2006 Jeep Truck Wrangler L6-4.0L VIN S

Vehicle > Powertrain Management > Technical Service Bulletins

ENGINE CONTROLS - MIL ON/DTC'S P0340/P0344 SET

NUMBER: 18-015-09

GROUP: Vehicle Performance

DATE: May 9, 2009

THE StarSCAN(R) FLASH FILES FOR THIS BULLETIN MUST BE RETRIEVED FROM THE INTERNET.

StarSCAN(R) SOFTWARE LEVEL MUST BE AT RELEASE 9.05 OR HIGHER FOR THIS BULLETIN.

StarMOBILE STANDALONE MODE OR StarMOBILE DESKTOP CLIENT MAY ALSO BE USED TO PERFORM THIS PROCEDURE.

WHENEVER A MODULE IS REPROGRAMMED, THE SOFTWARE IN THE DRBIII(R); MUST BE PROGRAMMED WITH THE LATEST REVISION LEVEL AVAILABLE.

SUBJECT:
Flash: MIL Illumination Due To Diagnostic Trouble Code P0340 Or P0344

OVERVIEW:
This bulletin involves selectively erasing and reprogramming the Powertrain Control Module (PCM) with new software.

MODELS:

2002-2003 DN Durango 2002 - 2004 (LH) Concorde/Intrepid/Vision/LHS/New Yorker/300M 2005 - 2006 (LX) 300/Charger/Magnum 2005 - 2006 (LE) 300C/300C Touring 2004 - 2006 (DR) Ram Truck 2004 (AN) Dakota 2005-2006 (ND) Dakota 2005 - 2006 (JR) Sebring Sedan & Convertible/Stratus Sedan 2006 (PT) Chrysler PT Cruiser 2005 - 2006 (TJ) Wrangler 2005 - 2006 (TJ) Wrangler (International)

NOTE:
 This bulletin applies to:

 ^ DR vehicles equipped with a 3.7L/4.7L/5.7L engine (sales code EKG, EVA, EVD, EZA or EZB)

 ^ 2002 LH vehicles equipped with a 2.7L or 3.5L engine (sales code EER, EES, EGG, EGG, EGK or EGJ)

 ^ 2003 and 2004 LH vehicles equipped with a 2.7L engine (sales code EER)

 ^ LX/LE vehicles equipped with a 2.7L/3.5L or 5.7L engine (sales code EER, EGG or EZB)

 ^ JR vehicles equipped with a 2.7L engine (sales code EER or EER)

 ^ TJ vehicles equipped with a 4.0L engine (sales code ERH)

^ AN vehicles equipped with a 3.7L or 4.7L engine (sales code EGK or EVA)

^ ND vehicles equipped with a 3.7L or 4.7L engine (sales code EGK, EVA or EVC)

^ PT vehicles equipped with a 2.4L engine (sales code EDZ)

^ DN vehicles equipped with a 4.7L engine (sales code EVA)

SYMPTOM/CONDITION:

The software contains the following improvements for all customers:

^ A MIL illumination for P0340 - Camshaft Position Sensor Circuit - Bank 1 Sensor 1

^ A MIL illumination for P0344 - Camshaft Position Sensor Intermittent - Bank 1 Sensor 1

DIAGNOSIS:
Using a Scan Tool (DRBIII(R) or StarSCAN(R)) with the appropriate Diagnostic Procedures available in
TechCONNECT, 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 or experiences the Symptom/Condition, perform the Repair Procedure.

Qty.	Part No.	Description
1	04275086AB	Label, Authorized Modification

PARTS REQUIRED:

VEHICLES UPDATED USING StarSCAN®	
NPN	Battery Charger
CH9401	StarSCAN® Tool
CH9404D	StarSCAN® Vehicle Cable
CH9409	StarSCAN® Documentation Kit
CH9410	StarSCAN® Ethernet Cable, 12 ft.
CH9412	StarSCAN® Software Update Device Kit
	TechCONNECT PC or equivalent

SPECIAL TOOLS / EQUIPMENT REQUIRED:

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

REPAIR PROCEDURE - USING StarSCAN AND THE INTERNET TO RETRIEVE THE

FLASH FILE:

1.Reprogram the PCM with the latest software. Follow the detailed service procedures available in DealerCONNECT/TECHCONNECT, Refer To 8 - Electrical/Electronic Control Modules/Powertrain Control Module - Standard Procedure PCM/ECM Programming - Gas.

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

REPAIR PROCEDURE FOR DOMESTIC VEHICLES USING DRBIII(R) AND DOWNLOADING THE FLASH FILE FROM DealerCONNECT:

NOTE:
  Whenever a module is reprogrammed, the software in the DRBIII(R); must be programmed with the latest revision level available.

