

Ford C-4 Manual Valve Body Installation Instructions
Forward Pattern Manual (PRN321) #72011

This valve body is for push in modulator style cases only (1972 and up)

List of Enclosed Parts:

- (1) Valve Body Assembly
- (1) 9/16" Freeze Plug

Note: Prior to beginning installation of this valve body kit it is recommended that you be knowledgeable in the assembly of your transmission. If necessary consult a manual or seek the advice of a transmission shop. The transmission must be properly rebuilt for racing before installation of this valve body.

1. Remove the transmission pan and existing valve body.
2. Use a stock unmodified Ford C-4 **H** front Servo with its matching cover and stock spring. The **H** servo is common and has the largest band apply area, which is the area that goes into the cover. **DO NOT** remove O-ring or plug hole in case as this will cause a bind up on the 2-3 shift on forward shift valve body.

Caution:

When using a stock servo cover, adhesive should be applied to both sides of servo cover gasket. Make sure servo is not warped, then rough up gasket mating surface of servo cover and case with sand paper.

3. Remove the direct clutch drum and inspect. It is also highly recommended that 6 clutches be used in direct although a minimum of 4 must be used. Set clearance at .010 per clutch minimum. (6 clutch drum assembly is available from Coan Engineering.)
4. Remove and inspect the Forward drum, making sure to maintain a minimum clearance of .025 - .040.
5. Tighten the intermediate band adjustment screw to 120 in-lbs, then back two turns (course thread adjuster) or three turns (fine thread adjuster). Install lock nut. Tighten reverse band to 120 in-lbs, back off 4 turns and tighten lock nut.
6. Install the new Manual valve body in the case, using your supplied **special manual valve** and making sure that it is properly positioned with shift lever. Proper bolt torque is crucial to the operation of this valve body. Torque the valve body to case bolts at 100 in-lbs., Torque the long filter bolts at 70 in-lbs.

7. Be sure to use the correct dipstick and tube so the fluid level will read correctly. Approximately 1/4" above the pan rail.
8. Reinstall pan using new pan gasket.
9. Discard modulator valve and modulator. Use supplied freeze plug to block modulator hole. Remove and discard governor assembly including all three sealing rings.
10. This Valve body has forward shift pattern (PRN321) and **MUST** be used with a shifter built for a forward shift pattern Valve body. Shift cable should be securely mounted only to shifter and transmission. Be absolutely positive that chassis or drive train movement will not move transmission shift lever. When a clamp on shift lever is used, it must be positioned on the shift linkage shaft so the sweep of its arc allows full and proper movement of the transmissions internal shift linkage, from park to the low gear position. Check Shifter adjustment in **ALL** selector positions.

FOR TECHNICAL QUESTIONS, PLEASE FEEL FREE TO CALL (765) 456-3957