



NISSAN RE5R05A TORQUE CONVERTER CLUTCH SHUDDER AND/OR INTERMITTENT SOLENOID/PRESSURE SWITCH CIRCUIT FAULTS

COMPLAINT: Late 04 and up Nissan vehicles equipped with the RE5R05A transmission may exhibit a complaint of Torque Converter Clutch Shudder along with intermittent solenoid circuit and or pressure switch faults, which may cause a limp mode condition. See Figure 1 for a list of possible codes.

CAUSE: The cause may be, that the transmission cooler in the radiator has ruptured causing water to be mixed into the transmission fluid. This can cause the Torque Converter Clutch linings to delaminate, causing the TCC shudder. This same cause may create the intermittent solenoid circuit or pressure switch faults as well, by means of the water intrusion into the Transmission Control Module, which is mounted on top of the Valve Body as shown in Figures 2 and 3.

CORRECTION: To correct this condition, the transmission will need to be overhauled as well as the Torque Converter. Refer to Figure 3 for solenoid location and ohm values. If there is a solenoid circuit fault for a specific solenoid, locate it in Figure 3 and verify the ohm value is correct. If the ohm value is correct, the TCM may be faulty and will have to be replaced. Refer to Figure 2 and note that the pressure switches are part of the TCM and can not be tested, without the use of a scan tool. *Note: There may be instances where the vehicle will come into the shop and there will be NO solenoid circuit faults and the transmission will have water intrusion. The vehicle could leave the shop for a month and everything be fine, and all of a sudden start setting solenoid circuit faults. Refer to Figure 3 and verify the solenoid in question has the correct ohm value at that point if it is good the TCM will have to be replaced. Make sure the customer is aware that the TCM may go bad if there was water intrusion, and an additional cost may be necessary down the road.*

SERVICE INFORMATION:

Contact your local Nissan Dealer, as the TCM does not come separate than the Valve Body.

| DIAGNOSTIC TROUBLE CODE (DTC) DESCRIPTION | | |
|---|--------|---|
| TCM DTC | OBD II | DESCRIPTION |
| P0700 | P0700 | MIL Request, Transmission related trouble code set |
| P0740 | P0740 | Torque Converter Clutch Solenoid Circuit |
| P0745 | P0745 | Line Pressure Solenoid Circuit |
| PI731 | | First Gear Engine Braking (Fluid Pressure Switch 2 fault) |
| PI752 | PI752 | Input Clutch Solenoid Circuit |
| PI757 | PI757 | Front Brake Band Solenoid Circuit |
| PI762 | PI762 | Direct Clutch Solenoid Circuit |
| PI767 | PI767 | High And Low/Reverse Clutch Solenoid Circuit |
| PI772 | PI772 | Low Coast Brake Clutch Solenoid Circuit |
| PI841 | | Fluid Pressure Switch 1 Circuit |
| PI843 | | Fluid Pressure Switch 3 Circuit |
| PI845 | | Fluid Pressure Switch 5 Circuit |
| PI846 | | Fluid Pressure Switch 6 Circuit |

