

This diagram illustrates the exploded view of a 4-speed manual transmission valve body assembly. The central component is the valve body, which houses several internal valves and passages. The following components are shown in their relative positions for assembly:

- Top Left:** Plug, Retainer, Intermediate Coast Shift Valve, 2-3 Shift Valve.
- Top Right:** 2-3 Shift Valve Plug, Plug, Pin, 2-3 Shift Timing Valve, 2-3 Shift Timing Plug, Sleeve, Pin, Plug, Retainer.
- Bottom Left:** Detent Regulator Valve, Plug, Retainer, Check Ball, Lock-Up Signal Valve, Seat, Sleeve, Cut-Back Valve, Pin, Plug, Retainer, Plug, Retainer.
- Bottom Center:** 3-4 Coast Shift Valve, 3rd Coast Valve, Plug, Retainer, Plug, Retainer, Retainer, Plug, Retainer.
- Bottom Right:** O/D Clutch Exhaust Valve, Manual Down Timing Valve, Intermediate Modulator Valve.

Key features and labels include:

- Valves:** Intermediate Coast Shift Valve, 2-3 Shift Valve, 3-4 Coast Shift Valve, 3rd Coast Valve, Detent Regulator Valve, Lock-Up Signal Valve, Cut-Back Valve, O/D Clutch Exhaust Valve, Manual Down Timing Valve, Intermediate Modulator Valve.
- Plugs and Retainers:** Various plugs and retainers are used to secure the valves and maintain proper oil levels.
- Timing Components:** 2-3 Shift Timing Valve and 2-3 Shift Timing Plug are used for precise shift timing.
- Check Ball:** A ball valve used to prevent backflow of oil.
- Sleeve and Pin:** Components used for alignment and securing the assembly.

HINT:

Wide

Small

Plug Side

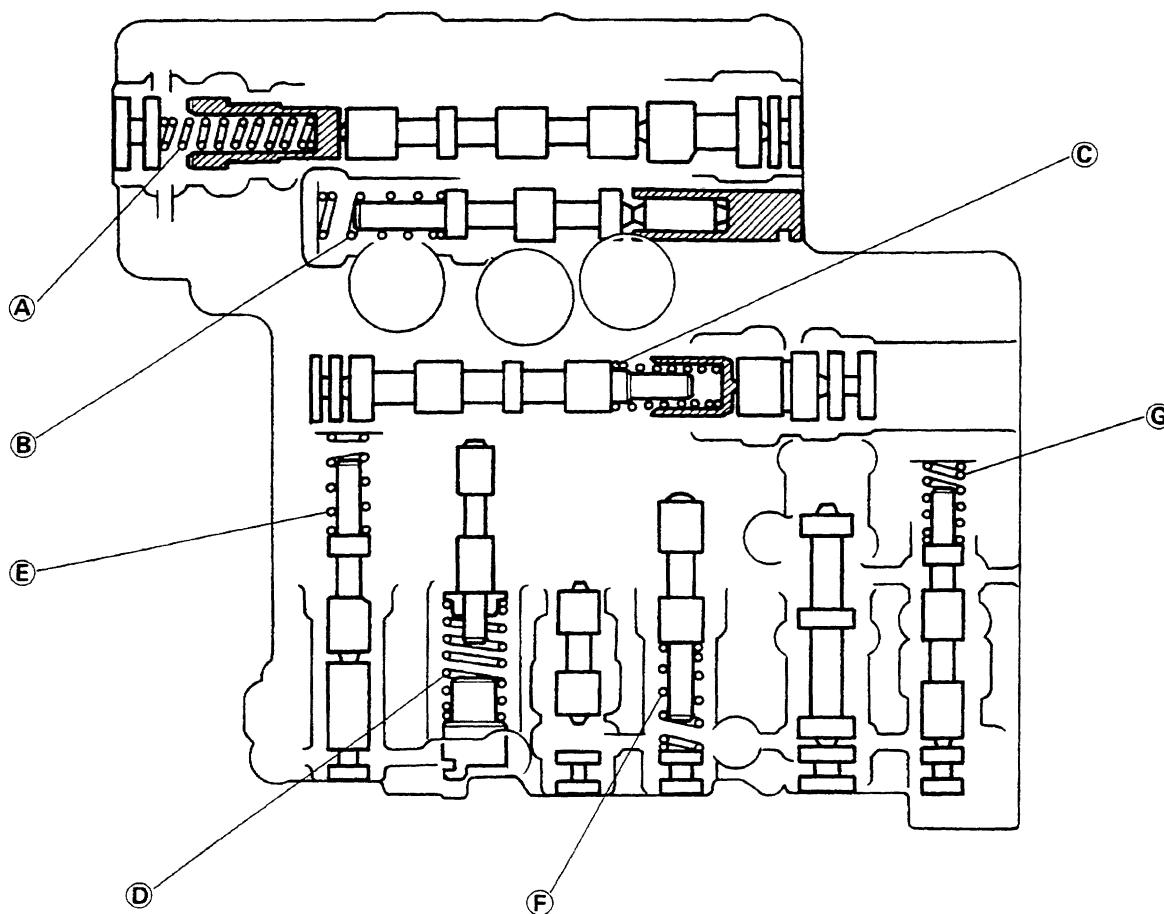
A diagram of a three-part plug assembly. The leftmost part is labeled 'Wide' with a vertical double-headed arrow. The middle part is labeled 'Small' with a vertical double-headed arrow. The rightmost part is labeled 'Plug Side' with a horizontal arrow pointing to the right.

