

Transmission Type..... F4A-III/FA4A-EL/FB4A-EL

Rebuilder's Kwik  
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**Clutch Clearances**

Forward Clutch.....	.040-.047"	..... Snap Ring
<b>Intermediate Clutch</b>		
3-4 Clutch .....	.051-.063"	..... Snap Ring
Low/Reverse Clutch .....	.083-.094"	..... Snap Ring
Reverse Clutch .....	.040-.051"	..... Snap Ring
Coast Clutch .....	.040-.047"	..... Snap Ring/ Pressure Plate

**Overdrive Clutch**

**Band Adjustment**

Intermediate Band.....	.039-.067"	..... Servo Pin
<b>2-4 Band</b>		
<b>Low/Reverse Band</b>		
<b>Overdrive Band</b>		

**Adjusted By:**

**Torque Specifications**

Pump Halves .....	71-97 In. Lbs.
Pump To Case .....	14-18 Ft. Lbs.
Valve Body Halves .....	70-95 In. Lbs.
Valve Body To Case .....	70-95 In. Lbs.
Idler Gear Cover To Case .....	14-18 Ft. Lbs.
Pan .....	74-95 In. Lbs.
Stator Support .....	96-121 In. Lbs.
<b>Extension Housing</b>	
<b>Driven Sprocket Support</b>	
<b>Overdrive Support</b>	
<b>Chain Cover</b>	
<b>Transfer Gears</b>	
Bellhousing To Main Case .....	28-38 Ft. Lbs.
Idler Gear Nut .....	95-130 Ft. Lbs.
<b>Endcover Bolts</b>	

**Unit Endplays**

Front Unit ..010-.020" .....	Pump .....	Thrust Washer
<b>Middle Unit</b>		
<b>Rear Unit</b>		
Differential .008-.011" Preload .....	Under Bearing Race .....	Shim
<b>Chain Sprocket</b>		
Differential Idler Gear 0.27-7.8 LB FT* Preload .....	Between Bearings .....	Spacer
Differential Drive Gear .004-.006" Preload .....	Under Bearing Race .....	Shim

**Location**

**Selective**

\* Rotating Torque

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**Clutch & Band/Solenoid Application Charts**

Gear		Forward Clutch	Coasting Clutch	3-4 Clutch	Reverse Clutch	2-4 Band	Low/Reverse Clutch	Input Sprag	Low Roller
Reverse					Applied		Applied		
OD	1st	Applied						Applied	Applied
	2nd	Applied				Applied		Applied	
	3rd	Applied		Applied				Applied	
	4th	Applied		Applied		Applied			
D	1st	Applied	Applied					Applied	Applied
	2nd	Applied	Applied			Applied		Applied	
	3rd	Applied	Applied	Applied				Applied	
L	1st	Applied	Applied				Applied		

Solenoid Application Chart				
Gear	3-4 Solenoid	1-2 Solenoid	2-3 Solenoid	Lock-Up Solenoid B
1st	On	Off	On	Off
2nd	On	On	On	Off
3rd	Off	On*	Off	Off
4th	On	On	Off	Off
Lock-Up	On	On	Off	On

\* Comes on in third to prime servo

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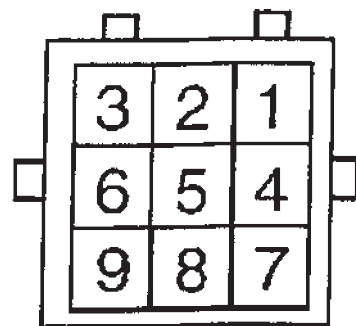
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Solenoid & Harness Information KIA

Temperature F, (C)	Resistance in K/Ohms.
-4 F, (-20)	147 - 189
32 F, (0)	56.7 - 70.2
68 F, (20)	24.5 - 29.2
104 F (40)	11.5 - 13.4
140 F (60)	5.87 - 6.61
176 F (80)	3.19 - 3.51
212 F (100)	1.83 - 1.97
248 F (120)	1.11 - 1.17
284 F (140)	.69 - .73

Pin #	Description	Resistance
1	Solenoid "A"	14 to 18 Ohms
2	TCC Solenoid	14 to 18 Ohms
3	EPC Solenoid	4.1 to 5.1 Ohms
4	Solenoid "B"	14 to 18 Ohms
5	ATF Temp. Sensor	See Chart
6	Blank	
7	Solenoid "C"	14 to 18 Ohms
8	ATF Temp. Sensor	See Chart
9	Blank	



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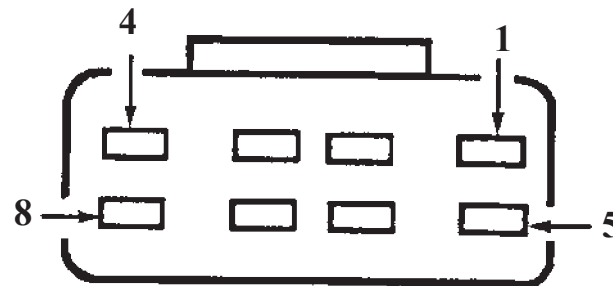
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**Solenoid & Harness Information Ford/Mazda**

Temperature F, (C)	Resistance in K/Ohms.
-40 to -4 F, (-40 to -20)	967 - 284
-3 to 31 F, (-19 to -1)	284 - 100
32-68 F, (0-20)	100 - 37
69-104 F (21-40)	37 - 16
105-158 F (41-70)	16 - 5
159-194 F (71-90)	5 - 2.7
195-230 F (91-110)	2.7 - 1.5
231-266 F (111-130)	1.5 - 0.8
267-302 F (131-150)	0.8 - 0.54

Pin #	Description	Resistance
1	EPC Solenoid	4 to 6 Ohms
2	TFT Sensor	
3	Shift Solenoid C	12 to 20 Ohms
4	Shift Solenoid A	12 to 20 Ohms
5	Blank	
6	TFT Sensor	
7	TCC Solenoid	12 to 20 Ohms
8	Shift Solenoid B	12 to 20 Ohms



