



# Technical Service Information

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## **AISIN SEIKI 450-43LE VALVE BODY EXPLODED VIEWS AND IDENTIFICATION OF COMPONENTS**

*Refer to Figures 1 and 2 for the Identification and location of valve line-ups in the Upper Valvebody*

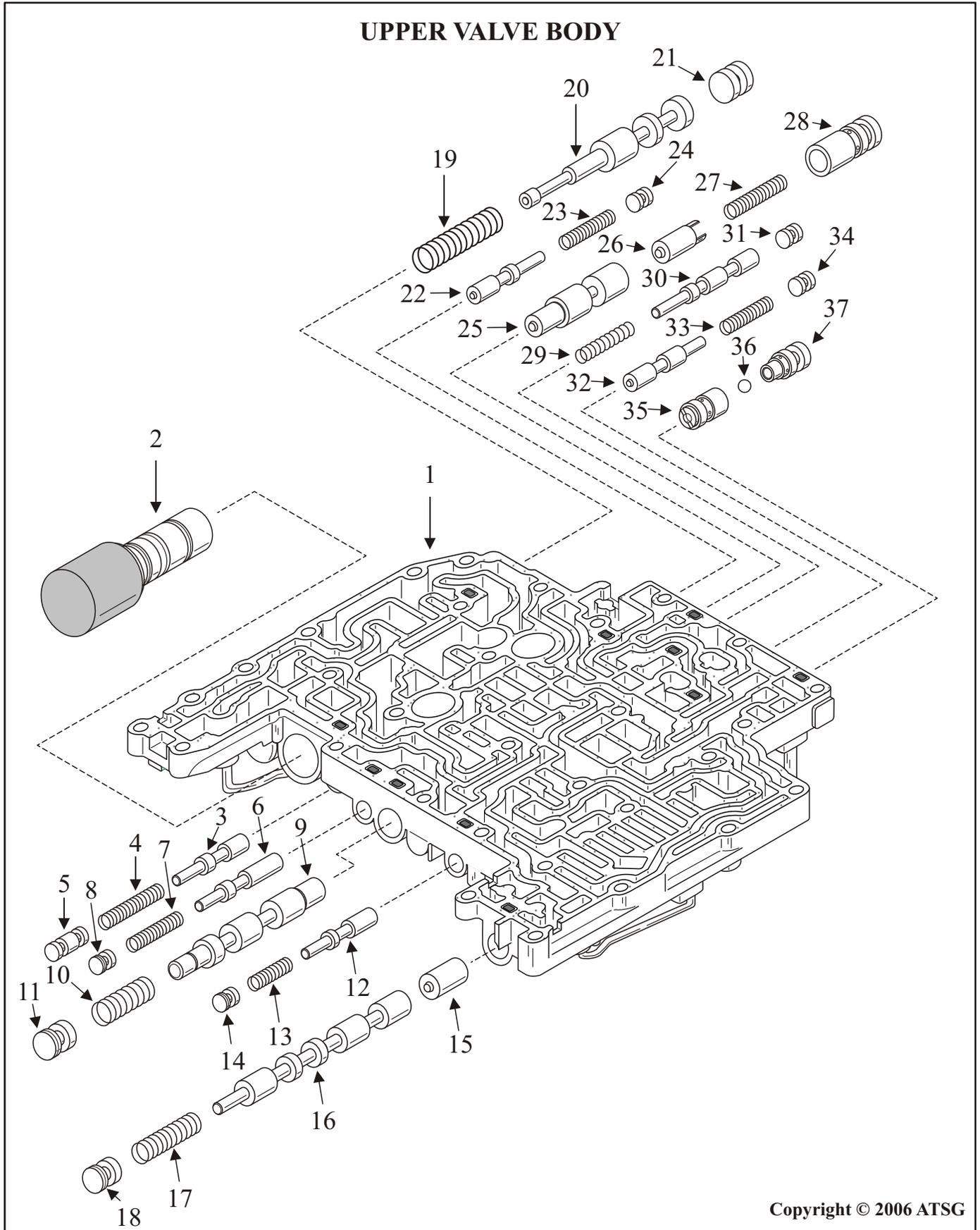
*Refer to Figures 3 and 4 for the Identification and location of valve line-ups in the Lower Valvebody*

