

Technical Service Bulletin

Mazda North American Operations
Irvine, CA 92618-2922

**Subject:**

SCBS WARNING LIGHT WITH DTC U045A:68 AND/OR PARKING
SENSOR INDICATOR FLASHING WITH DTC B1B36, B1B38,
B1B40 AND/OR B1B42

Bulletin No.: 15-002/22

Last Issued : 11/03/2022

BULLETIN NOTES

This bulletin supersedes the previously issued bulletin(s) listed below. The changes are noted in Red.

Previous TSBs:	Date(s) Issued:
15-002/22	01/27/22

APPLICABLE MODEL(S)/VINS:

2017-**2023** CX-5 with front parking (ultrasonic) sensor

DESCRIPTION

Some vehicles may exhibit either or both of the following symptoms.

1. The SCBS warning light is illuminated with DTC U045A:68 [FORWARD SENSING CAMERA (FSC)].

U045A:68	Error signal received from parking assist unit
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2. The parking sensor indicator is flashing with one or more of the following DTCs of PARKING ASSIST SYSTEM.

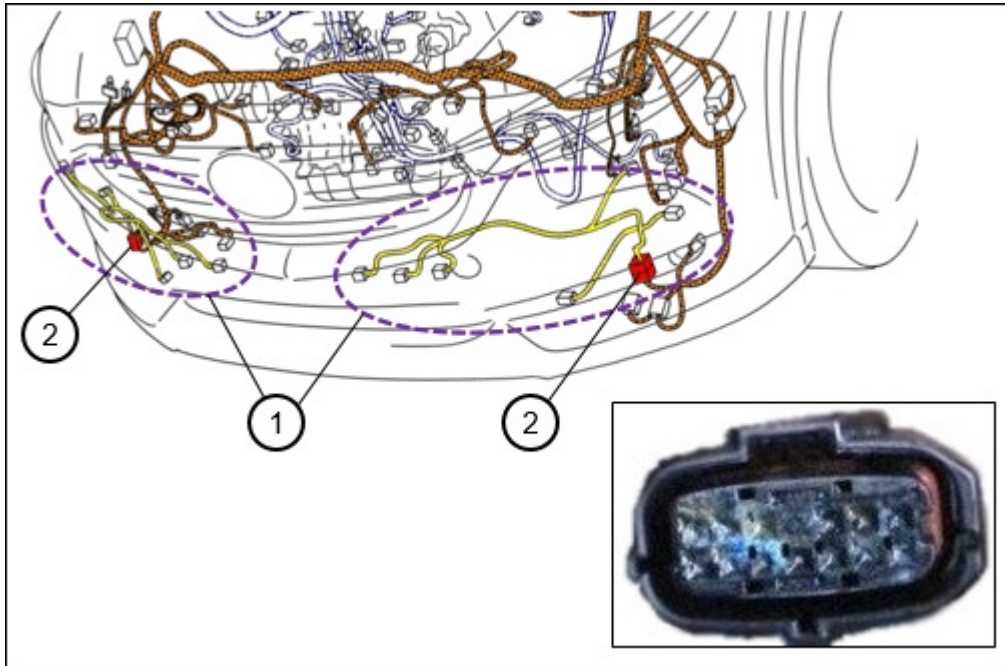
B1B36:14	Front corner ultrasonic sensor (RH) circuit malfunction
B1B36:2A	Front corner ultrasonic sensor (RH) characteristic malfunction
B1B38:14	Front ultrasonic sensor (RH) circuit malfunction
B1B38:2A	Front ultrasonic sensor (RH) characteristic malfunction
B1B40:14	Front corner ultrasonic sensor (LH) circuit malfunction
B1B40:2A	Front corner ultrasonic sensor (LH) characteristic malfunction
B1B42:14	Front ultrasonic sensor (LH) circuit malfunction
B1B42:2A	Front ultrasonic sensor (LH) characteristic malfunction

Due to insufficient waterproof performance of the front harness short cords (1), water may enter in and accumulate in the C-11 (LH) or C-12 (RH) connectors (2) causing a short circuit between wires and an improper signal being sent from the parking (ultrasonic) sensor to the parking sensor unit.

Sample picture shows C-11 connector with water entry and terminal corrosion.

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To eliminate this concern, the production process of the front harness short cord has been improved to increase waterproof performance.

Customers having this concern should have their vehicle repaired using the following repair procedure.

