



## CHRYSLER TRANSMISSIONS TESTING CONSISTENCY FROM 1989

Chrysler and Dodge vehicles that are equipped with either the 41TE, 42LE, 42RLE, or 45RFE transmissions have a certain degree of consistency when electrically diagnosing solenoid codes, EATX relay codes or input and output shaft speed sensors codes. When looking at the TCM 60 way connector for each of these transmissions, you will observe the following consistency:

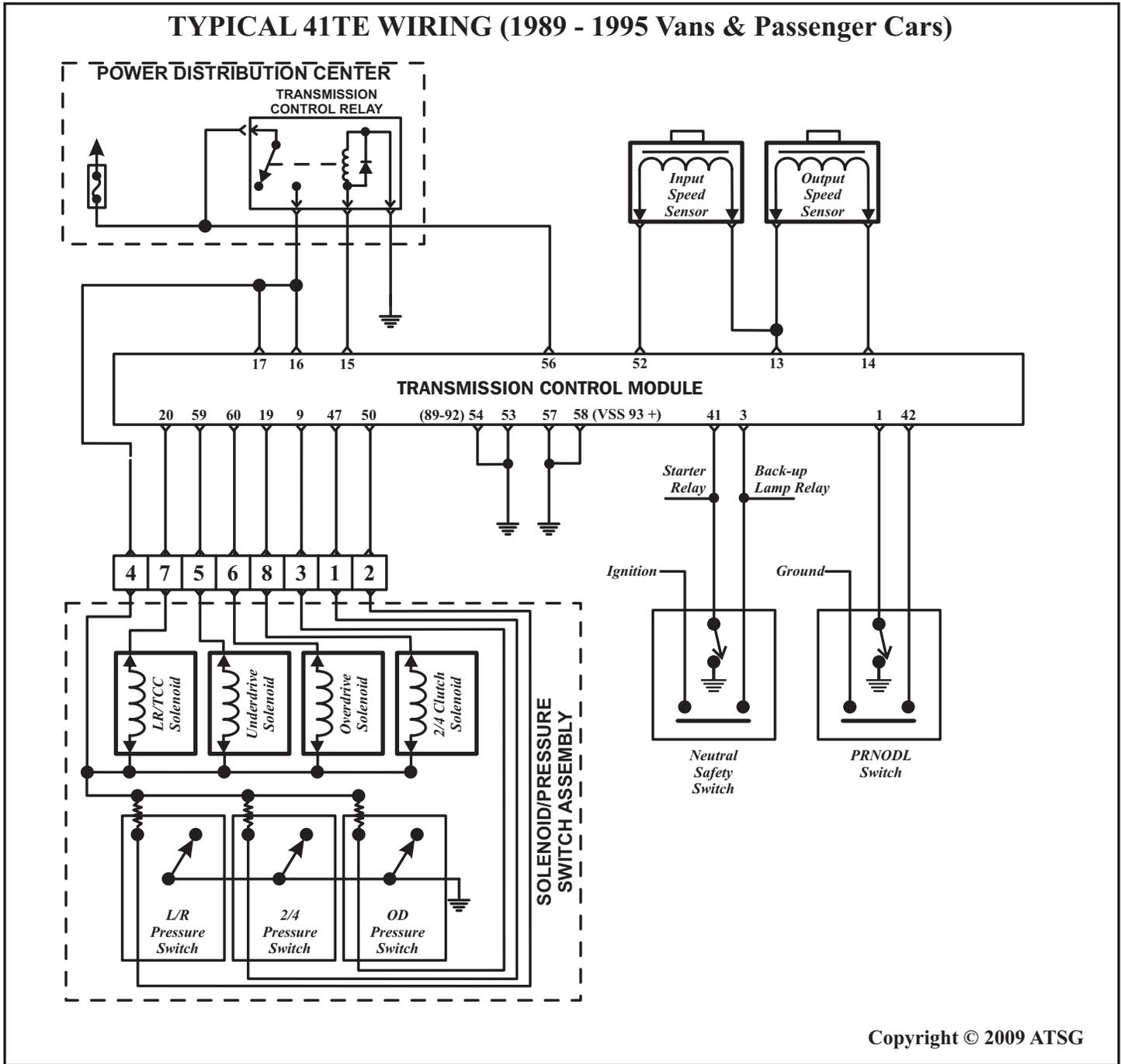
- TCM Terminal # 13 = Speed Sensor Ground
- TCM Terminal # 14 = Output Speed Sensor Signal
- TCM Terminal # 52 = Input Speed Sensor Signal
- TCM Terminal # 15 = EATX Relay Control
- TCM Terminal # 16 = EATX Relay Signal
- TCM Terminal # 17 = EATX Relay Signal
- TCM Terminal # 19 = 2/4 Solenoid (*except 45RFE*)
- TCM Terminal # 20 = L/R Solenoid
- TCM Terminal # 59 = UD Solenoid (*except 45RFE*)
- TCM Terminal # 60 = OD Solenoid

