2008 Mazda6 and RX-8 Tire Pressure Monitoring System (TPMS) SSP85

A. OVERVIEW

On certain 2008 Mazda6 and 2008 RX-8 vehicles, the TPMS Warning Light may illuminate although the tire pressure is normal, due to an issue with a program in the TPMS unit.

B. VERIFY THE VEHICLE NEEDS THE SSP

1. Verify the vehicle is within the following VIN and Production Date Ranges.

Model	VIN Range	Production Date Range
2008 Mazda6	1YV HP**** 85 M00006 – M48995	From May 8, 2007 through May 5, 2008
2008 RX-8	JM1 FE17** 80 214537 – 216619	From September 1, 2007 through February 18, 2008

- If the vehicle is within the above ranges, proceed to Step 2.
- If the vehicle is not within the above ranges, it is not applicable to SSP85.
- 2. Perform a Warranty Vehicle Inquiry using your eMDCS System. Refer to eMDCS System Warranty Vehicle Inquiry Results table.

eMDCS System - Warranty Vehicle Inquiry Results

If eMDCS displays: Campaign Label is: Action to perform:		
SSP85 OPEN	Present	Contact the Mazda Warranty Hotline at (877) 877-6626 op- tion 3, to update vehicle history.
	Not present	Proceed to "C. REPAIR PROCEDURE".
	Present	Return vehicle to inventory or customer.
33F 03 02032D	Not present	Proceed to "D. CAMPAIGN LABEL INSTALLATION".
SSP85 is not displayed	Does not apply	SSP does not apply to this vehicle. Return vehicle to inventory or customer.

C. REPAIR PROCEDURE

1. Procedure before TPMS unit reprogramming.

Update version of Mazda Modular Diagnostic System (M-MDS) to IDS 71.08 for IDS version 71 or later software and IDS 72.03 for IDS version 72 or later software.

NOTE: When performing this procedure, we recommend that a battery charger be installed on the vehicle battery and turned ON to a maximum charge of no more than 20 AMPS to keep the vehicle battery up to capacity. If you exceed 20 AMPS, it could damage the VCM. Refer to Service Bulletin No: 01-030/08 (Last Issued: 06/23/2008) for detail.

2. Reprogram of TPMS unit.

Perform reprogram according to the "Reprogramming Procedure".

NOTE: Even if the reprogram is failed, follow the screen and retry.

REQUEST: Be sure to keep the copy of the following screen on M-MDS along with the repair order and warranty application sheet.

	Module Programming	
If required, obta Note: A reprogr	ain a reprogramming label and complete with the following information amming label is not required on vehicles serviced in North America.	n:
Write today's d Part Number: GAS1-675T2-A	ate on the label.	
Place the comp	leted label in the appropriate position.	

3. Procedure after TPMS unit reprogramming.

- a. Select "Self Test"> Select "All CMDTCs" to check the stored DTCs.
- b. DTC U1900, B2869, B2871 are stored. Erase U1900 by M-MDS.

Follow next step to erase B2869 & B2871 (unable to erase by M-MDS).

NOTE: If the DSC indicator light illuminates and the DSC OFF light flashes.

- 1. Turn the steering wheel to full right lock, then turn it to full left lock.
- 2. Confirm that the DSC OFF light and DSC indicator light goes out.

If any DTCs remain after performing DTC erase, diagnose the DTCs according to the appropriate troubleshooting section of the Workshop Manual.

c. Drive the vehicle until the TPMS warning light turns off (approx 3 minutes).

CAUTION: For safety, disconnect M-MDS before driving.

d. Connect M-MDS. After the vehicle is identified, erase DTC from self test. Verify both B2869 and B2871 are erased, and no other DTC is stored.

REPROGRAMMING PROCEDURE:

Vehicle Identification

- 1. Connect the M-MDS to the DLC-2.
- 2. After the vehicle is identified, go to the next step.
- 3. Select the "2008 MY", then click the Tick icon. (For RX-8)

	Select Vehicle Specification	
	* 2006 <u>MY</u>	
	* 2007 <u>MY</u>	
	* 2008 <u>MY</u>	
SSP85b		

ATTACHMENT II SSP85

- 4. Select "Yes" on this screen, then click the Tick icon. (For RX-8)
 - **NOTE:** Make sure to select "Yes" on the TPM check screen. If "No" is selected, it will be unable to proceed to TPM reprogramming.



