# Technical Service Bulletin

Mazda North American Operations Irvine, CA 92618-2922



Subject:

FRONT CAMERA SENSOR SYSTEM MALFUNCTION WARNING MESSAGE IN INSTRUMENT CLUSTER AND DTC U0155:00 STORED

**Bulletin No.:** 15-001/19

Last Issued: 01/30/2019

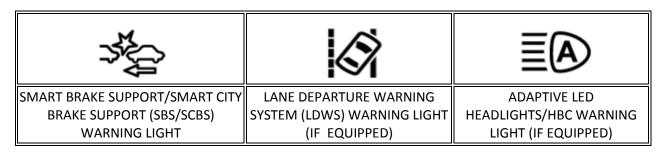
## APPLICABLE MODEL(S)/VINS

2017-2018 CX-5 vehicles with VINs lower than JM3KF\*\*\*\*\*337821 (produced before Dec. 26, 2017)

#### DESCRIPTION

Some vehicles may experience a SBS/SCBS, LAS/LDWS and/or ADAPTIVE LED headlight /HBC warning light on with the DTC U0155:00 stored in memory. The warning lights may stay on while these functions are deactivated.

• DTC U0155:00 - Communication error to instrument cluster.



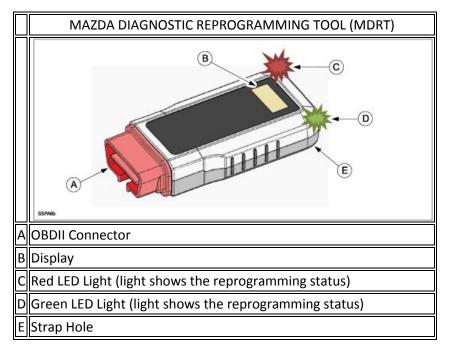
This concern may be caused by faulty Instrument Cluster software. To eliminate this concern, the software has been modified.

NOTE: The Mazda Diagnostic Reprogramming Tool (MDRT) loaner program begins effective Jan. 30, 2019.

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## REPAIR PROCEDURE

- 1. Verify customer concern.
- 2. Order loaner MAZDA DIAGNOSTIC REPROGRAMMING TOOL (MDRT) via Mazda eStore.
- 3. Prepare MDRT to reprogram the Instrument Cluster (IC) software.



**NOTE:** Before performing IC unit reprogramming with MDRT:

- Turn off all electric loads (i.e. air-conditioning, audio system etc.), then connect a battery charger to the vehicle battery.
- DO NOT touch the reprogramming tool while the green light is blinking (with a frequent beeping sound).
- During the reprogramming, the center display and instrument cluster may blink. This is normal.
- Place the advanced key on the center console.

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#### **CAUTION:**

MDRT equipment is sensitive. Handle it gently and avoid disassembly, impact, heat or liquids.

To avoid IC unit damage during reprogramming, otherwise, IC unit replacement may be necessary:

- Do not disconnect the MDRT from the OBDII connector.
- Do not start the engine during reprogramming.
- Do not turn the ignition off during reprogramming.
- 4. Follow Steps 1 8 in the table below to reprogram the IC unit:

Step	Technician Operation	Vehicle Status	MDRT Status	LED Status		Beep Sound	Display	MDRT Removal
				Green	Red			
1	Prepare MDRT			OFF	OFF		(None)	
2	Connect MDRT to vehicle	IG-OFF	Connected	ON	ON	One long beep	Ready	Allowed
3	Turn IG-ON (engine OFF)		System checking	Blink	OFF	Beeping at intervals	Checking	
4	Monitoring MDRT	IG-ON Batt.	Start reprogramming	Flash	OFF	Beeping at intervals	Running	Prohibited (for 1-2 min)
5	Monitoring MDRT	Voltage: 10.5V or	Reprogramming	Blink	OFF	Beeping at intervals	Running	
6	Monitoring MDRT	higher	Finish reprogramming	ON	Blink	Beeping at irregular intervals	Repro OK 084301	Not recommended
7	Turn IG-OFF	IG-OFF	Connected	ON	Blink	Beeping at irregular intervals	Repro OK 084301	Not recommended
8	Disconnect MDRT		Disconnected	OFF	OFF	No beeping	(None)	Allowed

**NOTE:** When the IC unit reprogramming has successfully completed, the MDRT display alternates the messages "Repro OK" 084301", "Repro OK", "Repro OK HEC.C".



