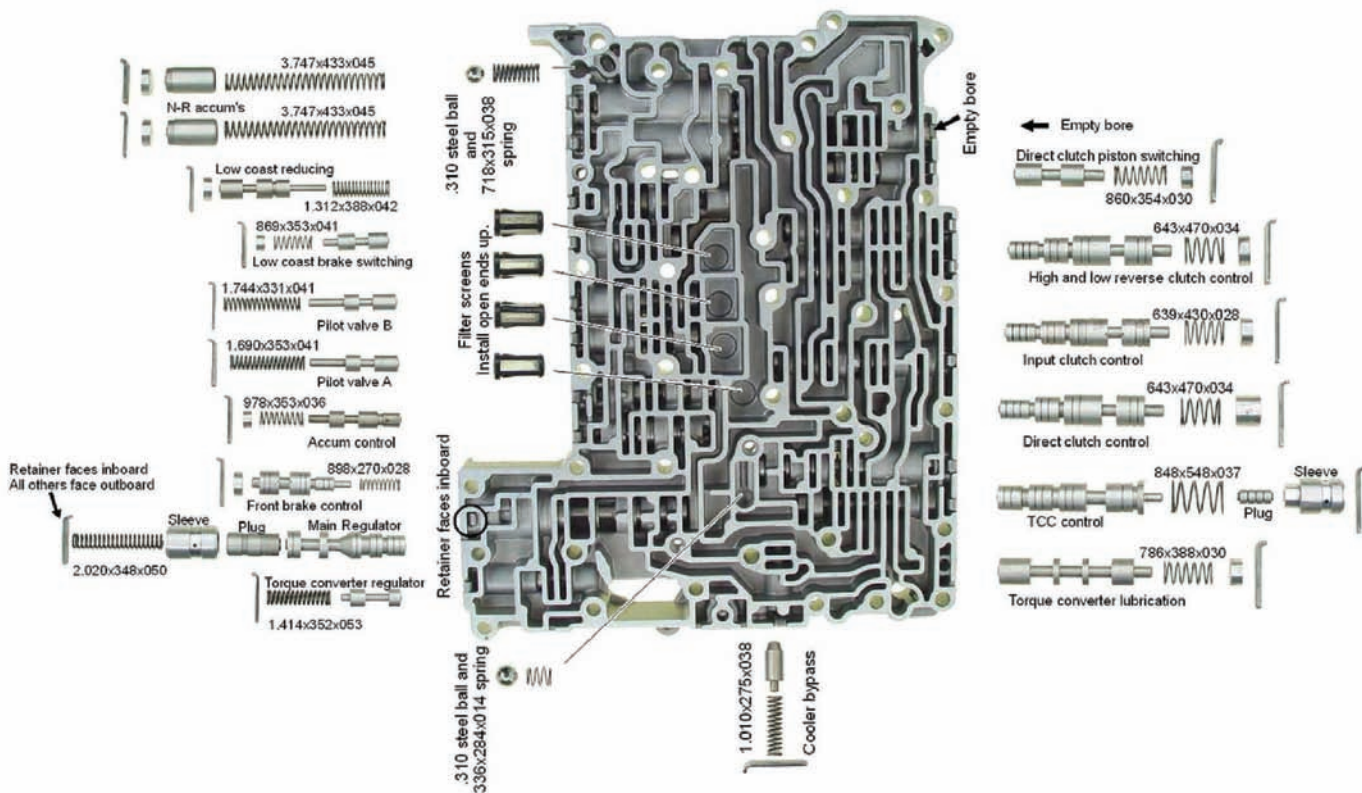


# RE5R05A

## Lower Valve Body

The valve bodies are not interchangeable. If you are replacing the valve body or using some parts for interchange, make sure you identify the year of the valve body. Earlier models are assembled with the accumulator pistons next to the pucks towards the outside of the valve body housing and have an empty bore opposite of the accumulators.

