# Service Bulletin

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Mazda North American Operations Irvine, CA 92618-2922



Sub	oject:		

MAZDA SPECIAL PROGRAM (MSP03) - SHIFT SHOCK - TRANSMISSION CONTROL MODULE (TCM) REFLASH Last Is

Bulletin No: 05-006/14

Last Issued: 04/30/2014

# **BULLETIN NOTE**

- This bulletin supersedes the previous bulletins 05-003/04 issued 5/20/04 and 05-009/07 issued on 09/05/07. The REPAIR PROCEDURE has been revised.
- Changes are noted below beside the change bar in Red.

## APPLICABLE MODEL(S)/VINS

2003 - 2004 MPV vehicles built from April 1, 2003 through January 26, 2004

- 2003 VIN Range: JM3LW28\*\*30367822 378984
- 2004 VIN Range: JM3LW28\*\*40500013 518096

## DESCRIPTION

The vehicle's automatic transaxle (ATX) may exhibit shift shock while the engine warms from cold to normal operating temperature. The symptom is intermittent, it does not occur all the time. The shift shock usually occurs during 1-2 or 2-3 upshifts, or 3-2 part throttle downshifts.

In most cases, the cause of the shift shock is from the TRANSMISSION CONTROL MODULE (TCM) software calibration. An updated software calibration is available on **Mazda Service Support System (MS3)** to correct the shifting concerns.

#### NOTE:

- UNDER THE MAZDA SPECIAL PROGRAM (MSP03), ALL CURRENT DEALER INVENTORY AND RETAILED VEHICLES FOUND TO BE WITHIN THE ABOVE VIN RANGES, AND PRODUCED BETWEEN APRIL 1, 2003 THROUGH JANUARY 26, 2004, MUST BE INSPECTED AND REPAIRED ACCORDING TO THE INSTRUCTIONS CONTAINED IN THIS SERVICE BULLETIN.
- BEFORE PERFORMING ANY REPAIR, VALIDATE THAT THE VEHICLE IS APPLICABLE TO THIS PROGRAM BY PERFORMING AN "eMDCS WARRANTY VEHICLE INQUIRY" AND VERIFY-ING THE VEHICLE DISPLAYS CAMPAIGN "MSP03". SEE "VEHICLE INSPECTION PROCE-DURE" BELOW.

## **DEALER INVENTORY:**

Inspect and repair all current dealer inventory according to the procedures contained in this service bulletin.

## **RETAIL VEHICLES:**

When a retail vehicle is brought into the dealer for any type of repair or scheduled maintenance, inspect and repair the vehicle according to the procedures contained in this service bulletin.

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**CONSUMER NOTICE**: The information and instructions in this bulletin are intended for use by skilled technicians. Mazda technicians utilize the proper tools/ equipment and take training to correctly and safely maintain Mazda vehicles. These instructions should not be performed by "do-it-yourselfers." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical---including photocopying and recording and the use of any kind of information storage and retrieval system ---without permission in writing.

## VEHICLE INSPECTION PROCEDURE

- 1. Verify the vehicle is within one of the following VIN ranges, AND produced between April 1, 2003 through January 26, 2004:
  - 2003 MPV
    - VIN Range: JM3LW28\*\*30367822 378984
  - 2004 MPV
    - VIN Range: JM3LW28\*\*40500013 518096
- If the vehicle is within one of the above VIN ranges, and produced between April 1, 2003 through January 26, 2004, proceed to Step 1.
- If the vehicle is not within one of the above VIN ranges, return the vehicle to the customer or inventory.
- 1. Perform a Vehicle Status Inquiry using your eMDCS System and inspect the vehicle for an Authorized Modification Label **MSP03** attached to the vehicle's hood.

**NOTE:** Verify the campaign number as the vehicle may have multiple labels.



## eMDCS System - Vehicle Status Inquiry Results

If eMDCS displays:	Campaign Label is:	Action Required:
"Campaign: MSP03 Open"	Present	Contact the Mazda Corporate Dealer Assistance Group at (877) 727-6626 to update vehicle history
	Not present	Proceed to "REPAIR PROCEDURE"
"Campaign: MSP03 Closed"	Present	Return vehicle to inventory or customer
Campaign. MOP 05 Closed	Not present	Complete a label and apply it to vehicle's hood
"Campaign: MSP03 Open" or "Closed" is not displayed	Does not apply	Campaign does not apply to this vehicle. Return the vehicle to inventory or customer

