



GROUP	MODEL
Customer Satisfaction	2012-2021MY Rio (UB, SC)
NUMBER	DATE
2307	April 2023

## TECHNICAL SERVICE BULLETIN

SUBJECT: **CUSTOMER SATISFACTION: ANTI-THEFT S/W LOGIC  
UPGRADE & DECAL INSTALLATION (CS2307)**

This bulletin provides the procedure to upgrade the software logic of the Integrated Body Control Unit (IBU) or Body Control Module (BCM) system on some 2012-2017MY Rio (UB), 2018-2021MY Rio (SC) vehicles produced from June 1, 2017 through October 25, 2021, which may not be equipped with an immobilizer. This logic upgrade will add anti-theft ignition start logic to the vehicle's system operation. Follow the procedure outlined in this publication to apply the improved logic to the 'IBU-BCM' system using the KDS ECU Upgrade function as described in this bulletin. For confirmation that the latest reflash has been applied to a vehicle you are working on, verify the ROM ID using the table on page 3 of this bulletin.

Window decals should also be applied to both front windows in accordance with the instructions on page 8 to indicate this anti-theft S/W logic upgrade has been completed (unless a customer specifically requests they not be installed). An initial supply of window decals will be shipping directly to dealers. Should there be a delay in receipt of this supply, please track any customers that may need window decals installation upon receipt of the stickers.



### NOTICE

To assure complete customer satisfaction, always remember to refer to **WebDCS Warranty Coverage (validation) Inquiry Screen (Service → Warranty Coverage → Warranty Coverage Inquiry)** for a list of any additional campaigns that may need to be performed on the vehicle before returning it to the customer.

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### ECU Upgrade Procedure:

#### ❗ IMPORTANT

Since the launch of this software upgrade, Kia has identified a compatibility issue involving vehicles equipped with a remote start accessory which results in the activation of the burglar alarm when the remote start is used. Therefore, we would like to delay installation of the software upgrade until we can investigate and address this compatibility issue unless the customer is aware of this issue and specifically requests the upgrade anyway.

To correct this condition, the ECU should be reprogrammed using the KDS download, as described in this bulletin.

Upgrade Event Name
TBD UB BCM UPGRADE FOR NON-IMMO VEHICLE
678. SC BCM UPGRADE FOR NON-IMMO VEHICLE

#### 📄 NOTICE

- Confirm a fully charged battery (12.3 volts or higher is necessary) is used or utilize a fully charged jump starter box connected to the battery.
- **Ensure the KDS GDS is sufficiently charged at 60% or higher prior to reflash.**
- All ECU upgrades must be performed with the ignition set to the 'ON' position unless otherwise stated.
- **Damaged VCI II units should not be used and promptly replaced.**
- Be careful not to disconnect the VCI-II connected to the vehicle during the ECU upgrade procedure.
- **DO NOT start the engine during ECU upgrade.**
- DO NOT turn the ignition key 'OFF' or interrupt the power supply during ECU upgrade.
- **When the ECU upgrade is completed, turn the ignition 'OFF' and wait 10 seconds before starting the engine.**
- ONLY use approved ECU upgrade software designated for the correct application.


#### ❗ IMPORTANT

It is recommended to ALWAYS check the Electronic Parts Catalog (EPC) to locate the ECU Part Number respective to Auto/Manual Mode ROM IDs. DO NOT reference the parts label affixed to the ECU.

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### NOTICE

Before attempting an ECU upgrade on any Kia model, make sure to first determine whether the applicable model is equipped with an immobilizer  security system. Failure to follow proper procedures may cause the PCM to become inoperative after the upgrade and any claims associated with this repair may be subject to chargeback.

