

SB-10056701-9548

FORD:

2008-2010 E-150, E-250, E-350, F-150

2008-2011 Crown Victoria

LINCOLN:

2008 Mark LT

2008-2011 Town Car

MERCURY:

2008-2011 Grand Marquis

This article supersedes TSB **13-4-23** to update the Service Procedure and Parts List.

ISSUE

A service kit has been released to assist with proper repair of the 4R75E transmission in 2008 Mark LT, 2008-2010 F-150, E-Series, 2008-2011 Crown Victoria, Grand Marquis and Town Car vehicles that exhibit a grinding, whine-type noise, vibration and/or gear slippage while driving, or a loss of reverse resulting from a planetary gear assembly failure.

ACTION

Follow the Service Procedure steps to correct the condition.

SERVICE PROCEDURE

1. Connect the Ford Integrated Diagnostic System (IDS) or equivalent service tool to the data link connector (DLC). Retrieve all diagnostic trouble codes (DTCs) and record.
 - a. The following DTCs may be present: P0733, P0720, P0722, P0731, P1783, P0732, P0734, P0721, P0297, P0781, P0782, P1728, P1715, P1744, P1783, P0741, P1741, P1742 and/or P1743.
2. Remove the transmission fluid pan. Refer to Workshop Manual (WSM), Section 307-01.
3. Inspect the transmission fluid pan magnet for debris.
 - a. If metallic debris is present, proceed to Step 4.
 - b. If little or no metallic debris is present or if blackened friction material is present, this article does not apply. Refer to WSM, Section 307-01 for normal diagnosis.
4. Install transmission fluid pan, remove transmission and disassemble. Refer to WSM, Section 307-01.
 - a. If cost cap directs transmission repair, proceed to Step 5.
 - b. If cost cap directs transmission replacement, proceed to Step 10.
5. Clean all internal components thoroughly. Replace any friction material which have metal pieces embedded.
6. Disassemble and clean the main control valve body. Refer to WSM, Section 307-01.
7. Assemble the transmission using the parts provided in the service kit. Be certain to perform steps to determine number 1 thrust washer thickness. Refer to WSM, Section 307-01.
 - a. Service kit contains seals and gaskets for all 4R75 models. Match up all removed seals and gaskets. Some seals and gaskets in the kit will not be required for certain models. Discard any unused components.
8. Were any of the following DTCs present in Step 1: P0741, P1741, P1742, P1743?
 - a. No - proceed to Step 9.

NOTE: The information contained 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, Lincoln, or Mercury 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.

- b. Yes - replace the torque convertor and proceed to Step 10.
- 9. Place the torque converter assembly on the bench and drain the old fluid. Refill with fresh transmission fluid and drain again. Repeat until clean oil is present when draining.
- 10. Perform transmission fluid cooler back flushing and cleaning. Refer to WSM, Section 307-01.
 - a. The transmission fluid cooler on Crown Victoria, Grand Marquis and Town Car vehicles cannot be flushed due to an internal thermostatic bypass valve. These vehicles require replacement of the transmission fluid cooler (A/C condenser assembly). Refer to WSM, Section 307-02.
- 11. Install the transmission. Refer to WSM, Section 307-01.

PART NUMBER	PART NAME
AL3Z-7A398-C	Planetary Upgrade Kit
378941-441	Nut - Converter (4 req.)
56142-S439	Exhaust Bolts - Crown Vic / Grand Mar / Town Car (4 req.)
391188-S441	Exhaust Flange Nuts - Crown Vic / Grand Mar / Town Car (4 req.)
N800594-S100	Driveshaft Fasteners - Except Econoline
N811880-100	Driveshaft Fasteners - Econoline
XL-5	Motorcraft® Multi-Purpose Grease Spray
XG-1-E1	Motorcraft® Premium Long-Life Grease
XT-10-QLVC	Motorcraft® MERCON® LV Automatic Transmission Fluid (2009-2012 MY)
XT-5-QM	Motorcraft® MERCON® V Automatic Transmission And Power Steering Fluid (2008 MY)
TA-25-B	Motorcraft® Threadlock and Sealer
XL-12	Motorcraft® Transfer Case Fluid
56761-S439	Bolt - Two Piece Driveshaft - Econoline Center Bearing
W711116-S439	Bolt - 2008 F-150 Multi-piece Driveshaft Center Bearing
7L1Z-4B496-C	Front Driveshaft Fasteners - 2009-2010 F-150 4X4 (2 req.)
7L1Z-4B496-D	Front Driveshaft Fasteners - 2009-2010 F-150 4X4 (3 req.)
8L1Z-7A443-A	Transfer Case Bolts - 2009-2010 F-150 4X4 (8 req)
E7TZ-7086-A	Gasket - Transfer Case
BW7Z-19712-A	A/C Condenser-Cooler - Crown Victoria/Grand Marquis/Town Car
7902	Torque Converter Assembly - See The Dealer Catalog For Proper Replacement Part
7000	Transmission Assembly - See The Dealer Catalog For Proper Replacement Part

OPERATION	DESCRIPTION	TIME
140153A	2008-2011 Crown Victoria, Grand Marquis And Town Car: Check DTCs, Inspect Fluid Pan, Replace Transmission, Flush Cooler Lines, Replace The Transmission Fluid Cooler Includes Time To Remove And Install Transmission And Post Road Test (Do Not Use With Any Other Labor Operations Except C When Required)	5.0 Hrs.