## **REPAIR PROCEDURE**

- 1. Check transaxle fluid level and add fluid as needed.
- 2. Road test the vehicle to confirm the concern.
- 3. Use M-MDS to check for DTCs.
  - If DTC(s) are retrieved, follow the troubleshooting procedures in the Workshop Manual for specific DTCs. If the shift shock concern is still present after repairs are made, proceed to Step 4.
- 4. Write down the customer's radio station pre-sets.
- 5. Disconnect the negative battery cable.
- 6. Remove the TRANSMISSION CONTROL MODULE (TCM) from the vehicle according to the Workshop Manual (Section 05-17 TCM REMOVAL/INSTALLATION).
- 7. Re-flash the TCM according to the following procedures:
  - **NOTE:** M-MDS WILL NOT BE USED to perform TCM reflash. A desktop PC with internet access and one available serial port is required.
    - If PC does not already have flashing software installed, proceed to "PROCEDURE 1: INSTALL-ING FLASHING SOFTWARE". Flashing software only needs to be installed one (1) time on the PC.
    - If using flash kit and flashing software for the first time (after software has been installed), proceed to "**PROCEDURE 2: FIRST TIME TCM RE-FLASH**".
    - If PC has flashing software installed and "PROCEDURE 2: FIRST TIME TCM RE-FLASH" has been competed at least one (1) time, proceed to "**PROCEDURE 3: QUICK RE-FLASH**" for fast re-flashing.

**NOTE:** Complete Steps 8 -17 below, **AFTER** the TCM has been reflashed.

- 8. Reinstall the reprogrammed TCM according to the Workshop Manual (Section 05-17 TCM REMOVAL/ INSTALLATION).
- 9. Reconnect the negative battery cable.
- 10. Road test the vehicle and allow the transaxle to shift through all gears up and down with light throttle, then 1/ 2 throttle, then full throttle.
- 11. Bring the vehicle to a stop.
- 12. Place the gear selector in the "3" position and confirm a 2nd gear start and upshift to 3rd gear; stop again.
- 13. Place the gear selector in "2" position and confirm that 2nd gear is held and no upshift occurs.
- 14. Verify the repair by repeating Step 10, five to six additional times.
- 15. Reset the customer's radio station pre-sets.

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16. Complete the blue "Authorized Modification" label (9999-95-065A-00) with the Campaign number "MSP03" written on the sticker and affix it to the vehicle's hood.

	ON
CAMPAIGN NO:	
DEALER CODE:	
DATE: //	

17. Return the vehicle to the customer.

## PART(S) INFORMATION

Part Number	Description	Qty.	Notes
MT02-K2-001	TCM Flash Kit	1	Additional TCM Flash kits can be purchased from MStore

## WARRANTY INFORMATION

NOTE:

- Repairs performed outside the 48 month/50,000 mile New Vehicle Limited Warranty will require DCSM or DSA authorization.
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	А
Symptom Code	99
Damage Code	99
Process Number	A4423H
Part Number Main Cause	AJ51-18-9E1N
Quantity	0
Operation Number / Labor Hours	XX658XRX / 0.7 Hrs.

# PROCEDURE 1: INSTALLING FLASHING SOFTWARE:

- 1. Turn the PC "ON".
- 2. From "Web Security Logon (WSL)", enter your "Username" and "Password".

Maxda	V
US (English) <u>Mexico (English)</u> <u>Mexico (English)</u> <u>Mexico (English)</u> <u>Canada (English)</u> <u>Canada (Francais)</u> To access Mazda applications and information, complete the following fields:	**Security Information displayed on tl confidential, and is intende employees, and vendors o personal username and pe know your username and pe questions, please contact below:
Username Password (case sensitive) Logon	MNAO Personnel: Contact US Dealer Personnel: Con Administrator (usually the can also grant access to a applications.

3. Select "Service".



4. Select "Mazda Service Support System (MS3)" .



- 5. Search for "MSP03" on MS3 or select View Content -> Campaigns -> MSP -> MSP03.
- 6. Right click "MSP03 TCM Reflash Program".
- 7. Select "Save Target as...".
- 8. Make sure to save to "Desktop"



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My Documents				
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WINDOWS XP

9. Select "Close".

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Downloaded: Download to:	490 KB in 1 min 51 sec C:\WINDOWS\Profiles\ma\rc_nsh.zip
Close this dia	log box when download completes
	The second s

10. **IMPORTANT:** If you have a phone dialer program or any other programs open, make sure to close them now.

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- 11. Click the "right" mouse button on an open area of the desktop.

12. Select "Properties" from the drop down menu.



13. Select the "Screen Saver" tab.



14. Locate the file "reflash.zip" on your desktop and open it.



15. On Windows 95, 98, ME, 2000 and NT, select "Actions" and "Select All".

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16. On Windows 95, 98, ME, 2000 and NT, select "Extract".