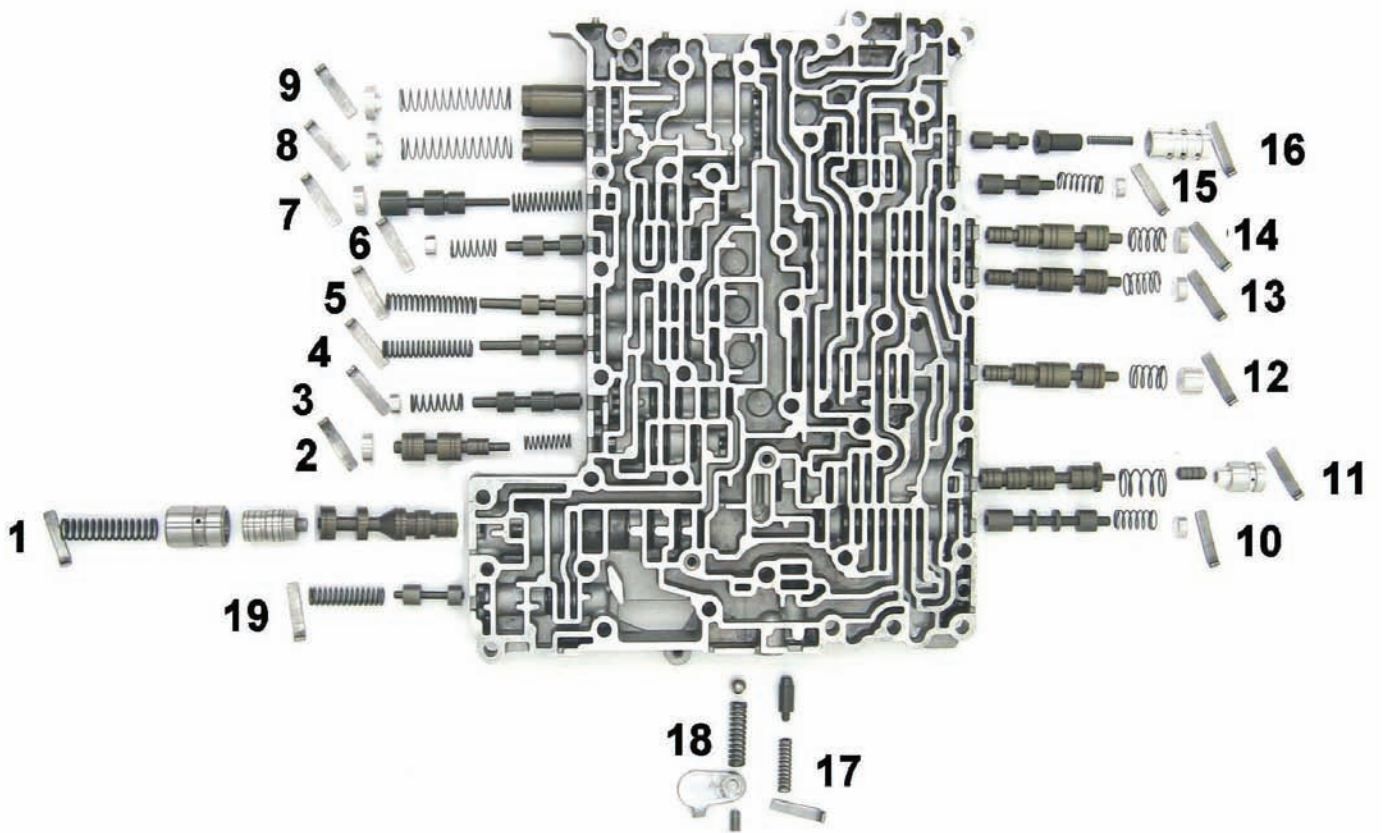


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# RE5R05A

## Lower Valve Body (continued)

Later model valve bodies assemble the accumulators with the pistons towards the inside of the valve body away from the pucks. They also have a valve that is opposite of the accumulator setup.



# RE5R05A

## Valve Descriptions

1. (a) Pressure Regulator Valve, (b) Pressure Regulator Plug, (c) Pressure Regulator Sleeve: Adjusts the oil discharged from the oil pump to the optimum levels (line pressure) for normal operation.
2. Front Brake Control Valve: When the front brake is applied, this valve adjusts line pressure to optimum levels (front brake pressure) and supplies it to the front brake. (In 1st, 2nd, 3rd, and 5th gears, it adjusts the clutch pressure.
3. Accumulator Control Valve: Adjusts the pressure (accumulator control pressure) acting on the accumulator piston and low coast reducing valve for normal operation.
4. Pilot Valve A: Adjusts the line pressure and produces the constant pressure (pilot pressure) required for line pressure, shifting, and lockup control.
5. Pilot Valve B: Adjusts the line pressure and produces the constant pressure (pilot pressure) required for shifting.
6. Low Coast Brake Switching Valve: During engine braking, this valve supplies the line pressure to the low coast brake reducing valve.
7. Low Coast Brake Reducing Valve: When the low coast brake is applied, this valve adjusts the line pressure to optimum levels (low coast brake pressure) and supplies it to the low coast brake.
8. N-R Accumulator: Produces stabilizing pressure for N-R ranges.
9. N-D Accumulator: Produces stabilizing pressure in N-D ranges.
10. Torque Converter Lubrication Valve: Operates during lockup to switch the torque converter, cooling and lubrication systems' oil paths.

