

Service Alert

Mazda North American Operations
Irvine, CA 92618-2922

**Subject:**

**"IN-VEHICLE NETWORK MALFUNCTION" INSTRUMENT CLUSTER
WARNING MESSAGE**

Service Alert No.: SA-029/20

Last Issued: 06/05/2020

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-029/20	04/17/20, 04/08/20 and 02/25/20
SA-014/19	09/05/19 and 04/03/19

APPLICABLE MODEL(S)/VINS

2019-2020 Mazda3

2020 CX-30

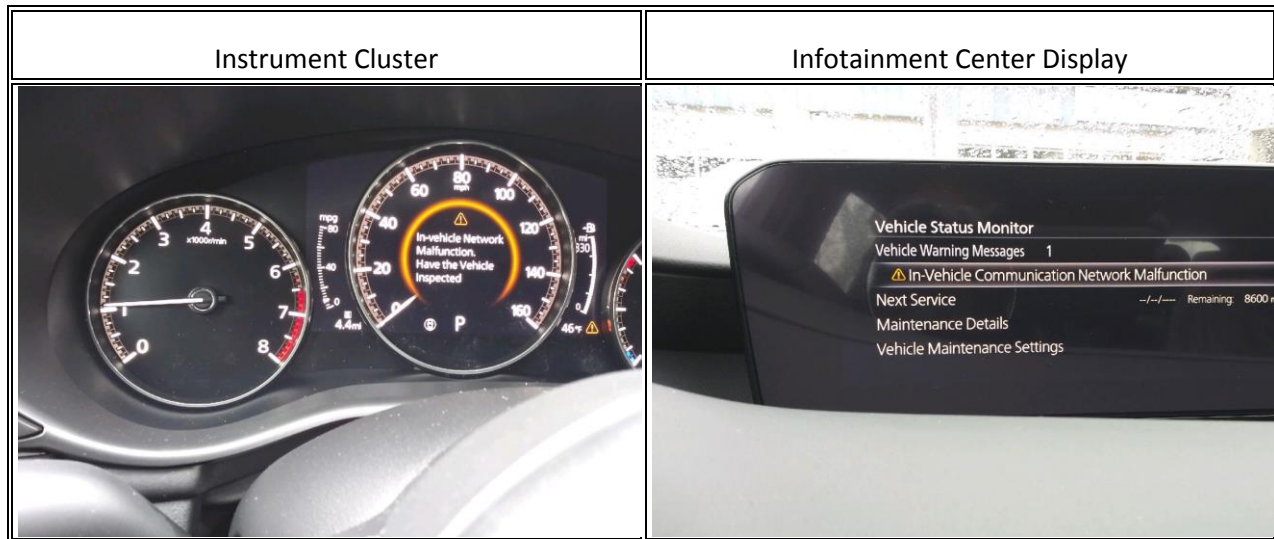
DESCRIPTION

Some customers may experience a "IN-VEHICLE NETWORK MALFUNCTION" warning message in the instrument cluster with one or more of the following DTC's stored:

- B119F:01 TCU - Tel antenna No. 1 malfunction
- B1252:87 TCU - Communication error with connectivity master unit (CMU)
- U0156:00 VCM - Communication error with connectivity master unit (CMU)
- U0156:00 BCM - Communication error with connectivity master unit (CMU)
- U0198:00 BCM - Communication error with emergency call unit
- U212D:00 BCM - Communication error with light control module (RH)
- U3000:00 TCU - Telematics communication unit internal malfunction
- Low Voltage Battery DTCs

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REPAIR PROCEDURE

1. Verify customer concern.

2. Connect MDARS.

NOTE: Only use MDARS to scan for DTC's. If IDS is used, P0602 (PCM programming error) will falsely set. Is the TCU shown (red or green) on the MDARS main screen?

- Yes - Go to the next step.
- No - Go to [Method For Recovering Missing TCU](#), then go to next step.

