

TECHNICAL SERVICE BULLETIN

SUBJECT:		No: TSB-05-13-009REV	
PCM REPROGRAMMING FOR DTC P0125		DATE: June, 2005	
		MODEL: 2001 Montero	
CIRCULATE TO:	☐ GENERAL MANAGER	☒ PARTS MANAGER	☒ TECHNICIAN
☒ SERVICE ADVISOR	☒ SERVICE MANAGER	☒ WARRANTY PROCESSOR	☐ SALES MANAGER

*This bulletin supercedes TSB-05-13-009, issued April, 2005.
Revised information is indicated by ► .*

PURPOSE

Incorrect PCM software parameters may cause Diagnostic Trouble Code **P0125** (Excessive Time to Enter Closed Loop Fuel Control) to set. To eliminate this condition, reprogram the PCM as described ► in this bulletin. Replace the four heated oxygen sensors after reprogramming the PCM if they were not replaced in a previous warranty repair after 11/02.

AFFECTED VEHICLES

2001 Montero

PROCEDURE

CAUTION

BATTERY VOLTAGE (AS MEASURED AT THE BATTERY POSTS WITHOUT ELECTRICAL LOAD) MUST BE 12.4V OR HIGHER IN ORDER TO REPROGRAM THE PCM.

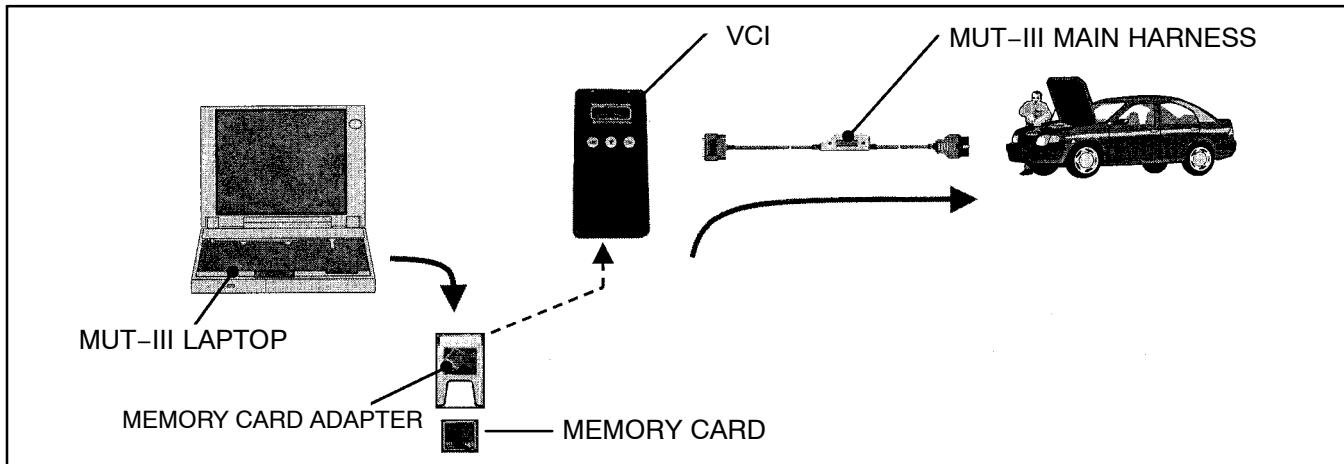
1. Check the underside of the hood to verify that there is no label previously installed to indicate that this TSB reprogramming has already been done.
2. Verify that the vehicle's PCM part number is listed in the table in Step 9.
 - a. Verify whether the ROM ID is the same as the ROM ID listed in the table in Step 9. If the ROM ID is the same as or higher than the ROM ID in the table, the PCM has already been reprogrammed for this concern.
3. Use the MUT-III to erase all DTCs set in the PCM.
4. Verify that your MUT-III has the most current version of the reprogramming database:
 - a. Select "Special Function", then select "ECU Reprogramming."
 - b. Select "Database File Display". The database version is displayed in the top right corner of the screen. Make sure the database version is **N05021 or greater.**
 - c. If the database version is less than N05021, install the latest reflash database. Then go to Step 5.
 - d. If the database version is N05021 or greater, go to Step 7.
5. Turn the ignition key to OFF and **disconnect the MUT-III.**

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6. Gather the following reprogramming equipment:

- Memory Card 128 MByte Compact Flash MB991853
- Memory Card Adapter PCMCIA MB991939
- VCI unit MB991824
- MUT-III main harness A MB991910 (blue)
- "Engine Compartment/Control Module" Labels p/n MSSF-024G-00



7. Transfer the reprogramming data from the laptop to the memory card.
8. Remove the memory card from the laptop and install it in the VCI. Connect the VCI to the vehicle.
YOU MUST DISCONNECT THE MUT-III LAPTOP.
9. Select "1 Automatic rpg." For reprogramming details, refer to [TSB-03-00-015](#). It will take up to 20 minutes to complete the reprogramming.

