



DODGE & JEEP RWD VEHICLES

TCC CYCLING

COMPLAINT: As the vehicle reaches cruising speed, the lock-up converter clutch begins a steady release and re-application, in other words TCC cycling. Viewing this parameter on the scan tools data list, it is revealed that the computer is commanding this action.

CAUSE: Although a number of causes are shared by both gas and diesel applications, some are unique to each. The following list of causes will indicate which are for both or specific to gas or diesel equipped:

- (1) PCM to sensitive to Noise From APP Sensor (24 Valve Diesel Only).
- (2) PCM to Sensitive to Noise From Alternator (Both).
- (3) Lift Pump Interference (Diesel Only).
- (4) Water In Fuel, warning lamp will be illuminated, (Diesel Only).
- (5) Faulty ECM (Diesel Only).
- (6) Loose or poor ECM Connector (Diesel Only).
- (7) APP Sensor Relearn (24 Valve Diesel Only).
- (8) TPS Cam or Bushings Worn (12 Valve Diesel Only)
- (9) Plastic Throttle Rod Ball Joints Are Worn (12 valve Diesel Only).
- (10) Faulty TPS or TPS Circuit Problems (12 Valve Diesel Only).
- (11) Low Coolant Level (Both)
- (12) A Faulty or Loose Brake Switch (Both).
- (13) Dirty Battery Cables, Especially at the Engine End of the Negative Battery Cable (Both).
- (14) New Battery Cable Ends That are Too Loose on the Post (Both).
- (15) Faulty Spark Plugs or Plug Wires (Gas Only).
- (16) Erratic VSS (Both).
- (17) Faulty Engine Coolant Temperature Sensor (Both)
- (18) Engine Running Too Cool (Both)
- (19) A Faulty Transmission Temperature Sensor (Both).
- (20) A Faulty TCC Solenoid (Both).
- (21) A Faulty Park/Neutral Switch (Both).
- (22) Use of a Generic Scan Tool (Both).
- (23) A Faulty Crankshaft Position Sensor (Gas).

CORRECTION:

- (1) Reflash PCM as Per Factory Bulletin 18-02-99.
- (2) Install Noise Filter In APPS signal Wire to PCM 97-03. Re-ground APPS ground wire to good ground. Wrap Alternator battery voltage supply wire in aluminum foil, Disconnect wire as a test first.
- (3) Relocate Lift Pump farther away from ECM
- (4) Replace Fuel Filter
- (5) Replace Cummins ECM.
- (6) Repair ECM Connector, resize terminal ends.
- (7) APPS/ECM Relearn Procedure: KOEO, Slowly depress throttle pedal to floor and then slowly release it once.
- (8) Replace throttle lever and bushings.
Replace with steel rods PN 5011959AB.



Technical Service Information

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CORRECTION: *continued.....*

- (10) Repair TPS circuits or replace TPS.
- (11) Repair coolant leaks and bring coolant to correct level (Low coolant lamp may be illuminated if so equipped).
- (12) Replace Brake Switch or repair brake switch bracket
- (13) Clean or replace battery cables and polish the negative cables engine attachment point regardless of how good it looks.
- (14) Remove the necessary material to insure cable end fits tightly.
- (15) Replace spark plugs and ignition wires.
- (16) Repair VSS in Differential or ABS computer problem.
- (17) Repair or replace ECT Sensor.
- (18) Replace faulty thermostat.
- (19) Repair TFT Sensor circuits or replace TFT Sensor.
- (20) Replace TCC Solenoid, (Has been known not to store P0743).
- (21) Replace Park/Neutral Switch
- (22) Try a different scan tool.
- (23) Replace Crank Sensor.