By becoming familiar with the typical wiring diagrams provided in figures 2 through 6 and memorizing the terminals listed above, quick testing at the 60 way connector can be performed for a large number of vehicles spanning a period of 15 years without ever having to pull a wiring diagram such as the example given in Figure 1. The 45RFE has additional solenoids which caused a variation among the other three transmissions but as you can see two of the solenoids remained consistent. Quick testing can be done with all four of the transmissions with the Input and Output Speed sensors. Factory repair manuals provide a 300 to 1200 ohm value for these sensors but it has been ATSG's experience that they measure 500 to 600 ohms. Relay circuit testing is also the same with a slight exception for the 45RFE as there is one additional signal circuit at terminal 36.

POSITIVE LEAD	NEGATIVE LEAD	SOLENOID	RESISTANCE
PIN # 16 or 17	PIN # 59	UD	1.5 - 2.0 ohms
PIN # 16 or 17	PIN # 60	OD	1.5 - 2.0 ohms
PIN # 16 or 17	PIN # 20	L/R	1.5 - 2.0 ohms
PIN # 16 or 17	PIN # 19	2/4	1.5 - 2.0 ohms

Figure 1

## TYPICAL 41TE WIRING (1989 - 1995 Vans & Passenger Cars)



Copyright © 2009 ATSG

Figure 2

## TYPICAL 41TE WIRING (96 and up Vans & Passenger Cars)

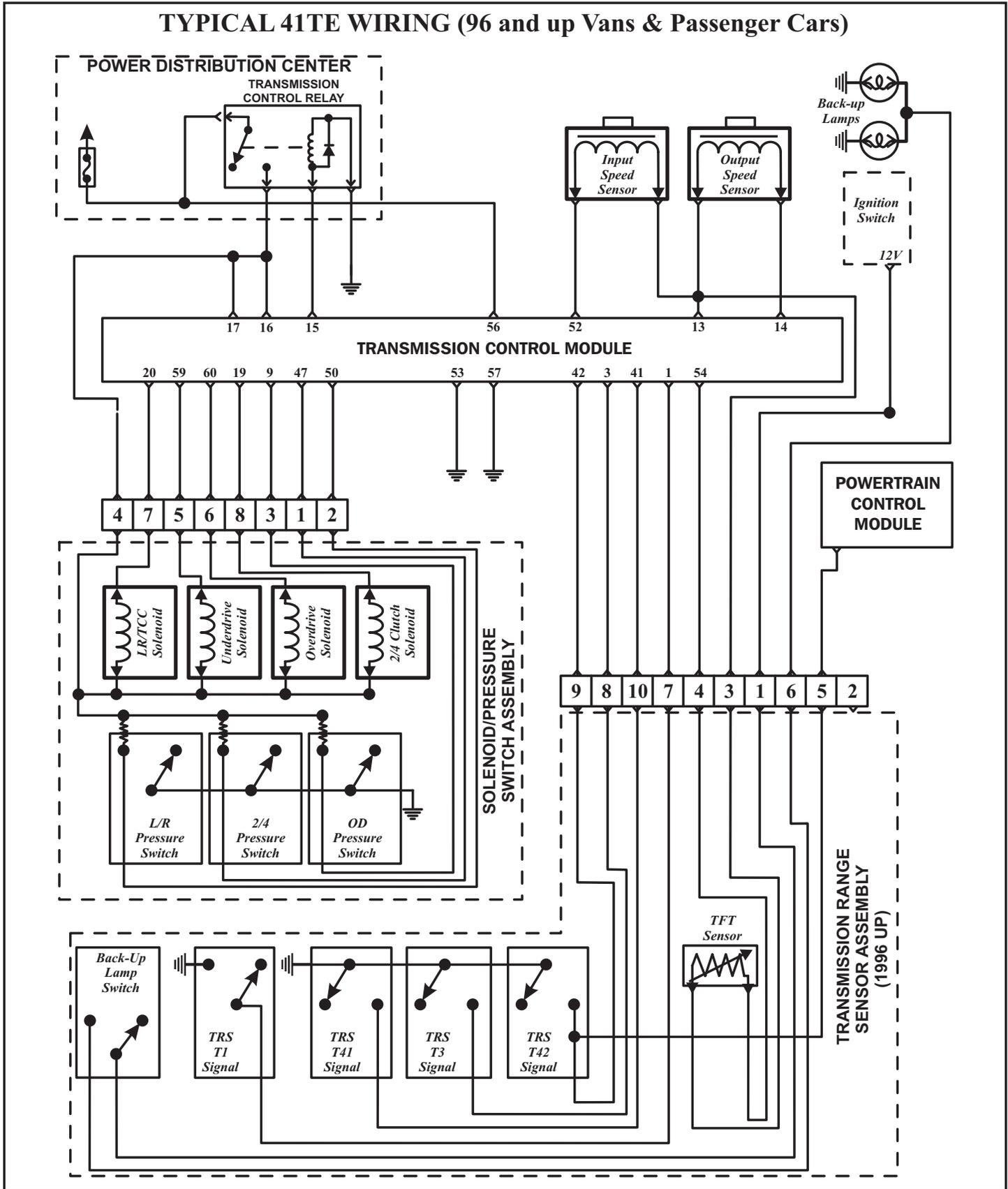


Figure 3

Copyright © 2009 ATSG

## TYPICAL 42LE WIRING (LH Vehicles)

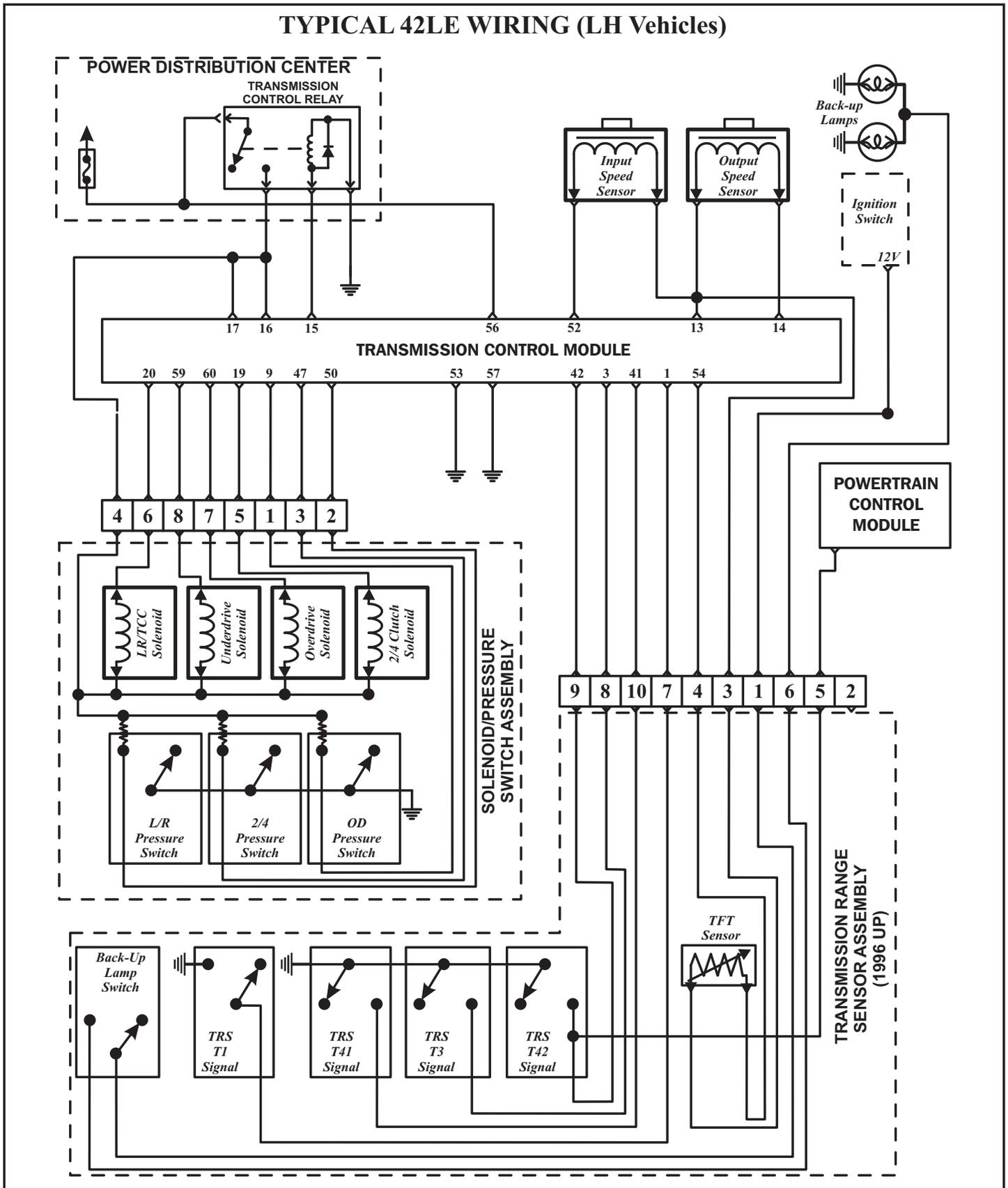


Figure 4

Copyright © 2009 ATSG

## TYPICAL 42RLE WIRING (Liberty, 300)

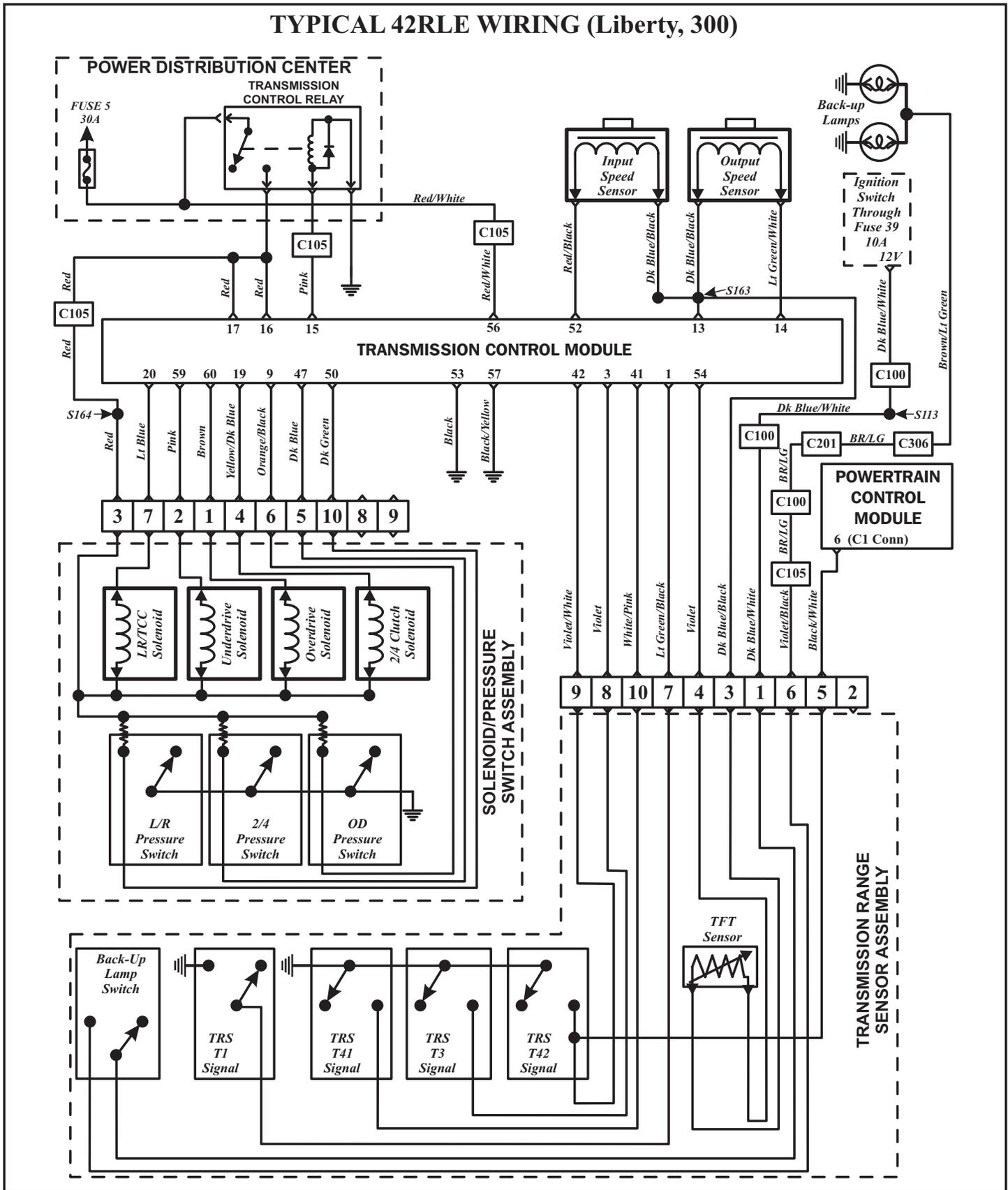


Figure 5

Copyright © 2009 ATSG



# Technical Service Information

## TYPICAL 45RFE WIRING (Durango, Ram 3500)

