Service Alert

Mazda North American Operations Irvine, CA 92618-2922



Subject:

CONNECTED VEHICLE SYMPTOM TROUBLESHOOTING

Service Alert No.: SA-013/21

Last Issued: 03/15/2021

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-013/21	02/22/21, 02/08/21 and 02/02/2021
Ι Δ-031/70	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

2019-2021 Mazda3 2020-2021 CX-30 2021 CX-5 2021 CX-9

DESCRIPTION

IMPORTANT NOTE: Some 2020 Mazda3 vehicles may have incorrect infotainment software version 10042 installed. The incorrect software will cause MyMazda App Connected Vehicle enrollment errors. Go to SSPC1.

Some customers may complain about any of the following:

- Infotainment Center Display does not provide the Authorization Code during the MyMazda App Connected Vehicle enrollment (and Software Update Error message on 2020 Mazda3 only).
- Remote function(s) inoperative.
 - Engine Start / Stop
 - Door Lock / Unlock
 - Lights ON / OFF

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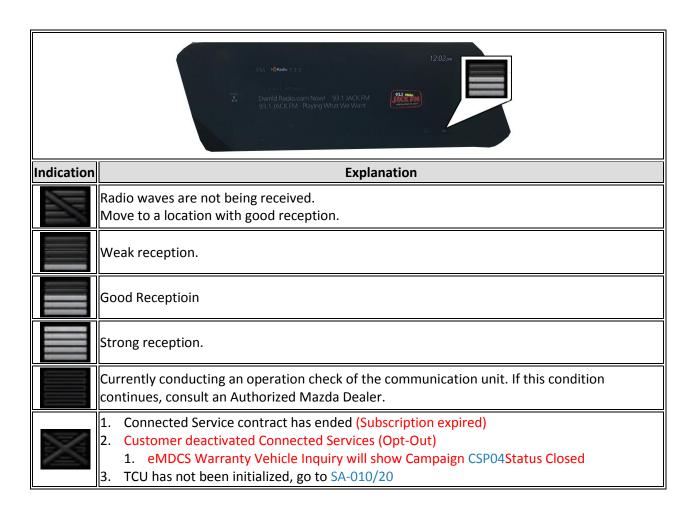
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Confirm the customer's phone and vehicle have good to strong reception during the concern as shown in the table below.

- 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 the Repair Procedure.

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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 driven.

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	The vehicle must be driven 1-mile or 24-hours must pass from the last successful Remote Engine Start for the use count to reset.	
8	2021 Mazda3 and CX-30: Vehicle's electrical control area network (CAN) is in "Sleep Mode"	
9	A registered key is detected in the vehicle	
10	Brake pedal switch detects brake application	
11	Low fuel warning message	
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-013/20)	
17	Room fuse blown/missing	
18	Connected Vehicle Maintenance Mode enabled (Restricted Transmitting Mode in MDARS)	
19	Vehicle is parked (stored) for approximately 1 week or longer or in deep sleep mode. Drive the vehicle for a few miles to recover.	
20	DTC Stored	
21	Aftermarket Remote Engine Start accessory installed.	
	Mazda Remote Engine Start (BCKA-V7-620) accessory installed (No MyMazda app remote engine start function).	
22	Mazda Remote Engine Start (RES) Removala. Remove the Mazda Remote Engine Start (RES) accessory module.	
	b. Deactivate and activate Advanced Key(s). Refer to MGSSIMMOBILIZER SYSTEM-RELATED PARTS PROGRAMMING [(US)]	
23	First remote control attempt fails, second attempt works fine. Go to TSB 16-002/20.	

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

Item	Condition	

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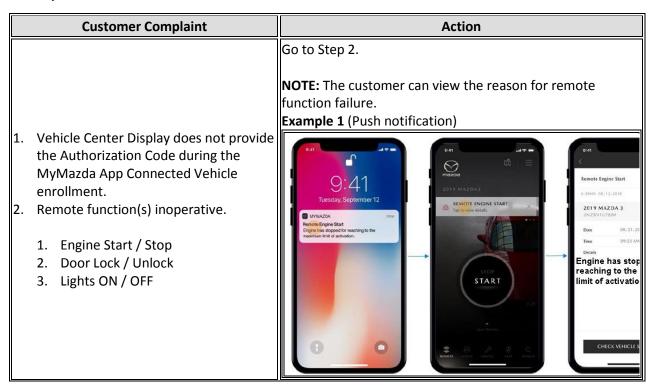
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1	Vehicle door(s) opened
2	Vehicle trunk opened
3	Vehicle hood opened
4	Ignition switch push button "ON" detected
5	Remote engine STOP request
6	Brake pedal switch detects brake application
7	DTC Stored
8	Engine will stop running automatically after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