*Refer to Figure 5 for the Identification and location of the Shift Solenoids, Lock-up Solenoid and the Timing Solenoid*

*Refer to Figure 6 for the Location of Checkballs and Filter in the Upper Valve Body*

*Refer to Figure 7 for the Location of Checkballs in the Lower Valve Body*

*Refer to Figure 8 for the Location of the retainers and Filters in the Lower Valve Body (Pan Side)*



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Figure 1



## UPPER VALVE BODY LEGEND

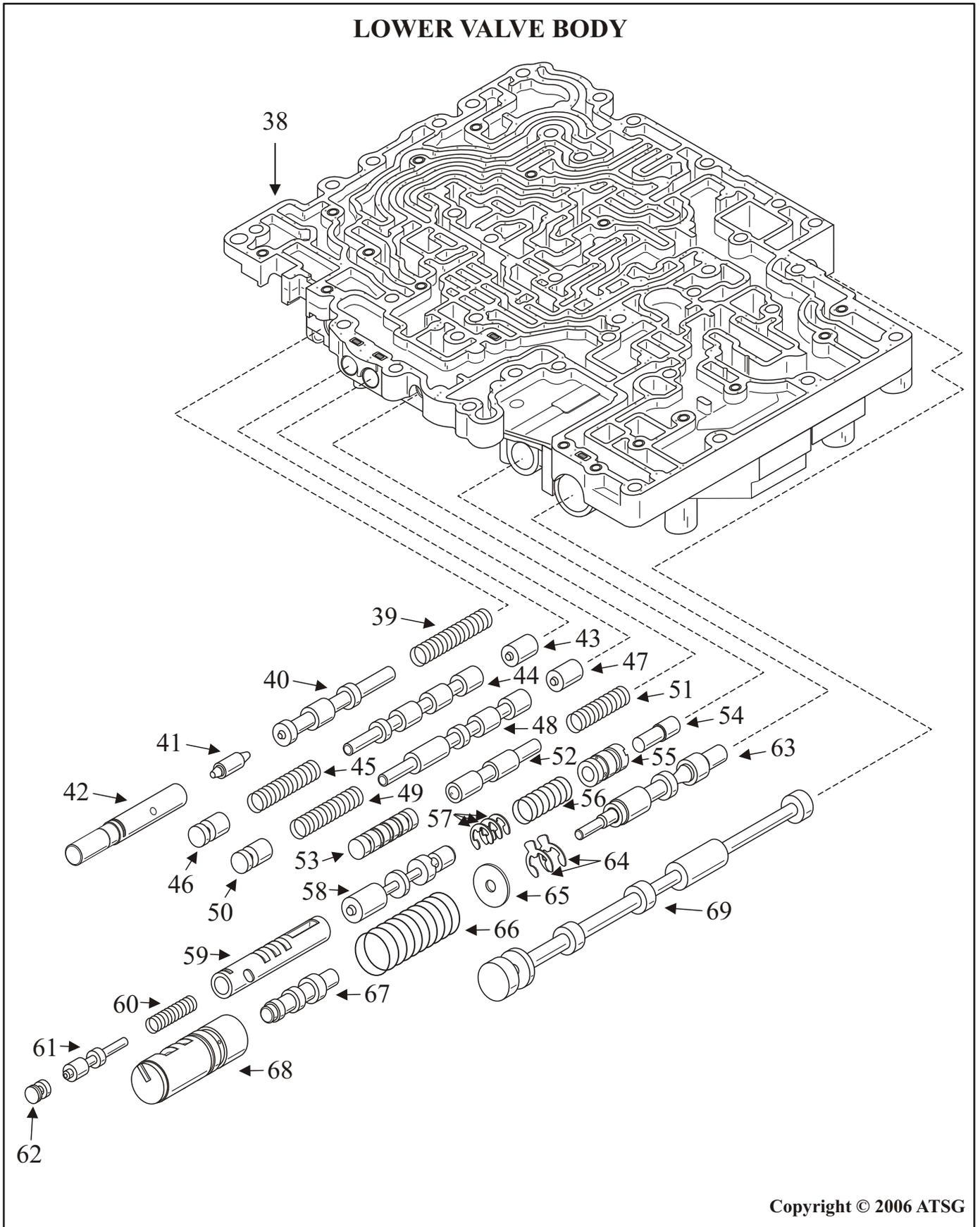
- |                                      |   |
|--------------------------------------|---|
| 1. UPPER VALVE BODY                  | 20. SECONDARY REGULATOR VALVE           |
| 2. PRESSURE CONTROL SOLENOID         | 21. SECONDARY REGULATOR VALVE BORE PLUG |
| 3. REDUCING VALVE                    | 22. MODULATOR VALVE                     |
| 4. REDUCING VALVE SPRING             | 23. MODULATOR VALVE SPRING              |
| 5. REDUCING VALVE BORE PLUG          | 24. MODULATOR VALVE BORE PLUG           |
| 6. LOCK-UP SIGNAL VALVE              | 25. REVERSE INHIBITOR VALVE # 1         |
| 7. LOCK-UP SIGNAL VALVE SPRING       | 26. REVERSE INHIBITOR VALVE # 2         |
| 8. LOCK-UP SIGNAL VALVE BORE PLUG    | 27. REVERSE INHIBITOR VALVE SPRING      |
| 9. ACCUMULATOR VALVE                 | 28. REVERSE INHIBITOR VALVE SLEEVE      |
| 10. ACCUMULATOR VALVE SPRING         | 29. LOW COAST MODULATOR VALVE SPRING    |
| 11. ACCUMULATOR VALVE BORE PLUG      | 30. LOW COAST MODULATOR VALVE*          |
| 12. ORFICE CONTROL VALVE             | 31. LOW COAST MODULATOR VALVE BORE PLUG |
| 13. ORFICE CONTROL VALVE SPRING      | 32. LOW INHIBITOR VALVE                 |
| 14. ORFICE CONTROL VALVE BORE PLUG   | 33. LOW INHIBITOR VALVE SPRING          |
| 15. 2-3 SHIFT VALVE PLUG             | 34. LOW INHIBITOR VALVE BORE PLUG       |
| 16. 2-3 SHIFT VALVE                  | 35. DIRECT CLUTCH CHECK VALVE           |
| 17. 2-3 SHIFT VALVE SPRING           | 36. DIRECT CLUTCH CHECK VALVE BALL      |
| 18. 2-3 SHIFT VALVE BORE PLUG        | 37. DIRECT CLUTCH CHECK VALVE SLEEVE    |
| 19. SECONDARY REGULATOR VALVE SPRING |   |

