

TECHNICAL INSTRUCTIONS
FOR
23LD04
GPS Antenna May Not Receive Power
CERTAIN
2024 Model Year NX250, NX350, NX350H, and NX450H+

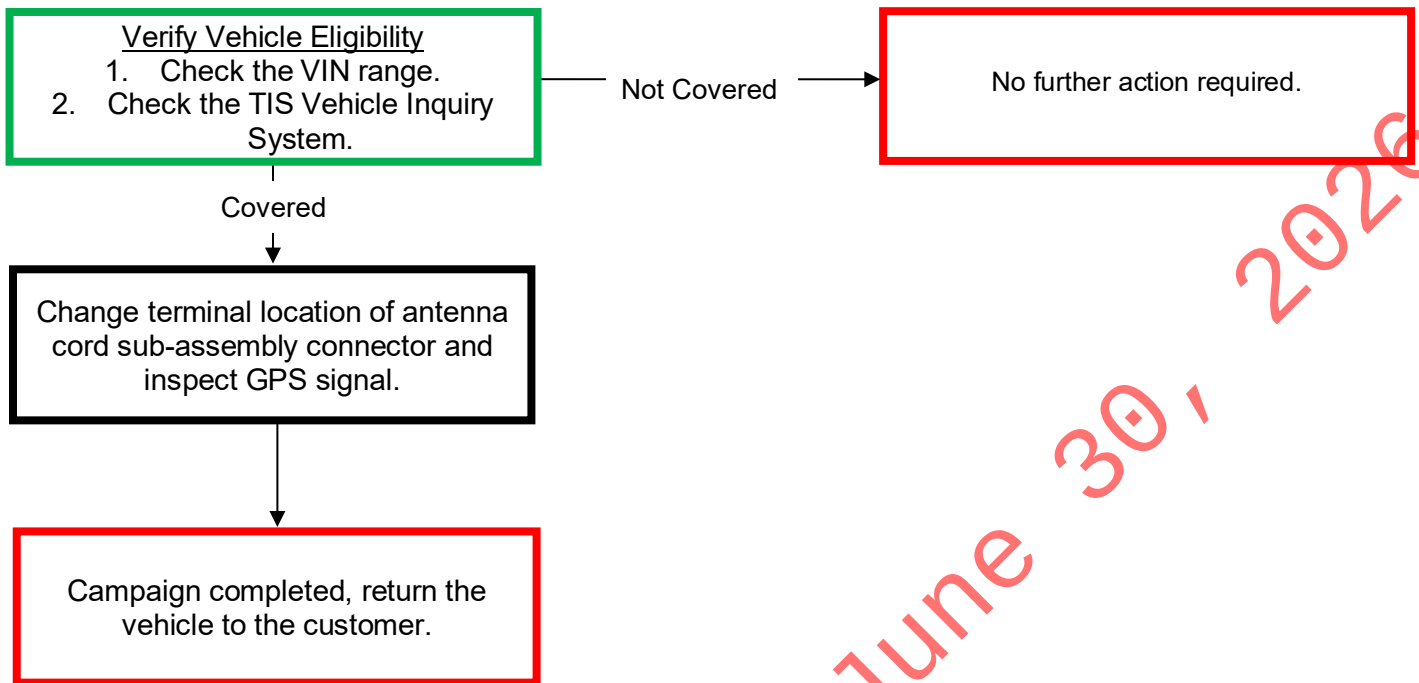
The repair quality of covered vehicles is extremely important to Toyota. All dealership technicians performing this recall are required to successfully complete the most current version of the E-Learning course "Safety Recall and Service Campaign Essentials". To ensure that all vehicles have the repair performed correctly; technicians performing this recall repair are required to complete the following course:

- LIC206A Electrical Repair 1

It is the dealership's responsibility to select technicians who have completed the above course to perform this campaign repair. Carefully review your resources, the technician's skill level, and ability before assigning technicians to this repair. It is important to consider technician days off and vacation schedules to ensure there are properly trained technicians available to perform this repair at all times.

I. OPERATION FLOW CHART

The flow chart is for reference only. DO NOT use it in place of the full technical instructions. Follow ALL steps as outlined in the full technical instructions to confirm the campaign is completed correctly.



II. IDENTIFICATION OF AFFECTED VEHICLES

1. CHECK VEHICLE FOR CAMPAIGN ELIGIBILITY

- Compare the vehicle's VIN to the VIN listed on the Repair Order to ensure they match.
- Check the TIS Vehicle Inquiry System to confirm the VIN is involved in this Campaign, and that it has not already been completed.

NOTICE:

TMNA warranty will not reimburse dealers for repairs completed on vehicles that are not affected or were previously completed, even by another dealer.

III. PREPARATION

A. PARTS

No parts are needed for this campaign. If the connector is broken or damaged during the repair, please email QC@lexus.com for a replacement.

B. TOOLS, SUPPLIES & EQUIPMENT

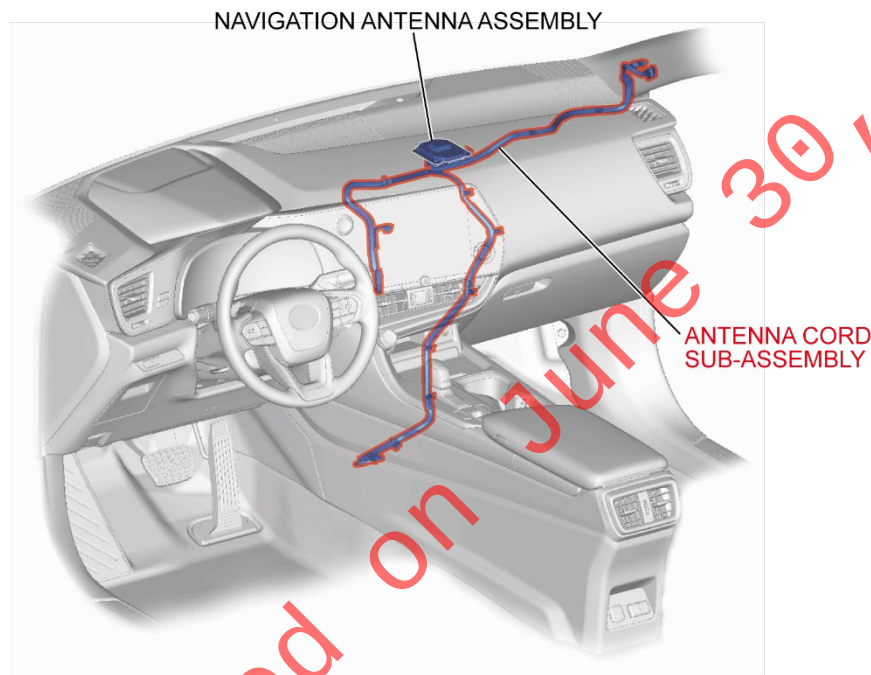
Part Number	Part Description	Quantity
-	Pick Tool A	1
-	Pick Tool B	1

- Standard Hand Tools
- Protective Gloves
- Techstream ADVi / Techstream 2.0 / Techstream Lite
- Printer Paper and Tape (for Spacer)
- Torque Wrench
- Marker Pen or Colored Tape
- Protective Tape
- Remover E, Moulding

