TRANSMISSION—4R70W—ERRATIC OR PROLONGED 1-2 SHIFT

TRANSMISSION—AODE—ERRATIC OR PROLONGED 1-2 SHIFT

Article No. 97-11-11

- FORD: 1992-1997 CROWN VICTORIA 1994-1997 MUSTANG, THUNDERBIRD, ECONOLINE, F-150 1996-1997 EXPLORER 1997 EXPEDITION
- LINCOLN: 1992-1997 TOWN CAR 1993-1997 MARK VIII
- MERCURY: 1992-1997 GRAND MARQUIS 1994-1997 COUGAR 1997 MOUNTAINEER

ISSUE

Some vehicles may exhibit an erratic or prolonged 1-2 shift. This may be caused by early Accumulator Seal wear which may occur during repeated 1-2, 2-1 shift cycling. The Accumulator side loads in the Case Accumulator Bore and causes the Case Bore to become scuffed. Bore scuffing leads to premature seal wear and eventual intermediate clutch pressure loss, which leads to the loss in 1-2 shift.

ACTION

Replace the cast aluminum piston with the one-piece stamped steel piston with bonded lip seals and replace the top Accumulator Spring. These revised parts allow for increased durability. Refer to the following Service Procedure for details.

SERVICE PROCEDURE

NOTE

TRANSMISSION CASE REPLACEMENT IS NOT REQUIRED DUE TO 1-2 SHIFT ACCUMULATOR BORE SCUFFING. THE REVISED PISTON ASSEMBLY CAN BE USED WITH SCUFFED SEAL BORE.

 With the vehicle on a hoist, remove the transmission pan and gasket. Using the Snap Ring Removal Tool, remove the 1-2 Accumulator Piston Retainer. At this time, the spring load will pop the cover and bottom Accumulator Spring out of the bore.

- 2. Remove the piston and top Accumulator Spring.
- Replace the piston and top Accumulator Spring with the new bonded Piston (F7AZ-7F251-AA) and spring (refer to Figure 1 for applications). If not damaged, reinstall the bottom Accumulator Spring and cover.
- 4. Reinstall the retaining ring.

NOTE

DO NOT REUSE THE TRANSMISSION PAN GASKET IF IT IS DAMAGED.

5. Install the transmission pan and gasket.

PART NUMBER	PART NAME
F7AZ-7F251-AA	Piston/Seal Assembly
F3LY-7F284-A	Accumulator Spring - Bottom
F4UZ-7F284-A	Accumulator Spring - Bottom
F7AZ-7F284-BA	Accumulator Spring - Bottom
F7AZ-7F284-BA	Accumulator Spring - Top
F7AZ-7F284-CA	Accumulator Spring - Top
F75Z-7F284-CA	Accumulator Spring - Top
F75Z-7F284-BA	Accumulator Spring - Top

Article No. 97-11-11 Cont'd.

			0711110	Add Time Te
	LICABLE ARTICLES: NONE STATUS: Eligible Under The		971111B	Add Time To Inspect And F
	Provisions Of Burr	per To		Gasket
	Bumper Warranty	Coverage	971111C	Post Repair F
OPERATION	DESCRIPTION	TIMĚ	DEALER CO	DING
971111A	Replace 1-2 Accumulator	0.9 Hr.		
	Components As Required		BASIC PART	NO.
	(Includes Pan Removal		7F249	
	And Installation) - All Vehicles		OASIS CODE	ES: 501000, 502 590000

971111B	Add Time To Clean, Inspect And Reuse Par Gasket	0.1 Hr.
0744440	• • • • • • •	
971111C	Post Repair Road Test	0.3 Hr.
DEALER COD	DING	
		CONDITION
BASIC PART	NO.	CODE
7F249		70
OASIS CODE	S: 501000, 502000, 5030	000, 504000,