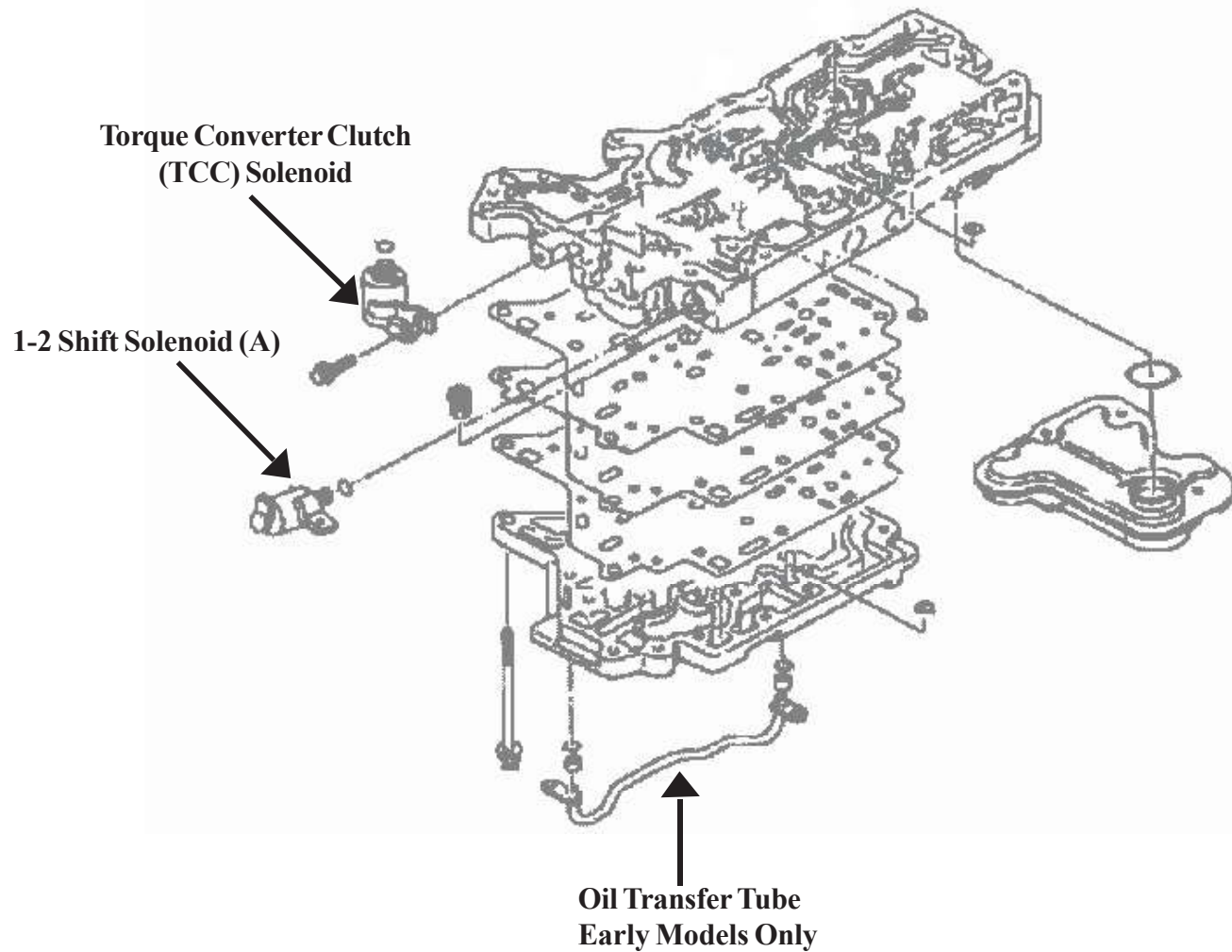
Ford/Mazda

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### Solenoid Identification

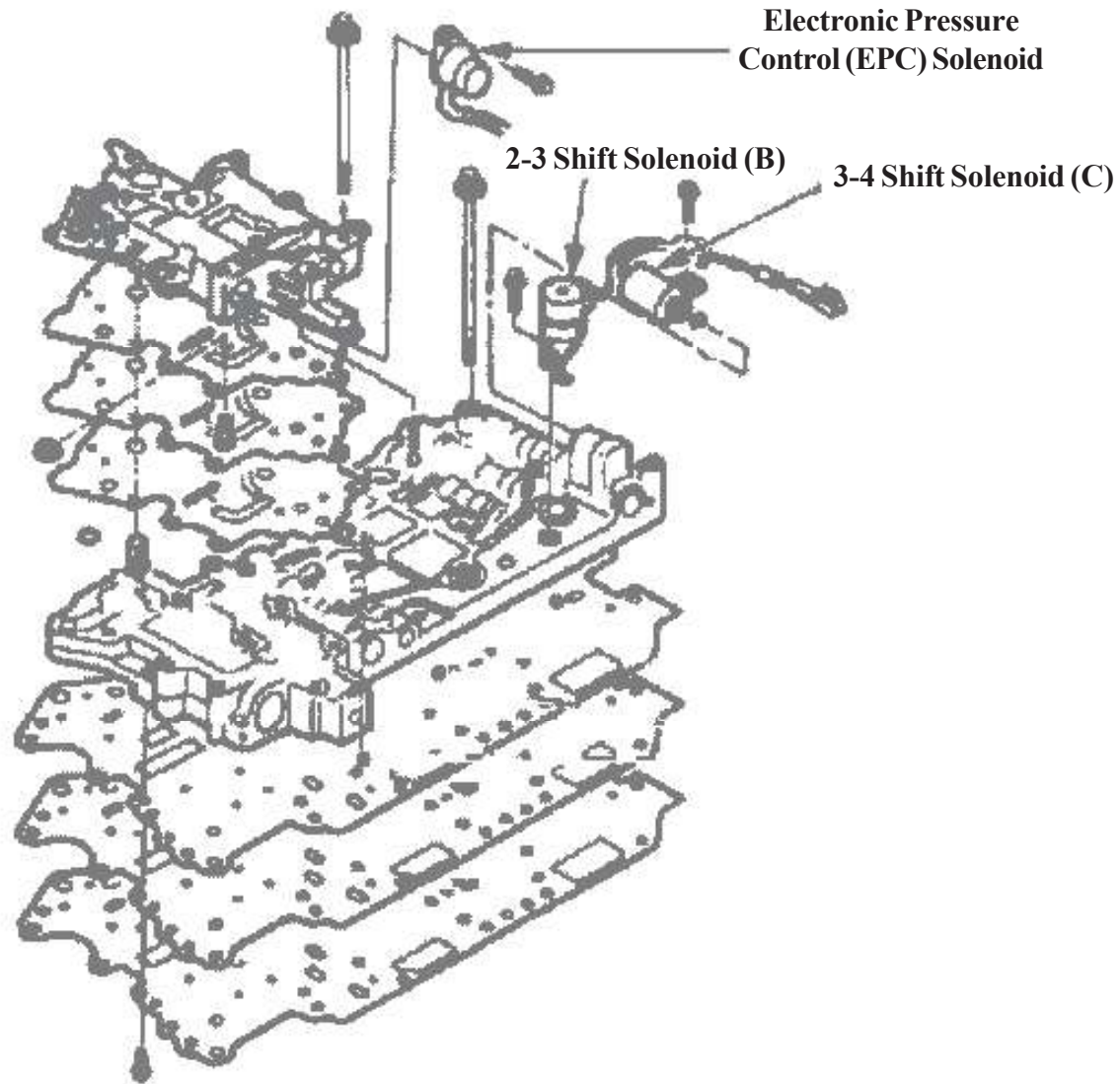


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### Solenoid Identification

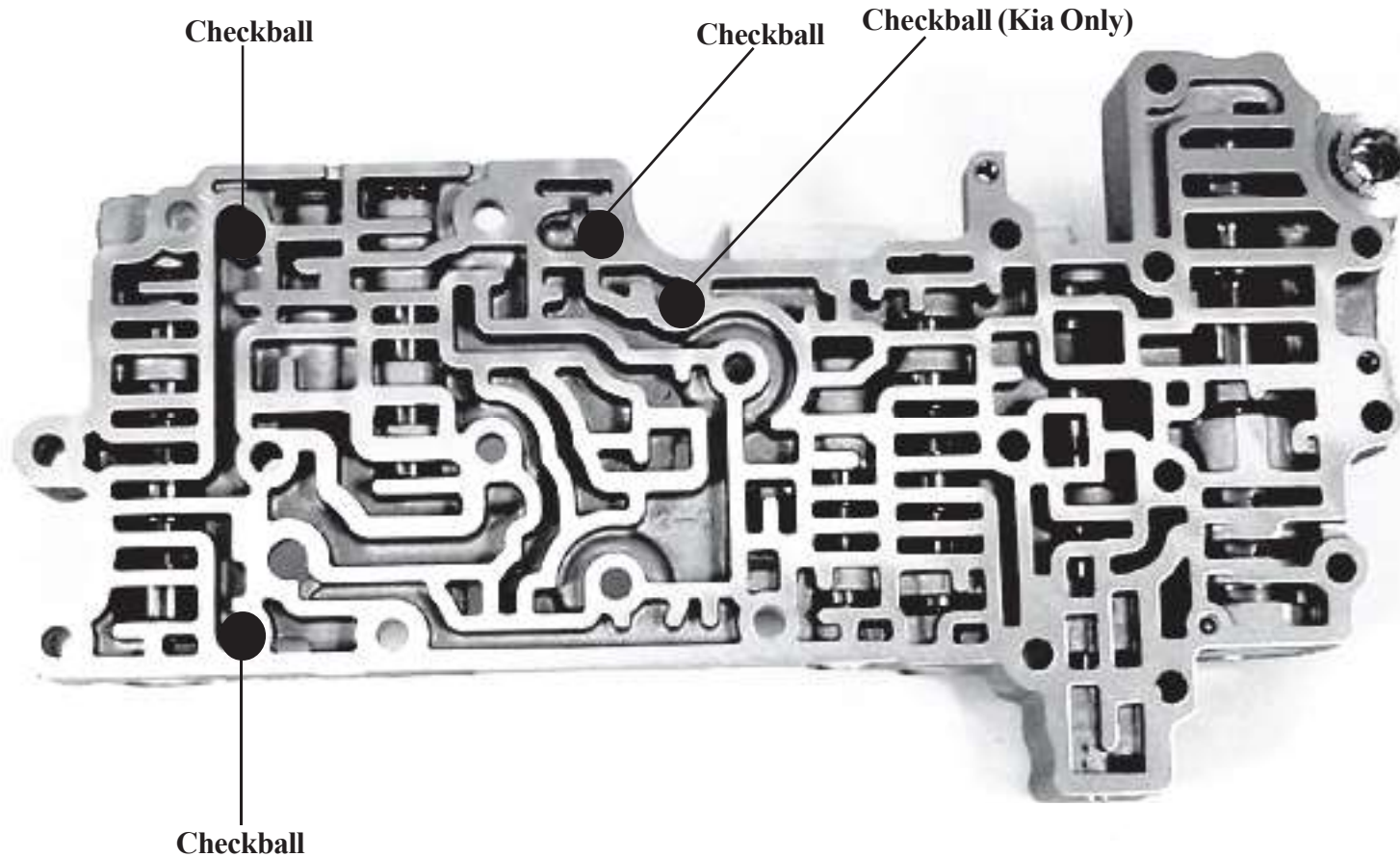