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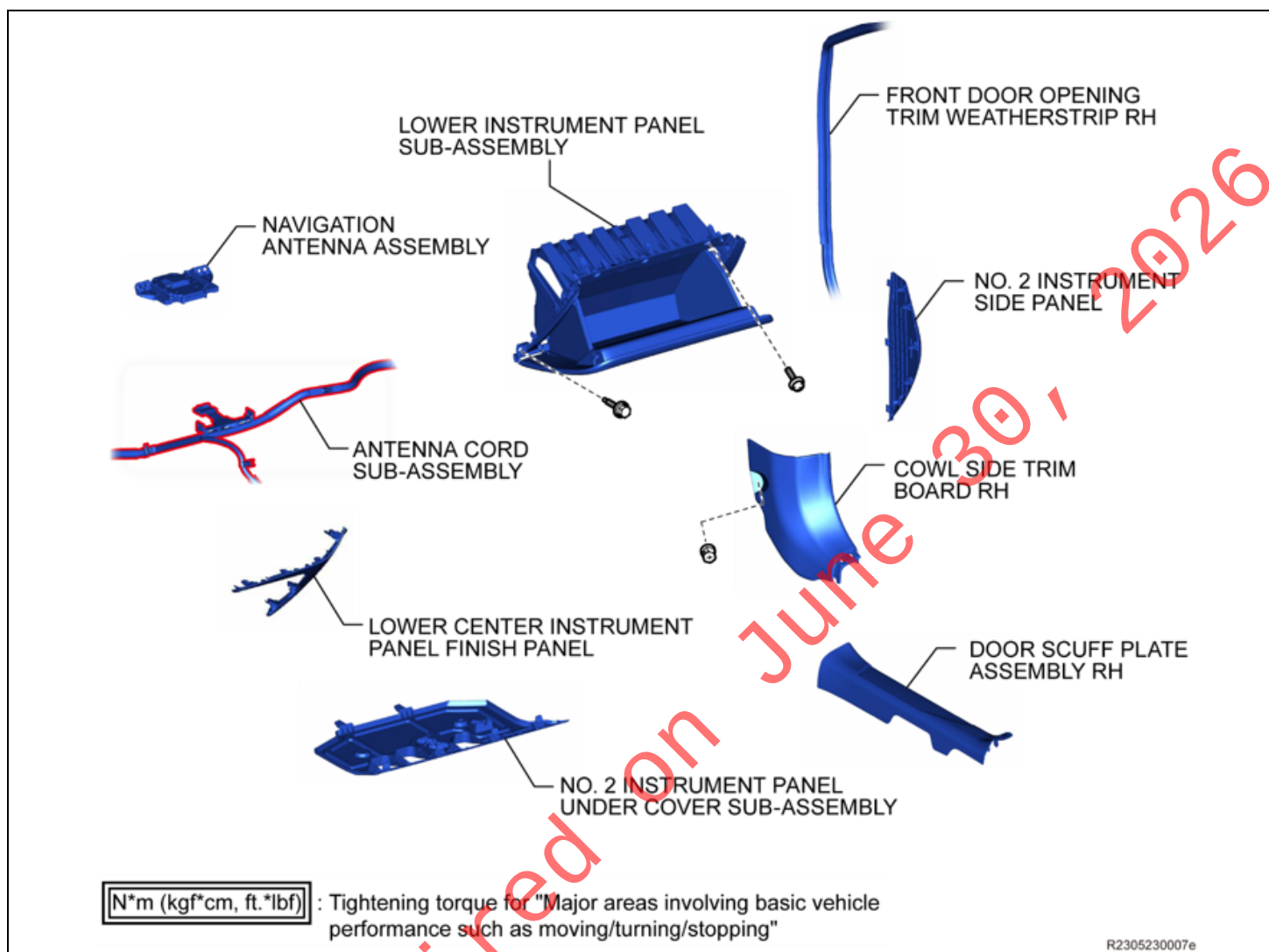
IV. BACKGROUND

The subject vehicles are equipped with a GPS antenna wire harness which connects the antenna to the Data Communication Module (DCM). Due to the design of the wire harness, the GPS antenna will not receive power and will be inoperable when the vehicle is off. As a result, the vehicle location cannot be identified through stolen vehicle location services when the vehicle is off.



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V. COMPONENTS



VI. REMOVE SURROUNDING PARTS



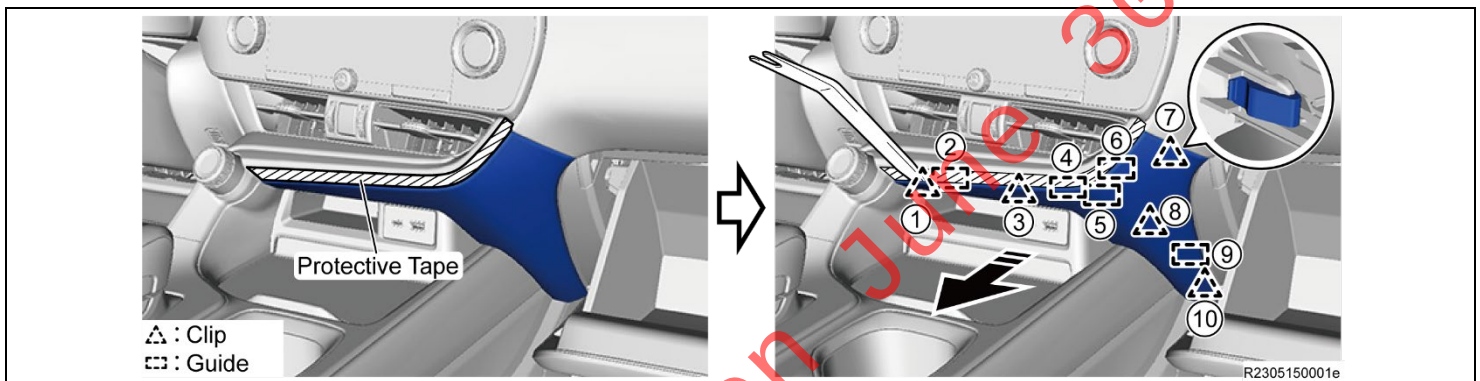
1. CHECK FOR DTCS

- Using a Techstream, perform a Health Check to check for any Diagnostic Trouble Codes.

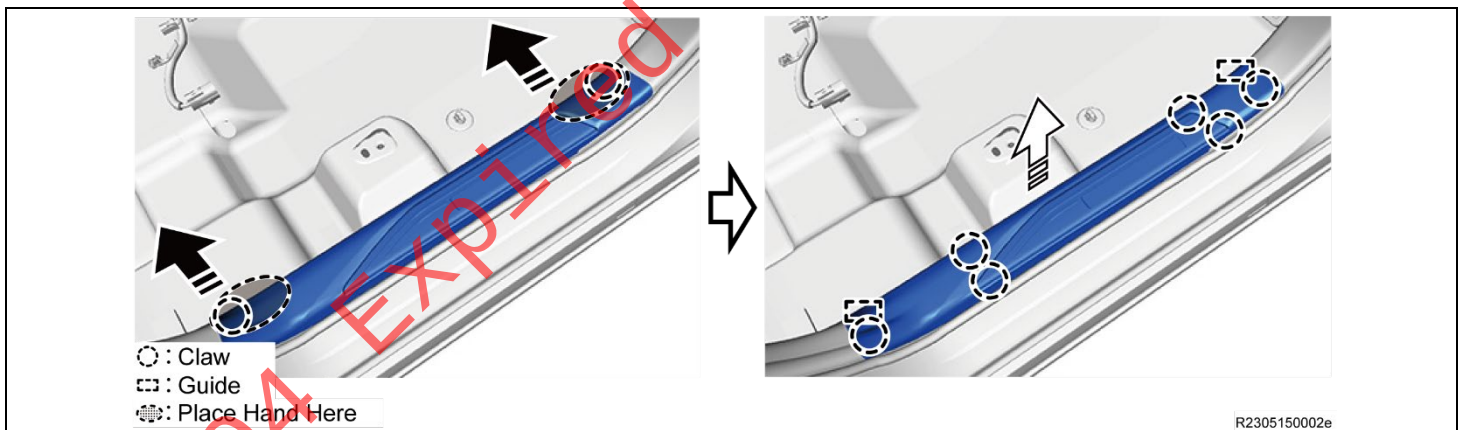
Note: This campaign covers only the GPS antenna inspection. It does not cover the diagnosis or replacement of any other parts of the vehicle.

2. REMOVE LOWER CENTER INSTRUMENT PANEL FINISH PANEL

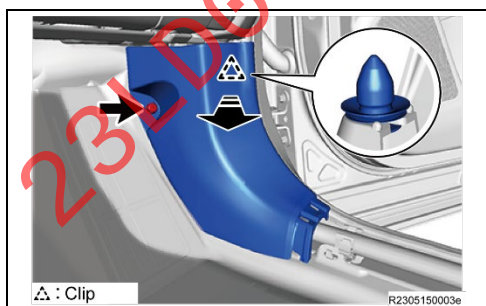
- Open the glove compartment door assembly.
- Apply protective tape to the area shown in the illustration.
- Using a trim tool, disengage the 5 clips and 5 guides in the order shown in the illustration to remove the lower center instrument panel finish panel.



