

FORD:
2002-2005 Explorer

MERCURY:
2002-2005 Mountaineer

LINCOLN:
2003-2005 Aviator

This article supersedes TSB **05-3-7** to update the service procedure and to add a vehicle line.

ISSUE

Some 2002-2005 4x4 Explorer 4dr/Mountaineer and 2003-2005 4x4 Aviator vehicles may exhibit a vibration/drone/boom at 55-75 MPH (89-121 km/h). Electronic vibration analyzer (EVA) readings will fall under 1st order rear driveshaft at 2700-3100 shaft RPM (45-52 Hertz).

ACTION

If the condition is present in 3rd gear (with overdrive cancelled), and is isolated to the driveline (not felt through the steering wheel), install a premium balanced driveshaft. Refer to the following Service Procedure.

SERVICE PROCEDURE

NOTE

THIS TSB DOES NOT APPLY TO THE SOLID 4X2 DRIVESHAFT, IT ONLY APPLIES TO 4X4 WITH BOOT/SLIP JOINT IN THE MIDDLE OF THE DRIVESHAFT.

1. With the vehicle in NEUTRAL, position it on a hoist. Refer to Workshop Manual Section 100-02.
2. Remove skid plate, if equipped.
3. Remove the driveshaft flange bolts (Figure 1).

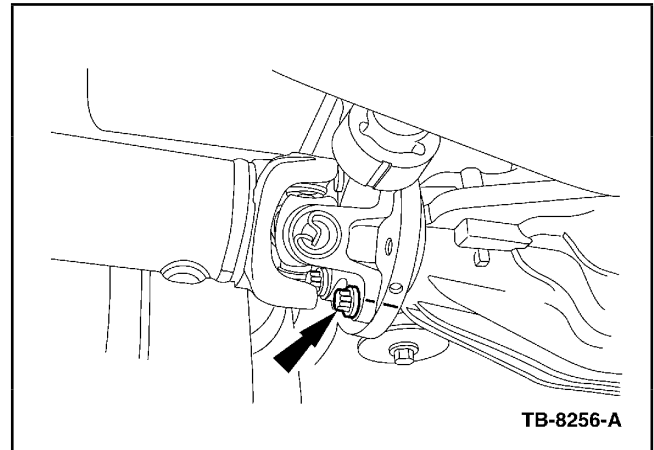


Figure 1 - Article 05-16-4

4. Remove the transfer case rear output flange bolts (Figure 2).

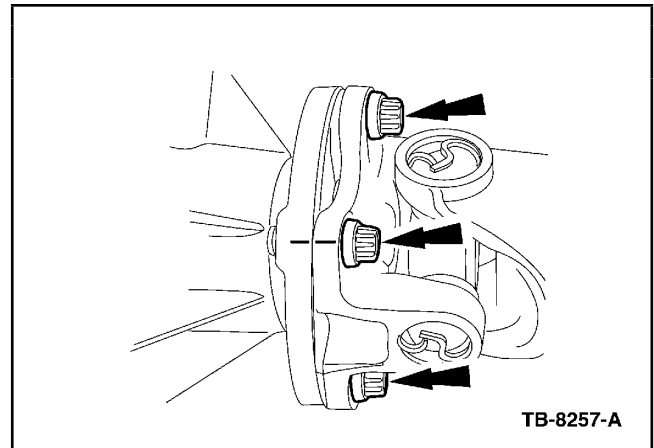


Figure 2 - Article 05-16-4

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

TSB 05-16-4 (Continued)

NOTE

THE DRIVESHAFT FLANGE FITS TIGHTLY ON THE AXLE PINION FLANGE PILOT AND THE TRANSFER CASE OUTPUT FLANGE. DO NOT HAMMER ON THE DRIVESHAFT OR ANY OF ITS COMPONENTS TO DISCONNECT THE DRIVESHAFT FLANGES FROM THE MATING FLANGES. PRY ONLY IN THE AREA SHOWN WITH A SUITABLE TOOL, TO DISCONNECT THE DRIVESHAFT FLANGES.

