

# Technical Service Bulletin

**NUMBER:** 18-013-01

**GROUP:** Vehicle Performance

**DATE:** June 11, 2001

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## **SUBJECT:**

Rough Idle at Cold Temperatures

## **OVERVIEW:**

This bulletin involves selectively erasing and reprogramming the Powertrain Control Module (PCM) with new software (Cal level 00Cal15C.).

## **MODELS:**

2000 (TJ) Wrangler  
2000 (WJ) Grand Cherokee  
2000 (XJ) Cherokee

**NOTE: THIS BULLETIN APPLIES TO VEHICLES EQUIPPED WITH A 4.0L (ERH) ENGINE, CALIFORNIA EMISSIONS (NAE), AND CALIBRATION LEVEL PRIOR TO (LESS OR LOWER THAN) THAT LISTED IN THE OVERVIEW ABOVE.**

## **SYMPTOM/CONDITION:**

Some vehicle engines may exhibit a rough idle and/or MIL light "on" condition upon initial start-up after a cold soak when temperatures are below 50°F (10°C).

## **DIAGNOSIS PROCEDURES:**

1. Using the Diagnostic Scan Tool (DRBIII®) with the appropriate Diagnostic Procedures, verify all engine/transmission systems are functioning as designed. If other Diagnostic Trouble Codes are present, record them on the repair order and repair as necessary before proceeding further with this bulletin.
2. If the only condition seen is the rough idle and/or MIL light "on" condition upon initial start-up after a cold soak when temperatures are below 50°F (10°C) perform the Repair Procedure.

## **PARTS REQUIRED:**

Qty.	Part No.	Description
1	04669020	Label, Authorized Software Update
1	04275086	Label, Authorized Modification

**EQUIPMENT REQUIRED:**

CH6000	Scan Tool (DRB III®)
CH7035	General Purpose Interface Bus Cable (GPIB)
CH7000/7001	J1962 Cable
	MDS2 (Mopar Diagnostic System)

**NOTE: THE MDS2 AND DRB III® ARE REQUIRED TO PERFORM PART OF THIS REPAIR, WHEN USING THE MDS2 AND THE DRB III®, THE SYSTEM MUST BE OPERATING AT CIS 2084 OR HIGHER (CD 2084 ARRIVES IN DEALERSHIPS ON JUNE 11, 2001).**

**REPAIR PROCEDURE:**

1. Log onto the MDS2 (Mopar Diagnostic System).
2. Connect the MDS2 and DRB III® to the vehicle and switch the ignition key to "ON".

**NOTE: AUTO CONNECTION WILL OCCUR ONCE THE DRB III®, MDS2, AND VEHICLE ESTABLISH COMMUNICATION. THE "CANNOT READ VIN FROM DRB III®" MESSAGE (ON THE MDS2) WILL BE REPLACED BY THE VEHICLE VIN. PRESS THE "OK" BUTTON ON THE MDS2 TO REQUEST A MDS2 SESSION FOR THE VEHICLE VIN INDICATED. PRESS THE "OK" BUTTON WHEN ASKED TO BEGIN SESSION.**

3. Push the FLASH tab on the MDS2.
4. Select READ PART NUMBERS FROM VEHICLE and click SHOW UPDATES on the MDS2.

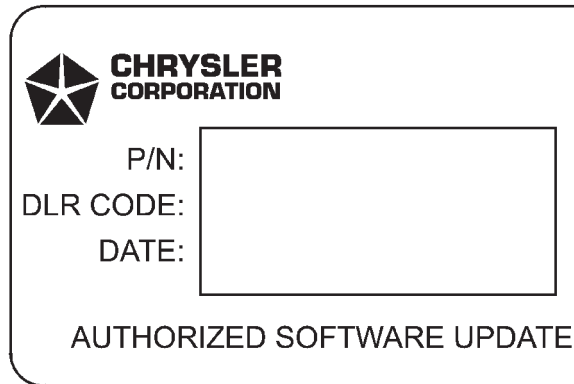
**NOTE: A MESSAGE MAY APPEAR (AFTER STEP 3 OR 4) THAT INDICATES NO UPDATES ARE AVAILABLE. IF THIS OCCURS, MAKE SURE YOUR DIAGNOSTIC EQUIPMENT IS OPERATING AT THE LATEST SOFTWARE LEVEL AS LISTED EARLIER IN THIS BULLETIN. IF THE LATEST SOFTWARE IS INSTALLED, AND NO UPDATES ARE AVAILABLE ANOTHER VEHICLE CONDITION EXISTS THAT WILL REQUIRE FURTHER INVESTIGATION.**

5. Select the new software part number with the light pen and click UPDATE CONTROLLER SOFTWARE.
6. The MDS2 and DRB III® will prompt for any operator action needed during the remainder of the reprogramming process.

**NOTE: DUE TO THE PCM REPROGRAMMING PROCEDURE, A DTC MAY BE SET IN OTHER MODULES (EATX, BCM, MIC, SKIM, ETC.) WITHIN THE VEHICLE, IF SO EQUIPPED. SOME DTC'S MAY CAUSE THE MIL TO ILLUMINATE. ALL DTC'S RELATE TO A LOSS OF COMMUNICATIONS WITH THE MODULE THAT IS BEING REPROGRAMMED. CHECK ALL MODULES, RECORD THE FAULTS, AND ERASE THESE FAULTS PRIOR TO RETURNING THE VEHICLE TO THE CUSTOMER. ERASE ANY FAULTS IN THE PCM ONLY AFTER ALL OTHER MODULES HAVE HAD THEIR FAULTS ERASED.**

**NOTE: THE FOLLOWING STEPS ARE REQUIRED BY LAW.**

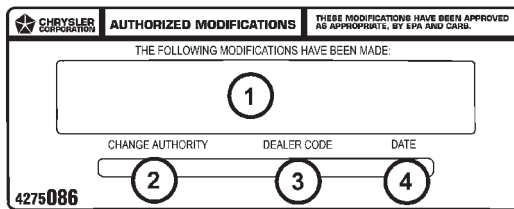
- 7. Type the necessary information on the “Authorized Software Update Label” p/n 04669020 (Figure 1). Attach the label to the PCM and cover the label with the clear plastic overlay.



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**FIGURE 1 - AUTHORIZED SOFTWARE UPDATE LABEL**

- 8. Type the necessary information on the “Authorized Modification Label” p/n 04275086 and attach the label near the VECI label (Figure 2).



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**FIGURE 2 - AUTHORIZED MODIFICATION LABEL**

1-	POWERTRAIN CONTROL MODULE P/N (INSERT P/N) USED
2-	CHANGE AUTHORITY: TSB XX-XX-XX
3-	DEALER CODE: XXXXX
4-	DATE: XX-XX-XX

**POLICY:**

Reimbursable within the provisions of the warranty.

**TIME ALLOWANCE:**

Labor Operation No:		
08-19-41-95	Reprogram PCM	0.5 Hrs.

**FAILURE CODE:**

FM	Flash Module
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