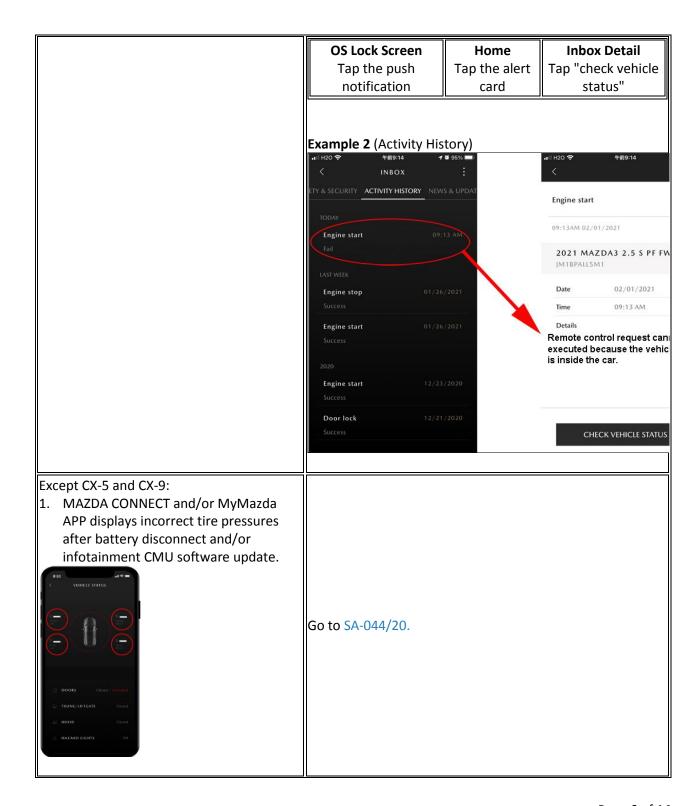
REPAIR PROCEDURE

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.

1. Verify customer concern.



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All vehicles:

app

1. The customer is not able to activate

MAZDA CONNECT connected vehicle

reception strength icon shows "X".

Connected Services via the MyMazda

1. Did the customer deactivate Connected Services (Opt-Out)?NOTE: If deactivated, eMDCS Warranty Vehicle Inquiry will show Campaign CSP04Status Closed.

- 1. **Yes:** No repair needed.
- 2. No: Go to next step.
- 2. Check for DTCs.

Are there any DTC's stored?

- 1. Yes: Go to MGSS for normal diagnosis.
- 2. No: Go to next step.
- 3. Disconnect battery terminal for 30 seconds, then move the vehicle. Is the reception strength signal normal?
- 1. Yes: Repair complete.
- No: Go to next step.
- 4. Perform TCU activation. Go to SA-004/21.

Is the reception strength signal normal?

- 1. Yes: Repair complete.
- 2. No: Go to next step.
- 5. Compare Tel antenna No. 1 signal strength with good known vehicle near by.

Go to DIAGNOSTIC ASSIST FUNCTION [CONNECTIVITY MAST UNIT (US)]

Functional Inspection / Adjustment - Navigation System Inspection

Example:



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- Good: Contact Hotline for technical support.
- 2. **No Good:** Swap Tel antenna No. 1 with known good vehicle.

2019 Mazda3 only:

- The customer is not able to activate Connected Services via the MyMazda app after CSP06 completion.
- MAZDA CONNECT connected vehicle reception strength icon is missing or shows unsubscribed after CSP06 completion.



Go to CSP07 Repair instructions.

2020 Mazda3 only:

 Infotainment center display does not provide Authorization Code during the MyMazda App Connected Vehicle enrollment and infotainment Software Update Error message.



Go to SSPC1.

2021 Mazda3 and CX-3 functions inoperative:

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

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- 1. Vehicle Status Alert
- 2. Remote Engine Start / Stop
- 3. Remote Door Lock / Unlock
- 4. Remote Hazard Lights ON / OFF
- 5. Vehicle Finder (vehicle location mapping function is available)



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

SeeSA-005/21.

