Service Bulletin

Mazda North American Operations
Irvine, CA 92618-2922

Subject:	Bulletin No: 02-002/15
TPMS WARNING LIGHT ON	Last Issued: 03/06/2015

BULLETIN NOTE

- This bulletin supersedes the previous bulletin 02-002/15 issued 01/23/2015 and 02-006/14 issued on 12/22/2014. The APPLICABLE MODEL(S)/VINS, DESCRIPTION, REPAIR PROCEDURE, CALIBRATION INFORMATION and WARRANTY INFORMATION have been revised.
- Changes are noted below in Red beside the change bar.

APPLICABLE MODEL(S)/VINS

2014-2015 Mazda6 vehicles (except Canada and Mexico) with VINs between JM1 GJ1 ****** 100027-225009 (produced between October 25, 2012 - December 01, 2014)

2016 Mazda6 vehicles with VINs between JM1 GJ1 ****** 400011-412885 (produced between November 24, 2014 - February 11, 2015)

DESCRIPTION

Except Canada and Mexico

After performing recall campaign 8014J, or the vehicle VIN is not applicable to 8014J, some vehicles may experience Tire Pressure Monitoring System (TPMS) warning light on even if the TPMS system has been properly initialized at the specified tire air pressure. This may be caused by improper tire air pressure detection by the TPMS system on certain types of road surfaces.

Canada and Mexico

Some vehicles may experience Tire Pressure Monitoring System (TPMS) warning light on even if the TPMS system has been properly initialized at the specified tire air pressure.

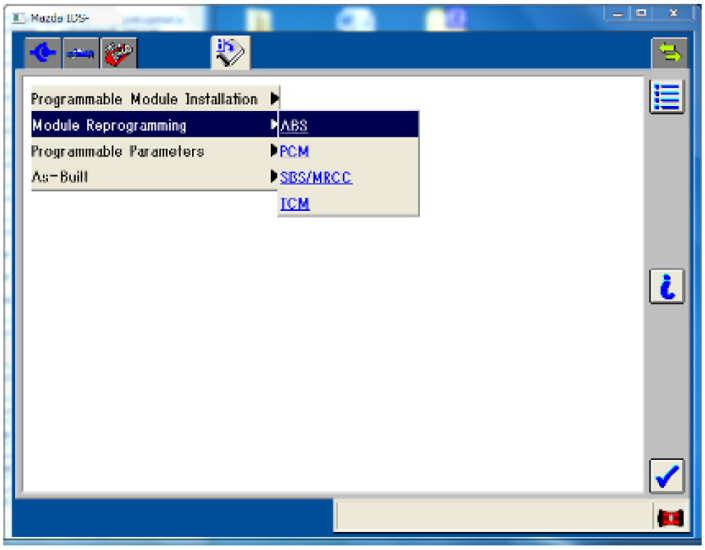
Customers having this concern should have their vehicle repaired using the following repair procedure.

REPAIR PROCEDURE

1. Verify that the recall campaign 8014J is closed or not applicable for the vehicle (Except Canada and Mexico).
2. Reboot the IDS to clear memory before reprogramming.
3. Using IDS 94.02 or later software, reprogram the ABS module to the latest calibration following the “Module Reprogramming” procedure.

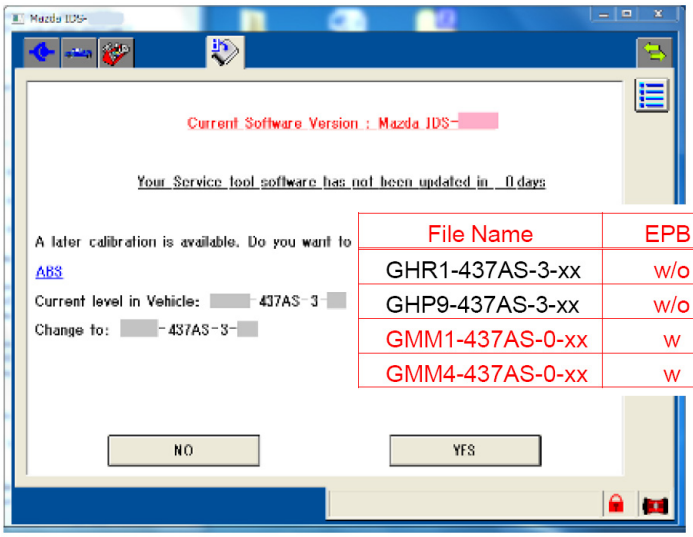
   NOTE: ABS module reprogramming may fail if VCM cable connections are poor and/or battery voltage is low. For details, refer to “SERVICE CAUTION FOR ABS MODULE REPROGRAMMING”

a. Select “Module Reprogramming”, then select “ABS”.



b. The following screen will be displayed:
Click “YES” and follow the M-MDS instructions to reprogram the ABS module.