NOTE:
  If this flash process is interrupted/aborted, the flash process should be restarted and then follow the directions on the DRBIII(R).

1.Before beginning the flash procedure, remove any old flash files from the DRBIII(R) memory. To clear the memory from the MAIN MENU:

  a. Simultaneously press the "MORE and "YES" keys.

  b. A screen will appear requesting a "COLD BOOT".

  c. Follow the on screen instructions by selecting the "F4" key.

  d. When the DRBIII(R) reboots to the MAIN MENU, proceed to Step # 2

2.With the ignition switch in the "RUN" position, determine the original part number of the PCM currently in the vehicle. Using the DRBIII(R) select:

  a. "DRBIII(R) Standalone".

  b. "1998 - 2005 Diagnostics".

  c. "All (Except Below)".

  d. "Engine".

  e. "Module Display".

  f. Record the "PCM part # " on the repair order for later reference.

3.Connect the DRBIII(R) to TechCONNECT. Open TechTOOLS and verify that the "DRBIII(R) Status: Connected" message is in the upper right corner of the TechTOOLS screen.

4.Enter the "PCM part # recorded in Step # 2 in the "Parts Criteria" area and select "Show Updates". TechTOOLS will populate the appropriate flash file.

5.Select the flash file.

6.Select the "DRBIII" radio button which is next to the "Download/Update" button.

7.Select the "Download/Update" button.

8.Monitor the "Flash Download/Update Progress" window on the TechCONNECT and follow the instructions on TechCONNECT. When the flash process is complete, proceed to Step # 9.

9.Disconnect the DRBIII(R) from TechCONNECT.

10.Open the hood, install a battery charger and verify that the charging rate provides approximately 13.5 volts.

11.Connect the DRBIII(R) to the vehicle.

12.Download the flash file from the DRBIII(R) to the vehicle. Using the DRBIII(R) select:

  a. "Vehicle Flash".

  b. Follow the directions on the DRBIII(R) screen. When the flash process is complete, proceed to the next step.

13.Reset the "Pinion Factor" as necessary.

14.Perform the transmission Quick Learn Procedure as necessary.

NOTE:
  Due to the PCM programming 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. Check all modules using "Module Scan", 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 step is required by law.

15.Type the necessary information on the "Authorized Modification Label" p/n 04275086AB and attach near the VEC label.

REPAIR PROCEDURE FOR EXPORT VEHICLES USING DRBIII(R) AND DOWNLOADING THE FLASH FILE FROM DealerCONNECT:

NOTE:
  Whenever a controller is programmed, the software in the DRBIII(R); must be programmed with the latest revision level available.

NOTE:
  If this flash process is interrupted/aborted, the flash should be restarted and then follow the directions on the DRBIII(R).

1.Before beginning the reprogramming procedure, remove any old flash reprogramming files from the DRBIII(R) memory. To clear the memory from the MAIN MENU:

  a. Simultaneously press the "MORE" and "YES" keys.

  b. A screen will appear requesting a "COLD BOOT".

  c. Follow the on screen instructions by selecting the "F4" key.

  d. When the DRBIII(R) reboots to the MAIN MENU, proceed to Step # 2

2.With the ignition switch in the "RUN" position, determine the original part number of the PCM currently in the vehicle. Using the DRBIII(R) select:

  a. "DRBIII(R) Standalone"

  b. "1998 - 2006 Diagnostics"

  c. "All (Except Below)"

  d. "Engine"

  e. "Module Display"

  f. Record the "PCM part # " on the repair order for later reference.

  g. Disconnect the DRBIII(R) from the vehicle.

  h. Connect the DRBIII(R) to the ITIL/ISIS PC and NULL modem cable.

3.Log into DealerCONNECT. Proceed to: Service / Repair - Flash.

4.Select vehicle Year, Model, and Engine (YME). Then select the "Submit" button at the bottom of the screen.

5.Compare the calibration part number available for flash reprogramming to the module part number recorded earlier. Select the new calibration if applicable.

Labor Operation No:	Description	Amount
18-19-06-F8	Module, Powertrain Control (PCM) - Reprogram (B)	0.4 Hrs. LX, LE, ND, PT, JR, 2006 DR Bodies
		0.5 Hrs. DN, LH, TJ AN, 2004 and 2005 DR Bodies

TIME ALLOWANCE:

ZZ	Service Action

FAILURE CODE:

Disclaimer:

This bulletin is supplied as technical information only and is not an authorization for repair.