REPAIR PROCEDURE

1. Verify the customer concern.
2. Remove the front bumper according to the instructions on MGSS.
 - 2017-2020 CX-5 (FRONT BUMPER REMOVAL/INSTALLATION)
 - 2021-**2023** CX-5 (FRONT BUMPER REMOVAL/INSTALLATION).
3. Disconnect the C-11 (LH) or C-12 (RH) connector and check for water entry.
 - If there is any water entry in C-11 or C-12 connector, go to next step.
 - If there is no trace of water entry, this Service Information is not applicable. Diagnose for other causes according to the instructions on MGSS.
4. Replace the front harness short cord (1) of the affected side with a modified one.
5. Blow air to remove any water away from the vehicle harness side C-11 or C-12 connector (2) terminals.
6. Check the terminals of the vehicle harness side C-11 or C-12 connector (2) for corrosion.
 - If there is no corrosion, go to next step.
 - If there is corrosion, cut the wiring harness (3) and replace the connector (2) with a new one.

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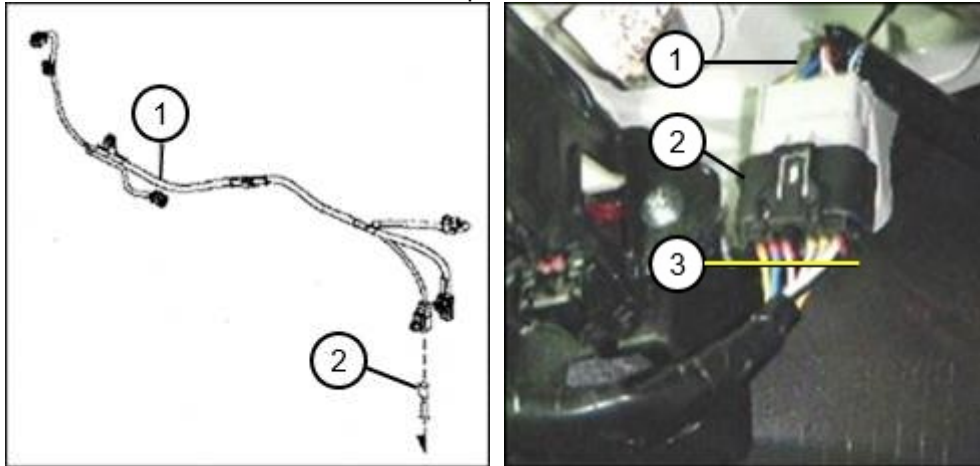
NOTE: For wire cutting, connecting, soldering and protection procedures refer to the following sections on MGSS.
2021 -2023 CX-5

- REPAIR CONNECTOR REPLACEMENT/WIRING HARNESS CONNECTION

2017-2020 CX-5

- WIRING HARNESS CONNECTION PROCEDURE
- REPAIR-USE CONNECTOR REPLACEMENT PROCEDURE

NOTE: The left side is shown as a sample.



7. Install the bumper according to the instructions on MGSS.

- 2017-2020 CX-5 (FRONT BUMPER REMOVAL/INSTALLATION)
- 2021 -2023 CX-5 (FRONT BUMPER REMOVAL/INSTALLATION).

8. [Vehicles with 360°VIEW MONITOR SYSTEM] Perform "Camera aiming adjustment" according to the instructions on MGSS (360°VIEW MONITOR SYSTEM AIMING) since the front bumper (front camera) has been removed.

9. Verify the repair.

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PARTS INFORMATION

Use VIN to lookup correct part number in EPC (D-Code 67-291 (LH) and 67-SH1 (RH))

Model Year	Part Number	Description	Qty.	Notes
2017-2020	K262-67-290A	Cord, Short	1	LH, with 8" Display
2017-2021	K148-67-290	Cord, Short	1	RH, with 8" and 10.25" Display
2021	KJK9-67-290	Cord, Short	1	LH, with 10.25" Display
2022-2023	KSD5-67-290	Cord, Short	1	LH, with 10.25" Display
2022-2023	KSE3-67-290	Cord, Short	1	RH, with 10.25" Display
2017-2023	N2Z8-67-SH3	Cord, Short-Connect	1-2	RH and/or LH
2017-2023	G1Y0-67-TU1	Tube	1-3	See NOTE below

NOTE: Quantity of the tube is as below:

Spec.	Repair	Qty.
with 360 view monitor	Right side only	1
	Left side only	2
	Both sides	2 or 3
without 360 view monitor or with 10.25" center display	One side	1
	Both sides	2

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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	6X
Damage Code	9R
Part Number Main Cause	*****67-290*
Quantity	1
Operation Number / Labor Hours:	- Without 360 view monitor XXP35ARX /0.5 Hrs. (One side) XXP35BRX /0.6 Hrs. (Both sides) - The camera aiming has been completed by performing "Screen Display Verification" only. XXP35CRX /0.7 Hrs. (One side or both sides) - The camera aiming has been completed by performing both "Screen Display Verification" and "Badge Aiming" XXP35ERX /0.7 Hrs. (One side) XXP35FRX /0.8 Hrs. (Both sides) Includes: Bumper Assembly R&R and Front Short Cord (one side or both sides) R&R If the C-11 and/or C-12 connector has been replaced by cutting the wires for terminal corrosion, add the actual labor time with the following operation number. XXP35XRT / Actual Time

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