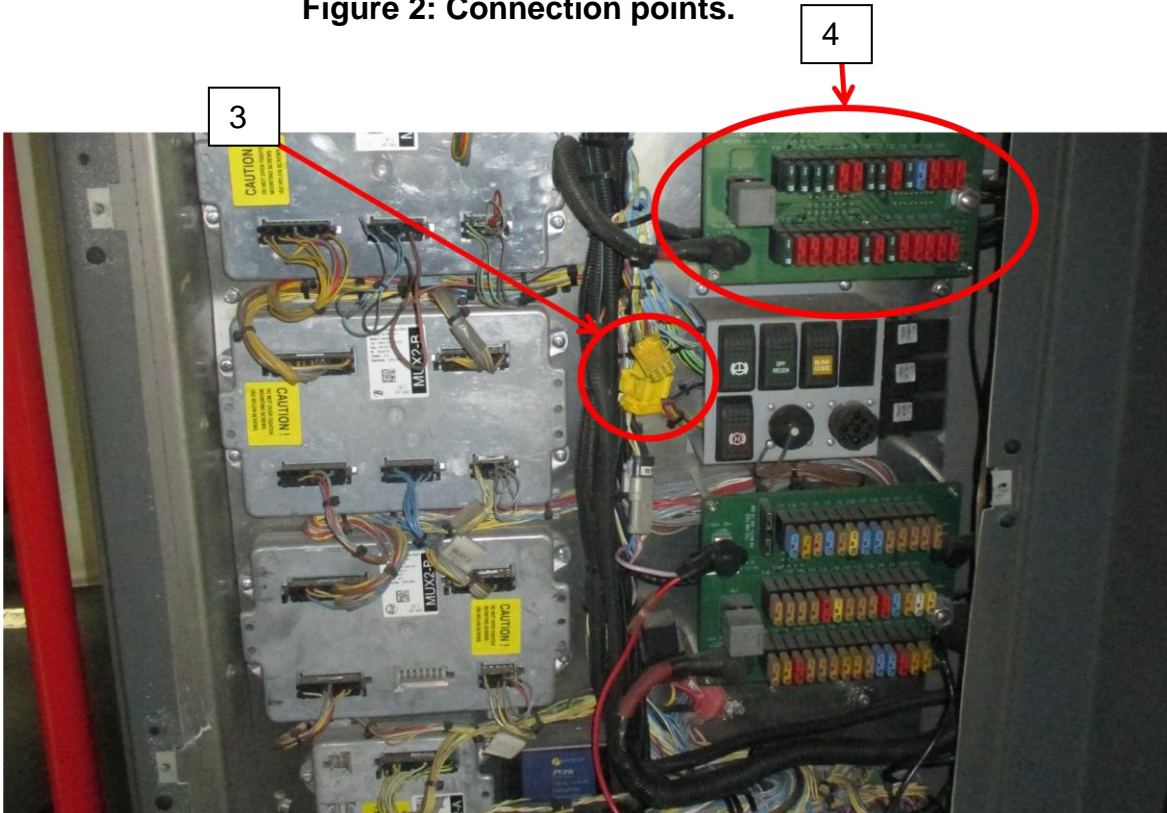


Figure 3: Connection points.

