

CD4E—LOSS OF 2ND AND 4TH GEAR**TSB 12-4-8****FORD:**

2007-2008 Escape

ISSUE

Some 2007-2008 Escape and Mariner vehicles equipped with a CD4E transmission may experience a loss of 2nd and 4th gear.

ACTION

Follow the Service Procedure Steps to correct the concern.

SERVICE PROCEDURE

1. Check the transmission fluid condition. Refer to Workshop Manual (WSM), Section 307-01A. Does the fluid condition pass evaluation?
 - a. No - this article does not apply, refer to WSM, Section 307-01A for normal diagnostics
 - b. Yes - proceed to Step 2.
2. Remove the automatic transaxle; refer to WSM, Section 307-01A.
3. Remove the torque converter and pump shaft from transmission, refer to WSM, Section 307-01A.
4. Remove the turbine speed sensor (TSS) from the pump, discard the TSS O-ring seal.
5. Position the transaxle so the pump assembly is facing upward.
6. Remove the servo cover retaining ring, servo cover, servo piston and return spring.
7. Remove the pump assembly while holding rotating parts in place using a screwdriver inserted through turbine speed sensor hole in the pump while removing the pump assembly. (Figure 1)

MERCURY:

2007-2008 Mariner



Figure 1 - Article 12-4-8

8. Remove the intermediate and overdrive band assembly from the case. Be sure to get all pieces and make sure no contamination is left inside transmission. (Figure 2)



Figure 2 - Article 12-4-8

- a. Choose the correct band for application from kit.
 - (1) 4 cylinder engines require light colored friction material.
 - (2) 6 cylinder engines require dark colored friction material.

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 12-4-8 (Continued)

9. Install the intermediate and overdrive band assembly into the case. Refer to WSM, Section 307-01.
10. Install the number 1 pump support thrust bearing onto pump support with petroleum jelly.
11. Install the pump assembly into the case with a new pump separator plate gasket and outer pump body O-ring.
12. Measure servo travel. Using Intermediate/Overdrive Servo Apply Rod Chart, select and install the correct length servo rod assembly.
13. Install a new servo cover and retaining ring.
14. Install drain plug using thread sealer on the threads, torque to 25 N•m (18 lb-ft).
15. Install a new O-ring on the TSS sensor and install sensor into pump.
16. Position transmission top side up.
17. Install the pump driveshaft and torque converter.
18. Install the automatic transaxle, refer to WSM, Section 307-01A.

| |
|-----------------|
| Outside Part |
| Petroleum Jelly |

| PART NUMBER | PART NAME |
|---------------|---|
| 6L8Z-7D034-A | Band Kit |
| W710553-S440 | Nut - Crossbrace |
| N800750-S437 | Nut - Torq Converter |
| W705967-S439X | Front Axle Wheel Hub Nut - 2.3L Left Hand |
| W520103-S403 | Flex Pipe Nut - 2.3L |
| W520102-S439 | Catalytic Converter Nuts - 2.3L |
| W705443-S900 | Exhaust Nut - 3.0L Only - Y Pipe and AWD Catalytic Converter |
| YL8Z-5F262-AA | Exhaust Hanger - 3.0L Only |
| YL8Z-9450-AA | Exhaust Gasket - 3.0L Only |
| 5L8Z-9450-CA | Exhaust Gasket - 3.0L Only |
| W701706-S440 | Nut - Exhaust Manifold - 3.0L AWD Only (6 Req.) |
| XW4Z-9448-AD | Exhaust Manifold Gasket Right Hand - 3.0L AWD Only |
| W712244-S300 | Exhaust Stud Right Hand - 3.0L AWD Only |
| XT-5-QMC | Motorcraft® Mercon® V Automatic Transmission and Power Steering Fluid |
| TA-24 | Motorcraft® Thread Sealant with PTFE |

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 |
|-----------|--|----------|
| 120408A | Operation A: 2007-2008 Escape 4X2, Mariner FWD 2.3L Engine: Replace Band Following The Service Procedure (Do Not Use With Any Other Labor Operation) | 5.8 Hrs. |
| 120408A | Operation A: 2007 Escape 4X2, Mariner FWD 3.0L: Replace Band Following The Service Procedure (Do Not Use With Any Other Labor Operation) | 6.3 Hrs. |
| 120408A | Operation A: 2008 Escape 4X2, Mariner FWD 3.0L: Replace Band Following The Service Procedure (Do Not Use With Any Other Labor Operation) | 6.3 Hrs. |
| 120408A | Operation A: 2007-2008 Escape 4X4, Mariner AWD 2.3L: Replace Band Following The Service Procedure (Do Not Use With Any Other Labor Operation) | 6.4 Hrs. |
| 120408A | Operation A: 2007 Escape 4X4, Mariner AWD 3.0L: Replace Band Following The Service Procedure (Do Not Use With Any Other Labor Operation) | 7.5 Hrs. |
| 120408A | Operation A: 2008 Escape 4X4, Mariner AWD 3.0L: Replace Band Following The Service Procedure (Do Not Use With Any Other Labor Operation) | 7.6 Hrs. |

DEALER CODING

BASIC PART NO.
7D034

CONDITION
CODE
01