First remote control attempt fails, second attempt works fine.

- 1. Engine Start / Stop
- 2. Door Lock / Unlock
- 3. Lights ON / OFF

Go to TSB 16-002/20.

Remote Engine Start inoperative due to:1. Aftermarket Remote Engine Start accessory installed.

- 2. Mazda Remote Engine Start (BCKA-V7-620) accessory installed.
- 1. Remove the aftermarket accessory.
- 2. The customer can use either the Mazda Remote Engine Start accessory or the MyMazda app function. Cannot use both.



Mazda Remote Engine Start (RES) Removala. Remove the Mazda Remote Engine Start (RES) accessory module.

b. Deactivate and activate Advanced Key(s). Refer to MGSSIMMOBILIZER SYSTEM-RELATED PARTS PROGRAMMING [(US)].

2. Use MDARS to ID the vehicle and check for DTC's stored.

Are DTC(s) stored?

- Yes: Go to step 3.
- No: PerformODR Data Collection Procedure, then go to step 3.

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- 3. Retrieve MAZDA CONNECT CMU log data. Go to MGSSMAZDA CONNECT CMU Data Retrieval
- 4. Perform "Activating Remote Control by Smart Phone".

5.Clear DTC(s).

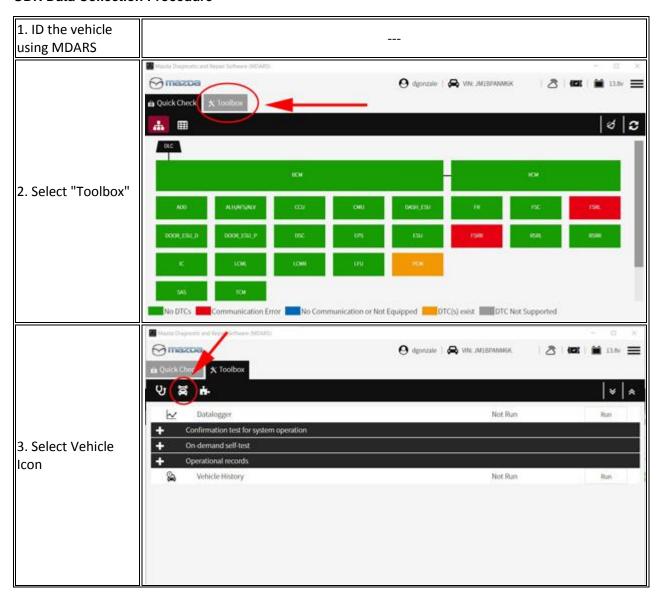
NOTE: If DTC 2050:55 is stored, go to SA-003/20 to clear DTC.

6. Perform KAM reset.

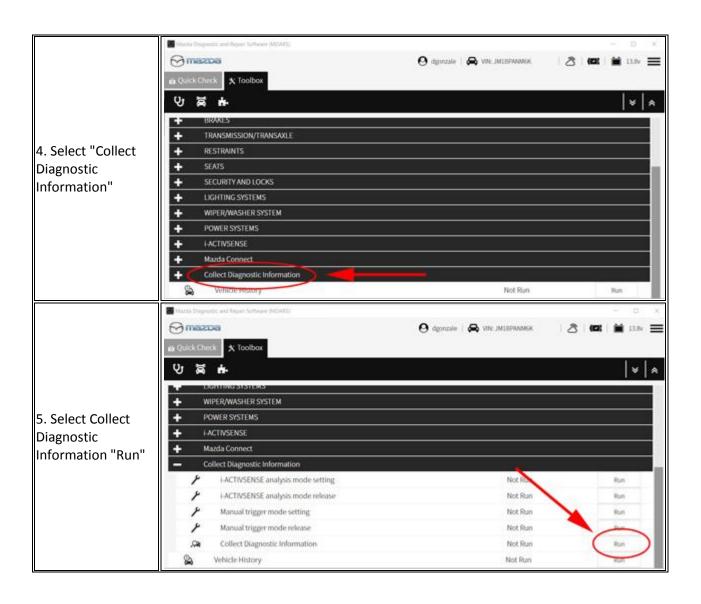
NOTE: Test drive vehicle after a KAM reset to allow the GPS clock to sychronize before retrying connected vehicle functions.