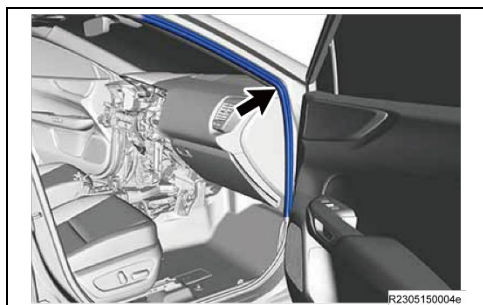
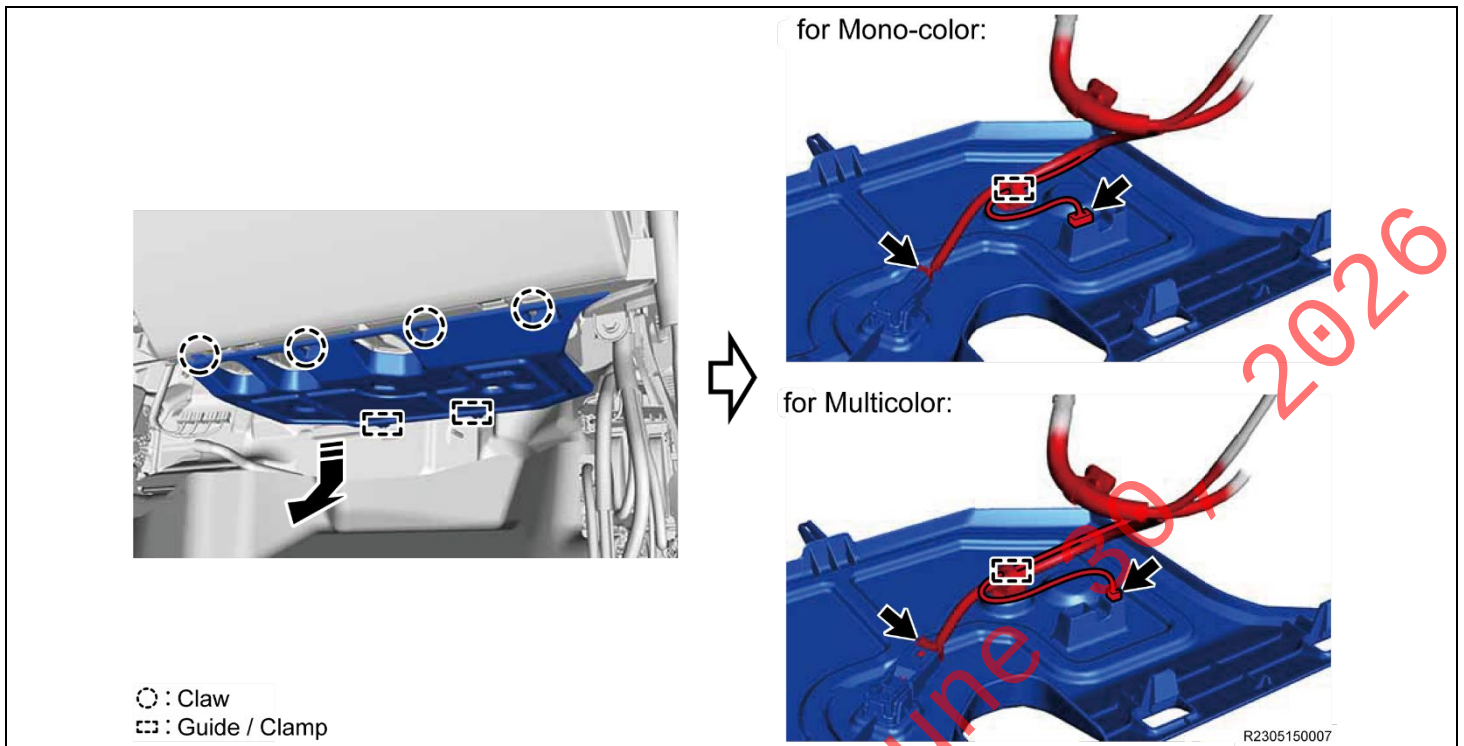
3. REMOVE DOOR SCUFF PLATE ASSEMBLY RH



4. REMOVE THE COWL SIDE TRIM BOARD RH



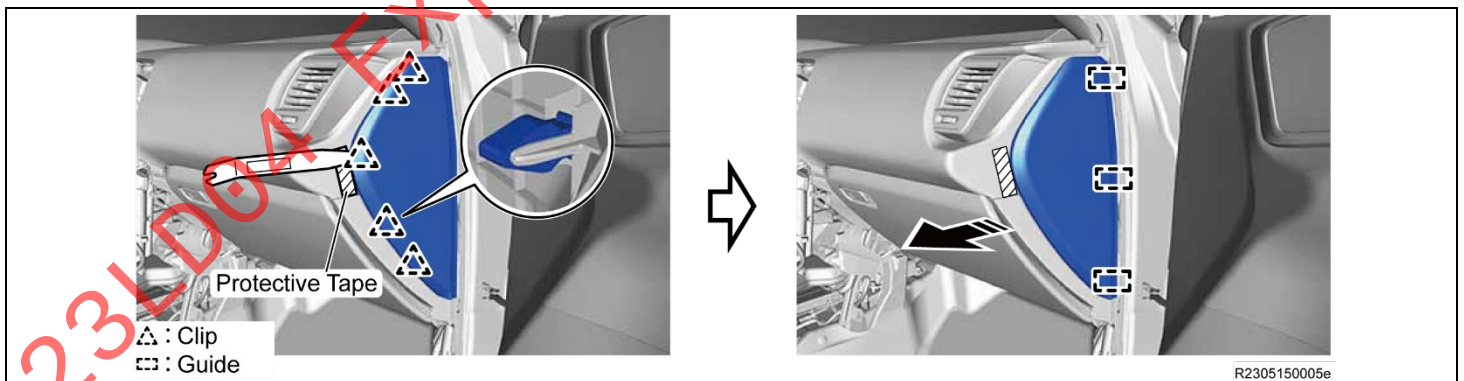
5. REMOVE THE NO. 2 INSTRUMENT PANEL UNDER COVER SUB-ASSEMBLY



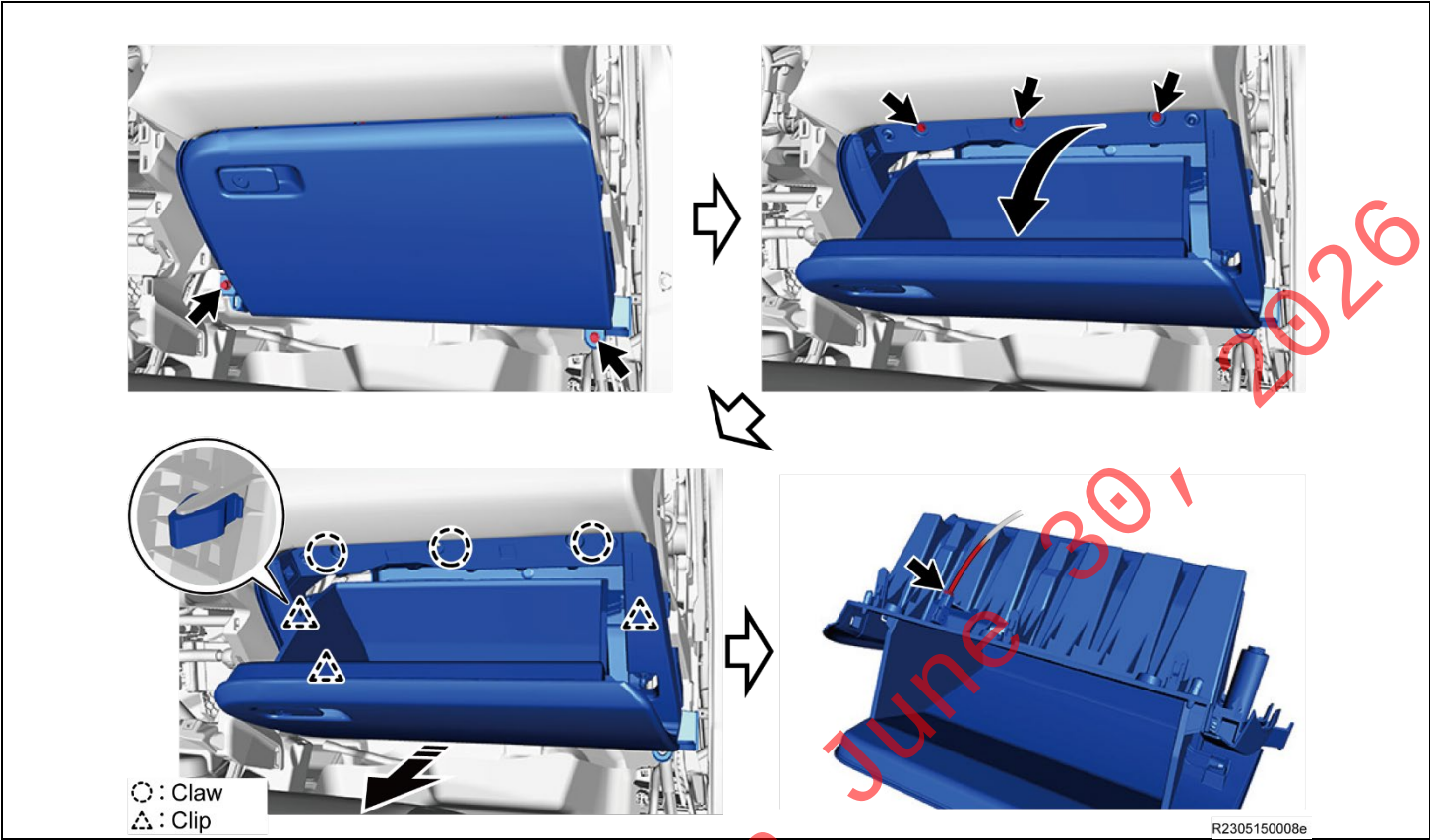
6. DISCONNECT THE FRONT DOOR OPENING TRIM WEATHERSTRIP (RH)

