

# Service Alert

Mazda North American Operations  
Irvine, CA 92618-2922



<b>Subject:</b> <b>TELEMATICS COMMUNICATION UNIT (TCU) REPLACEMENT / ACTIVATION PROCEDURE</b>	<b>Service Alert No.: SA-047/25</b>
	<b>Last Issued : 10/07/2025</b>

## BULLETIN NOTES

This service alert supersedes the previously issued service alert listed below. The changes are noted in Red text.

Previous Service Alert	Date(s) Issued:
SA-070/24	11/04/2024 and 09/12/24
SA-025/23	12/05/23 and 04/21/23
SA-034/22	05/20/22
SA-004/21	09/13/21, 06/02/21, 05/24/21 and 01/19/21
SA-010/20	06/29/20, 06/01/20, 05/08/20, 04/29/20 and 01/15/20

## APPLICABLE MODEL(S)/VINS

2019-2026 Mazda3	2021-2025 CX-5	2022-2023 MX-30	2024-2026 CX-90	2025-2026 CX-70
2020-2026 CX-30	2021-2023 CX-9	2023-2026 CX-50	2024-2026 MX-5	

## DESCRIPTION

When the Telematics Control Unit (TCU) replacement is necessary due to a failure, use MDARS to activate the new TCU after replacement.

Use the information in this service alert to initialize the new TCU until the procedure on MGSS is updated.

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**CAUTION:**

- DO NOT swap TCU with another vehicle as the TCU is VIN locked after activation. A TCU swap with another vehicle will disable Connected Services on both vehicles.
- If TCU activation is not performed, connected vehicle functions will not operate. This will have a negative impact on the customer because they will need to return to the dealer for repairs.
- If the Telematics Control Unit (TCU) replacement is necessary, check "[Vehicle Communication Line Status Reference](#)" status detail first.
  - The TCU can only be replaced under the following "Status Detail" conditions:
    - [Open Completed \(OK\)](#)
    - [Closed Completed \(OK\)](#)
  - If the TCU is replaced under the following "Status Detail" conditions, the customer may not be able to enroll into the replacement TCU.
    - Processing (NG)
    - Request Failed (NG)
    - Open Failed (NG)
    - Flag Setting Failed (NG)
    - Close Failed (NG)

**TCU Activation**

## 1. Install the new TCU.

- Mazda3 - [TELEMATICS COMMUNICATION UNIT REMOVAL/INSTALLATION](#)
- CX-30 - [TELEMATICS COMMUNICATION UNIT REMOVAL/INSTALLATION](#)
- CX-5 - [TELEMATICS COMMUNICATION UNIT REMOVAL/INSTALLATION](#)
- CX-9 - [TELEMATICS COMMUNICATION UNIT REMOVAL/INSTALLATION](#)
- MX-30 - [TELEMATICS COMMUNICATION UNIT REMOVAL/INSTALLATION](#)
- CX-50 - [TELEMATICS COMMUNICATION UNIT REMOVAL/INSTALLATION](#)
- CX-90 - [TELEMATICS COMMUNICATION UNIT REMOVAL/INSTALLATION](#)
- MX-5 - [TELEMATICS COMMUNICATION UNIT REMOVAL/INSTALLATION](#)
- CX-70 - [TELEMATICS COMMUNICATION UNIT REMOVAL/INSTALLATION](#)

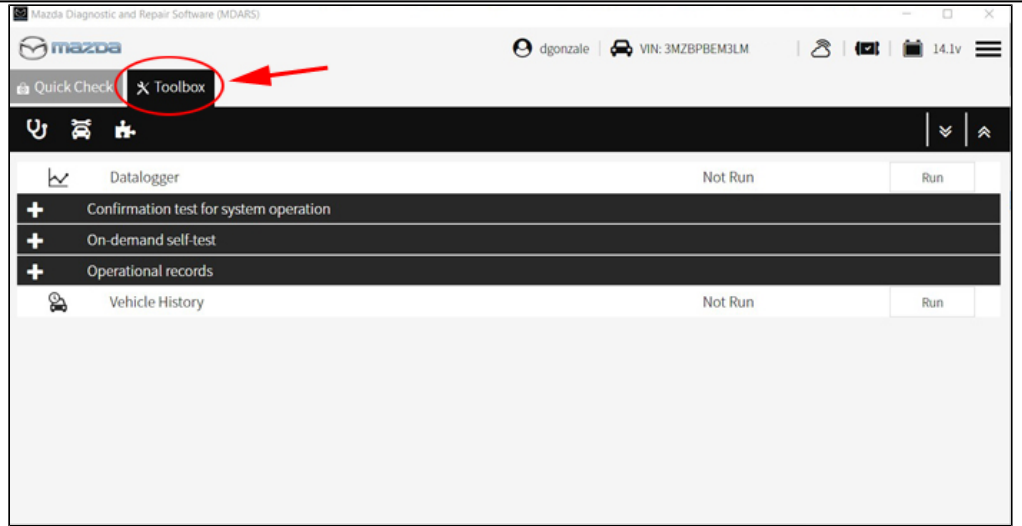
2. Use the DCA8000 battery charger SST to maintain battery voltage. Go to [SA-034/21](#).3. Confirm M-MDS hardware that is in good working condition. Go to [SA-066/20](#).

