

# TURBO ACTION

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## CHEETAH Manual/Automatic Valve Body - PRN321 Stock Pattern

Part #24144

(PRN321)  
Turbo Hydro "400"  
1965-70

**OR**

Installation Instructions

Part #24145

(PRN321)  
Turbo Hydro "400"  
1971-Up

First, READ INSTRUCTIONS CAREFULLY, THEN PROCEED TO INSTALL THE VALVE BODY KIT BY FOLLOWING EACH STEP INDIVIDUALLY.

Valve Body

Kit Includes: 1 - 24144 Valve Body 1965-70  
OR  
1 - 24145 Valve Body 1971-Up  
1 - 24114 Special Valve Body Spacer Plate  
1 - 24148C Pan Gasket  
1 - 24149 Spacer to Valve Body Gasket (Small) O.E.M. #8623561  
1 - 24150 Spacer to Case Gasket (Large) O.E.M. #8623563

STEP #1: Transmission should be cool before installing. Be sure vehicle is secure to prevent rolling. Drain oil by carefully removing transmission pan bolts. Recommend leaving a couple of bolts partially attached until some of the oil has drained.

STEP #2: Remove transmission filter. If 1968 or newer model, remove retaining bolt, hold pipe that filter is connected to and then pull filter off.

STEP #3: Before loosening valve body, note how the gear selector lever connects to the manual control valve in the valve body. Fig. #3.

STEP #4: Remove bolts from valve body and then **carefully** remove governor tubes and valve body together. **Avoid** bending governor tubes. If 1970 or newer model, disconnect white wire from the valve body. Also, **be sure** the manual control valve **doesn't slide out**.

**NOTE: Sometimes the Intermediate Servo will fall out when removing the valve body, Fig. #2.**

STEP #5: Remove the two bolts holding the downshift solenoid and valve body spacer plate. Make sure you support the spacer plate with your hand. Lower the plate with steel balls **carefully**.

STEP #6: Using Special Valve Body Spacer Plate #24114, lay one of the new Valve Body Gaskets at a time behind plate and be sure all holes are open. Place petroleum jelly on case side of Valve Body Spacer Plate and place larger gasket on that side being sure all holes line up.

STEP #7: Install Balls #1 and #6 on new plate #24114 with petroleum jelly, Fig. #4. If **1965-70**, **discard Balls #2, #3, #4 and #5**. If **1987-Up**, **discard Balls #2, #3, #4, #5 and #7**.

STEP #8: Remove manual control valve from old valve body and place into your new valve body.

- STEP #9:** Remove governor tubes from old valve body. *Note* on some late models, the governor tube closest to driver's side will have a little filter screen in the end that goes into the case. Place governor tubes in proper position on the new valve body.
- STEP #10:** Sometimes the intermediate front servo will fall out when removing the old valve body. See Fig. #2 for proper reinstallation.
- STEP #11:** Carefully place Special Valve Body Spacer Plate #24114, Ball #1 and Ball #6 and the new Spacer to Case Gasket #24150 (large) back into transmission. Bolt up downshift solenoid to hold plate #24114 in place, *but only tighten by hand "lightly"*.
- STEP #12:** Install valve body with governor tubes and new Spacer to Valve Body Gasket #24149 (small) into transmission. **CAUTION:** Before tightening bolts in valve body, be sure to line up the manual control valve as mentioned in STEP #3, otherwise the valve might get bent, because the valve slides back and forth, Fig. #3. *Be sure* tubes are all the way in. Torque all bolts 8-10 ft/lbs. **including downshift solenoid.** If 1970 or newer model, hook up white wire on valve body.
- STEP #13:** Install new transmission oil filter being sure of a good fit. **CAUTION:** If filter is not properly installed, a loss of oil pressure will occur. Recommend using our filter #24006 (1965-67) models and #24011 (1968-Up) models. If 1968 or newer models, reinstall retaining bolt.
- STEP #14:** Replace old pan gasket with #24148C and bolt up transmission oil pan. Refill transmission with a good brand of Dexron/Mercon or Type F transmission fluid. Warm transmission up and *select all gears with foot on brake.* Place gear selector in park. Then check to make sure transmission level is on the add mark. Take vehicle out and drive 2 or 3 miles. Then *recheck* oil level. Add oil if necessary to bring to the full mark. **DO NOT OVERFILL!**