7. REMOVE NO. 2 INSTRUMENT SIDE PANEL

- Apply protective tape to the area shown in the illustration.
- Using a trim tool, disengage the 5 clips as shown in the illustration.
- Disengage the 3 guides to remove the No. 2 instrument side panel as shown in the illustration.



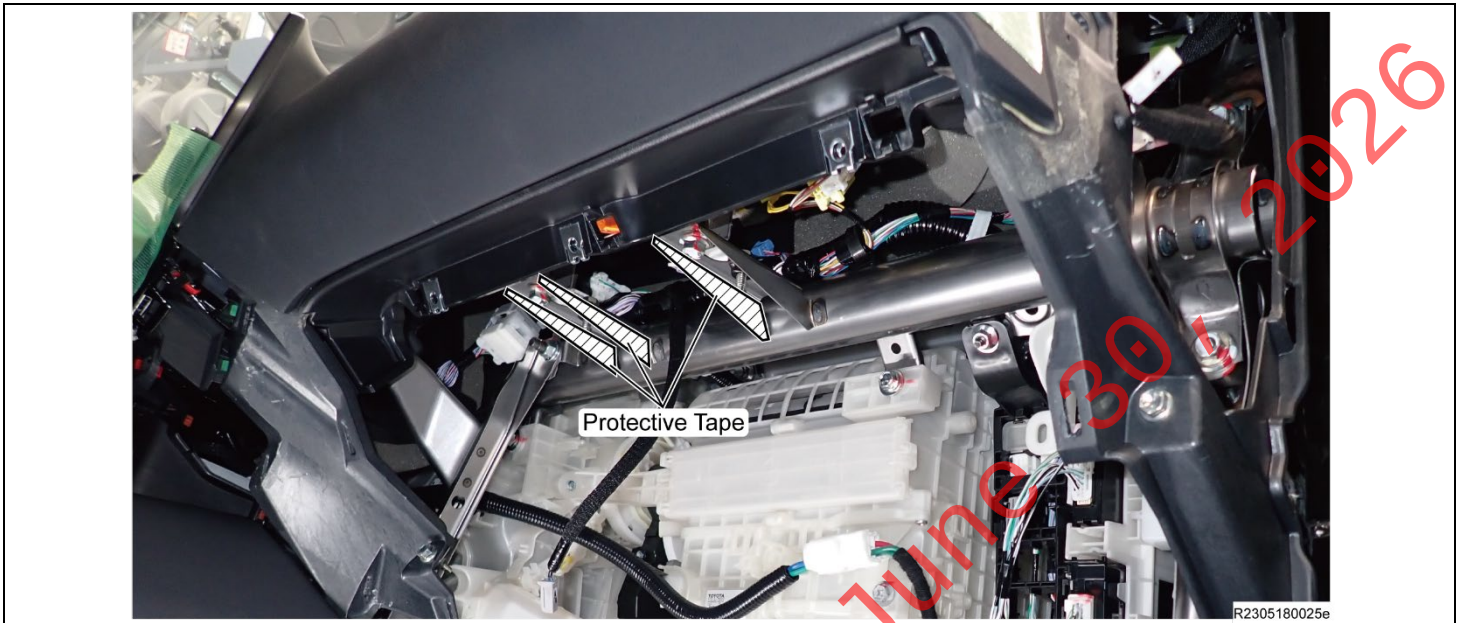
8. REMOVE THE LOWER INSTRUMENT PANEL SUB-ASSEMBLY



VII. CHANGE THE TERMINAL LOCATION OF THE ANTENNA CORD SUB-ASSEMBLY CONNECTOR

1. PROTECT INSTRUMENT PANEL REINFORCEMENT ASSEMBLY

- a) **The brackets on the instrument panel reinforcement assembly may be sharp.** Protect the locations shown of the instrument panel reinforcement assembly using protective tape to prevent injury.



2. DISCONNECT THE GROUND WIRE

- a) Remove the bolt to disconnect the ground wire.

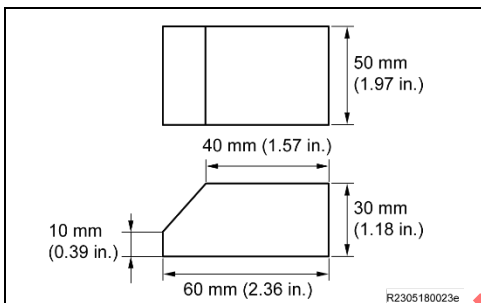
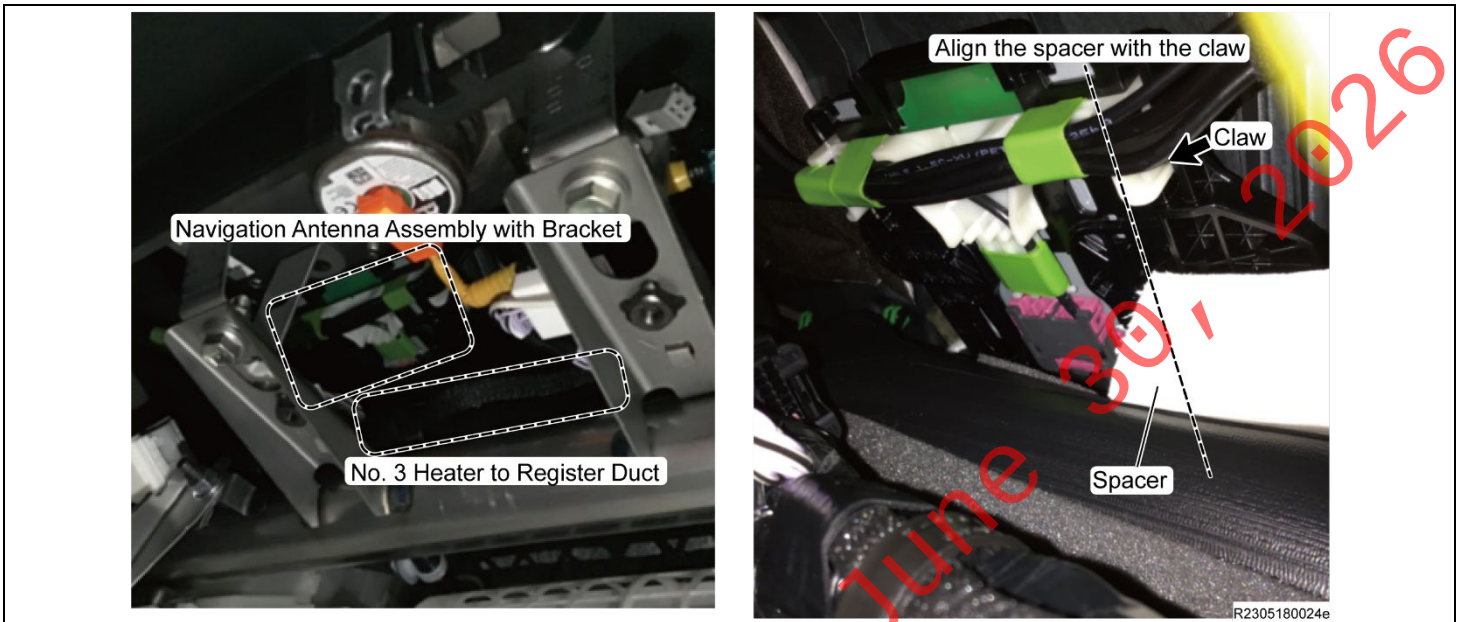