## 4. Turn the ignition ON (engine ON or OFF).

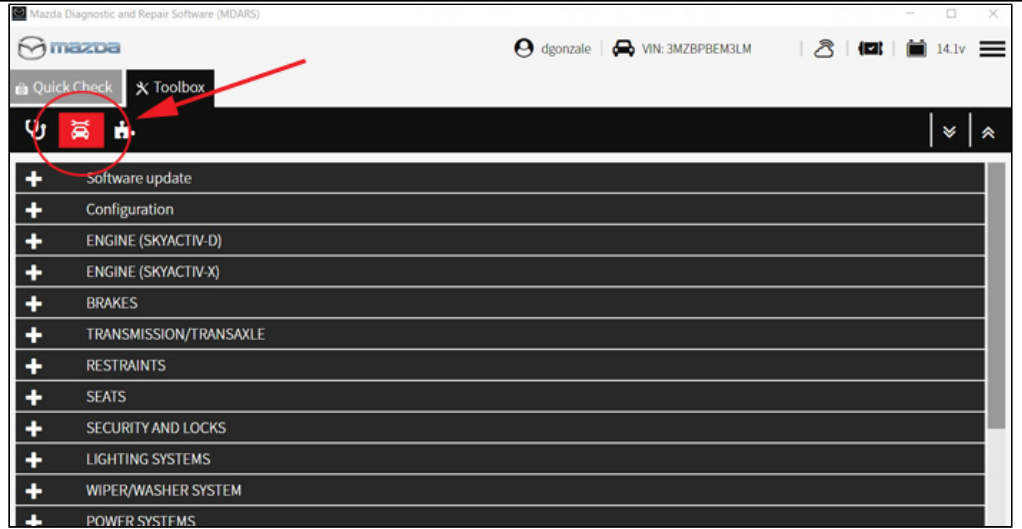
## 5. Connect MDARS to the vehicle.

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6. Select "Tool Box".