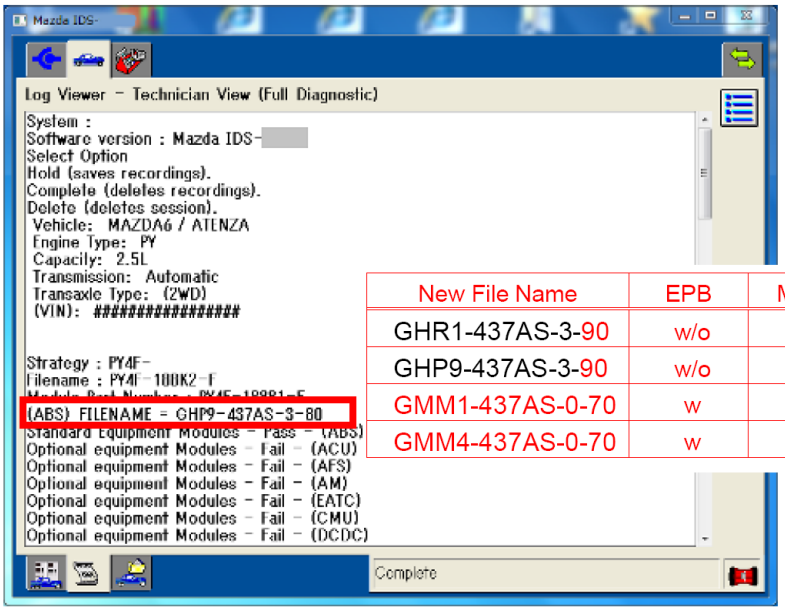
If the message “No later calibration is available on the system for this ABS” is displayed, the ABS module is already at the latest calibration. “Current level in Vehicle” will show the new file name. This service bulletin does not apply.



File Name	EPB	MRCC
GHR1-437AS-3-xx	w/o	w
GHP9-437AS-3-xx	w/o	w/o
GMM1-437AS-0-xx	w	w
GMM4-437AS-0-xx	w	w/o

NOTE: If reprogramming stops before completion, refer to “SERVICE CAUTION FOR ABS MODULE REPROGRAMMING”

c. After reprogramming, remove the session. Then, open a new session again and go to the "Log Viewer" screen on which the programmed file name is displayed as shown in figure below. If the new file name matches the list, the reprogramming has been successfully completed.



New File Name	EPB	MRCC
GHR1-437AS-3-90	w/o	w
GHP9-437AS-3-90	w/o	w/o
GMM1-437AS-0-70	w	w
GMM4-437AS-0-70	w	w/o

NOTE:

- After reprogramming, communication error related DTCs may be stored. This is a normal operation. Delete these DTCs.

Possible DTCs:

U0155:00-28	EATC - Communication error with instrument cluster
U2300:54-28	EATC - Configuration error (data not received)
U0155:00-08	R_BCM - Communication error with instrument cluster
U0100:00-28	BSML - Communication error with PCM
U0155:00-28	BSML - Communication error with instrument cluster
U0214:00-28	BSML - Communication error with start stop unit
U0100:00-28	BSMR - Communication error with PCM
U0155:00-28	BSMR - Communication error with instrument cluster
U0214:00-28	BSMR - Communication error with PCM
U0316:09-08	SBS/MRCC - Error signal received from DSC HU/CM
C0023:62-08	ABS - Brake light/Brake switch

- In some cases, the ABS warning light may illuminate and the engine will not shut off by one-press of the engine start/stop button. To correct this concern, disconnect the ABS/DSC 30A fuse for 10 seconds.

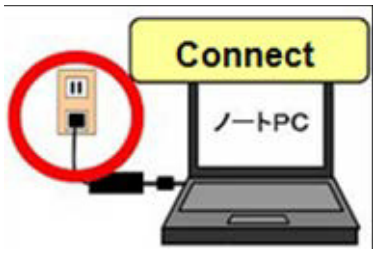
IMPORTANT INFORMATION FOR MODULE PROGRAMMING

- Always update the IDS tool first, then follow on-screen instructions to download the needed calibration file for ABS module reprogramming.
- It is not necessary to remove any fuses or relays during ABS module reprogramming when the IDS screen prompts you to do so. You may accidentally stop power to one of the ABS module terminals and cause the ABS module to be blanked, or you may receive error messages during the IDS reprogramming procedure.
- IDS shows the calibration part numbers after programming the ABS module.
- Please be aware that ABS module calibration part numbers and file names listed in any Service Bulletin may change due to future releases of IDS software, and additional revisions made to those calibrations for service related concerns.
- When reprogramming an ABS module, IDS will always display the “latest” calibration P/N available for that vehicle. If any calibration has been revised/updated to contain new information for a new service concern/issue, it will also contain all previously released calibrations.

