sonnax

Critical Wear Areas & Vacuum Test Locations

Drop-In Zip Valve™ Parts Available

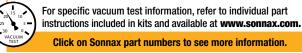


NOTE: OE valves are shown in rest position and should be tested in rest position unless otherwise indicated. Test locations are pointed to with an arrow. Springs are not shown for visual clarity. Low vacuum reading indicates wear and Sonnax parts are noted for replacement.

Lower Valve Body • Jaguar ZF6HP26, M-Shift

NOTE: ZF6HP19/26/32 (Gen. 1) applications with an 053 separator plate have significantly different valve line-ups and locations.

Reference Vacuum Test Guide for 053 plate for test locations and replacement parts.



Test 2: Test this Solenoid Pressure End Plugs Z port with valve Vacuum test these NOTE: Insert **Regulator Valve** in regulating plugs at the retainer · Inconsistent shift quality internal • Flare/Harsh shifts • Gear ratio codes position. Block slot. This checks both end plugs with hole Replace with Sonnax Part No. valve inboard • Harsh upshifts/downshifts diameters of the plug. facing outboard. 95740-25K with enclosed • Solenoid performance codes testing spring. • Delayed Forward/Reverse Replace with Sonnax Part Nos. **Use Testing Drive Enable Valve** 95740-17A or 95740-17K Spring Delayed Forward 95740-17K Requires F-95740-TL17 & Harsh Forward **VB-FIX** Solenoid Multiplex Valve Clutch A Control 20 • Wrong gear starts • Gear ratio codes **Pressure Regulator Valve** Replace with Sonnax Part No. • Downshift bind-ups • 4-5 Shift concerns 95740-04A Test 1: • Flare shifts • Delayed/Harsh Forward In Rest • Excess clutch overlap & clutch distress **Clutch D1 Latch Valve** Replace with Sonnax Part Nos. D Clutch burned 95740-08A or 95740-09K or · Slips on take off 95740-21K 95740-09K Requires F-95740-TL8 & VB-FIX **Clutch B Latch Valve** Clutch E Control • B Clutch burned **Pressure Regulator Valve** No 3rd & 5th • Excess clutch overlap & clutch distress • Pressure control out-of-range codes **Lubrication Control Valve** • Downshift bind-ups • 1-2 Bind-up • Planetary/Bushing failure • 3-2 Harsh • Coastdown Neutral • Lube failures • Overheating Replace with Sonnax Part Nos. • Low converter pressure 95740-08A or 95740-08K Replace with Sonnax Part No. 95740-08K Requires Ensure that valve 95740-11K spool is centered F-95740-TL8 & VB-FIX Requires F-95740-TL11 & VB-FIX in location to test. **Bypass Clutch Control** End Plugs, 2 **Regulator Valve Multiple Locations** • TCC codes • Excess TCC slip Inconsistent shift quality • Cycling RPM • Flare/Harsh shifts Replace with Sonnax • Low TCC release pressure Part No. 95740-19K • Rough idle in Reverse Can be vacuum tested from • Overheated converter the outside bore face. Use the Test 1: In Rest Replace with Sonnax Part No. the large rubber cone found in 95740-13K many hand pump kits, or drill a hole through a rubber ball. Requires F-95740-TL13 & VB-FIX Test 2: Test this port with valve in inverted There are numerous OE position. Hold Converter Release circuit/worm-track valve and spring **Regulator Valve** configurations. Main Pressure Regulator Valve in place with • Excess TCC slip RPM They are make, enclosed testing

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• Poor shift quality • Flare/Harsh shifts

95740-03 Pressure Regulator Sleeve

95740-01K Requires F-95740-TL & VB-FIX

Replace with Sonnax Part Nos.

• Erratic line pressure • Delayed/No Reverse

95740-01K Oversized Pressure Regulator Valve Kit or

model, generation and E-

vs. M-Shift dependent. Use

the illustrated port locations as

a guide for identifying specific

valve spools to vacuum test on

alternate circuit configurations.

& related codes

• Harsh TCC apply & release

• Low TCC release pressure

Requires F-95740-TL5 & VB-FIX

Replace with Sonnax Part Nos.

95740-05A or 95740-05K

ZF6-6R60-VacTestGuide 07-13-23

end plug.

Use Test

End Plua

ZF6HP19/26/32 (Gen. 1), Ford 6R60, 6R75, 6R80 (2009-2014)



Critical Wear Areas & Vacuum Test Locations

Drop-In Zip Valve **Parts Available**

NOTE: OE valves are shown in rest position and should be tested in rest position unless otherwise indicated. Test locations are pointed to with an arrow. Springs are not shown for visual clarity. Low vacuum reading indicates wear and Sonnax parts are noted for replacement.

