

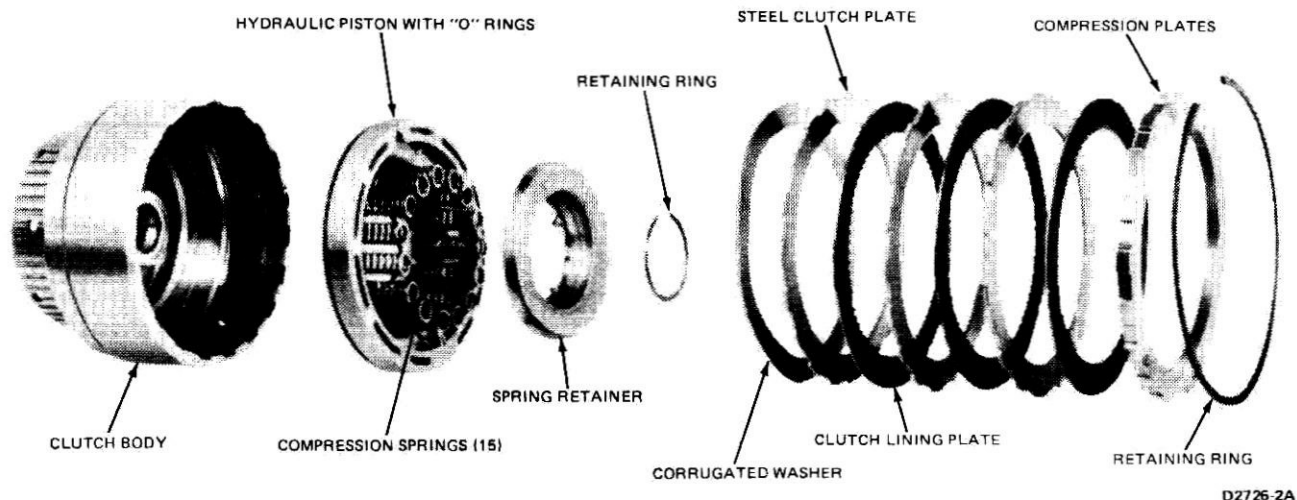


FIG. 33 Forward Drive Clutch Detail

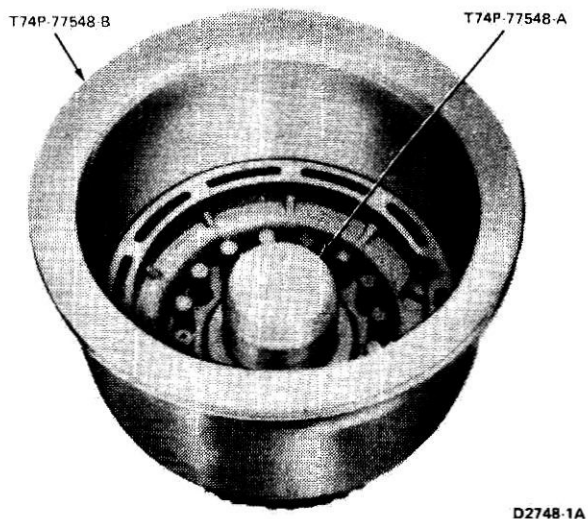


FIG. 34 Inner and Outer Seal Protector

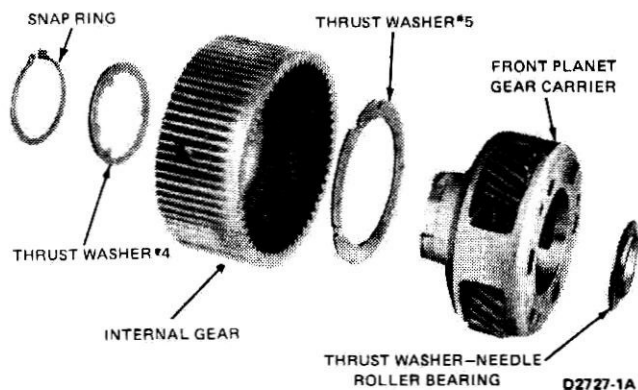


FIG. 35 Separation of Planet Gear Carrier from Internal Gear

5. Assemble the counterweight spring and primary valve in the governor body.
6. Assemble the governor body and counterweight to the oil collector body.

