



1996 & LATER DODGE/CHRYSLER VEHICLES WITH 41TE/42LE TRANSAXLES PRND3L LIGHTS MALFUNCTION

COMPLAINT: All PRND3L lights illuminated in Park and Neutral while vehicle is running. PRND3L lights illuminate correctly in the Reverse, Overdrive, Drive and Low detents. Scanner will not communicate with transmission control module in Park or Neutral, will only communicate in the Reverse, Overdrive Drive, Drive and Low detents only. Vehicle may start normally depending upon model year and there are no codes present. Scan tool unable to perform Quick Learn procedure. Transmission shifts normal and there may not be any engine related problems.

CAUSE: Malfunctioning ignition switch causing a continuous 12 volts present on pin 8 of the TCM while the engine is running (shown in figure 1). Battery voltage on pin 8 should only be present with the ignition switch in the crank position. Voltage should drop to zero when ignition key is released back to the run position (figure 2). Some models vehicle start when the key is turned to the "On" position, such as the 2000 Dodge Intrepid with the type of starting circuit as seen in figure 3.

CORRECTION: Replace ignition switch or fix possible short to power.

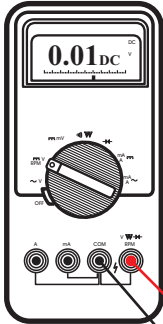
Special thanks to Jim DeShields of DeHawk Transmissions Inc. for all his hard work finding the cause of this problem and sharing it with ATSG.



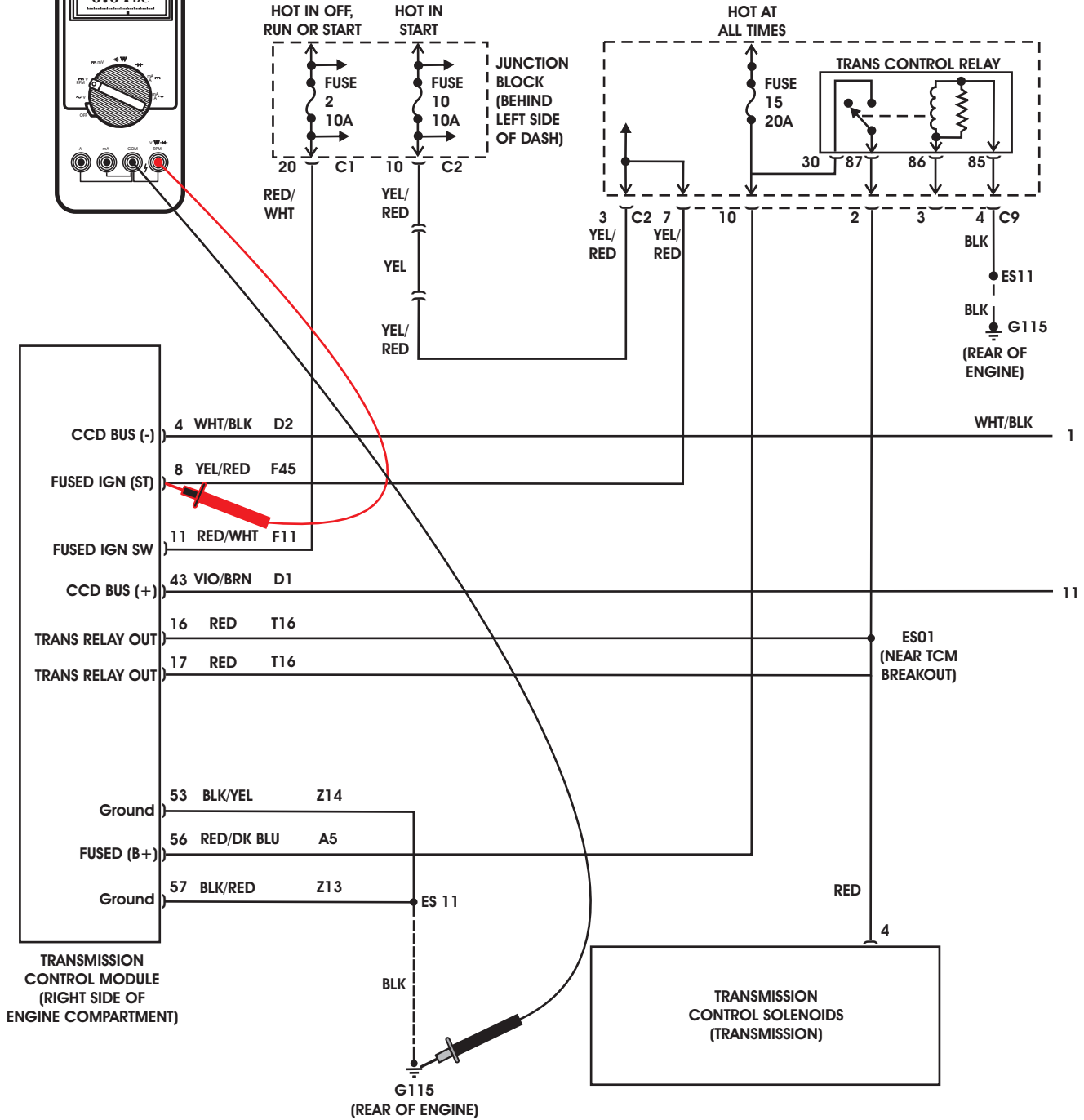
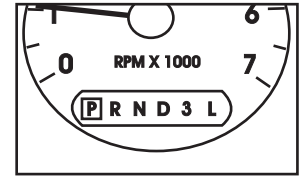
Figure 1

