



# Technical Service Information

## FORD AX4N

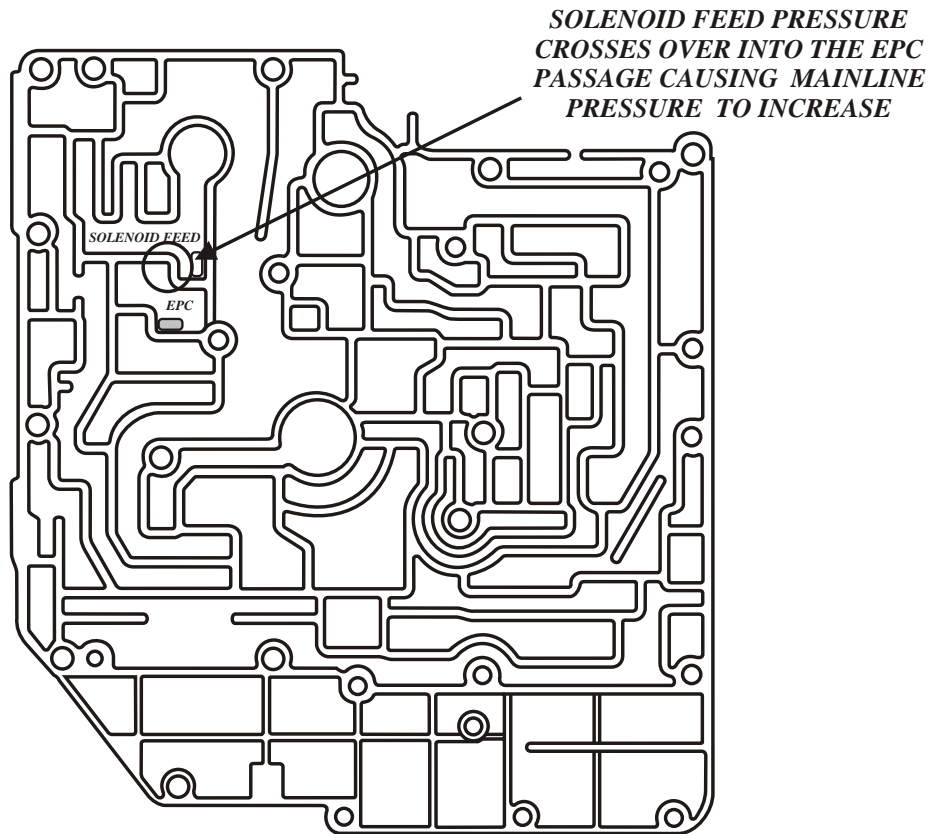
### 1994 - 1997 HARSH UPSHIFTS AND DOWNSHIFTS

**COMPLAINT:** After overhaul, some Ford Motor Company vehicles 1994 - 1997 that are equipped with the AX4N Transaxle may exhibit a high Mainline and EPC pressure condition, along with *No* Trouble Codes.

**CAUSE:** One possible cause may be, that during the overhaul procedure the 1998 & up Pump Plate to Valve Body Gasket may have been installed on a 1994 - 1997 Valve Body. When this happens, an opening between the Solenoid Feed circuit and the EPC circuit will allow Solenoid Feed oil to go over a worm track and enter the EPC circuit at the end of the Pressure Failsafe Valve as shown in Figure 1. This additional oil entering the EPC circuit will increase the amount of pressure in the circuit causing increased movement of the Pressure Failsafe Valve, which allows an increase of EPC pressure to enter the TV Boost Valve assembly, thus increasing the Mainline pressure. See Figure 2 for a partial hydraulic schematic. *Note: Typically when the 1998 - up gasket is installed, the gauge reading has shown to be 100 - 110 psi. engine idling, and the shift selector in the OD position.*

**CORRECTION:** Ensure that the correct Pump Plate to Valve body gasket is being used. For reference, Figure 3 shows the 1994 - 1997 Pump Plate to Valve Body gasket and the 1994 - 1997 Valve Body casting. Figure 4 shows the 1998 and up Pump Plate to Valve body gasket and the 1998 and up Valve Body casting.

