



Technical Service Information

FORD F4E-III VALVE BODY CHANGES

CHANGE: Beginning at the start of production for the 1998 model year, Escort and Tracer vehicles equipped with the new F4E-III transaxle recieved a totally new valve body assembly, with many engineering changes that will affect service.

REASON: Improved line pressure and torque converter clutch control.

PARTS AFFECTED:

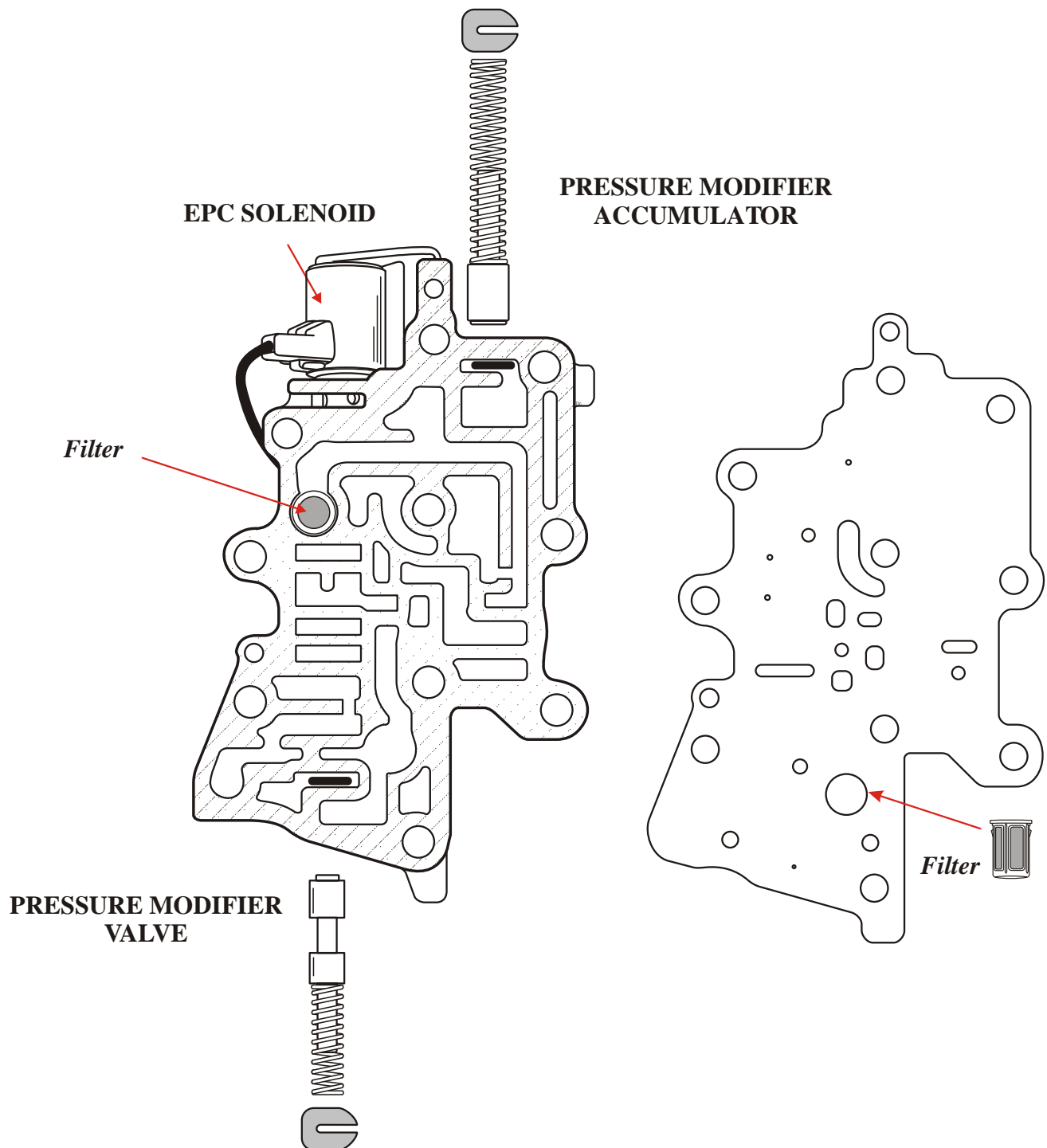
- *The pressure control solenoid, solenoid body, spacer plate and gaskets were changed . The pressure modifier valve was also changed and a spring was added to the end of the valve and an adjustable bore plug replaced the old retainer. Refer to Figure 1 for the previous design parts and Figure 2 for the new design parts as well as the new pressure modifier valve line-up. The main valve body upper side was changed to accomodate the new pressure control solenoid*
- *body and spacer plate. Refer to Figure 3.*
- *The main valve body lower side was changed to incorporate a new solenoid reducing valve.*
- *See Figure 4 for the previous design and Figure 5 for the new design.*
- *The main valve body spacer plate and gaskets were changed to accomodate the changes in the premain valve body. See Figure 6 for the previous design spacer plate and Figure 7 for the new design.*
- *The premain valve body upper side casting was changed and a screen was added in line pressure feed passage to the solenoid reducing valve. Refer to Figure 8 for previous design casting and Figure 9 for the casting change and the added screen.*
- *The premain valve body lower side and the lock-up control valve were changed. Refer to Figure 10 for the previous design lock-up control valve installation. Refer to Figure 11 for the new design lock-up control valve and its installation. NOTE: the valve is bored on the opposite side, to accomodate the new spring placement on the opposite side.*
- *The premain cover, spacer plate and gaskets were changed and the tube on the exterior was eliminated. Refer to Figure 12 to see the previous design. Refer to Figure 13 to see the new design.*
- *Refer to Figure 14 for an Oil Circuit diagram outlining the pressure control hydraulic circuit and the TCC Control Valve as well as the function of the exterior tube.*
- *Refer to Figure 15 for an Oil Circuit diagram outlining the pressure control hydraulic circuit, the added Solenoid Reducing valve and its function and the added line pressure passage to the TCC Control Valve.*

INTERCHANGEABILITY:

None of the parts listed above can be used in any previous models. However, when using the complete 1998 valve body as a service package, it will retro-fit back to previous models, equipped with the F4E-III transaxle.

F4E-III VALVE AND PASSAGE I.D.