NOTE: If the message "ECU at Current Level of VCI" appears, the PCM did not reprogram. Verify that the ROM ID is the same as the ROM ID listed in the table below.

- If the ROM ID is the same as or higher than the ROM ID in the table, the PCM has been reprogrammed for this concern.
- If it is not, verify that the correct database update is in the MUT-III and was transferred to the memory card, and that the memory card is properly installed in the VCI.

⚠ CAUTION

DO NOT DISTURB THE HARNESS CABLES OR CONNECTIONS. INTERRUPTION DURING THE PROGRAMMING PROCESS COULD CAUSE THE PCM TO LOSE DATA OR PREVENT FUTURE PCM REPROGRAMMING.

The table below lists the PCM part numbers and ROM IDs that will display after reprogramming.

- After reprogramming is completed, the new ENG ROM ID and new A/T ROM ID will display alternately with the message "Turn IG SW OFF" every four seconds. Note this information. Verify that the new PCM p/n and ROM IDs are the same as those listed in the table below.

			DISPLAY ON MUT-III AFTER REPROGRAMMING		
MODEL	PCM PART NUMBER	MUT-III REPROGRAMMING DATABASE	ECU PART NUMBER	ROM ID	VENDOR #
2001 Montero	MR507699	VN04071	MR507699	Eng: 856221 A/T: 828217	E2T79381H95
2001 Montero sold in Puerto Rico	MR514089	VN04073	MR514089	Eng: 872320 A/T: 840806	E2T79392H84
2001 Montero sold in Puerto Rico	MR507700	VN04072	MR507700	Eng: 865420 A/T: 836911	E2T79382H84

10. Using a ball-point pen, enter the appropriate PCM part number, vendor number, ROM ID#, this TSB number (TSB-05-13-009), your dealer code, and the current date on the Engine Compartment / Control Module Label (part no. MSSF-024G-00).

 MITSUBISHI MOTOR SALES OF AMERICA, Inc.		AUTHORIZED MODIFICATIONS		These Modifications Have Been Approved as Appropriate by EPA and CARB	
THE FOLLOWING MODIFICATIONS HAVE BEEN MADE:					
PART NUMBER 		VENDOR CODE 		ROM ID # 	
TSB 				ENG 	
A/T 				A/T 	
		DEALER CODE 		DATE 	
<i>Engine Compartment Label</i>					

AUTHORIZED MODIFICATIONS	
 MITSUBISHI MOTOR SALES OF AMERICA, Inc.	
P/N Vndr Code TSB Dir Code Date	
<i>Control Module Label</i>	

11. Carefully remove all dirt and oil from a vacant area near the VECI label on the underside of the hood, and affix the Engine Compartment label.
12. Affix the Control Module label to the PCM.
13. Check the warranty history for the vehicle.
- ▶ a. If the oxygen sensors were already replaced after 11/02, STOP. Do not continue with this procedure.
 - ▶ b. If the oxygen sensors were **not** already replaced after 11/02, replace the four heated oxygen sensors with the oxygen sensors listed in the PARTS INFORMATION section of this bulletin. Refer to Group 13 in the 2001 Montero service manual.

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PARTS INFORMATION

Use the Genuine Mitsubishi Parts listed below.

Description	Part Number
Oxygen Sensor, Right front, Bank 1, Sensor 1	MD365014
Oxygen Sensor, Left front, Bank 2, Sensor 1	MD369190
Oxygen Sensor, Right rear, Bank 1, Sensor 2	MD365016
Oxygen Sensor, Left rear, Bank 2, Sensor 2	MD369192

WARRANTY INFORMATION

PCM Reprogramming for DTC P0125

Nature Code: 16D

Cause Code: 490

Labor Operation No. 13850113

Time Allowance: 0.3 hr.

Warranty Coverage: 8 years / 80,000 miles Emissions warranty

Mitsubishi Motors North America, Inc.

The information contained in this bulletin is subject to change. For the latest version of this document, go to the Mitsubishi Dealer Link, MEDIC, or the Mitsubishi Service Information website (www.mitsubishitechinfo.com).