Typical Dodge Caravan Partial Schematic

**KEY ON
ENGINE
RUNNING**



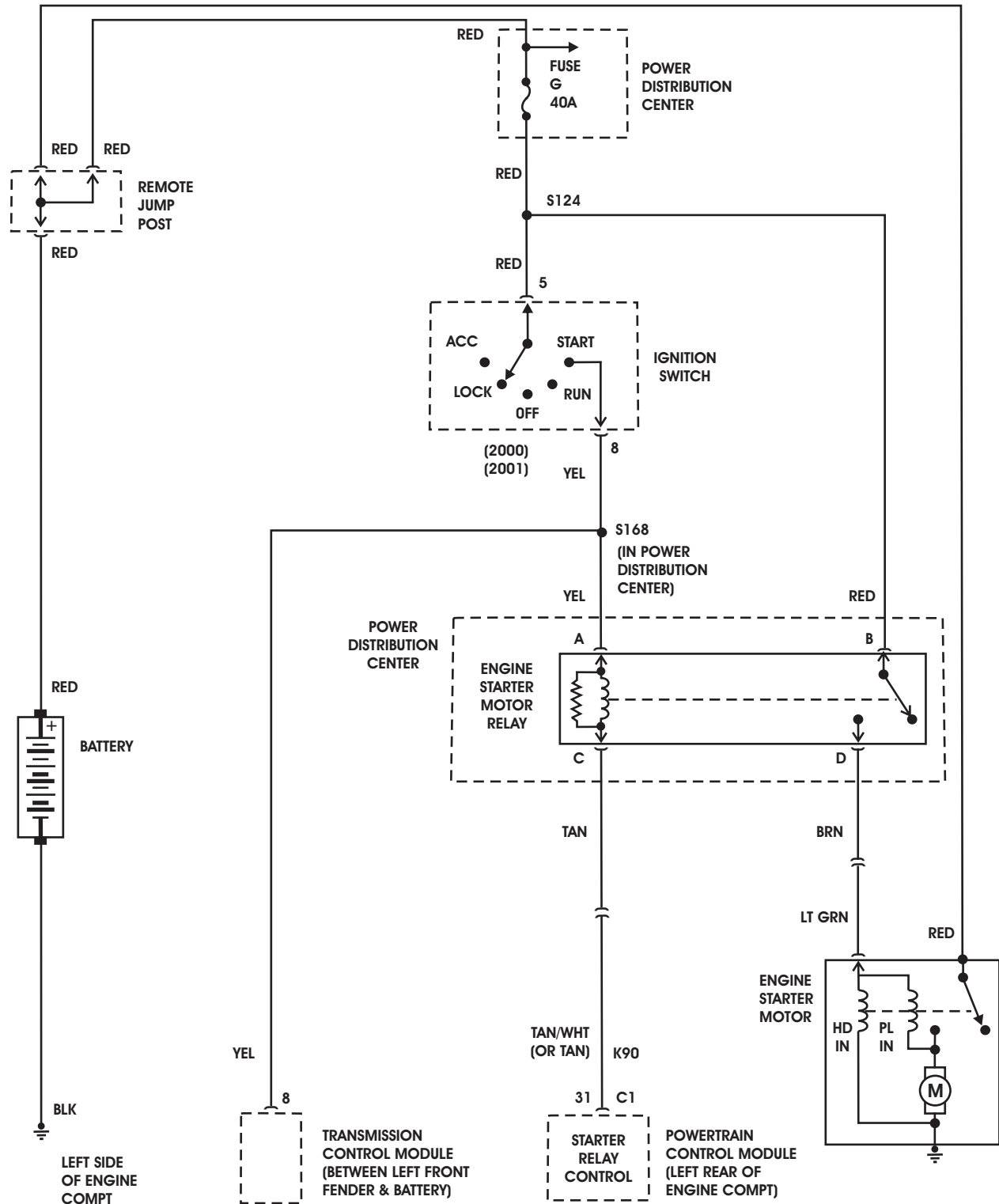
INSTRUMENT
CLUSTER



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Figure 2

2000 Dodge Intrepid Starting Circuit



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Figure 3