4R70W/AOD-E TRANSMISSION 1-2 ACCUMULATOR USAGE BASE SPRING PART NUMBER -7F284-

		1992	1993	1994	1995	1996	1997
Crown Victoria 4.6L /	Top	None	None	F7AZ-CA (Dk. Blue)	F7AZ-AA (White)	F7AZ-AA (White)	F7AZ-AA (White)
Grand Marquis 4.6L	Bottom	F7AZ-BA (Violet)	F7AZ-BA (Violet)	F7AZ-BA (Violet)	F3LY-A (Purple)	F3LY-A (Purple)	F3LY-A (Purple)
Mark VIII 4.6L 4V	Top	AN	F75Z-AA (Lt. Blue)	F75Z-AA (Lt. Blue)	F75Z-AA (Lt. Blue)	F75Z-AA (Lt. Blue)	F75Z-AA (Lt. Blue)
	Bottom	NA	F3LY-A (Purple)	F3LY-A (Purple)	F3LY-A (Purple)	F3LY-A (Purple)	F4UZ-A (Pink)
Mustang 3.8L	Top	AN	NA	None	None	F7AZ-AA (White)	F7AZ-AA (White)
	Bottom	NA	NA	F3LY-A (Purple)	F3LY-A (Purple)	F4UZ-A (Pink)	F4UZ-A (Pink)
Mustang 4.6L	Top Bottom	AN NA	A N	None F3LY-A (Purple)	None F3LY-A (Purple)	F75Z-AA (Lt. Blue) F3LY-A (Purple)	F75Z-AA (Lt. Blue) F3LY-A (Purple)
Mustang 5.0L	Top Bottom	NA NA	NA	None F3LY-A (Purple)	None F3LY-A (Purple)	A N	A N A
Thunderbird 3.8L /	Top	NA	NA	None	None	F7AZ-AA (White)	F7AZ-AA (White)
Cougar 3.8L	Bottom	NA	NA	F3LY-A (Purple)	F3LY-A (Purpie)	F4UZ-A (Pink)	F4UZ-A (Pink)
Thunderbird 4.6L /	Top	NA	NA	None	None	F75Z-AA (Lt. Blue)	F75Z-AA (Lt. Blue)
Cougar 4.6L	Bottom	NA	NA	F3LY-A (Purple)	F3LY-A (Purple)	F3LY-A (Purple)	F3LY-A (Purple)
Town Car 4.6L	Top	None	None	F7AZ-CA (Dk. Blue)	F7AZ-AA (White)	F7AZ-AA (White)	F7AZ-AA (White)
	Bottom	F7AZ-BA (Violet)	F7AZ-BA (Violet)	F7AZ-BA (Violet)	F3LY-A (Purple)	F3LY-A (Purple)	F3LY-A (Purple)
Econoline	Top	NA	NA	NA	NA	NA	F75Z-BA (Brown)
4.2L and 4.6L	Bottom	NA	NA	NA	NA		F4UZ-A (Pink)
Econoline 5.0L	Top Bottom	NA NA	NA NA	F7AZ-AA (White) F4UZ-A (Pink)	F7AZ-AA (White) F4UZ-A (Pink)	F7AZ-AA (White) F4UZ-A (Pink)	AN
Expedition 4.6L	Top	NA	NA	NA	NA	NA	F75Z-AA (Lt. Blue)
	Bottorn	NA	NA	NA	NA	NA	F4UZ-A (Pink)
Explorer 5.0L /	Top	NA	NA	NA	NA	F7AZ-AA (White)	F7AZ-AA (White)
Mountaineer	Bottom	NA	NA		NA	F4UZ-A (Pink)	F4UZ-A (Pink)
F-150 4.2L	Top	NA	NA	NA	NA	F7AZ-AA (White)	F7AZ-AA (White)
	Bottom	NA	NA	NA	NA	F4UZ-A (Pink)	F4UZ-A (Pink)
F-150 4.6L	Top Bottom	NA	NA NA	NA NA	NA	F75Z-AA (Lt. Blue) F4UZ-A (Pink)	F75Z-AA (Lt. Blue) F4UZ-A (Pink)
F-150 5.0L	Top	NA	NA	F7AZ-AA (White)	F7AZ-AA (White)	F7AZ-AA (White)	AN
	Bottorn	NA	NA	F4UZ-A (Pink)	F4UZ-A (Pink)	F4UZ-A (Pink)	AN
F-250 LD 4.6L	Top Bottom	NA NA	AN NA	AN NA	NA	AN NA	F75Z-BA (Brown) F4UZ-A (Pink)

TB-5069-A

NOTES: The base part number for the spring is -7F284-. For example, the part number for the pink spring is F4UZ-7F284-A.
When referencing spring location, bottom refers to the bottom of the transmission as it sits in the vehicle (pan side).
NA means 4R70W/AOD-E was not used in that model for that model year.