



CHRYSLER/DODGE NAG1 SOLENOID CIRCUIT FAULTS/CASE CONNECTOR LEAK

COMPLAINT: Some 2004 and up Chrysler/Dodge vehicles equipped with the NAG 1 transmission may exhibit a symptom of intermittent Solenoid Circuit Fault Codes along with a leak at the case connector area of the transmission as shown in Figure 1.

CAUSE: The cause may be, faulty "O"-rings on the adapter sleeve allowing the transmission fluid to cause connection problems, and setting the intermittent trouble codes.

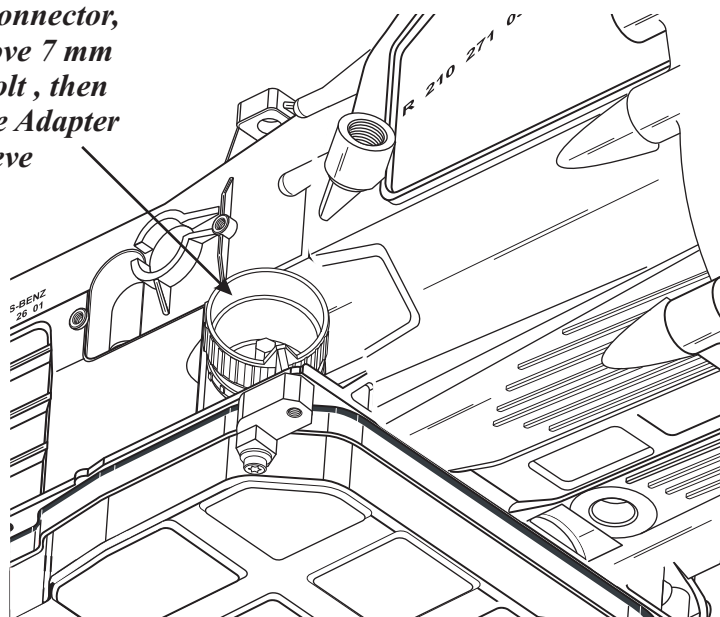
CORRECTION: Replace the adapter sleeve and connector, shown in Figure 2, with the updated part number listed in service information. Verify that all solenoids ohm test correctly as shown in the chart in Figure 2. Refer to Figure 3 for the location of the solenoids on top of the valve body, replace as necessary.

CORRECTION: ADAPTER SLEEVE AND CONNECTOR KIT.....68021352AA
(Includes connector 5120265AA)

Note: This connector is also available at many aftermarket suppliers individually as well.

ADAPTER SLEEVE LOCATION

*Remove Connector,
then remove 7 mm
headed bolt, then
remove the Adapter
Sleeve*



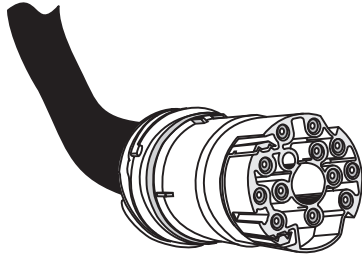
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Figure 1

CHRYSLER/DODGE NAG1 SOLENOID CIRCUIT FAULTS/CASE CONNECTOR LEAK

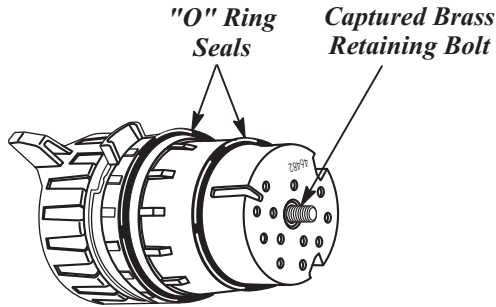
CASE CONNECTOR IDENTIFICATION

To TCM



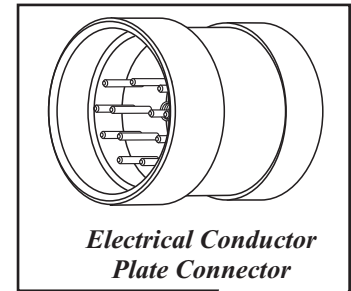
Vehicle Harness
Connector

5120265AA



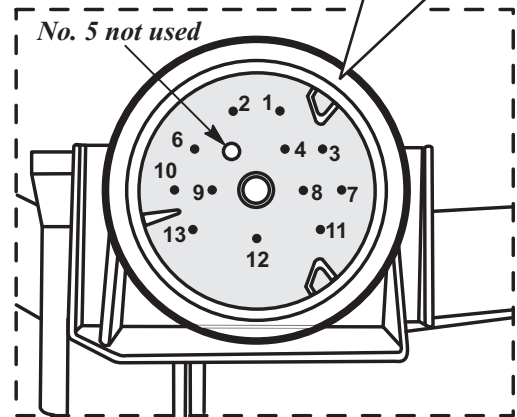
Adapter Sleeve

68021352AA



Electrical Conductor
Plate Connector

Pin	Function
1	N3 Input Speed Sensor Signal
2	Modulation Pressure Control Solenoid Ground Control
3	N2 Input Speed Sensor Signal
4	TFT Sensor and P/N Switch Signal
5	Not Used
6	Battery Supply Voltage For All Solenoids
7	Sensor 5V Supply Voltage
8	2-3 Shift Solenoid Ground Control
9	3-4 Shift Solenoid Ground Control
10	Shift Pressure Control Solenoid Ground Control
11	TCC Solenoid Ground Control
12	Sensor Ground
13	1-2/4-5 Shift Solenoid Ground Control