**\*A stuck Low Coast Modulator Valve will cause no forward movement and a bind in reverse.**

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Figure 2

### LOWER VALVE BODY



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Figure 3



## LOWER VALVE BODY LEGEND

- |                                |   |
|--------------------------------|---|
| 38. LOWER VALVE BODY           | 54. LOCK-UP CONTROL VALVE PLUG          |
| 39. 2-3 TIMING VALVE SPRING    | 55. LOCK-UP CONTROL VALVE SLEEVE*       |
| 40. 2-3 TIMING VALVE           | 56. LOCK-UP CONTROL VALVE SPRING        |
| 41. 2-3 TIMING VALVE PLUG      | 57. LOCK-UP CONTROL VALVE SPACERS       |
| 42. 2-3 TIMING VALVE SLEEVE    | 58. LOCK-UP CONTROL VALVE               |
| 43. 1-2 SHIFT VALVE PLUG       | 59. CUT BACK VALVE SLEEVE               |
| 44. 1-2 SHIFT VALVE            | 60. CUTBACK VALVE SPRING                |
| 45. 1-2 SHIFT VALVE SPRING     | 61. CUTBACK VALVE                       |
| 46. 1-2 SHIFT VALVE BORE PLUG  | 62. CUTBACK VALVE BORE PLUG             |
| 47. 3-4 SHIFT VALVE PLUG       | 63. PRIMARY REGULATOR VALVE             |
| 48. 3-4 SHIFT VALVE            | 64. PRIMARY REGULATOR VALVE SPACERS     |
| 49. 3-4 SHIFT VALVE SPRING     | 65. PRIMARY REGULATOR VALVE SPRING SEAT |
| 50. 3-4 SHIFT VALVE BORE PLUG  | 66. PRIMARY REGULATOR VALVE SPRING      |
| 51. CO EXHAUST VALVE SPRING    | 67. PRIMARY REGULATOR BOOST VALVE       |
| 52. CO EXHAUST VALVE           | 68. PRIMARY REGULATOR BOOST SLEEVE      |
| 53. CO EXHAUST VALVE BORE PLUG | 69. MANUAL VALVE                        |

\*A broken Lock-Up Control Valve Sleeve will jam the Lock-Up causing the engine to stall in gear.

