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Coding Information

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Title: Replacing Terminal Pins on the Single Box (DLC) Engine Controller (ECM) Chassis Harness Connector

Applies To: DLC International Engines

This procedure allows a technician to replace broken pins on the chassis harness, 60 pin, ECM connector. This procedure is intended to be used only when one or two pins need replaced. When replacement of a larger number of pins is required, harness replacement is recommended.

PARTS INFORMATION

Parts Information

Part Number	Part Description	Quantity
2501100C1	Terminal and Wire	1

NOTE:

The terminal and wire, Part Number 2501100C1, is included in Parts Kit ZTSE 4436.

SERVICE PROCEDURE



Failure to remove the negative battery cables and the ECM power connector from the batteries in the battery box before working on the ECM connector could cause personal injury as well as damage to truck components.

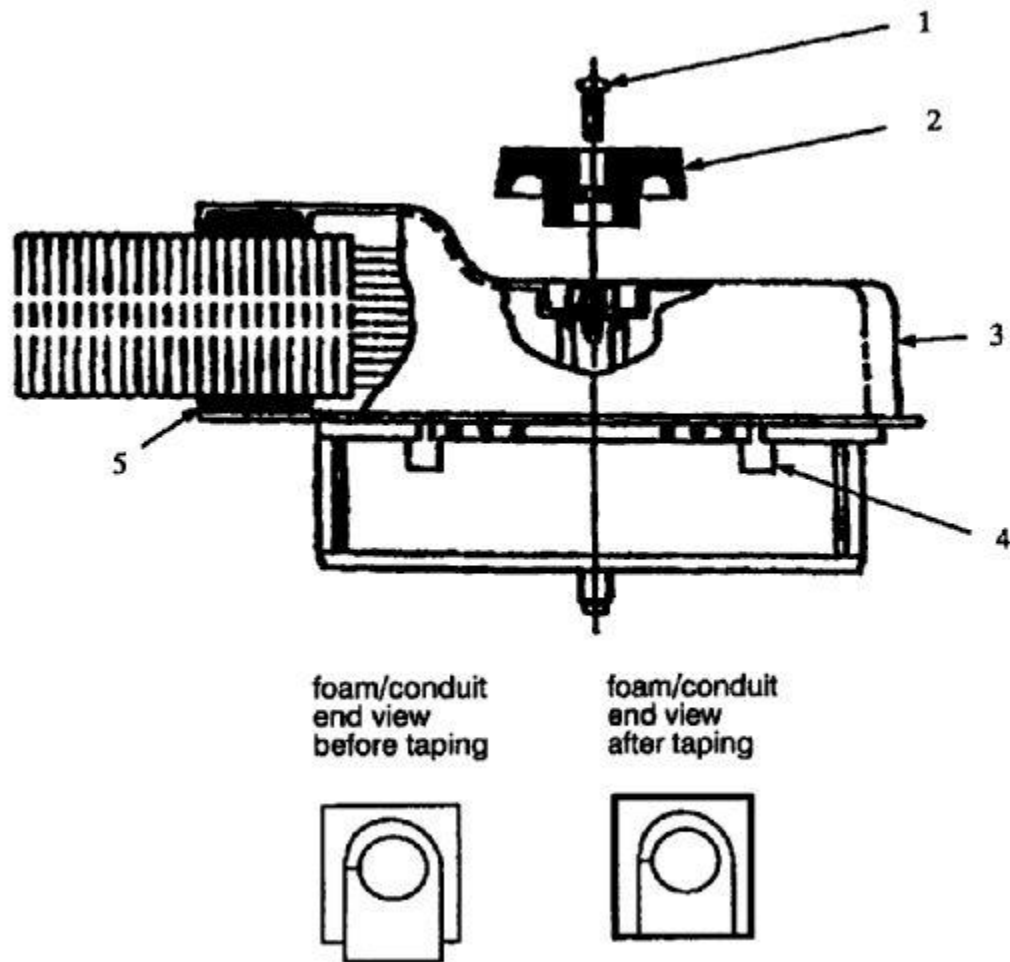


Figure 1.

1. KNOB SCREW
2. KNOB ASSEMBLY
3. WIRE DRESS COVER
4. LOCKING TABS
5. FOAM BLOCK

1. Remove all of the negative battery cables and the ECM power connections from the batteries in the battery box.
2. Remove the chassis harness connector from the ECM.
3. Remove tape from the connector cover end.
4. Remove the knob screw and the knob.

5. Remove the wire dress cover ([Item 3, Figure 1](#)) by prying the four tabs and gently pulling the cover from the connector body.
6. Remove the RED secondary connector lock which retains the pin(s) to be replaced by prying with a small screwdriver at the locations shown ([Figure 2](#)). This will allow access to the connector lock and the pin.

