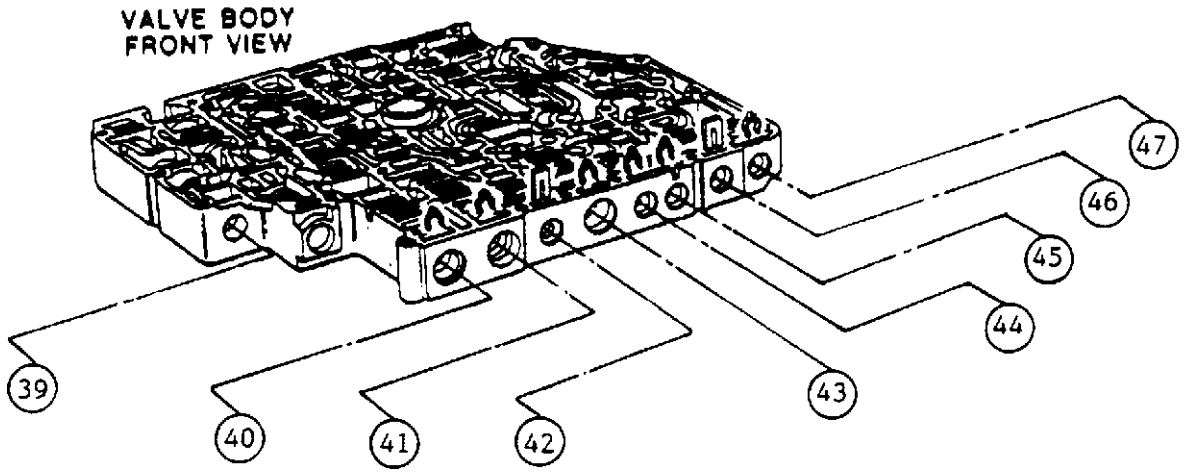
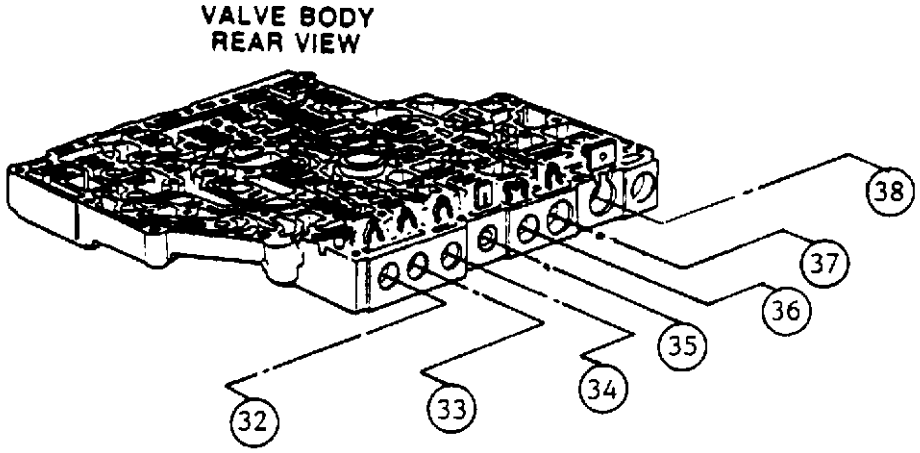
AXOD VALVE BODY BORE NUMBERS