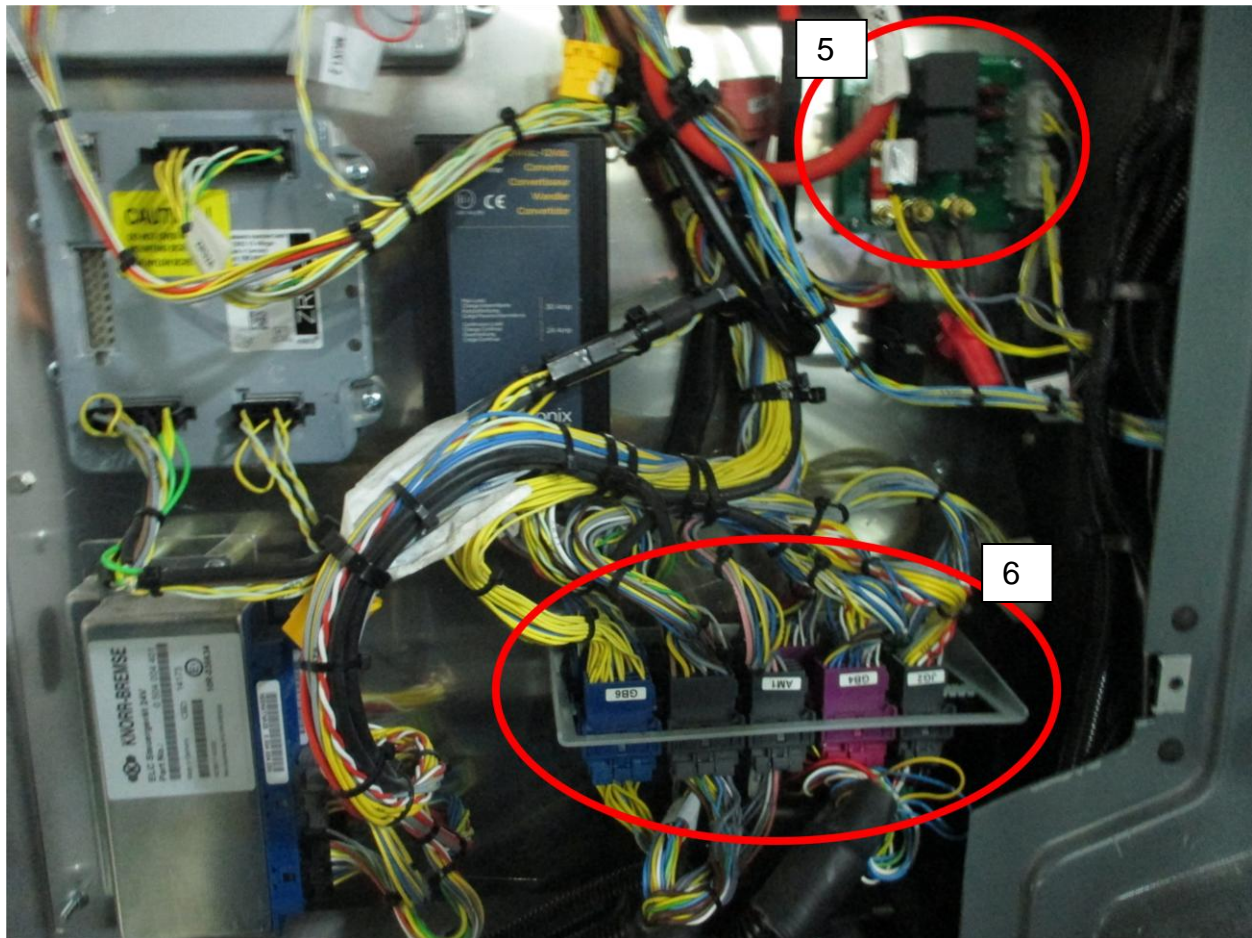


Figure 4: Connection points.

5. Remove the EDC board from its brackets. Mounting hardware will be located at corners and along left hand and right hand sides in ten locations. Retain hardware for re-use.
6. Remove the components shown in Figure 5 from the EDC. Retain hardware for re-use.
 - a. Remove the voltage converter by removing the three screws securing it. Refer to Figure 5 item 7 for item location.
 - b. Remove the two tie wrap mounting bases to the street side of the voltage converter by removing the single screws securing them. Refer to Figure 5 items 8 and 9 for item location.
 - c. Remove the EDC connector bracket by removing the two screws securing it. Refer to Figure 5 item 10 for item location.

