

NO: 18-03-96 Rev. B

SUBJECT: Erroneous MIL Illumination and/or Driveability Concerns

DATE: Apr. 19, 1996

THIS BULLETIN SUPERSEDES TECHNICAL SERVICE BULLETIN 18-03-96 REV. A DATED FEB. 16, 1996 WHICH SHOULD BE REMOVED FROM YOUR FILES. ADDITIONAL POWERTRAIN CONTROL MODULES (PCM) ARE SUPPORTED WITH MOPAR DIAGNOSTIC SYSTEM (MDS) RELEASE 19 AND TIL 1105. ADDITIONALLY, IF A PREVIOUS PCM UPDATE FAILED TO CORRECT A CONDITION FOR ERRONEOUS DIAGNOSTIC TROUBLE CODES (DTC) 76 AND 77, PERFORM A REFLASH. ENHANCEMENTS TO THE PCM SOFTWARE WERE MADE FROM TIL 1100 TO 1105.

SYMPTOM/CONDITION:

The following is a list of PCM updates for erroneous MIL (Check Engine Lamp) illumination and/or driveability concerns. Please perform updates to the PCM for any vehicle listed above that you encounter.

NOTE: IT IS NOT NECESSARY TO ALSO UPDATE THE PCM FOR CONDITIONS LISTED IN TSB 08-07-96 DATED MARCH 8, 1996 OR 24-03-96 DATED FEB. 23, 1996. PCM UPDATES PERFORMED WITH RELEASE 19 AND TIL 1105 WILL UPDATE THE SOFTWARE TO THE MOST RECENT LEVEL AND INCLUDE ALL PREVIOUS REVISIONS.

NOTE: IF YOU ENCOUNTER A DTC 76, YOU MUST VERIFY FUEL SYSTEM PRESSURE. USE THE APPROPRIATE SERVICE MANUAL FOR INFORMATION ON FUEL PRESSURE TESTER INSTALLATION. THE FUEL PRESSURE MUST BE 49 PSI +/- 2 PSI. IF THE FUEL PRESSURE IS OUT OF SPECIFICATION, REPAIR OR REPLACE ANY FUEL SYSTEM MALFUNCTIONING COMPONENTS AND PERFORM THE PCM UPDATE.

DODGE TRUCKS

Vehicle Line	Engine	Transmission	Condition
BR/AN/AB	2.5L/3.9L	N/A	Erroneous DTC HEX 77 (Fuel System Lean - MIL 51)
BR/AN/AB	2.5L/3.9L	N/A	Erroneous DTC HEX 76 (Fuel System Rich - MIL 52)
BR/AN/AB	3.9L	N/A	Spark Knock at 1200 rpm, Partial Cool Down Sag
BR/AN/AB	3.9L	N/A	Unable to Set Sync With the DRBIII
BR/AN/AB	5.2L	Manual	Sag/Hesitation and Warm Start Flare
BR/AN/AB	5.2L	Automatics	Sag/Hesitation, Cold Steady State Drive Surge, Warm Start Flare, Unable to Set Sync With the DRBIII, Idle Spark Stabilization
BR/AN/AB	ALL	Automatics	Erroneous DTC HEX A4 (Trans Temp Sensor, No Temp Rise After Start - MIL 37)
BR/AN/AB	ALL	N/A	Erroneous DTC HEX 69 (Downstream O2 Sensor Heater Failure - MIL 21)

JEEP VEHICLES

Vehicle Line	Engine	Transmission	Condition
XJ/ZJ	2.5L/4.0L	N/A	Erroneous DTC HEX 77 (Fuel System Lean - MIL 51)
XJ/ZJ	2.5L/4.0L	N/A	Erroneous DTC HEX 76 (Fuel System Rich - MIL 52)
ZJ	ALL	Automatics	Erroneous DTC HEX A4 (Trans Temp Sensor, No Temp Rise After Start - MIL 37)
ZJ	5.2L	Automatic	Sag/Hesitation, Cold Steady State Drive Surge, Warm Start Flare, Unable to Set Sync With the DRBIII, Idle Spark Stabilization
ZJ	4.0 L	N/A	Erratic Idle (Only on PCM 56043172)
ZJ/XJ	ALL	N/A	Erroneous DTC HEX 69 (Downstream O2 Sensor Heater Failure - MIL 21)

DIAGNOSIS:

Using the Mopar Diagnostic System (MDS) or the Scan Tool (DRBIII) and appropriate Diagnostic Procedure Manual, verify that all engine systems are functioning correctly. If Diagnostic Trouble Codes (DTCs) are present, record them on the repair order for future reference and repair as necessary. If any of the above conditions exist, perform the Repair Procedure.

EQUIPMENT/PARTS REQUIRED:

Quantity	Part No.	Description
1	CH6000	Scan Tool (DRBIII)
1	CH7035	General Purpose Interface Bus Cable (GPIB)
1	CH7000	J1962 Cable
1	4669020	Label - Authorized Software Update
1	4275086	Label - Authorized Modification

REPAIR PROCEDURE:

This bulletin involves selectively erasing and reprogramming the Powertrain Control Module (PCM) with new software (calibration change).

NOTE: MDS AND DRBIII ARE REQUIRED TO PERFORM THE FOLLOWING REPAIR. MDS MUST BE OPERATING WITH RELEASE 19 OR HIGHER AND TIL 1105 OR HIGHER INSTALLED.

1. Connect the MDS to the DRBIII and connect the DRBIII to the vehicle 16-way Data Link Connector (DLC) and power them up.
2. Use the arrow keys and select #2 MDS DIAGNOSTICS on the DRBIII MAIN MENU Screen.
3. Use the arrow keys and select DIAGNOSTIC MENU on the MDS, then press NEXT MENU.
4. Use the arrow keys and select VEHICLE CONTROLLER PROGRAMMING on the MDS, then press NEXT MENU.
5. Use the arrow keys and select PROGRAMMING OF ALL OTHER CONTROLLERS WITH MDS AND DRBIII on the MDS then press NEXT MENU.
6. Follow the steps presented on the MDS and DRBIII which will allow the DRBIII to obtain the current part number of the PCM.
7. The MDS will display the part number of the PCM on the vehicle and the appropriate replacement part number, then press NEXT MENU to begin programming.

If the PCM on the vehicle has already been updated or programmed, a NO UPDATES AVAILABLE message will be displayed. Check the part number of the PCM on the vehicle and compare it to the part number displayed. If the PCM has already been updated, then a system problem actually exists and should be corrected.

8. The MDS and DRBIII will prompt the operator for any action needed during the remainder of the programming process.

NOTE: THE FOLLOWING STEPS ARE REQUIRED BY LAW.

9. Type the necessary information on the "Authorized Software Update" label, P/N 4669020. Attach the label to the PCM and cover the label with the clear plastic overlay. ([See Illustration](#))
10. Type the necessary information on the Authorized Modification Label and attach the label near the VECI Label. ([See Illustration](#))

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No.	Description	Time
08-19-45-91	Reprogram Powertrain Control Module	0.5 Hrs.
08-19-45-92	Fuel Pressure Test For DTC 76 and Reprogram Powertrain Control Module	1.1 Hrs.

FAILURE CODE:

Code	Description
FM	Flash Module