# RE5R05A

## Valve Descriptions (continued)

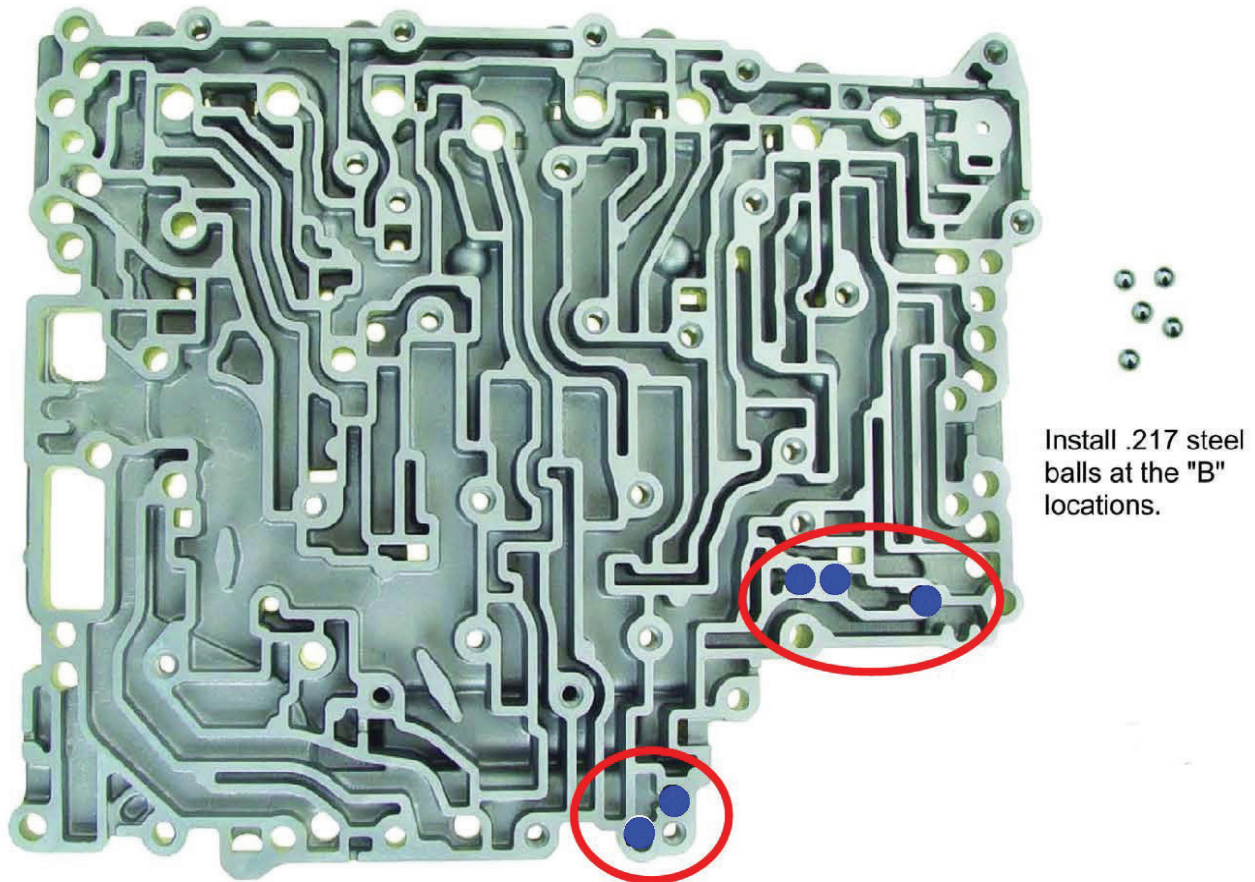
11. Torque Converter Regulator Valve: (a) TCC Control Valve, (b) TCC Control Plug, (c) TCC Control Sleeve: Applies or releases the converter clutch. By performing the lock-up operation transiently, it provides a smooth converter clutch apply.
  
12. Direct Clutch Control Valve: When the direct clutch is applied, this valve adjusts line pressure to optimum levels (direct clutch pressure) and supplies it to the direct clutch. (In 2nd, 3rd, and 4th gears, it adjusts the clutch pressure.)
  
13. Input Clutch Control Valve: When the input clutch is applied, this valve adjusts line pressure to optimum levels (input clutch pressure) and supplies it to the input clutch. (In 4th and 5th gears, it adjusts the clutch pressure.)
  
14. High and Low Reverse Clutch Control Valve: When the high and low reverse clutch is applied, this valve adjusts line pressure to optimum levels (high and low reverse clutch pressure) and supplies it to the high and low reverse clutch. (In 1st, 3rd, 4th and 5th gears, it adjusts the clutch pressure.)
  
15. Direct Clutch Piston Switching Valve: Operates in 4th gear and switches the direct clutch coupling capacity.
  
16. Direct Clutch Regulating Valve
  
17. Cooler Bypass Valve: Allows excess oil to bypass cooler circuit without being fed into it.
  
18. Line Pressure Relief Valve: Discharges excess oil from line pressure circuit.
  
19. To prevent too much pressure from reaching the torque converter, line pressure is adjusted to optimum levels; this is called torque converter operating pressure.
  
20. Manual Valve: Sends line pressure to each circuit according to the selector position.

# RE5R05A

## Upper Valve Body Check Ball Locations

2003

There is a distinct difference between the valve body casings. The locations of the check balls are also different between the years.



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# RE5R05A

## Upper Valve Body Check Ball Locations

*2004 and up*

There is a distinct difference between the valve body casings. The locations of the check balls are also different between the years.