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WINDOWS 95, 98, ME, 2000, NT

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17. On Windows 95, 98, ME, 2000 and NT, select "Desktop" and then select "Extract".

∭WinZip - n File Actions	etlash.zip <u>O</u> ptions <u>H</u> elp			
New Name FHEAF Flash0: Flash3;	Extract Extrac	Desktop Des	Extract Cancel Help	Wizard
Selected 3 files,	1,622KB	Total 3 files, 1,622KB		

Welcome to the Compressed (zipped) Folders Extraction Wizard
The extraction wizard helps you copy file from inside a ZIP archive.
To continue, click Next.

On Windows XP, the "Extraction Wizard" will begin. Click "Next>".

Select a Destin Files inside the choose.	ation a ZIP archive will be extracted to the location you
J.	Select a folder to extract files to. Inter will be extracted on a frectory. DNDataNDesktopVrefisit/ Browse Passwor Extracting
	<back next=""> Cancel</back>

On Windows XP, locate the "**Desktop**", and then select "**Next>**". The files will automatically be saved in a folder called "**reflash**" on your desktop.

18. On Windows 95, 98, ME, 2000 and NT, select "X" to close the window.

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l im er	WinZip - I	reflash.zip Options Help			and the second second			an an an Arman a She
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1	Files have been successfully extracted to the following direct or D-\D-la\D extop\vellash The expour extracted files, check the box below: Show extracted files Press finish to continue.
	Back Finish Cancel

On Windows XP: If the "Show extracted files" box is checked when the "Extraction

- 19. The reflash software is now installed.
- 20. Proceed to "PROCEDURE 2: FIRST TIME TCM RE-FLASH".

# PROCEDURE 2: FIRST TIME TCM RE-FLASH:

The figure below identifies the TCM Flash Kit components:



TCM Flash Kit Part Number: MT02-K2-001

NOTE: One kit was previously sent to each dealer. Replacement kits can be purchased on MSTORE.

1	PC equipped with Windows 95, 98, or XP and an RS-232C Serial port
2	Reflash Cube
3	Transmission Control Module (TCM) [not included in kit, remove from vehicle]
4	RS-232C cable
5	110 volt power supply cable
6	On/Off switch
7	TCM connectors

1. Completely "Shut Down" the PC.

2. Turn the Reflash Cube "OFF".

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 Connect RS-232C cable to the Serial port (often identified with IOIOI) on the back of the PC. Use the following figures for the type of PC you have (due to the many different PC configurations, your PC may not match these figures exactly):

## Compaq (connect to Serial Port-B)



## **Dell (connect to Serial Port-1)**



- 4. Connect the Reflash Cube 110 volt power supply cable.
- 5. Ensure the Reflash Cube is "OFF", then turn the PC "ON".

6. Find the folder on the desktop called "reflash" and open it.



7. Open the program called "Flash32r.exe".

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**NOTE:** If you receive the following error or one similar to it, click "OK" and proceed to the next step. The program will continue to function. When the correct COM port is selected during the reflash procedure, this error will not come up again.



8. Select the "Write program" button.

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		0000 SFFFF Read Edit
	Message	
		384KEC 512KEC 256KE
		Special mode
-		Create verify file

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9. Select the program file "FLASH04.BIN", then select "Open".



10. Select the "ROM file" button.

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	Write program	Baudrate
	C:\WINDOWS\Profiles\mazda\Deskton\_afis	38400bps Set
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11. Select the program file "FHEAF46.xho", then select "Open".

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12. Change "End" to "7FFFF".

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13. Select the correct Com port for your type of PC from the drop down menu:

- For Compaq PCs select "Com4"

M32R Hash rom system ver1.50	
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	Create verify file

- For Dell PCs select "Com1"

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- **NOTE:** If you receive an error message for every com port (Com1, Com2, Com3, or Com4), shut off the reflash cube and shut down the PC. Make sure the reflash cube is plugged in securely (or if there are 2 serial ports, try plugging into the other one) and restart the PC and try again. If all the com ports still give an error message, there may be a hardware configuration problem with the PC. Have a computer specialist inspect and repair the PC. Try to perform the procedure using another PC.
- **NOTE:** If you receive the following error or one similar to it, click "OK" and proceed to the next step. The program will continue to function. When the correct COM port is selected during the reflash procedure, this error will not come up again.

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	Error accessing specified device (Error: 2)
-	
1 See	ОК

14. **IMPORTANT:** Verify the following settings.

