



Technical Service Information

FORD 4F27E NEUTRAL IN 4TH "HOT"

COMPLAINT: Vehicles equipped with the 4F27E transaxle may exhibit a neutral condition in 4th gear after the vehicle is "Hot."

CAUSE: The cause may be, the bonded solenoid gasket is leaking solenoid pressure feeding Shift Solenoid "A." This will cause the 3-4 shift valve not to stroke fully, creating neutral.

CORRECTION: Replace the bonded solenoid gasket as shown in Figure 1. Refer to Figure 2 for the location of the bonded gasket and Figure 3 for the remainder of the valve body assembly.

SERVICE INFORMATION:

BONDED SOLENOID GASKET (Ford Part Number).....YS4Z-7Z490-AA

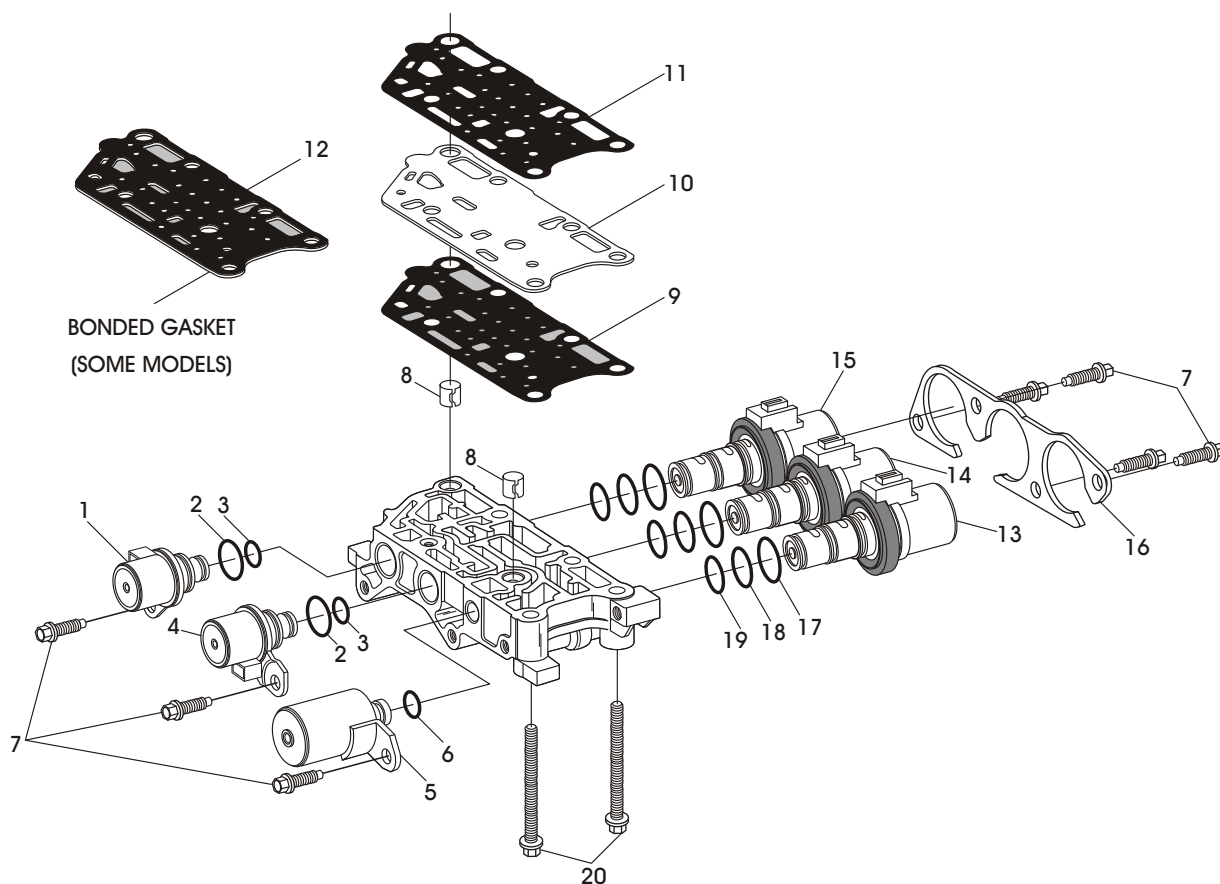
BONDED SOLENOID GASKET



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Figure 1

SOLENOID BODY EXPLODED VIEW

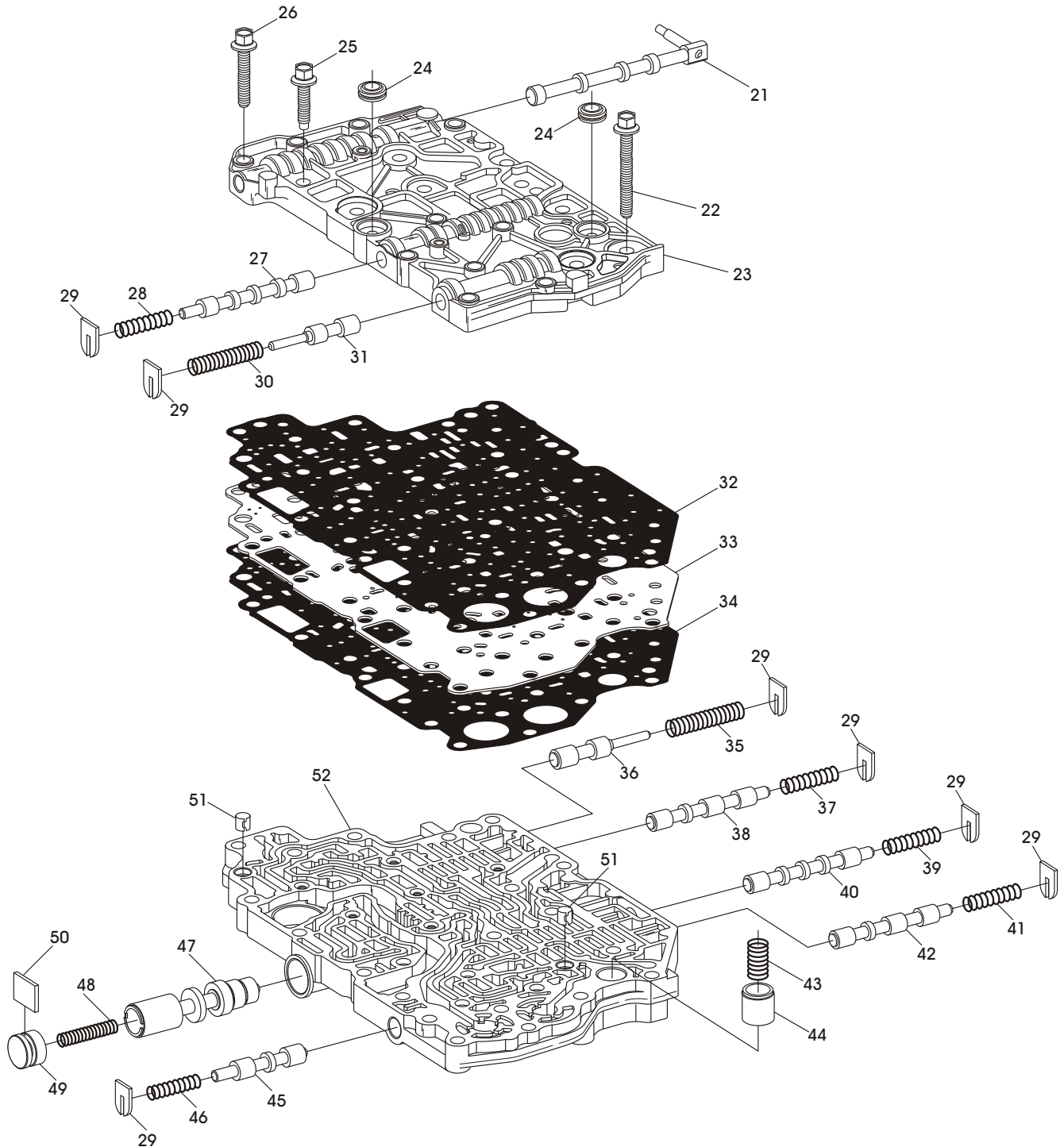


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|---|---|
| 1 SHIFT SOLENOID "B" | 27 LOW/REVERSE SHIFT VALVE |
| 2 SHIFT SOLENOID "A" AND "B" LARGE "O" RING SEAL | 28 LOW/REVERSE SHIFT VALVE SPRING |
| 3 SHIFT SOLENOID "A" AND "B" SMALL "O" RING SEAL | 29 VALVE LINE-UP RETAINER (7 REQUIRED) |
