TRAILER BRAKE CONTROL MODULE INSTALLATION

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INSTALLATION

Trailer Brake Control (TBC) Module

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<th>Item</th>
<th>Part Number</th>
<th>Description</th>
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</thead>
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<tr>
<td>1</td>
<td>N807658</td>
<td>Trailer Brake Control (TBC) module bolt (2 required)</td>
</tr>
<tr>
<td>2</td>
<td>—</td>
<td>TBC module connector (part of 14401)</td>
</tr>
<tr>
<td>3</td>
<td>2C006</td>
<td>TBC module</td>
</tr>
</tbody>
</table>
NOTE: The trailer brake system is normally installed at the assembly plant, however, the system can be installed at the dealership but only if the vehicle is equipped with the trailer tow option. This option can be confirmed by verifying the presence of both the 4-pin and the 7-pin connectors at the rear of the vehicle as well as a receiver hitch. If the vehicle is not equipped with these 3 items, then it is not equipped with trailer tow and cannot have the factory Trailer Brake Control (TBC) system installed.

On those vehicles equipped with the trailer tow option, the 14-way electrical connector for the TBC module is attached to the back of the coin bin/storage tray or taped to the 14401 harness behind the driver side knee bolster near the OBDII takeout. If the system is installed at the dealership, the TBC module will be installed in place of the coin bin/storage tray and the Instrument Cluster (IC) must be configured to communicate with the TBC module. Refer to the Wiring Diagrams manual, Cell 95 Trailer/Camper Adapter and Cell 151 Component Location Views for connector and wiring information. Refer to Programmable Parameters in the Diagnosis and Testing portion of this section for information on IC configuration.

Remove the LH center instrument panel trim panel.

NOTE: Vehicles with selector lever in floor console.

1. Apply the parking brake.
2. Place the selector lever in the 1 position.
3. Position the steering wheel downward.
4. Position the front seats forward.
5. Remove the 2 floor console rear bolts.
6. Position the front seats rearward.
7. Remove the LH floor console trim panel pushpin retainer.

8. Remove the LH and RH floor console side trim panels.
   - Pull outward on the floor console side trim panels to release the retaining clips.

9. Remove the instrument panel-to-floor console finish panel.
   - Using a non-marring tool, gently pry outward at the lower corners of the instrument panel-to-floor console finish panel to release the retaining clips.

10. Remove the floor console finish panel.
    - Lift the floor console finish panel upward to release the retaining clips.

11. Remove the 2 floor console-to-instrument panel bolts.

12. Open the floor console storage compartment door.
INSTALLATION (Continued)

13. Remove the selector lever trim panel.
   - Lift the selector lever trim panel upward, at the locations indicated, to release the retaining clips.

14. Remove the 2 floor console front bolts.

15. Position the floor console rearward.

16. Remove the LH center instrument panel trim panel lower bolt.

19. Remove the LH center instrument panel trim panel.
   - Pull the LH center instrument panel trim panel toward the rear of the vehicle to release the retaining clips.
   - If equipped, disconnect the electrical connector.

20. Remove and save the two 7 mm bolts used to secure the coin bin/storage tray.

21. Remove and discard the coin bin/storage tray.

22. Install the TBC.
   - Connect the electrical connector.
   - Install two 7 mm bolts.

23. Install battery charge relay 8L8T-14B192-AA and battery charge fuse 6E5T-14A094-BA, into the power distribution box located under the hood above the fan shroud. (See Relay Diagram, Click Here)

NOTE: Always verify proper operation of the electronic brake controller before towing a trailer. The circuits for the electronic brake controller have already been fused from the engine compartment fuse box. If your trailer functions do not operate properly, then DO NOT operate your vehicle until corrections are made.

NOTE: Always check trailer and vehicle functions (i.e., Stop, Turn Signal, Electric Brakes and Running Lights) before operating your vehicle and trailer.

Always unplug the adapter from the trailer tow harness before unhitching.

If your trailer functions DO NOT operate properly, DO NOT operate your vehicle until corrections are made.

NOTE: 1 Relay (8L8T-14B192-AA) & 1 Fuse (6E5T-14A094-BA) has been provided with the trailer tow kit for installation. This relay and fuse must be installed to the relay box, located in the engine compartment on top of the fan shroud, in order for the trailer tow battery charge system to function properly.

All Vehicles

17. Remove the 2 instrument cluster finish panel screws.

18. Remove the instrument cluster finish panel.
INSTALLATION (Continued)

Reprogram The Instrument Cluster

NOTE: The message center will display TBC FAULT if it is receiving communications from the Trailer Brake Control (TBC) module, but has not been configured for a trailer brake system. If the message center displays TBC FAULT and there are no DTCs stored in the TBC module, follow these steps to verify and/or modify the TBC module programmable parameter in the Instrument Cluster (IC).

24. Identify the vehicle using the normal Integrated Diagnostic System (IDS) process.

25. Select Programming and press the check box.

26. Select Module Programming and press the check box.

27. Select Programmable Parameters and press the check box.

28. Select Personality and press the check box.

29. Follow the on-screen directions.

NOTE: The scan tool will display either EQUIPPED or NOT EQUIPPED to the left of TBC-IC. Highlight TBC-IC.

30. If the IC needs to be configured for a trailer brake system, choose EQUIPPED and press the check box.

31. Carry out a self-test of the TBC module. Refer to the Trailer Brake Control (TBC) Module DTC Chart for any DTCs retrieved.

Assemble Trim

32. Install the LH center instrument panel trim panel.
   - If equipped, connect the electrical connector.
   - Push the LH center instrument panel trim panel toward the front of the vehicle to engage the retaining clips.

33. Install the instrument cluster finish panel.

34. Install the 2 instrument cluster finish panel screws.

35. Install the LH center instrument panel trim panel lower bolt.
   - Tighten to 10 Nm (89 lb-in).

36. Position the floor console forward.

37. Install the 2 floor console front bolts.
   - Tighten to 10 Nm (89 lb-in).

38. Install the selector lever trim panel.
   - Press the selector lever trim panel down to engage the retaining clips.

39. Close the floor console storage compartment door.

40. Install the 2 floor console-to-instrument panel bolts.
   - Tighten to 5 Nm (44 lb-in).

41. Install the floor console finish panel.
   - Push the floor console finish panel down to engage the retaining clips.

42. Install the instrument panel-to-floor console finish panel.

43. Install the LH and RH floor console side trim panels.

44. Install the LH floor console trim panel pushpin retainer.

45. Position the front seats forward.

46. Install the 2 floor console rear bolts.
   - Tighten to 10 Nm (89 lb-in).

47. Position the front seats rearward.

48. Position the steering wheel upward.

49. Place the selector lever in the Park position.

50. Release the parking brake.

Troubleshooting

51. For Troubleshooting, Refer to Ford Workshop Manual (WSM), Section 206-10 Diagnosis and Testing.
52. For Wiring Diagram(s), Refer to Ford WSM Wiring Diagrams Section, Cell 95-1.
SEE VIEW "A"

**Front of Vehicle**

**Avant De Vehicule**

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**9**

**6E5T-14A094-BA TRAILER TOW BATTERY CHARGE RELAY**

**8L8T-14B192-AA TRAILER TOW BATTERY CHARGE RELAY**

**PDB-PIA 12A581 WIR ASY**

**6E5T-14A094-BA TRAILER TOW BATTERY CHARGE FUSE**

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