

**3.7L ENGINE AND 6R80 TRANSMISSION—WHINE NOISE ON ACCELERATION—BUILT ON 4/1/2012 AND THROUGH 7/1/2012**

**TSB 13-6-4**

**FORD:**  
2013 Mustang  
2012 F-150

**ISSUE**

Some 2013 Mustang and 2012 F-150 vehicles built on 4/1/2012 and through 7/1/2012 equipped a 3.7L engine and 6R80 transmission may exhibit a whining noise from the transmission torque converter housing area during acceleration. The noise will go away after converter clutch locks up.

**ACTION**

Follow the Service Procedure steps to correct the condition.

**SERVICE PROCEDURE**

1. Is the Mustang or F-150 built on 4/1/2012 and through 7/1/2012?
  - a. Yes - proceed to Step 2.
  - b. No - this article does not apply. Refer to Workshop Manual, Section 100-04 for normal diagnostics.
2. Road test vehicle. Does the transmission exhibit a whining noise from the torque converter housing area during acceleration, which goes away after converter clutch locks up?
  - a. Yes - proceed to Step 3.
  - b. No - this article does not apply. Refer to Workshop Manual, Section 100-04 for normal diagnostics.
3. With the vehicle in neutral, position it on a hoist. For additional information, refer Workshop Manual (WSM), Section 100-02.
4. Remove the transmission. Refer to WSM, Section 307-01.

- a. It is not necessary to drain the transmission fluid or remove the transfer case from the transmission on 4X4 models for this procedure.
5. Remove torque converter using Essential Special Service Tool (ESST) 307-091.
6. Remove input shaft oil seal using ESST 308-375 and 100-001. Discard the seal.
7. Install new front pump seal using ESST 307-556.
8. Install new torque converter using ESST 307-091.
9. Install transmission. Refer to WSM, Section 307-01.
10. Fill transmission with fluid. Refer to WSM, Section 307-01.

PART NUMBER	PART NAME
BR3Z-7902-C	Torque Converter
6L2Z-7A248-AA	Seal - Converter Pump
W715131-S437	Transmission Cooler Line Bolt (Mustang)
W715798-S437	Transmission Cooler Line Bolt (F-150)
XT-10-QLV	MERCON® LV Automatic Transmission Fluid
7L1Z-7J227-A	O-ring - Cooler Line (4 Req)
W714689-S437	Torque Converter Nut (4 Req)
N800594-S100	Drive Shaft Bolt -Mustand/ F-150 (8 Req) 4WD (4 Req)
W713078-S439	Mid Shaft Bearing Bracket Bolt (2 Req)
7L1Z-4B496-D	Front Drive Shaft Bolt - 4WD Vehicles (3 Packages Req))
7L1Z-4B496-C	Front Drive Shaft Bolt - 4WD Vehicles (2 Packages Req)
W520514-S440	Exhaust Nut - F-150 (4 Req)

**NOTE:** The information in Technical Service Bulletins is intended for use by trained, professional technicians with the knowledge, tools, and equipment to do the job properly and safely. It informs these technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by "do-it-yourselfers". Do not assume that a condition described affects your car or truck. Contact a Ford or Lincoln dealership to determine whether the Bulletin applies to your vehicle. Warranty Policy and Extended Service Plan documentation determine Warranty and/or Extended Service Plan coverage unless stated otherwise in the TSB article. The information in this Technical Service Bulletin (TSB) was current at the time of printing. Ford Motor Company reserves the right to supercede this information with updates. The most recent information is available through Ford Motor Company's on-line technical resources.

## TSB 13-6-4 (Continued)

**WARRANTY STATUS:** Eligible Under Provisions Of New Vehicle Limited Warranty Coverage Warranty/ESP coverage limits/policies/prior approvals are not altered by a TSB. Warranty/ESP coverage limits are determined by the identified causal part and verified using the OASIS part coverage tool.

130604A 2013 F-150 4X4 3.7L DOHC 6R80 (Auto Transmission): Replace The Front Pump Seal And Torque Converter Includes Time To Remove And Install Transmission And Transfer Case (Do Not Use With Any Other Labor Operations) 5.5 Hrs.

### DEALER CODING

OPERATION	DESCRIPTION	TIME
130604A	2013 Mustang 3.7L DOHC 6R80 (Auto Transmission): Replace The Front Pump Seal And Torque Converter Includes Time To Remove And Install Transmission (Do Not Use With Any Other Labor Operations)	3.8 Hrs.
130604A	2013 F-150 4X2 3.7L DOHC 6R80 (Auto Transmission): Replace The Front Pump Seal And Torque Converter Includes Time To Remove And Install Transmission (Do Not Use With Any Other Labor Operations)	4.8 Hrs.

BASIC PART NO.  
7902

CONDITION  
CODE  
D4