



Subject: MDARS II RECORD ON BEHAVIOR (RoB CODES)	Service Alert No.: SA-022/26
	Last Issued : 04/09/2026

BULLETIN NOTES

APPLICABLE MODEL(S)/VINS:

2026 CX-5

DESCRIPTION

X-CODES – Record on Behavior (RoB)

In the new CX-5, only certain control modules use **Record on Behavior (RoB)**.

(Some modules, such as the 7G transmission, record control information as “Operation History (DID)” instead of RoB.)

DTC Format Change

Some Diagnostic Trouble Codes (DTCs) have been expanded from 5 digits to **12 digits**.

Example:

- Current code: **U2701:89-A0**
- New code: **XU2050:55-B0**

Display on MDARS II

Some DTCs are displayed on MDARS II health check as shown in the table below.

Meaning of the “X” Prefix

The “X” in the upper digit (first character) of the DTC means: “**It is not an error; it is just information.**” to assist with diagnostic troubleshooting.

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YCMKM0HB300100023 Battery:12.6V

Health Check Result

Caution

Enhanced Completed: 2025/07/08 13:44:14

System	Hardware	Part Number Info	Software	RoB	DTC
data communication module(DCM)	01 KLBC-67CM0-	01 KLBC-67CK3-			
DTC	Description			Status	FFD
U2701-89	Communication lost with CDC(Ethernet) Data Transfer Failure			Current	*
Maintenance RoB					
Code	Description				
XB2D47.00	Air Data Feed failuer (Out Of Service Area)				
DC-DC converter(DCDC)	KLBC-67ZD3-	KLBC-67ZF2-		-	0
engine control module(ECM)	01 PW5H-18881-	01 PW7L-188K2-E		-	0
integrated starter generator(ISG)	PW1J-18F00-	PW1J-18WF2-C		-	0
Mazda M Hybrid					

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MAZDATEST19950906 Battery:11.0V

i-ACTIVSENSE Domain Unit(ADU) Vehicle Control History (RoB)

STATUS

Code	Behavior	Time and Date	Odometer[km]	Elapsed Time
XC2B16.A1	External Power Failure System Voltage	2294/11/21 04:19:15	54	4[d]19[h]10[m]56[s]
XC2B17.A2	Externally Powered Supply Voltage Low (Unable to use clearance sonar) System Voltage Low	2294/11/21 04:19:15	54	4[d]18[h]29[m]29[s]
XC2B16.A1	External Power Failure System Voltage	2294/11/21 04:19:15	54	4[d]18[h]29[m]12[s]
XC2B17.A2	Externally Powered Supply Voltage Low (Unable to use clearance sonar) System Voltage Low	2294/11/21 04:19:15	54	4[d]17[h]51[m]28[s]
XC2B17.A2	Externally Powered Supply Voltage Low (Unable to use clearance sonar) System Voltage Low	2294/11/21 04:19:15	54	0[d]2[h]20[m]32[s]
XC2B16.A1	External Power Failure System Voltage	2294/11/21 04:19:15	54	0[d]2[h]20[m]19[s]
XC2B17.A2	Externally Powered Supply Voltage Low (Unable to use clearance sonar) System Voltage Low	2294/11/21 04:19:15	54	-
XC2B16.A1	External Power Failure System Voltage	2294/11/21 04:19:15	54	-
XC2B23.54	Forward Millimeter-Wave Radar Sensor Axis Unadjusted Missing Calibration	2294/11/21 04:19:15	54	-
XC2B24.57	Forward Millimeter-Wave Radar Sensor Direction Failure Invalid / incompatible Software Component	2294/11/21 04:19:15	54	-
XC2B33.54	Left Rear Side Millimeter-Wave Radar Sensor Axis Unadjusted Missing Calibration	2294/11/21 04:19:15	54	-
XC2B34.57	Left Rear Side Millimeter-Wave Radar Sensor Direction Failure Invalid / incompatible Software Component	2294/11/21 04:19:15	54	-
XC2B38.54	Right Rear Side Millimeter-Wave Radar Sensor Axis Unadjusted Missing Calibration	2294/11/21 04:19:15	54	-