TSB 14-0153 (Continued)

OPERATION	DESCRIPTION	TIME
140153A	2008-2010 Econoline 4R75E Transmission: Check DTCs, Inspect Fluid Pan, Replace Transmission, Flush Cooler/Cooler Lines, Includes Time To Remove And Install Transmission And Post Road Test (Do Not Use With Any Other Labor Operations Except C When Required)	4.3 Hrs.
140153A	2008 F-150 4X2 4.2L 4R75E Transmission: Check DTCs, Inspect Fluid Pan, Replace Transmission, Flush Cooler/Cooler Lines, Includes Time To Remove And Install Transmission And Post Road Test (Do Not Use With Any Other Labor Operations Except C When Required)	3.8 Hrs.
140153A	2008 F-150, Mark LT 4X2 4.6L/5.4L 4R75E Transmission: Check DTCs, Inspect Fluid Pan, Replace Transmission, Flush Cooler/Cooler Lines, Includes Time To Remove And Install Transmission And Post Road Test (Do Not Use With Any Other Labor Operations Except C When Required)	4.0 Hrs.
140153A	2009-2010 F-150 4X2 4.6L SOHC 4R75E Transmission: Check DTCs, Inspect Fluid Pan, Replace Transmission, Flush Cooler/Cooler Lines, Includes Time To Remove And Install Transmission And Post Road Test (Do Not Use With Any Other Labor Operations Except C When Required)	5.0 Hrs.
140153A	2008 F-150, Mark LT 4X4 4.6L/5.4L 4R75E Transmission: Check DTCs, Inspect Fluid Pan, Replace Transmission, Flush Cooler/Cooler Lines, Includes Time To Remove And Install Transmission And Post Road Test (Do Not Use With Any Other Labor Operations Except C When Required)	5.4 Hrs.
140153A	2009-2010 F-150 4X4, 4.6L SOHC 4R75E Transmission: Check DTCs, Inspect Fluid Pan, Replace Transmission, Flush Cooler/Cooler Lines, Includes Time To Remove And Install Transmission And Post Road Test (Do Not Use With Any Other Labor Operations Except C When Required)	6.4 Hrs.
140153B	2008-2011 Crown Victoria, Grand Marquis And Town Car: Check DTCs, Inspect Fluid Pan, Repair Transmission, Flush Cooler Lines, Replace The Transmission Fluid Cooler Includes Time To Remove And Install Transmission And Post Road Test (Do Not Use With Any Other Labor Operations)	9.8 Hrs.
140153B	2008-2010 Econoline 4R75E Transmission: Check DTCs, Inspect Fluid Pan, Repair Transmission, Flush Cooler/Cooler Lines, Includes Time To Remove And Install Transmission And Post Road Test (Do Not Use With Any Other Labor Operations)	9.1 Hrs.
140153B	2008 F-150 4X2 4.2L 4R75E Transmission: Check DTCs, Inspect Fluid Pan, Repair Transmission, Flush Cooler/Cooler Lines, Includes Time To Remove And Install Transmission And Post Road Test (Do Not Use With Any Other Labor Operations)	8.6 Hrs.
140153B	2008 F-150, Mark LT 4X2 4.6L/5.4L 4R75E Transmission: Check DTCs, Inspect Fluid Pan, Repair Transmission, Flush Cooler/Cooler Lines, Includes Time To Remove And Install Transmission And Post Road Test (Do Not Use With Any Other Labor Operations)	8.9 Hrs.
140153B	2009-2010 F-150 4X2 4.6L SOHC 4R75E Transmission: Check DTCs, Inspect Fluid Pan, Repair Transmission, Flush Cooler/Cooler Lines, Includes Time To Remove And Install Transmission And Post Road Test (Do Not Use With Any Other Labor Operations)	9.8 Hrs.

OPERATION	DESCRIPTION	TIME
140153B	2008 F-150, Mark LT 4X4 4.6L/5.4L 4R75E Transmission: Check DTCs, Inspect Fluid Pan, Repair Transmission, Flush Cooler/Cooler Lines, Includes Time To Remove And Install Transmission And Post Road Test (Do Not Use With Any Other Labor Operations)	10.2 Hrs.
140153B	2009-2010 F-150 4X4, 4.6L SOHC 4R75E Transmission: Check DTCs, Inspect Fluid Pan, Repair Transmission, Flush Cooler/Cooler Lines, Includes Time To Remove And Install Transmission And Post Road Test (Do Not Use With Any Other Labor Operations)	11.1 Hrs.
140153C	Additional Time When Prior Approval Is Required (Can Be Claimed With Operation A)	0.3 Hr.

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.

DEALER CODING

BASIC PART NO.	CONDITION CODE
7A399	14