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Figure 4

### SOLENOID IDENTIFICATION

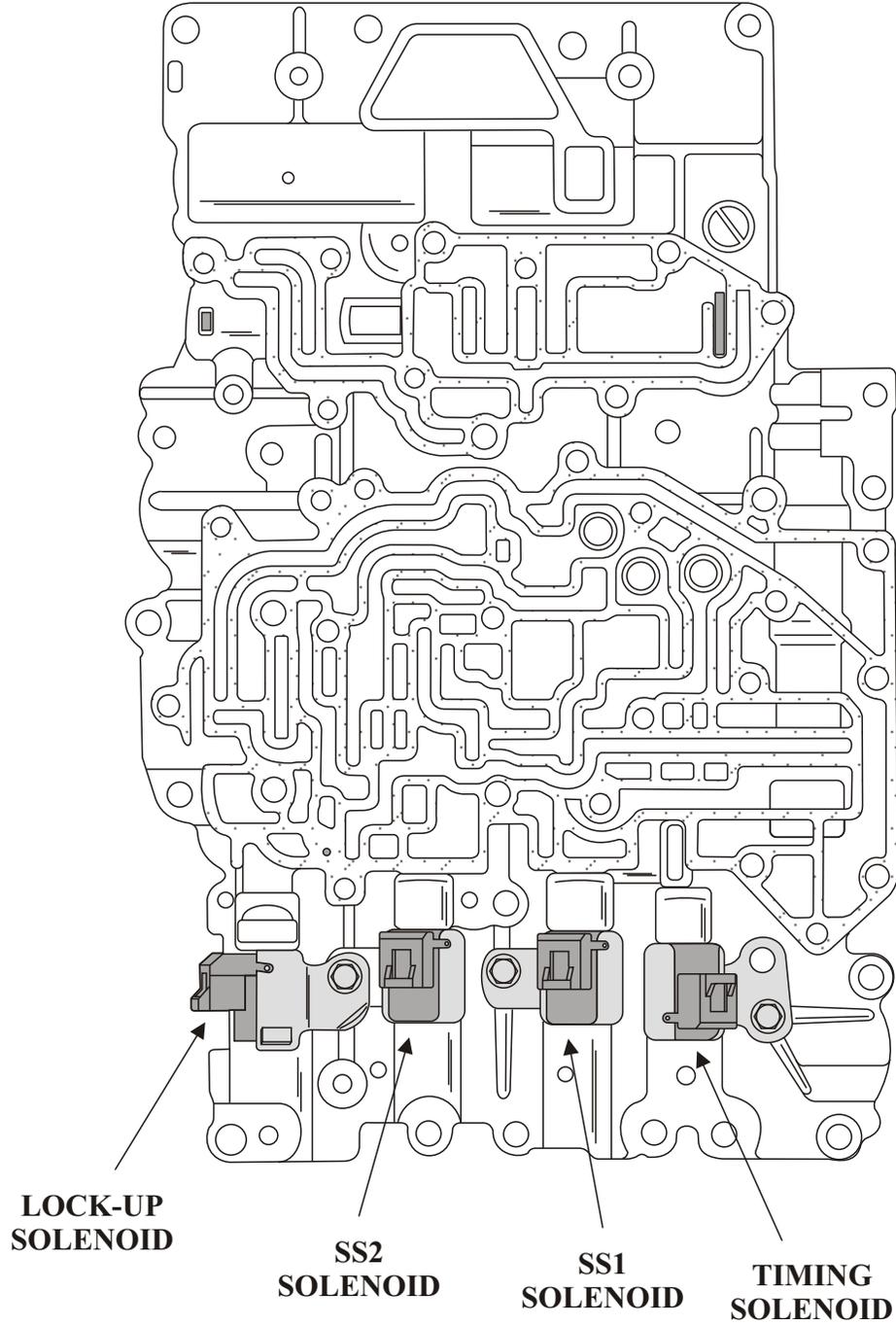
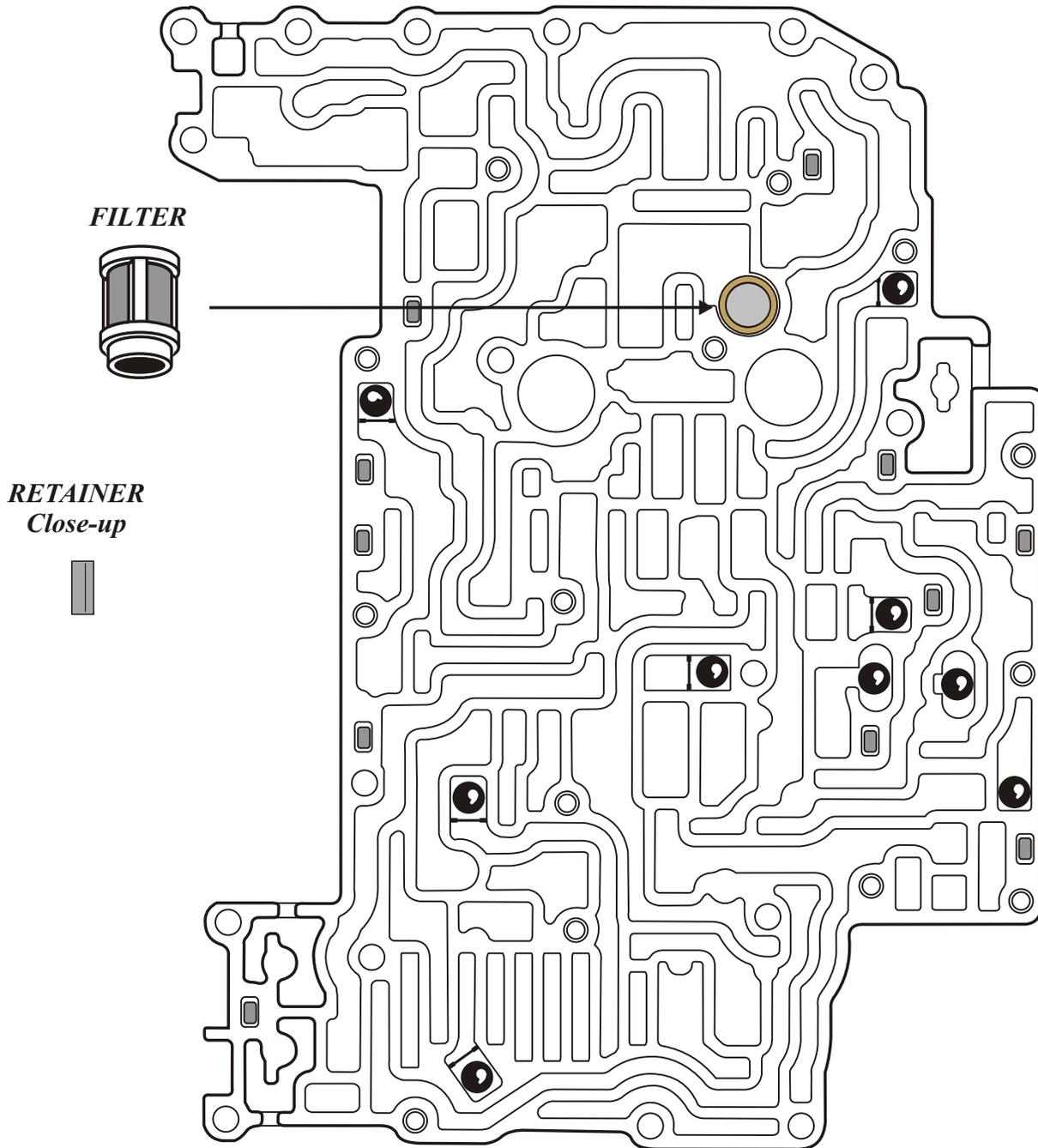


