



# Technical Service Information

## NISSAN RE5R05A TCM FUSE BLOWS

**COMPLAINT:** Late 04 and up Nissan vehicles equipped with the RE5R05A transmission may exhibit a complaint of a Transmission Control Module fuse that blows continuously after overhaul or TCM/valve body replacement. When the fuse is blown the TCM is inoperable. No communication to the computer can occur with a scanner to acquire codes and the transmission will be stuck in 4th gear.

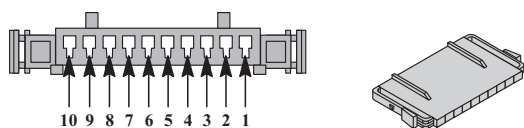
**CAUSE:** The cause may be that connector F-502 was cross-connected with F-505. When this happens, terminal 10 in the F-502 will be connected to vehicle speed sensor ground circuit causing the fuse to blow. See figure 1 for a face view of the F-502 and F-505 connectors

**CORRECTION:** To correct this condition, refer to figure 2 to locate the F-502 connector, which is connected to internal harness 1 that leads to the green F-9 connector, which is connected the Transmission Control Module. Connector F-505 connects to internal harness 2, which connects to the Park/Neutral position switch. **Note:** both of these connectors are gray and have the exact same configuration so cross-connecting them is very easy. Refer to figure 3 for connector I.D. and configuration. Refer to Figure 4 for a wire schematic of the TCM, internal harness 1 and 2 and the case connector.

**Special Note:** In the 2008 Seminar we provided information on Solenoid Identification that was unfortunately incorrect, please refer to figure 5 for the correct solenoid locations for the RE5R05A.

### F-502 AND F-505 CONNECTORS

*Internal TCM Harness  
"Female" Coupler Face View  
Connector Number F-502 (Gray)*



*Internal Park/Neutral Position Switch Harness  
"Female" Coupler Face View  
Connector Number F-505 (Gray)*

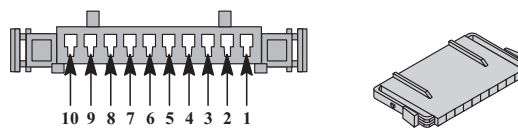
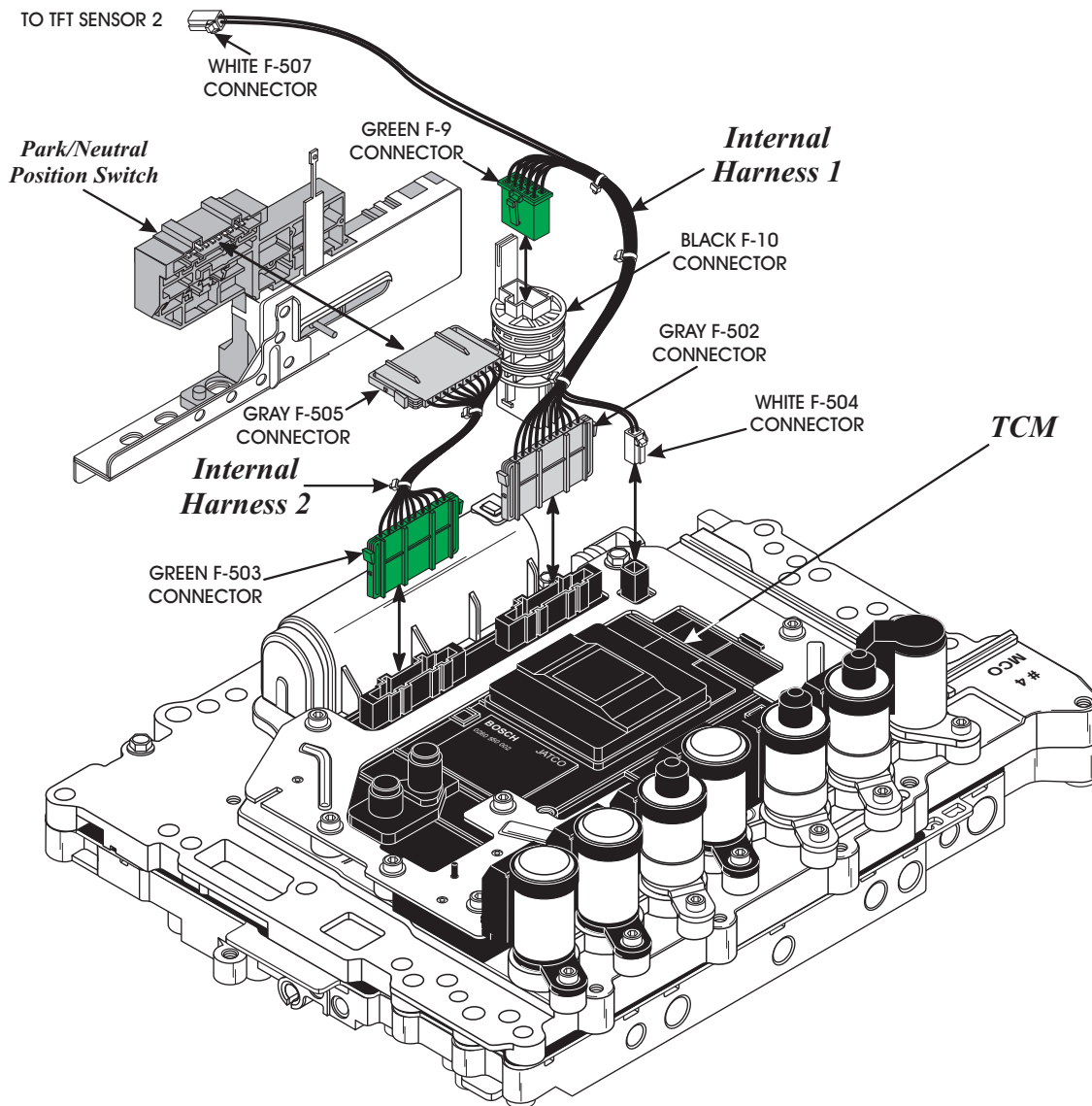


