FORD/MAZDA 4F27E/FN4A-EL

P0750, P0751 OR NEUTRALIZING IN 4TH

COMPLAINT: Before or after overhaul, Ford or Mazda vehicles equipped with the 4F27E or FN4A-EL transaxle may exhibit a Diagnostic Trouble Code P0750 Shift Solenoid "A" Circuit fault or P0751 Shift Solenoid "A" performance code along with a "Neutralizing" 3-4 upshift.

CAUSE: The cause may be, an electronically or mechanically faulty "A" Shift Solenoid. Due to a poor ground strap connection internally of the solenoid casing, the "A" Shift solenoid will not be able to stroke the 3-4 shift valve fully creating a Neutralizing 3-4 upshift and the Diagnostic Trouble codes.

CORRECTION: To correct this condition, refer to Figure 2 to locate the placement of the "A" Shift Solenoid. Refer to Figure 1 to mechanically air check the "A" Shift Solenoid. Refer to Figure 3 to verify the correct ohm value of the "A" Shift Solenoid. Replace the solenoid as necessary.

SERVICE INFORMATION:

"A" SHIFT SOLENOID (Ford Part Number).....XS4Z-7G383-AA

"A" SOLENOID MECHANICAL CHECK

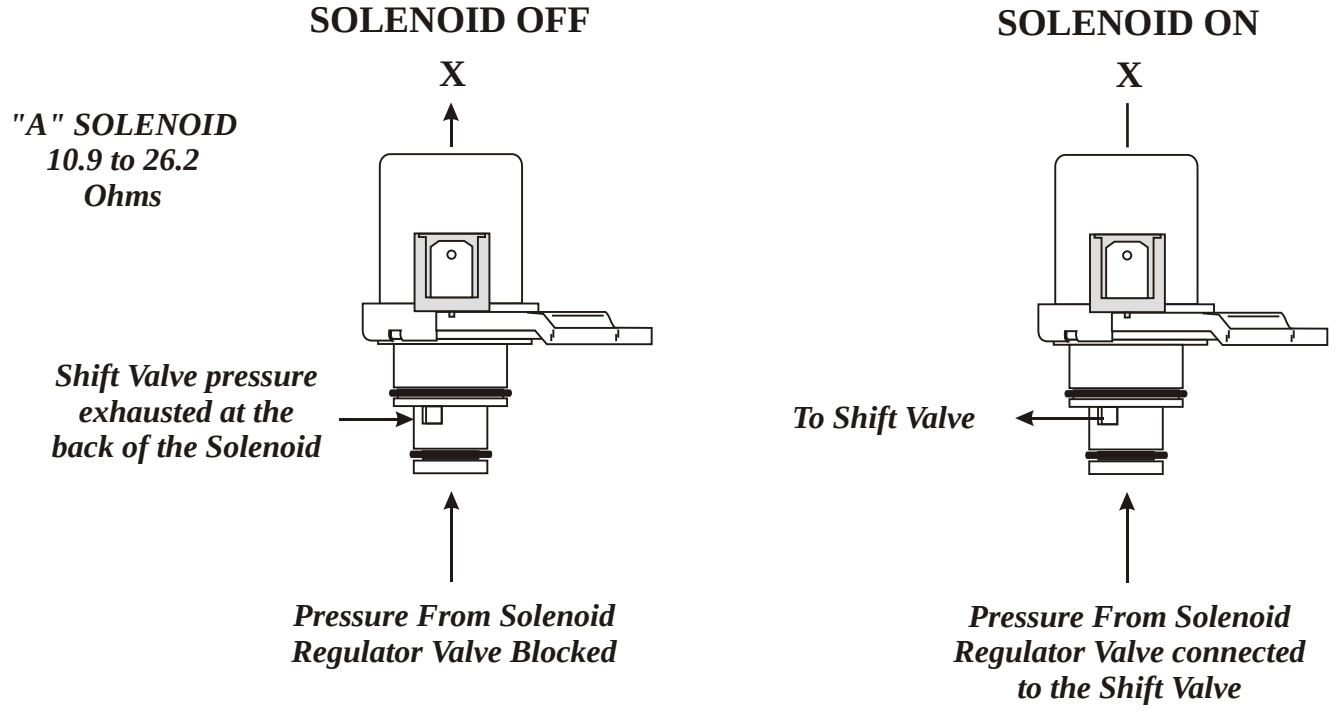

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Figure 1