SPECIFICATIONS OF VALVE BODY SPRINGS

Spring		Free length mm (in.)	Coil outer diameter mm (in.)	Total No. of coils	Color
Ⓐ	2-3 shift valve	42.2 (1.661)	8.9 (0.350)	22.0	White
Ⓑ	2-3 shift timing valve	29.4 (1.157)	8.6 (0.339)	15.5	None
Ⓒ	3-4 shift valve	38.3 (1.508)	9.7 (0.382)	17.0	None
Ⓓ	Detent regulator valve	30.4 (1.197)	7.4 (0.291)	16.0	White
Ⓔ	Lock-up signal valve	47.6 (1.874)	13.7 (0.539)	16.0	Blue
Ⓕ	4/D clutch exhaust valve	33.3 (1.311)	8.2 (0.323)	14.0	Yellow
Ⓖ	Intermediate modulator valve	22.5 (0.886)	7.7 (0.303)	12.0	Pink

HINT: During reassembly, please refer to the spring specifications above to help differentiate the different springs,

SECTIONAL VIEW OF VALVE BODY



LOCATION OF RETAINERS, PINS AND CHECK BALLS

1. RETAINERS AND PINS

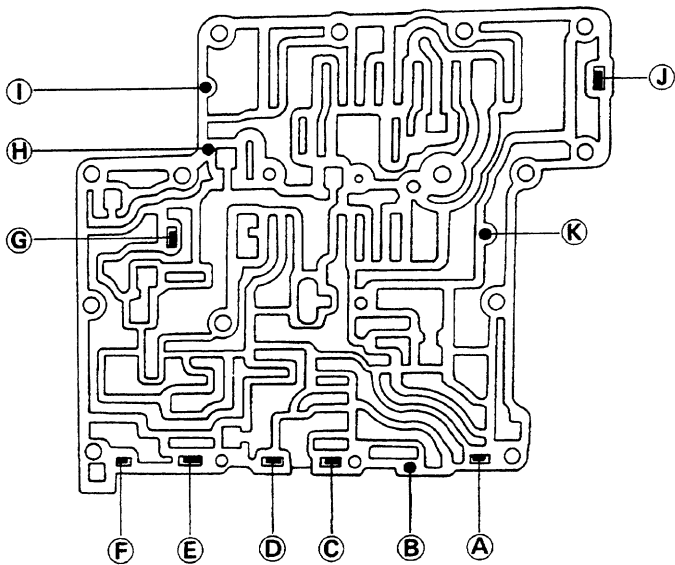


Diagram showing the locations of retainers and pins in the valve body. Labels A through K indicate specific components and their positions.

		mm (in.)		
	Item	Length	Width	Thickness or diameter
(A)	Retainer for detent regulator valve plug	13.5 (0.531)	5.0 (0.197)	3.2 (0.126)
(B)	Pin for lock-up signal valve plug	21.8 (0.858)	—	2.5 (0.098)
(C)	Retainer for cut-back valve plug	13.5 (0.531)	5.0 (0.197)	3.2 (0.126)
(D)	Retainer for O/D clutch exhaust valve plug	13.5 (0.531)	5.0 (0.197)	3.2 (0.126)
(E)	Retainer for manual down timing valve plug	13.5 (0.531)	5.0 (0.197)	3.2 (0.126)
(F)	Retainer for intermediate modulator valve plug	13.5 (0.531)	5.0 (0.197)	3.2 (0.126)
(G)	Retainer for 3rd coast valve plug	13.5 (0.531)	5.0 (0.197)	3.2 (0.126)
(H)	Pin for 2-3 shift timing valve sleeve	21.8 (0.858)	—	2.5 (0.098)
(I)	Pin for 2-3 shift valve plug	12.8 (0.504)	—	2.0 (0.079)
(J)	Retainer for 2-3 shift valve plug	13.5 (0.531)	5.0 (0.197)	3.2 (0.126)
(K)	Pin for 3-4 shift valve plug	12.8 (0.504)	—	2.0 (0.079)

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2. CHECK BALLS

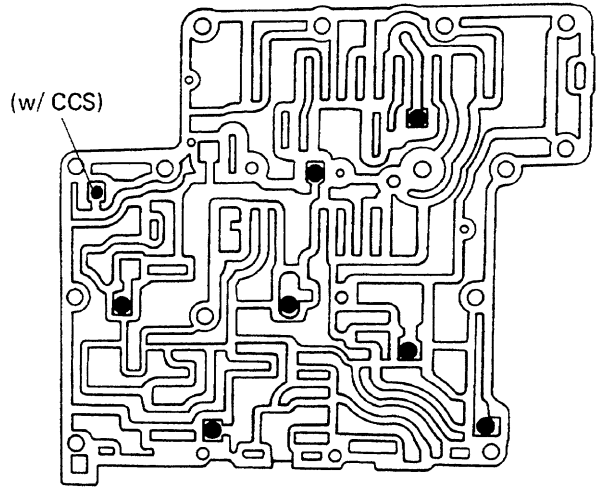


Diagram showing the locations of check balls in the valve body. Label (w/ CCS) indicates the location of the check balls.

		mm (in.)
	Item	Diameter
	Check ball	6.4 (0.252)

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