### ROM ID INFORMATION TABLE:

Upgrade Event #678

Model	MY	System	IMMO		ECU P/No.	ROM ID	
						Previous	New
UB	12-18	IBU	No				TBD
SC	18-21				95400 H9770 95400 H9840 95400 H9850 95400 H9880 95400 H9890	1.00 2.00 3.00 4.00	4.10

*To verify the vehicle is affected, be sure to check the Calibration Identification of the vehicle's ECM ROM ID and reference the Information Table as necessary.*

***DO NOT perform a 'Manual Mode' upgrade if the ECU PN is not listed.***



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## NOTICE

**Prior to performing the ECU upgrade, be sure to check that the KDS is fully charged.**

1. Connect the VCI-II to the OBD-II connector, located under the driver's side of the instrument panel.

## NOTICE

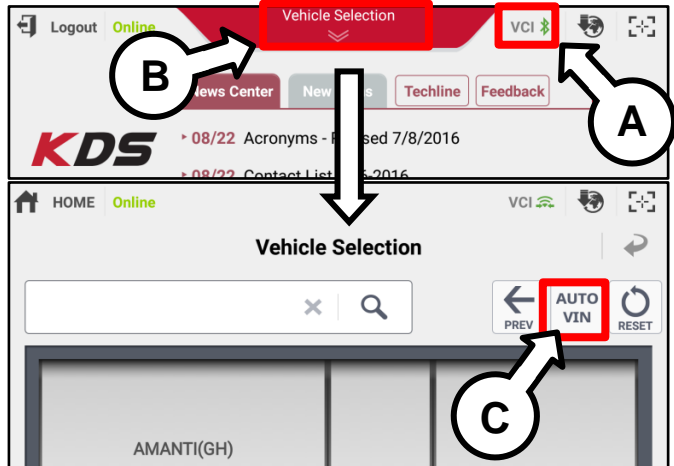
The ECU upgrade function on KDS operates wirelessly. It is not necessary to perform the upgrade via USB cable.



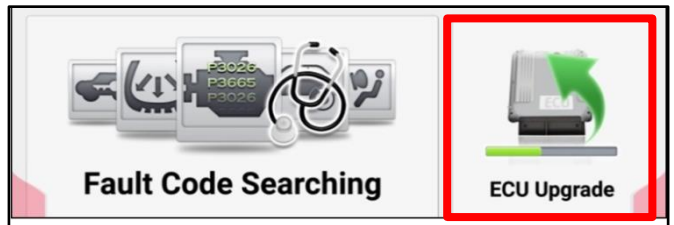
2. With the ignition ON, turn ON the KDS tablet. Select 'KDS' from the home screen.



3. Confirm communication with VCI (A) and then configure the vehicle (B) using the 'AUTO VIN' (C) feature.



4. Select 'ECU Upgrade'.



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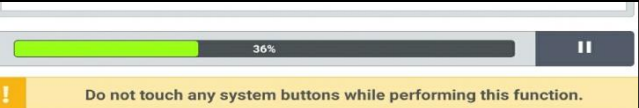
- The KDS will check the server for recently uploaded Events and then automatically download Upgrade Event #678 SC BCM UPGRADE FOR NON-IMMO VEHICLE.

### NOTICE

The vehicle must be identified in Vehicle Selection to download an Event for that vehicle.

After the download is complete, the program will shut down to install.  
Please wait until the program restarts.

Event	Status
271.QF 2.4GDI DTC P0171,P0420 LOGIC IMPROVEMENT	Downloading
273.TF 2.4GDI DTC P0171,P0420 LOGIC IMPROVEMENT	Ready

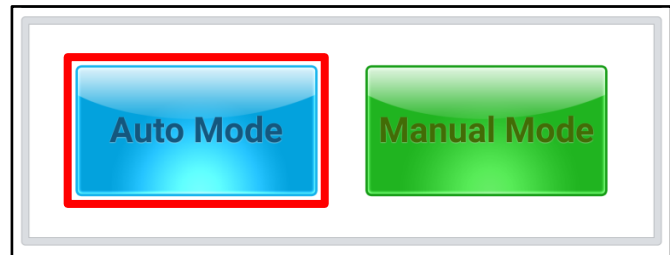


KDS screenshot shown above is for demonstration purposes only. Events shown in screenshot are not applicable to this bulletin.

- Select Auto Mode.