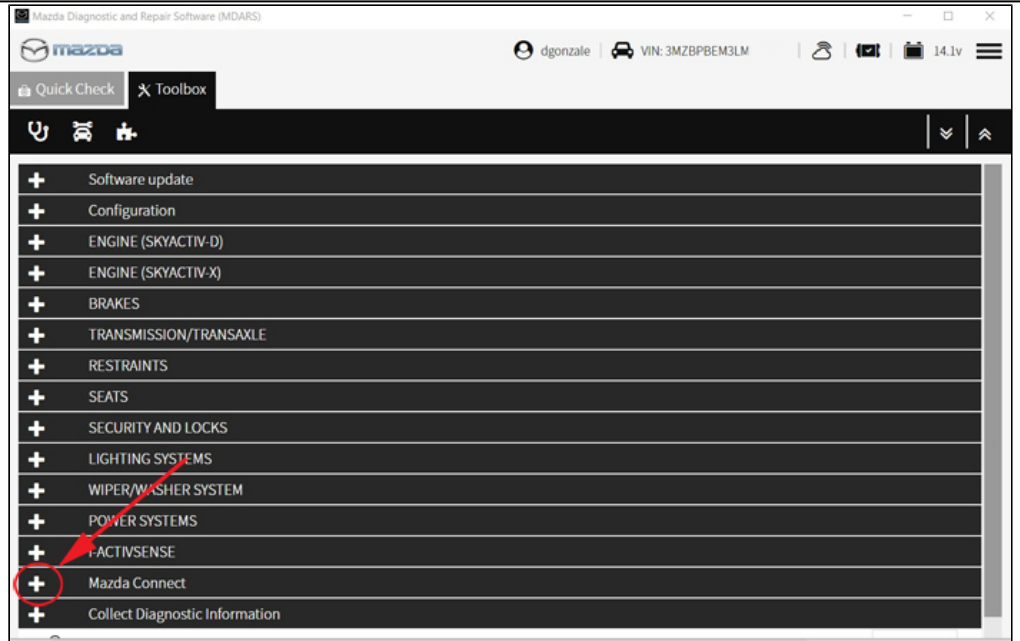


7. Select the repair icon.



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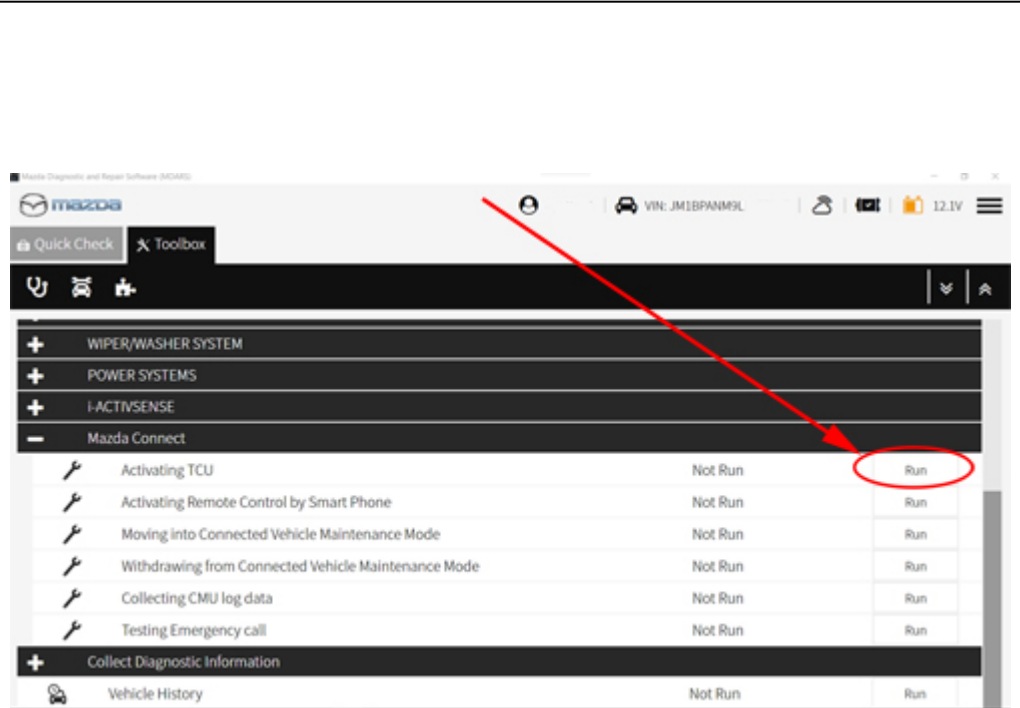
8. Select "Mazda Connect"



9. Select Activating TCU (links TCU to server) -> "Run". Wait for "initialization complete" message.

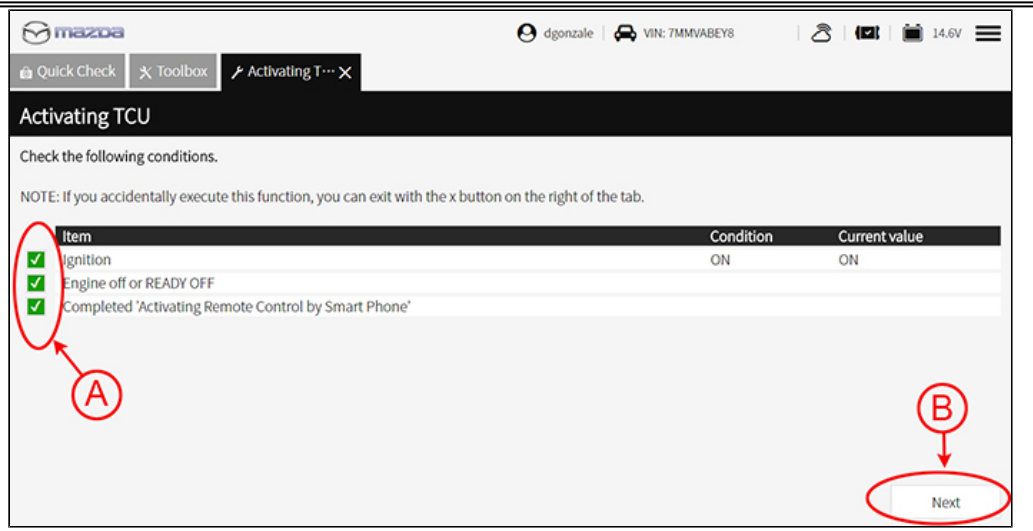
**NOTE:** MDARS may show "Incomplete". This may be caused by:

- Advanced key is not in the vehicle.
- Connected vehicle maintenance mode is enabled.
- Pacemaker radio wave interference prevention is enabled. See [SECURITY AND LOCKS-RELATED PARTS PROGRAMMING \[SECURITY AND LOCKS\]](#)
- key transmitter power saving function is enabled. See [SA-020/21](#).