7. Contact Hotline for the latest repair information.

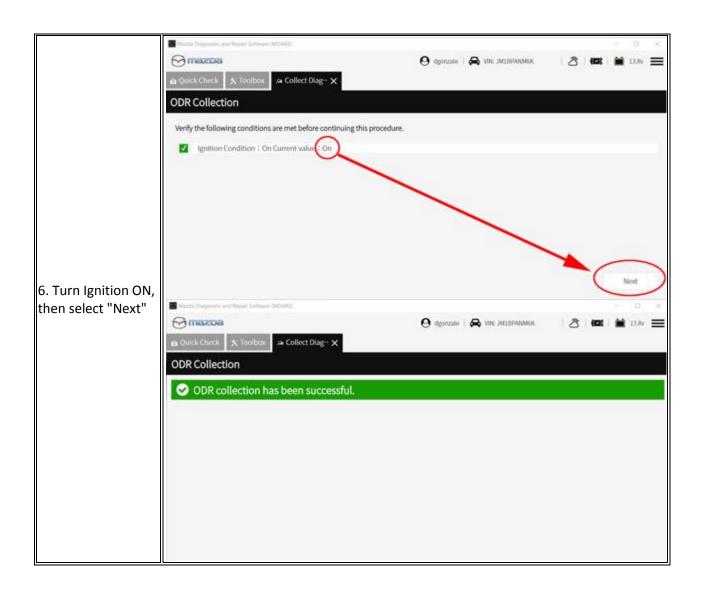
ODR Data Collection Procedure



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Activating Remote Control by Smart Phone

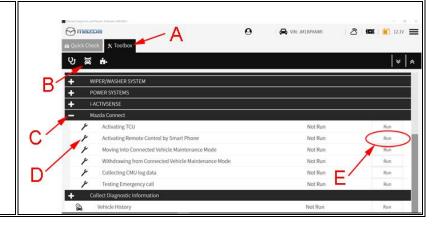
NOTE: This procedure cannot be performed if the key transmitter power saving function is enabled. See SA-040/20.



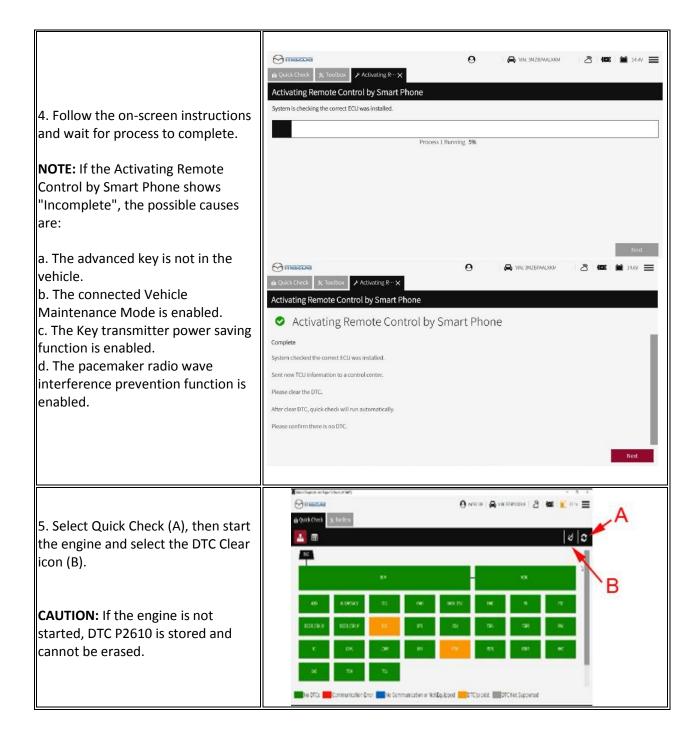
2. Use MDARS to verify if the Telematics Control Unit (TCU) is at the latest software level (Toolbox Software Update Run TCU).

Is the TCU at the latest software level?

- 1. **Yes:** Go to step 3.
- 2. No: Update TCU software, then go to step 3.
- 3. Select the following: a. Toolbox
- b. Repair icon
- c. MAZDA CONNECT
- d. Activating Remote Control by Smart Phone
- e. RUN.



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