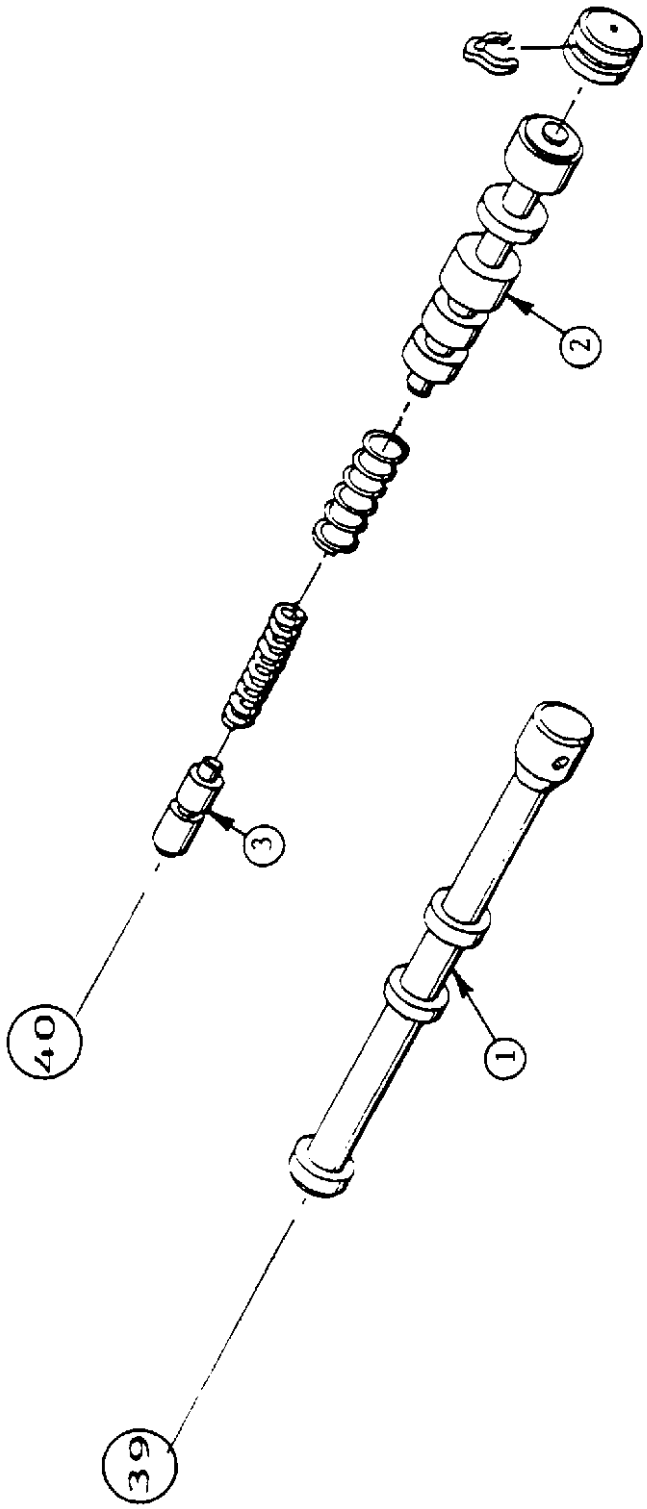




ON THIS PAGE WE HAVE ASSIGNED NUMBERS TO ALL OF THE VALVE BODY BORES AND RE-DRAWN THE VALVES AND SPRINGS IN THEIR PROPER LOCATIONS, WITH EACH VALVE ORIENTED PROPERLY, AND IDENTIFIED, AS SHOWN ON THE FOLLOWING PAGES. "ALL" OF THE MANUALS PRESENTLY IN PRINT ARE WRONG.

USE THIS BULLETIN TO PROPERLY ASSEMBLE THE AXOD VALVE BODY.