3. INSERT SPACER

- a) Build a spacer. Refer to [Section IX](#) for information on how to build the spacer using paper and tape.
- b) Insert the spacer between the navigation antenna assembly with bracket and the No. 3 heater to register duct.

HINT:

Align the spacer with the claw of the white clamp. Be sure to use a spacer that is firm enough to retain its shape to maintain the clearance required to perform the repair.



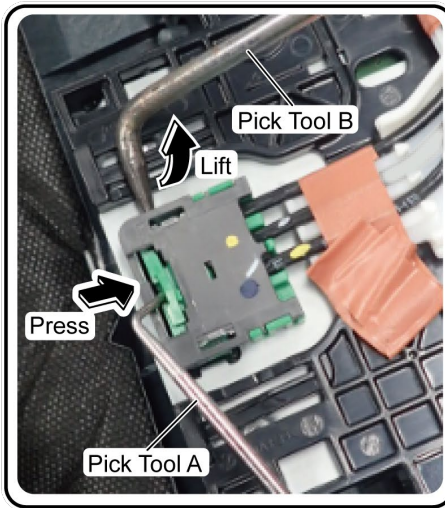
HINT:

The recommended shape of the spacer

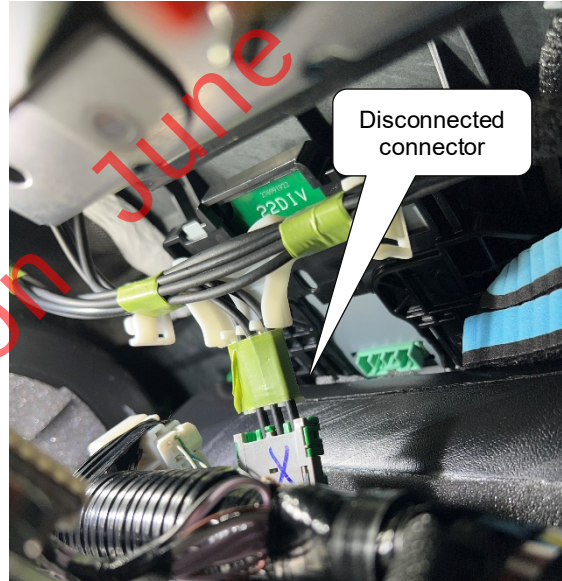
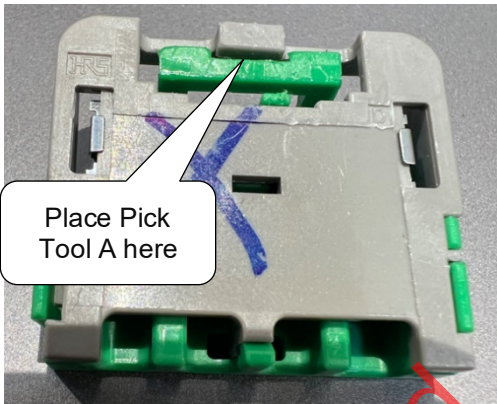
- Refer to APPENDIX on how to make the spacer. Note that the spacer height must not be over 40mm (1.57 in.). (If the height exceeds 40 mm it cannot be used because the duct will be dented.)

4. DISCONNECT ANTENNA CONNECTOR

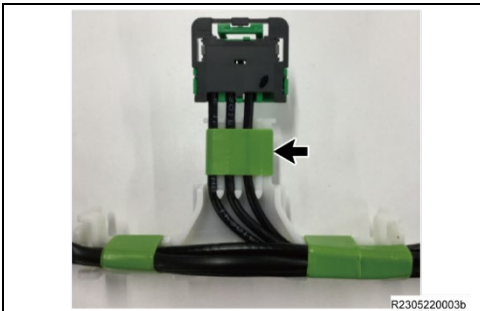
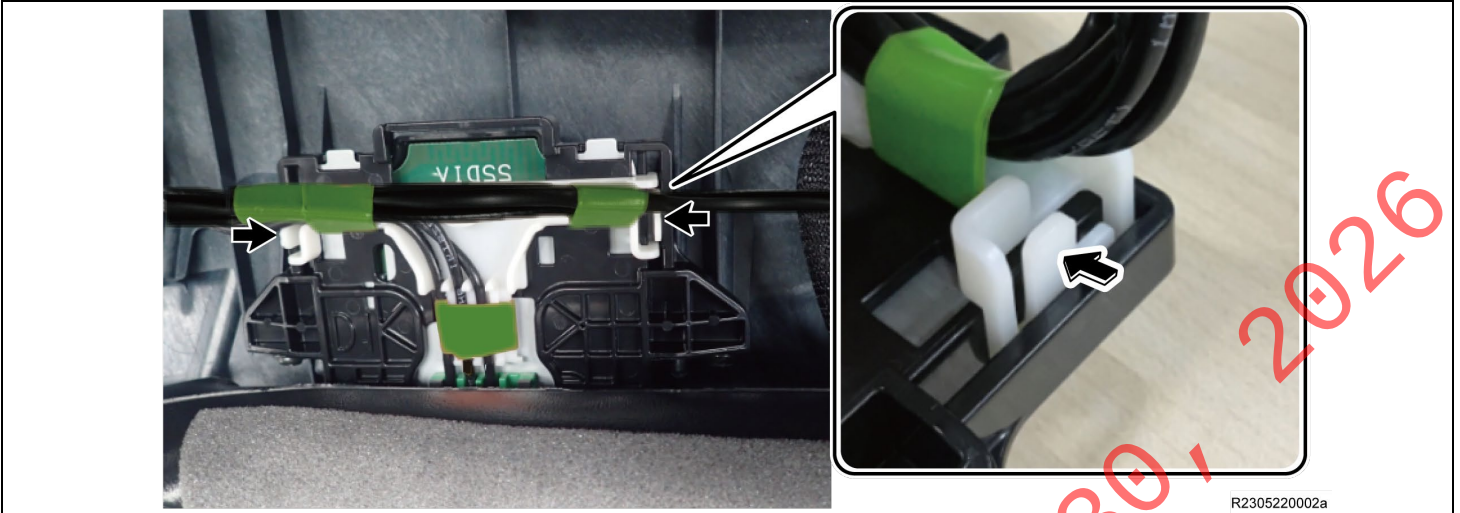
- a) While pressing the green part of the antenna connector as shown, using pick tool A to release the lock, use pick tool B to lift up the antenna connector and disconnect it.



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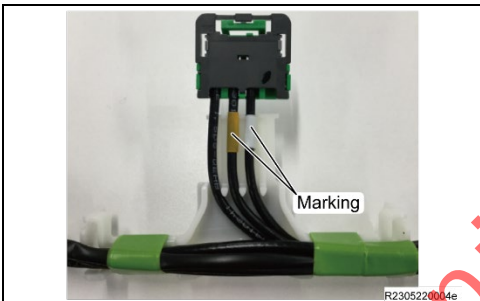
- b) Press the 2 claws.
- c) While pressing the 2 claws, lift up the clamp to disengage the claws and remove the clamp.