**"97" PRESSURE CONTROL SOLENOID BODY
AND SPACER PLATE**

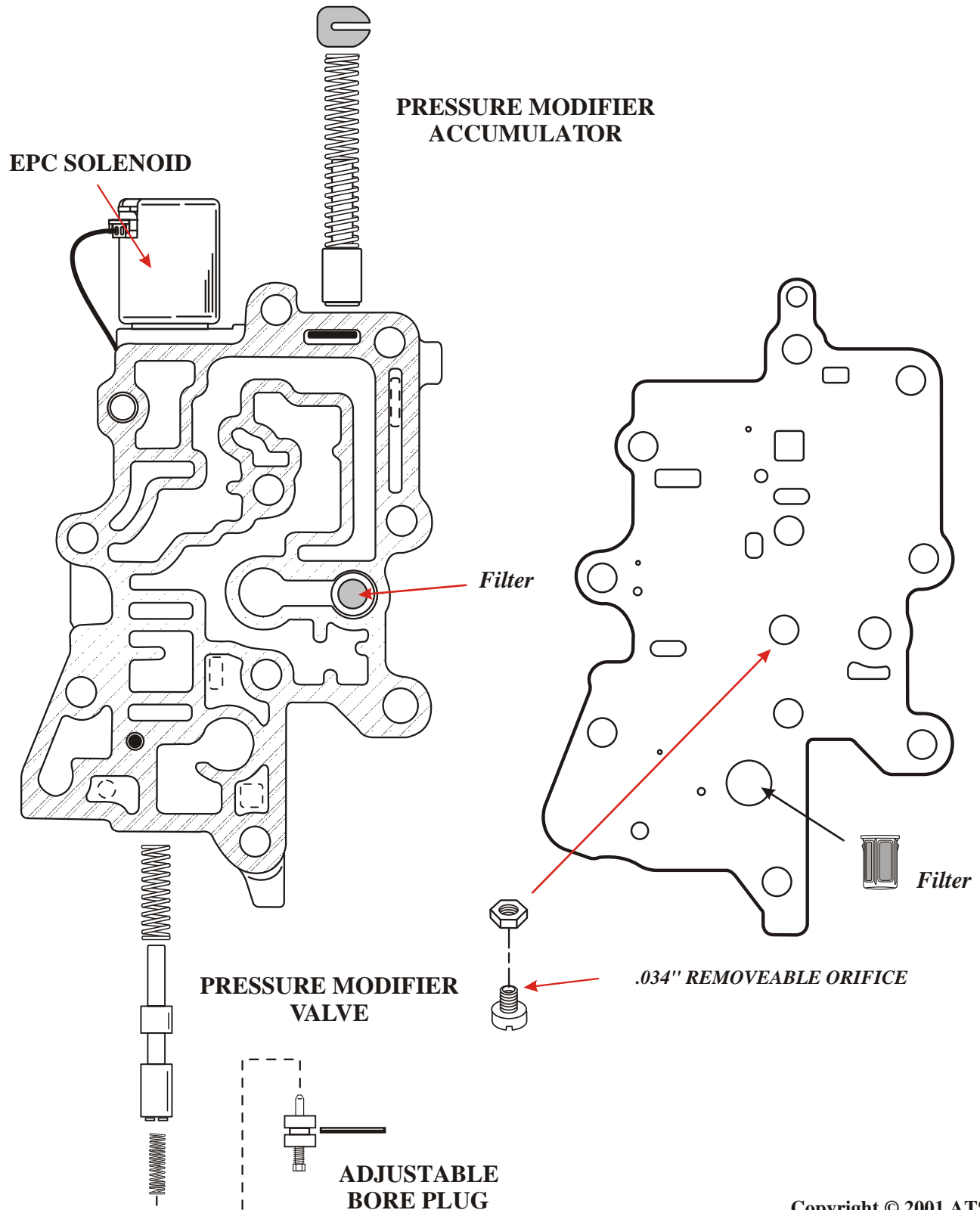


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Figure 1

F4E-III VALVE AND PASSAGE I.D.

"98" PRESSURE CONTROL SOLENOID BODY AND SPACER PLATE

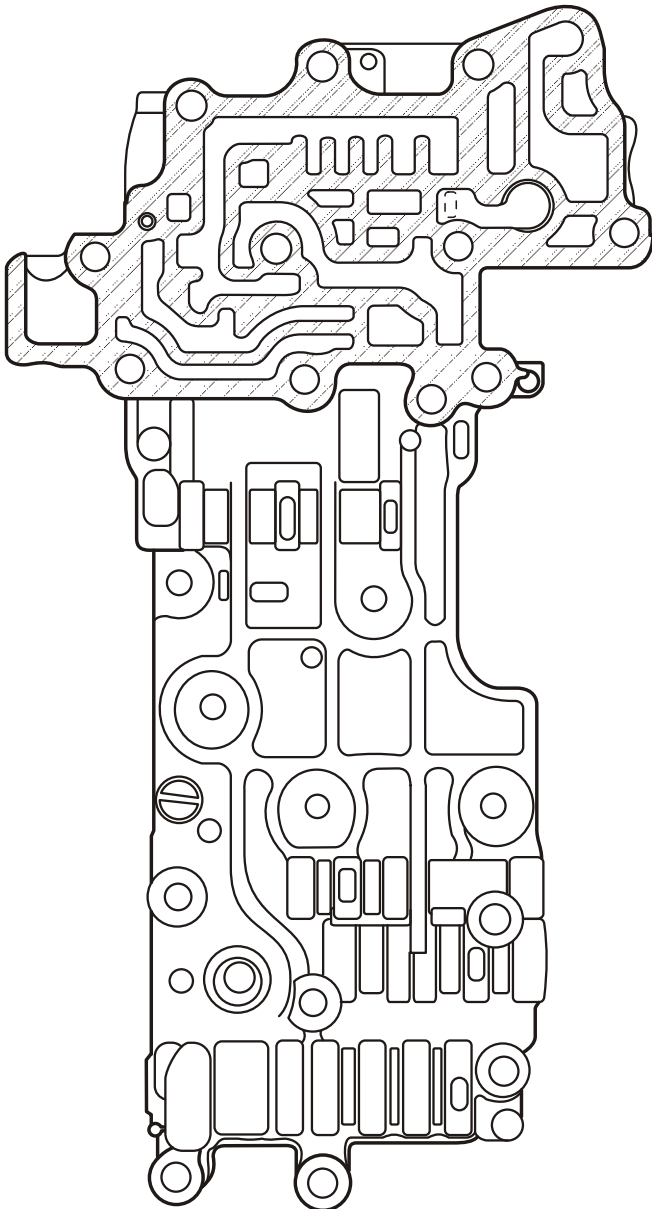


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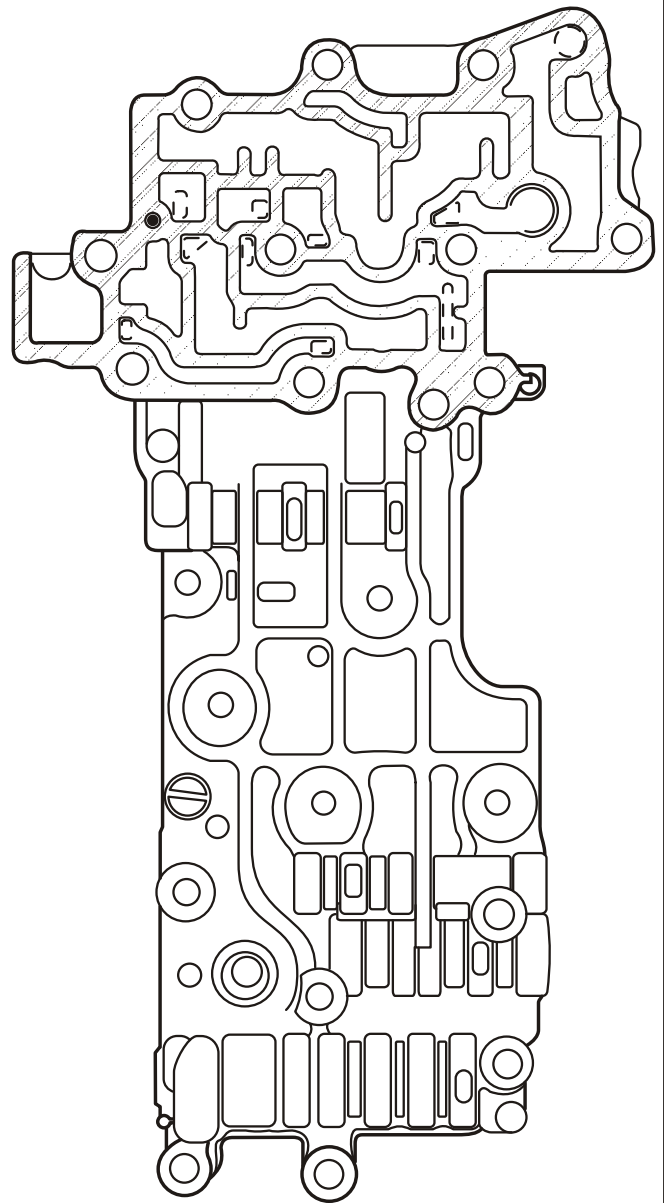
Figure 2

F4E-III VALVE AND PASSAGE I.D.