Electrical Conductor
Plate Connector
(Face View)

SOLENOID OHMS TEST AT THE TCM OR CASE CONNECTOR

Component	Electrical Conductor Plate Term No's.	Resistance Specification
1-2/4-5 Shift Solenoid	6 & 13	2.5 - 6.5 Ohms
3-4 Shift Solenoid	6 & 9	2.5 - 6.5 Ohms
2-3 Shift Solenoid	6 & 8	2.5 - 6.5 Ohms
TCC (PWM) Solenoid	6 & 11	2.0 - 4.0 Ohms
Modulation Pressure Control (MPC) Solenoid	6 & 2	2.5 - 6.5 Ohms
Shift Pressure Control (SPC) Solenoid	6 & 10	2.5 - 6.5 Ohms
TFT Sensor	4 & 7	957 Ohms at room temp.

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Figure 2

CHRYSLER/DODGE NAG1 SOLENOID CIRCUIT FAULTS/CASE CONNECTOR LEAK

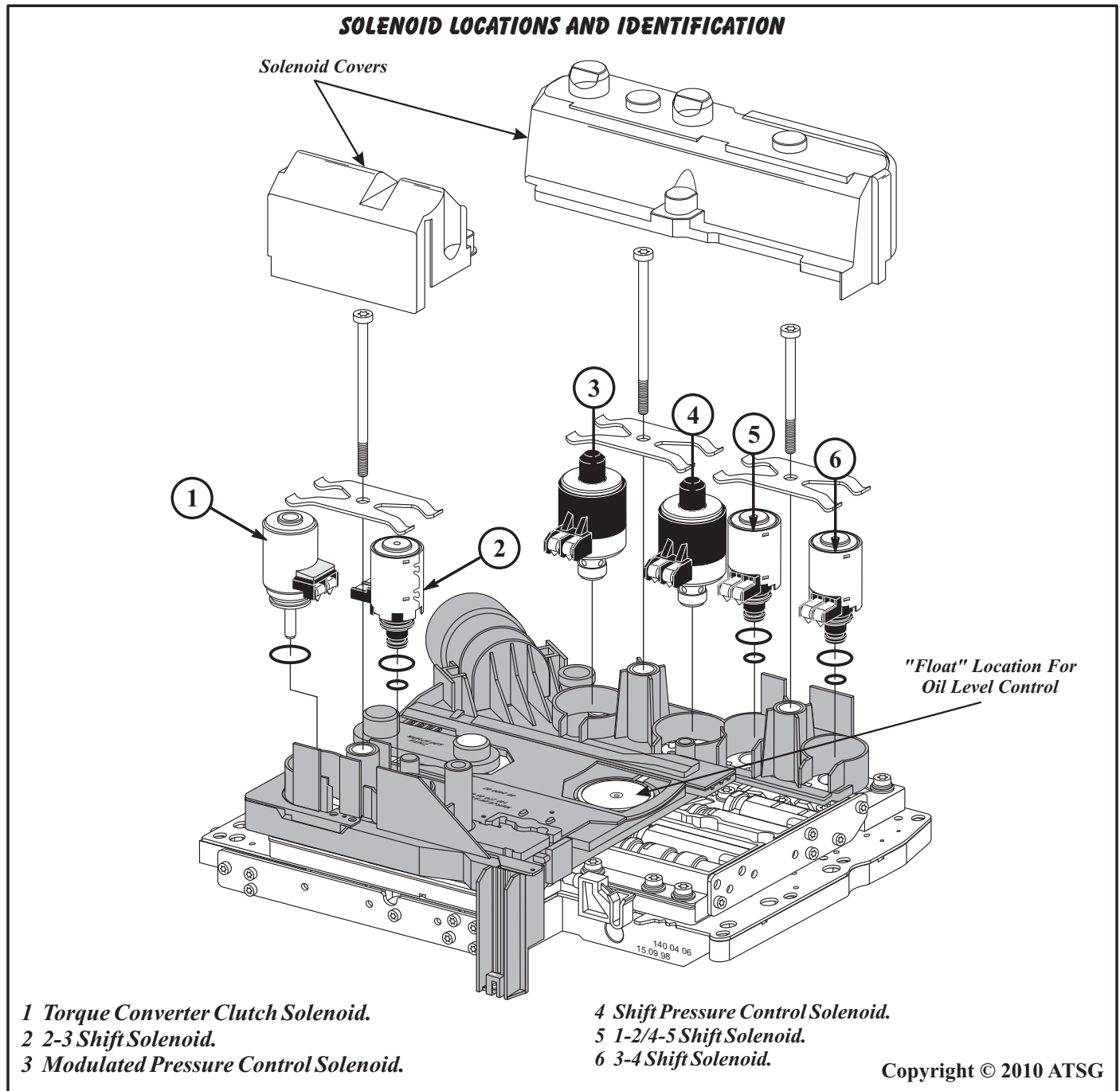


Figure 3