5. CHANGE THE TERMINAL LOCATION OF THE ANTENNA CORD SUB-ASSEMBLY CONNECTOR

- a) Remove the vinyl tape.

HINT:
The vinyl tape will be reused.



- b) Mark the 2 wires which are to be swapped with a marking pen or colored tape of different colors so that the original installation position can be identified.

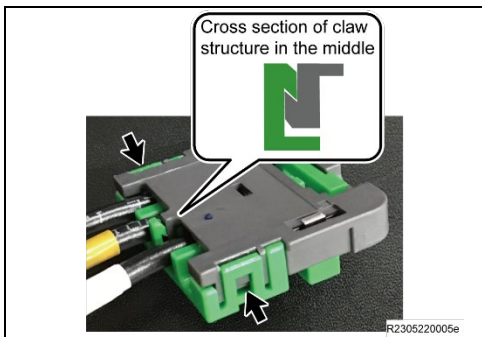
NOTICE:
Make sure to mark each wire with a different color so that the original position can be identified to avoid wrong installation since all the wires are the same color.



- c) After marking, take a photo of the current wiring state with a smartphone or the like.



Taking the photo is necessary to confirm terminal locations are correctly changed after swapping the terminal location, and so that the original position can be identified in case terminals are accidentally removed from the connector housing.



d) Disengage the 3 claws to remove the connector cover.

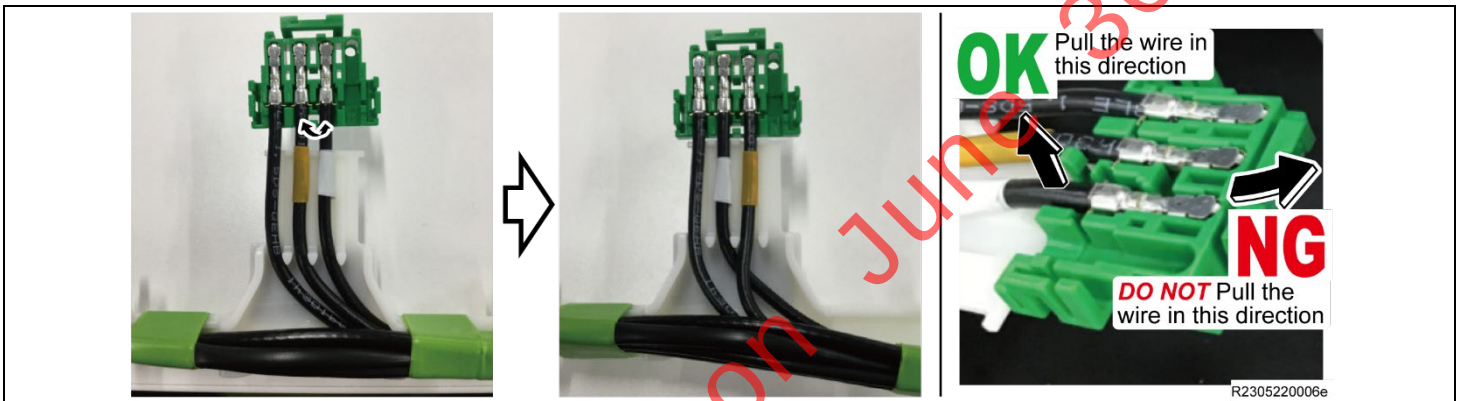
NOTICE:

- Pay attention to the claw structure in the middle and be careful not to damage the claws.
- If you break the claws, replace the antenna connector with a **NEW** one.
- **DO NOT** reuse the broken connector.
- If replacing the antenna connector with a new one, provide your VIN and RO by email to QC@lexus.com to special order parts if needed.

e) Disconnect the terminals of the 2 marked wires and swap the installation position and install them.

NOTICE:

- Confirm the wire is moved to the correct position.
- **DO NOT** bend the terminal when moving it.
- Make sure the terminal is firmly inserted into the housing.



NOTICE:

After swapping the terminals, make sure the 2 wires are not crossing each other on top of the guide. If crossing there, change the wiring so that the wires cross each other under the guide.

f) Confirm the terminal ribs are fitted in the housing groove.

NOTICE:

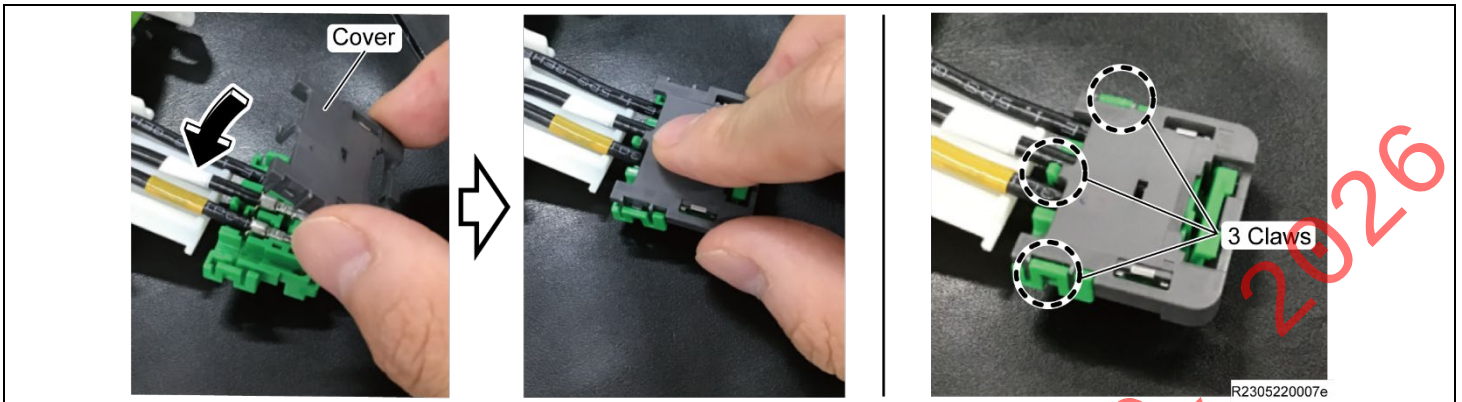
If the connector cover attached to the terminal ribs are not fitted in the housing grooves, the terminal will be broken.



g) Engage the 3 claws of the housing and cover to install the cover.

NOTICE:

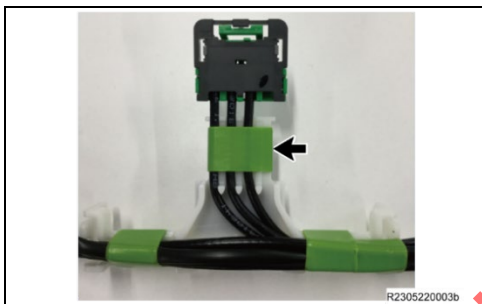
Confirm that the 3 claws are firmly engaged.



h) Take a photo of the wiring state after changing the terminal locations and compare the photo with the one taken before the location change to confirm the terminals are correctly swapped.



Location change of terminals can be checked only visually. Make sure to confirm the terminals are correctly swapped.



i) Put the stripped tape back.

HINT:

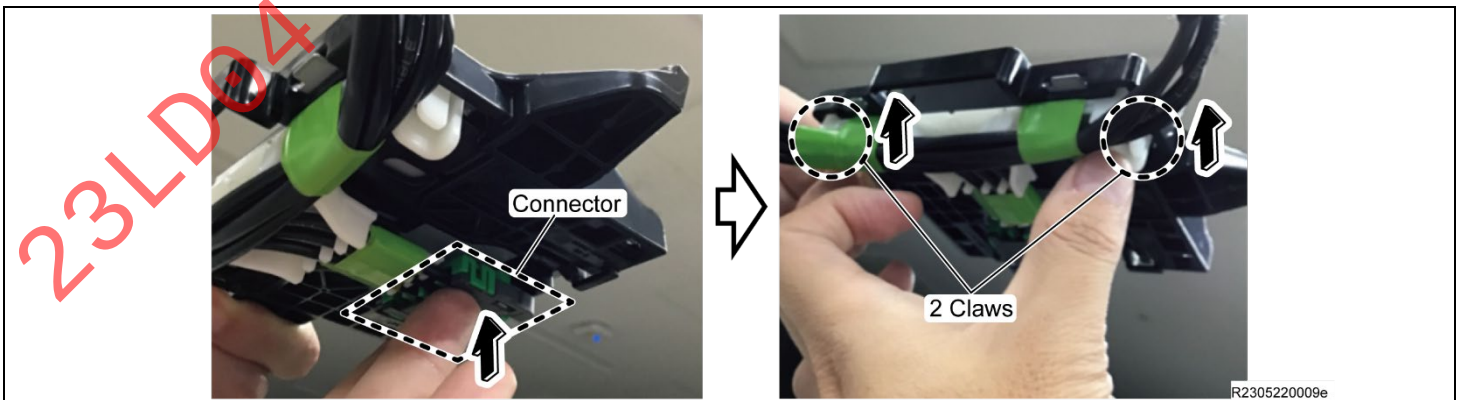
If the stripped tape cannot be reused, put 3 wraps of 19mm (0.75 in.) width x 150mm (5.91 in.) length electrical tape. (Any tape color)