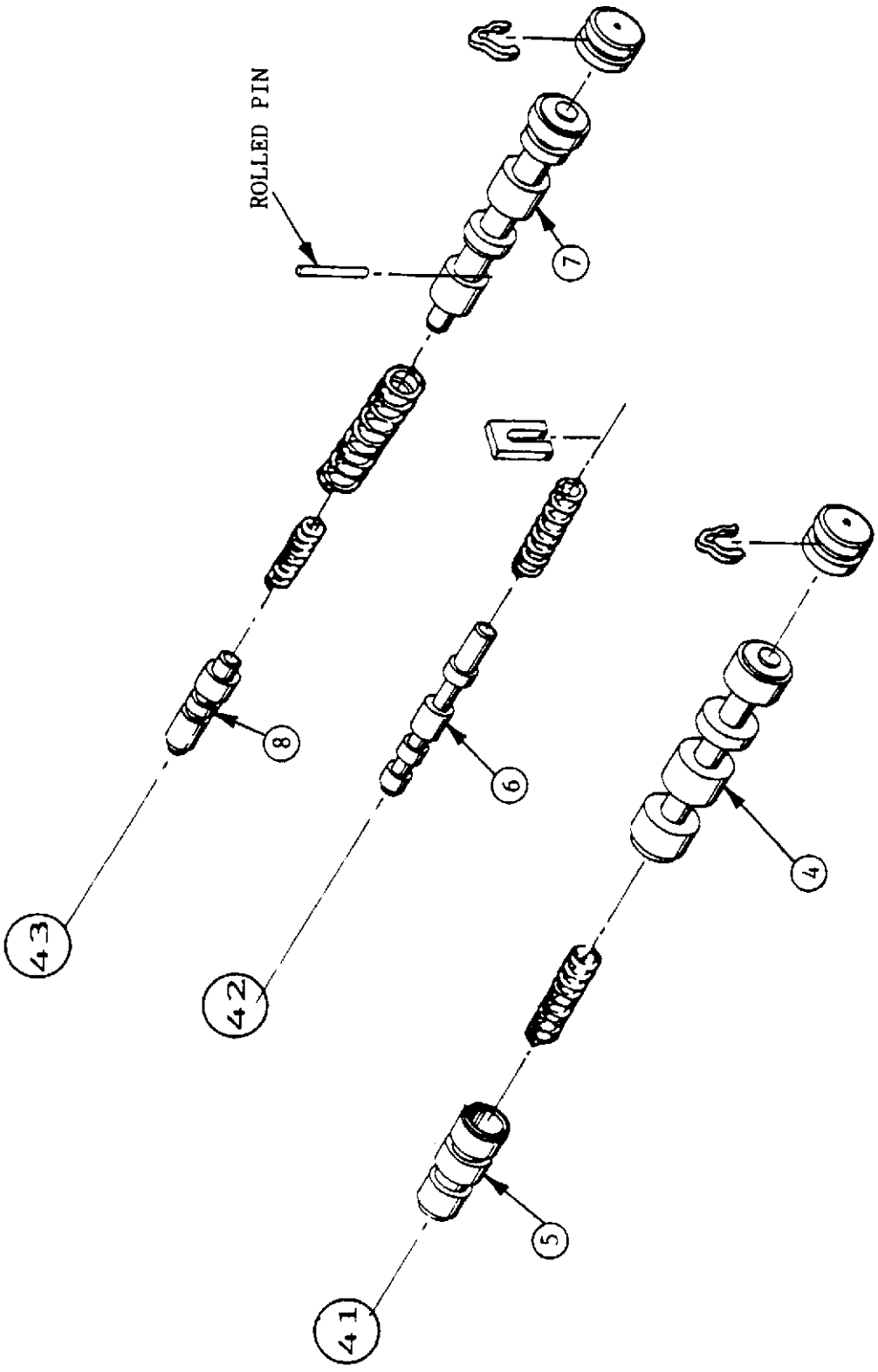
Figure 1



1. MANUAL VALVE - Connected mechanically to the shift selector lever. Directs line pressure to the various circuits depending on the range selected by the driver.

2&3. 2-3 SHIFT AND 2-3 TV MODULATOR VALVES - Shifts the transaxle from second to third or from third to second gears depending on governor, line, kickdown and TV pressures.

