

Technical Service Bulletin

Mazda North American Operations
Irvine, CA 92618-2922

**Subject:**

LED HEADLIGHT WARNING LIGHT FLASHES WITH DTC C0061:54

Bulletin No.: 09-012/18

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APPLICABLE MODEL(S)/VINS

2018 CX-3 vehicle equipped with LED headlight auto leveling system

DESCRIPTION

When the LED headlight auto leveling system initialization has been performed using Mazda Modular Diagnostic System (M-MDS), the LED headlight warning light continues flashing and DTC C0061:54 is stored after unloading the vehicle from a trailer.

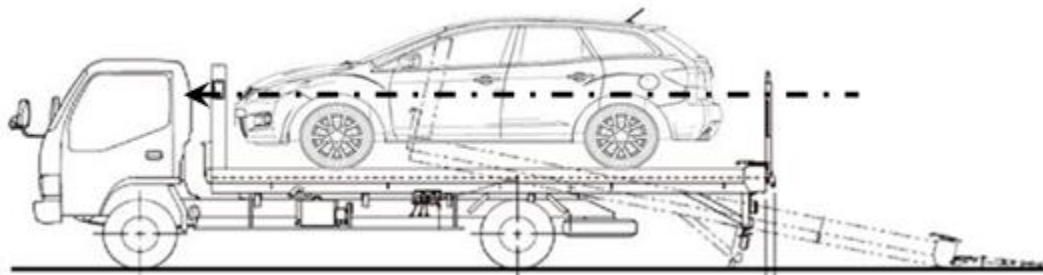
- DTC C0061:54 - [HEADLIGHT AUTO LEVELING SYSTEM] Acceleration sensor initial position learning not completed

This may be caused by a failure of the headlight auto leveling system initialization, which is performed while driving the vehicle. Under special conditions, however, the initialization can be interrupted.

Conditions where initialization is interrupted:

NOTE: Conditions 1 (loading vehicle onto trailer) and 2 (unloading vehicle from trailer) must both occur to interrupt the initialization.

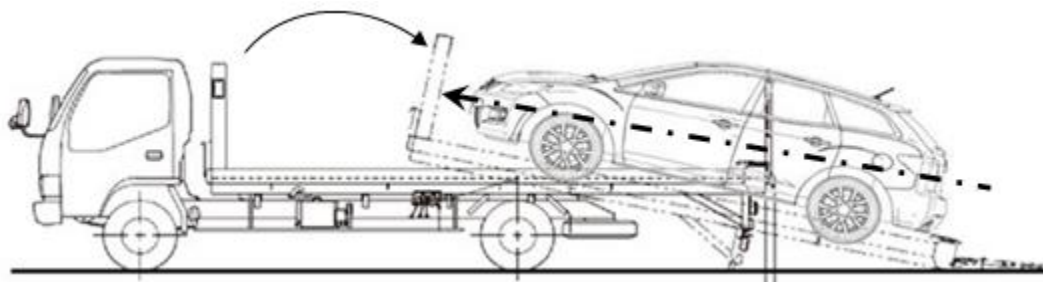
1. Loading Vehicle: When loading the vehicle onto the trailer, the ignition is turned **OFF** while the vehicle is level.



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2. Unloading Vehicle: After sliding the carrier outward to unload the vehicle from the trailer, the ignition is turned **ON** while the vehicle is inclined.



If **both** of the above conditions (1 and 2) occur, the LED headlight auto leveling system determines that the vehicle angle was changed from level to inclined during the initialization. This interrupts the initialization and causes the LED headlight warning light to flash and DTC C0061:54 to be stored.

To resolve this concern, follow the repair procedure below.

REPAIR PROCEDURE

1. Verify the concern.
2. Perform the (HEADLIGHT AUTO LEVELING SYSTEM INITIALIZATION) with M-MDS according to the instructions on MGSS online, then perform the drive cycle (a) below:

a. Perform stop and go driving at speeds less than 40 mph (60 km/h) for about 2 miles (3 kilometers) to complete the headlight auto leveling system initialization.

NOTE: Avoid aggressive driving (turning, accelerating and braking) during the drive cycle as heavy G forces may cause the headlight auto leveling system initialization to fail.

b. Park the vehicle with the ignition ON (engine running) and check that the headlights are properly adjusted.

NOTE: If the headlights are not properly adjusted, repeat Step 2a.

3. Erase all DTC(s).
4. Verify the repair.

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WARRANTY INFORMATION

NOTE:

- This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair.
- This repair will be covered under Mazda's New Vehicle Limited Warranty term.
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	62
Damage Code	9W
Part Number Main Cause	D24K-51-225
Quantity	0
Operation Number / Labor Hours:	XXP2WXAX / 0.5 Hr.

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