"97" MAIN VALVE BODY (UPPER)



"98" MAIN VALVE BODY (UPPER)

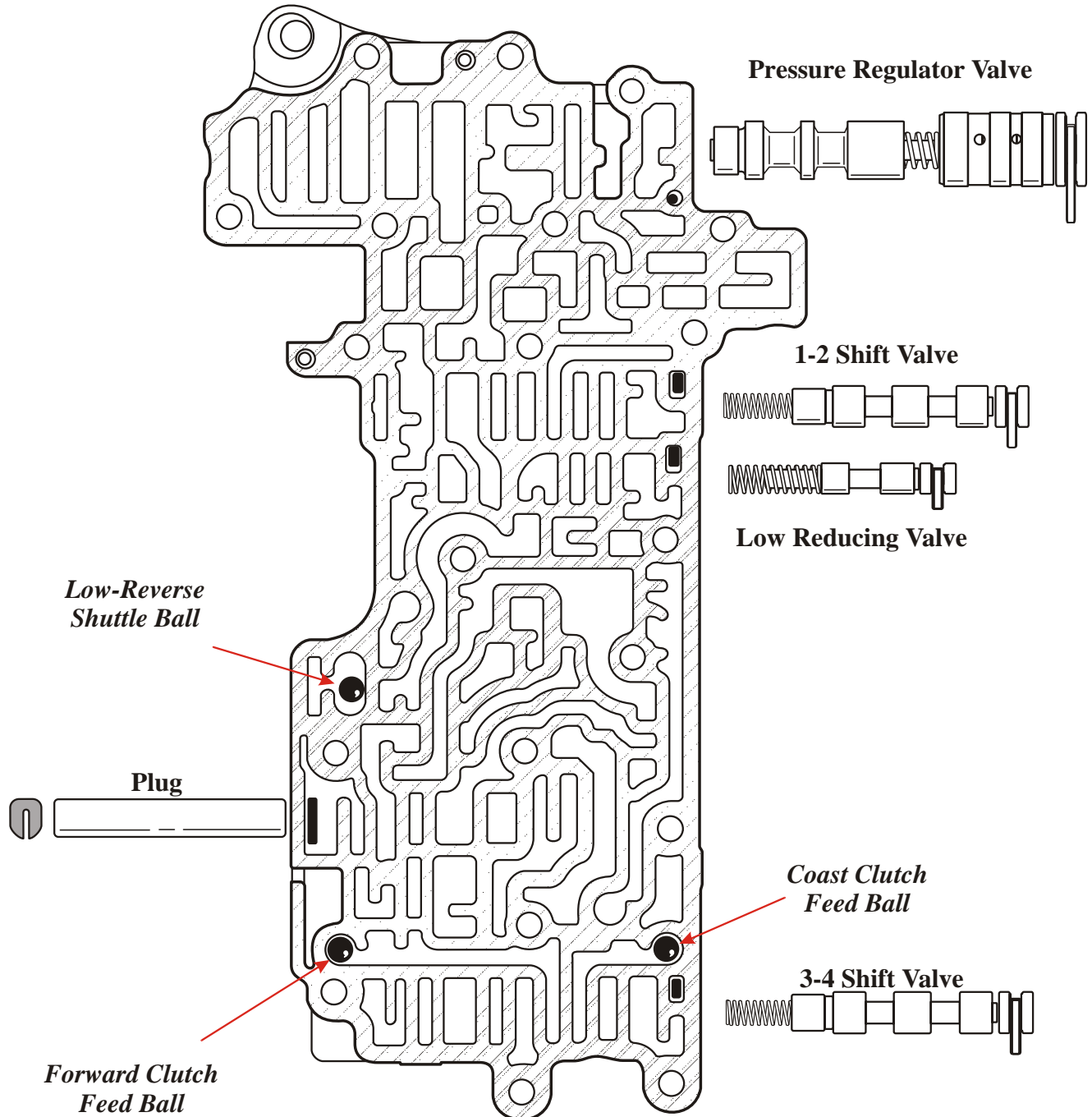


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Figure 3

F4E-III VALVE AND PASSAGE I.D.

"97" MAIN VALVE BODY (LOWER)