Figure 2

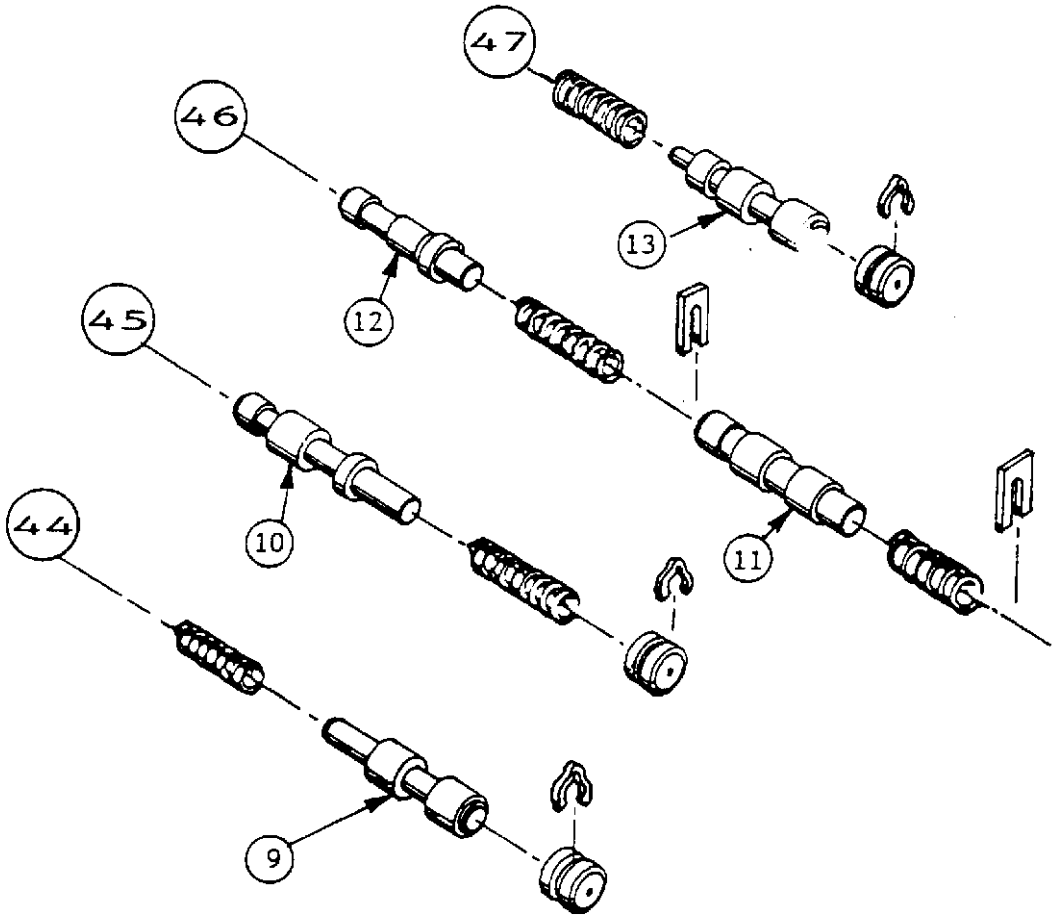


4&5. 1-2 SHIFT AND 1-2 THROTTLE DELAY VALVES - Shifts the transaxle from first to second gears depending on governor, line, kickdown and TV pressure.

6. 2-1 SCHEDULING VALVE - Schedules the 2-1 down shift in manual low.