5. Using a suitable tool, disconnect the driveshaft flanges and remove the driveshaft (Figure 3).

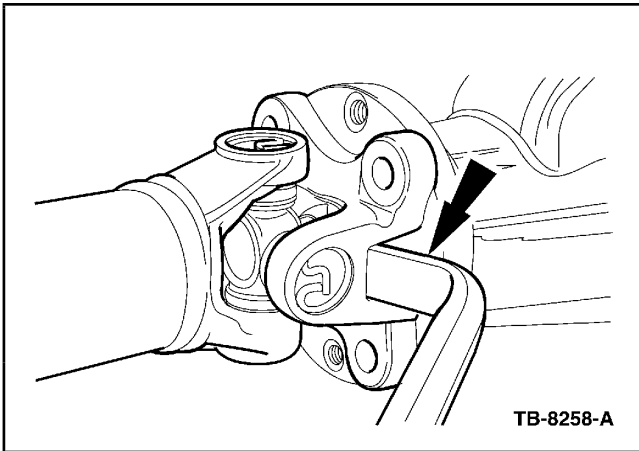


Figure 3 - Article 05-16-4

6. Measure the NEW driveshaft length from u-joint center to u-joint center. Refer to Step 6a or 6b.
 - a. Driveshafts measuring LESS than 1194 ± 1.0 mm must be expanded as follows:
 - (1) Place driveshaft on a suitable workbench and firmly secure either flange in a suitable vice.

CAUTION

CAREFULLY SECURE THE DRIVESHAFT TO AVOID DAMAGE TO THE FLANGE.

- (2) Grasp the shaft at the opposing flange with both hands and expand (by pulling) as required to 1194 ± 1.0 mm.

NOTE

DO NOT USE A BAR OR SIMILAR DEVICE BETWEEN THE FLANGE AND CARDON JOINT.

- b. Driveshafts measuring GREATER than 1194 ± 1.0 mm must be compressed as follows:

- (1) Place driveshaft on a suitable workbench and firmly secure either flange in a suitable vice.

CAUTION

CAREFULLY SECURE THE DRIVESHAFT TO AVOID DAMAGE TO THE FLANGE.

- (2) Grasp the shaft at the opposing flange with both hands and compress (by pushing) together by hand as required to 1194 ± 1.0 mm.

NOTE

DO NOT USE A HAMMER OR SIMILAR DEVICE. THIS MAY CAUSE DAMAGE TO THE SHAFT FLANGE.

7. To install, align the driveshaft paint markings with companion flange markings, if present.
8. Coat the bolts with Threadlock And Sealer TA-25 meeting Ford specification WSK-M2G351-A5.

NOTE

THE DRIVESHAFT FLANGES FITS TIGHTLY ON THE PINION FLANGE PILOTS. TO ENSURE THE DRIVESHAFT FLANGES SEAT SQUARELY ON THE PINION FLANGES, TIGHTEN THE DRIVESHAFT FLANGE BOLTS EVENLY IN A CROSS PATTERN.

9. Support the rear driveshaft.
10. Install flange bolts at rear axle flange by hand.
11. Install flange bolts at transfer case flange by hand.
12. Tighten all driveshaft flange bolts to 76 lb-ft (103 N•m).
13. Reinstall skid plate, if equipped.

PART NUMBER	PART NAME
6L2Z-4602-A	Driveshaft
TA-25	Threadlock And Sealer

WARRANTY STATUS: Eligible Under Provisions Of New Vehicle Limited Warranty Coverage

TSB 05-16-4 (Continued)

OPERATION	DESCRIPTION	TIME
051604A	2002-2005 Explorer/Mountaineer 2003-2005 Aviator: Install EVA, Road Test To Verify Concern, Replace Driveshaft After Measuring And Adjusting Driveshaft To Specific Length (Do Not Use With 4602A, 1007D, 1007D7)	1.3 Hrs.

DEALER CODING

BASIC PART NO.
4602

CONDITION
CODE
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