Figure 1

## NISSAN RE5R05A WITH INTERNAL TCM

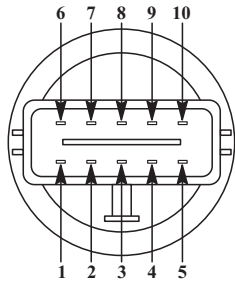
- Internal Harness 1**
- 10 pin "Gray" connector to TCM.
  - 2 pin "White" connector to TCM.
  - 10 pin "Green" connector to pass-thru case connector.
  - 2 pin "White" connector to TFT Sensor 2 connector.
- Internal Harness 2**
- 10 pin "Gray" connector to Park/Neutral Position Switch.
  - 10 pin "Green" connector to TCM.



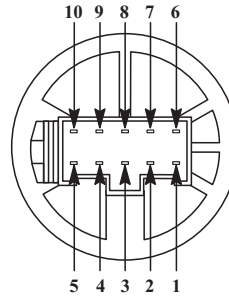
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Figure 2

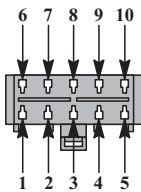
## NISSAN RE5R05A CONNECTOR AND TERMINAL IDENTIFICATION



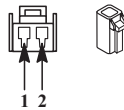
**External Transmission Connector**  
**"Top Side" Face View**  
**Connector Number F-10 (Black)**



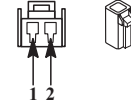
**External Transmission Connector**  
**"Bottom Side" Face View**  
**Connector Number F-10 (Black)**



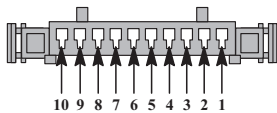
**Internal Transmission Harness**  
**"Female" Coupler Face View**  
**Connector Number F-9 (Green)**



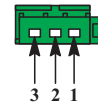
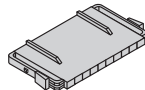
**Internal TFT Harness**  
**"Female" Coupler Face View**  
**Connector Number F-507 (White)**



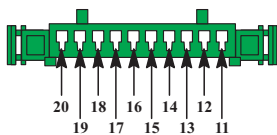
**Internal TCM Harness**  
**"Female" Coupler Face View**  
**Connector Number F-504 (White)**



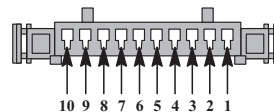
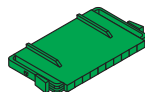
**Internal TCM Harness**  
**"Female" Coupler Face View**  
**Connector Number F-502 (Gray)**