## 1994 - 1997 VALVE BODY

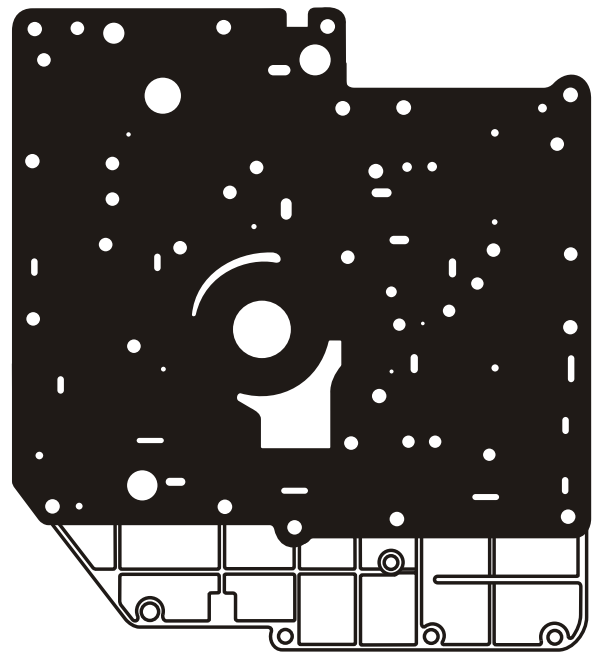


### **INCORRECT GASKET**

*1998 and up gasket on a 94-97 Valve body*



### **CORRECT GASKET**

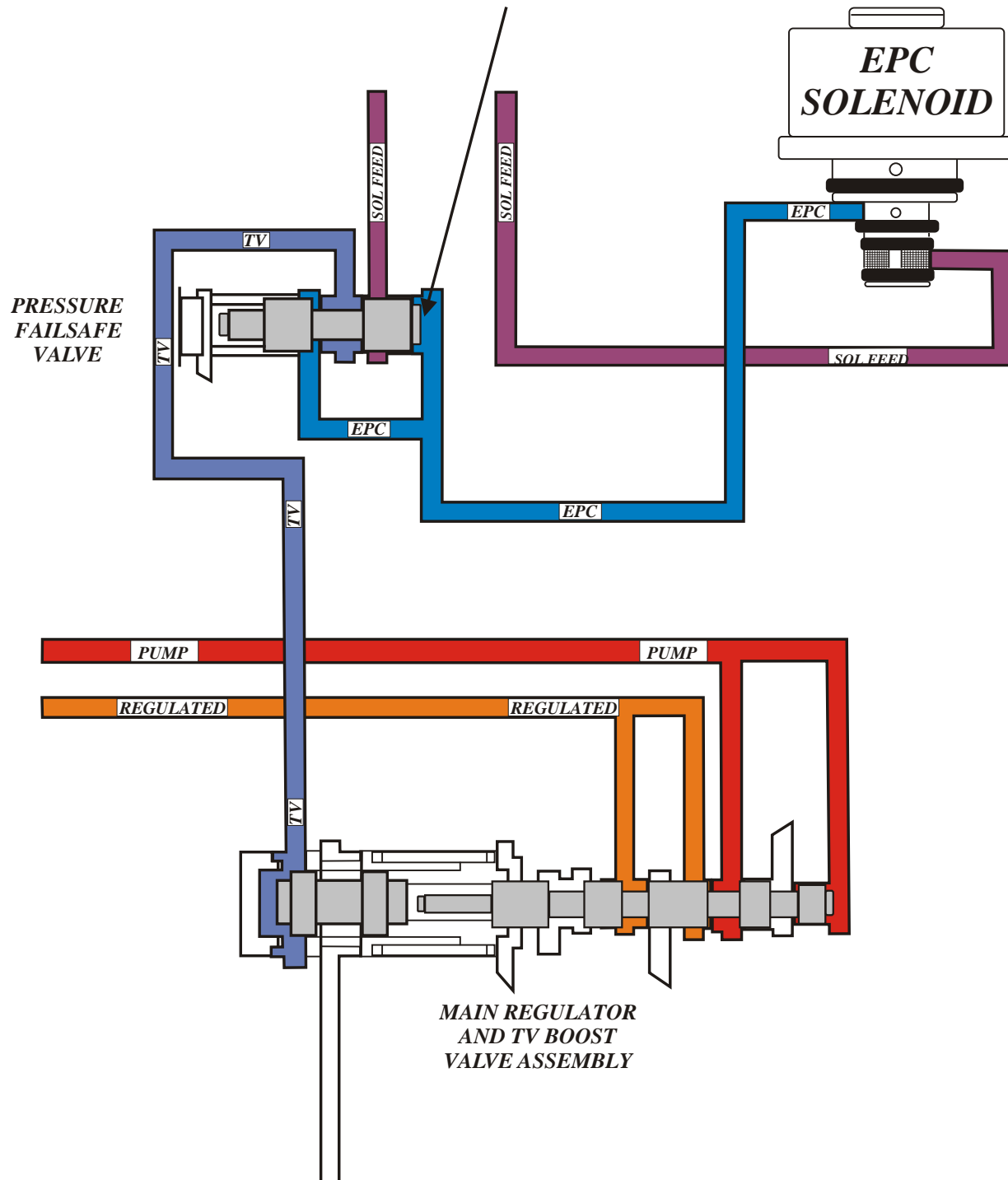


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Figure 1

