Service Alert

Mazda North American Operations Irvine, CA 92618-2922



Subject:

CONNECTED VEHICLE SYMPTOM TROUBLESHOOTING

Connected Vehicle Symptom Troubleshooting

Last Issued: 03/01/2023

BULLETIN NOTES

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

Previous TSBs:	Date(s) Issued:
SA-009/23	02/06/23
SA-017/22	12/13/22, 10/10/22, 08/25/22, 05/06/22, 04/04/22
SA-013/21	12/22/21, 10/13/21, 09/14/21, 05/11/21, 04/27/21, 03/15/21, 02/22/21, 02/08/21 and 02/02/2021
SA-031/20	12/09/20,11/30/20, 11/06/20, 10/28/20, 06/16/20, 06/05/20, 06/01/20, 05/18/20, 04/14/2020, 04/02/20, 03/11/20 and 02/27/20

APPLICABLE MODEL(S)/VINS:

2019-2023 Mazda3 2020-2023 CX-30 2021-2023 CX-5 2021-2023 CX-9 2022-2023 MX-30 2023 CX-50

DESCRIPTION

Some customers may complain about any of the following:

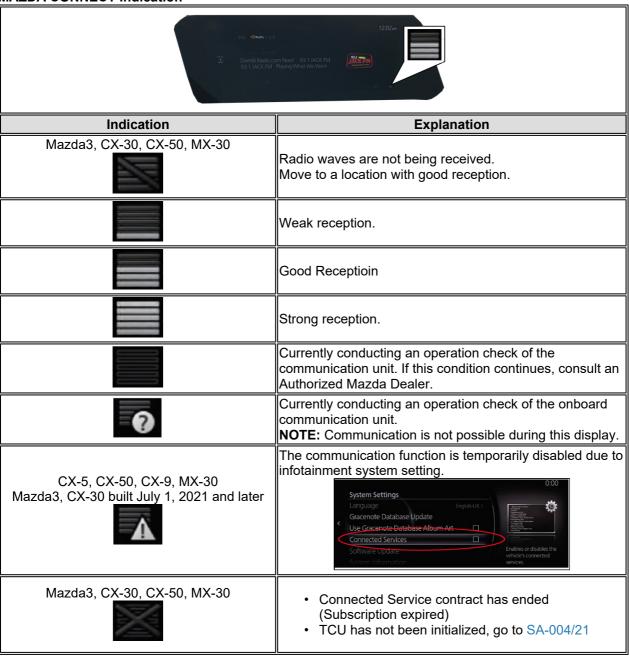
- 1. Infotainment Center Display does not provide the Authorization Code (OTP) during the MyMazda App Connected Vehicle enrollment.
- 2. Remote function(s) inoperative.
 - Engine Start / Stop
 - Door Lock / Unlock
 - Lights ON / OFF
- 3. MAZDA CONNECT connected vehicle reception strength icon shows "X" or "\".

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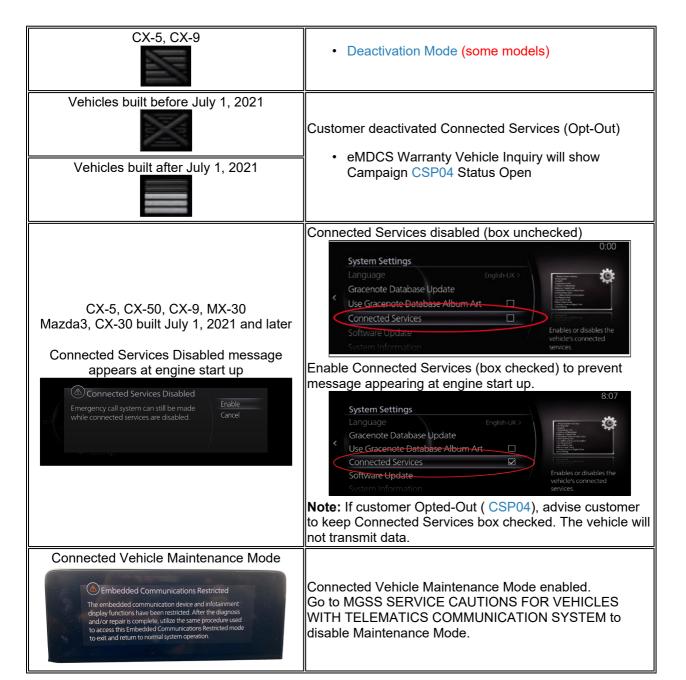
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- MAZDA CONNECT Indication
- Remote Engine Start Will Not Function
- · Remote Engine Start Function Will turn engine OFF
- · Deactivation Mode

