CERTAIN 2011-2012 MODEL YEAR F-150 AND 2012 MODEL YEAR EXPEDITION, NAVIGATOR AND MUSTANG VEHICLES EQUIPPED WITH A 6R80 TRANSMISSION — MOLDED LEADFRAME EXTENDED COVERAGE

OVERVIEW
In some of the affected vehicles, an intermittent output speed sensor (OSS) failure may result in an illuminated malfunction indicator light (MIL) and/or wrench light in the instrument cluster with diagnostic trouble codes (DTCs) P0720, P0722, P0731 and/or P1500 stored in the powertrain control module (PCM). Additionally, some vehicles may experience an unintended downshift into first gear. If an affected vehicle exhibits this condition, dealers are to replace the molded leadframe.

SERVICE PROCEDURE
1. Are either of the following statements true?
   - The MIL and/or Wrench Light is illuminated in the instrument cluster with DTCs P0720, P0722, P0731 and/or P1500 stored in the PCM.
   - The customer reports an intermittent unintended downshift into first gear.
     NO – This program does not apply.
     YES – Replace the molded leadframe. Proceed to Step 2.

   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.

2. Remove the main control assembly. Please follow the WSM procedure in Section 307-01, In-Vehicle Repair.

3. Remove the six long bolts from the molded leadframe. See Figure 1.

   ![Figure 1](1223A)
4. Carefully separate the molded leadframe from the main control assembly. See Figure 2.

![Figure 2](image1)

5. Install the new molded leadframe on the main control assembly. See Figure 3.

**NOTE:** The transmission range (TR) sensor pin must be aligned with the manual control valve during installation.

![Figure 3](image2)
6. Install the six long bolts to the new molded leadframe. See Figure 4.

![FIGURE 4]

7. Tighten the long bolts to 53 lb.in (6 Nm) in the sequence shown. See Figure 5.

![FIGURE 5]

8. Install the main control assembly and reassemble the vehicle. Please follow the WSM procedure in Section 307-01, In-Vehicle Repair.