| 4 SHIFT SOLENOID "A" | 30 SOLENOID PRESSURE REGULATOR VALVE SPRING |
| 5 ELECTRONIC PRESSURE CONTROL (EPC) SOLENOID | 31 SOLENOID PRESSURE REGULATOR VALVE |
| 6 EPC SOLENOID "O" RING SEAL | 32 UPPER VALVE BODY TO SPACER PLATE GASKET |
| 7 SOLENOID RETAINING BOLTS (7 REQUIRED) | 33 VALVE BODY SPACER PLATE |
| 8 SOLENOID BODY TO LOWER V. B. ALIGNMENT DOWELS (2 REQ) | 34 LOWER VALVE BODY TO SPACER PLATE GASKET |
| 9 SOLENOID BODY TO SPACER PLATE GASKET, WITH SCREENS | 35 TORQUE CONVERTER RELIEF VALVE SPRING |
| 10 SOLENOID BODY SPACER PLATE | 36 TORQUE CONVERTER RELIEF VALVE |
| 11 SOLENOID BODY SPACER PLATE TO LOWER V. B. GASKET | 37 TORQUE CONVERTER CLUTCH CONTROL VALVE SPRING |
| 12 SPACER PLATE WITH MOLDED GASKETS (SOME MODELS) | 38 TORQUE CONVERTER CLUTCH CONTROL VALVE |
| 13 PWM SHIFT SOLENOID "C" | 39 CLUTCH CONTROL VALVE SPRING |
| 14 PWM SHIFT SOLENOID "E" | 40 CLUTCH CONTROL VALVE |
| 15 PWM SHIFT SOLENOID "D" | 41 3-4 SHIFT VALVE SPRING |
| 16 PWM SHIFT SOLENOID RETAINING PLATE | 42 3-4 SHIFT VALVE |
| 17 PWM SHIFT SOLENOID LARGE "O" RING SEAL (3 REQUIRED) | 43 SHIFT SOLENOID "C" ACCUMULATOR SPRING |