MAZDA CONNECT Indication



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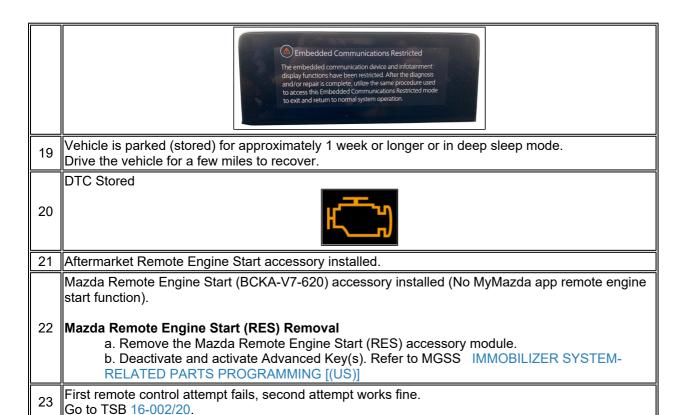


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Remote Engine Start Will Not Function under the following conditions

Item	Condition		
1	Vehicle battery voltage low		
2	Automatic Transmission shift position except "P"		
3	Vehicles equipped with manual transmission		
4	Vehicle speed above 3 mi/h (5 km/h)		
5	Brake pedal switch malfunction		
6	Engine has been running by remote engine start function		
Engine started by remote engine start more than 2 consecutive times while the vehicle is not on the vehicle must be driven 1-mile or 24-hours must pass from the last successful Remote En Start for the use count to reset.			
8	2021 Mazda3, 2021 CX-30, CX-50, MX-30: Vehicle's electrical control area network (CAN) is in "Sleep Mode" Low Battery Risk Start Vehicle to Charge 12V Battery Or Or		
==	A registered key is detected in the vehicle		
10	Brake pedal switch detects brake application		
11	Low fuel warning		
12	Engine starts, then turns OFF due to abnormal high engine rpm detected. (Engine rotation over 3000 rpm continued for more than 0.2[s])		
13	No engine rpm detected after sending engine start request. (Engine rotation 0 rpm continued for more than 0.2[s])		
14	When the CAN data signal for engine shut off is present (e.g.: door ajar signal)		
15	After 10 second maximum cranking time		
16	Burglar alarm status is "Alarm" and "Alarm stand by" (CAUTION - DO NOT enable, see Theft- Deterrent System section in SA-012/20)		
17	Room fuse blown/missing		
18	Connected Vehicle Maintenance Mode enabled (Restricted Transmitting Mode in MDARS)		

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Remote Engine Start Function Will turn engine OFF under the following conditions

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CSP04 Status Open

Tender the following conditions		
Item	Condition	
1	Vehicle door(s) opened	
2	Vehicle trunk opened	
3	Vehicle hood opened	
4	Ignition switch push button "ON" detected	
5	Remote engine STOP request	
6	Brake pedal switch detects brake application	
7	DTC Stored	
8	Engine will stop running automatically after 15 minutes for safety, security and emissions.	

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Deactivation Mode

Some new owners may chose not to enroll into Connected Vehicle (CV) Services. If this happens, the Telematics Communication Unit (TCU) will switch to Deactivation Mode.

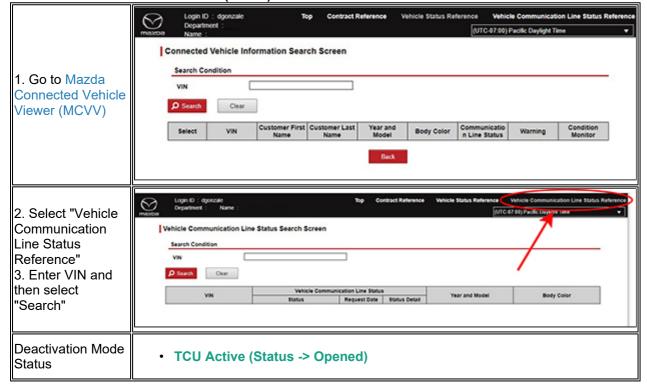
Any of the following conditions will initiate Deactivation Mode:

- Customer does not enroll into CV services within 5 days from Retail Date (RDR/Warranty Start Date).
- · Customer unsubscribed from CV services.
- · Free trial period has expired.