## PARTIAL HYDRAULIC SCHEMATIC

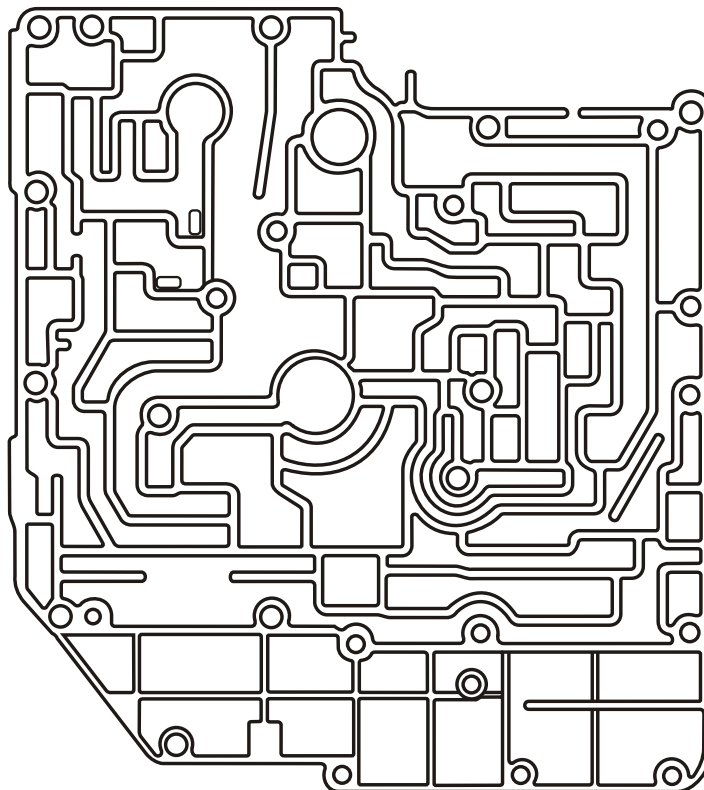
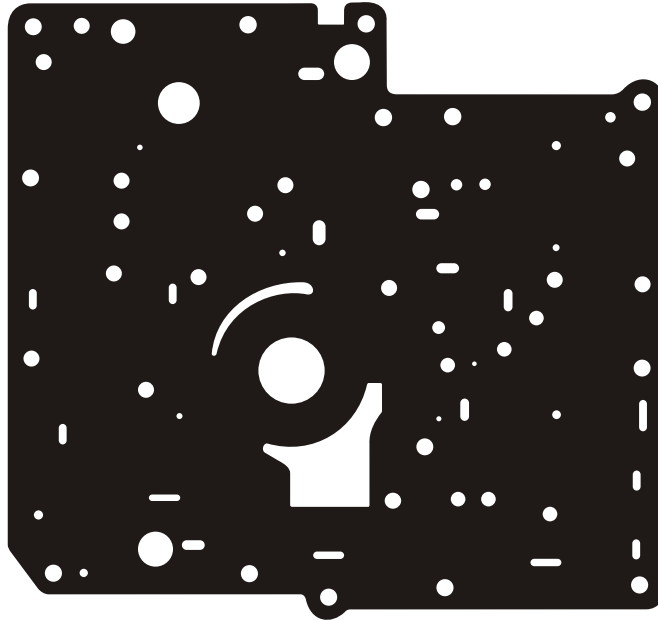
*SOLENOID FEED PRESSURE ACTS ON THIS  
END OF THE PRESSURE FAILSAFE VALVE  
CAUSING AN INCREASE OF TV PRESSURE*