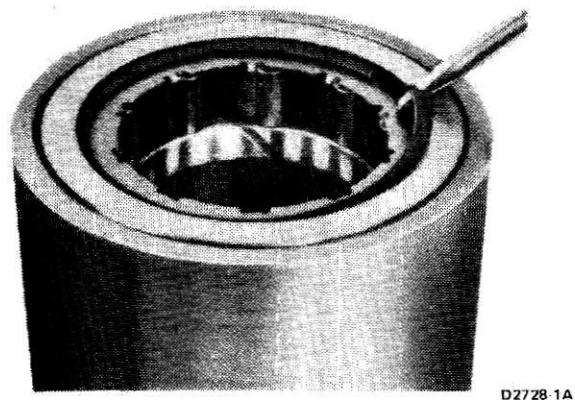


FIG. 36 Bearing and Spring Removal

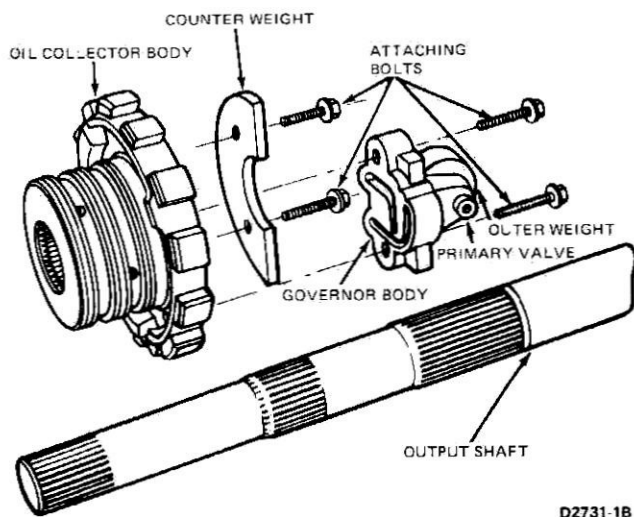


FIG. 37 Insertion of Bearing Rollers

CONTROL VALVE BODY

Refer to Figs. 40, 41, 42, and 43.

1. Remove the separator plate bolts and carefully lift off the separator plate.



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FIG. 38 Governor Components

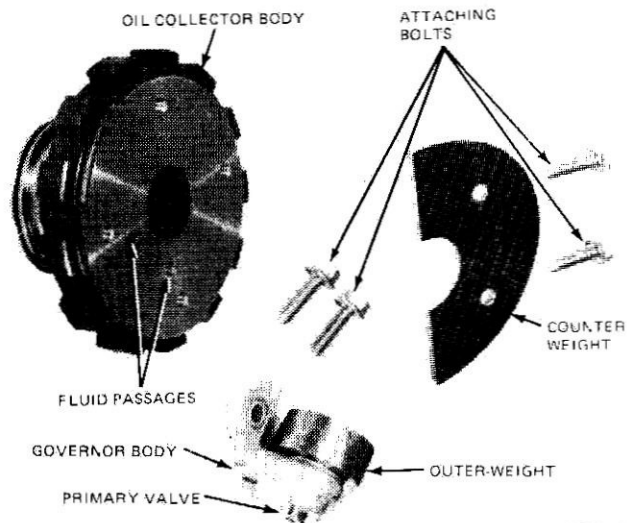
2. Remove the five ball valves and both relief valves with springs. Refer to Fig. 43 for correct replacement.
3. Remove the retaining plates; dowels, plugs and valves with springs. Do not mix the springs.
4. Carefully clean the oil channels and parts by blowing through with compressed air.
5. Inspect all parts for burring, unevenness and gum deposits. If necessary replace parts.
6. Lubricate all parts with transmission fluid, then install the valves, springs, plugs and pins (Figs. 42 and 43).
7. Using a new gasket, install the separator plate (Fig. 40). Be sure that the ID tag does not interfere with the control valve body fit to the case.