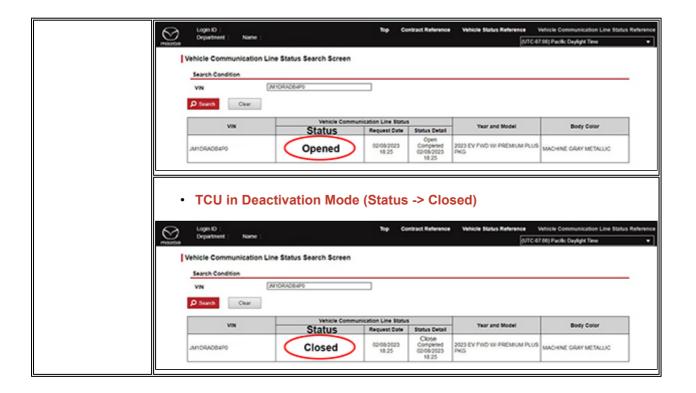
NOTE:

- 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).
- When TCU is in Deactivation Mode, infotainment Over-the-Air (OTA) Connectivity Master Unit (CMU) software
 update is not possible (disabled).
- · Prior to Retail Date, the TCU is active.

Mazda Connected Vehicle Viewer (MCVV) Deactivation Mode Status:



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REPAIR PROCEDURE

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.

REPORATION:

- 1. Confirm that the TCU is at the latest software level. Go to Telematics Communication Unit (TCU) Updates
- 2. Go to eMDCS Vehicle Inquiry and confirm the following campains are not shown or closed:
 - CSP06
 - CSP07
 - SSPC7
 - DRW41
- 3. Go to eMDCS Vehicle Inquiry and confirm CSP04 is not shown.
- 4. Confirm the customer's phone and vehicle have good to strong reception during the concern as shown in the table below.



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- If the reception is weak, move the vehicle to a location where the reception is good to strong as shown in the table, then try to get the Authorization Code and/or operate the remote functions before proceeding to the Repair Procedure if there is still an issue.
- If the reception is good to strong, proceed to Connected Vehicle Troubleshooting below.

NOTE: Vehicles stored for long periods may loose GPS clock sychronization. If the vehicle is stored for a long period, test drive the vehicle to give the GPS clock time to sychronize before enrolling or testing connected vehicle functions.

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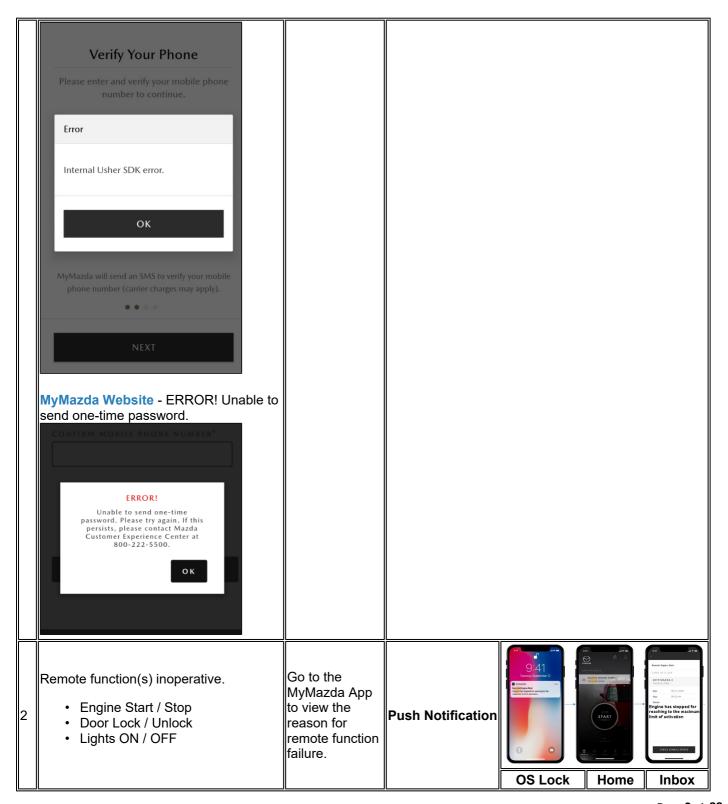
- 1. Unable to create a MyMazda account
- 2. Remote function(s) inoperative
- 3. No One Time Pass Code (OTP)
- 4. Connected vehicle reception strength icon shows "X" or "\"
- 5. MyMazda App displays incorrect tire pressures (Except CX-5 and CX-9)
- 6. Unable to activate Connected Services (2019 Mazda3)
- 7. Software Update Error (2020 Mazda3)
- 8. Functions inoperative (2021-> CX-30, CX-50, Mazda3 and MX-30)
- 9. First remote control attempt fails, second attempt works fine
- 10. Engine turns off when opening door
- 11. Low Tire pressure will not clear after correcting tire pressue
- 12. MyMazda App does not display tire air pressures (CX-5, CX-9)