Figure 1

NISSAN RE5R05A TORQUE CONVERTER CLUTCH SHUDDER AND/OR INTERMITTENT SOLENOID/PRESSURE SWITCH CIRCUIT FAULTS

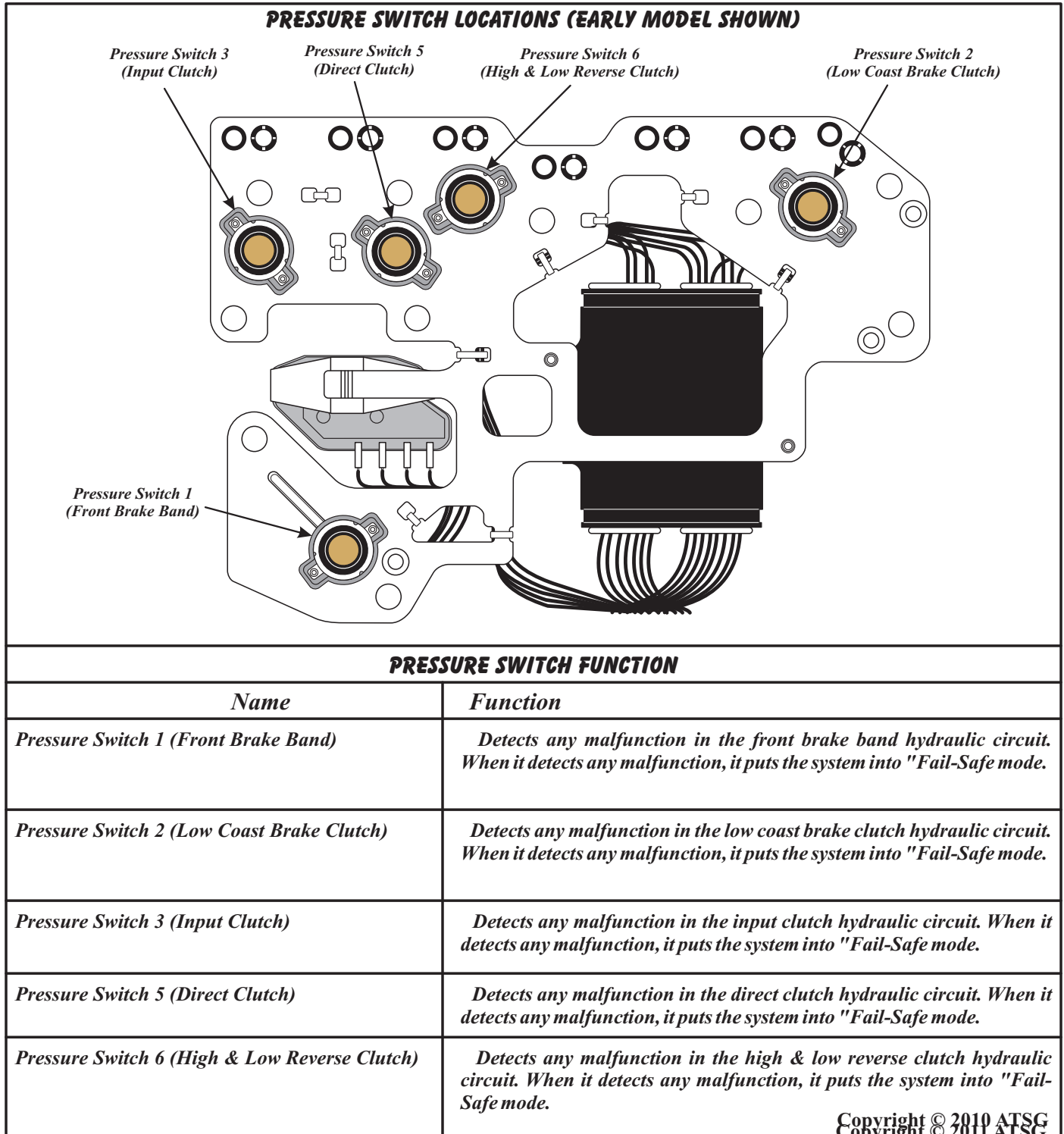
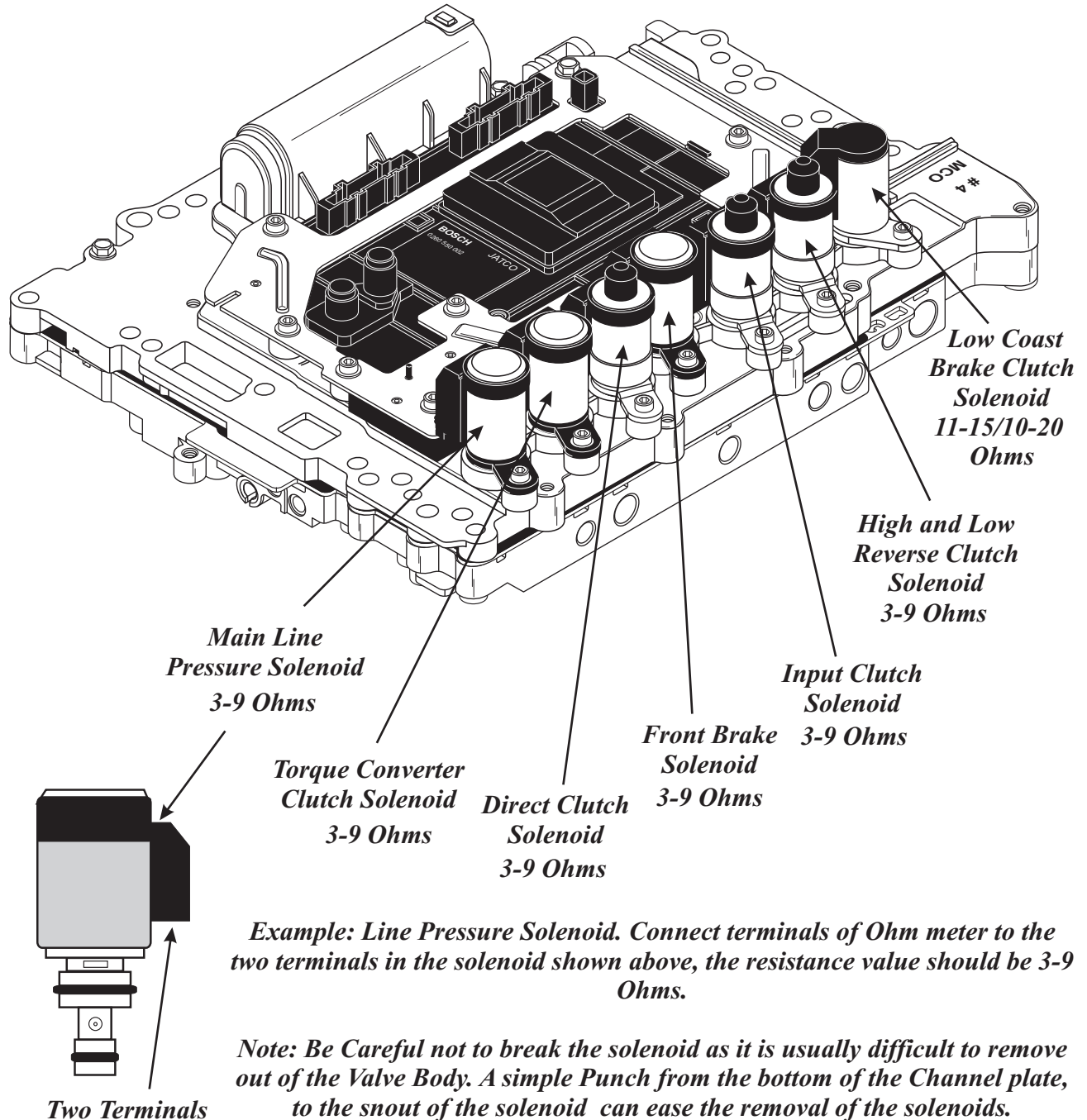


Figure 2

NISSAN RE5R05A TORQUE CONVERTER CLUTCH SHUDDER AND/OR INTERMITTENT SOLENOID/PRESSURE SWITCH CIRCUIT FAULTS

NISSAN RE5R05A SOLENOID LOCATIONS AND OHM VALUES



Copyright © 2010 ATSG

Figure 3