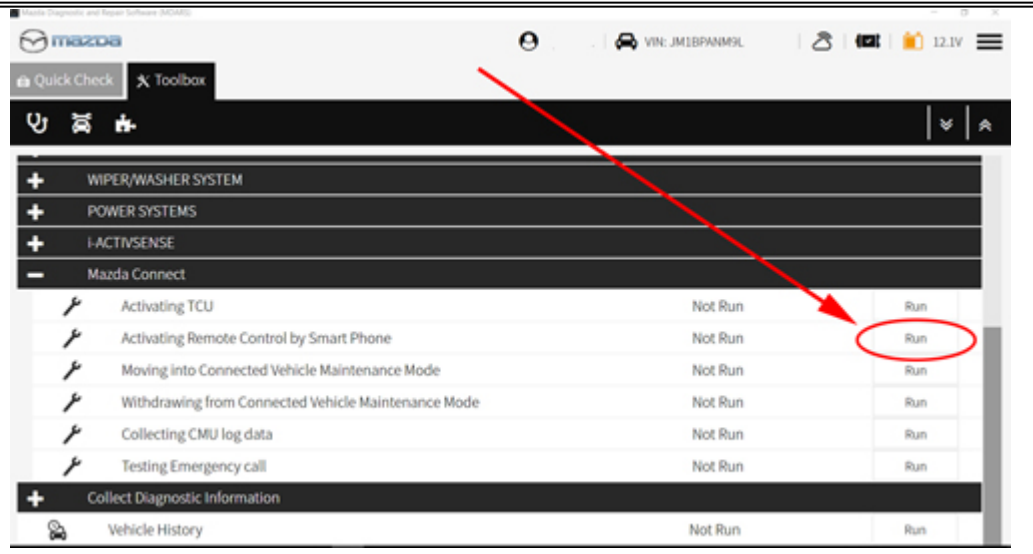


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10. Check the Items as shown (A) then select "Next" (B)




11. Select Activating Remote Control by Smart Phone (links TCU to BCM) -> "Run". Wait for "initialization complete" message.



12. Turn Ignition OFF and wait at least 2 minutes.  
13. Turn Ignition ON and then check reception strength.

If customer was previously enrolled, reception strength icon will show normal



If customer was not previously enrolled, reception strength icon will show "X", this is a normal Deactivation Mode function.

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Customer/Dealer can activate CV services anytime via MyMazda app (there just might be a slight delay in making the backend connection since it was temporarily deactivated).

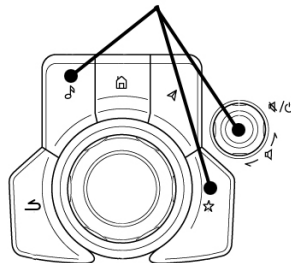
14. Clear DTC's

**NOTE:**

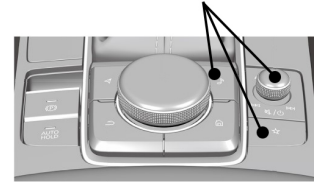
- New TCU replacement part may not have the latest software version installed. See Parts Information.
- Perform the following steps to confirm TCU software version is at latest version listed on MGSS -> Infotainment/TCU -> TCU updates.

a. Press and hold the Volume knob, then press and hold the Entertainment and Favorite buttons at the same time for 3-5 seconds and the Factory/Service Inspection screen will appear.

**CX-5 and CX-9**



**CX-30, Mazda3, MX-30, CX-90 and CX-70**



b. Select Service Information.

**Factory/Service Inspection**

- Diagnostic Test
- Functional Inspection/Adjustment
- Service Information**
- Device Program Update
- End Diag Mode

c. Select TCU Linked information.

**Service Information**

- Connected Device Information
- Backup Restore
- Personal Information Deletion
- TCU Linked Information**

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d. Scroll down to TCU Software Version and confirm the software version is at the latest version as listed on MGSS.