Educational Videos

Resources

Connected Vehicle Troubleshooting			roubleshooting
	Symptom	Cause	Action
1	error.	Customer inadvertently texted "Stop" to 1-949 518-0058 (Twilio SMS for Mazda)	1. Text "Start" to 1-949 518-0058 (Twilio SMS for Mazda) 2. Retry to create a MyMazda account. NOTE: USA and Canada only You have successfully been resubscribed to messages from this number. Reply HELP for help. Reply STOP to unsubscribe. Msg&Data Rates May Apply.

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Service Alert No.: SA-009/23 Last Issued: 03/01/2023 Screen Tap the Detail Tap the push alert Tap notification card "check vehicle status" Go to the MyMazda App INBOX -> ACTIVITY HISTORY -> to view reason for remote function failure. 2021 MAZDA3 2.5 S PF FWD **Activity History** Go to eMDCS Vehicle Inquiry and confirm the following campains are not shown or closed: CSP06 Campain Status CSP07 SSPC7 DRW41

Troubleshooting needed

- 1. Use MDARS to ID the vehicle and check for DTC's stored. Are DTC(s) stored?
 - Yes Go to MGSS and perform normal DTC diagnostics.
 - No Go to next step.
- 2. Confirm TCU software version is at the following using TCU Software Version Check
 - Mazda3 10006 or later
 - CX-30 10006 or later
 - CX-5 10023 or later
 - CX-9 10023 or later
 - MX-30: 10019 or later
 - CX-50: 10003 or later
- 3. Disconnect battery for 30 seconds and then reconnect (KAM reset).

NOTE: Test drive vehicle after battery disconnect to allow the GPS clock to sychronize before retrying Authorization Code.

4. Perform one of the following:

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		Customer: Un-enroll Connected Services, then re-enroll into Connected Services as a new primary user. Dealer: Perform customer take-over enrollment for test confirmation, then at customer pick-up, inform customer to re-enroll into Connected Services as a new primary user. 5. Contact Hotline for additional technical support if needed.
	Only a single remote request can be made per 60-second period	Customer needs to wait 60 seconds for the initial request cycle to be completed to make the second request.
	Remote Transmitter Key(s) in the vehicle	Do not leave keys in vehicle.
	1. Aftermarket Remote Engine Start accessory installed. 2. Mazda	Remove the aftermarket accessory. The customer can use either the Mazda Remote Engine Start accessory or the MyMazda app function. Cannot use both.
	Remote Engine Start (BCKA- V7-620) accessory installed.	Mazda Remote Engine Start (RES) Removal a. Remove the Mazda Remote Engine Start (RES) accessory module. b. Deactivate and activate Advanced Key(s). Refer to MGSS IMMOBILIZER SYSTEM-RELATED PARTS PROGRAMMING [(US)].
	TCU in "deep sleep" mode due to vehicle being parked for a long period.	Advise customer to drive the vehicle as normal (at least several miles) and the Connected Services should start working again.
	Low fuel	Advise customer that Remote Engine Start may start vehicle temporarily, but vehicle will turn off automatically when the fuel level is low to conserve the remaining fuel.
	Vehicle is equipped with Manual Transmission	Advise customer that vehicles with a manual transmission do not have the Remote Engine Start/ Stop function capability.
	Engine started	Advise customer they will see an error message when