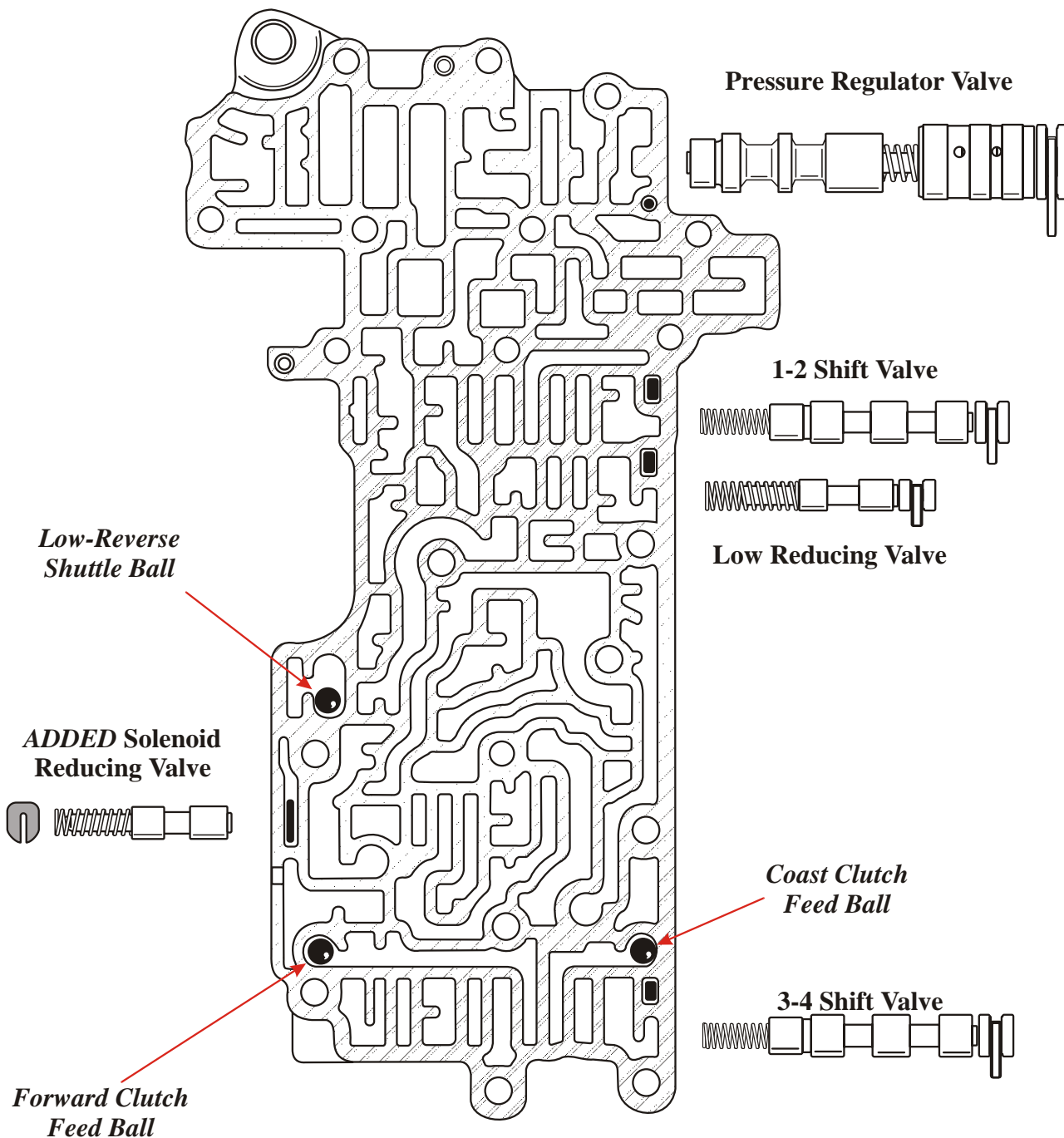


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Figure 4

F4E-III VALVE AND PASSAGE I.D.

"98" MAIN VALVE BODY (LOWER)

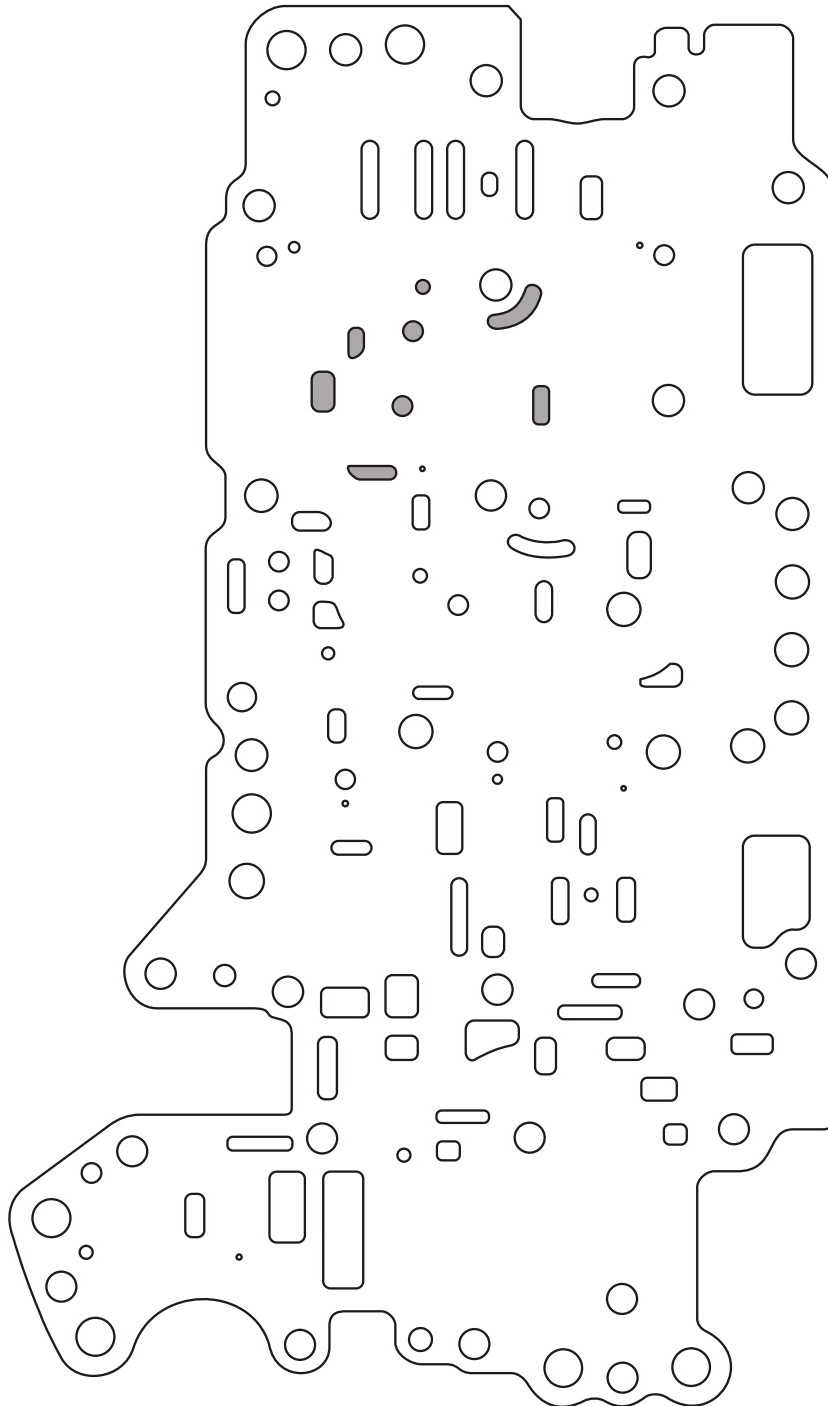


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Figure 5

F4E-III VALVE AND PASSAGE I.D.