**Fig. #1**

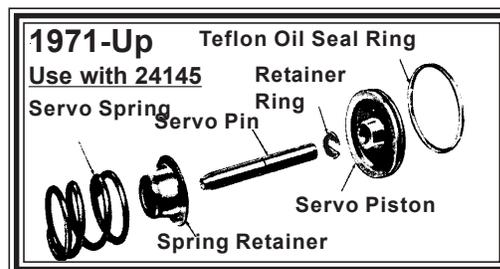
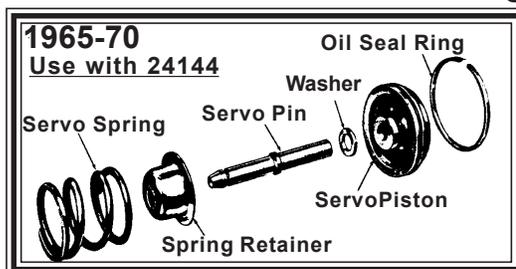


1965-1970 Inter. Servo & 2-3 Acc



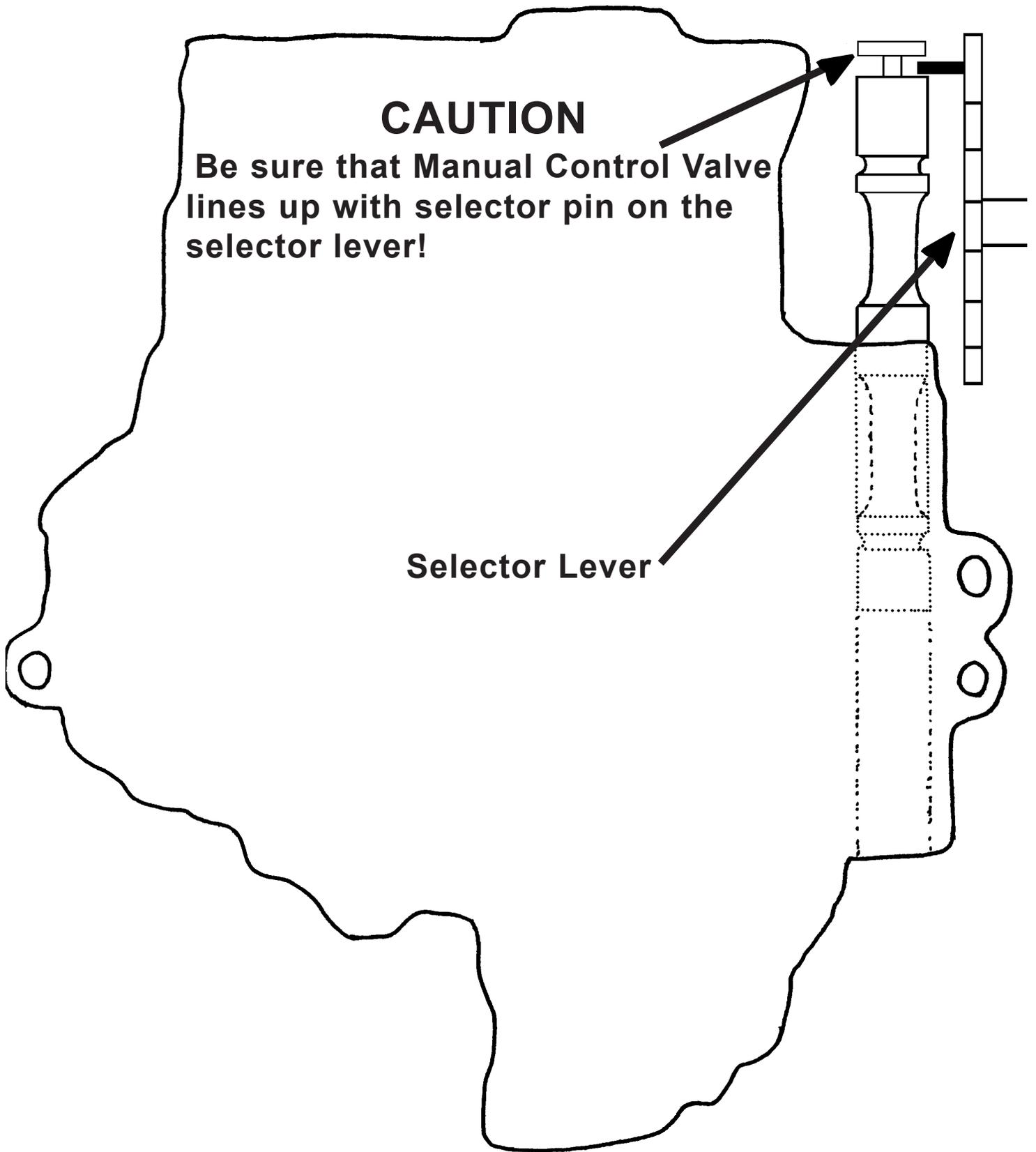
1971-Up Inter. Servo & 2-3 Acc

**Fig. #2**



**SPECIAL INTERMEDIATE FRONT SERVO NOTE**

Sometimes the Intermediate Front Servo will fall out when lowering the spacer plate. If so, be sure to reinstall per drawing.



