

<b>Subject:</b> CHECK ENGINE LIGHT AND A/T WARNING LIGHT ON WITH DTC P0722:00	<b>Bulletin No:</b> 05-004/15
	<b>Last Issued:</b> 04/02/2015

## NOTE

- **This bulletin has been revised to STOP TCM reprogramming of 2014 CX-5 with 2.5L and 2014 Mazda6 without i-ELOOP. Otherwise, shifting problems will occur.**

## BULLETIN NOTE

- This bulletin supersedes the previous bulletins 05-004/13, issued on 05/24/13. The REPAIR PROCEDURE and CALIBRATION INFORMATION have been revised.
- Changes are noted below in Red beside the change bar.

## APPLICABLE MODEL(S)/VINS

2012-2013 Mazda3 automatic transaxle vehicles with VINs between JM1BL\*\*\*\*\*732088 - 814225 (produced up to March 26, 2013)

2014 Mazda6 automatic transaxle vehicles with VINs between JM1GJ\*\*\*\*\*100001 - 116903 (produced up to March 26, 2013)

2013-2014 CX-5 automatic transaxle vehicles with VINs between JM3KE\*\*\*\*\*148076 - 335942 (produced up to March 26, 2013)

## DESCRIPTION

Some customers may complain of a Check Engine Light and A/T Warning Light ON when starting the engine. At the same time, an Engine Inspection Required message is displayed on the LCD. DTC P0722:00 is stored in the transmission control module (TCM) memory.

- DTC P0722:00 (open circuit in output speed shaft circuit)

The TCM control logic has been changed to eliminate this concern.

## REPAIR PROCEDURE

1. Confirm Snapshot Data by Self Test function using Mazda Modular Diagnostic system (M-MDS). If the data meets the following conditions, proceed to the next step. If NOT, this service information is not applicable. Check the vehicle according to the MS3 online instructions or the Workshop Manual.
  - TSS: More than 1,500 rpm
  - OSS: 0 rpm
2. Reboot the IDS to clear memory before reprogramming.

- Using IDS **94.04** or later software, reprogram the TCM to the latest calibration (refer to “Calibration Information” table) by following the “Module Reprogramming” procedure.

**CAUTION:**

- Although there is a TCM reflash available for 2014 CX-5 with 2.5L and 2014 Mazda6 without i-ELOOP, DO NOT reflash these TCMs. Otherwise, shifting problems will occur.**
- For 2014 CX-5 with 2.5L and 2014 Mazda6 without i-ELOOP, replace the control valve body according to the instructions on MS3 online or the Workshop Manual (section 05-17 CONTROL VALVE BODY REMOVAL/INSTALLATION).**

**NOTE:**

- Verify the current TCM file name in the vehicle by the log view screen. If it is the same as found in the chart below (or later), it is not necessary to reprogram the TCM.
- Always update the IDS tool first, then follow the on-screen instructions to download the calibration file for TCM reprogramming.
- Refer to “Service Caution for reprogramming” on MS3 IDS Page.
- After reprogramming, verify the file name matches with the chart below.

**NOTE:**

- Always update the IDS tool first, then follow on-screen instructions to download the needed calibration file for TCM reprogramming.
- It is not necessary to remove any fuses or relays during TCM reprogramming when the IDS screen prompts you to do so. You may accidentally stop power to one of the TCM terminals and cause the TCM to be blanked, or you may receive error messages during the IDS reprogramming procedure.
- IDS shows the calibration part numbers after programming the TCM.
- Be aware that TCM 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 a TCM, 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.
- On some models, the meter illumination goes out during TCM reprogramming. This is a normal condition.
- Start/Stop button vehicles only: DO NOT press the start/stop button during the reprogramming process.**
- 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.**

- After performing the TCM reprogramming procedure, clear DTCs.
- After clearing DTCs, start the engine and confirm that no warning lights stay on.

**NOTE:**

- If any DTCs should remain after performing DTC erase, diagnose the DTCs using MS3 online instructions or Workshop Manual.
- After TCM reprogramming, it is no longer necessary to road test the vehicle to “relearn” KAM (Keep Alive Memory).

- After reprogramming is complete, perform the Initial Learning Procedure. Refer to MS3 online instructions or Workshop Manual section 05-17.

## CALIBRATION INFORMATION

### 2013 CX-5

Engine	Drive	File Name	Note
2.0L	2WD	PE02-21PS1-G	Without kick-down switch
2.0L	2WD	PEY1-21PS1-A	With kick-down switch
2.0L	4WD	PE1B-21PS1-G	Without kick-down switch
2.0L	4WD	PEY2-21PS1-A	With kick-down switch

### 2014 CX-5

Engine	Drive	File Name
2.0L	2WD	PEY5-21PS1-A
2.0L	4WD	PEY6-21PS1-A

### Mazda3

Engine	File Name
2.0L	PEY0-21PS1

### Mazda6

Engine	File Name	Notes
2.5L	PYY3-21PS1	With i-ELOOP only

## 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 Federal Emission Long Term Warranty.
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	6X
Damage Code	9W
DTC Code	P0722
Part Number Main Cause	5555-RP-TCM
Quantity	0
Operation Number / Labor Hours	XXJ7AXFX / 0.3 Hrs.