

ULTRAMATIC DRIVE

TRANSMISSION DISASSEMBLY

Oil Pan and Control Valve Removal

After the transmission is removed from the car, place it on a clean work bench or work stand, upside down so the oil pan is on the top. Remove the oil pan and gasket.

Install the hold-down fixture PU-308 on the low range band lever and the reverse band lever. This is accomplished by inserting the narrow end of the fixture between the lever and the piston, attaching the other end to the transmission case by two knurled head screws. This will prevent dropping the band struts when the valve assembly is removed.

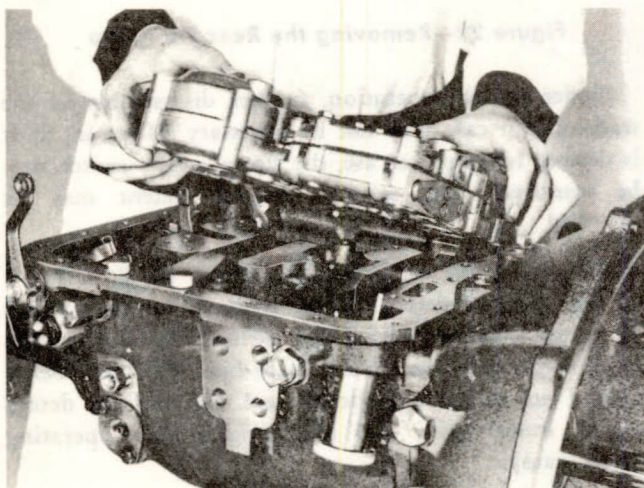


Figure 17—Removing the Control Valve Assembly

Remove the oil screen. Remove the pin from the control valve link. Remove all the $\frac{5}{16}$ " attaching cap screws. Notice the location of the different length cap screws. Remove the control valve lower body, separator, and upper body as an assembly. The assembly may be further disassembled if necessary.

Bell Housing Removal

Remove the eight attaching cap screws and remove the bell housing. Remove the gasket.

High Range Clutch Unit Removal

Loosen the low range band adjustment. Remove the high range clutch assembly. Remove the front sun gear thrust bearing.

Remove the hold-down fixture from the low range band lever. Remove the struts from the low range band. Be careful that the struts do not drop into the transmission case. Remove the low range band.

Planetary Unit Removal

Remove the governor cover. Remove the governor adapter attaching cap screws and remove the governor.

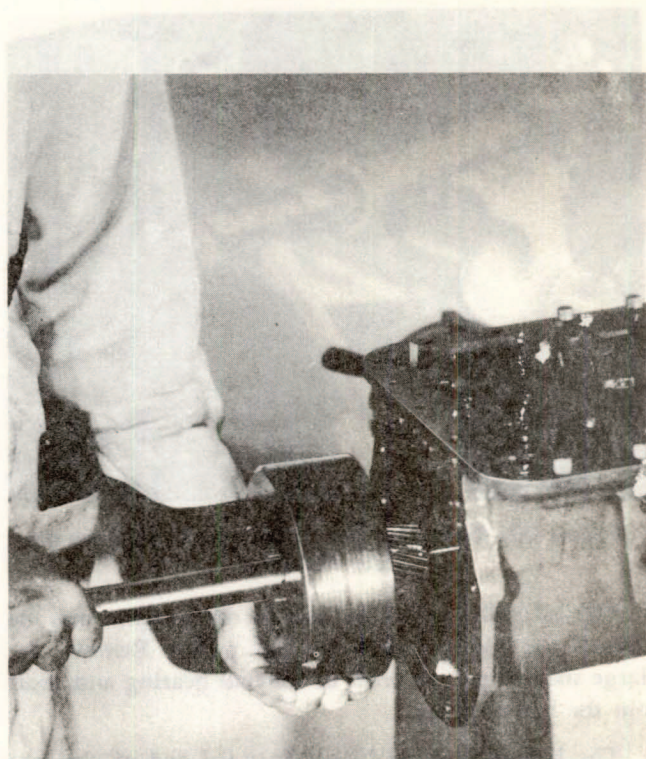


Figure 18—Removing the High Range Clutch Assembly

Remove the speedometer drive pinion and retainer.

Remove the rear housing cap screws and remove the housing and extension shaft as an assembly.

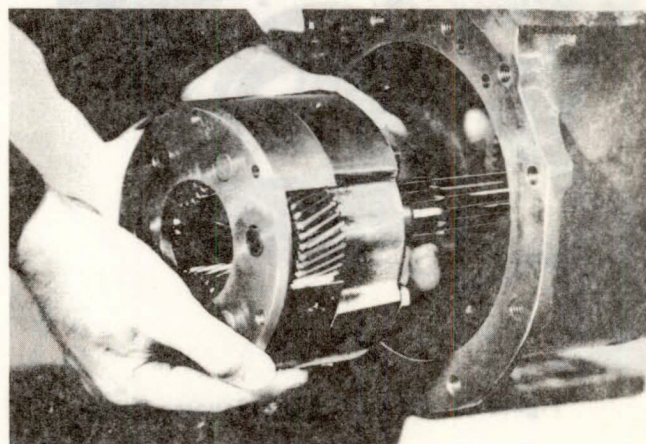


Figure 19—Removing the Planetary Unit

Remove the parking gear. Remove the speedometer drive gear and spacers. Note that the spacer with the grooved face goes to the rear of the speedometer drive gear. Remove the entire planetary unit and output shaft through the front of the transmission case.

The extension shaft may be removed from the hous-