

CERTAIN 2011 THROUGH 2013 MODEL YEAR F-150, EXPEDITION, NAVIGATOR, AND MUSTANG VEHICLES EQUIPPED WITH A 6R80 AUTOMATIC TRANSMISSION — TRANSMISSION RANGE SENSOR INSPECTION AND/OR REPLACEMENT

OVERVIEW

A tool that allows for inspection to identify a faulty Transmission Range Sensor (TRS), which is a part of the transmission lead frame, will be provided to all dealers by approximately June 25, 2012. The dealer bulletin and technical instructions for this Field Service Action will be updated with a supplement to include an inspection procedure that determines if the transmission lead frame requires replacement. Until that time, all lead frames will require replacement.

Due to limited parts and special service tool availability at the initial release of this program, dealers are to call the Special Service Support Center for a transmission lead frame replacement authorization.

It is important to:

- Correct any customer vehicles that exhibit a concern.
- Correct any vehicles in inventory before delivery to a customer.

NOTE: These are temporary actions until sufficient parts and a special service tool are available.

REPAIR PROCEDURE

NOTE: Do not proceed with this procedure until parts are ordered and received. This will prevent excessive transmission fluid loss while the main control assembly is removed.

1. With the vehicle in NEUTRAL, position it on a hoist. For additional information, refer to Workshop Manual (WSM), Section 100-02.
2. Remove the transmission fluid fill plug. See Figure 1.

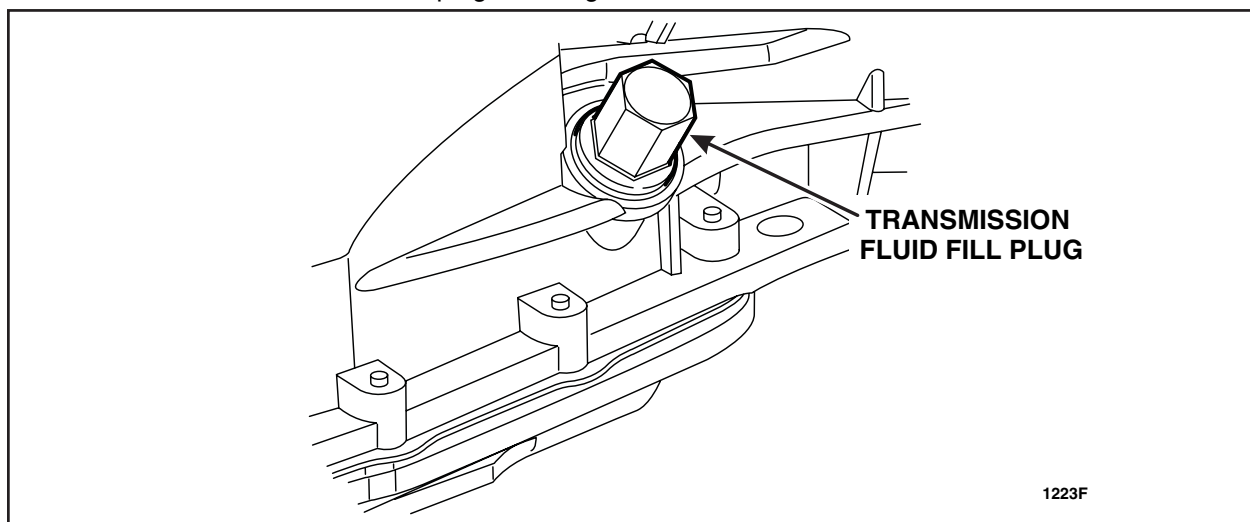


FIGURE 1



NOTICE: All recovered transmission fluid should be placed in clean suitable containers to prevent fluid contamination. Any tools or machines used for storage or transfer of other fluids must be purged and cleaned before use.

NOTE: Unless the transmission fluid is contaminated, it is to be reused for this repair.

NOTE: During disassembly, ensure that a clean drain pan is placed under the transmission in order to recover the maximum amount of transmission fluid possible.

3. Using a suitable clean fluid transfer pump such as 307-D465, MIT7201 or an equivalent commercially available tool, recover the transmission fluid through the transmission fill hole.

NOTE: Depending on the length of time since the vehicle was last started, approximately 5 to 8 quarts of transmission fluid may be recovered after the transmission fluid pan, fluid filter, and main control assembly are removed.

