

Subject:	
ELECTRICAL CONCERN AND/OR MULTIPLE DTC'S DUE TO AFTERMARKET DEVICE	Service Alert No.: SA-075/22
	Last lssued : 11/14/2022

BULLETIN NOTES

APPLICABLE MODEL(S)/VINS:

2011-2023 Mazda2 2007-2023 Mazda3 2007-2015 Mazda6 2007-2015 Mazda5 2016-2023 CX-3 2007-2012 CX-7 2007-2023 CX-9 2007-2011 RX-8 2007-2023 MX-5 2020-2023 CX-30 2022 MX-30 2023 CX-50

DESCRIPTION

If you encounter any type of electrical concern (e.g, dead battery, engine no start, DTC(s) stored...), interview the customer before proceeding with normal MGSS diagnosis by asking if any aftermarket devices have been installed. Aftermarket devices may be the cause of the electrical concern. Below are a few examples of unusual electrical concerns caused by aftermarket devices.

Examples:

- 1. Devices connected to the DLC-2 (battery discharge/DTC stored)
- 2. Cell phone charger/accessory in 12V socket (engine no start or unable to turn off)
- 3. GPS tracking device (engine no start/battery discharge)
- 4. Dash cam (DTC stored)
- 5. Non-certified USB cable (Apple Carplay™/ Android Auto™ will not connect)
- 6. Over-sized wheels/tires (incorrect GPS location)

Page 1 of 5

Example 1

Some electrical devices connected to the DLC-2 connector by insurance or mobile phone companies may cause:

- Battery discharge. The device may disrupt the CAN system battery saver mode.
- IDS/MMDS will not communicate with the vehicle due to poor DLC-2 connection. The aftermarket device may
- cause DLC-2 female terminals to spread open.
- DTCs
 - B1041:54 ADAPTIVE FRONT LIGHTING SYSTEM (AFS) CONTROL MODULE
 - B108E:04 CENTER DISPLAY INTERNAL MALFUNCTION
 - C0061:54 DSC HU/CM
 - C1001:92 FORWARD SENSING CAMERA (FSC)
 - C1001:97 FORWARD SENSING CAMERA (FSC)
 - U300A:62 ELECTRIC PARKING BRAKE (EPB)
 - U3004:17 ACC RELAY CIRCUIT MALFUNCTION
 - U0415:00 MAZDA RADAR CRUISE CONTROL (MRCC)/SMART BRAKE SUPPORT (SBS)
 - U0420:00 MAZDA RADAR CRUISE CONTROL (MRCC)/SMART BRAKE SUPPORT (SBS)
 - Multiple DTC's (U0XXX:00 COMMUNICATION ERROR)



- If an aftermarket device is found connected to DLC-2, take a photo and attach it to the RO. Advise the customer to remove it.
- If you determine that no aftermarket devices have been installed, continue with normal MGSS diagnosis.

Example 2

Some aftermarket cell phone chargers or accessories connected to the 12V outlet may cause issues with the START/STOP button

When you receive a customer complaint that vehicle power supply cannot be controlled adequately, such as an engine no start condition or the ignition cannot be turned off from the engine-running or the ignition-on, explain to the customer as follows. Due to the reverse power supply from electronic devices with internal batteries to the vehicle through the accessory socket, the vehicle system may not be able to determine the vehicle electronic status. As a result, the vehicle power supply control fails.

To overcome this situation, remove the electronic device with internal batteries from the accessory socket.

Page 2 of 5



Example 3

Some aftermarket devices that are wired to the vehicles's wiring harness may create unusual electrical symptoms and/or store DTCs.

Below are examples of concerns due to an aftermarket GPS tracking device wired to the power window main switch:

- · Engine no start
- Battery discharge
- Main relay buzzing



Page 3 of 5

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Below is an example of a dim headlight. The aftermarket device changed the headlight circuit resistance, causing a dim headlight.



Example 4

DTC B119F:01 (TEL antenna No.1 malfunction) stored. This may be caused by an aftermarket dash cam. The aftermarket device may cause electrical noise disturbing the reception of GPS signals.



Example 5

Apple Carplay™/ Android Auto™ will not function when connected to USB port. This may be caused a by low quality, non-certified USB cable.

Example 6

Navigation display map shows incorrect GPS location (A). This may be caused by over-sized wheels/tires. Confirm correct wheel/tire size according to the tire label.



REPAIR PROCEDURE

1. Verify the customer concern.

- If the customer's concern(s) are verified to be caused by any aftermarket device as described in the examples above, take a photo of the device and include it with the RO. The customer should also be advised to remove the device.
- If it is determined that no aftermarket devices have been installed, continue with normal diagnosis on MGSS.
 Please contact Technical Hotline for repeat visits.

2. Verify the repair.

WARRANTY INFORMATION

Use DSA to submit for non-problem found non-warrantable diagnosis for up to 0.7 hrs. if needed.

Page 5 of 5