

# **Technical Service Information**

### FORD 4R100 INTERMEDIATE "DIODE" FREEWHEEL FAILURE

**COMPLAINT:** Some Ford Motor Company vehicles equipped with the 4R100 transmission may exhibit

premature failure of the newly introduced Intermediate "Diode" Freewheel device that was

installed in model year 2001 and illustrated in Figure 1.

**CAUSE:** The cause may be, more than expected load factors.

**CORRECTION:** The Intermediate "Diode" is *no longer serviced* by Ford Motor Company. The part number

now supercedes to all of the previous design level parts, which include the direct clutch housing, intermediate sprag assembly, outer race to direct drum thrust washer, and the intermediate friction plates. All of the previous design level parts are illustrated in Figure 2, along with the OEM part numbers. The intermediate frictions must be replaced because the

tooth count on the outer race between the diode and the sprag are different.

Special Note: ATSG recommends replacing the Intermediate "Diode" during service, even if it has not yet failed, to protect yourself from possible future failures.

#### **SERVICE INFORMATION:**

Direct Clutch Housing, 2nd Design (Without 4 Tab Washer)	YC3Z-7D044-BA
Direct Clutch Housing, 1st Design (With 4 Tab Washer)	F81Z-7D044-BA
Sun Shell, Hardened, 2nd Design	YC3Z-7D064-BA
Sun Shell, Regular, 2nd Design	YC3Z-7D064-BA
Direct to Forward Drum 4 Tab Thrust Washer	E9TZ-7C096-A
Direct Drum to Outer Sprag Race Thrust Washer	E9TZ-7G401-A
Intermediate Sprag Assembly	E9TZ-7A089-B
Intermediate Friction Plates (Special 50 Tooth, 3 Required)	1C3Z-7B164-BA

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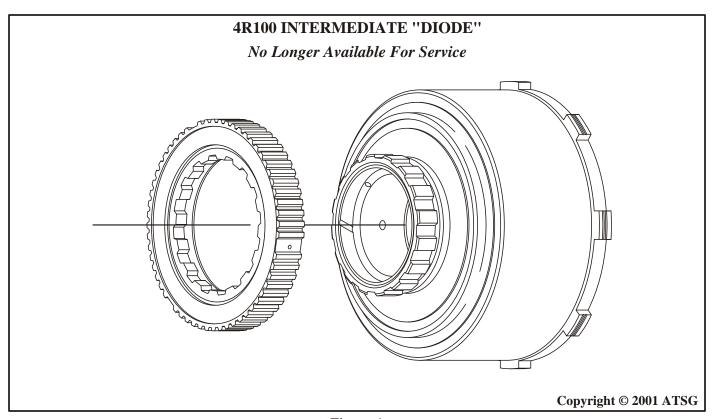


Figure 1

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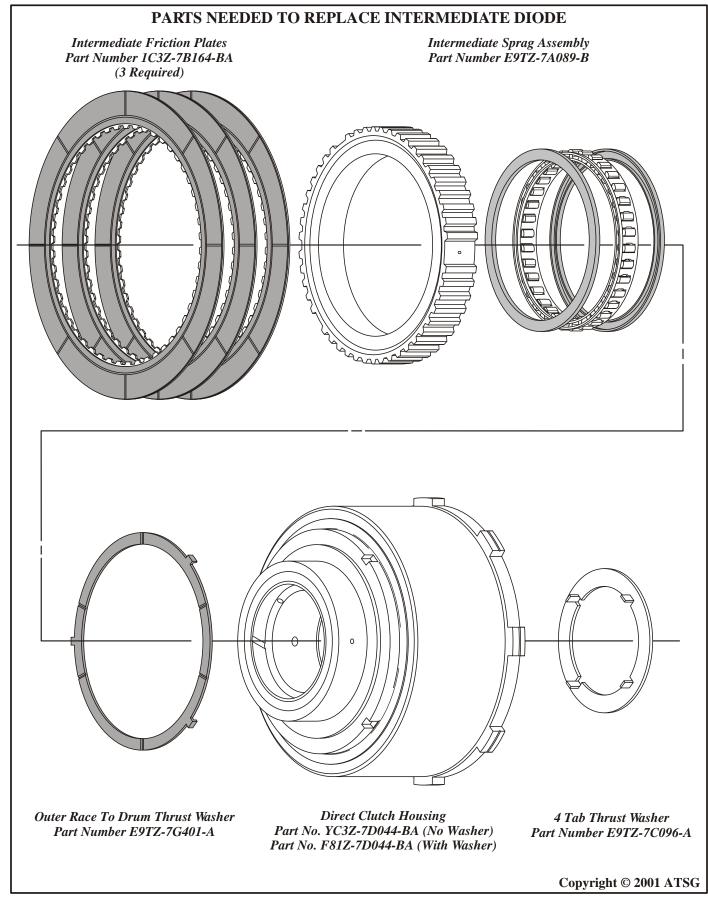


Figure 2
AUTOMATIC TRANSMISSION SERVICE GROUP

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