| 18 PWM SHIFT SOLENOID MEDIUM "O" RING SEAL (3 REQUIRED) | 44 SHIFT SOLENOID "C" ACCUMULATOR PISTON |
| 19 PWM SHIFT SOLENOID SMALL "O" RING SEAL (3 REQUIRED) | 45 SOLENOID SHIFT VALVE |
| 20 SOLENOID BODY TO CASE BOLTS, 71mm LENGTH (2 REQUIRED) | 46 SOLENOID SHIFT VALVE SPRING |
| 21 MANUAL SHIFT VALVE | 47 MAIN PRESSURE REGULATOR VALVE |
| 22 SOLENOID BODY RETAINING BOLTS, 59mm LENGTH (5 REQUIRED) | 48 MAIN PRESSURE REGULATOR VALVE SPRING |
| 23 UPPER VALVE BODY CASTING | 49 MAIN PRESSURE REGULATOR VALVE BORE PLUG |
| 24 VALVE BODY TO CASE SEALS (2 REQUIRED) | 50 MAIN PRESSURE REGULATOR VALVE BORE PLUG RETAINER |
| 25 UPPER V. B. TO LOWER V. B. BOLTS, 32mm LENGTH (5 REQUIRED) | 51 LOWER V. B. TO UPPER V. B. ALIGNMENT DOWELS (2 REQUIRED) |
| 26 UPPER V. B. TO LOWER V. B. BOLTS, 40mm LENGTH (9 REQUIRED) | 52 LOWER VALVE BODY CASTING |

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Figure 2

UPPER AND LOWER VALVE BODY EXPLODED VIEW



*Solenoid Body and
Legend Found in Figure 2*

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Figure 3

AUTOMATIC TRANSMISSION SERVICE GROUP

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