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### Checkball Locations Main Valve Body - Early (w/tube)

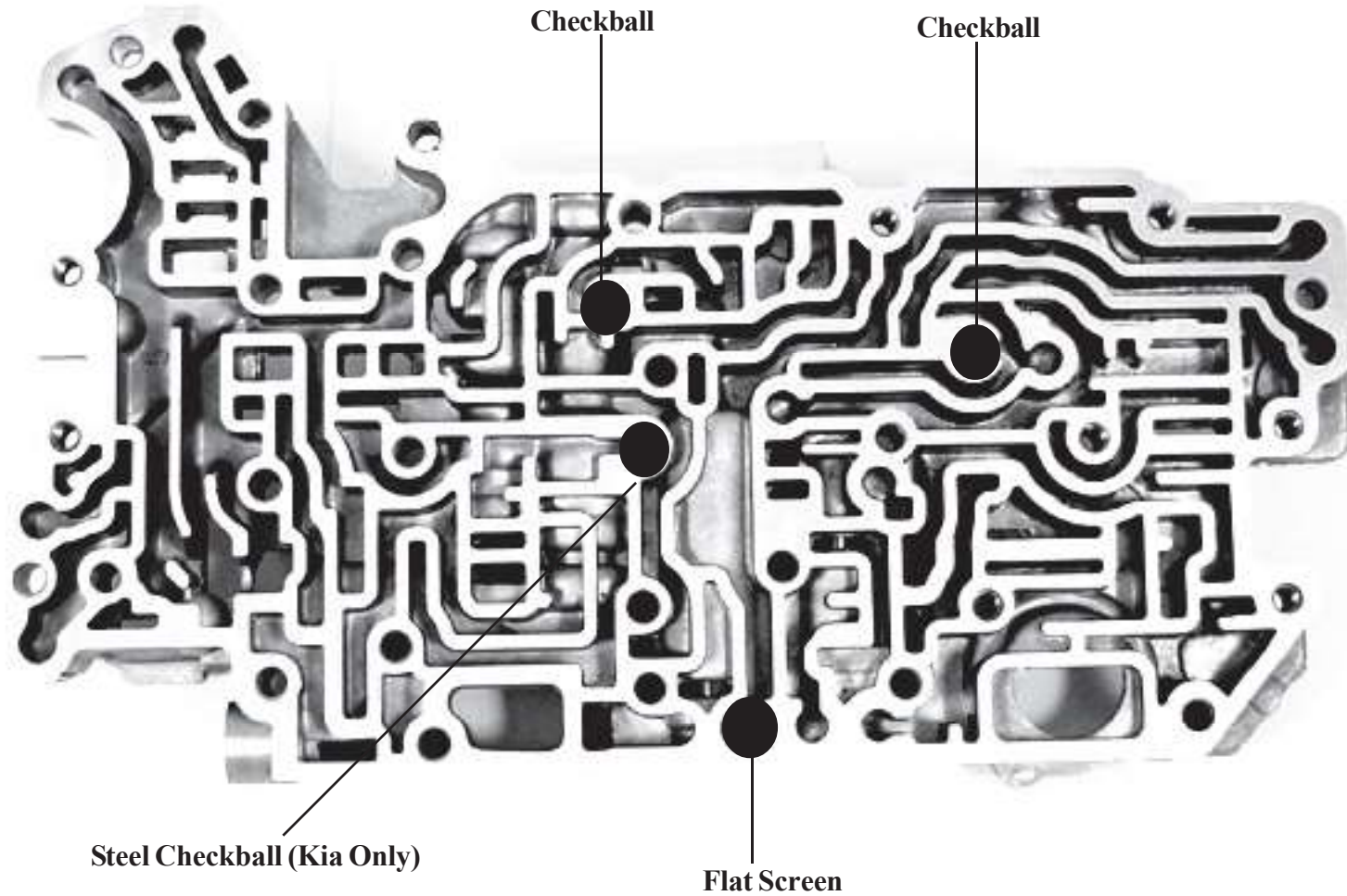


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Checkball Locations Premain Valve Body- Early (w/tube)



