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# **Service Information Bulletin**

SUBJECT	DATE
SPN 520999/FMI 7 (TCM)	August 2015

### Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0140 DDC-SVC-MAN-0084 DDC-SVC-MAN-0S84	Transmission	SPN 520999/FMI 7 (TCM)	This is a new section.

DiagnosticLink® users: Please update the troubleshooting guides in DiagnosticLink with this newest version. To update the tool troubleshooting guide, open DiagnosticLink and from the Help - Troubleshooting Guides menu, select the appropriate troubleshooting manual, then click Update.



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## 2 SPN 520999/FMI 7 (TCM)

### Check as follows:

1. Connect DiagnosticLink <sup>®</sup> 8.01 or higher; SPN 520970/FMI 7 (Clutch - Unable to Open Fully) may also be present when this fault occurs.



### **WARNING: ENGINE EXHAUST**

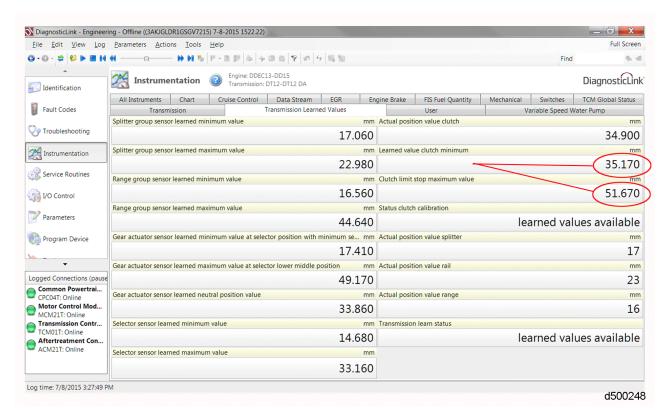
To avoid injury from inhaling engine exhaust, always operate the engine in a well-ventilated area. Engine exhaust is toxic.



#### **WARNING: PERSONAL INJURY**

To avoid injury before starting and running the engine, ensure the vehicle is parked on a level surface, parking brake is set, and the wheels are blocked.

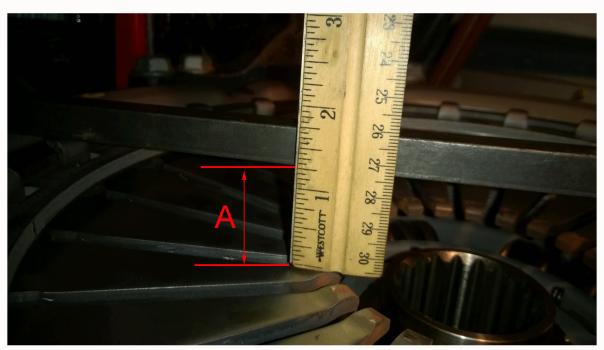
- 2. Start the engine and idle for two minutes.
- 3. Is the transmission air supply pressure greater than (689 kPa)100 psi?
  - a. Yes; Go to step 6.
  - b. No; Go to step 4.
- 4. Turn the ignition OFF.
- 5. Inspect transmission air supply lines and fitting for leaks. Repair as necessary; repeat all steps in this procedure.
- 6. Under the actions menu, select Transmission heading and then choose Clutch Apply Leak Test; execute routine. Does the result indicate a successful completion (test pass)? Note that test may have to be performed three times in order to get a pass result.
  - a. Yes; if fault is inactive, release vehicle. If fault is active, Go to step 7.
  - b. No; Go to step 7.
- 7. Under Instrumentation tab, select Transmission Learned Values. Is instrument Learn Value Clutch Minimum greater than 33 mm or Clutch Maximum greater than 51 mm?



- a. Yes; Go to step 8.
- b. No; obtain a driving log file and contact the Detroit™ Customer Support Center at 855-253-0428 for further assistance.
- 8. Remove the transmission. Refer to section "Removal of the Transmission".
- 9. Keep the pressure plate and clutch disk installed on the engine.
  - **a.** Lay a straightedge (1) on the raised portions on the pressure plate (2).



b. Use a ruler to measure the distance (A) from the straightedge to the contact apex of each release finger.



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- 10. Is the measurement greater than 2.54 cm (1 in.) or pressure plate fingers warped?
  - a. Yes; replace pressure plate, pressure plate mounting bolts and clutch disc. Refer to section "Installation of the Clutch".
  - b. No; replace the Concentric Pneumatic Clutch Actuator (CPCA). Refer to section "Removal of the Clutch Actuator Assembly".