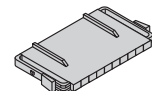
**Internal Revolution/Output Sensor Harness**  
**"Female" Coupler Face View**  
**Connector Number F-506 (Green)**



**Internal TCM Harness**  
**"Female" Coupler Face View**  
**Connector Number F-503 (Green)**



**Internal Park/Neutral Position Switch Harness**  
**"Female" Coupler Face View**  
**Connector Number F-505 (Gray)**



## RE5R05A PARTIAL WIRE SCHEMATIC

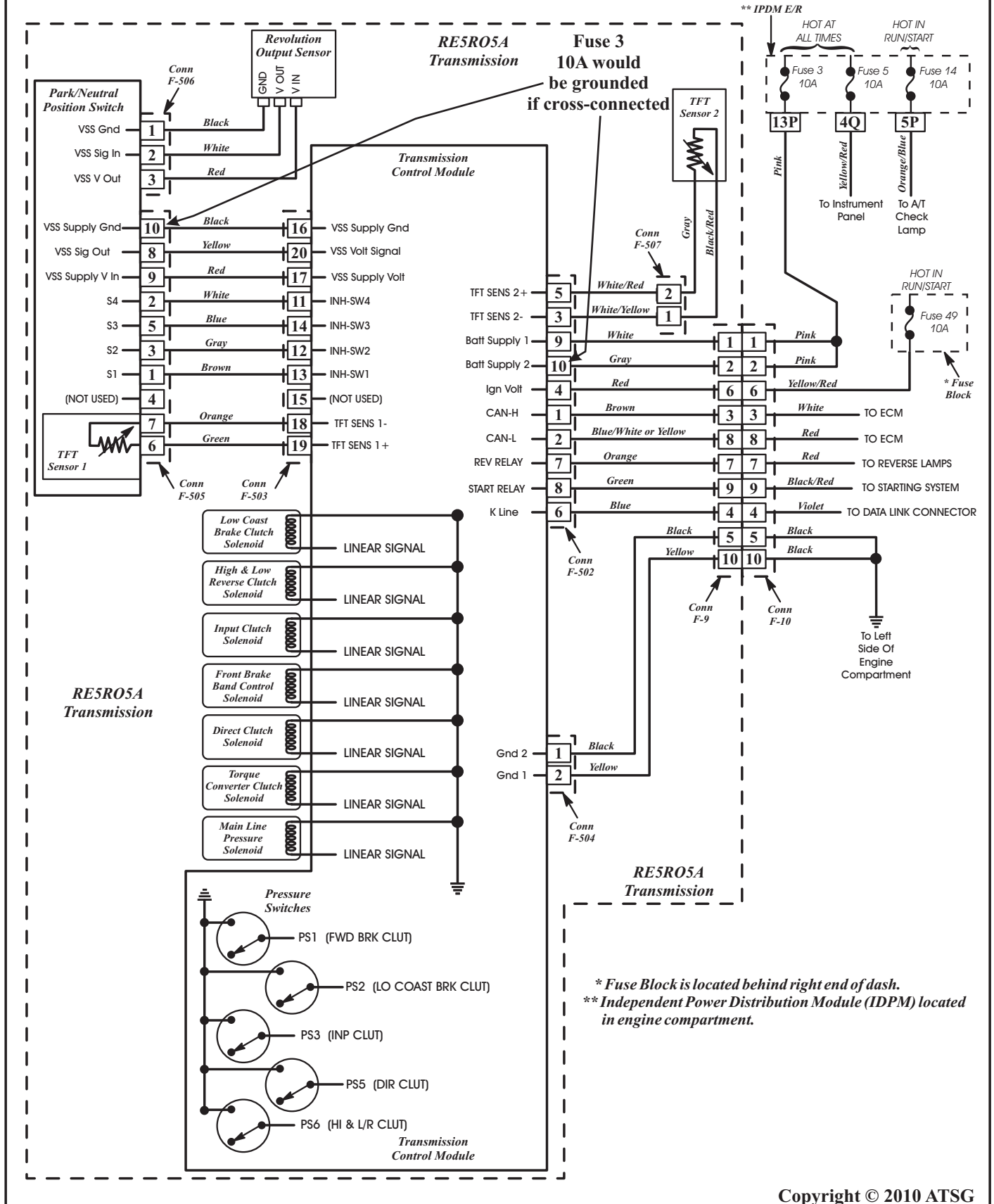


Figure 4

## NISSAN RE5R05A SOLENOID LOCATIONS

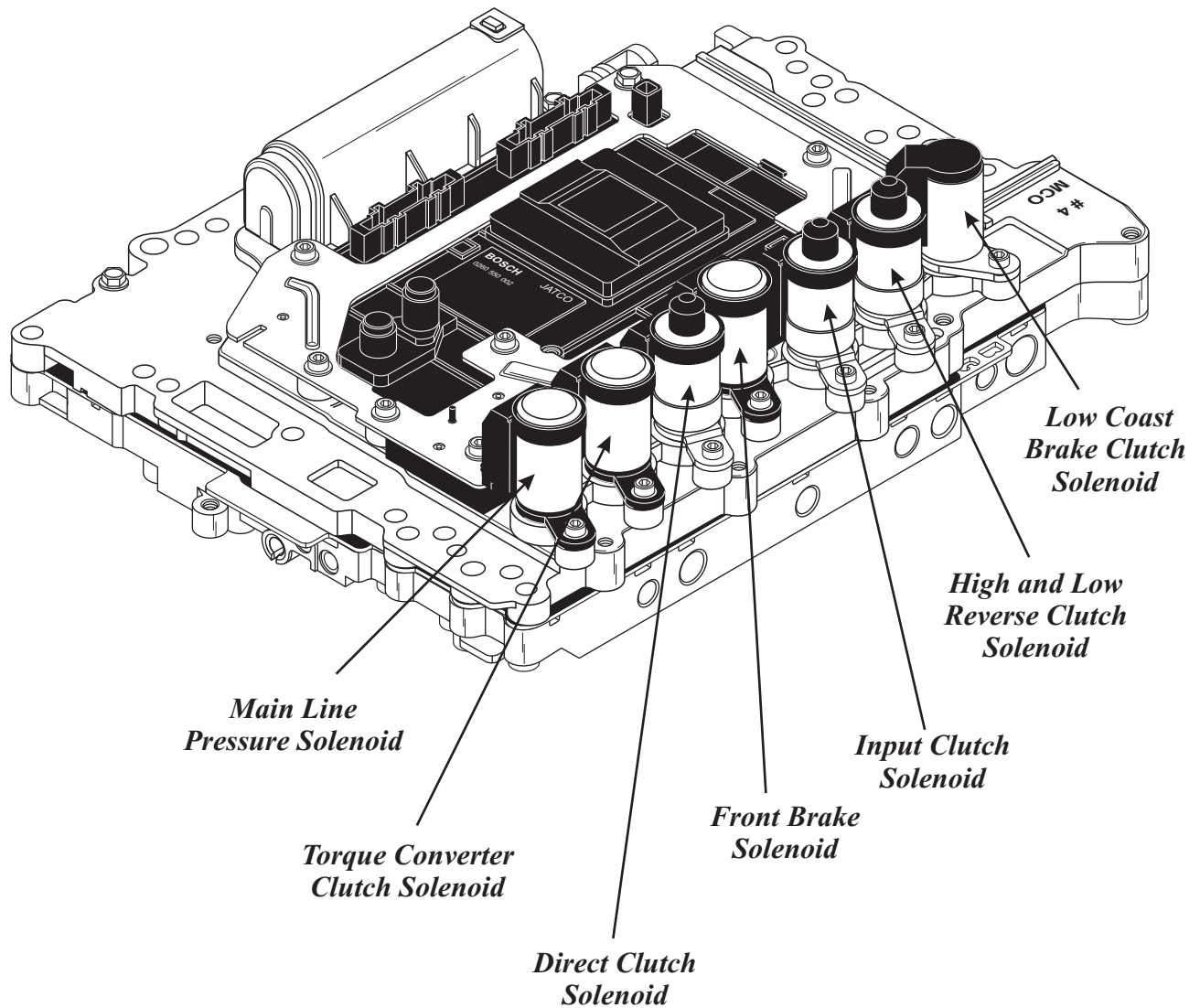


Figure 5

*A special thanks to the good folks at Raybestos for providing to ATSG RE5R05A Valve Bodies.*