"97" MAIN VALVE BODY SPACER PLATE

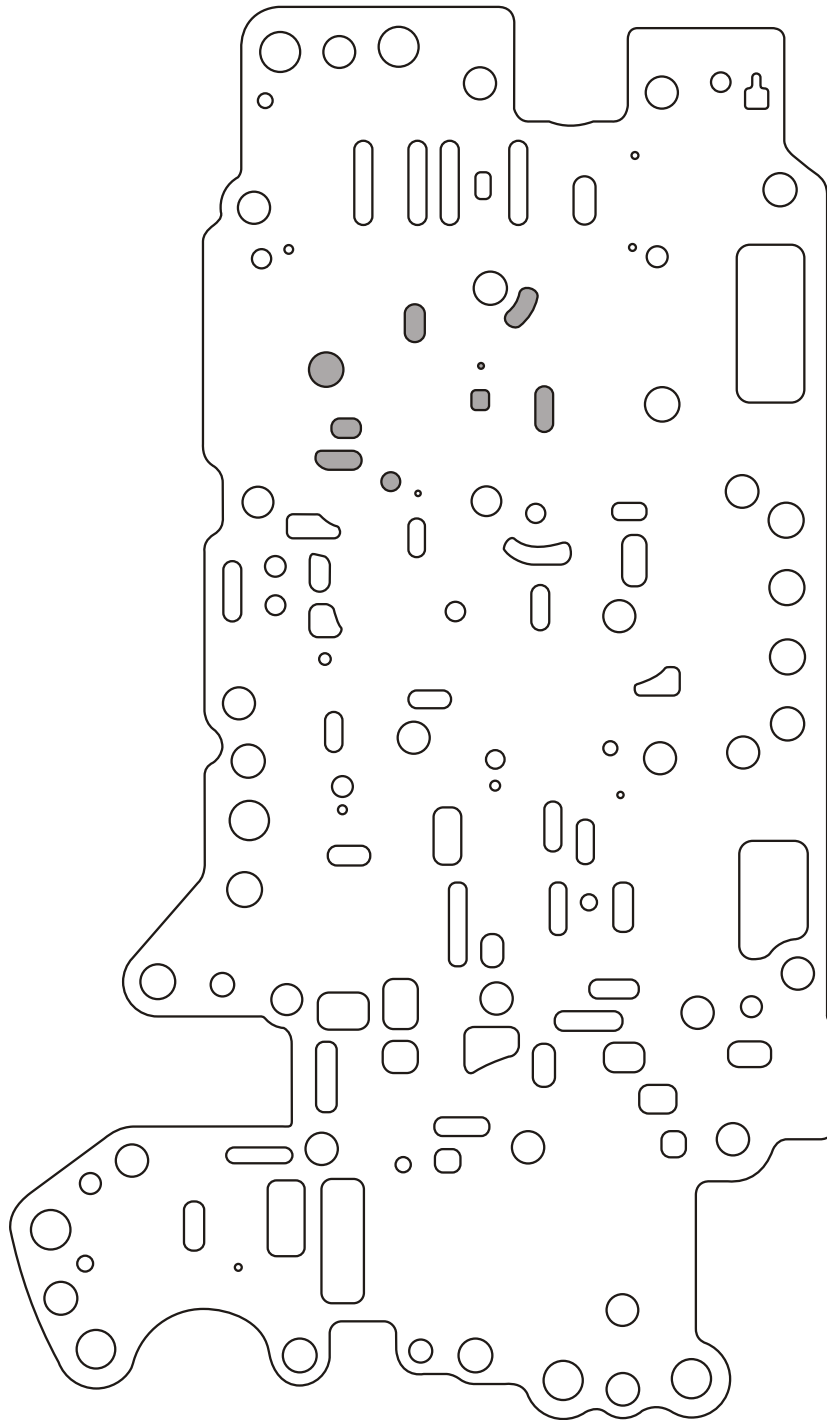


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Figure 6

F4E-III VALVE AND PASSAGE I.D.

"98" MAIN VALVE BODY SPACER PLATE

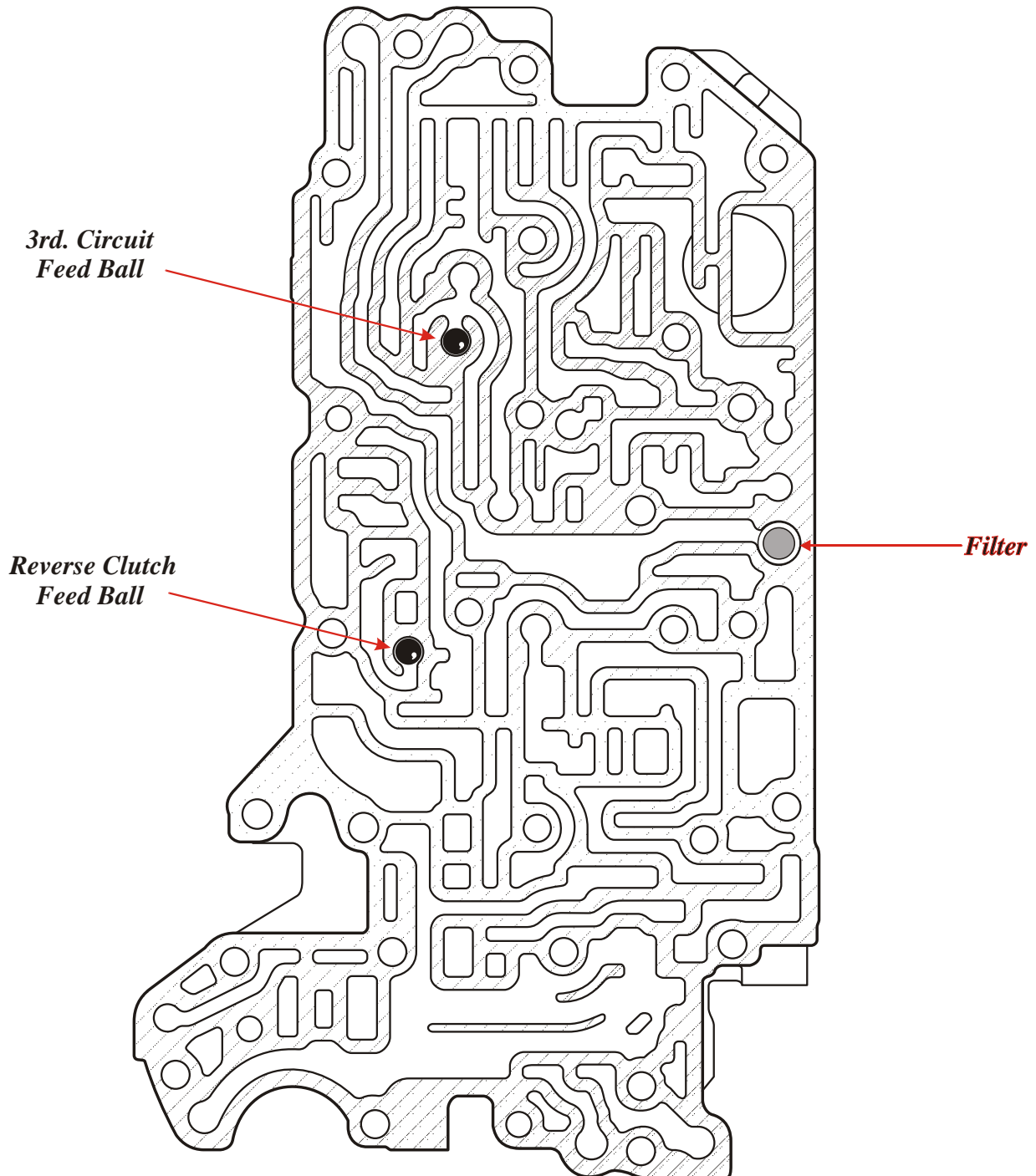


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Figure 7

F4E-III VALVE AND PASSAGE I.D.

"97" PREMAIN VALVE BODY (UPPER)

