

NO: 18-26-96

SUBJECT: Erroneous MIL Illumination and/or Driveability Concerns

DATE: Sep. 27, 1996

NOTE: THIS BULLETIN DOES NOT APPLY TO 1997 WRANGLERS BUILT BEFORE JULY 15, 1996 (MDH 0715XX). 1997 WRANGLERS BUILT AFTER THIS DATE CAN BE IDENTIFIED BY HAVING A TEN DIGIT PART NUMBER ON THE POWERTRAIN CONTROL MODULE (PCM) WHERE AS VEHICLES BUILT PRIOR TO THIS DATE HAVE AN EIGHT DIGIT PART NUMBER ON THE PCM.

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.

Vehicle Line	Engine	Transmission	Condition
BR/AN/AB/ZJ	5.2L/5.9L (Gas)	Automatic	Sag/Hesitation any time during engine warm-up
AN/TJ	All	All	Oil Pressure Gauge drop-out, Check Gauge lamp illuminated, and Warning Chime caused from an erroneous low oil pressure warning.
BR/AN/AB/TJ/ZJ	All Except 5.9L Diesel	All	MIL does not clear (turn off) after three good trips following a misfire trouble code.
BR/AN/AB/TJ/ZJ	All Except 5.9L Diesel	All	An erroneous single cylinder misfire DTC is displayed when an actual Multiple Cylinder Misfire (DTC HEX 6A) occurs.
ZJ	4.0L/5.2L	All	Cannot actuate the Leak Detection Pump for testing using the DRB III
BR/AN/AB/TJ/ZJ	All Except 5.9L Diesel	All	Momentary (45 secs.) poor idle quality following a hot engine restart.
BR/AN/AB/TJ/ZJ	All Except 5.9L Diesel	All	Engine start and stall due to IAC stepper motor position memory loss.
BR/AN/AB/TJ/ZJ	All	All	A/C clutch does not engage following a battery disconnect. The clutch may engage only after seven request signals have been recognized by the PCM.
BR/AN/AB/TJ/ZJ	All Except 5.9L Diesel	All	Erroneous DTC HEX 72 (P/N Switch Stuck in Park or in Gear).
BR	8.0L	All	Erroneous DTC HEX C2 (Slow 1/2 O2S During Catalyst Monitor).

DIAGNOSIS:

Using the Mopar Diagnostic System (MDS) or the Scan Tool (DRB III) 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. Any DTCs not identified in this TSB and/or DTCs identified in this TSB that are not listed in the SYMPTOM/CONDITION as erroneous should be repaired as necessary. If any of the above conditions or DTCs exist, perform the Repair Procedure.

EQUIPMENT/PARTS REQUIRED:

Quantity	Part No.	Description
1	CH6000	Scan Tool (DRB III)
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 DRB III ARE REQUIRED TO PERFORM THE FOLLOWING REPAIR. MDS MUST BE OPERATING WITH RELEASE 20 OR HIGHER AND TIL 1117 OR HIGHER INSTALLED.

1. Connect the MDS to the DRB III and connect the DRB III 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 DRB III 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 DRB III on the MDS then press NEXT MENU.
6. Follow the steps presented on the MDS and DRB III which will allow the DRB III 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 DRB III 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:

Reprogram Powertrain Control Module

Labor Operation No.	Time
08-19-46-90	0.5 Hrs.

FAILURE CODE:

Code	Description
FM	Flash Module