Figure 5

### UPPER VALVE BODY CHECKBALL LOCATIONS



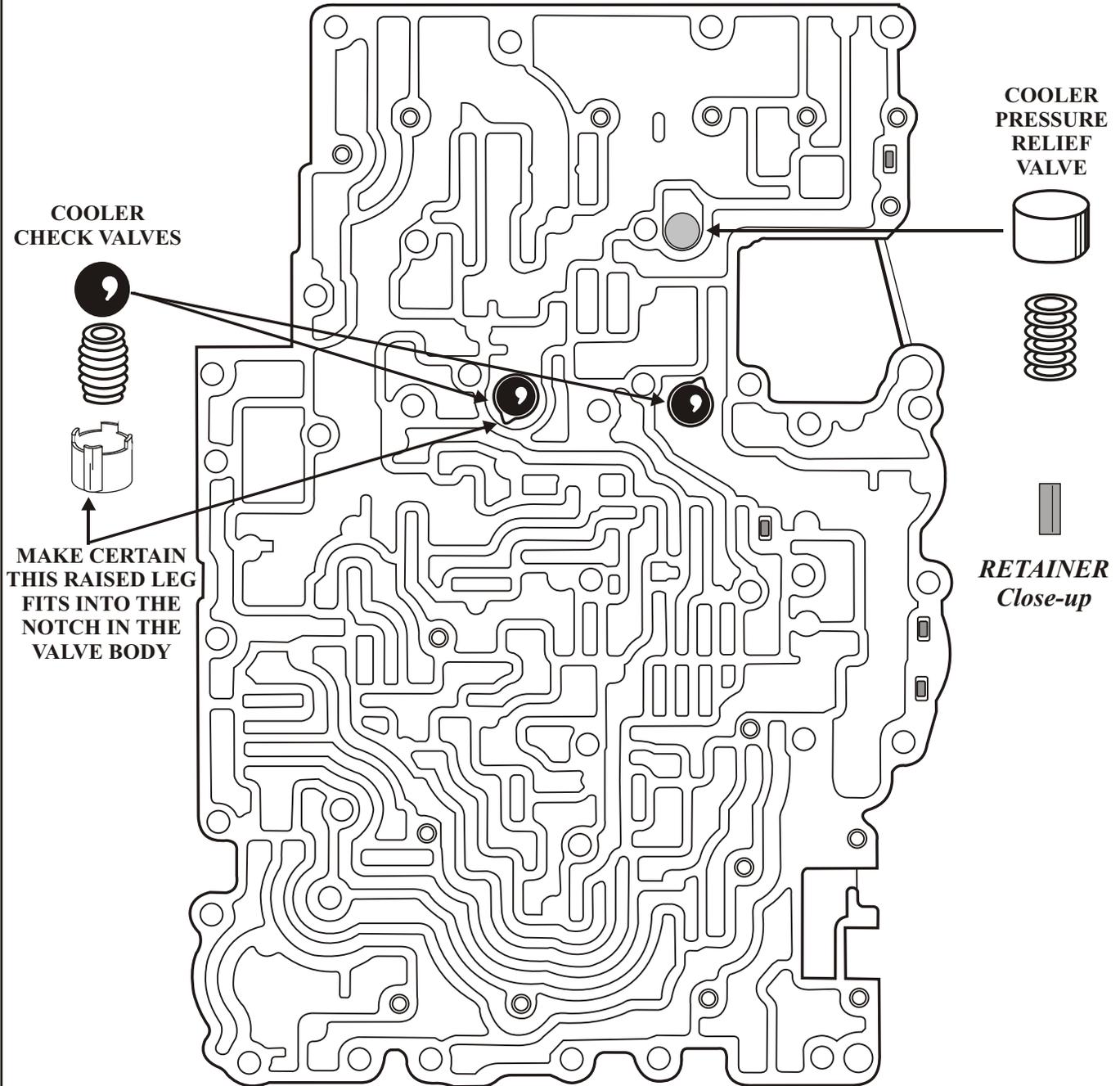
**THE UPPER VALVE BODY HAS NINE 6.35MM (.250") STEEL CHECKBALLS**

