

6R80 TRANSMISSIONS—FLUID LEAK FROM BELL HOUSING—BUILT ON OR AFTER 4/15/2011 THROUGH 6/8/2011

TSB 12-11-14

FORD:

2012 Mustang
2011 Expedition, F-150

LINCOLN:

2011 Navigator

The article supersedes TSB **11-8-4** to update the Part List.

ISSUE

Some 2011 F-150, Expedition, Navigator and 2012 Mustang vehicles equipped with the 6R80 automatic transmission and built on or after 4/15/2011 through 6/8/2011 may exhibit a transmission fluid leak from the bell housing area.

ACTION

Follow the Service Procedure steps to correct the condition.

SERVICE PROCEDURE

1. With the vehicle in neutral, position it on a hoist and raise vehicle. For additional information, refer to Workshop Manual (WSM), Section 100-02.
2. Remove the transmission fluid pan to check the condition of the fluid.
 - a. If the fluid smells burnt or very dark in color discontinue with this article, Refer to WSM, Section 307-01 diagnosis by symptoms for normal diagnostics.
 - b. If transmission fluid is red and does not smell burnt proceed to Step 3.
3. Remove the transmission, Refer to WSM, Section 307-01.
4. Mount the transmission to holding fixture essential special service tool (ESST) 307-003.
5. Using ESST 307-091, remove the torque converter.
6. Remove transmission fluid pan.
7. Remove transmission fluid filter.

8. Press the release tab and lift up on the main control bulkhead electrical connector retainer to release the bulkhead electrical connector shell. (Figure 1)

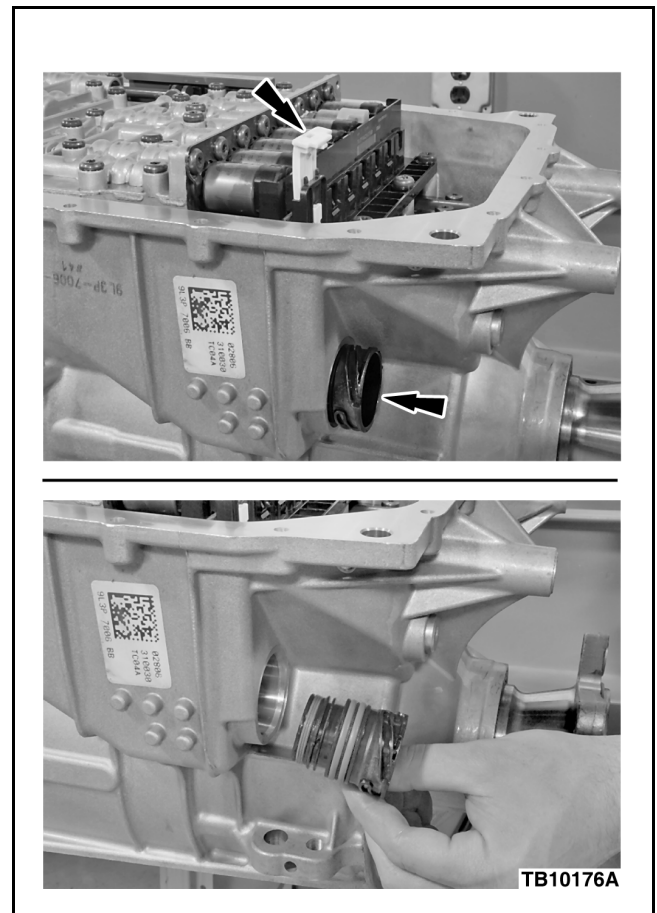


Figure 1 - Article 12-11-14

9. With the transmission bulkhead electrical connector retainer released, pull the outer shell of the bulkhead electrical connector out of the transmission.
10. Remove the 11 main control fasteners.

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 supersede this information with updates. The most recent information is available through Ford Motor Company's on-line technical resources.