TRANSMISSION

ASSEMBLY

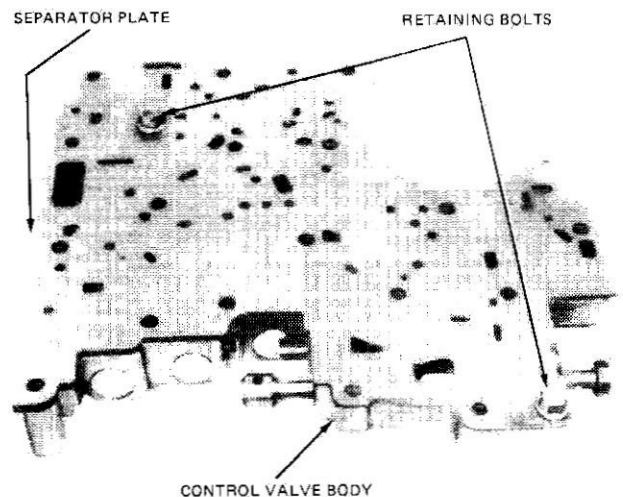
Review Figs. 1, 16 and 17 to make assembly of the transmission easier and prevent mistakes. Thoroughly clean all moving parts and lubricate them with the specified automatic transmission fluid before assembly.

1. Press in a new hydraulic pump oil seal using Tool T74P-77103-A and Adapter T74P-77248-B (Fig. 44).
2. Install the vacuum diaphragm as described in Part 17-01 (Fig. 13) of this Shop Manual.
3. If the one-way clutch inner race was removed (Fig. 25), install it using Tool T74P-77193-A.
4. Position thrust washer No. 11 in the case and install the output and governor assembly. **Be careful not to damage the steel oil seals.**
5. Position the rear brake band in the housing in correct relation to the guide pilots.
6. Position thrust washer No. 10 in the case and install the rear brake drum using the clutch replacing guide Tool T74P-77193-A (Fig. 45). Then remove the guide and install the internal gear. Secure with a snap ring.
7. Position thrust washer No. 9 to the back of the planet system carrier with light grease or petroleum



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FIG. 39 Governor Housing—Disassembled



D2732-1A

FIG. 40 Separator Plate Assembled

- jelly. Install the planet system carrier (Fig. 46) and secure to the rear brake drum with the snap ring.
8. Position thrust washer No. 8 to the planet gear carrier with petroleum jelly and install the front assembly (Fig. 22).
9. Install the spiral spring on the front servo piston assembly (Fig. 47). Position the piston and cover and secure with the snap ring using Tool T74P-77028-A (Fig. 48). Replace the servo piston or O-rings at this time, if necessary.
10. Install the brake band and struts starting with the one at the servo piston lever (Fig. 21).
11. **Being careful not to damage the oil seals, turn the transmission on the assembly stand so the output shaft points downward.** Install the hydraulic pump with thrust washer No. 1 (Fig. 49).
12. Recheck the end play as described under Disassembly, and if necessary replace the thrust washer. **This step is very important.**
13. Remove the hydraulic pump. Install the inside and outside pump gears making sure that the small gear

1978 CARS

Vehicle	Engine	Trans. Model	Servo Cover	Servo Piston	Servo Spring	Servo Lever
Mustang/Pinto/ Bobcat Fairmont/Zephyr	2.3 Litre	78DT-ACA -ADA -SA	① 74DT-7D027-BB	74DT-7E221-A1B, 74DT-7E221-A2B	② 74DT-7D028-AB	E ③
Pinto/ Bobcat	2.8 Litre	78DT-AGA	① 74DT-7D027-BB	74DT-7E221-A1B, 74DT-7E221-A2B	② 74DT-7D028-AB	D ④
Fairmont/Zephyr	3.3 Litre (200 CID 6)	78DT-BCA -BAA	① 74DT-7D027-BB	74DT-7E221-B1A	② 74DT-7D028-AB	D ④

① Part number cast on cover.

③ 74DT-7D396-EB

② Orange color-coded.