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		with key transmitter instead of MyMazda App.	attempting to make a Remote Engine Off request if they initially turned on vehicle with a physical key (instead of through their MyMazda app).
		Campain Status	Go to eMDCS Vehicle Inquiry and confirm the following campains are not shown or closed: CSP06 CSP07 SSPC7 DRW41
		Customer deactivate Connected Services (Opt- Out))	Go to eMDCS Vehicle Inquiry. Does eMDCS show CSP04 status closed? • Yes - Customer opt-out. No action needed. • No - CSP04 is not shown. Go to next Action below.
3	No One Time Passcode (OTP) (Vehicle infotainment center display does not provide the Authorization Code during the MyMazda App enrollment)	Troubleshooting needed	 Use MDARS to ID the vehicle and check for DTC's stored. Are DTC(s) stored? Yes - Go to MGSS and perform normal DTC diagnostics. No - Perform ODR Data Collection Procedure, then go to step 2. Confirm TCU software version is at the following using TCU Software Version Check. Mazda3 - 10006 or later CX-30 - 10006 or later CX-5 - 10023 or later CX-9 - 10023 or later MX-30: 10019 or later CX-50: 10003 or later CX-50: 10003 or later Retrieve MAZDA CONNECT CMU log data. Go to MGSS -> Infotainment -> MAZDA CONNECT CMU Data Retrieval Perform "Activating Remote Control by Smart Phone" (links TCU to BCM) Clear DTC(s). NOTE: If DTC 2050:55 is stored, go to SA-003/20 to clear DTC. Perform KAM reset. NOTE: Test drive vehicle after a KAM reset to allow the GPS clock to sychronize before retrying

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			Authorization Code. 8. Contact Hotline for additional technical support if needed.
		Campain Status	Go to eMDCS Vehicle Inquiry and confirm the following campains are not shown or closed: • CSP06 • CSP07 • SSPC7 • DRW41
		Customer deactivate Connected Services (Opt- Out))	Go to eMDCS Vehicle Inquiry. Does eMDCS show CSP04 status closed? • Yes - Customer opt-out. No action needed. • No - CSP04 is not shown. Go to next Action below.
4	MAZDA CONNECT connected vehicle reception strength icon shows "X" or "\". Mazda3, CX-30, CX-50, MX-30 CX-5, CX-9 CX-5, CX-9	No reception	 Check for DTCs. Are there any DTC's stored? Yes: Go to MGSS for normal DTC diagnosis. No: Go to next step. Confirm TCU software version is at the following using TCU Software Version Check. Mazda3 - 10006 or later CX-30 - 10006 or later CX-5 - 10023 or later CX-9 - 10023 or later MX-30: 10019 or later CX-50: 10003 or later Jesconnect battery terminal for 30 seconds, then test drive the vehicle. Is the reception strength signal normal? Yes: Repair complete. No: Go to next step. Perform TCU activation. Go to SA-004/21. Is the reception strength signal normal? Yes: Repair complete. No: Go to next step. Compare Tel antenna No. 1 signal strength with good known vehicle near by. Go to DIAGNOSTIC

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ASSIST FUNCTION [CONNECTIVITY MASTER UNIT (US) Functional Inspection / Adjustment -> Navigation System Inspection Good - Contact Hotline for technical support No Good - Swap Tel antenna No. 1 with known good vehicle Except CX-5 and CX-9 MAZDA CONNECT and/or MyMazda App displays incorrect tire pressures after battery disconnect and/or Incorrect infotainment CMU software update. calendar entry (month/day/ year) after a battery 5 Go to SA-002/21 disconnect or infotainment system software update. 2019 Mazda3 only · The customer is not able to Improper activate Connected Services via telematics the MyMazda app after CSP06 6 communication Go to CSP07 Repair instructions. completion. unit (TCU) MAZDA CONNECT connected software. vehicle reception strength icon is missing or shows unsubscribed