4. Remove the main control assembly. For additional information, refer to WSM, Section 307-01.

5. Remove the 6 long bolts from the molded lead frame. See Figure 2.

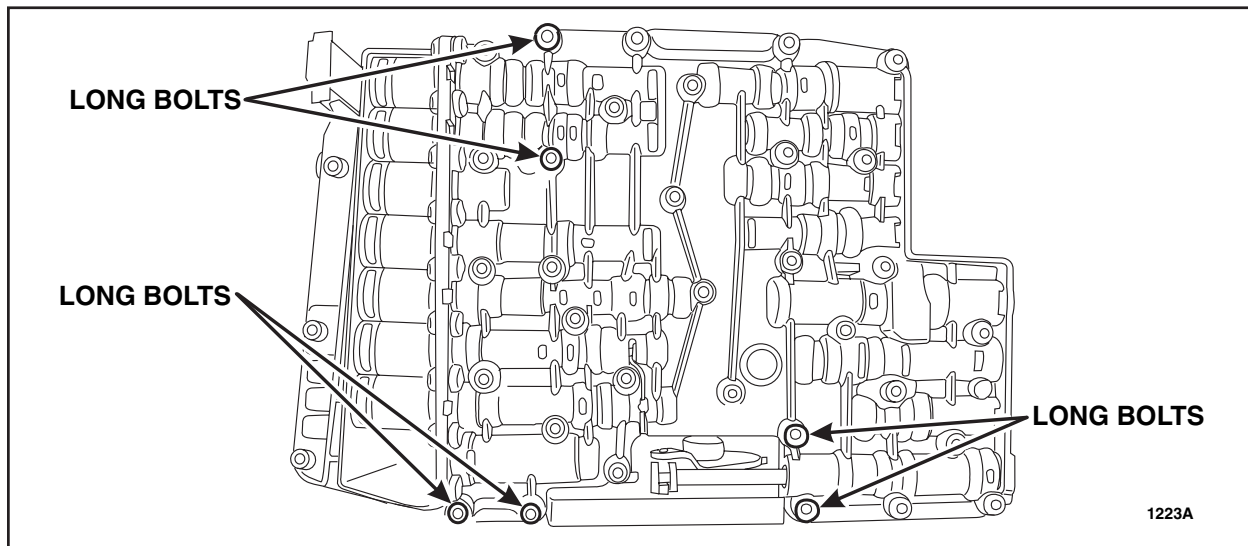


FIGURE 2



6. Carefully separate the molded lead frame from the main control assembly. See Figure 3.

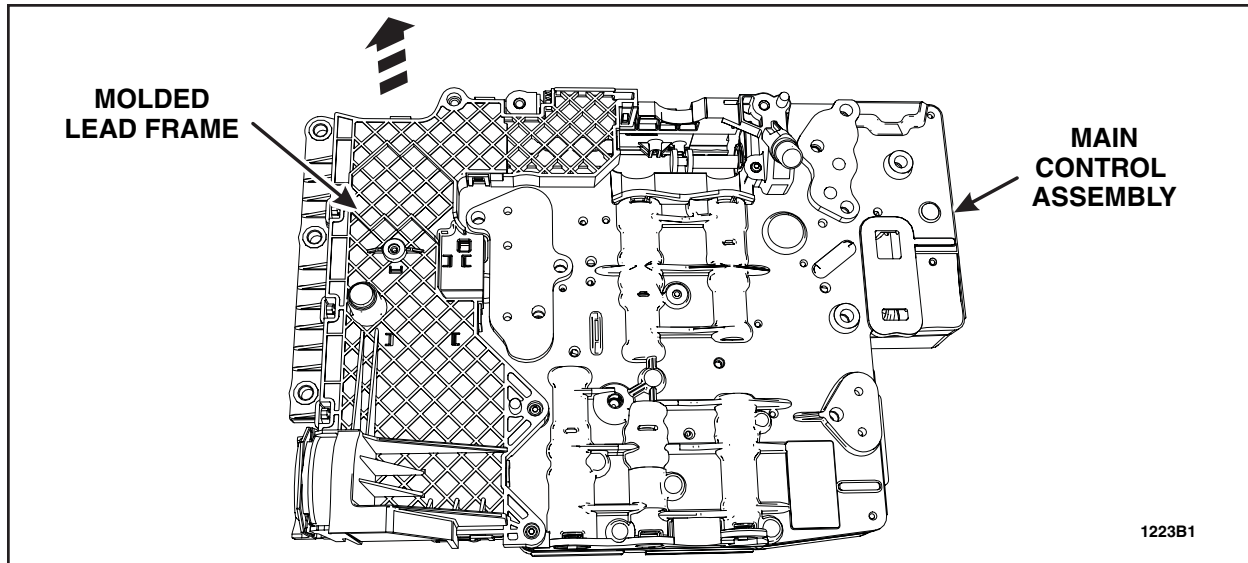


FIGURE 3

7. **NOTE:** The TRS pin must be aligned with the manual control valve during installation.

Position the *new* molded lead frame on the main control assembly. See Figure 4.