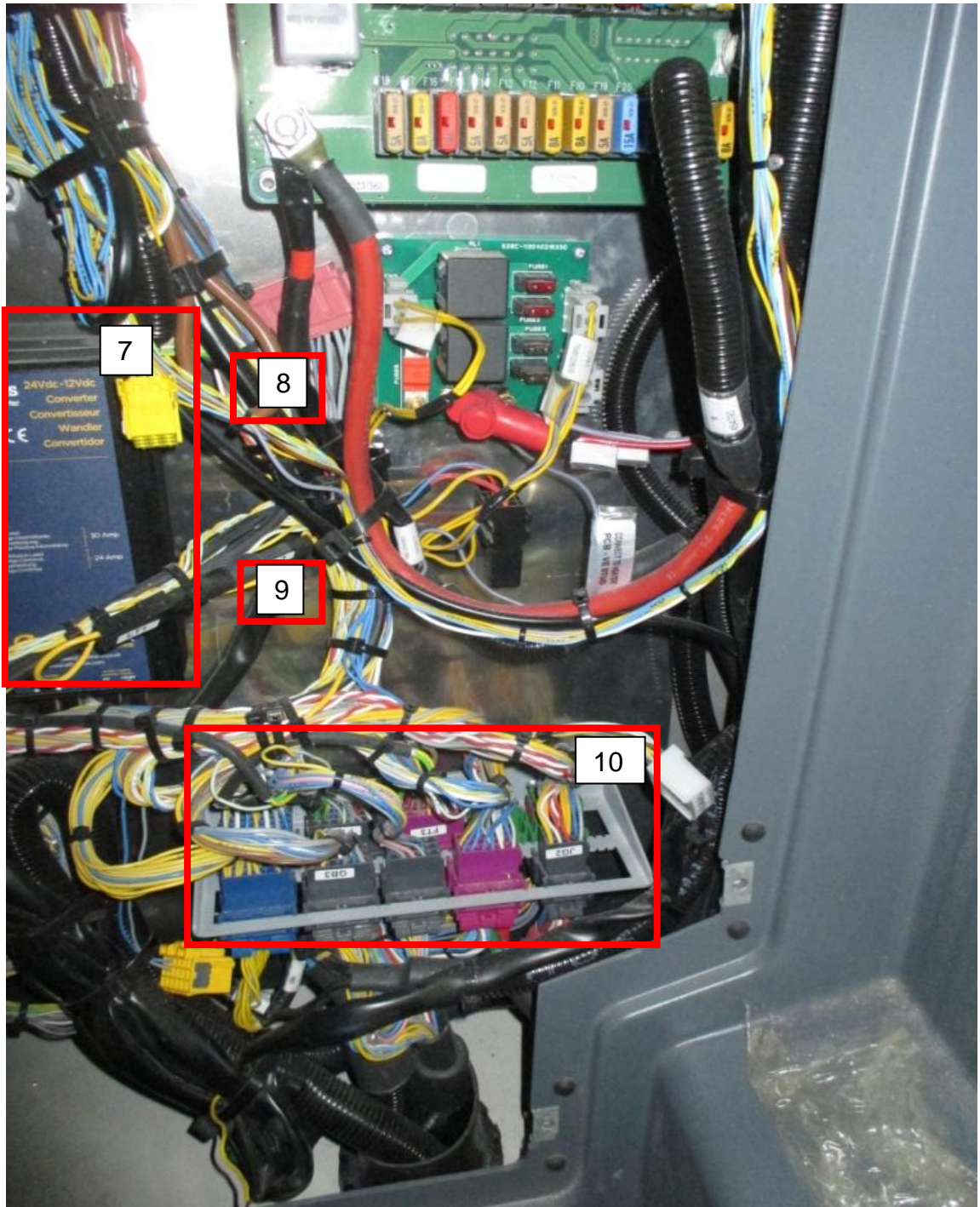


Figure 5: Connection points.



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7. Once components are removed, begin marking and drilling identified points in Figure 6.
 - ☞ **NOTE:** As a result of re-working an old version of this board, there will be interference at point B9 with an insert. This insert is unused. Drill in specified locations outlined in Figure 6.
 - ☞ **NOTE:** Take note of required hardware and drilling dimensions. Hardware needed will include M5 nutserts. B-series holes, located on the sides of the board, only need to be drilled to 8.5 mm.
8. Secure M5 nutserts in the new B series holes on the perimeter of the EDC board. Refer to Figure 6.
9. Replace components removed in previous steps from the EDC board using Turn the main battery disconnect switch to the "ON" position.
10. Replace the EDC board in the bus, securing with the original hardware.
11. Reconnect all harnesses and secure in place with cable ties.
12. Close the access panel on the front electronic distribution center (EDC).
13. Test that the bus is operating properly. Troubleshoot and repair as required.

