



# Technical Service Bulletin

SUBJECT:		NO: <b>TSB-22-42B-001</b>	
<b>UPDATE TO KEYLESS OPERATION SYSTEM (KOS) CONTENT – SERVICE MANUAL REVISION</b>		DATE: <b>JULY 2022</b>	
		MODEL: <b>2022 ECLIPSE CROSS</b>	
<b>CIRCULATE TO:</b>	<input type="checkbox"/> GENERAL MANAGER	<input checked="" type="checkbox"/> PARTS MANAGER	<input checked="" type="checkbox"/> TECHNICIAN
<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input checked="" type="checkbox"/> WARRANTY PROCESSOR	<input type="checkbox"/> SALES MANAGER

## PURPOSE

This TSB provides updated content for the Keyless Operation System section of the 2022 Eclipse Cross Service Manual.

## AFFECTED VEHICLES

- 2022 Eclipse Cross

## AFFECTED SERVICE MANUAL

- 2022 Eclipse Cross Service Manual, Group 42B - Keyless Operation System



Please refer to the following information and chart to replace the page in the 2022 Eclipse Cross Service Manual, Group 42B - Keyless Operation System section:

- 2022 Eclipse Cross Service Manual, Group 42B - Keyless Operation System > Diagnosis > Diagnostic Trouble Code Procedures

Applicable manual	Pub. No.	Applicable title (Info-ID/SIE No.)	Content
2022 ECLIPSE CROSS SERVICE MANUAL	MSCD-020B-2022	KEYLESS OPERATION SYSTEM (KOS) >DIAGNOSIS >DIAGNOSTIC TROUBLE CODE PROCEDURES > DTC B1A08 Keyless/KOS key1 performance > DTC B1A09 Keyless/KOS key2 performance > DTC B1A0A Keyless/KOS key3 performance > DTC B1A0B Keyless/KOS key4 performance	Attached sheet 12

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## 42B-28

KEYLESS OPERATION SYSTEM (KOS)  
DIAGNOSIS

## DIAGNOSIS

**STEP 1. Using scan tool (M.U.T.-IIISE), diagnose the CAN bus line**

Use the scan tool (M.U.T.-IIISE) to diagnose the CAN bus lines.

**Q: Is the check result normal?**

**YES** : Go to Step 2.

**NO** : Repair the CAN bus line (Refer to GROUP 54C - Diagnosis [P.54C-20](#)).

**STEP 2. Using scan tool (M.U.T.-IIISE), check the other system DTC.**

(1) Check that the vehicle power can be turned ON and engine is started.

(2) Check the DTC of ECM.

**Q: Is the DTC set?**

**YES** : Troubleshoot the ECM (Refer to GROUP 13A - Diagnosis [P.13A-46](#)). Then go to Step 3.

**NO** : Go to Step 3.

**STEP 3. Check whether the DTC is set again.**

(1) Operate the engine switch several times within five seconds without depressing the brake pedal to turn ON and OFF the power supply mode.

(2) Check again if the DTC is set in the KOS&OSS-ECU.

**Q: Is the DTC set?**

**YES** : Replace the KOS&OSS-ECU and register the ID codes (Refer to [P.42B-76](#)). Then go to Step 4.

**NO** : Intermittent malfunction is suspected (Refer to GROUP 00 - How to Use Troubleshooting/Inspection Service Points - How to Cope with Intermittent Malfunction [P.00-16](#)).

**STEP 4. Check whether the DTC is set again.**

Check again if the DTC is set in the KOS&OSS-ECU.

**Q: Is the DTC set?**

**YES** : Replace the ECM (Refer to GROUP 13A - ECM [P.13A-807](#)).

**NO** : Intermittent malfunction is suspected (Refer to GROUP 00 - How to Use Troubleshooting/Inspection Service Points - How to Cope with Intermittent Malfunction [P.00-16](#)).

**DTC B1A08 Keyless/KOS key1 performance**

**DTC B1A09 Keyless/KOS key2 performance**

**DTC B1A0A Keyless/KOS key3 performance**

**DTC B1A0B Keyless/KOS key4 performance**

**CAUTION**

When replacing the ECU, always check that the communication circuit is normal.

**DIAGNOSTIC FUNCTION**

If KOS&OSS-ECU receives wrong signal from the keyless operation key, KOS&OSS-ECU memorizes DTC B1A08, B1A09, B1A0A or B1A0B.

**PROBABLE CAUSES**

- Malfunction of the keyless operation key
- Malfunction of the KOS&OSS-ECU

<Renumbered>

## DIAGNOSIS

**STEP 1. Operate the keyless operation key, and recheck the DTC.**

(1) Open the driver's door. <Added>

(2) Operate the keyless operation key as follows:

- Push the lock switch or unlock switch of keyless operation key five times or more.
- When the keyless entry function does not work after performing the above procedure, register the key again (Refer to [P.42B-72](#)).

(3) Push the lock switch or unlock switch of keyless operation key.

(4) Check if the DTC is set.

**Q: Is the DTC set?**

**YES** : Perform troubleshooting if KOS&OSS-ECU DTC except No.B1A08, B1A09, B1A0A or B1A0B is set. Then go to Step 2.

**NO** : The diagnosis is complete.