

TURBO ACTION

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CHEETAH MANUAL PRO STREET VALVE BODY (PRN321)

Part #23252 (Full Engine Braking)

CHEETAH MANUAL VALVE BODY (PRN321)

Part #23253 (No Engine Braking in 1st)

Fits: Turbo Hydro "350" & "375B" 1969-86 (Non-Lockup)

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

Includes:	1	-	Valve Body
	1	-	23091 Special Valve Body Spacer Plate
	1	-	23097 Spacer to Valve Body Gasket (Small)
	1	-	23098 Spacer to Case Valve Body Gasket (Large)
	1	-	23138 3/8" Set Screw
	1	-	23096P 2-3 Performance Plate
	1	-	23099C Pan Gasket
	1	-	23103 Filter Gasket

STEP #1: Transmission should be cool before installing. Also, place gear shift selector in neutral. If vehicle is on the ground, secure so it will not roll.

STEP #2: Remove drain plug in pan and drain oil. Olds., Buick and Pontiac do not have drain plug, and therefore, must be drained by dropping transmission pan. Recommend leaving a couple of bolts attached until most of the oil has drained.

STEP #3: Remove transmission oil filter by removing two screws.

STEP #4: Remove kickdown valve wire by pulling pin out of kickdown lever in valve body.
NOTE: These pieces can be discarded as they are no longer used (Fig. #1).

STEP #5: Before removing valve body, note position of the gear shift linkage hooked to the valve body (Fig. #2). Remove 18 bolts from valve body. **CAREFULLY** lower valve body and at the same timeslide angled shift pin lever from gear shift selector. **DO NOT** drop valve body or manual valve with angled shift pin.

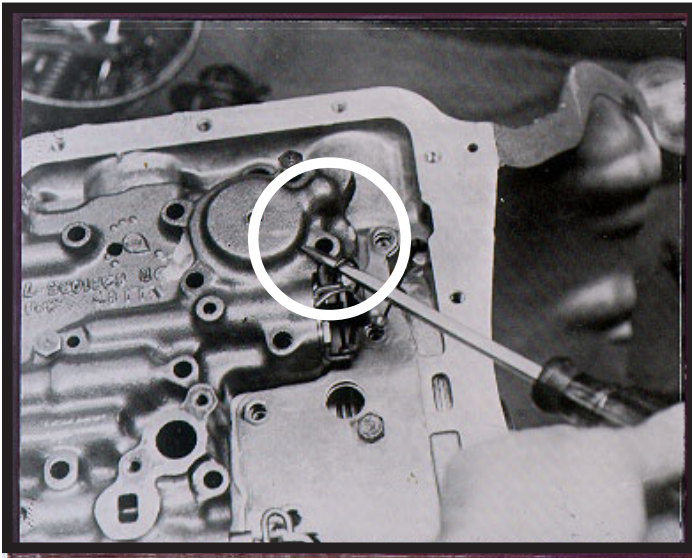
STEP #6: Holding stock valve body plate with your hand, remove spacer support plate bolts. **CAREFULLY** lower plate as there are four small teflon balls sitting on plate. (**NOTE: These balls can be discarded**). Also, watch that the governor screen and oil pump screen do not fall out. These screens are located in case underneath the stock valve body spacer plate. See Fig. #3 & #4. Olds., Buick and Pontiac have two governor screens in rear of case, one in each passage. Chevy has only one governor screen.

