

Sedan Range

DATE 6/96 Amended 9/96

08.1-03

TECHNICAL BULLETIN

ZF 4 HP 24 E Transmission – Diagnostic Flowcharts

MODEL 1995 MY-ON Sedan (4.0L NA) Range VIN

720001-ON

Remove and destroy Bulletin 08.1-03, Date 6/96. Replace with this Bulletin. Revisions are marked with a bar and in **bold text**.

ISSUE:

The following diagnostic flowcharts are designed to assist technicians in the correct diagnosis of automatic transmission problems.

The flowchart headings list the potential customer comments which are then systematically investigated in the chart using methods based on extensive field experience.

ACTION:

When diagnosing transmission complaints perform the following checks before the road test:

- 1. Check that the throttle is fully open when the accelerator pedal is fully depressed.
- 2. Check that kickdown occurs at the correct point when the accelerator pedal is depressed.

During the road test, record the speeds at which the shifts occur.

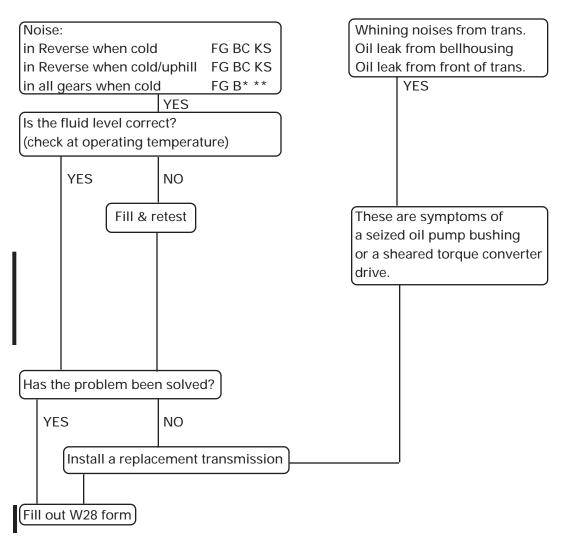
NOTE: Transmissions not installed in a vehicle must have the torque converter retaining bracket in place. The bracket should only be removed immediately before installing the transmission in a vehicle. The bracket prevents any excessive loading on the torque converter bushing as a result of the torque converter being unsupported.

Transmissions returned under warranty must be accompanied by a completed W-28 form and must have the torque converter retaining bracket installed.

ZF 4 HP 24 E DIAGNOSTIC FLOWCHART

Judder in Harsh TC Harsh 3-4 Harsh cha Judder w Poor qua Shifts wit Cut out a Erratic sh Shudder	n Reverse CC engageme 4 & part throt ange at 50-55 when hot ality 3-4 shift th clunk at idle hifts	tle 4-3 shift (FG 5 mph (FG CD FG) ring wheel dur	DB FG			
(check at	operating ter	mperature)	NO	Fill and retest		
(water se	uid sample co eparates from s allowed to s		YES	Install a replacement transmission, cooler & flush sy	ystem	Test OK
N	0					
Is shudder felt through steering wheel at 3-4 shift?		YES	Install rear suspension monostrut		Test OK	
N	0					
	rsh 3-4 shift nen fully lader	n?	YES	Install longer rear springs (see Tech. Bulletin 11-03)		Test OK
N	0					
Has a nev been inst	w valve body talled?	, 	NO	Install replacement valve body	′]	Test OK
YE	ES					
Has the p	problem been	n solved?	NO	Install replacement transmission	on	Test OK
YE	ES			(Fill out	W28 form





ZF 4 HP 24 E NOISE DIAGNOSIS

PARTS INFORMATION:

DESCRIPTION	<u>PART NUMBER</u>	<u>QTY</u>
Rear suspension monostrut	MNA 3713AA	1

WARRANTY INFORMATION:

Refer to Section FB and FG of the Warranty Codes and Repair Operation Times Manual for the appropriate fault codes. (Use DL BB HB for a cooler failure).

FAULT	R.O.	TIME
CODE	<u>NUMBER</u>	DESCRIPTION ALLOWANCE
FB FD **	44.40.01	Replace valve body 1.75 hrs.
FB ** **	44.20.01	Replace transmission 5.00 hrs.
FG CD **	64.91.05	Monostrut conversion 0.50 hrs.