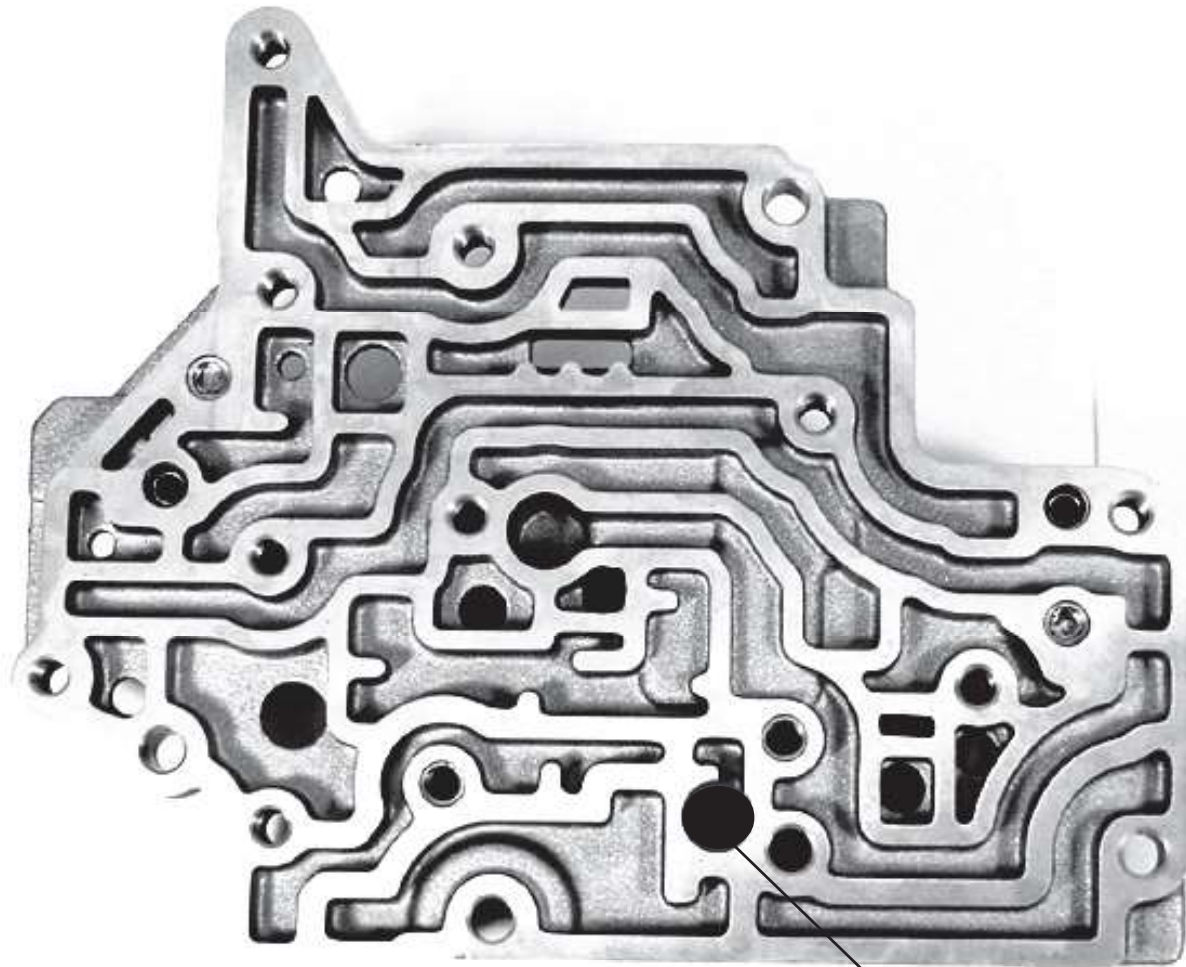


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**Filter Locations Lower Valve Body - Early (w/tube)**



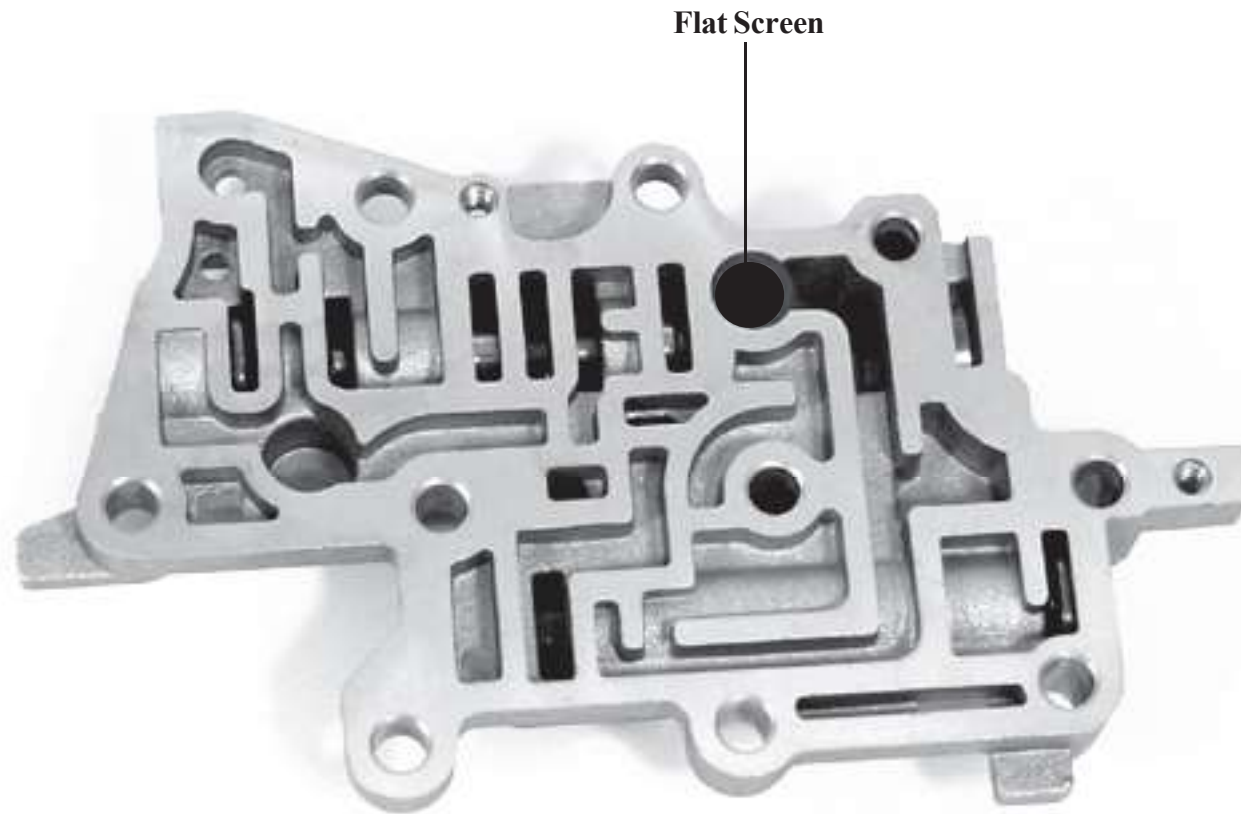
**Flat Screen**

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**Filter Locations Upper Valve Body - Early (w/tube)**