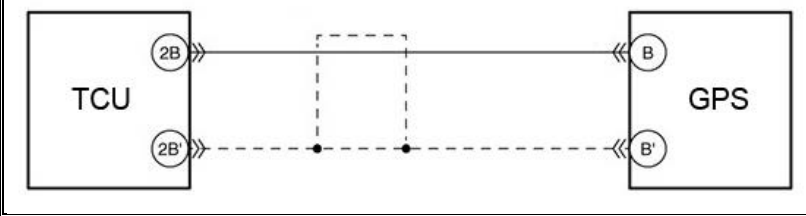
3. Check for:

- Missing fuses
- Blown fuses
- Correct fuse amperage

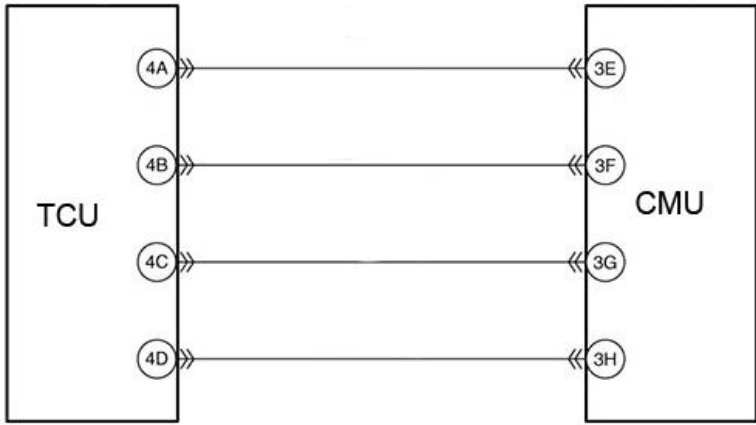
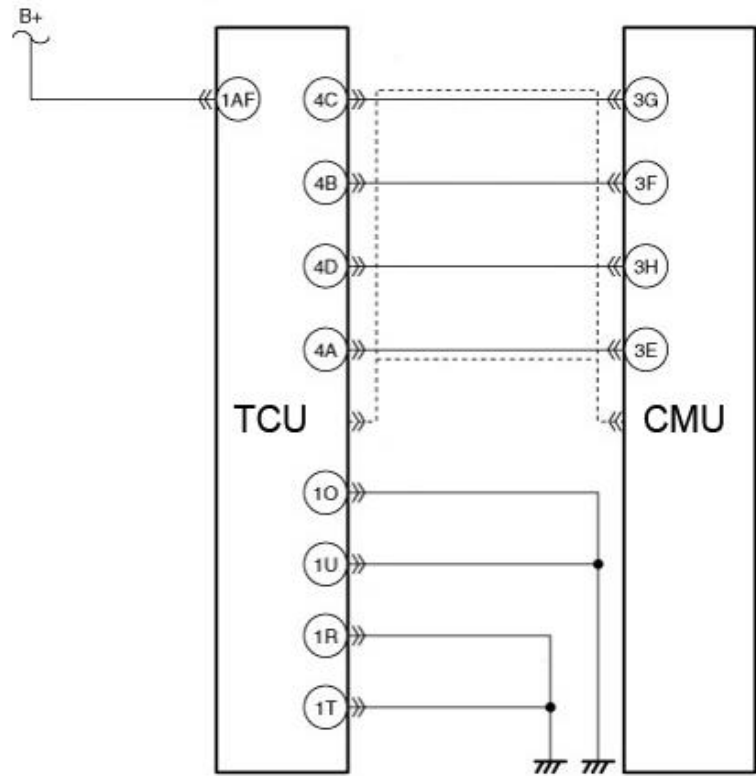
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4. Are any DTC(s) stored?

- Yes - See table below:
- No - Contact hotline for latest repair information.

DTC	Action
B119F:01	1. Check GPS antenna lot number. Is the lot number before 0C230003? 1. Yes - Contact Hotline for the latest repair information. 2. No - Go to next step. How to read lot number The lot number is in YMDDnnnn format. If it is 0C230003 or later, the part is already modified. No part number change for new modification. Example: 0C230003: 0→2020 (year), C → March, 23→ 23th (day), 0003→serial number for the day 9H161360: 9→2019 (year), H → August, 16→ 16th (day), 1360→serial number for the day  2. Check GPS antenna connection. 1. GPS connection is good - Refer to MGSS DTC B119F:01 [TELEMATICS COMMUNICATION UNIT] 2. GPS connection is bad - Repair GPS antenna connection. 
B1252:87	1. Check USB cable connections between TCU and CMU.

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U0156:00	1. Refer to the instructions on MGSS. 1. Mazda3 DTC U0156:00 [BODY CONTROL MODULE (BCM)] 2. CX-30 DTC U0156:00 [BODY CONTROL MODULE (BCM)]
U0198:00	1. Check USB cable connections between TCU and CMU. 
U212D:00	1. Refer to the instructions on MGSS.

