

# **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

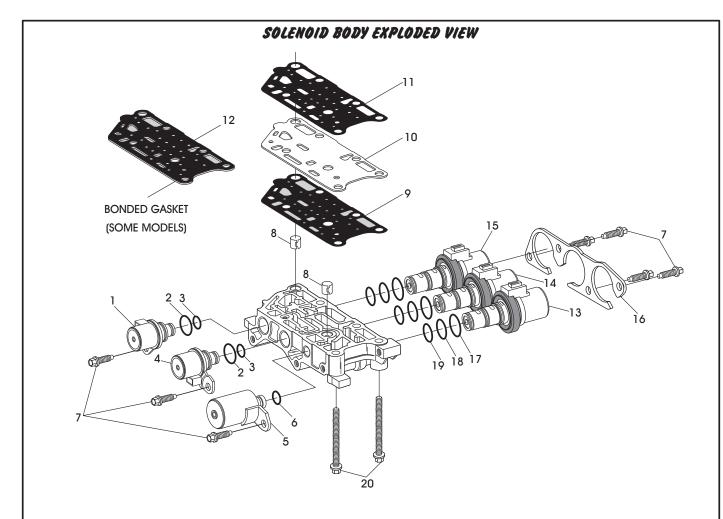
# BONDED SOLENOID GASKET Copyright © 2005 ATSG

Figure 1
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## **Technical Service Information**



- 1 SHIFT SOLENOID "B"
- 2 SHIFT SOLENOID "A" AND "B" LARGE "O" RING SEAL
- 3 SHIFT SOLENOID "A" AND "B" SMALL "O" RING SEAL
- 4 SHIFT SOLENOID "A"
- 5 ELECTRONIC PRESSURE CONTROL (EPC) SOLENOID
- 6 EPC SOLENOID "O" RING SEAL
- 7 SOLENOID RETAINING BOLTS (7 REQUIRED)
- 8 SOLENOID BODY TO LOWER V. B. ALIGNMENT DOWELS (2 REQ)
- 9 SOLENOID BODY TO SPACER PLATE GASKET, WITH SCREENS
- 10 SOLENOID BODY SPACER PLATE
- 11 SOLENOID BODY SPACER PLATE TO LOWER V. B. GASKET
- 12 SPACER PLATE WITH MOLDED GASKETS (SOME MODELS)
- 13 PWM SHIFT SOLENOID "C"
- 14 PWM SHIFT SOLENOID "E"
- 15 PWM SHIFT SOLENOID "D"
- 16 PWM SHIFT SOLENOID RETAINING PLATE
- 17 PWM SHIFT SOLENOID LARGE "O" RING SEAL (3 REQUIRED)
- 18 PWM SHIFT SOLENOID MEDIUM "O" RING SEAL (3 REQUIRED)
- 19 PWM SHIFT SOLENOID SMALL "O" RING SEAL (3 REQUIRED)
- 20 SOLENOID BODY TO CASE BOLTS, 71 mm LENGTH (2 REQUIRED)
- 21 MANUAL SHIFT VALVE
- 22 SOLENOID BODY RETAINING BOLTS, 59MM LENGTH (5 REQUIRED)
- 23 UPPER VALVE BODY CASTING
- 24 VALVE BODY TO CASE SEALS (2 REQUIRED)
- 25 UPPER V. B. TO LOWER V. B. BOLTS, 32MM LENGTH (5 REQUIRED)
- 26 UPPER V. B. TO LOWER V. B. BOLTS, 40MM LENGTH (9 REQUIRED)

- 27 LOW/REVERSE SHIFT VALVE
- 28 LOW/REVERSE SHIFT VALVE SPRING
- 29 VALVE LINE-UP RETAINER (7 REQUIRED)
- 30 SOLENOID PRESSURE REGULATOR VALVE SPRING
- 31 SOLENOID PRESSURE REGULATOR VALVE
- 32 UPPER VALVE BODY TO SPACER PLATE GASKET
- 33 VALVE BODY SPACER PLATE
- 34 LOWER VALVE BODY TO SPACER PLATE GASKET
- 35 TORQUE CONVERTER RELIEF VALVE SPRING
- 36 TORQUE CONVERTER RELIEF VALVE
- 37 TORQUE CONVERTER CLUTCH CONTROL VALVE SPRING
- 38 TORQUE CONVERTER CLUTCH CONTROL VALVE
- 39 CLUTCH CONTROL VALVE SPRING
- 40 CLUTCH CONTROL VALVE
- 41 3-4 SHIFT VALVE SPRING
- 42 3-4 SHIFT VALVE
- 43 SHIFT SOLENOID "C" ACCUMULATOR SPRING
- 44 SHIFT SOLENOID "C" ACCUMULATOR PISTON
- 45 SOLENOID SHIFT VALVE
- 46 SOLENOID SHIFT VALVE SPRING
- 47 MAIN PRESSURE REGULATOR VALVE
- 48 MAIN PRESSURE REGULATOR VALVE SPRING
- 49 MAIN PRESSURE REGULATOR VALVE BORE PLUG
  50 MAIN PRESSURE REGULATOR VALVE BORE PLUG RETAINER
- 51 LOWER V. B. TO UPPER V. B. ALIGNMENT DOWELS (2 REQUIRED)
- 52 LOWER VALVE BODY CASTING

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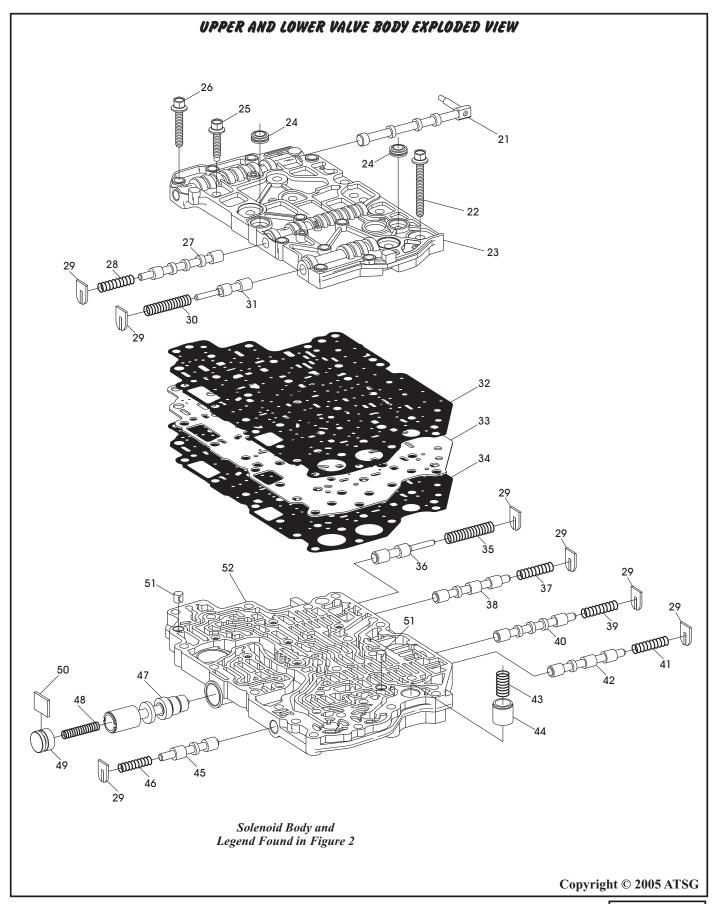


Figure 3
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