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2021 Mazda3, CX-30, CX-50, and MX-30 functions inoperative

Vehicle Status Alert

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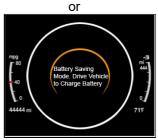
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- · Remote Engine Start / Stop
- · Remote Door Lock / Unlock
- · Remote Hazard Lights ON / OFF
- Vehicle Finder (vehicle location mapping function is available)

Vehicle's electrical control area network (CAN) is in "Sleep

Mode"

Tops 80 Low Battery Risk Start Vehicle to Charge 12V Battery 0 0 715



No dealer visit is required. Sleep Mode can be reset by starting the engine and idling or driving for 5 minutes or longer.

Go to 09-010/22.

First remote control attempt fails, second attempt works fine.

Engine Start / Stop

Improper telematics communication unit (TCU) software.

Go to TSB 16-002/20.

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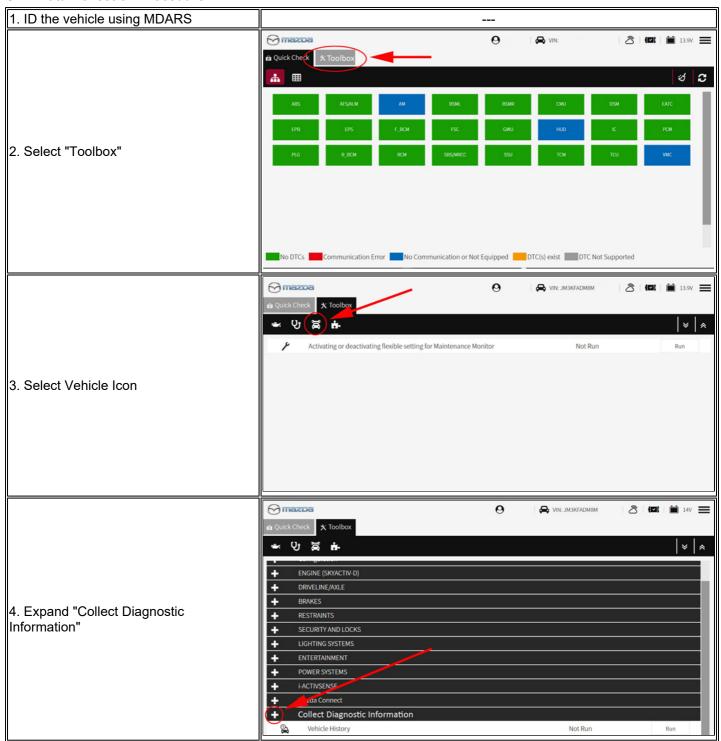
	Door Lock / Unlock Lights ON / OFF		
1	Engine turns off when customer opens vehicle door.	Normal Operation	Advise that, for customer's safety and security, vehicle is designed to shut-off automatically when the vehicle door is opened.
1	 Low Tire pressure will not clear after correcting tire pressue. Vehicle status is inaccurate. 	MyMazda App is not real time.	Customer must go to MyMazda app's Inbox and read/open all the messages related to the low tire pressure alert, then the "Low tire pressure" alert will clear from MyMazda app's Health Report Message will clear after next drive cycle.
1	CX-5, CX-9 The MyMazda App does not display tire air pressures	CX-5 and CX-9 Normal Operation	No action Needed