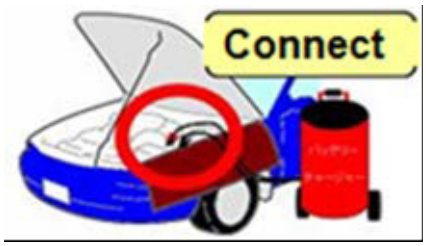
SERVICE CAUTION FOR ABS MODULE REPROGRAMMING

NOTE: Poor connection between the vehicle and M-MDS and/or low voltage may result in abnormal termination and/or ABS data corruption.

a. Make sure the following connections are secured. Do NOT touch the VCM and DLC cable. This may cause electrical noise and connection disruption.
   - Between the vehicle-side connector and the DLC cable.
   - Between the PC-side connector and USB port of PC.



b. Connect AC adapter to the PC in order to stabilize voltage fluctuation during reprogramming.
   Do NOT use vehicle battery outlet as power source for the PC.
c. When performing this procedure, we recommend using the “Power Supply” mode in the Battery Management System to keep the vehicle battery up to capacity. If a different charger is used, make sure it does not exceed 20 AMPS. If it exceeds 20 AMPS, it could damage the VCM.



Before reprogramming, pay attention to the vehicle condition and PC environment.

a. Turn off all the electrical loads, especially the A/C (blower), audio, rear defogger and headlights.
b. Perform self-test and verify no DTC is stored. If any DTC is stored, fix the concern and delete the DTC.
c. Disconnect all non-genuine aftermarket accessories.
d. Terminate all programs other than IDS on the PC. This may extend reprogramming, PC may freeze or it may cause other problems.
e. Verify that the latest IDS software is installed on the PC.
f. Perform reprogramming under proper Internet environment. Especially when using wireless network, make sure the connection is strong.
g. Make sure to keep proper free space on the PC’s hard disc. Insufficient free space (less than 1 GB) may result in PC freeze during reprogramming.

Trouble Shooting Procedure for ABS Module Reprogramming
Before performing the following trouble shooting procedure, check all VCM cable connections and the battery voltage.

Step	Inspection		Action
1	Will the IG shut off by one-press of the engine start/stop button?	Yes	Remove the ABS/DSC 30A fuse for 10 seconds. Install the fuse and go to Step 2.
		No	Disconnect the battery negative terminal for 1 minute. Connect the battery terminal and go to Step 2.
2	Turn IG ON and wait a few seconds. Go to Step 3.		
3	Does TSC/DSC indicator light turn off normally?	Yes	Try the reprogramming again. Go to Step 4.
		No	Replace the ABS module.
4	Is the reprogramming complete?	Yes	Troubleshooting is completed.
		No	Repeat the inspection from Step 1 again. - If the reprogramming cannot be completed on the second round of reprogramming, replace the ABS module.

4. After performing the ABS module reprogramming procedure, adjust all four tire pressures to the specification and initialize the TPMS using IDS.

   NOTE:
   - ABS module reprogramming does not reset TPMS misuse prevention history.
   - DO NOT press the TPMS set switch after ABS module programming. This may cause the vehicle to enter the TPMS misuse prevention mode.

   Select the following items from the initial screen of the IDS.
   a. Select “Chassis”
   b. Select “ABS/DSC”
   c. Select “TPMS Reset”
5. Verify the repair by starting the engine and making sure there are no MIL illumination or abnormal warning lights present.

   NOTE: After ABS module reprogramming, it is no longer necessary to road test the vehicle to “relearn” KAM (Keep Alive Memory).

CALIBRATION INFORMATION

File Name	Note 1	Note 2
GHR1-437AS-3-90	With MRCC*	Without EPB**
GHP9-437AS-3-90	Without MRCC*	
GMM1-437AS-0-70	With MRCC*	With EPB**
GMM4-437AS-0-70	Without MRCC*	

* Mazda Radar Cruise Control (MRCC)

** Electric Parking Brake (EPB)

WARRANTY INFORMATION

NOTE:

- This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair.
- This repair will be covered under Mazda's New Vehicle Limited Warranty term.
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	64
Damage Code	9W
Part Number Main Cause	7777SPK05
Quantity	0
Operation Number / Labor Hours:	XXL2HXFX / 0.3 Hrs.