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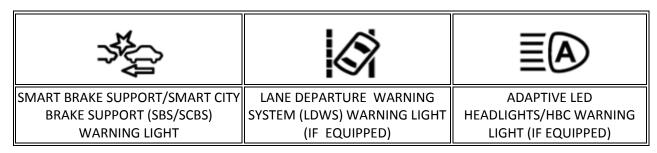
If "Repro OK DTC!!" is displayed at Step 6, check DTCs with M-MDS and repair the DTC(s) according to the instructions on MGSS online.



#### **OCCURANCE EXAMPLE:**

The following warning lights may illuminate and DTC (B115E:54) may be stored.

DTC B115E:54: Forward sensing camera (FSC) aiming not completed.



**NOTE:** If DTC B115E:54 is stored in memory, carry out FSC aiming according to the instructions on MGSS online.

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#### **TROUBLESHOOTING**

## NOTE:

 The step numbers below are related to the step numbers in the IC unit Reprogramming Procedure table.

• The most possible causes are in **bold**.

Step	Technician Operation	Vehicle Status	MDRT Status	LED Status		Beep Sond	Display
3-1	IG-ON	IG-ON	MDRT malfunction	G	OFF	Continuoulsy	Data NG
3-1	10-011	IG-ON	WIDKI Manufiction	R	Illuminate	beeping	
IG-ON with MDRT				G	OFF		
3-2	not securely connected	IG-ON	No power supplied	R	OFF	No Beep	
		Engine run	Check battery	G	OFF	Beeping for 1	Repro NG
3-3	Start engine		voltage. Stop reprogramming	R	Illuminate	sec.	PPRO_NG
	IG-ON	Not a subject vehicle		G	OFF		VIN_NG
4-1			MDRT performs only deleted DTC	R	Blinking at 1 sec. intervals	Continuoulsy beeping	No Target
		IG-ON		G	OFF		Repro NG
4-2	Or lower    '			R	Blinking at 1 sec. intervals	Continuoulsy beeping	ВАТСНК
	Poor MDRT	IG-ON	No power supplied	G	OFF		
5	connection during reprogramming			R	OFF	No Beep	
	Monitor	IG-ON	Ponrogramming	G	OFF		Repro OK
6-2			Reprogramming complete. DTC cannot be detected	R	Blinking at 1 sec. intervals	Continuoulsy beeping	DTC!!

#### NOTE:

- No. 4-1: Verify that the VIN and production date are within the ranges.
- No. 3-1 or No. 6-2: May be caused by the following:
  - The data in the IC unit is faulty
  - The MDRT has a malfunction

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## PARTS INFORMATION

## Special Service Tool (SST)

SST	Notes
Mazda Diagnostic Reprogramming Tool (MDRT)	Order loaner MDRT via Mazda eStore

NOTE: The Mazda Diagnostic Reprogramming Tool (MDRT) loaner program begins effective Jan. 30, 2019.

## **ORDERING Mazda Diagnostic Reprogramming Tool:**

- Dealer MUST HAVE customer's vehicle in the shop before placing the order
- Description: Mazda Diagnostic Reprogramming Tool (MDRT)
- Part Number: 9999-95-MDRT-L
- Place loaner MDRT order via Mazda e-Store
- Bosch will contact the dealer to confirm the customer's vehicle is in the shop. Once confirmed, the MDRT order will ship UPS Next Day delivery
- Shipment will contain a UPS Next Day Air return shipping label

## **RETURNING Mazda Diagnostic Reprogramming Tool:**

- Loaner MDRT must be shipped back the day after dealer receives it (two (2) days from initial ship date from Bosch)
- Dealer MUST use the UPS Next Day Air return label provided in the shipment
- If MDRT loaner tool is not returned on time, dealer will be invoiced \$1,000.00

NOTE: MDRT loaner tool will ship from / to Bosch Automotive Services.

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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.

	IC Reprogramming		
Warranty Type	А		
Symptom Code	62		
Damage Code	9W		
Part Number Main Cause	KL2L-55-430B		
Quantity	0		
Operation Number / Labor Hours:	XXXP7ZXFX / 0.2 Hrs		
Sublet Code:	<b>Z</b> 9		
Sublet Amount:	\$80.00		

#### NOTE:

- A copy of the entire Bosch invoice must be attached using the D14 attachment ID. Failure to do so will result in claim rejection.
- Due to the unique nature of these claims, all accepted claims will pend for adjuster review.

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