TSB 12-11-14 (Continued)

11. Remove the main control assembly.
 - a. Thermal valve assembly may fall out.
12. Remove the front pump adapter seal. (Figure 2)

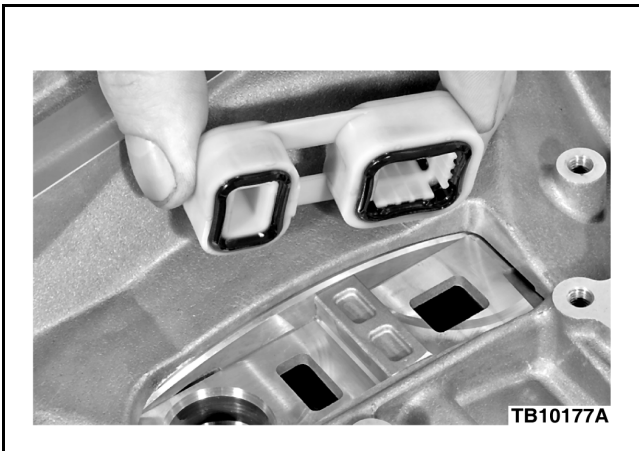


Figure 2 - Article 12-11-14

13. Remove and discard the 13 front pump-to-case bolts and washers.
14. Using ESST 307-553 and 100-001, remove pump from case.
 - a. The selective shim may come out while removing the front pump.
15. Place pump assembly on bench and note orientation of pump body to pump assembly to aid in reassembly.
16. Remove and discard the outer pump assembly O-ring seal.
17. Loosen all 11 pump body-to-pump assembly fasteners and carefully push down on the loosened fasteners to remove pump and gear assembly and discard. (Figure 3)

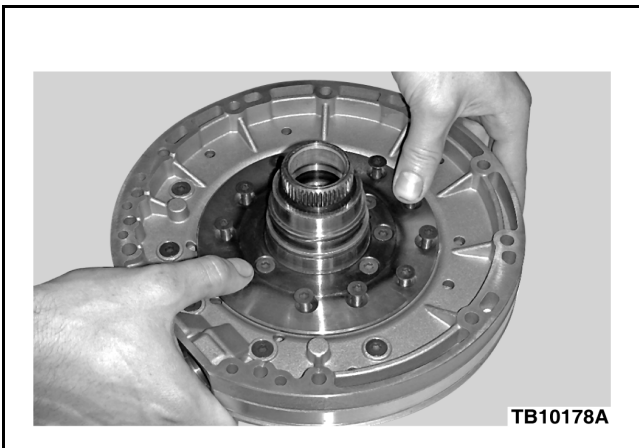


Figure 3 - Article 12-11-14

- a. Verify both inner and outer gears have the Dot facing up on the new pump body and gears. Use care to keep pump gears from falling out of pump body. (Figure 4)

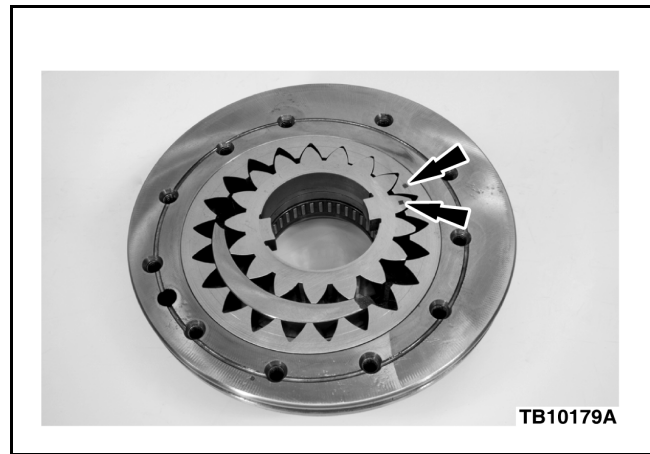


Figure 4 - Article 12-11-14

18. Lube new pump body and gear assembly outer pump body O-ring with clean transmission fluid and align new pump body and gear assembly to pump plate and stator and carefully install into the pump plate and stator. (Figure 5)