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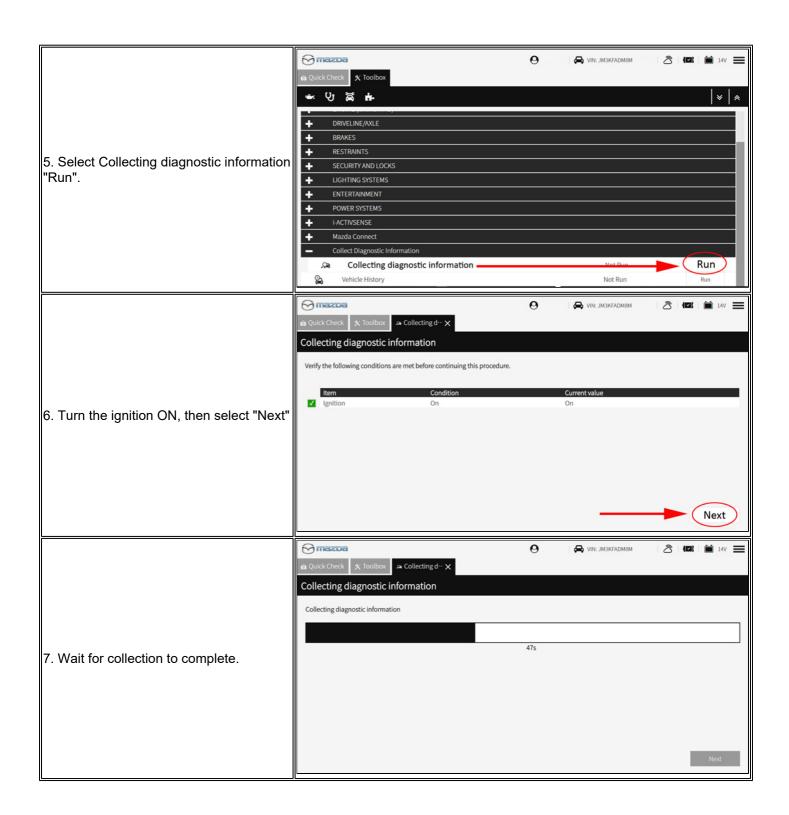
Last Issued : 03/01/2023

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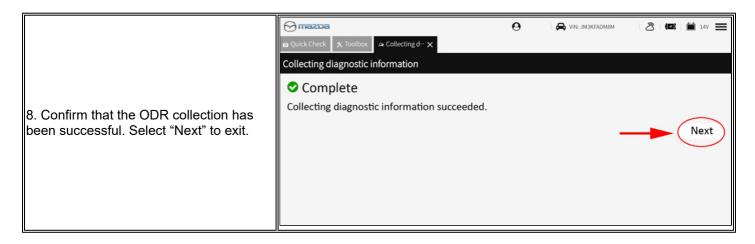
ODR Data Collection Procedure



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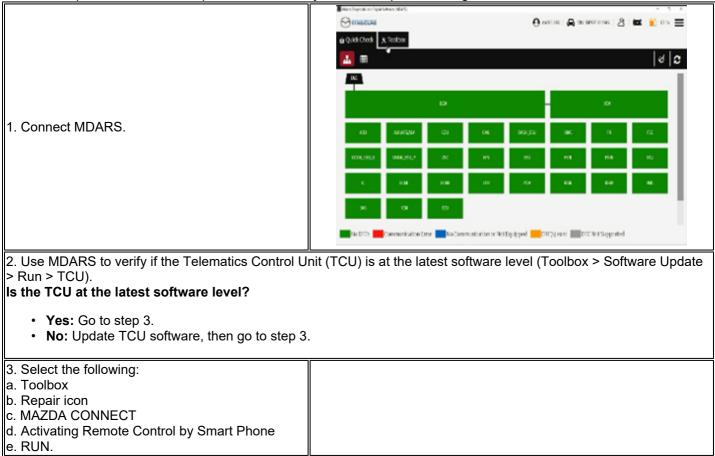


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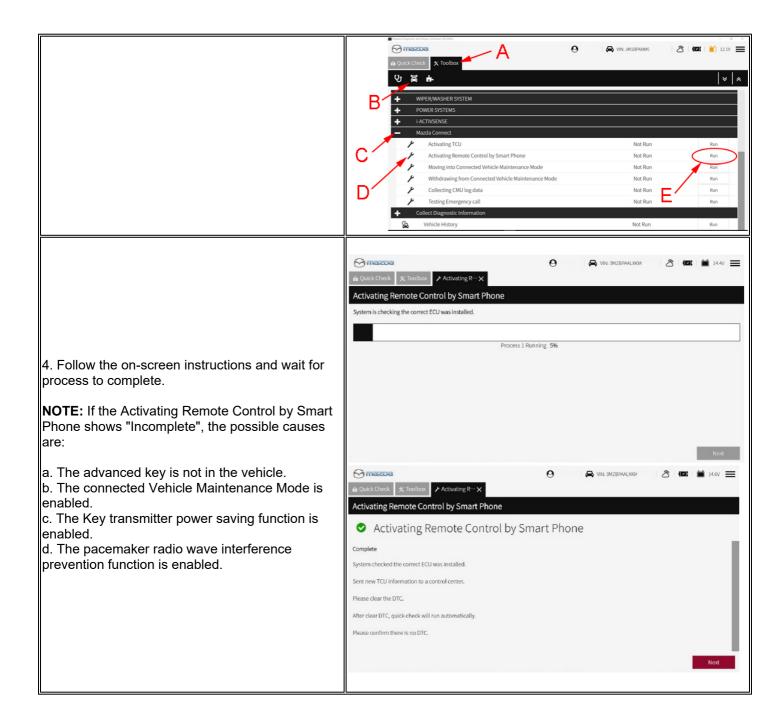