### CAUTION

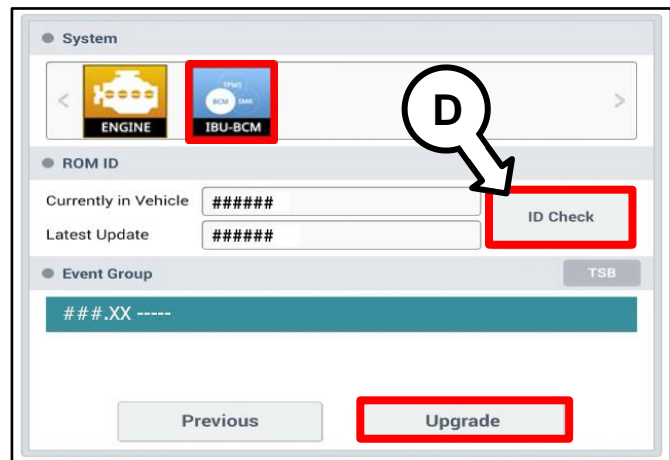
Do NOT attempt to perform a Manual Mode upgrade UNLESS Auto Mode fails. Always follow the instructions given on the KDS in either Auto or Manual mode.



- Select IBU-BCM under the System selection menu.

Touch ID Check (D) and confirm that the latest update is available.

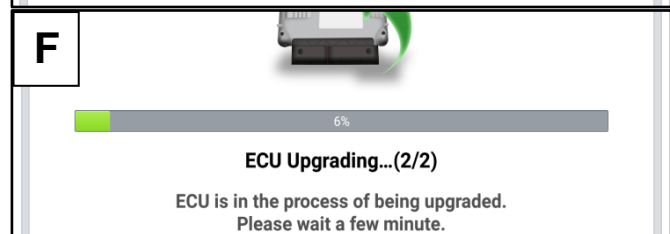
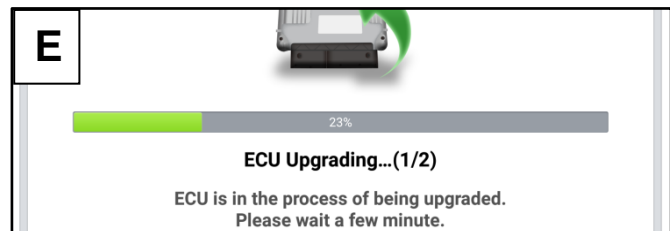
Select Upgrade Event #678 SC BCM UPGRADE FOR NON-IMMO VEHICLE and select 'Upgrade' to continue.



- The ECU upgrade will begin and the progress of the upgrade will appear on the bar graph. Upgrade part (1/2) (E) will download the upgrade event to the VCI-II. Upgrade part (2/2) (F) will upgrade the ECU.

### CAUTION

Do not touch the system buttons (like 'Back', 'Home', 'etc.') while performing ECU Upgrade.



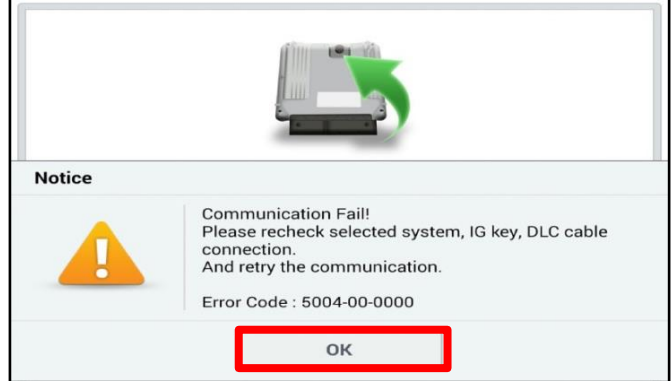
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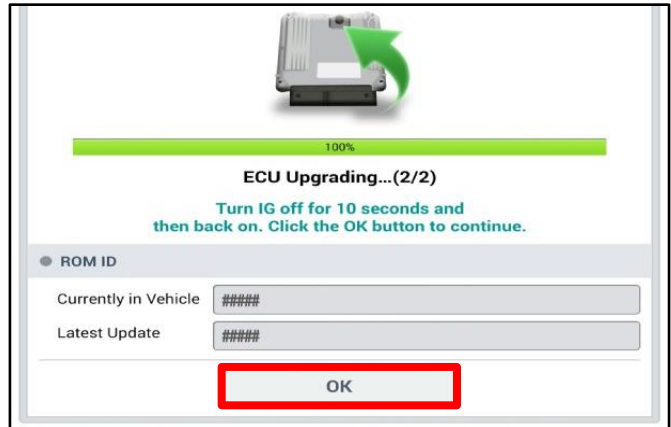
9. If a "Communication Fail" screen appears, verify that the VCI-II and KDS are communicating properly. Select 'OK' and restart the from step 4.