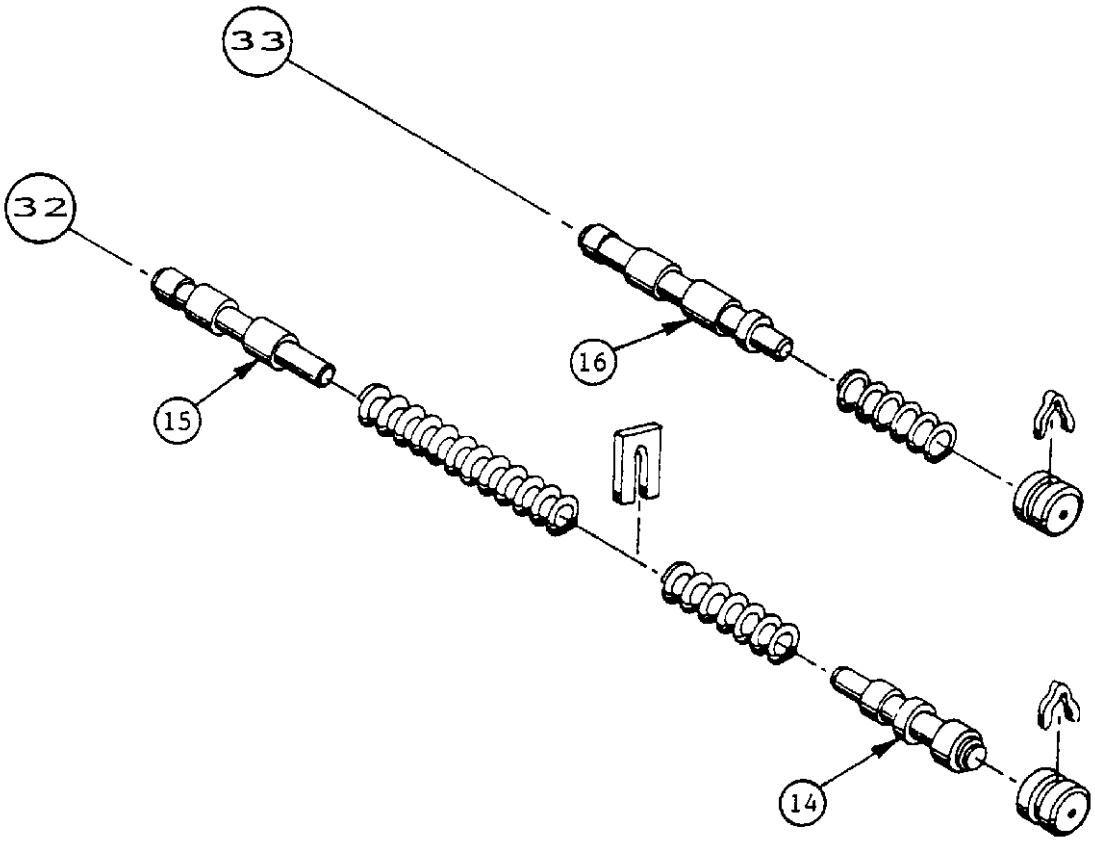
7&8. 3-4 SHIFT AND 3-4 TV MODULATOR VALVES - Shifts the transaxle from 3rd to 4th or from 4th to 3rd gears depending on governor line and TV pressures.

Figure 3



9. 2-4 INHIBIT VALVE - Prevents a 2-4 upshift by directing line pressure to hold the 3-4 shift valve in the down shifted position whenever the direct clutch circuit is not pressurized.
10. 3-2 CONTROL VALVE - Controlled by governor pressure, and controls the timing of the 3-2 downshift by regulating the rate at which the direct clutch releases and the 1-2 band applies.
11. TV LIMIT VALVE - Limits TV pressure to a maximum of 82-87 PSI.
12. N/D ENGAGEMENT VALVE - Controls the orifices used to apply the 1-2 band for a N/D engagement by absorbing some of the apply oil during the engagement.
13. 2-3 SERVO REGULATOR VALVE - Regulate 1-2 servo apply pressure controlling the action of 1-2 servo release as an accumulator for the 2-3 shift.