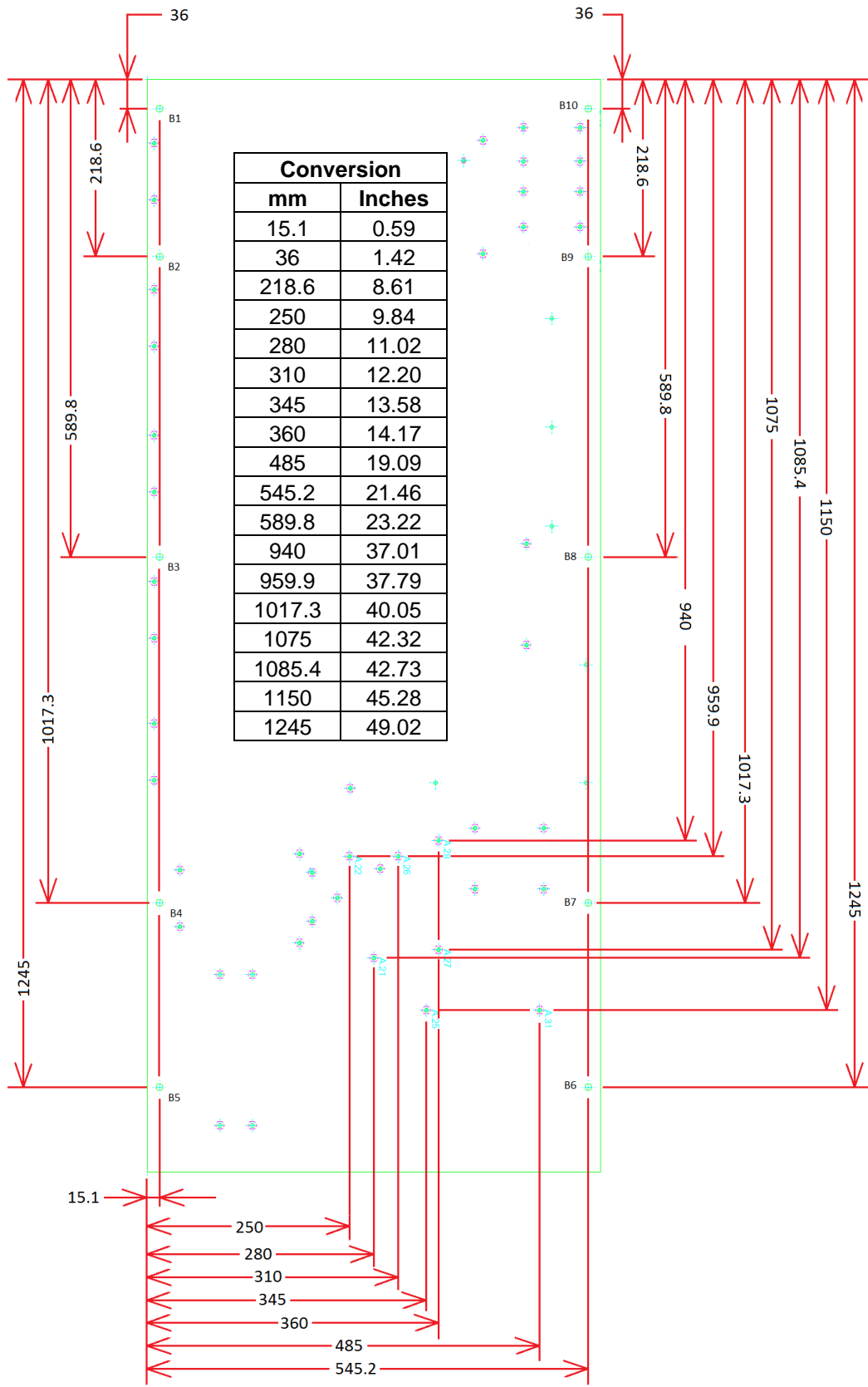


Figure 6: Hole locations in millimeters



LABOUR ESTIMATE

	Operation	Men	Hours	Labour Time M X HR
1	MIDI – Lower front electrical distribution center board to match opening in access panel	1	2.0	2.0

PARTS REQUIRED

Item	Part Number	Description	Qty. per Coach	Units	Notes
1	A-87322108	NUTSERT, ST/ST M5 -09468-00514	7	EA	