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MAZDATEST19950906 0.00km

i-ACTIVSENSEドメイン-ユニット(ADU) 車両制御履歴 (RoB) 記録データ

判定結果

項目	単位	検出点	最新					1日前							
			1	2	3	4	5	1	2	3	4	5			
コード		XC2AE6:16	XC2AE6:16	XC2AE6:16	XC2AE6:16	XC2AE6:16	XC2AE6:16	XC2AE6:16	XC2AE6:16	XC2AE6:16	XC2AE6:16	XC2AE6:16	XC2AE6:16	XC2AE6:16	XC2AE6:16
作動内容		IR-LED電源 推奨値以下出力 回路電圧が小さい値未満	IR-LED電源 推奨値以下出力 回路電圧が小さい値未満	IR-LED電源 推奨値以下出力 回路電圧が小さい値未満	IR-LED電源 推奨値以下出力 回路電圧が小さい値未満	IR-LED電源 推奨値以下出力 回路電圧が小さい値未満	IR-LED電源 推奨値以下出力 回路電圧が小さい値未満	IR-LED電源 推奨値以下出力 回路電圧が小さい値未満	IR-LED電源 推奨値以下出力 回路電圧が小さい値未満	IR-LED電源 推奨値以下出力 回路電圧が小さい値未満	IR-LED電源 推奨値以下出力 回路電圧が小さい値未満	IR-LED電源 推奨値以下出力 回路電圧が小さい値未満	IR-LED電源 推奨値以下出力 回路電圧が小さい値未満	IR-LED電源 推奨値以下出力 回路電圧が小さい値未満	IR-LED電源 推奨値以下出力 回路電圧が小さい値未満
走行距離 [km]		0	0	0	0	0	0	0	0	0	0	0	0	0	0
経過時間		-	-	-	-	-	-	-	-	-	-	-	-	-	-
検出日時		2294/11/21 04:19:15	2294/11/21 04:19:15	2294/11/21 04:19:15	2294/11/21 04:19:15	2294/11/21 04:19:15	2294/11/21 04:19:15	2294/11/21 04:19:15	2294/11/21 04:19:15	2294/11/21 04:19:15	2294/11/21 04:19:15	2294/11/21 04:19:15	2294/11/21 04:19:15	2294/11/21 04:19:15	2294/11/21 04:19:15
VSS (車速)	km/h	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AMB_TEMP (外気温)	C	26	26	26	26	26	26	26	26	22	22	22	22	22	22
APP (アクセルペダルポジション)	%	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
BRK_SW (ブレーキペダルポジション)	-	Not Stepping	Not Stepping	Not Stepping	Not Stepping	Not Stepping	Not Stepping	Not Stepping	Not Stepping	Not Stepping	Not Stepping	Not Stepping	Not Stepping	Not Stepping	Not Stepping
ECT (エンジン冷却水道)	C	25	25	25	25	25	25	25	39	39	39	39	39	39	39
ENG_RPM (エンジン回転数)	rpm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENG_RUN_TIME (エンジンスイッチON後の経過時間)	sec	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IG_ON_TIMER (IG-ON後の経過時間)	min	59.20	53.20	53.20	55.20	57.20	57.20	57.20	209.00	204.00	205.00	207.00	207.00	207.00	207.00
MOTOR_RPM (モータ回転数)	rpm	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000
POWER_MODE (エンジンスイッチの状態)	-	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
SHIFT_POS (シフトポジション)	-	Parking	Parking	Parking	Parking	Parking	Parking	Parking	Parking	Parking	Parking	Parking	Parking	Parking	Parking
SOC (Pbバッテリー充電状態)	%	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0
SOC2 (LiVバッテリー充電状態)	%	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0

Example of RoB in MDARS II

This screen shows RoB (Record on Behavior) data from the i-ACTIVSENSE Domain Unit (ADU).

You can see many lines with codes that start with "XC" (for example: XC2E17:00, XC2A7E:00, XC2E25:00, etc.).

These are RoB records.

What does this mean? RoB records are not real faults or Diagnostic Trouble Codes (DTCs). They are simply a history log of normal vehicle behaviors and system operations.

Examples of what these RoB records show:

- Smart Brake Support (SBS) operating during parking or low-speed driving
- Blind Spot Monitoring (BSM) operating
- Driver Monitor Camera detecting dirt or backlighting
- Lane Change Assist operating
- Steep Steering

Important Information:

- These RoB codes can appear when you read the vehicle's control history in MDARS II.
- These codes will be found in the Workshop Manual.
- This is completely normal.

RoB codes are internal records of normal operation — they are not errors and do not need to be repaired.