*NOTE: RETAINER LOCATIONS ARE HIGHLIGHTED IN GREY*

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Figure 6

### LOWER VALVEBODY CHECKVALVE LOCATIONS



**THE LOWER VALVE BODY HAS TWO 10.00MM (.394") STEEL CHECKBALLS ON BARREL SPRINGS AND CAPSULES**

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*NOTE: RETAINER LOCATIONS ARE HIGHLIGHTED IN GREY*

Figure 7

**LOWER VALVEBODY (*Pan Side*) RETAINER  
AND FILTER LOCATIONS**

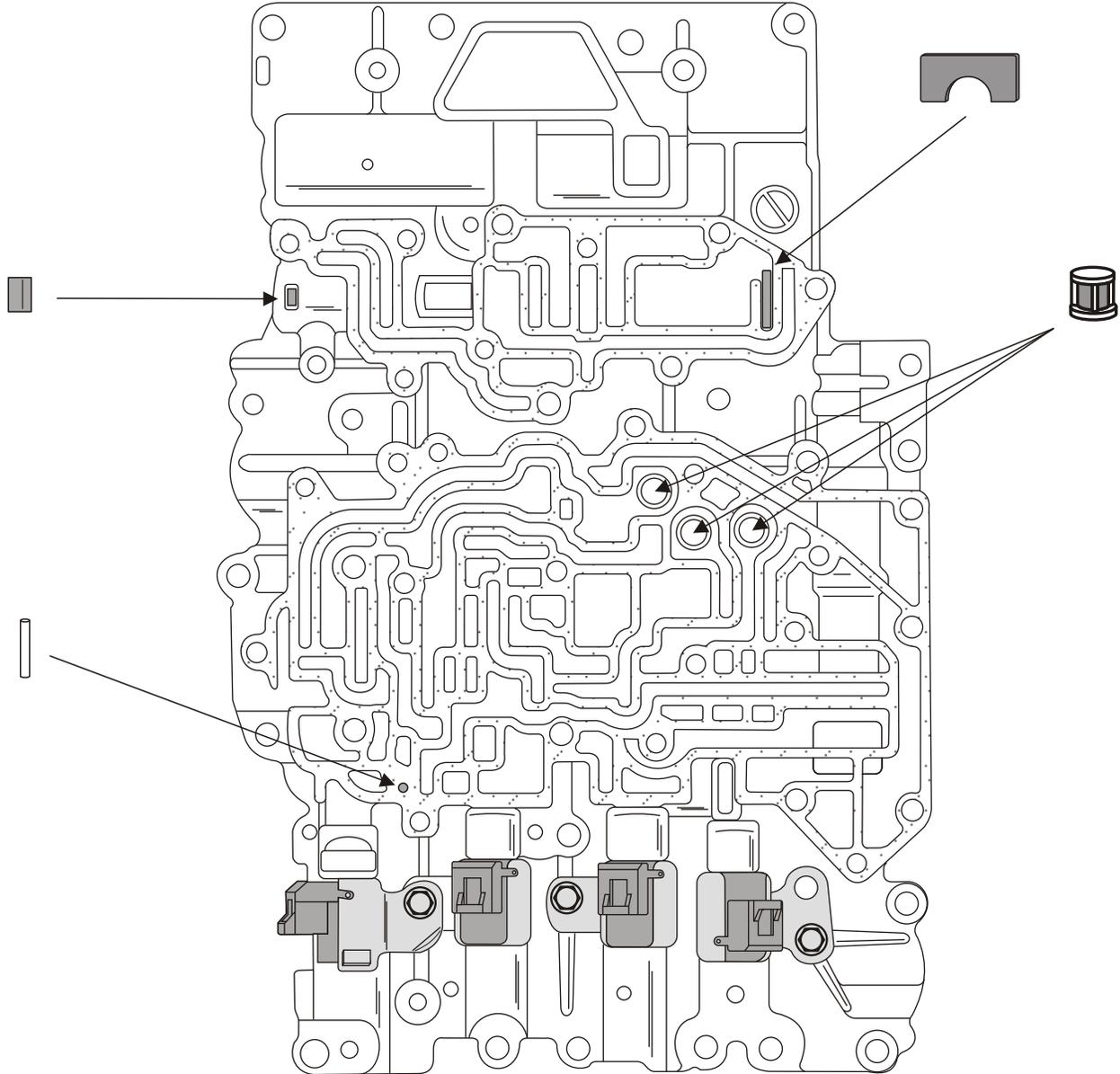


Figure 8