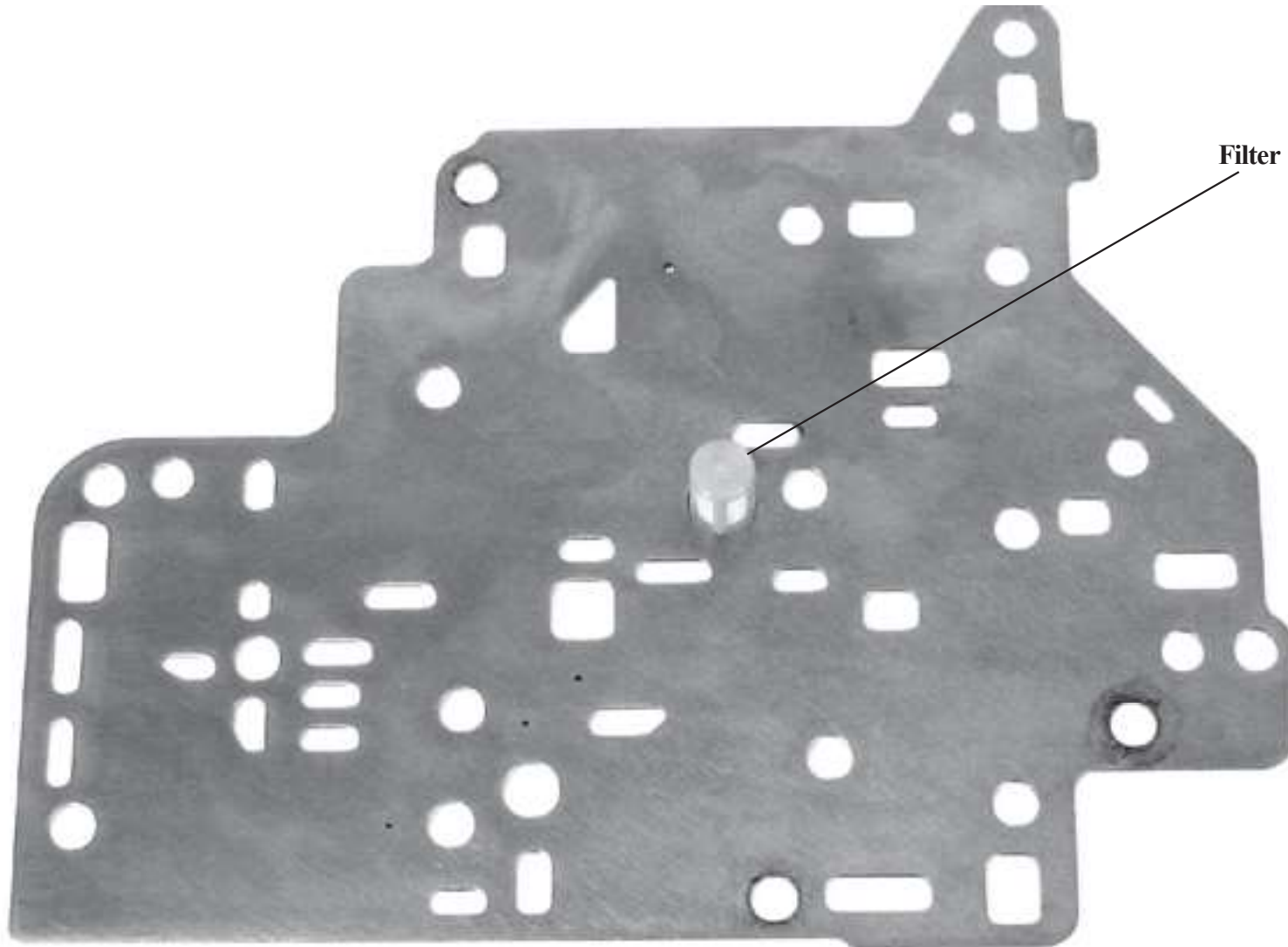


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**Filter Locations Lower Valve Body Plate - Early (w/tube)**

