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TRAILER BRAKE CONTROL MODULE INSTALLATION

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  Trailer Brake Control (TBC) Module

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INSTALLATION

Trailer Brake Control (TBC) Module - F150

Special Tool(s)

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Vehicle Communication Module (VCM) and Integrated Diagnostic System (IDS) software with appropriate hardware, or equivalent scan tool

NOTE:
The Instrument Cluster (IC) must be programmed using IDS to complete the installation and to ensure the IC recognizes the vehicle is now TBC equipped.

Trailer Brake Control Module (TBC) Installation

1. Remove the center LH Instrument Panel (IP) finish panel. For additional information, refer to Workshop Manual (WSM) Section 501-12.

2. Remove the IP storage bin.
   1. Disengage the two clips on the top of the storage bin that retain it into the IP.
   2. Remove the storage bin from the IP and disconnect the trailer control harness electrical connector.
3. Connect the trailer control harness electrical and install the new TBC module.

4. Install the center LH IP finish panel. For additional information, refer to WSM Section 501-12.
Reprogram the Instrument Cluster

⚠️ CAUTION:
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.

⚠️ CAUTION:
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:
The message center will display TBC FAULT if it is receiving communications from the 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 IC.

5. Connect the IDS to the vehicle and start a new session.
6. Select Programming and press the check box.
7. Select Module Programming and press the check box.
8. Select Programmable Parameters and press the check box.
9. Select Personality and press the check box.
10. Follow the on-screen directions.

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

11. Set Trailer Brake Controller Gain setting IC, choose "ENABLE" and press the check box.
12. Carry out a self-test of the TBC module. Refer to the TBC Module DTC Chart for any DTCs retrieved.

Troubleshooting

13. For troubleshooting, Refer to Ford WSM for normal diagnostic procedures.