

Subject:

CONNECTED VEHICLE SYMPTOM TROUBLESHOOTING

Service Alert No.: SA-013/21

Last Issued : 09/14/2021

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	<mark>06/02/21,</mark> 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

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

DESCRIPTION

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.
- Remote function(s) inoperative.
 - Engine Start / Stop
 - Door Lock / Unlock
 - Lights ON / OFF
- MAZDA CONNECT connected vehicle reception strength icon shows "X" or "\".

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.

	FM None 12.02 pm Dwnlid Radio.com Now! 93.1 JACK FM 93.1 JACK FM - Playing What We Want
Indication	Explanation
Mazda3, CX-30	Radio waves are not being received. Move to a location with good reception.
	Weak reception.
	Good Receptioin
	Strong reception.
	Currently conducting an operation check of the communication unit. If this condition continues, consult an Authorized Mazda Dealer.
0	Currently conducting an operation check of the onboard communication unit. NOTE: Communication is not possible during this display.
CX-5, CX-9	The communication function is temporarily disabled due to infotainment system setting.
Mazda3, CX-30	 Connected Service contract has ended (Subscription expired) Customer deactivated Connected Services (Opt-Out) eMDCS Warranty Vehicle Inquiry will show Campaign CSP04 Status Closed TCU has not been initialized, go to SA-004/21

Remote Engine Start Will Not Function under the following conditions

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ltem	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
7	Engine started by remote engine start more than 2 consecutive times while the vehicle is not driven. 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-012/20)
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) 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)]
23	First remote control attempt fails, second attempt works fine. Go to TSB 16-002/20.

Remote Engine Start Function <u>Will</u> turn engine OFF under the following conditions

1 Vehicle door(s) opened	ltem	Condition
	1	Vehicle door(s) opened

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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

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.

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.

Customer Complaint		Action	
Customer Complaint Remote function(s) inoperative. • Engine Start / Stop • Door Lock / Unlock • Lights ON / OFF	 1. Go to the MyMazda Apreason for remote function 2. If necessary, use MDAF stored. Are DTC(s) stored? Yes: Go to MGSS - No: Contact Hotline NOTE: The customer can Example 1 (Push notificat 	p INBOX -> ACTIVITY n failure. RS to ID the vehicle a for normal DTC diagn e for technical support view the reason for re	nd check for DTC's osis if needed.
	OS Lock Screen	START ST	Limit of activation CHECK VEHICLE STATUS Inbox Detail

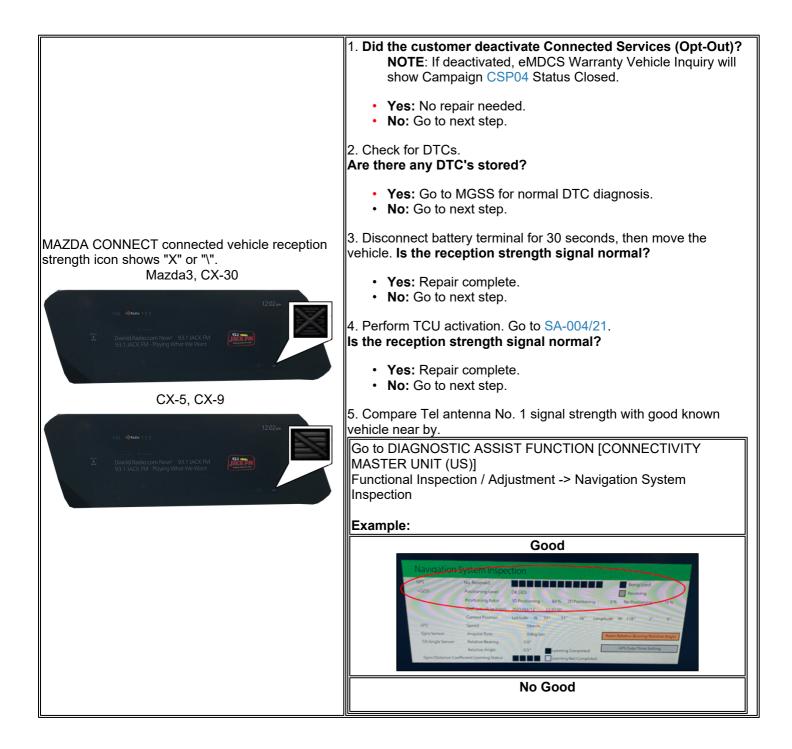
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	Tap the push no	otification	Tap the alert card	Tap "check vehicle
			•	ˈ status"
	Example 2 (Activ	vity Llister		
	Example 2 (Actin			午前9:14 7 2 94% 🔲
	< inbox		: <	
	ETY & SECURITY ACTIVITY HIS	TORY NEWS & UI	Engine st	art
	TODAY Engine start		09:13AM 0	2/01/2021
	Fail		2021 M JM1BPAL	IAZDA3 2.5 S PF FWD
	LAST WEEK		Date	02/01/2021
	Engine stop Success		Time	09:13 AM
	Engine start Success		Remote	control request cannot be I because the vehicle's key the car
	2020 Engine start			
	Success			
	Door lock Success			CHECK VEHICLE STATUS
	Vehicle Inquiry. 2. Confirm TCU • 10020 or • 10004 or	software v later for C later for C	SPC7 or DRW41 is cl version is at: X-5 and CX-9 X-30 and Mazda3 Activation -> see NO T	
	1. Use MDARS t Are DTC(s) stor		ehicle and check for	DTC's stored.
	 Yes: Go t No: Perfo 2. 		Data Collection Proce	dure, then go to step
Vehicle Center Display does not provide the Authorization Code during the MyMazda App Connected Vehicle enrollment.	CONNECT CMU	J Data Ret vating Rer		Go to MGSS MAZDA t Phone" (links TCU
	NOTE: If DTC 20 5. Perform KAM	050:55 is : reset.	stored, go to SA-003/	
	sychronize befor	e retrying	Authorization Code.	allow the GPS clock to
<u> </u>	6. Contact Hotlin	e for addi	tional technical suppo	ort it needed.