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File Notes

- Activity Report
- Health Check
- 03/28/2026 10:53
- 03/28/2026 10:54
- ACTIVENSE Domain Unit(ADU)
- RoB
- 03/28/2026 10:53
- 03/28/2026 10:53

JMKMHEA4T0105352

i-ACTIVENSE Domain Unit(ADU) Vehicle Control History (RoB) Stored Data

Code	Behavior	Status	Time and Date	Occurrences	Elapsed Time
XC2E17.00	SBS(Smart Brake Support) Operation during Parking or Low Speed Driving	Past	11/20/2294 12:19:15	133 84335648	-
XC2E17.00	SBS(Smart Brake Support) Operation during Parking or Low Speed Driving	Past	04/09/2056 09:08:29	133 84335648	-
XC2AE7.00	Driver Monitor Camera On	Past	04/09/2056 02:22:38	132 6627512	0(02/07/05-05)
XC2AE8.00	Driver Monitor Camera Backlight Detection	Past	04/09/2056 02:22:38	132 6627512	0(02/07/05-05)
XC2AE7.00	Driver Monitor Camera On	Past	04/09/2056 02:08:25	131 35787168	0(02/07/05-05)
XC2AE8.00	Driver Monitor Camera Backlight Detection	Past	04/09/2056 02:08:25	131 35787168	0(02/07/05-05)
XC2E11.00	CTS (Cruising & Traffic Support) - Lane Change Assist	Past	11/20/2294 12:19:15	130 98504896	-
XC2E11.00	CTS (Cruising & Traffic Support) - Lane Change Assist	Past	04/05/2056 14:24:24	130 98504896	-
XC2E09.00	Steep Steering	Past	04/05/2056 13:07:51	114 51871216	-
XC2E1A.00	BSM (Blind Spot Monitoring) operation	Past	04/05/2056 12:18:24	43 62625240	-
XC2E1A.00	BSM (Blind Spot Monitoring) operation	Past	04/05/2056 12:18:11	43 69584	-
XC2E17.00	SBS(Smart Brake Support) Operation during Parking or Low Speed Driving	Past	04/05/2056 11:27:09	6 710889600	-
XC2E25.00	SBS(Smart Brake Support) during Parking or Low Speed Driving (Front and Rear Stationary Object)	Past	04/05/2056 11:07:54	5 2816552	-
XC2E25.00	SBS(Smart Brake Support) during Parking or Low Speed Driving (Front and Rear Stationary Object)	Past	04/05/2056 11:07:53	5 2816552	-
XC2E25.00	SBS(Smart Brake Support) during Parking or Low Speed Driving (Front and Rear Stationary Object)	Past	04/05/2056 11:07:53	5 2816552	-
XC2E09.00	Steep Steering	Past	04/02/2056 15:53:55	4 8466936	-
XC2E1A.00	BSM (Blind Spot Monitoring) operation	Past	04/02/2056 15:49:06	4 79455824	-
XC2E15.07	COF Communication Failure (Steer Vibe) Missing Message	Past	04/02/2056 15:01:35	4 478726400	-
XC2E17.00	SBS(Smart Brake Support) Operation during Parking or Low Speed Driving	Past	04/02/2056 15:01:23	4 478726400	-
XC2E17.00	SBS(Smart Brake Support) Operation during Parking or Low Speed Driving	Past	11/20/2294 12:19:15	4 4117352	-
XC2AE7.00	Driver Monitor Camera On	Past	04/02/2056 15:29:32	4 4117352	6(11/09/05-05)
XC2AE8.00	Driver Monitor Camera Backlight Detection	Past	04/02/2056 15:29:32	4 4117352	6(11/09/05-05)
XC2E11.00	CTS (Cruising & Traffic Support) - Lane Change Assist	Past	11/20/2294 12:19:15	4 349584	-
XC2E11.00	CTS (Cruising & Traffic Support) - Lane Change Assist	Past	11/20/2294 12:19:15	4 287612800	-
XC2A65.04	Malfunction Failure System Internal Failure	Past	03/05/2056 13:29:24	4 0389128	-
XC2E17.00	SBS(Smart Brake Support) Operation during Parking or Low Speed Driving	Past	03/21/2056 10:21:23	3 4175416	-
XC2E1B.00	BSM(Blind Spot Monitoring) - Vehicle Exit Warning	Past	02/03/2056 12:28:52	2 7346332800	-

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