**Is the TCU software version correct?**

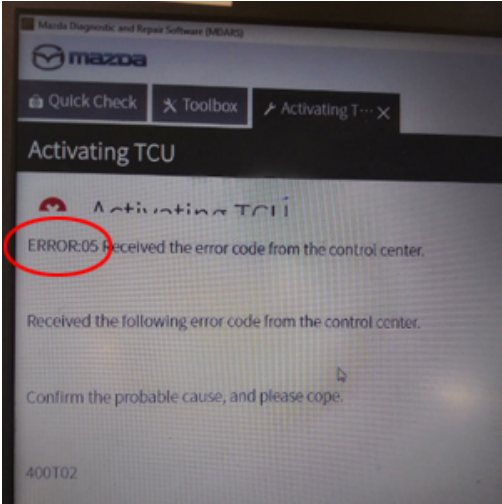
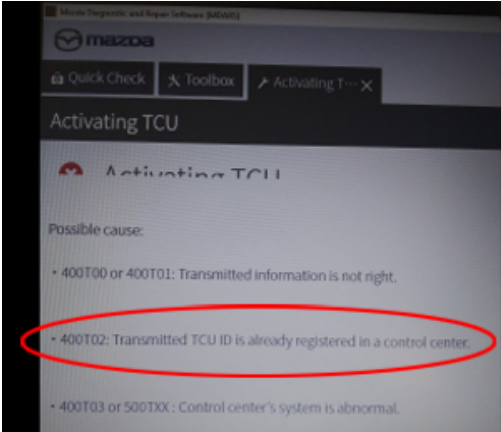
- **Yes:** Repair is complete.
- **No:** Go to MGSS -> Infotainment/TCU -> [Telematics Communication Unit \(TCU\) Updates](#) to update the TCU software version.
  - See Warranty Information for software update payment.

TCU Linked Information	
CMU Chip Serial No.	: AEA1EQAMF1
TCU TEL Number	: 5256201320
TCU MEID	: 35769109957232
<b>TCU Software Version</b>	: 00010020 (CX-5, CX-9) : 00010004 (Mazda3, CX-30)
Connection Server	: Public Server
Flag Information	: 1111

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**NOTE:**

- If DTC U2050:55-TCU (Activation of remote control not implemented) is stored, go to TSB [09-013/20 - DTC U2050:55 STORED AFTER REPLACING OR REPROGRAMMING TCU](#).
- If the TCU was not replaced and MDARS shows error code 400t02 and/or ERROR:05, TCU activation was previously completed. Ignore these errors as TCU activation is not required.

ERROR:05	Error code 400t02
 <p>The screenshot shows the 'Activating TCU' screen in the Mazda Diagnostic and Repair Software (MDARS). A red circle highlights the text: 'ERROR:05 received the error code from the control center.' Below this, it says 'Received the following error code from the control center.' and 'Confirm the probable cause, and please cope.' The error code '400T02' is visible at the bottom left.</p>	 <p>The screenshot shows the 'Activating TCU' screen in the Mazda Diagnostic and Repair Software (MDARS). Under the 'Possible cause:' section, a red circle highlights the text: '- 400T02: Transmitted TCU ID is already registered in a control center.' Other causes listed include '- 400T00 or 400T01: Transmitted information is not right.' and '- 400T03 or 500TXX: Control center's system is abnormal.'</p>

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**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
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	64
Damage Code	9W
Part Number Main Cause	**** -67-CM0 *
Quantity	1
Operation Number / Hours (For Replacement)	T0524XRX 2019-2021 Mazda3 / 0.4 Hrs. (built before 7/1/21) 2021-2024 Mazda3 / 0.5 Hrs. (built on or after 7/1/21) 2020-2021 CX-30 / 0.5 Hrs. (built before 7/1/21) 2021-2024 CX-30 / 0.6 Hrs. (built on or after 7/1/21) MX-30 / 0.5 Hrs CX-5 / 0.6 Hrs. <b>CX-50 / 0.6 Hrs.</b> CX-9 / 0.7 Hrs. MX-5 / 0.5 Hrs
	T0533XRX CX-90 / 0.5 Hrs. CX-70 / 0.5 Hrs.
Operation Number / Hours (For Reprogramming)	T0524XRT / 0.4 Hrs. (Max)

**NOTE:**

- All claims will pend for adjuster review.
- TCU replacement with older software version and/or without proper troubleshooting documentation may result in a warranty claim debit.

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