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	 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 infotainment CMU software update.	Go to SA-002/21.
 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:	Go to SSPC1.

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 Infotainment center display does not provide Authorization Code during the MyMazda App Connected Vehicle enrollment and infotainment Software Update Error message. Software Update Error message. 	
	Vehicle's electrical control area network (CAN) is in "Sleep Mode".
 2021 Mazda3 and CX-30 functions inoperative: Vehicle Status Alert Remote Engine Start / Stop Remote Door Lock / Unlock Remote Hazard Lights ON / OFF 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.
First remote control attempt fails, second attempt	
works fine.	
 Engine Start / Stop Door Lock / Unlock 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.	 Remove the aftermarket accessory. The customer can use either the Mazda Remote Engine Start accessory or the MyMazda app function. Cannot use both. Mazda Remote Engine Start (RES) Removal Remove the Mazda Remote Engine Start (RES) accessory module. Deactivate and activate Advanced Key(s). Refer to MGSS IMMOBILIZER SYSTEM-RELATED PARTS PROGRAMMING [(US)]

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ODR Data Collection Procedure

1. ID the vehicle using MDARS									
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	ABS	AFS/ALM	АМ	BSML	BSMR	СМИ	DSM	EATC	
	EPB	EPS	F_BCM	FSC	GWU	HUD	ю	РСМ	
2. Select "Toolbox"	PLG	R_BCM	RCM	SBS/MRCC	ssu	тсм	тси	VMC	
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	۶ Activa	iting or deactivatir	ng flexible setting fo	or Maintenance Mo	nitor	Not	Run	Run	
3. Select Vehicle Icon									
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	DRIVELINE/AXLE					
	+ BRAKES					
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	+ ENTERTAINMENT					_
	POWER SYSTEMS					
	+ i-ACTIVSENSE					- 1
	+ connect					- 1
	Collect Diagnostic Information					- 1
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	Collecting diagnostic information					
	Verify the following conditions are met before continuing this procedure.					
	Item Condition		Current value			
6. Turn the ignition ON, then	✓ Ignition On		On			
6. Turn the ignition ON, then select "Next"						
						Next
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	Collecting diagnostic information					
7. Wait for collection to complete.	Collecting diagnostic information					
		47s				
						Next

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8. Confirm that the ODR	Collecting diagnostic information succeeded.				
collection has been successful.				Nex	kt
Select "Next" to exit.					

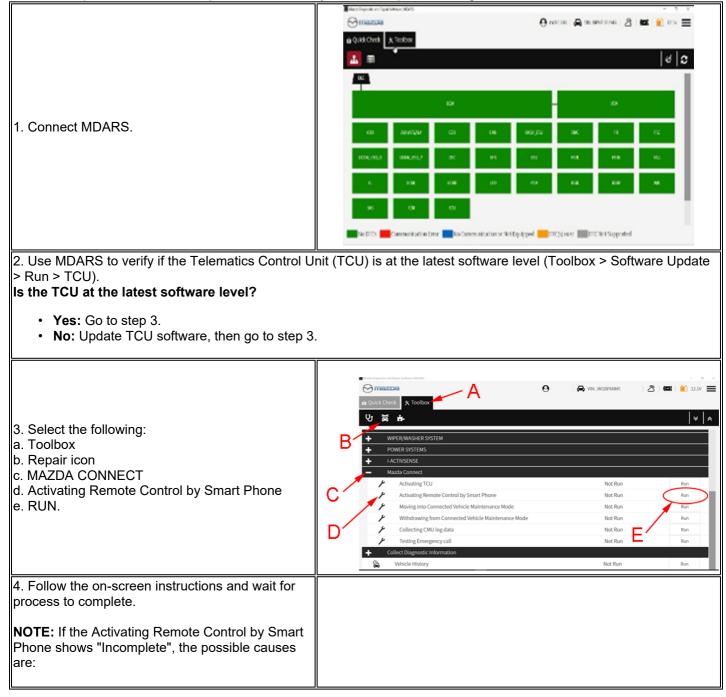
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Activating Remote Control by Smart Phone (links TCU to BCM)

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



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 a. The advanced key is not in the vehicle. b. The connected Vehicle Maintenance Mode is enabled. c. The Key transmitter power saving function is enabled. d. The pacemaker radio wave interference prevention function is enabled. 	Image: Check of the correct ECU was installed. Process 1 Running 5%
	Next
	Activating Remote Control by Smart Phone Complete System checked the correct ECU was installed. Sent new TCU information to a control center. Please clear the DTC. Please clear the DTC. Please confirm there is no DTC. Net
5. Select Quick Check (A), then start the engine and select the DTC Clear icon (B). CAUTION: If the engine is not started, DTC P2610 is stored and cannot be erased.	

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