**NOTICE**

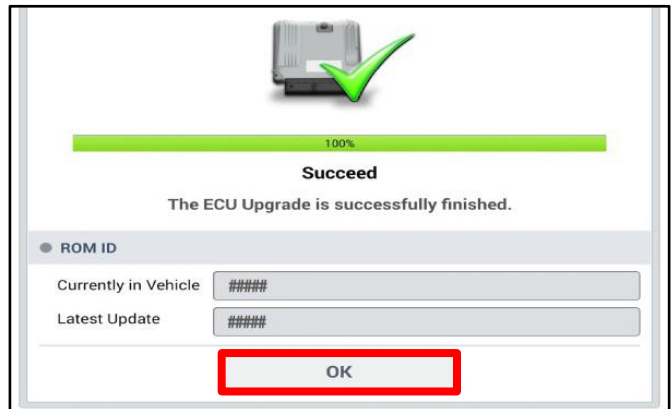
**If an error notice continues to appear or if the upgrade cannot be performed, DO NOT disconnect the KDS/VCI-II. Contact GIT America Help Desk at (888) 542-4371 or Techline.**



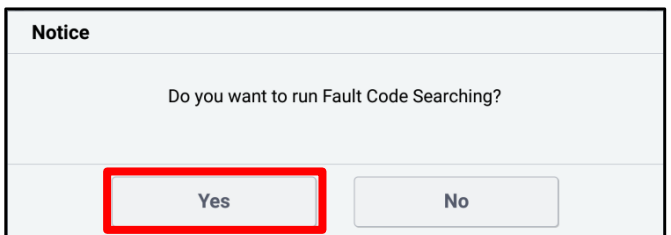
10. When instructed on the KDS, turn the ignition OFF for ten (10) seconds then back on. Select 'OK' to continue.



11. Once the upgrade is complete, select 'OK' to finalize the procedure.



12. When prompted, select 'YES' to check for Diagnostic Trouble Codes (DTC) and erase any DTCs stored such as EPS, ESC, and TPMS that may have been set during the upgrade.



13. Start the engine to confirm normal operation of the vehicle.



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### Manual Upgrade Procedure:

#### NOTICE

The manual upgrade should ONLY be performed if the automatic upgrade fails.

**If the automatic upgrade fails, turn the ignition 'OFF' for about 10 seconds then place it back in the 'ON' position to reset the control unit BEFORE performing manual upgrade.**

See table below for 'Manual Mode' passwords.

### Manual Mode ECU Upgrade Passwords

No.	Menu	Password
#678	SC BCM : 95400-H9770/840/850/880/890	9890
	UB BCM:	TBD

1. Within the ECU Upgrade screen displayed, select **Manual Mode**.
2. Select the **IBU-BCM** system under the System selection menu. Select **Upgrade Event #678** and select **Upgrade** to continue.
3. Select the appropriate control unit part number with reference to the ROM ID Information Table on page 3, and select **OK**.
4. Enter the appropriate password from the Manual Mode password table above and select **OK**.
5. The upgrade will begin and the progress of the upgrade will appear on the bar graph.
6. When instructed on the KDS, turn the ignition **OFF** for ten (10) seconds then back on. Select **OK**.
7. Once the upgrade is complete, select **OK** to finalize the procedure.
8. When prompted, select **YES** to check for Diagnostic Trouble Codes (DTC) and erase any DTCs stored such as EPS, ESC, and TPMS that may have been set during the upgrade.
9. Start the engine to confirm proper operation of the vehicle.