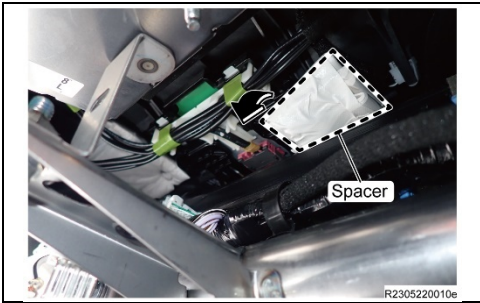
6. CONNECT THE ANTENNA CONNECTOR TO THE ANTENNA

a) Connect the antenna connector, then engage the 2 claws.

NOTICE:

Make sure to connect the antenna connector first, and then engage the claws. If the claws are engaged first, the antenna connector may not be able to connect.





7. REMOVE THE SPACER

- a) Remove the spacer. Keep the spacer on hand in case you need to repair another vehicle.

NOTICE:

Make sure the spacer is removed.

8. CONNECT GROUND WIRE

- a) Install the bolt to connect the ground wire.



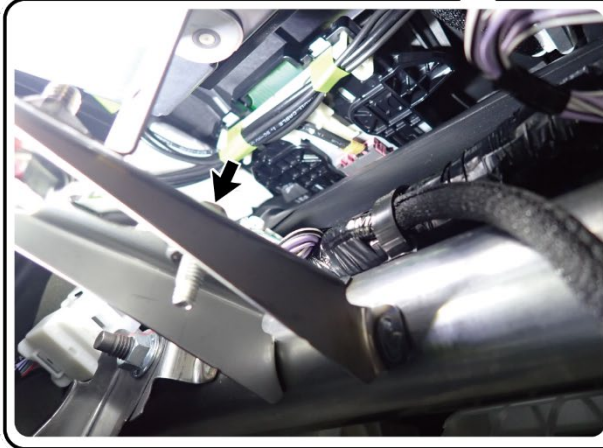
Torque:

for Type A: 8.5 N*m (87 kgf*cm, 75 in.*lbf)

for Type B: 10 N*m (102 kgf*cm, 7 ft.*lbf)

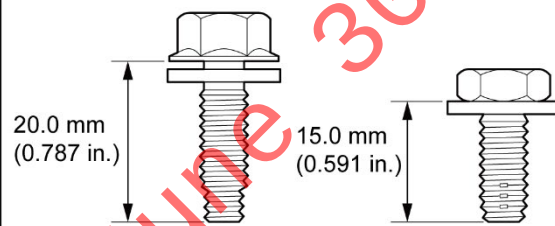
NOTICE:

There are two types of bolts, and the tightening torque depends on the type of bolt used as shown in the illustration. Therefore, confirm the tightening torque before installing the bolt.



for Type A:

for Type B:



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9. REMOVE PROTECTIVE TAPE



10. INSPECT THE GPS SIGNAL

NOTICE:

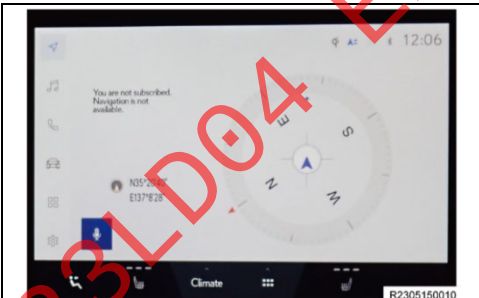
Make sure to perform this inspection at a location with a strong GPS signal such as outside.

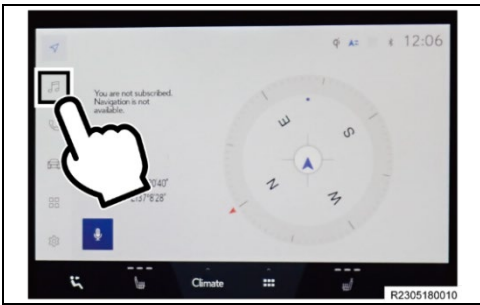
a) Press the Power switch. (Hard switch)

b) Default Screen

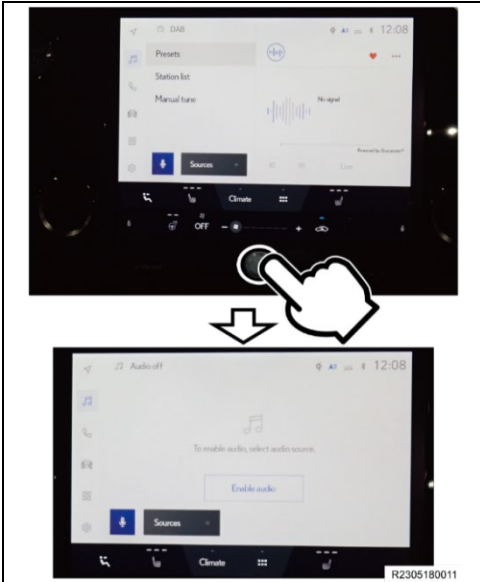
HINT:

Contents on the screen differ by location.

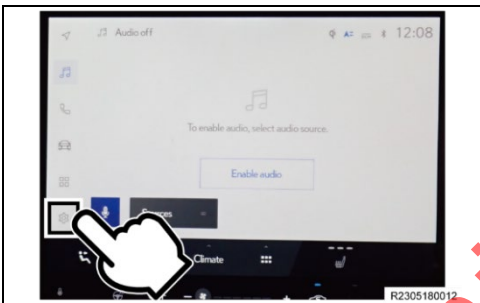




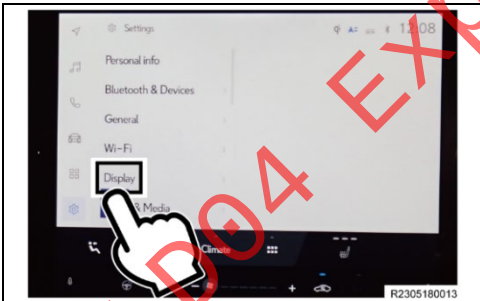
c) Press the "Audio" button (soft switch).



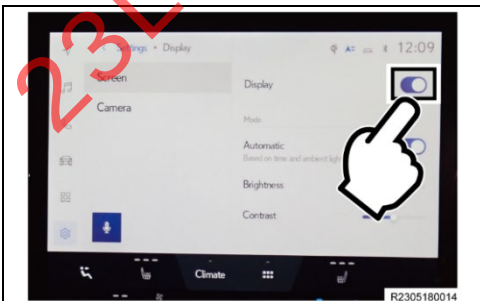
d) Press the "Audio" button (hard switch)-> Audio mode becomes off mode.



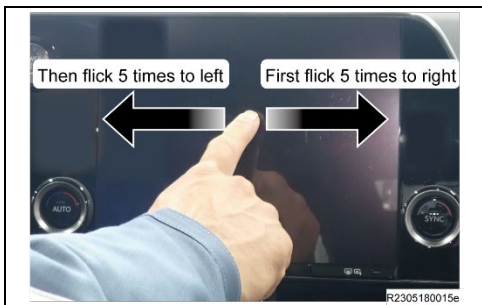
e) Press the "Setting" button. (Soft switch)



f) Press the "Display" button. (Soft switch)



g) Toggle the Display button. -> Display now shows as "off".