	M32R flash rom system ver1.50	Baudrate III	38400bps
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		Special mode     Com1	• End = 7 <b>FFFF</b>
	Connect Write Verify	Create verify file	ROM size = auto sele⊡

15. Connect the two (2) Reflash Cube connectors to the Transmission Control Module (TCM).

**NOTE:** THE SUCCESS OF THE REFLASH PROCEDURE WILL DEPEND ON FOLLOWING STEPS 16-22 EXACTLY.



16. Ensure the Reflash Cube is still in the "**OFF**" position.

**NOTE:** If you click the "Connect" button too fast or too slow, you may not establish communication.

	C:\WINDOWS\Profiles\mazda\Desktop\teflash	
<ul> <li>on using the second seco</li></ul>	Write program C:\WINDOWS\Profiles\mazda\Desktop\reat ROM file C:\WINDOWS\Profiles\mazda\Desktop\reat Message	Baudrate 38400bps V Set Block write Block3 V Write Verify Start End 00000 7FFFF Read Edit ROM size auto sele © 384KEC 512KEC 2596KE
		Special mode Com3 Create verity Rie

- 17. Switch the Reflash Cube to the "ON" position.
- 18. Wait 1-second, then select the "Connect" button within 10-seconds.

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## 19. After selecting "Connect":

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- **NOTE:** If the message "Writing program forwarding failure" is displayed in RED text, turn the Reflash Cube "OFF" and repeat Step 16.
- 20. After selecting "Write".

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Write C:\WI ROM I C:\WI C:\WI	program NDOWS\Profiles IIe NDOWS\ rofiles	vmazda\Desktop\refie vmazda\Desktop\refi	Baudrate 38400bps - Block write Block3 - Start End 0000( 7FFFF ROM size au	Set Write Verify Read Edit	ini
			C 384KE© 51	2KEC 256KE le Com1 - y file	

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# 21. After selecting "Verify".

M32B flash rom :	sustem vert 50	e 🗖 📃		
Write program C:\WINDOWS\Pr ROM file C:\WINDOWS\Pr	rofiles/mazda/Desktop/	rella	Baudrate 38400bps V S Block write Block3 V Start End 0000( 7FFFF Re	et rite Verify ead Edit
Verily completio	n		ROM size auto si C 384KE© 512KE Special mode	ele <b>v</b> C 256KE Com1 v

22. Turn Reflash Cube "OFF".



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#### 23. Select "End".

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Write program			38400bps 🔻	Set
C:\WINDOWS\Pn	mies\maza_\Deskto	p\refla	Block write	diama di second
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- 24. Disconnect the TCM.
- 25. Using a permanent marker, write the letter "**N**" and the "**Date of Reflash**" near the part number found on the TCM to identify the new software calibration level.
- 26. Click the "right" mouse button on an open area of the desktop.



27. Select "Properties" from the drop down menu.



#### 28. Select "Screen Saver" tab.



- 29. The TCM Reflash is now complete.
- 30. Return to the Service Bulletin "REPAIR PROCEDURE" section and complete Steps 8 16 before returning the vehicle to the customer.

# PROCEDURE 3: QUICK RE-FLASH:

- 1. Turn the screen saver "OFF" (See Steps 11-13 under "Procedure 1: Installing Flashing Software").
- 2. Open the folder on the desktop called "reflash".
- 3. Open the program "Flash32r.exe".
- 4. Verify the following screen settings:

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- 5. Connect the two (2) Reflash Cube connectors to the Transmission Control Module (TCM).
- 6. Switch the Reflash Cube "ON", wait 1-second, then select "Connect" within 10-seconds.
- 7. Wait for the message "Writing program forwarding completion"
- 8. Select "Write", and wait for the message "Flash-ROM writing completion".
- 9. Select "Verify", and wait for the message "Verify completion".
- 10. Turn the Reflash Cube "OFF".
- 11. Repeat Steps 6 10 for additional TCM's.

**NOTE:** If the procedure is interrupted, turn the Reflash Cube "OFF" and start again from Step 6.

- 12. Select "End".
- 13. Disconnect the TCM.
- 14. Using a permanent marker, write the letter "**N**" and the "**Date of Reflash**" near the part number found on the TCM to identify the new software calibration level.
- 15. Turn the screen saver back "ON" (See Steps 26 28 under "Procedure 2: First Time TCM Re-Flash").
- 16. The TCM Reflash is now complete.
- 17. Return to the Service Bulletin "REPAIR PROCEDURE" section and complete Steps 8 16 before returning the vehicle to the customer.