

# Technical Service Bulletin

**NUMBER:** 18-001-01

**GROUP:** Vehicle Performance

**DATE:** Jan. 26, 2001

*This bulletin is supplied as technical information only and is not an authorization for repair. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without written permission of DaimlerChrysler Corporation.*

**THIS BULLETIN SUPERCEDES TECHNICAL SERVICE BULLETIN 18-023-00 REV. A, DATED DEC. 21, 2000, WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **\*\*ASTERISKS\*\***. THIS LATEST REVISION NOW INCLUDES THE WJ - CALIF. EMISSION PACKAGE.**

**SUBJECT:**

4.7L Engine Performance Enhancements

**OVERVIEW:**

This bulletin involves selectively erasing and reprogramming the Powertrain Control Module (PCM) with new software (calibration level 99Cal20 and 00Cal17)

**MODELS:**

2000 (AN) Dakota  
2000 (DN) Durango  
1999 - 2000 (WJ) Grand Cherokee

**NOTE: **\*\*THIS BULLETIN APPLIES TO VEHICLES EQUIPPED WITH A 4.7L ENGINE.\*\*****

**SYMPTOM/CONDITION:**

Some vehicle engines may exhibit several of the following engine performance conditions:

1. Part throttle or wide open throttle spark knock.
2. **\*\*Sag or hesitation following a cold engine start (except WJ with Calif. emissions).\*\***
3. Rough idle.
4. Idle sag when decelerating to a stop.

**DIAGNOSIS PROCEDURES:**

1. If the customer experiences any of the above conditions, then 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 CD 2076 OR HIGHER.**

**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.

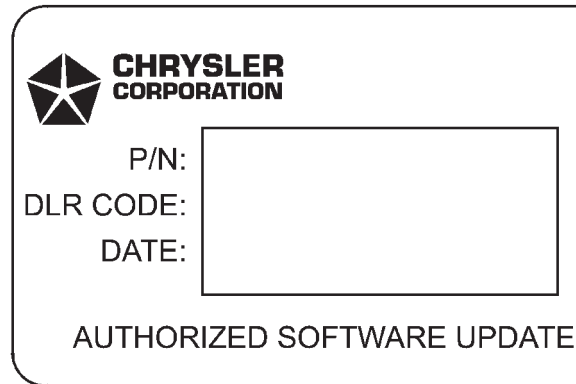
**NOTE: A MESSAGE MAY APPEAR (AFTER STEP 3 OR 4) THAT INDICATES NO UPDATES ARE AVAILABLE. IF THIS OCCURS, MAKE SURE YOUR DIAGNOSTIC EQUIPMENT IS OPERATING AT THE LATEST SOFTWARE LEVEL AS LISTED EARLIER IN THIS BULLETIN. IF THE LATEST SOFTWARE IS INSTALLED, AND NO UPDATES ARE AVAILABLE ANOTHER VEHICLE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

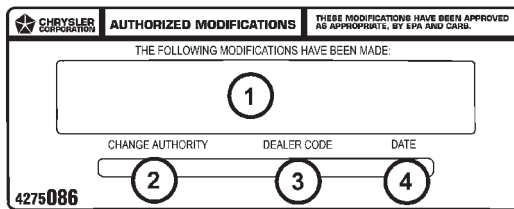
- 7. Type the necessary information on the “Authorized Software Update Label” p/n 04669020 (Figure 1). Attach the label to the PCM and cover the label with the clear plastic overlay.



80bb0a94

**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).



80bb0af8

**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:		
08-19-44-96	Reprogram PCM	0.5 Hrs.

**FAILURE CODE:**

FM	Flash Module
----	--------------