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Figure 2

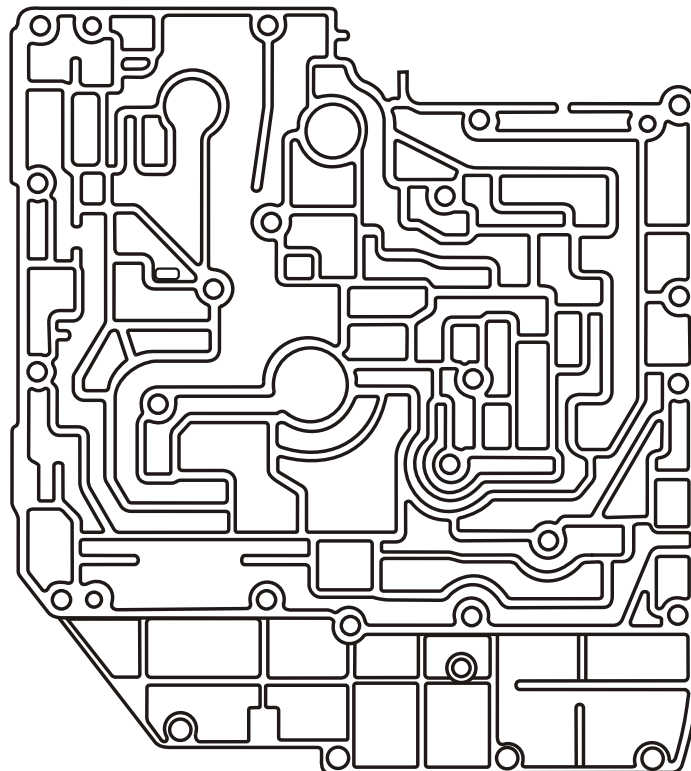
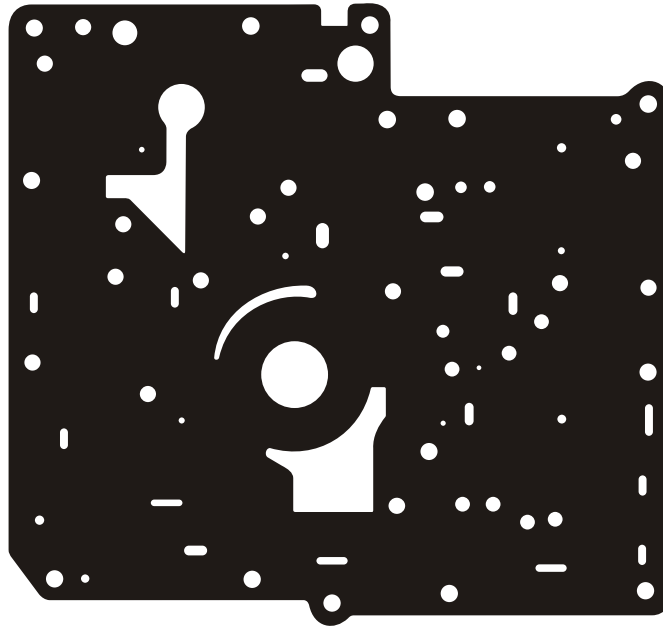
**1994-1997 GASKET AND VALVE BODY**



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Figure 3

**1998 & UP GASKET AND VALVE BODY**



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Figure 4