**Fig. #3**

# Steel Ball Locations

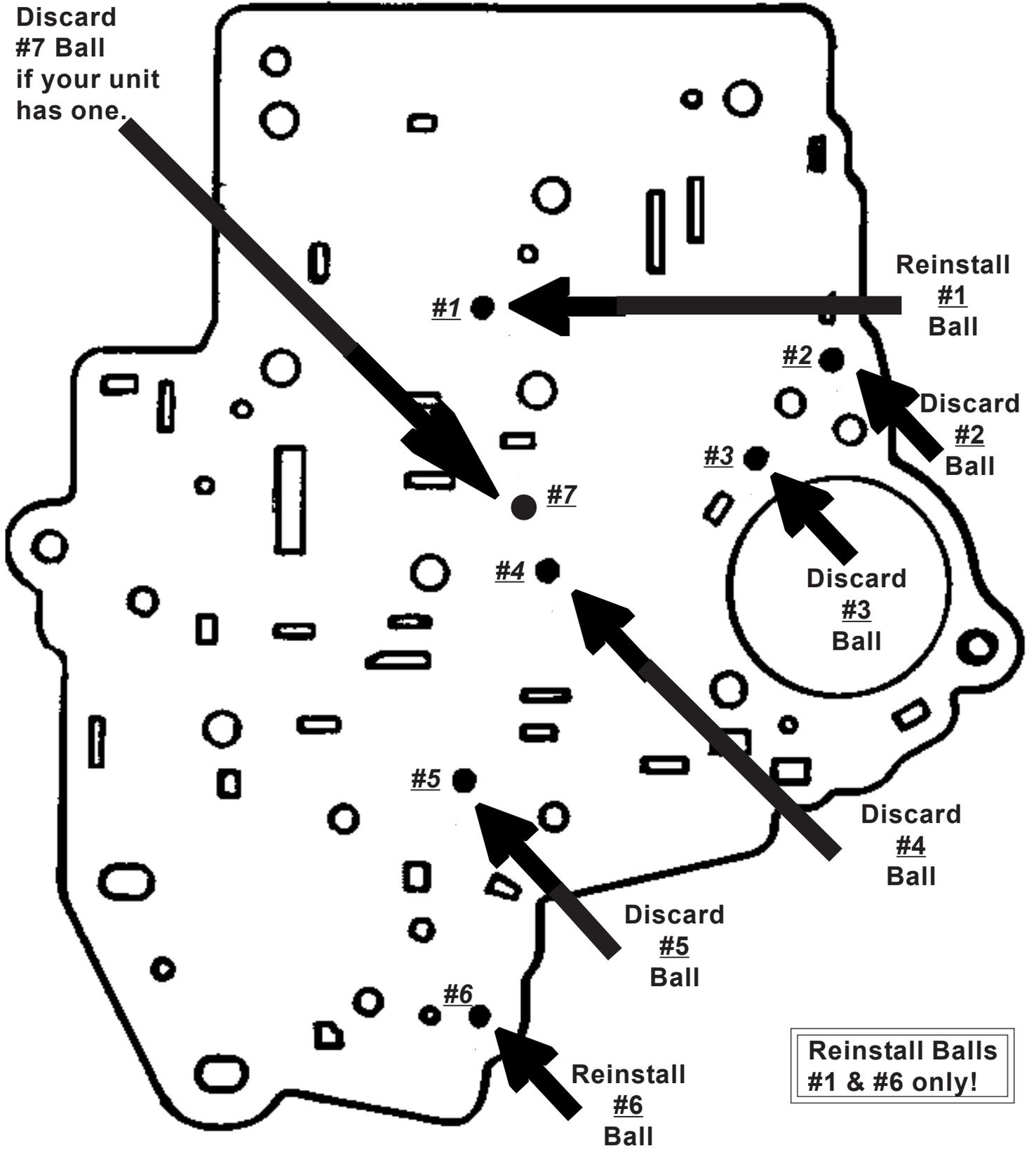


Figure #4