FORD 5R55S
P0713/VARIOUS SOLENOID FAULTS/TCC CYCLING

COMPLAINT: 2006-2010 model Ford Explorer and Mountaineer built on or before 8/12/2009 may exhibit a complaint of a check engine light with diagnostic trouble codes of P0713 Transmission Fluid temperature sensor fault or various other solenoid circuit faults. These model vehicles may also have a complaint of a surging condition or TCC cycling problem. In addition, these vehicles may have a complaint of a no up- shift after passing gear while in cruise control, more noticeable when hot.

CAUSE: The cause may be:

1. The multiple trouble codes being stored may be caused by water intrusion into the case connector by the A/C vent dripping water over the top of the connector.
2. The surging condition and TCC cycling as well as the no up-shift after passing gear in cruise control may be caused by a software update.

CORRECTION: To correct this condition:

1. Refer to Figure 1 and remove the case connector bolt and inspect the connector for moisture. If moisture is found, clean the connector with a contact cleaner and apply some dielectric grease into the connector and re-install it. To prevent this problem from occurring again purchase the "Patch kit" shown in service information and install it like shown in Figure 1. If the codes re-appear, refer to Figure 2 and verify that the solenoid ohm values are correct, replace the solenoid pack as necessary.
2. The surging complaint has been resolved by a PCM calibration change. Calibration release B43.16 and higher or B44.8 and higher can be obtained thru the OEM website. For further information refer to Ford TSB 06-17-13.

SERVICE INFORMATION:

PATCH KIT (Ford part number).....F65Z-9240-DC

FORD 5R55S HARNESS CONNECTOR REPAIR

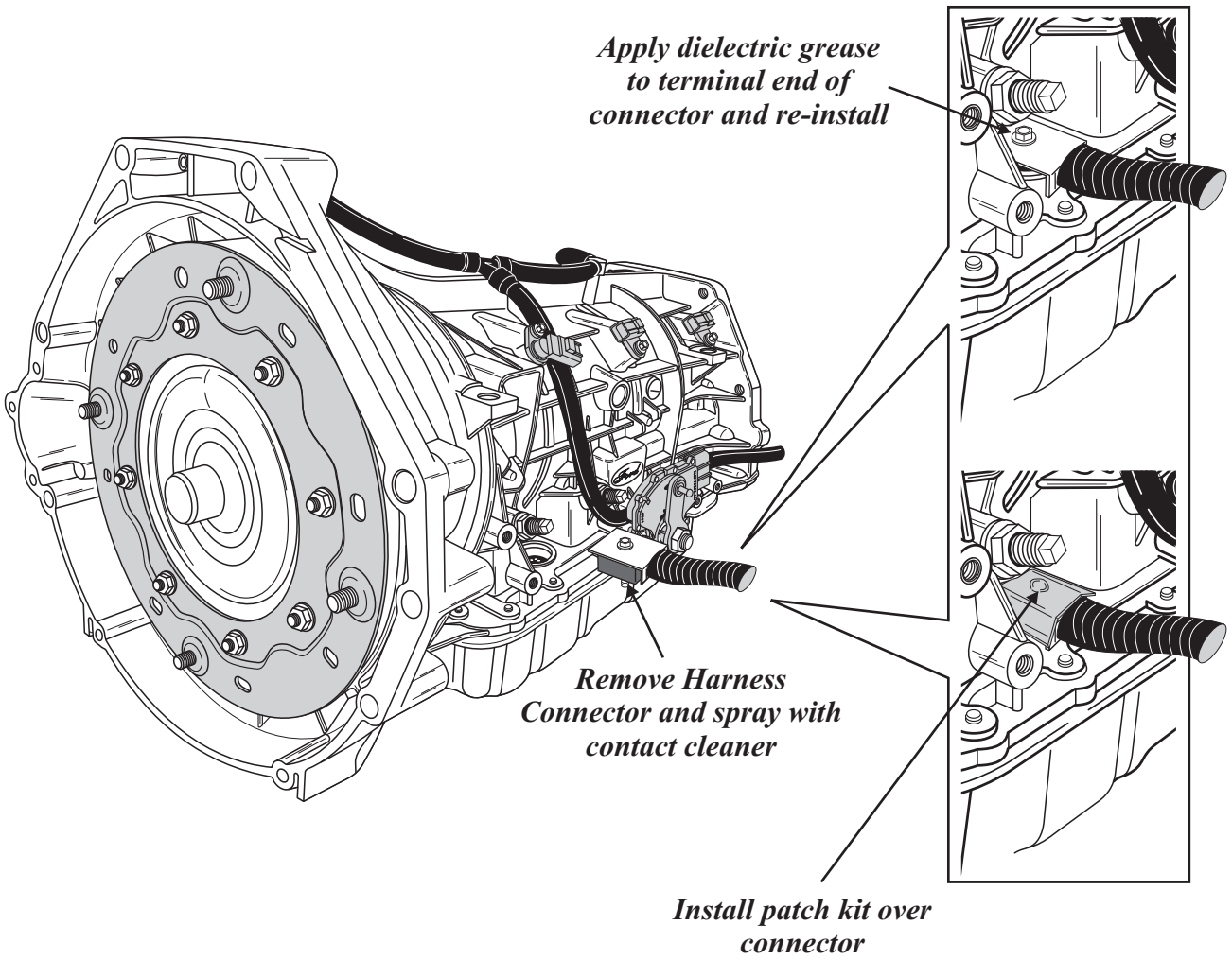
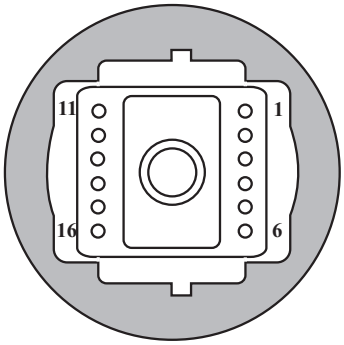


Figure 1

CASE CONNECTOR PIN IDENTIFICATION AND RESISTANCE CHARTS

Transmission

Case Connector



Solenoid Resistance Chart		
Component	*Connector Terminals*	*Resistance In Ohms*
Shift Solenoid "A"	*3 And 16*	*16-45*
Shift Solenoid "B"	*3 And 15*	*16-45*
Shift Solenoid "C"	*3 And 6*	*16-45*
Shift Solenoid "D"	*3 And 5*	*16-45*
Pressure Control Solenoid "A"	*3 And 11*	*3.3-7.5*
Pressure Control Solenoid "B"	*3 And 1*	*3.3-7.5*
Pressure Control Solenoid "C"	*3 And 4*	*3.3-7.5*
TCC Solenoid	*3 And 14*	*9-16*
TOT Sensor	*2 And 12*	*See Chart*

TFT Sensor Resistance Chart
0°F-31°F = 284k - 100k Ohms
32°F-68°F = 100k - 37k Ohms
69°F-104°F = 37k - 16k Ohms
105°F-158°F = 16k - 5k Ohms
159°F-194°F = 5k - 2.7k Ohms
195°F-230°F = 2.7k - 1.5k Ohms
231°F-266°F = 1.5k - 0.8k Ohms
267°F-302°F = 0.8k - 0.54k Ohms

Figure 2