④ 74DT-7D396-BB

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FIG. 41 Intermediate Servo Piston Cover and Spring Identification

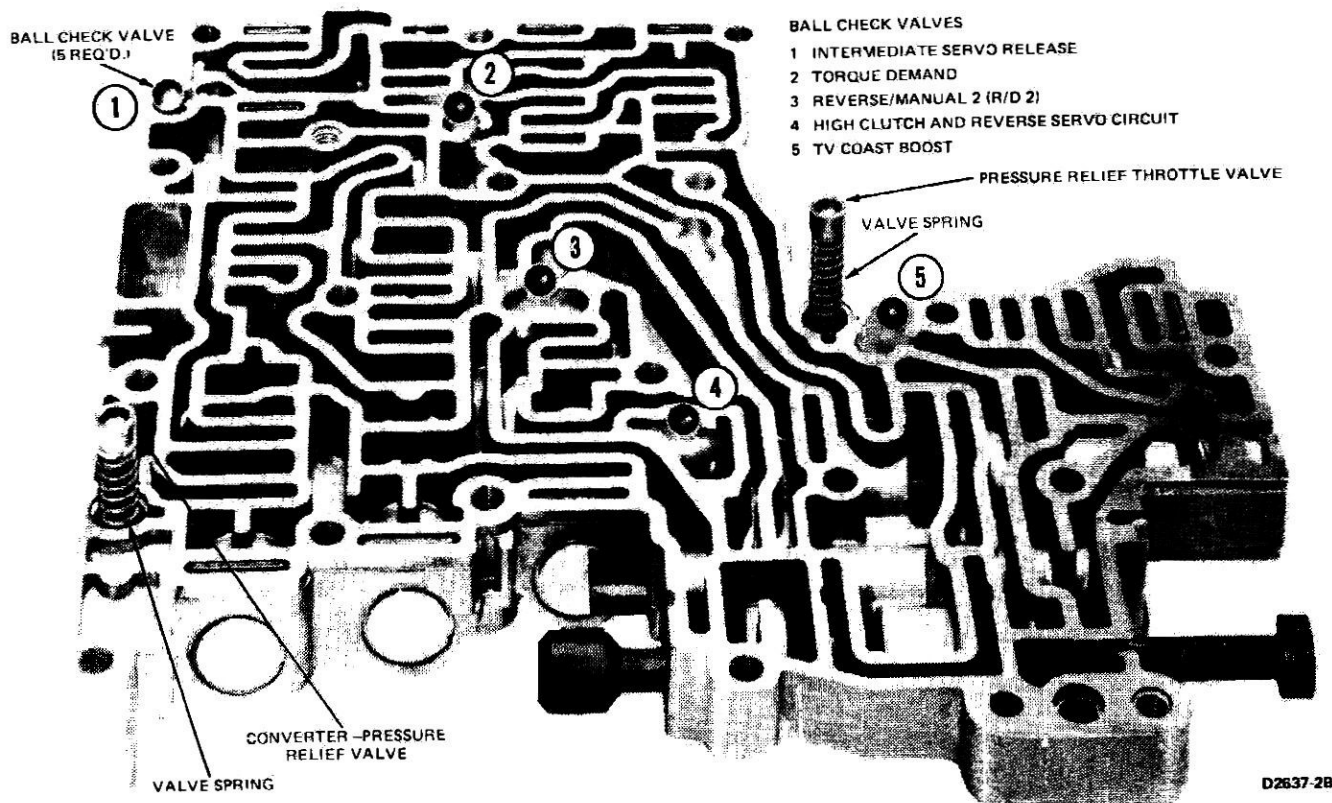


FIG. 42 Control Valve Body Assembly (Valves Installed)

has the I.D. pump drive flat recess facing upward, and that the large gear has the chamfer facing downward.

14. Position the steel plate on the hydraulic pump in the exact position required (Fig. 50); then install the complete assembly to the converter housing.
15. Tighten the bolts finger tight. Align the pump using Tool T74P-77103-A. **This tool must be used and the sleeve gauging surfaces must be in good condition. Otherwise the pump will not be aligned correctly with the converter housing; then seal leakage or bushing failure will result.** To use the tool, select the arbor with the smallest I.D. that will fit completely over the pump shaft. Assemble the common handle to the selected arbor and slide the tool down over the shaft until it

bottoms against the pump. The outside diameter of the tool arbor will then automatically center the pump in the converter housing. Torque the bolts to specification and remove the tool.

16. Insert the input shaft into the pump and install the converter into the pump gears. Rotate the converter to check for free movement, then remove the converter and input shaft.
17. Position the selected thrust washer No. 1 to the pump housing with petroleum jelly. Install a new O-ring. Carefully install the converter housing with the pump, using a new gasket. **Do not damage the steel oil seals.** Install the bolts and torque to specification.
18. Adjust the brake band as described under Adjustments (Fig. 4).