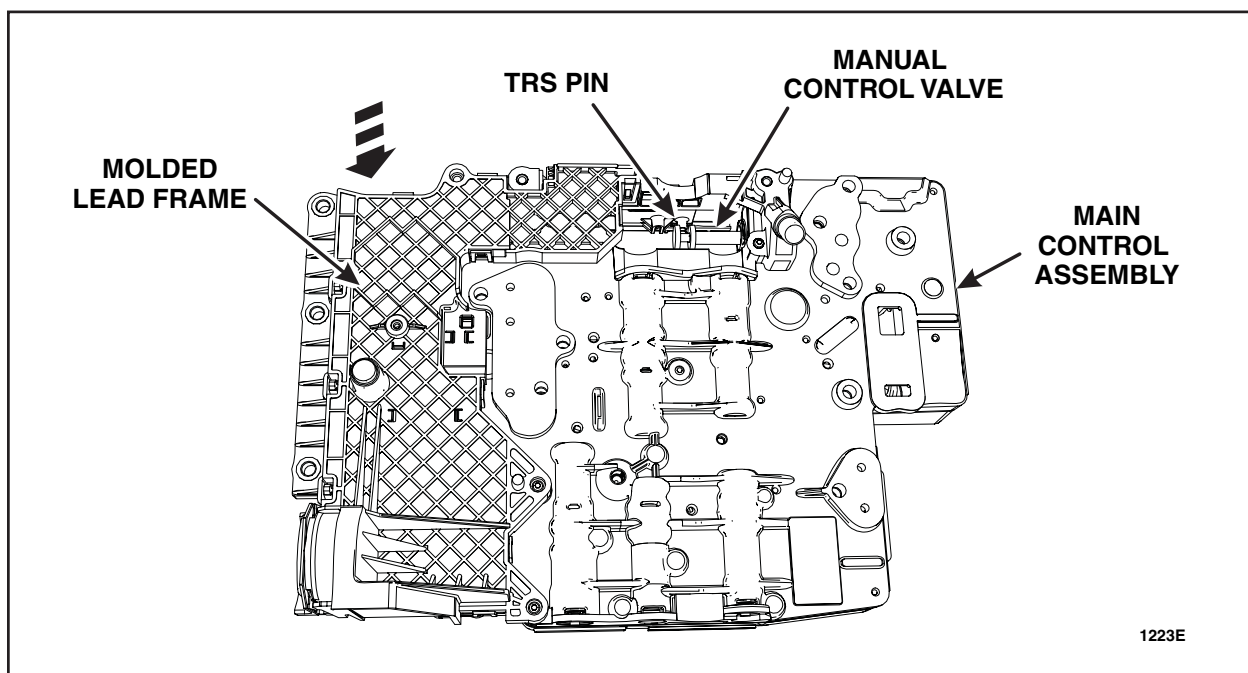


FIGURE 4



8. Install the 6 long bolts to the *new* molded lead frame. See Figure 5.

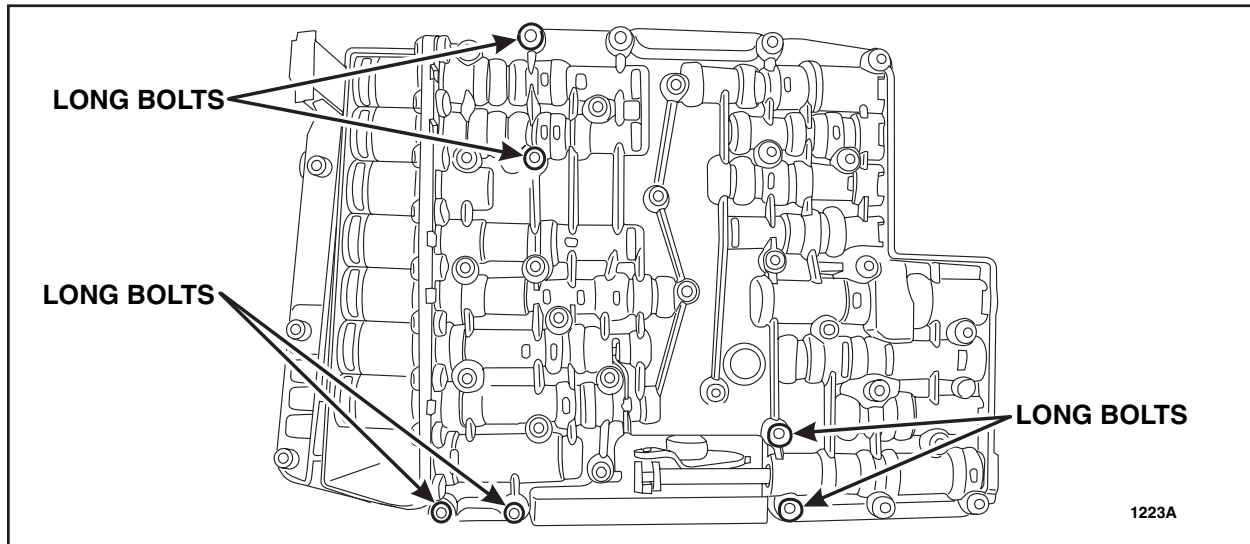


FIGURE 5

9. Tighten the long bolts to 6 Nm (53 