

Electrical Wiring Modifications for Type D Footwell Heater

TSB-54-029-TBB

Creation Date: 2026-07-06

Engine or Vehicle Affected:

- ▶ HDX
- ▶ EFX

Described Condition

Thomas Built Buses HDX and EFX models manufactured prior to 2025 could be optionally equipped with a 15,000 BTU footwell heater that is no longer available. TBB part number 66000894 has been superseded by TBB 250843. Minor modifications are required to the new part to ensure backward compatibility with legacy HDX and EFX product lines. The superseded heater utilized two power wires with case grounding. The replacement heater incorporates a three-wire electrical connector. The additional wire provides a dedicated ground circuit and must be connected separately. This procedure involves electrical integration work, including wiring modifications and harness connections. Reference the appropriate wiring diagrams and service information in addition to this bulletin to ensure proper installation.

👉 **Note:** The connector terminal locations are printed on the connector body.

Table 1, Electrical Pinout for the Connector Pigtail on the New Heater Assembly TBB 250843

Gauge	Color	Function	Terminal
14	Red	Low speed (+)	A
12	Orange	High speed (+)	B
12	Black	Ground (-)	C

Table 1, Electrical Pinout for the Connector Pigtail on the New Heater Assembly TBB 250843

Table 2, Parts Table

Part Number	Description	Quantity
TBB 250843	15,000 BTU Footwell Heater	1
TBB 22009377	Butt Connector, 14-16 AWG Blue Insulated	1
TBB 22010377	Butt Connector, 10-12 AWG Blue Insulated	1

Part Number	Description	Quantity
TBB 61201994	Ring Terminal, 10-12 AWG 1/4" stud	1

Table 2, Parts Table

Wiring Modification Procedure

1. ☐ Using wire cutters, cut all three wires as close to the connector as possible to maximize available wire length.
2. ☐ Strip the ends of the red and orange wires.
3. ☐ Connect the two power feed wires (low-speed and high-speed +12 V) to the body harness using new barrel crimp connectors (TBB 22009377 and TBB 22010377).

Note: Use the ground strip in the electrical access panel near the driver's window. Verify all ground connections before cutting the wire to length.

4. ☐ Identify a suitable ground point for the black wire.
5. ☐ Cut the black wire to length and strip the end.
6. ☐ Crimp an appropriate terminal onto the wire, such as TBB 61201994 (10 to 12 gauge, 1/4-inch stud ring terminal).
7. ☐ Use an appropriate fastener to secure the heater ground connection.
8. ☐ No other modifications to the heater assembly are required. After completing the wiring modifications, install the heater as a like-for-like replacement.

Warranty

This is an informational bulletin only. The described condition is a product improvement and is not warrantable.

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