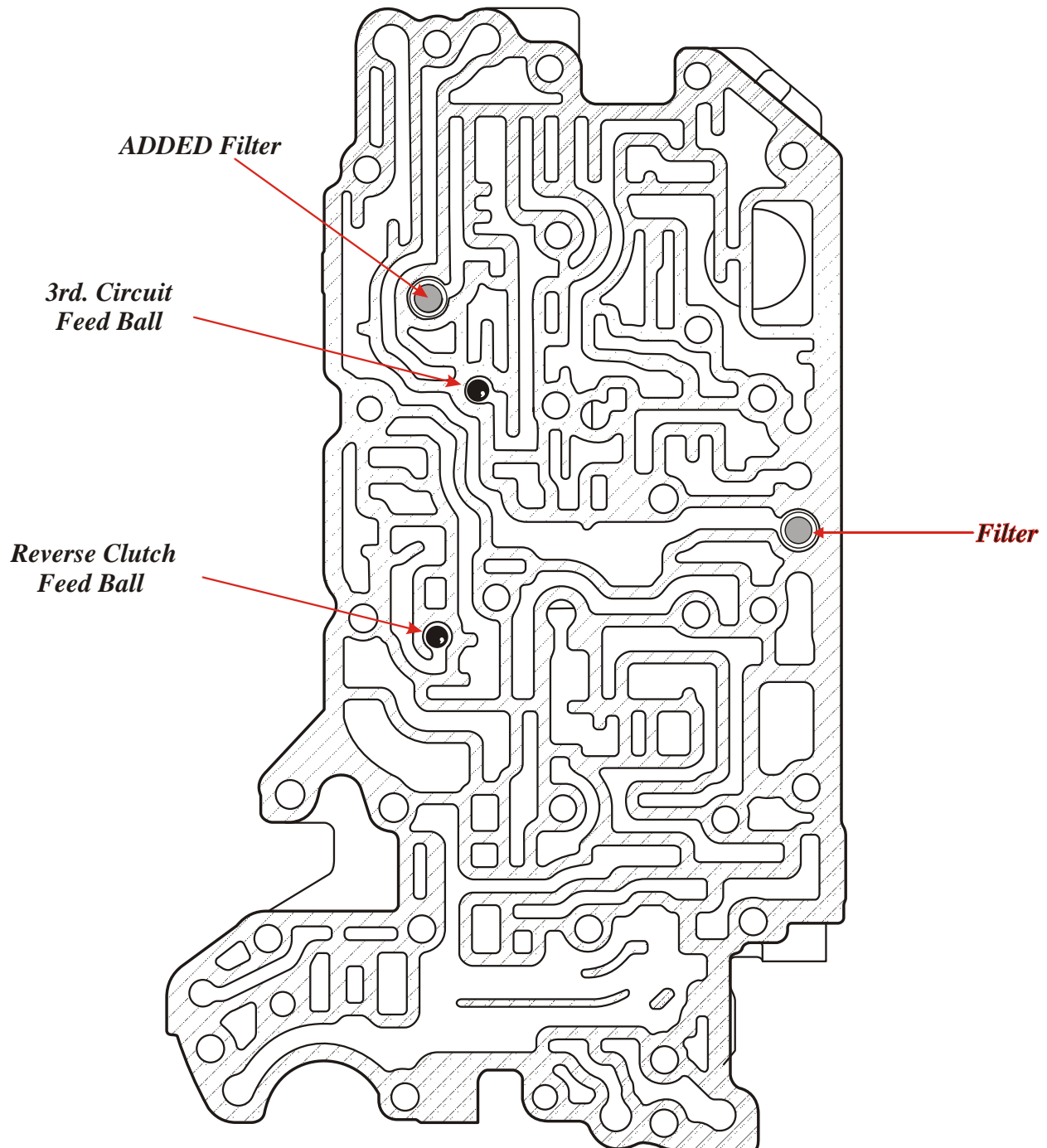


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Figure 8

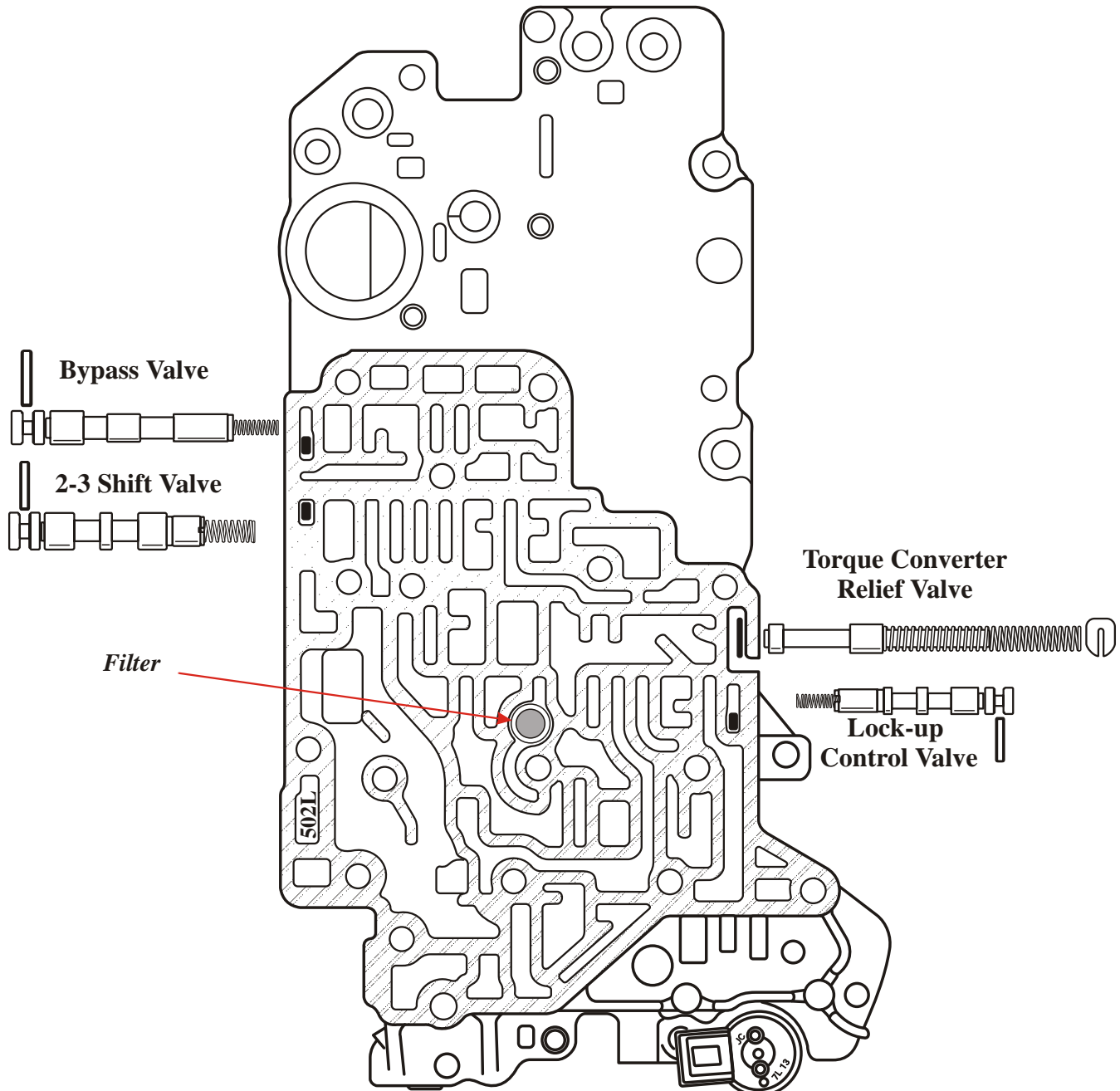
F4E-III VALVE AND PASSAGE I.D.

"98" PREMAIN VALVE BODY (UPPER)



