

**NO: 18-32-96**

**SUBJECT: Erroneous MIL Illumination/Driveability Improvements**

**DATE: Nov. 8, 1996**

**NOTE: THIS BULLETIN APPLIES TO 1997 WRANGLERS BUILT BEFORE JULY 15, 1996 MDH (07-15-XX). THESE VEHICLES CAN BE IDENTIFIED BY AN 8 DIGIT PART NUMBER ON THE POWERTRAIN CONTROL MODULE.**

**SYMPTOM/CONDITION:**

ENGINE	TRANSMISSION	CONDITION
2.5/4.0L	ALL	ERRONEOUS MIL - DTC \$24 (MAP SENSOR VOLTAGE TOO LOW).
4.0L	AUTOMATIC W/3.07 AXLE RATIO	ERRONEOUS MIL - DTC \$94 (TORQ CONV CLU, NO RPM DROP AT LOCKUP). <b>SEE TSB 21-14-96 FOR ADDITIONAL PROCEDURES.</b>
2.5L	ALL	COLD ENGINE SAG OR HESITATION. <b>SEE TSB 18-31-96 FOR ADDITIONAL PROCEDURES.</b>
2.5L	ALL	ERRONEOUS MIL - DTC \$77 (FUEL SYSTEM LEAN). <b>SEE TSB 18-31-96 FOR ADDITIONAL PROCEDURES.</b>
2.5/4.0L	ALL	OIL PRESSURE GAUGE DROP-OUT, CHECK GAUGE LAMP ILLUMINATED, AND WARNING CHIME CAUSED BY ERRONEOUS LOW OIL PRESSURE WARNING.
2.5/4.0L	ALL	OBD II DTC's DO NOT SELF ERASE AFTER 40 WARM UP CYCLES.
2.5L	MANUAL	POOR ENGINE IDLE QUALITY WHEN HVAC SELECTOR LEVER IS MOVED FROM THE "OFF" POSITION, PAST BOTH A/C POSITIONS, TO ANY OTHER POSITION (VENT OR DEFROST).

**DIAGNOSIS:**

Using the Mopar Diagnostic System (MDS) or the Diagnostic Scan Tool (DRB III) with the appropriate Diagnostic Procedures Manual, verify all engine/transmission systems are functioning as designed. If Diagnostic Trouble Codes (DTC's) are present, record them on the repair order and repair as necessary before proceeding further with this bulletin. If no DTC's or those listed above are present and any of the above symptoms have been experienced, perform the Repair Procedure.

**EQUIPMENT REQUIRED:**

All Symptoms (Flash Programming)

Quantity	Part No.	Description
1	CH6000	Scan Tool (DRB III)
1	CH7035	General Purpose Interface Bus Cable (GPIB)
1	CH7000/7001	J1962 Cable
1	4669020	Label - Authorized Software Update
1	4275086	Label - Authorized Modification

**NOTE: THE MDS AND DRBIII ARE REQUIRED TO PERFORM THIS REPAIR AND THE SYSTEM MUST BE OPERATING WITH RELEASE 20 OR HIGHER AND TIL CD RELEASE 1119 OR HIGHER MUST BE INSTALLED.**

**REPAIR PROCEDURE:**

This repair involves selectively erasing and reprogramming the Powertrain Control Module (PCM) with new software (calibration changes) for all conditions listed.

1. Connect the MDS (Mopar Diagnostic System) and DRB III (Scan Tool) to the vehicle 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 USING MDS & DRBIII 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 another condition exists that will require further diagnosis and repair.

8. The MDS and DRB III will prompt for any operator 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.	Time
08-19-46-97	0.5 Hrs.

**FAILURE CODE:**

Code	Description
FM	Flash Module