lb-in) in the sequence shown. See Figure 6.

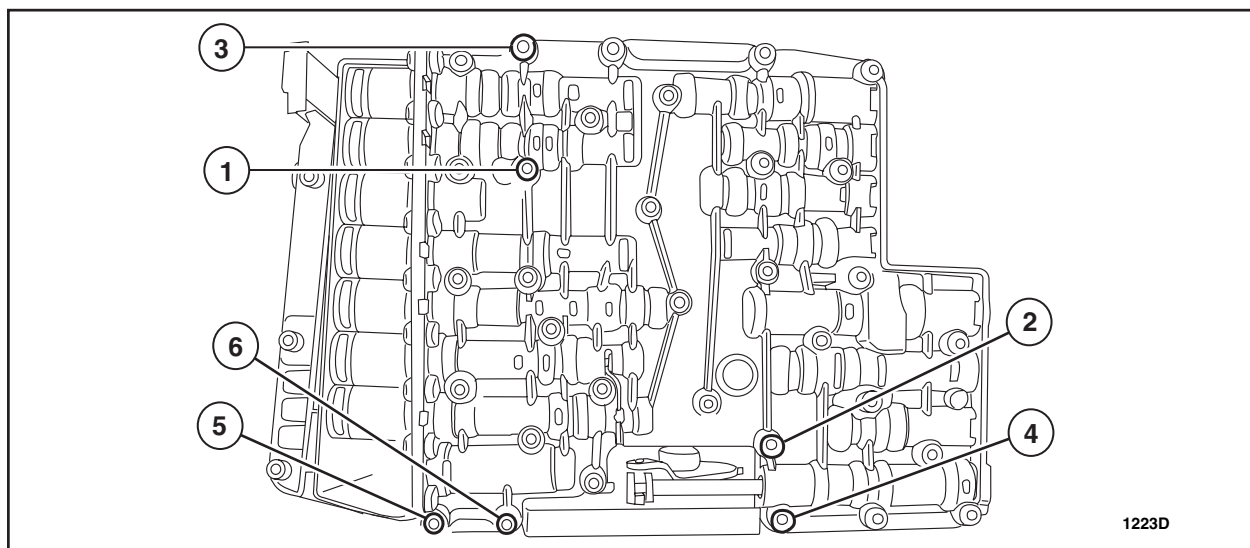


FIGURE 6

10. Install the main control assembly. For additional information, refer to WSM, Section 307-01.

11. Return vehicle to customer.