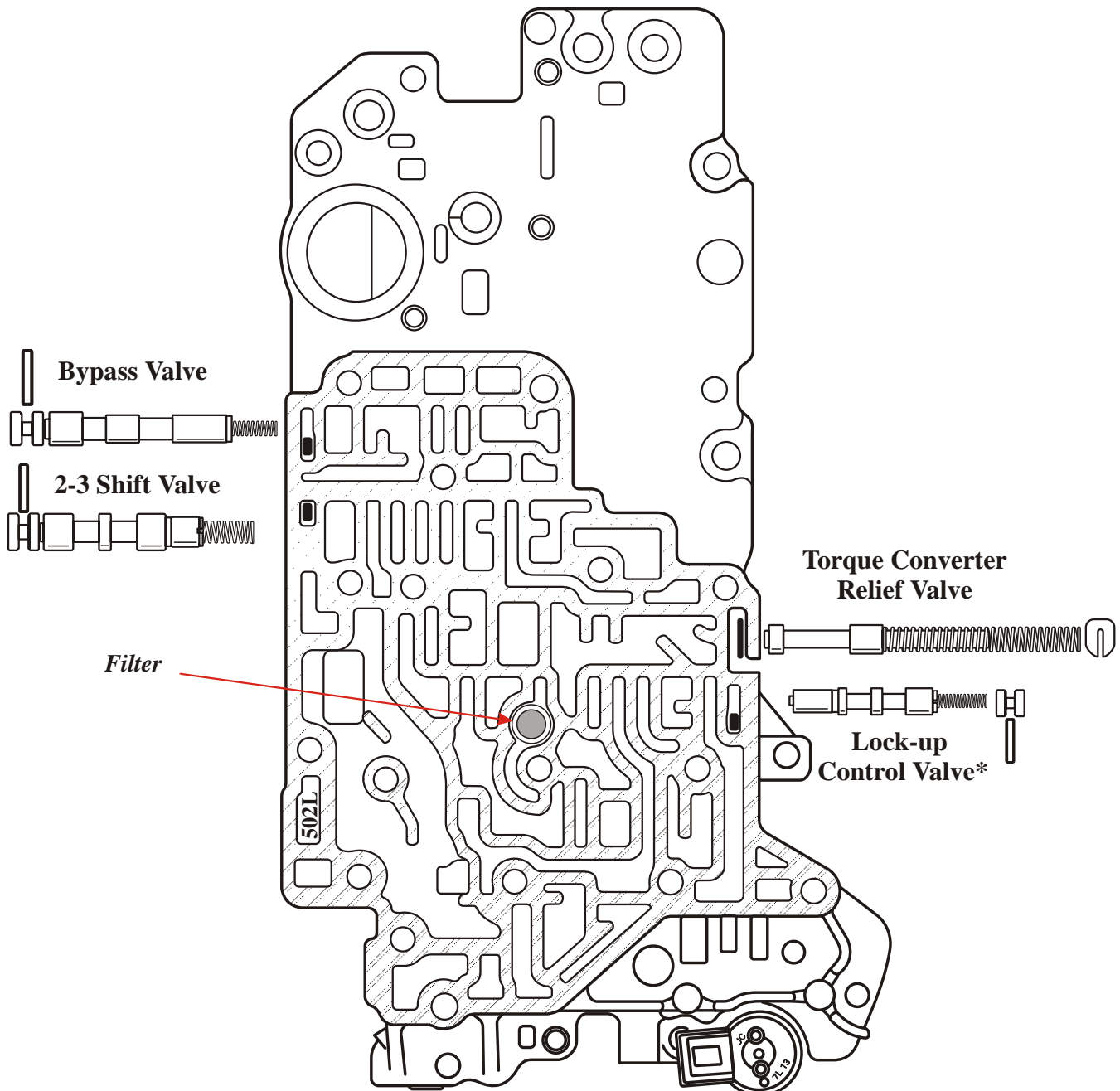
F4E-III VALVE AND PASSAGE I.D.

"97" PREMAIN VALVE BODY (LOWER)



F4E-III VALVE AND PASSAGE I.D.

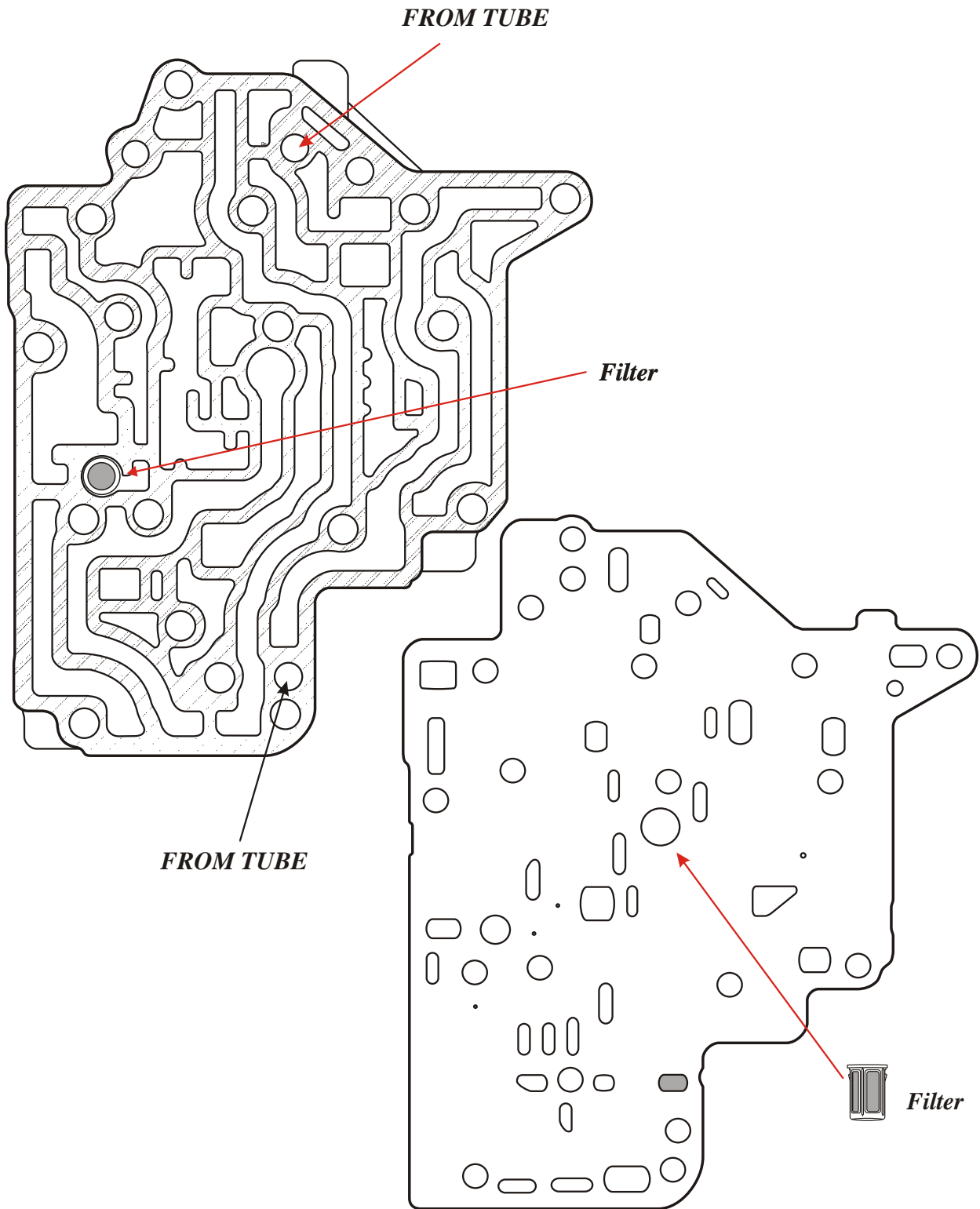
"98" PREMAIN VALVE BODY (LOWER)



*** NOTE: THE VALVE HAS THE HOLE AND THE SPRING AT THE OPPOSITE END OF THE VALVE**

F4E-III VALVE AND PASSAGE I.D.