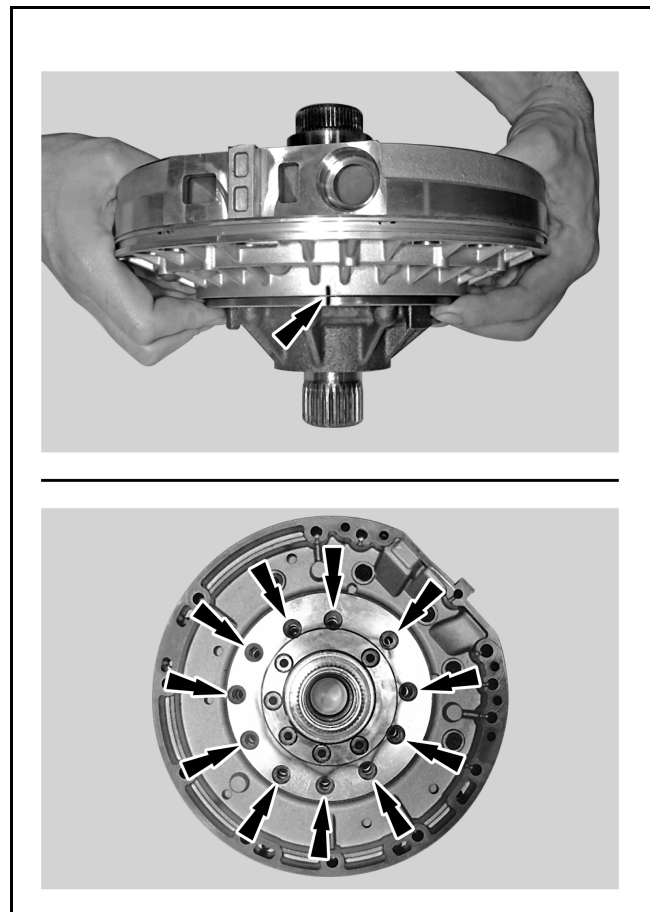


Figure 5 - Article 12-11-14

TSB 12-11-14 (Continued)

19. Install the pump plate assembly-to-front pump body bolts. Tighten to 15 N•m (133 lb-in).
20. Inspect pump stator seals replace if damaged. (Figure 6)



Figure 6 - Article 12-11-14

21. Install a new pump body outer O-ring seal. (Figure 7)

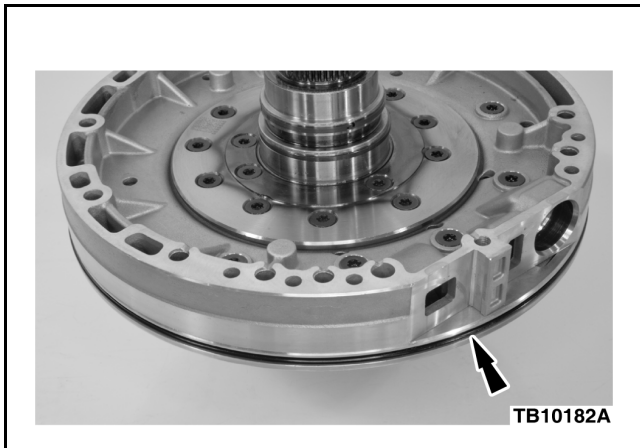


Figure 7 - Article 12-11-14

22. Reinstall the selective shim
23. Lubricate the transmission case pump bore with petroleum jelly.
24. Using ESST 307-553, position the pump assembly in the case and rotate the pump to insert the pump splines into the front planetary sun gear. Rotate the pump to align the pump-to-case bolts and push the pump into the case.
25. Install 13 new front pump-to-case bolts and washers. Tighten in a crisscross pattern. Tighten to 10 N•m (89 lb-in).
26. Install the front pump adapter seal.

27. Add 11.8 cl (4 oz.) of clean transmission fluid through filter inlet to prime the pump.
28. Install the thermal bypass valve into the case. (Figure 8)



Figure 8 - Article 12-11-14

- a. Verify clutch feed tubes are positioned correctly. (Figure 9)

