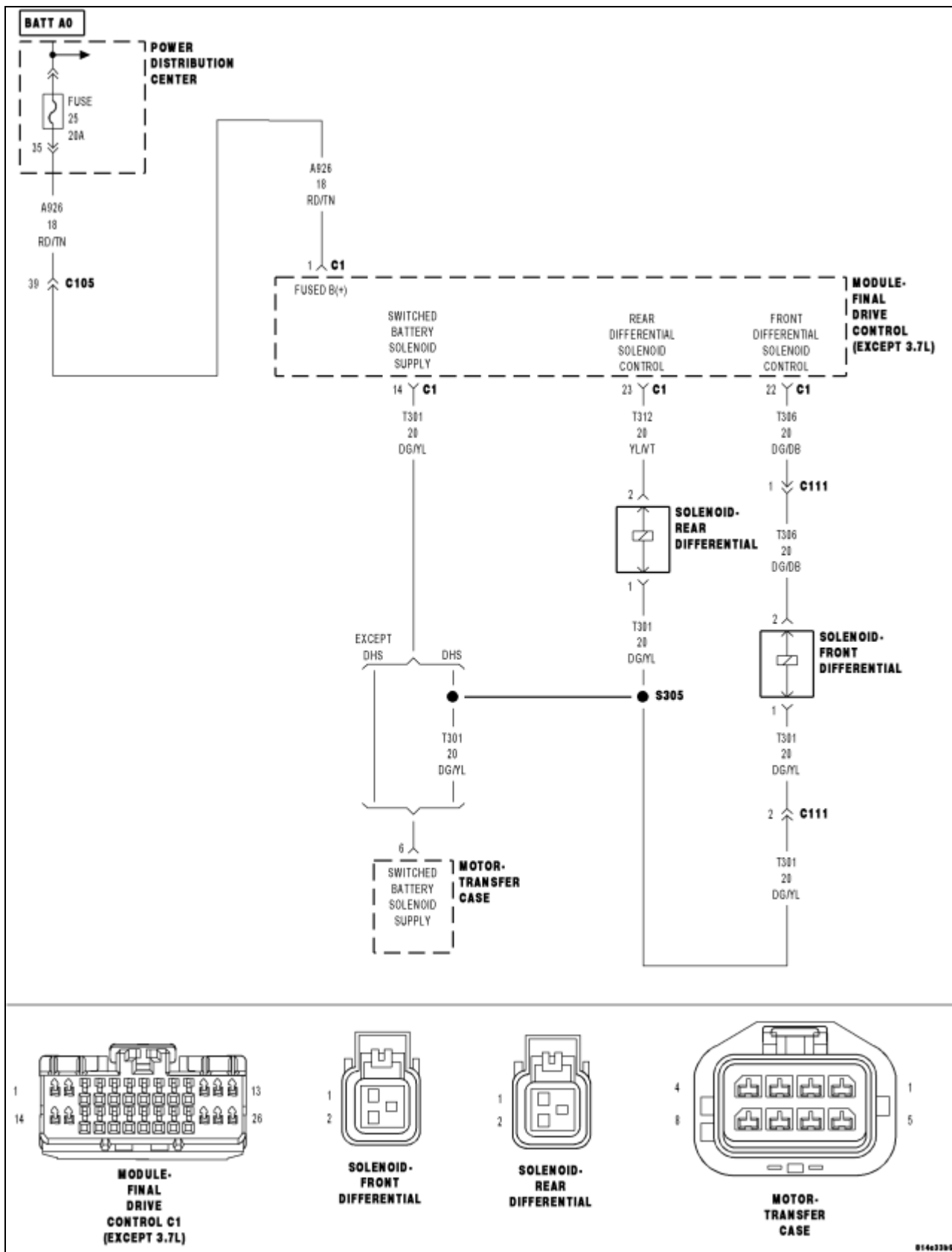


# **C1420-REAR DIFFERENTIAL CONTROL CIRCUIT “CURRENT” PERFORMANCE**



For a complete wiring diagram Refer to Section 8W.

- **When Monitored:**

The ignition on. No Solenoid DTCs present.

- **Set Condition:**

The FDCM detects a current feedback when the solenoid is not active.

Possible Causes
WIRING HARNESS INSPECTION
FDCM

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## Diagnostic Test

### 1. ACTIVE DTC

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**NOTE: You must diagnose any Solenoid circuit (Low or High) DTCs first if set along with this DTC before continuing.**

Ignition on, engine not running.  
With the scan tool, read DTCs.

**Is the DTC active at this time?**

**Yes**

- Go To [2](#)

**No**

- Go To [3](#)

### 2. WIRING HARNESS INSPECTION

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Inspect the wiring harness from both solenoids to the FDCM. Ensure that the harness has routed correctly. Inspect the FDCM harness connector and Differential Solenoid connectors. Ensure the terminals are clean and no damage is present.

**Was the wiring harness and connectors OK?**

**Yes**

- Replace the FDCM in accordance with the Service Manual.
- Perform FDCM VERIFICATION TEST.

**No**

- Repair as necessary.
- Perform FDCM VERIFICATION TEST.
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### **3. INTERMITTENT WIRING AND CONNECTORS**

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The conditions necessary to set this DTC are not present at this time.

Using the schematics as a guide, inspect the wiring and connectors specific to this circuit.

Wiggle test the wiring harness and connectors while checking for shorted and open circuits.

Using the scan tool, monitor the data related to this circuit while performing the wiggle test. Look for the data to change or for the DTC to reset.

**Were there any problems found?**

**Yes**

- Repair as necessary.
- Perform FDCM VERIFICATION TEST.

**No**

- Test Complete.