- STEP #7:** Remove the governor screen or screens from transmission case and discard (Fig. 3). Hole Letter "A" in Fig. #3 must be drilled to 19/64" (Note some models this hole is already 5/16"). DO NOT DRILL HOLE OVER 3/4" deep.
- STEP #8:** Tap Letter A hole 3/8"-16. Install Pt. #23138 set screw being sure it is below surface of the case.
- STEP #9:** Sometimes the front servo will fall out when lowering the spacer plate in STEP #6. If so, be sure to reinstall per Fig. #5.
- STEP #10:** Using petroleum jelly, place oil pump screen into place (Fig. #4).
- STEP #11:** Install Special Valve Body Spacer Plate #23091 with Spacer to Case Gasket #23098 (large gasket). Carefully raise Special Valve Body Spacer Plate with gasket up into transmission with one hand and with the other hand, raise 2-3 Performance Plate #23096P and Spacer Support Plate into position. Note: 2-3 Performance Plate must go between Special Valve Body Spacer Plate and Spacer Support Plate. Start all seven bolts in plate, but do not tighten as these bolts must be loose in order to line up valve body bolts. **CAUTION:** Be sure that the Spacer Support Plate has no rough edges. If it does, file smooth. **NOTE: NO BALLS required with this valve body.**
- STEP #12:** Before lifting new Valve Body into transmission, place manual valve into it using the manual valve from your old valve body.
- STEP #13:** Lift Valve Body and Spacer to Valve Body Gasket #23097 (small gasket) up into place being sure to line up gear shift selector pin. Start all bolts making sure valve body is in its proper location. Tighten valve body bolts and **spacer support plate bolts from the middle out.** Tighten to 8-10 ft./lbs.
- STEP #14:** Replace transmission oil filter with a Turbo Action #23008 filter back into transmission making sure that the holes in the filter line up with the valve body holes. **DON'T FORGET NEW PAPER GASKET BETWEEN FILTER AND VALVE BODY #23103.** Filter installed properly will have the word "Front" stamped on it (towards motor).
- STEP #15:** Disconnect modulator vacuum line and block manifold outlet. **Must leave modulator valve in transmission.** Special Aluminum Plug #23130 available to replace modulator.
- STEP #16:** Install a Turbo Action pan gasket #23099C and bolt up the oil pan. Refill transmission with a good brand of Dexron or Type "F" transmission fluid. Warm transmission up and place in all gears. Then check to make sure transmission level is on the add mark. The shift pattern for #23252 and #23253 is PRN321 and both require manual shifting. Valve Body #23252 has engine braking in all gears. Valve Body #23253 has no engine braking in low (first) gear. Take vehicle out and drive 2-3 miles. Then recheck oil level. Add if necessary. **BUT NEVER FILL OVER THE FULL MARK.**
- STEP #17:** These options can be made if transmission is being overhauled and using this valve body:
1. Remove center seal located in the direct clutch drum. This will make the 2-3 shift far better.
2. Remove governor assembly.
3. Remove kickdown cable, but plug hole in case.

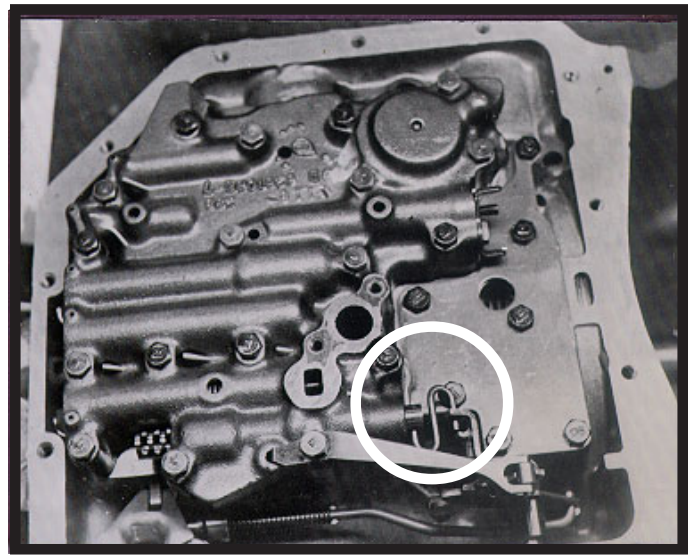
WATER BURNOUT INSTRUCTIONS

These suggestions will extend the life of the roller (sprag) clutch in your converter and transmission too. **Please read carefully the following suggestions for your transmission:**