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## Decal Installation Procedure:

1. Print this page to 100% scale.
2. Cut-out the template sheet along the black dotted lines.  
(Save the template for future use on other vehicles)



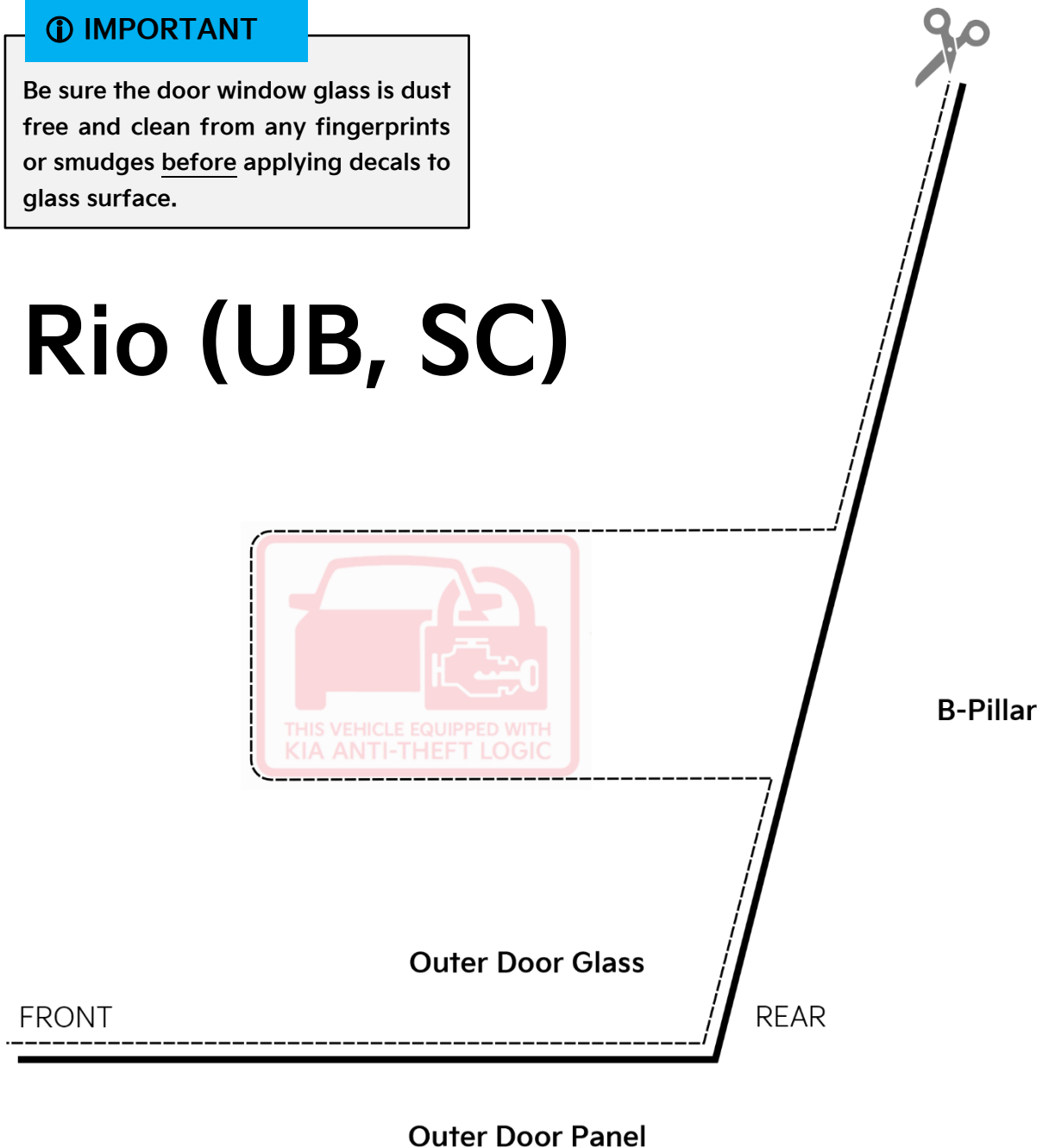
*Continued on page 9.*

Two (2) decals required per vehicle.