SOLENOID IDENTIFICATION
AND CONNECTOR COLOR IDENTIFICATION

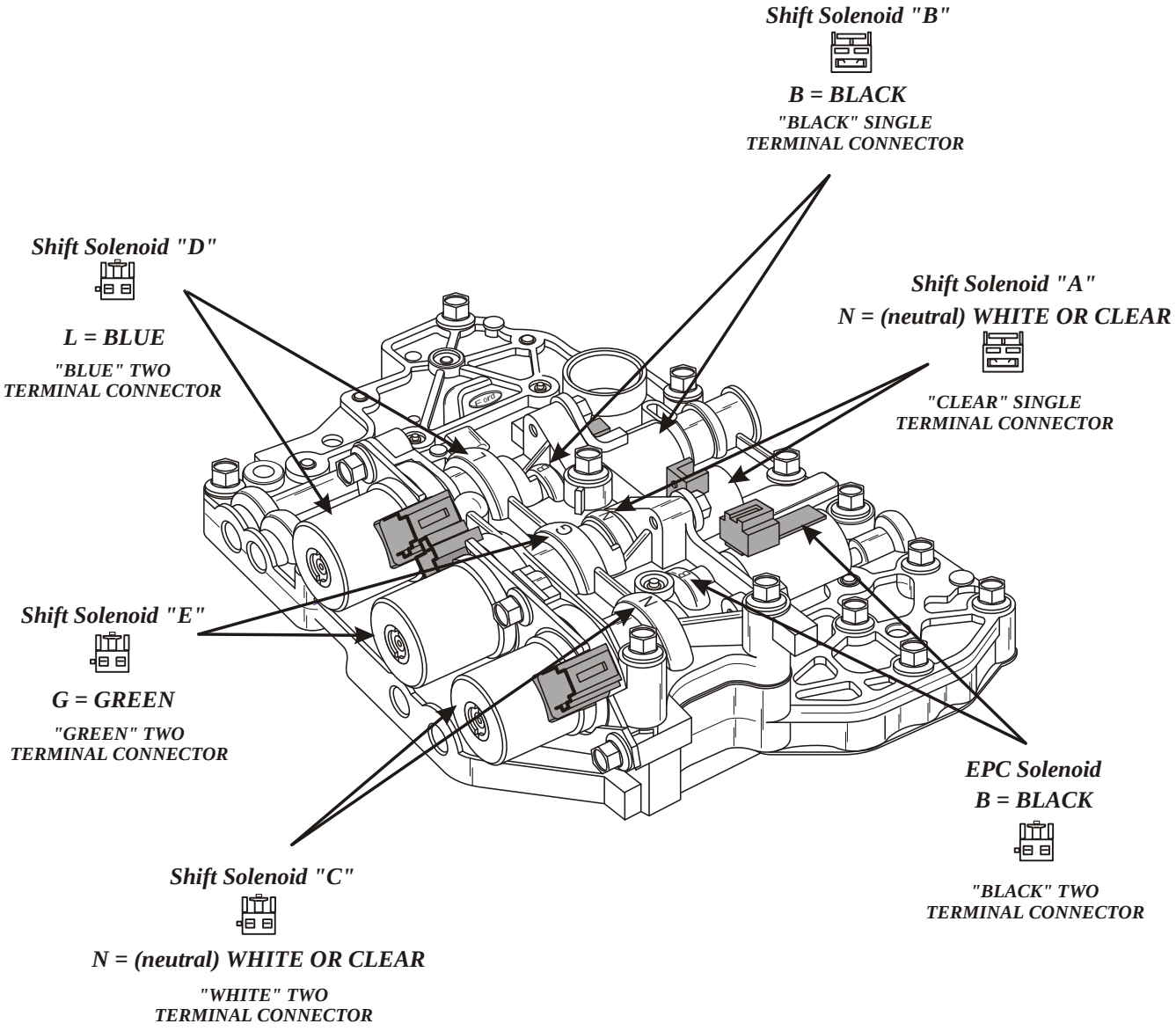

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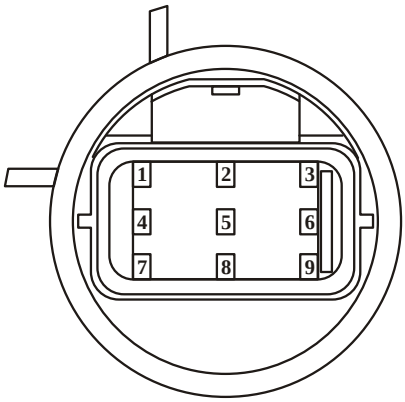
Figure 2



Transaxle Case Connector
(Face View)

INTERNAL TRANSAXLE COMPONENTS RESISTANCE CHART		
Terminals	*Transaxle Component*	*Ohms Resistance At 20°C (70°F)*
6 and Gnd.	*Shift Solenoid "A" (On-Off)*	*10.9 - 26.2*
8 and Gnd.	*Shift Solenoid "B" (On-Off)*	*10.9 - 26.2*
3 and Gnd.	*Shift Solenoid "C" (PWM)*	*1.0 - 4.2*
9 and Gnd.	*Shift Solenoid "D" (PWM)*	*1.0 - 4.2*
1 and Gnd.	*Shift Solenoid "E" (PWM)*	*1.0 - 4.2*
2 and 7	*EPC Solenoid (PWM)*	*2.4 - 7.3*

NOTE: Gnd. = Ground Ohm Meter to the Case

Transaxle Temperature Sensor Resistance Chart Terminals 4 and 5
0°C (32°F) = 83.2k - 107k Ohms
20°C (70°F) = 33.5k - 41.2k Ohms
40°C (104°F) = 14.6k - 17.6k Ohms
60°C (140°F) = 7.08k - 8.01k Ohms
80°C (176°F) = 3.61k - 4.06k Ohms
100°C (212°F) = 1.96k - 2.20k Ohms
120°C (248°F) = 1.13k - 1.25k Ohms
130°C (266°F) = 0.87k - 0.96k Ohms

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Figure 3