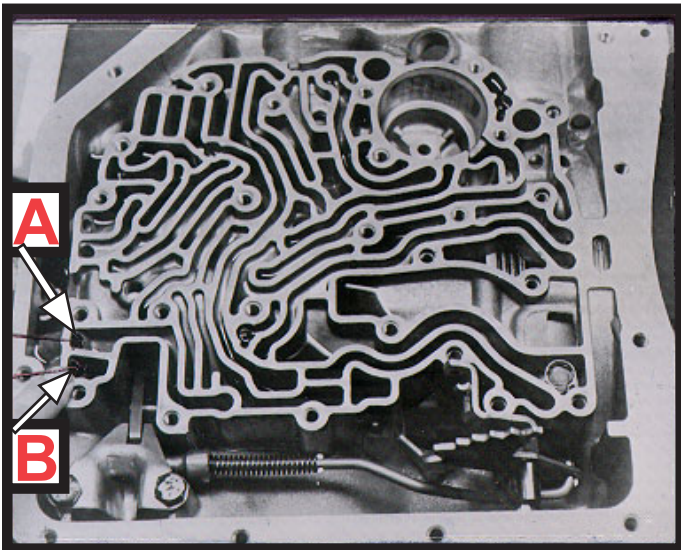
All water burnouts suggest starting in first or second, but get into high gear before coming out of the water. **Be sure to deaccelerate** as you come out of water or power burnout to the line **being sure tires never grab dry pavement.**



**FIGURE #1
KICKDOWN ASSEMBLY**

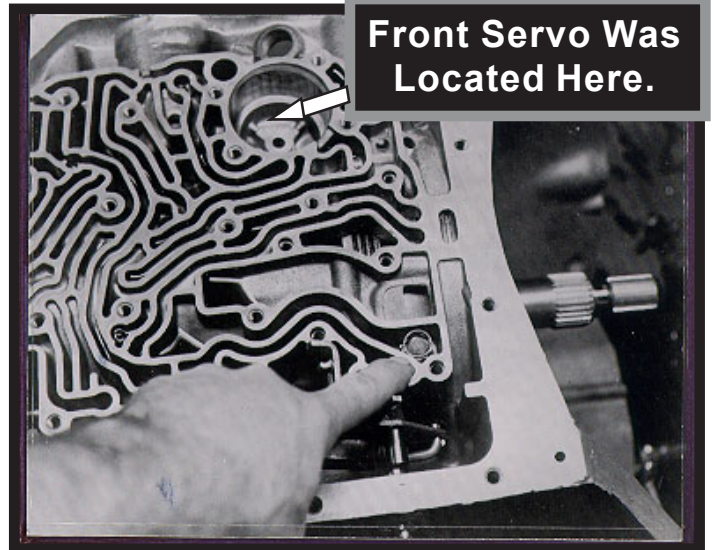


**FIGURE #2
GEAR SHIFT LINKAGE**



**FIGURE #3
GOVERNOR SCREEN LOCATIONS**

A - Chevy Only
A & B - Buick, Olds., Pontiac



**FIGURE #4
OIL PUMP SCREEN**

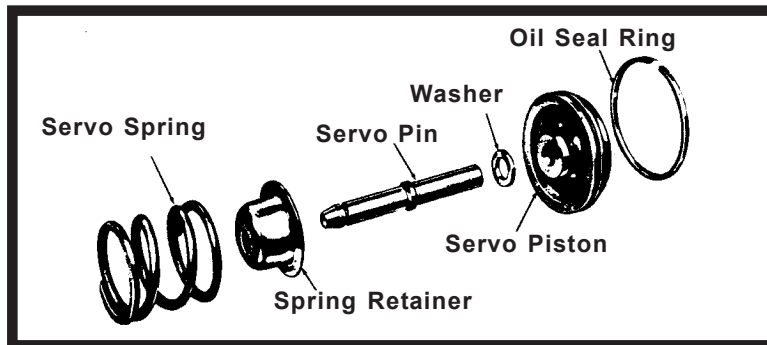


FIGURE #5

Sometimes the front servo will fall out when lowering the spacer plate in Step #6. If so, be sure to reinstall per above.

CAUTION: If Spacer Support Plate is not put back per drawing below, you will have a no reverse/no high gear condition, which means you didn't put Spacer Support Plate back.

**Spacer Support Plate
MUST BE REINSTALLED**