Figure 4

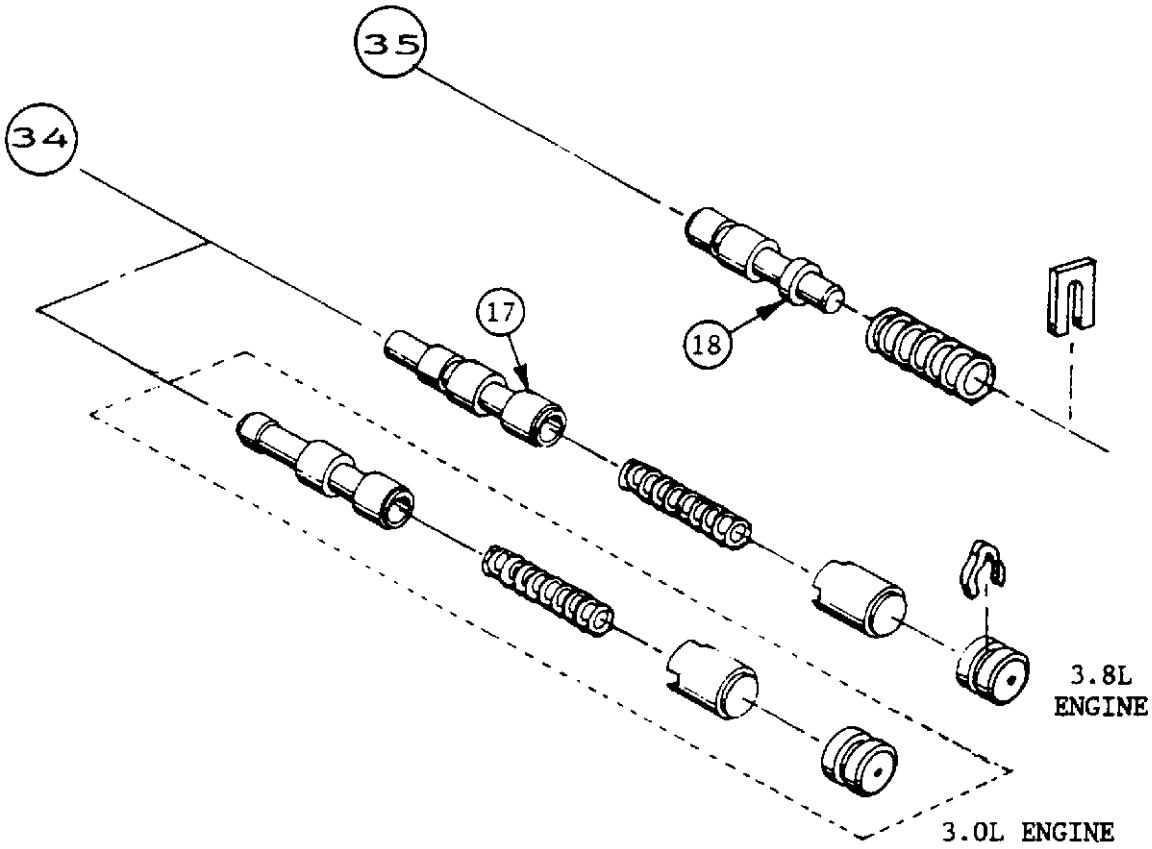


14. TV/LINE MODULATOR VALVE - Modifies TV pressure for control of line pressure to more closely match engine torque and transaxle capacity requirements.

15. 4-3 SCHEDULING VALVE - Prevents fourth gear operation at high TV pressure.

16. BACKOUT VALVE - Controls the orifices used for the 2-3 and 3-4 upshifts based on the backout signal from the manual valve. Also prevents a 3-2 downshift at closed throttle.

