



NUMBER: 21-006-03 REV. A

GROUP: Transmission

DATE: August 1, 2003

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THIS BULLETIN SUPERSEDES TECHNICAL SERVICE BULLETIN 21-006-03, DATED JUNE 20, 2003, WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **ASTERISKS**** AND INCLUDES ADDITION OF KJ AND 2.4L RS VEHICLES , REVISED NOTES, AND NEW APPLICATION TABLE.**

****THE SOFTWARE IS CURRENTLY AVAILABLE ON TechCONNECT FOR CS, JR, LH, PL, PT, 3.3L AND 3.8L RS/RG, AND TJ VEHICLES**.**

****THIS BULLETIN IS BEING PROVIDED IN ADVANCE FOR 2.4L RS/RG VEHICLES. THE SOFTWARE WILL BE AVAILABLE ON TechCONNECT ON OR AFTER AUGUST 18, 2003. KJ SOFTWARE WILL BE AVAILABLE ON TechCONNECT ON OR AFTER SEPTEMBER 3, 2003.****

SUBJECT:

Transmission Harsh 4-3 Downshift

OVERVIEW:

This bulletin involves reprogramming the Transmission Control Module (TCM).

MODELS:

| | | |
|---------------|------|---|
| 2004 | (CS) | Pacifica |
| 2003 - 2004 | (JR) | Sebring Convertible/Sebring Sedan/Stratus Sedan |
| **2003 | (KJ) | Liberty** |
| **2003 | (KJ) | Cherokee (International Markets)** |
| 2003 - 2004 | (LH) | 300M/Concorde/Intrepid |
| 2003 | (PL) | Neon/SX 2.0 |
| 2003 | (PT) | PT Cruiser |
| 2003 | (RG) | Chrysler Voyager (International Markets) |
| 2003 | (RS) | Town & Country/Caravan/Voyager |
| 2003 | (TJ) | Wrangler |

NOTE: **Refer to the following table for specific applications.**

| Model | Engine | Transmission | Built On Or Before |
|-------|--------------|--------------|--------------------|
| CS | 3.5L | 41TE | July 10, 2003 |
| JR | 2.4L or 2.7L | 41TE | July 2, 2003 |

| Model | Engine | Transmission | Built On Or Before |
|-------|--------------------|--------------|--------------------|
| KJ | 3.7L | 42RLE | |
| LH | 2.7L or 3.5L | 42LE | |
| PL | 2.0L | 41TE | |
| PT | 2.0L or 2.4L | 41TE | |
| RS/RG | 2.4L, 3.3L or 3.8L | 41TE | |
| TJ | 4.0L | 42RLE | |

SYMPTOM/CONDITION:

Vehicle may exhibit, after an extended soak (several hours), a harsh 4-3 downshift.

DIAGNOSIS:

Using a Scan Tool (DRBIII®) with the appropriate Diagnostic Procedures, verify all engine systems are functioning as designed. If DTCs are present record them on the repair order and repair as necessary before proceeding further with this bulletin.

If the vehicle operator describes the Symptom/Condition, perform the Repair Procedure.

PARTS REQUIRED:

| Qty. | Part No. | Description |
|--------|------------|-----------------------------------|
| AR (1) | 04669020 | Label, Authorized Software Update |
| AR (1) | 04275086AB | Label, Authorized Modification |

EQUIPMENT REQUIRED:

| | |
|---------------|--|
| NPN | Battery Charger |
| CH2002 | General Purpose Interface Bus Cable Assembly |
| CH6000A | Scan Tool (DRBIII®) |
| CH7000A/7001A | J1962 Cable |
| | TechCONNECT Workstation |

NOTE: **An updated J1962 cable has been released. This cable has a red colored connector at the DRBIII® connection. Use this cable whenever a flash is being preformed.**

REPAIR PROCEDURE:

1. Check the transmission fluid level. If fluid level is full proceed to step 2. If fluid level is low, diagnose and repair fluid leak. Proceed to step 2.

NOTE: Whenever a PCM/TCM is replaced or reprogrammed, the software in the controller and DRBIII® must be verified as having the latest revision level. If a controller software update flash is available, complete the flash and labeling requirement as directed in the appropriate service bulletin identified on the TechCONNECT.

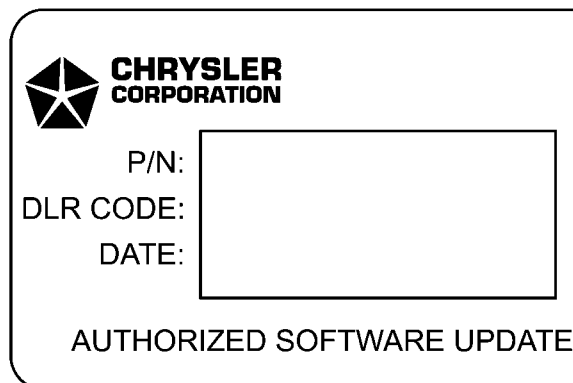
2. Connect a battery charger and set as close to 14 volts charge as possible.
3. Flash the controller using the TechCONNECT and DRBIII®.

NOTE: **Using the DRBIII® preform the proper Quick Learn procedure. Refer to the service information available in TechCONNECT or the appropriate service manual in Section 8E - Electronic Control Modules.**

NOTE: Due to the PCM reprogramming procedure, a DTC may be set in other modules (TCM, 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 DTC's, and erase these DTC's prior to returning the vehicle to the customer. Erase any DTC's in the PCM only after all other modules have had their DTC's erased.

NOTE: The following steps are required by law.

4. Type the necessary information on the "Authorized Software Update Label" p/n 04669020 (Fig. 1). Attach the label to the controller and cover the label with the clear plastic overlay.



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Fig. 1 AUTHORIZED SOFTWARE UPDATE LABEL

5. Type the necessary information on the "Authorized Modification Label" p/n 04275086AB and attach near the VECI label (Fig. 2).

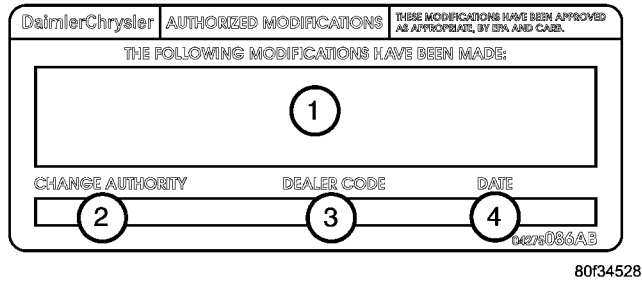


Fig. 2 AUTHORIZED MODIFICATION LABEL

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

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

| Labor Operation No: | Description | Amount |
|---------------------|---------------------------------------|----------|
| 08-19-37-90 | Reprogram Transmission Control Module | 0.5 Hrs. |

FAILURE CODE:

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