"97" PREMAIN COVER AND SPACER PLATE

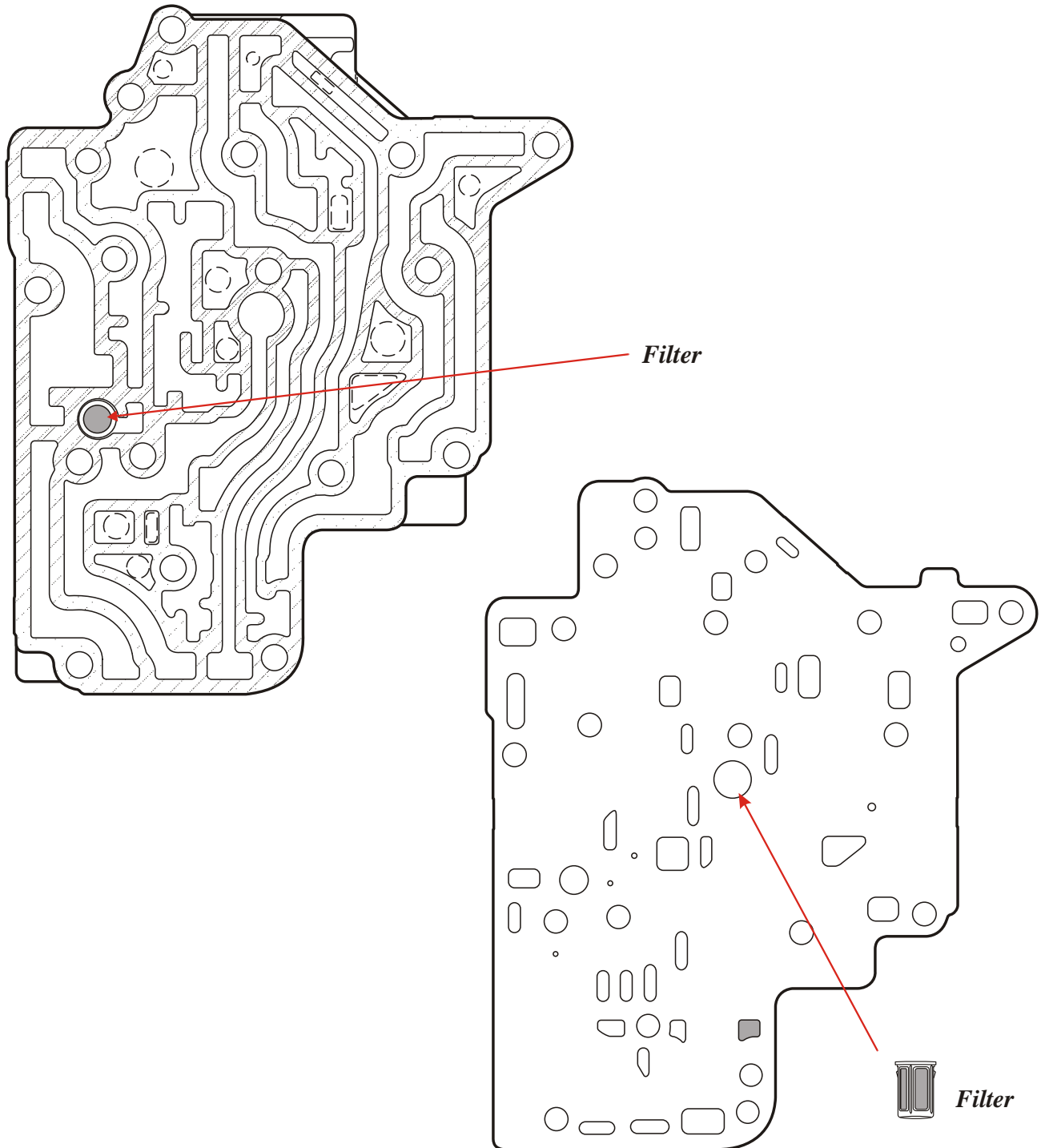


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Figure 12

F4E-III VALVE AND PASSAGE I.D.

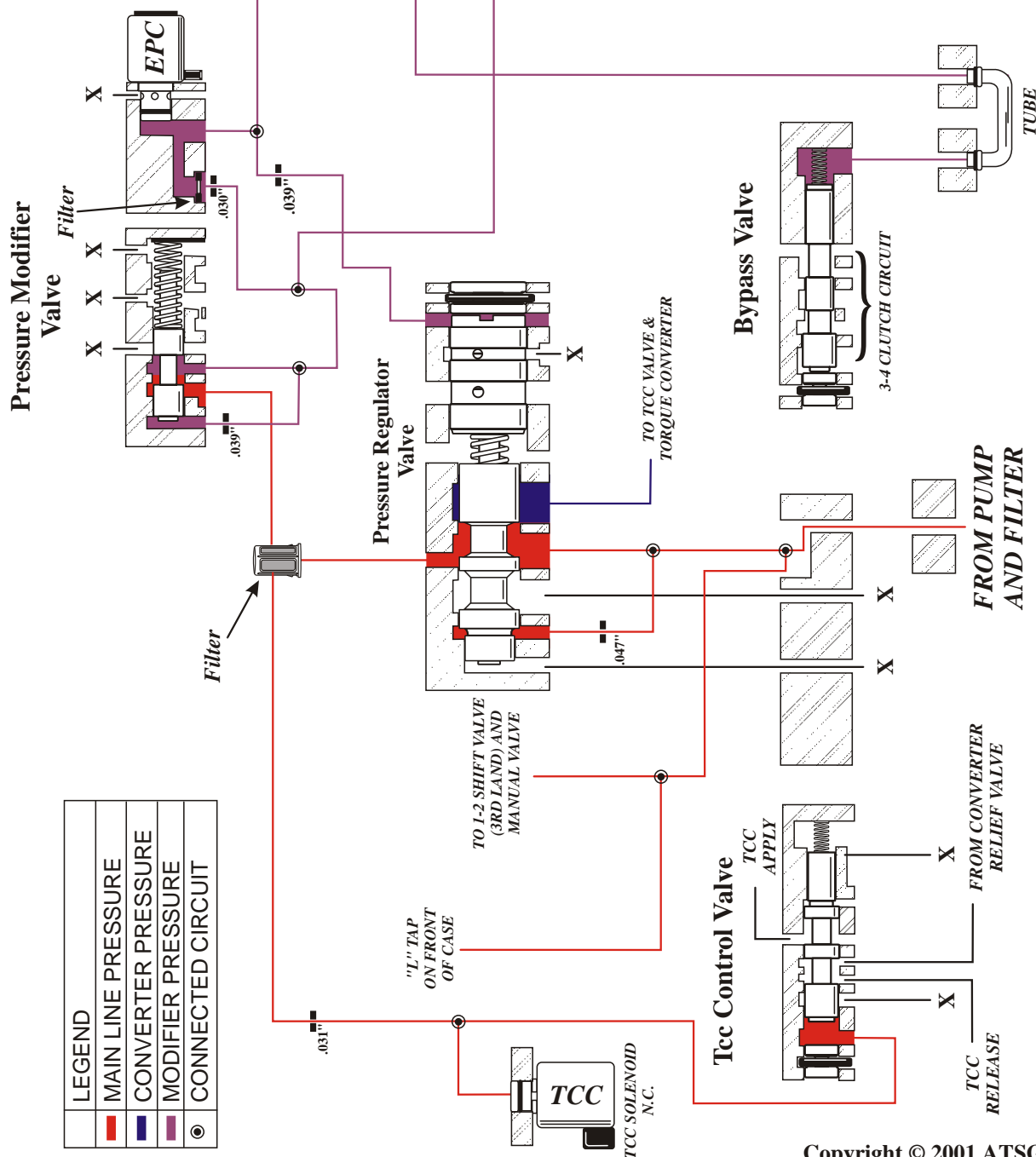
"98" PREMAIN COVER AND SPACER PLATE



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Figure 13

Pressure Modifier Accumulator Valve



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Figure 14