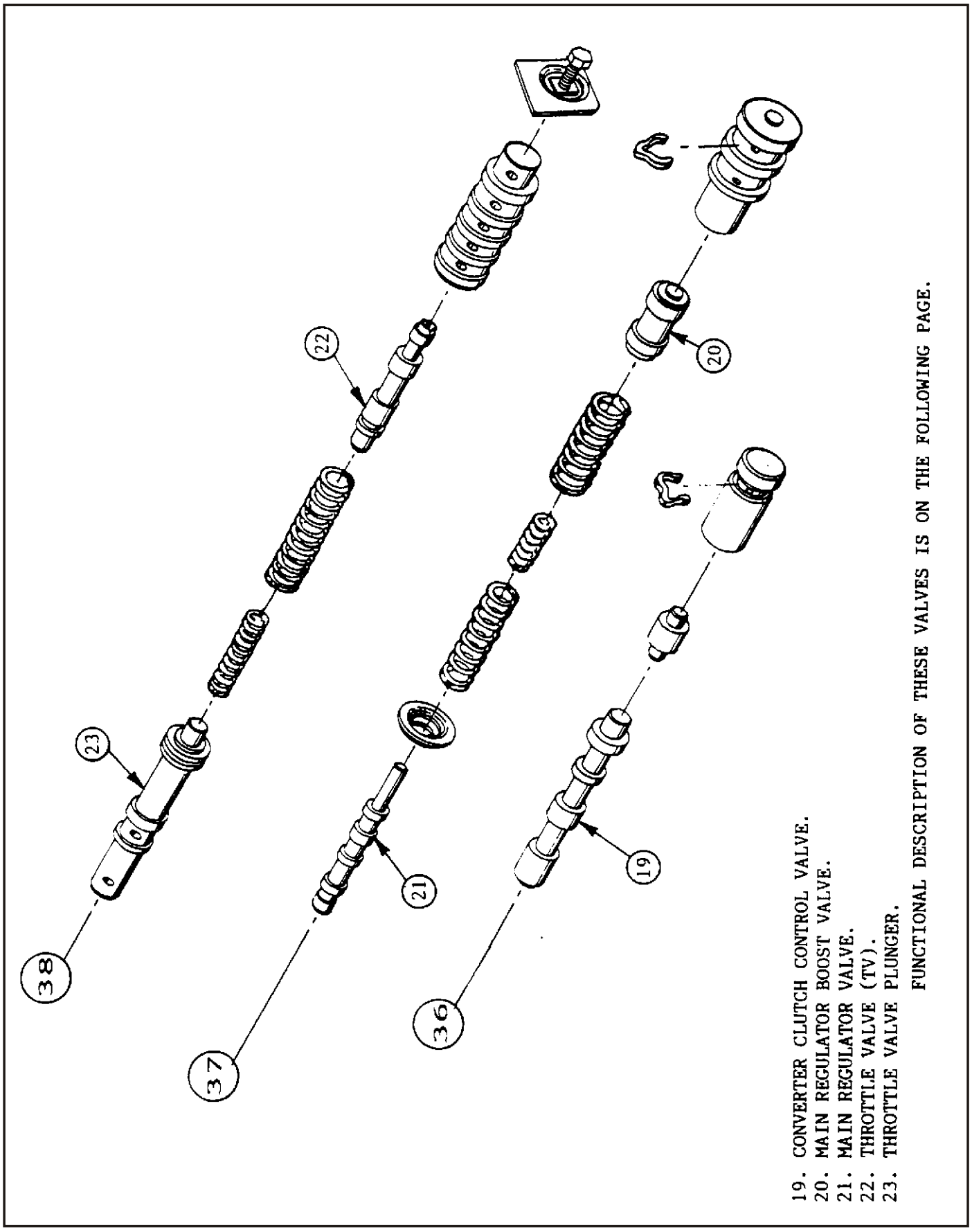
Figure 5



17. ACCUMULATOR REGULATOR VALVE - Regulates 1-2 and 3-4 accumulator back pressure proportional to line pressure.
    NOTE: Notice that there are two different valves found in this bore, one type for 3.0L engines, and one type for 3.8L engines.

18. CONVERTER CLUTCH REGULATOR VALVE - Limits converter clutch apply pressure to a maximum of 100 PSI.

Figure 6


19. CONVERTER CLUTCH CONTROL VALVE.
20. MAIN REGULATOR BOOST VALVE.
21. MAIN REGULATOR VALVE.
22. THROTTLE VALVE (TV).
23. THROTTLE VALVE PLUNGER.
FUNCTIONAL DESCRIPTION OF THESE VALVES IS ON THE FOLLOWING PAGE.
38
23
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37
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Figure 7

19. CONVERTER CLUTCH CONTROL VALVE - Exhausts or pressurizes the converter clutch circuit to apply or release the clutch based on the state of converter clutch solenoid pressure (Signal Oil). Regulates converter clutch pressure proportional to solenoid pressure during release of the converter clutch. Controls lube and cooler flow orifices based on the state of the converter clutch

20. MAIN REGULATOR BOOST VALVE - Exerts a force on the main regulator valve controlling line pressure based on reverse and TV/Line modulator pressures.

21. MAIN REGULATOR VALVE - Regulates line pressure by controlling pump output. Controlled by cutback (L234) signal, spring preload, and the force exerted by the main regulator boost valve.

22. THROTTLE VALVE (TV) - Regulates TV pressure proportional to throttle plunger position, or throttle opening.

23. THROTTLE PLUNGER - Mechanically connected to the accelerator pedal, and as the pedal is depressed, the plunger compresses the TV plunger spring causing the throttle valve to increase TV pressure. The plunger position also controls the opening of the backout and kickdown ports.