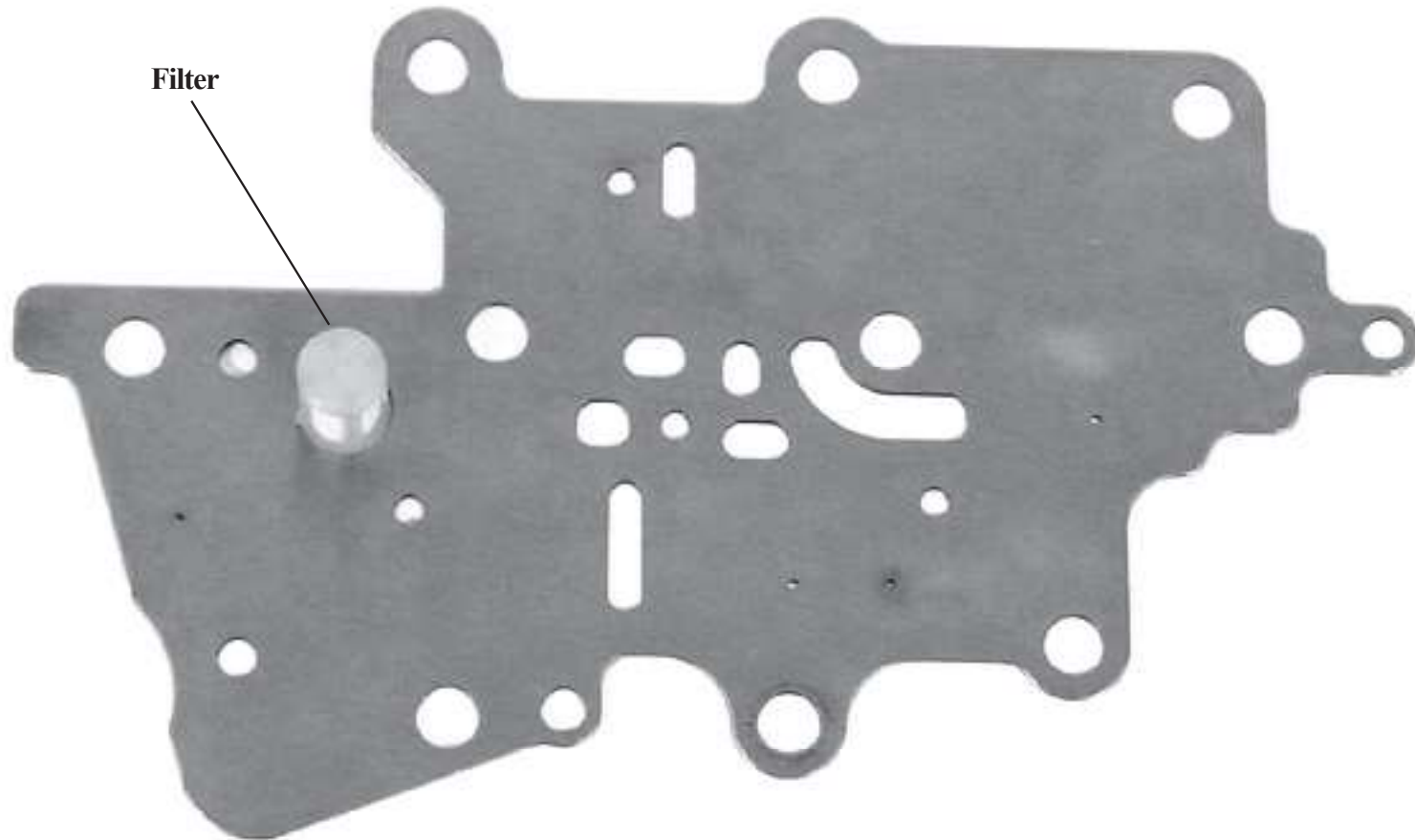


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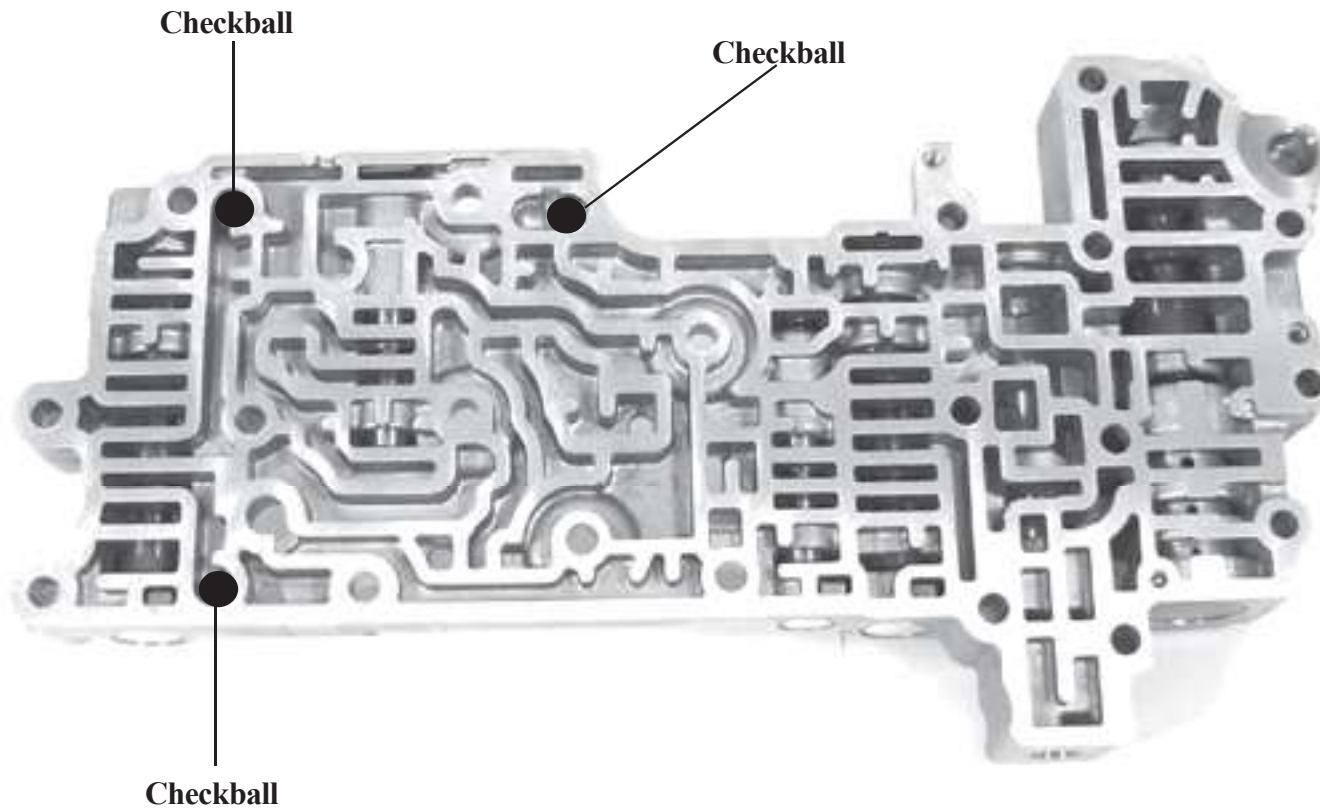


**Filter Locations Upper Valve Body Plate - Early (w/tube)**



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**Checkball Locations Main Valve Body - Late (w/o tube)**

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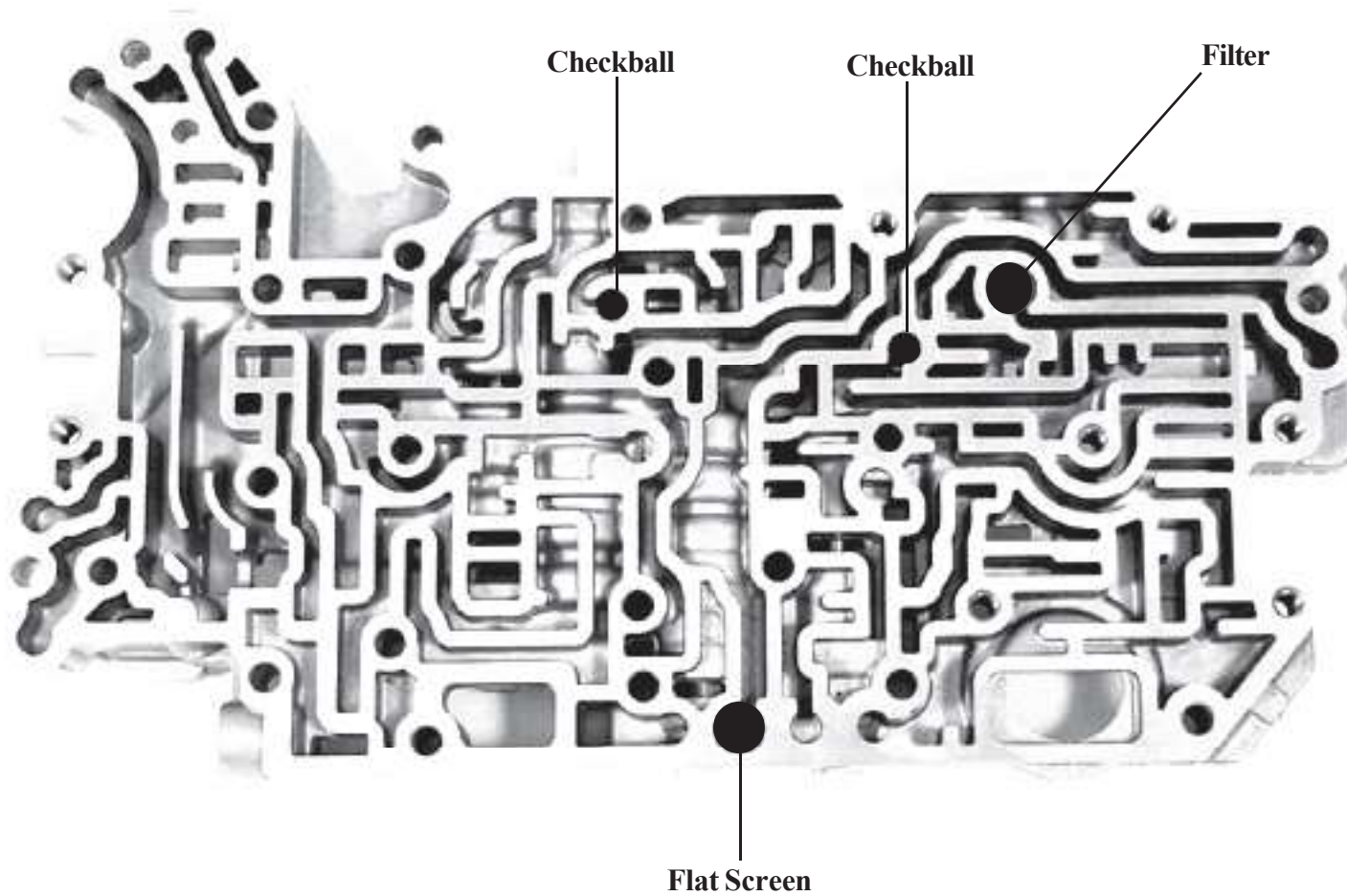


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**Checkball Locations Premain Valve Body - Late (w/o tube)**