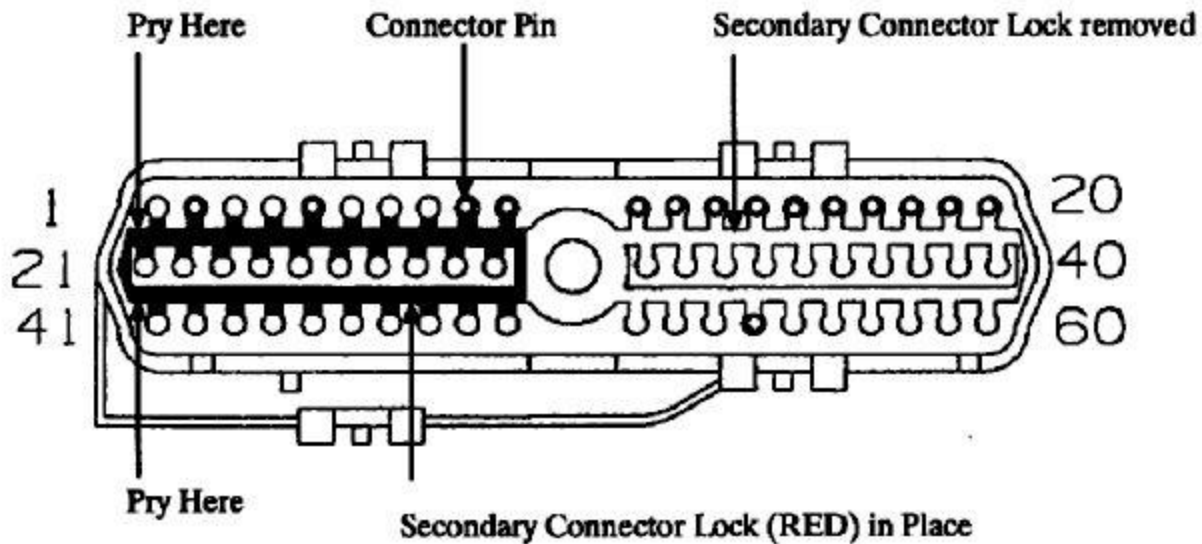


Figure 2.

7. Gently pry and hold the connector lock away from the pin ([Figure 3](#)). Pull the pin through the connector body from the back side of the connector.

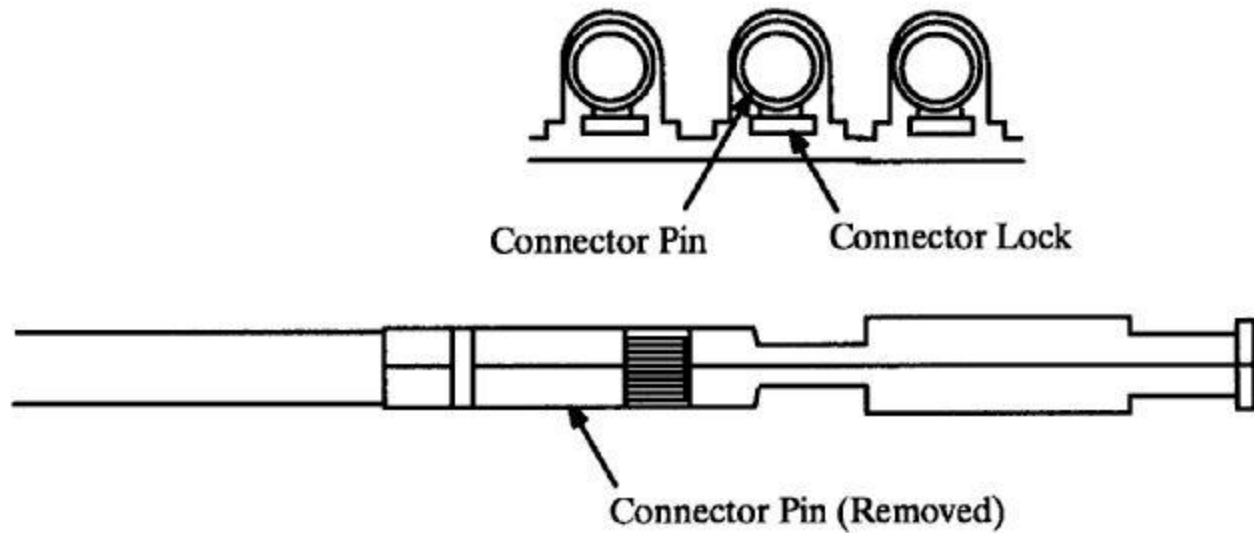


Figure 3.

8. Cut the wire leading to the damaged connector at a point where good wire is available.
9. Cut the wire on terminal butt splice 2501100C1 ([Figure 4](#)) to the appropriate length.

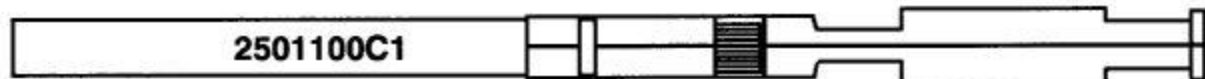


Figure 4.

10. Splice the new terminal and wire to the old wire.
11. Insert the repaired terminal and wire into the proper cavity until it clicks. The pin should lock in place.
12. Insert the secondary connector lock.
13. Re-assemble the connector cover and tightly wrap the end with two layers of tape.
14. Re-assemble the knob and tighten the knob screw to 5 in-lbs. of torque.
15. Reconnect the ECM connector and tighten to 35 in-lbs. of torque.
16. Reconnect all of the negative battery cables and the ECM power connections to the batteries in the battery box.

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