### ⓘ IMPORTANT

Be sure the door window glass is dust free and clean from any fingerprints or smudges before applying decals to glass surface.

# Rio (UB, SC)





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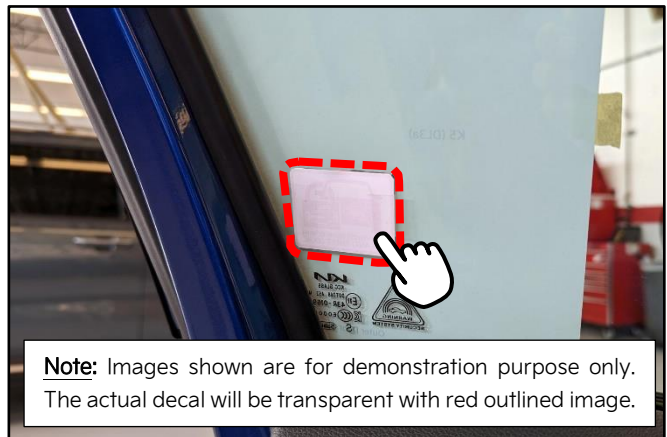
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- 3a. Confirm that the door glass is completely in the up position.
- 3b. Using masking tape (or similar no-residue tape), adhere the template sheet to the outside of the left driver front door glass as shown.

**Note:** Be sure that the template outlined edges are flush against the inner side and bottom door window trim.



- 4a. Carefully expose leading edge of label adhesive by simultaneously pulling back on liner and pushing leading edge of label forward. **DO NOT TOUCH ADHESIVE.**
- 4b. Once approximately half of the label is removed from the liner, position the label on the **INSIDE** of the driver's door window (aligned to template box).



**Note:** Images shown are for demonstration purpose only. The actual decal will be transparent with red outlined image.

- 5a. From the outside of the vehicle, confirm that the decal is perfectly aligned inside the template box.
- 5b. From the inside, begin to press on the decal in a forward direction (pushing any air bubbles out) until the label is fully applied to the window.
6. Remove the template sheet from the door glass and turn the paper sheet over to prepare for use on the right passenger side.
7. Repeat steps 3-5 for the right passenger side door glass.



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### Other things to consider:

#### Vehicles equipped with 'aftermarket' window tint:

Be sure to get the customer's approval to install the 'Kia Anti-Theft Logic' decals if the vehicle has aftermarket window tint installed as they will adhere to the tint film surface and not the door glass surface, and alert customer that the 'Kia Anti-Theft Logic' decals may not be visible through the tint film from outside the vehicle.

#### For 'California' state vehicles only:

The Proposition 65 decal may still be present on the inner front door glass. Be sure to get the customer's approval to remove this decal from the inner door glass before installing the 'Kia Anti-Theft Logic' decals.


### AFFECTED VEHICLE RANGE:

Model	Production Date Range
Rio (UB)	TBD
Rio (SC)	June 1, 2017 to October 25, 2021

### REQUIRED TOOL:

Tool Name	Figure	Comments
KDS		Kia Diagnostic System

### REQUIRED PART:

Part Name	Part Number	Figure	Qty
'Kia Anti-Theft Logic' Decal*	SO230 ATL		2 (Auto-shipped to dealers in a roll containing 100 qty.)

**\*Note:** Decals may not be available at the time this bulletin is released. Estimated time of delivery for decals will begin the week of January 30, 2023. Additional orders may be made through Archway (866) 542-6268 when decals are available. Please track any customers that may require window decals if unavailable at the time of the anti-theft S/W upgrade.

### WARRANTY INFORMATION:

**N Code: N99 C Code: C99**

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
UB	V	95400 C6000	0	(CS2307) IBU-BCM S/W Logic Upgrade + Decal Installation	TBD	0.3 M/H	N/A	0
SC					CS2307RB			