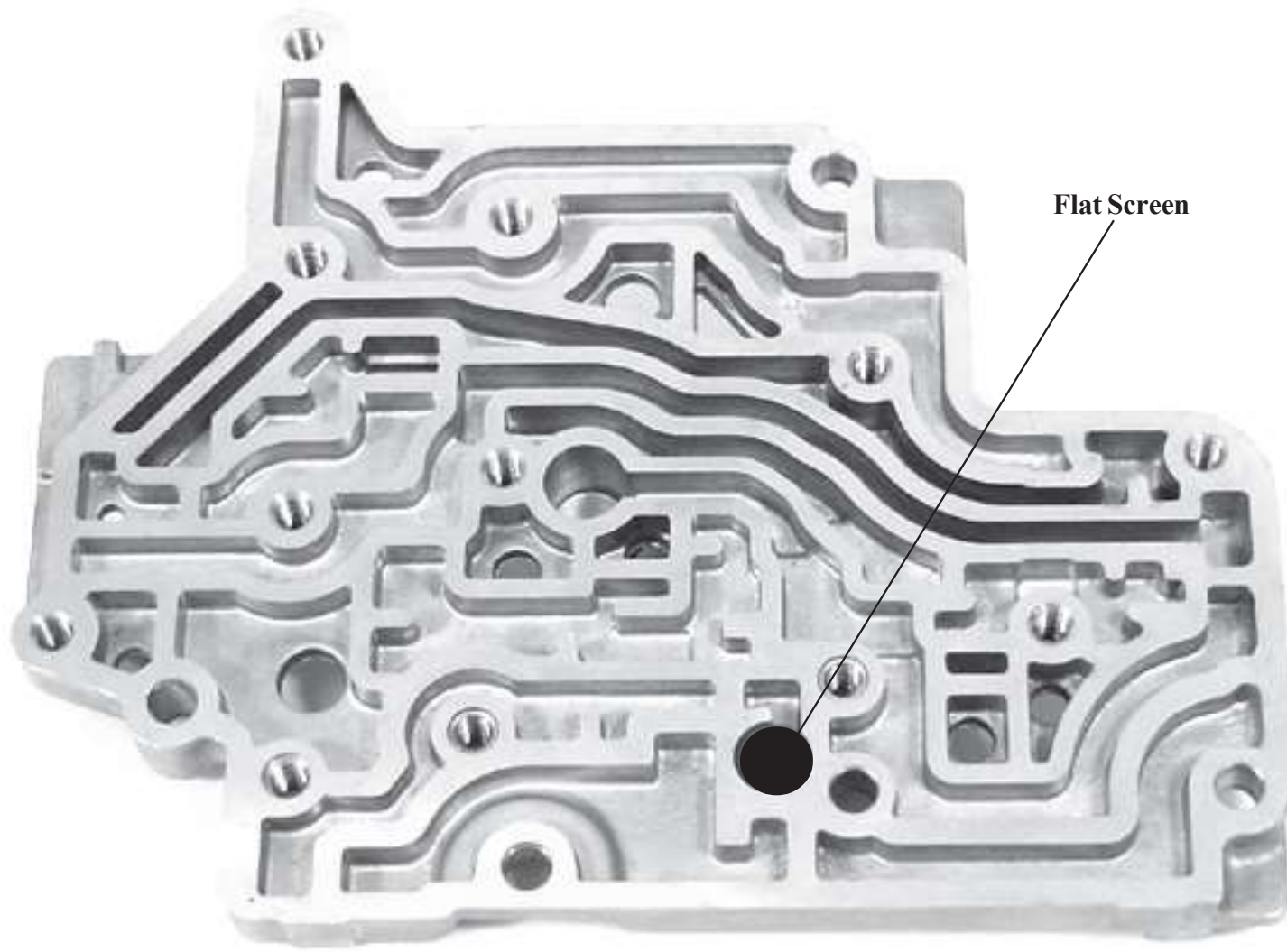


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Filter Locations Lower Valve Body - Late (w/o tube)



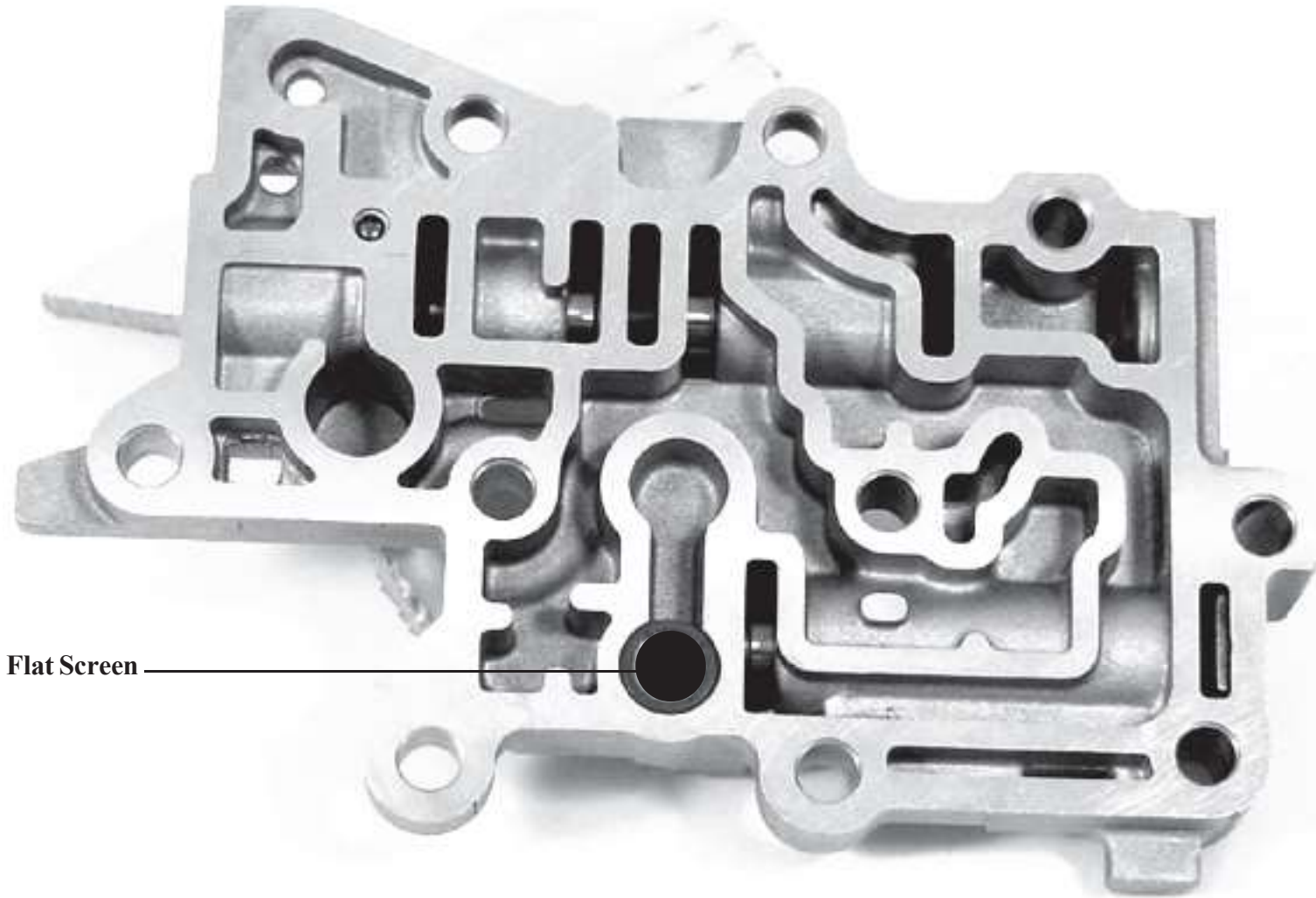
Flat Screen

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**Filter Locations Upper Valve Body - Late (w/o tube)**



**Flat Screen** —————



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**Filter Locations Upper Valve Body Plate - Late (w/o tube)**