Upper Valve Body • Jaguar ZF6HP26, M-Shift



Test accumulator pistons inverted and off center.

For specific vacuum test information, refer to individual part instructions included in kits and available at www.sonnax.com.

Click on Sonnax part numbers to see more information.

NOTE: ZF6HP19/26/32 (Gen. 1) applications with an 053 separator plate have significantly different valve line-ups and locations. Reference Vacuum Test Guide for 053 plate for test **Accumulator Pistons** % locations and replacement parts. • Downshift clunk • Firm shifts • Erratic EDS solenoid control/EDS codes Replace with Sonnax Part No.

Clutch C Regulator Valve

OE accumulator pistons should be flush with the casting. It is common for the rubber insert to lose tension. Each of these pistons can be vacuum tested from the exhaust hole on the opposite side of the casting.

• 2nd & 6th Slip

95740-15K

- · Clutch failure
- Poor shift quality
- Ratio errors

Replace with Sonnax Part No. 95740-40K

Requires F-95740-TL40 & VB-FIX

Clutch B **Regulator Valve**

- B Clutch burned
- 3rd & 5th Slips
- Slips in Reverse

Clutch D2 **Regulator Valve**

- 1-2 Bind-up
- Downshift clunk
- D Clutch burned

Clutch D2 **Latch Valve**

- Downshift clunk
- 1-2 Bind-up

Clutch D1 Control 38 **Pressure Regulator Valve***

- Bumpy 1-2 upshift
- 2-1 Downshift flare or neutral
- EDS 3 control code

Replace with Sonnax Part Nos. 95740-08A or 95740-08K

95740-08K Requires F-95740-TL8 & VB-FIX

*6R80 applications, 2012-later, have a different design clutch D1 pressure regulator valve. Sonnax part 95740-08K will not work in that application. A guick identification of this valve body is lack of clutch D2 latch valve.

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ZF6-6R60-VacTestGuide 07-13-23



109

110

112

113

111

115

0

116

OE Exploded View

Lower Valve Body • Jaguar ZF6HP26, M-Shift Shown

NOTE: Depending upon vehicle application, the OE springs shown may not be present.

Lower Valve Body Descriptions	
I.D No.	Description
101	Manual Valve
102	Lubrication Control Valve
103	Converter Release Regulator Valve
104	Main Pressure Regulator Valve
105	Bypass Clutch Control Regulator Valve
106	Clutch E Latch Valve
107**	Clutch E Control Pressure Regulator Valve
108	Clutch A Control Pressure Regulator Valve
109	Delay Accumulator Piston
110	Solenoid Multiplex Valve
111	Drive Enable Valve
112	Clutch D1 Latch Valve
113	Solenoid Pressure Regulator Valve
115	Clutch B Latch Valve
116	Clutch A Latch Valve

¹⁰⁷ 105 106 102 108 101 103 **NOTE: ZF6HP19/26/32 (Gen. 1) applications with an 053 separator plate

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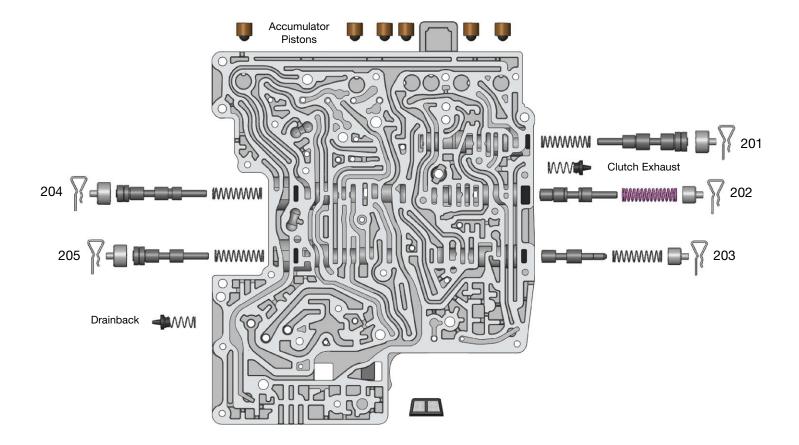
104

have significantly different valve line-ups and locations. Reference Vacuum Test Guide for 053 plate for test locations and replacement parts.



OE Exploded View

Upper Valve Body • Jaguar ZF6HP26, M-Shift Shown Here



Upper Valve Body Descriptions		
I.D. No.	Description	
201	Clutch B Regulator Valve	
202	Clutch D2 Regulator Valve	
203	Clutch D2 Latch Valve	
204	Clutch C Regulator Valve	
205	Clutch D1 Control Pressure Regulator Valve	