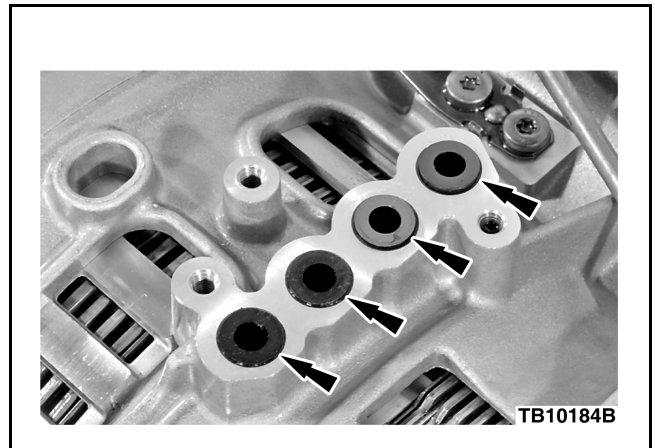


Figure 9 - Article 12-11-14

29. Align the manual valve with manual valve linkage and install the main control.
30. Install the 11 main control assembly bolts and tighten to 8 N•m (71 lb-in).
31. With the release tab up and unlocked, push the outer shell of the bulkhead electrical connector into the transmission. Make sure the bulkhead connector is fully seated into the molded lead frame.
32. Press down on the tab and lock the outer shell of the bulkhead electrical connector in place. Make sure the locking tab is securely locked.
33. Install transmission fluid filter.

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- a. The fluid pan gasket can be reused if not damaged.
34. Install the transmission fluid pan. Tighten in a crisscross pattern. Tighten to 12 N•m (106 lb-in).
35. Install the torque converter.
36. Install the transmission, Refer to WSM, Section 307-01.

121114A 2011 Navigator 4X4: 8.2 Hrs.
Inspect, Replace The Transmission Pump Gear Assembly Following The Service Procedure (Do Not Use With Any Other Labor Operations)

121114A 2011 F-150 4X4 3.5L 7.7 Hrs.
GTDI: Inspect, Replace The Transmission Pump Gear Assembly Following The Service Procedure (Do Not Use With Any Other Labor Operations)

121114A 2011 F-150 4X4 3.7L 7.7 Hrs.
DOHC: Inspect, Replace The Transmission Pump Gear Assembly Following The Service Procedure (Do Not Use With Any Other Labor Operations)

121114A 2011 F-150 4X4 5.0L 8.1 Hrs.
TIVCT: Inspect, Replace The Transmission Pump Gear Assembly Following The Service Procedure (Do Not Use With Any Other Labor Operations)

121114A 2011 F-150 4X4 6.2L 7.8 Hrs.
OHC: Inspect, Replace The Transmission Pump Gear Assembly Following The Service Procedure (Do Not Use With Any Other Labor Operations)

121114A 2012 Mustang: Inspect, Replace The Transmission Pump Gear Assembly Following The Service Procedure (Do Not Use With Any Other Labor Operations)

121114A 2011 Expedition And Navigator 4X2: Inspect, Replace The Transmission Pump Gear Assembly Following The Service Procedure (Do Not Use With Any Other Labor Operations)

PART NUMBER	PART NAME
BL3Z-7A104-E	Pump Kit - F-150/Expedition/Navigator (4X4)
BL3Z-7A104-B	Pump Kit - F-150/Expedition/Navigator (4X2)
BL3Z-7A104-C	Pump Kit - Mustang (V-6)
BL3Z-7A104-D	Pump Kit - Mustang (V-8)
XT-10-QLV	Motorcraft® Mercon® LV Automatic Transmission Fluid

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.

OPERATION	DESCRIPTION	TIME
121114A	2011 F-150 4X2 5.0L TIVCT: Inspect, Replace The Transmission Pump Gear Assembly Following The Service Procedure (Do Not Use With Any Other Labor Operations)	6.8 Hrs.
121114A	2011 F-150 4X2 6.2L OHC: Inspect, Replace The Transmission Pump Gear Assembly Following The Service Procedure (Do Not Use With Any Other Labor Operations)	6.5 Hrs.
121114A	2011 Expedition 4X4: Inspect, Replace The Transmission Pump Gear Assembly Following The Service Procedure (Do Not Use With Any Other Labor Operations)	8.3 Hrs.

TSB 12-11-14 (Continued)

121114A	2011 F-150 4X2 3.5L GTDI: Inspect, Replace The Transmission Pump Gear Assembly Following The Service Procedure (Do Not Use With Any Other Labor Operations)	6.4 Hrs.
121114A	2011 F-150 4X2 3.7L DOHC: Inspect, Replace The Transmission Pump Gear Assembly Following The Service Procedure (Do Not Use With Any Other Labor Operations)	6.5 Hrs.

DEALER CODING

BASIC PART NO.
7A104

CONDITION
CODE
D8