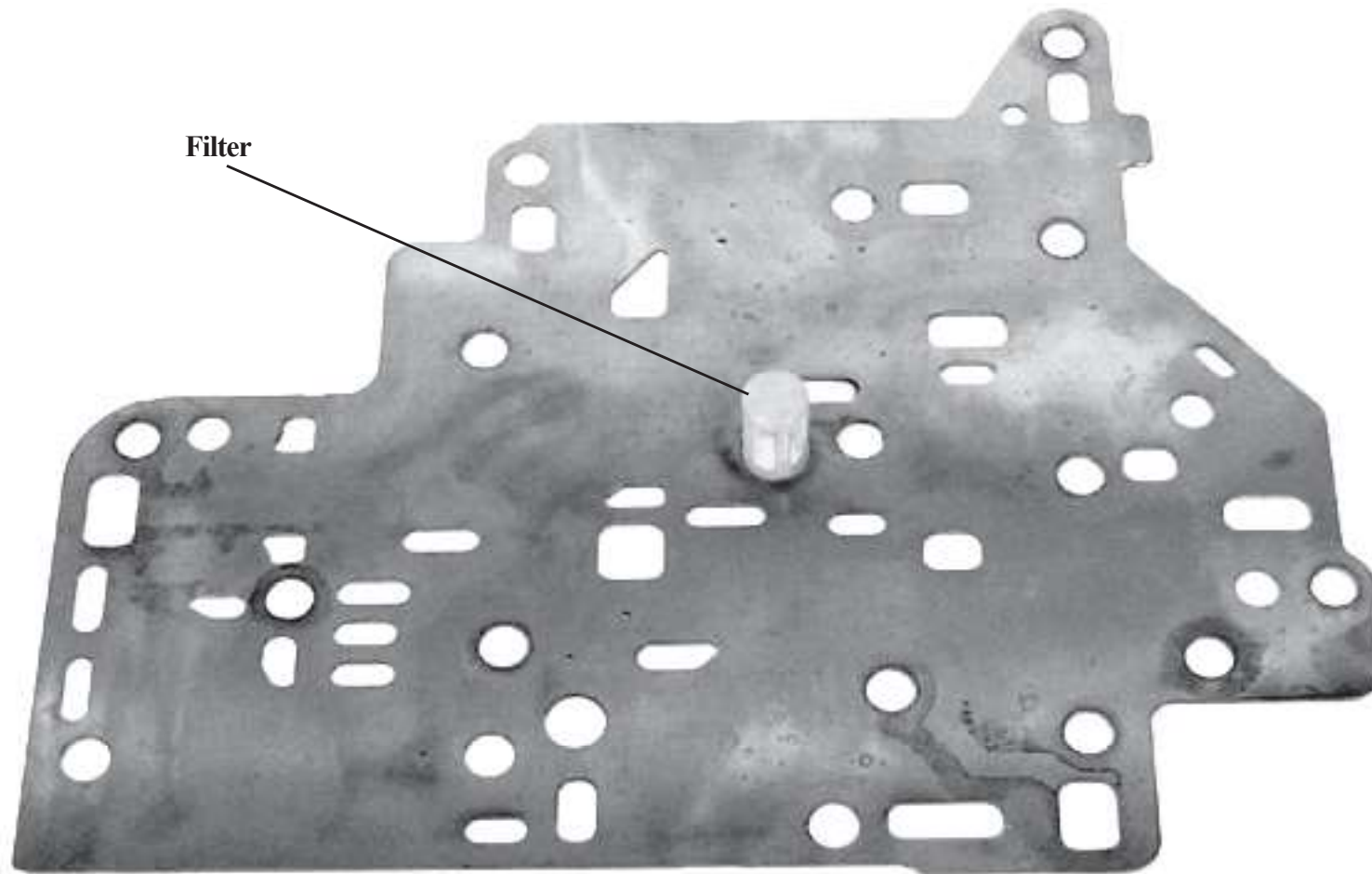


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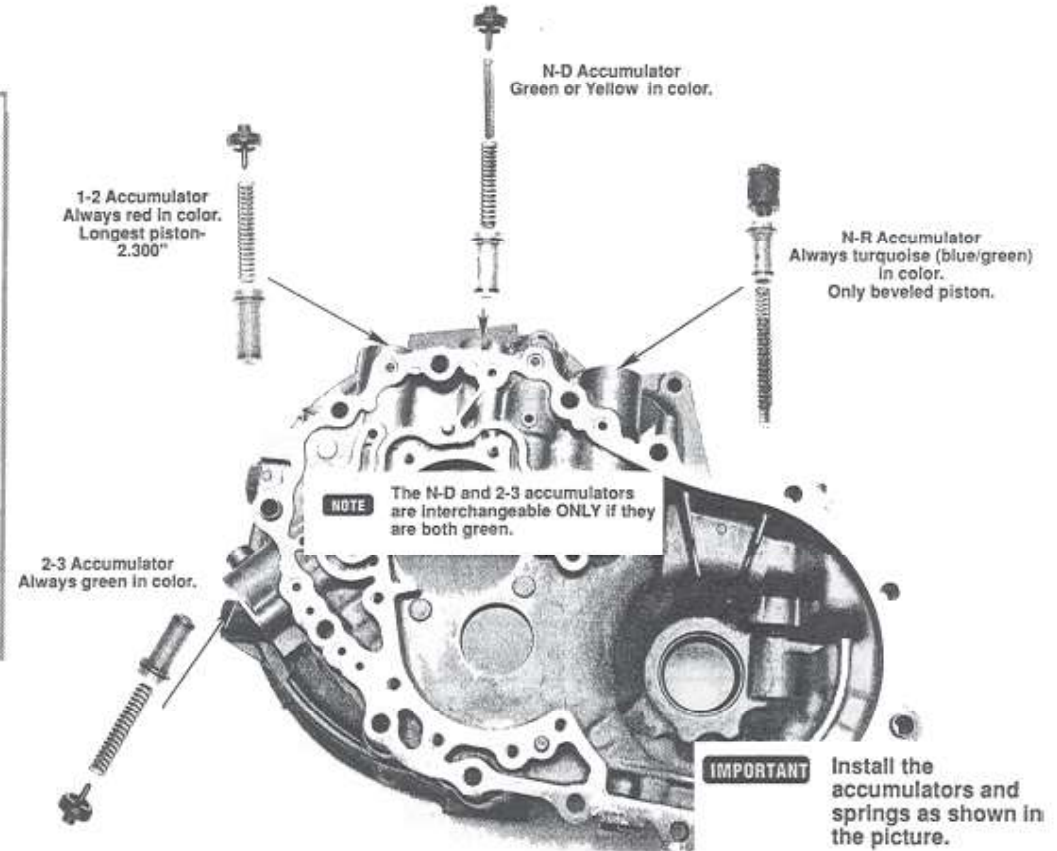
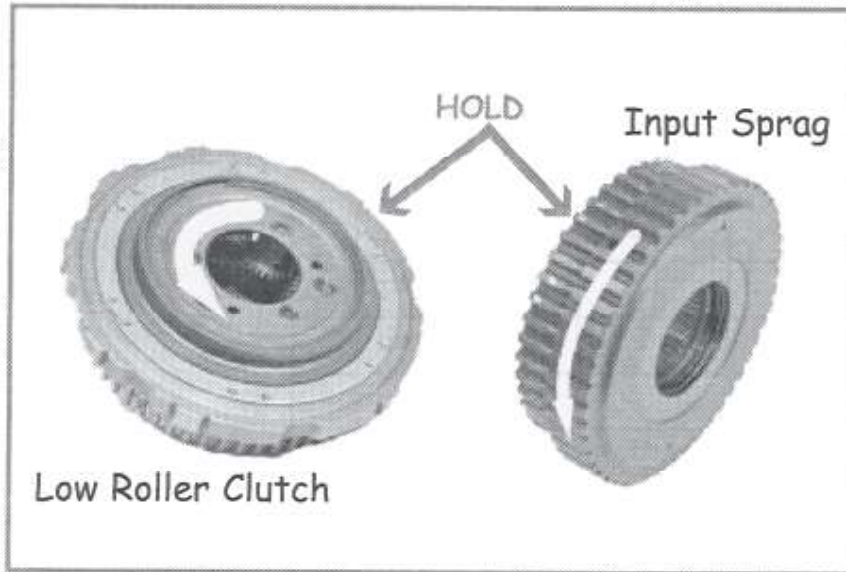
**Filter Locations Lower Valve Body Plate - Late (w/o tube)**



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## Technical Tips For Rebuilding This Unit

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## Accumulator ID