5. Confirm the vehicle specification, then click "YES".

← ←	-	
Vehic	de Specification	
Vehicle: RX-8 (North America Specs Engine Type: 13B-MSP High-Power Capacity: 654x2cc <u>PATS</u> : Equipped Transmission: Manual Emission level: California Emission Is this correct?	s.)	
NO	YES VES	-D

6. Click the Tick icon.

	_	
<u>VIN</u> <u>RO</u> Odometer	#########	
A B C D I J K L R S T U	E F G H . , M N O P Q ⇔ V W X Y Z _	1 2 3 4 5 6 7 8 9 0 0

7. Vehicle identification completed.

Vehicle Specification	
Vakiele, MAZDAS (North America / Constal)	
Engine Type: L3	
Capacity: 2.3L	
PATS: Equipped	
Transmission: Manual	
Emission level: Federal Emission	
Transaxle Type: 2WD	
Complete	

Reprogramming

1.	Select "Module	Programming"	from the	toolbox	menu,	then	click the	Tick icon	۱.
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Seft Test DataLogger Module Programming Network Test Body Chassis Powertrain Mazda Vehicle Check - up	
SSP85a	

2. Select "Module Reprogramming> TPM", then click the Tick icon.

i		
	Programmable Module Installation Module Reprogramming PCM	
	Programmable Parameters TPM As - Built	
SSD85h	Tire Pressure Monitor	

3. Make sure that the PC is connected to the internet, then click the Tick icon.

NOTE: This pop up shows up only the first time when reprogramming.

Locating necessary	fil The required calibration file was not found on diagnostic tester. Do you wish to look on the network?	
SSP85i	Diagnostic tester is attempting to copy d	

4. Turn the Ignition switch to ON, then click the Tick icon.

	×
Operator Action	
Set the ignition switch to ON.	
33rog	

5. Wait for a while, then click the Tick icon.

		Ð	-	-	
	Please wait.				
	0s				35
SSP85k				Ţ	

6. Click "YES".

Update Calibration	
The convice test has determined a later configuration is available for the module	
Do you want to continue the programming procedure?	
Current level in Vehicle:	
160507	
Change to:	
1B130A	
	Update Calibration Update Calibration Update Calibration The service tool has determined a later configuration is available for the module. Do you want to continue the programming procedure? Current level in Vehicle: 160507 Change to: 1B130A YES

7. Carefully read the information on the screen, then click "Confirm".

	Important Information	
Please read the followin	g information carefully.	L*
Note: A low battery in the vehicl failure.	e and/or the diagnostic tester may cause a programmin	ıg
 Ensure vehicle battery is 	in good conditon and all accessories are turned off.	
 Connect the battery char session. 	ger to the vehicle before starting a reprogramming	
Make sure the connections betw	veen the diagnostic tester and the vehicle are secure.	
 Do not touch and move t vehicle during reprogram 	he cables connecting the diagnostic tester and the ming.	
The electric cooling fan(s) may	run during the module programming.	
	Confirm	

8. Wait for a while.

NOTE: Even if the reprogram fails, follow the screen prompts and retry.

	Downloading Data Image: Constraint of the second	
SSP85n		V _i I

9. Wait for a while, then click the Tick icon.

	Please wait.		. 3s	
			(
SSP850				

10. Turn the Ignition switch to OFF, then click the Tick icon.

F	Operator Action	
Τυ	rn ignition OFF	
SSP85p		

11. Wait for a while, then click the Tick icon.

	Please wait.			
	ðs		. 40	5
SSP85q				

12. Click the Tick icon.

NOTE: Refer to "Procedure after TPMS unit reprogramming" on page 2 of 12 how to erase the stored DTCs.



13. Click the Tick icon.

NOTE:	Be sure to keep a co	ppy of this screen with	n the repair order and	d warranty application sheet.

	¥	
	Module Progamming	
If required, obtain a i Note: A reprogramm Write today's date or Part Number: GAS1-675T2-A Place the completed	reprogramming label and complete with the follo ng label is not required on vehicles serviced in the label. label in the appropriate position.	owing information: North America.

14. Proceed to "D. CAMPAIGN LABEL INSTALLATION".

D. CAMPAIGN LABEL INSTALLATION

1. Fill out a blue "Campaign Label" (9999-95-065A-06) with Campaign No: "SSP85", your dealer code, today's date.

CAMPAIGN NO:	
DEALER CODE:	
DATE: //	

2. Affix it to the hood or bulkhead as shown:



3. Return the vehicle to customer.