Activating Remote Control by Smart Phone (links TCU to BCM)

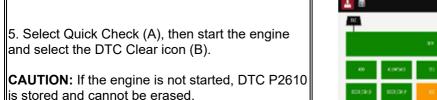
NOTE: This procedure cannot be performed if the key transmitter power saving function is enabled. See SA-040/20.

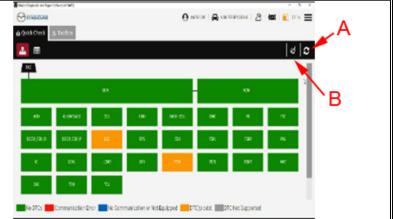


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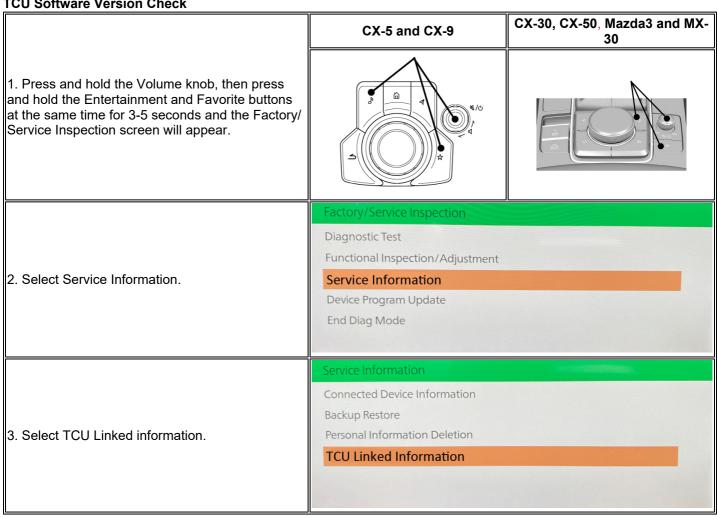


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TCU Software Version Check



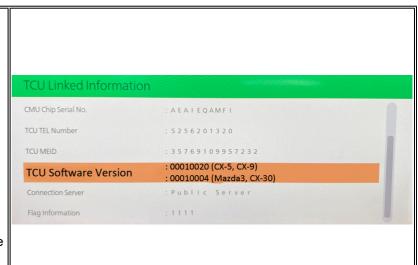
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4. Scroll down to TCU Software Version and confirm the software version is at:

- Mazda3 10006 or later
- CX-30 10006 or later
- CX-5 10023 or later
- CX-9 10023 or later
- MX-30: 10019 or later
- CX-50: 10003 or later

Is the TCU software version correct?

- Yes: TCU Software Version Check is complete.
- No: Go to Telematics Communication Unit (TCU) Updates to update the TCU software version.



Educational Videos

Overview
Using MyMazda App
In-car Wi-Fi hotspot
MyMazda remote
Notifications
Saftey features

Resources

SA-019/22 - MAZDA CONNECTED SERVICES - FREQUENTLY ASKED QUESTIONS (FAQ)

Connected Services Owner's Manual

MAZDA CONNECT and MAZDA CONNECTED SERVICES USER GUIDE

MAZDA CONNECTED VEHICLE VIEWER (MCVV) USER GUIDE

MAZDA CONNECT ESSENTIALS WBT (30076)

MAZDA CONNECT & CONNECTED SERVICES FOCAL POINT (30093FOC)

MAZDA CONNECTED SERVICES SMART CARDS

MAZDA CONNECTED SERVICES: CUSTOMER OUTREACH

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