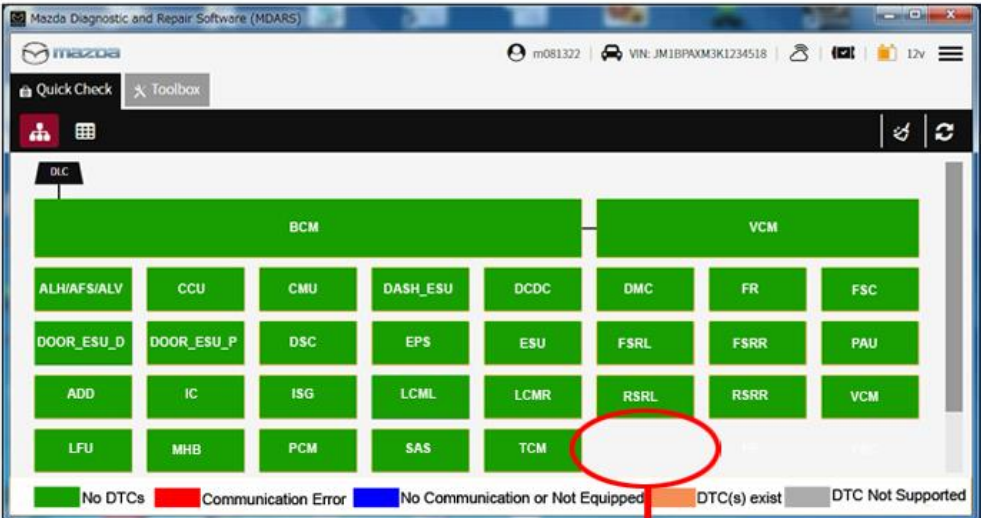
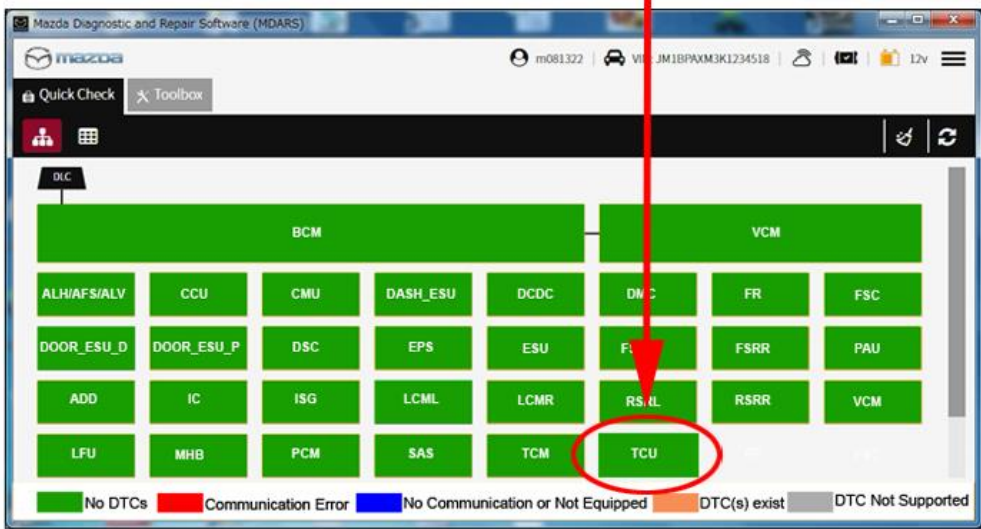
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	1. Mazda3 DTC U212D:00 [BODY CONTROL MODULE (BCM)] 2. CX-30 DTC U212D:00 [BODY CONTROL MODULE (BCM)]
U3000:00	1. Replace TCU. Refer to the instructions on MGSS. 1. Mazda3 TELEMATICS COMMUNICATION UNIT REMOVAL/INSTALLATION. 2. CX-30 TELEMATICS COMMUNICATION UNIT REMOVAL/INSTALLATION.
Other DTC's	Refer to the instructions on MGSS.
Low Battery with or without DTC	Disconnect battery for 30 seconds, then reconnect it.

5. Verify repair.

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Method For Recovering Missing TCU

a.	ID vehicle using MDARS.	
b.	IG OFF.	
c.	Refresh DTC.	
d.	IG ON while refreshing DTC.	
e.	TCU now appears. Go to step 3.	

TCU appears

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