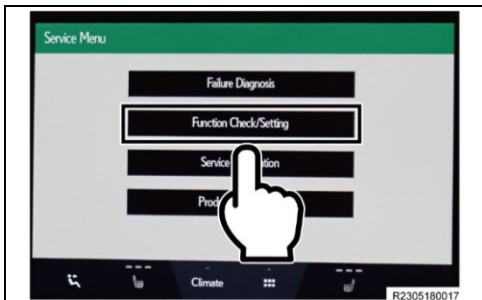
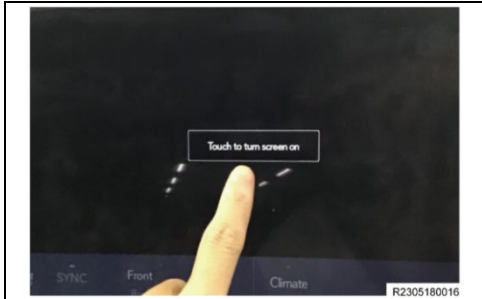
h) Flick Display (5 times to right-> 5 times to left)

NOTICE:

- Please operate the right flick first.
- Please flick from the display center.
- Keep flicking even though the screen shown below will appear after flicking for the first time.
- If the screen does **NOT** turn to the diagnostic screen, please try from step (c) to (h). again.

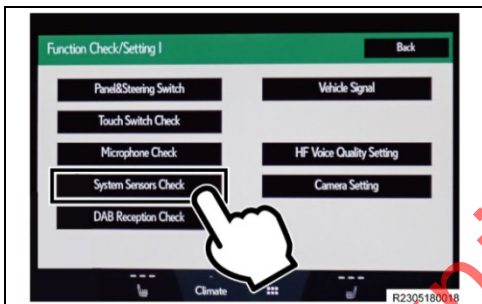
HINT:

This message will be shown after flicking for the first time.



i) Diagnostic Screen appears.

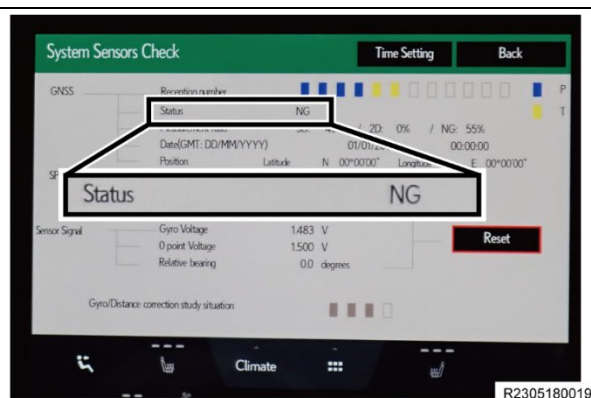
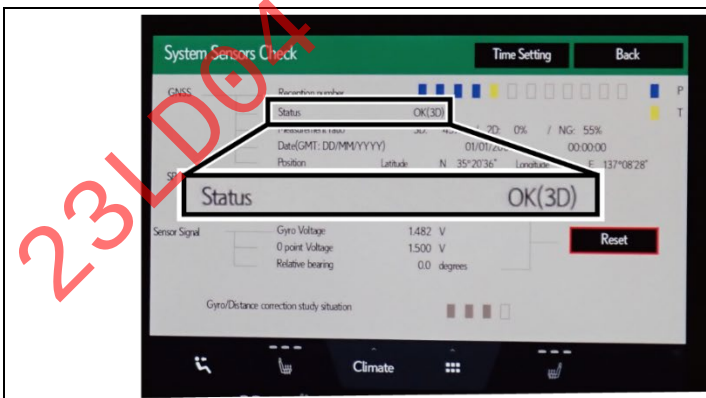
j) Press "Function Check/Setting"

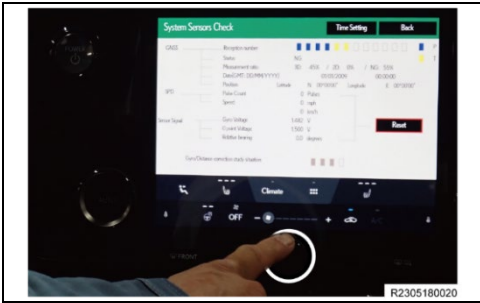


k) Press "System Sensors Check".

l) Please inspect at a location with a strong GPS signal such as outside.

m) When you inspect at a location with a weak GPS signal such as inside or a place with a cover or a shield, GPS status becomes "NG" even if you repair it correctly.



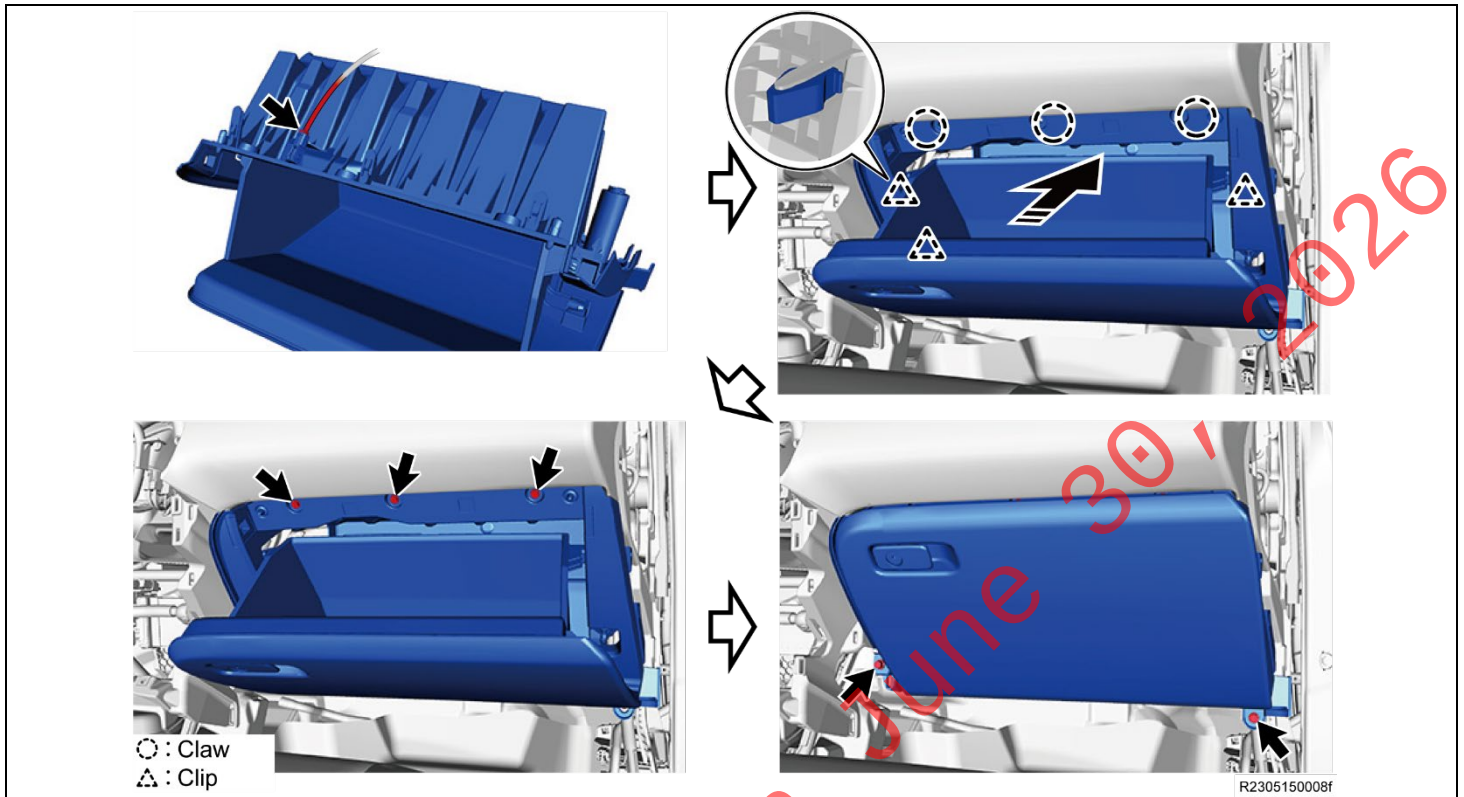


n) Press & hold the Audio button (hard switch).

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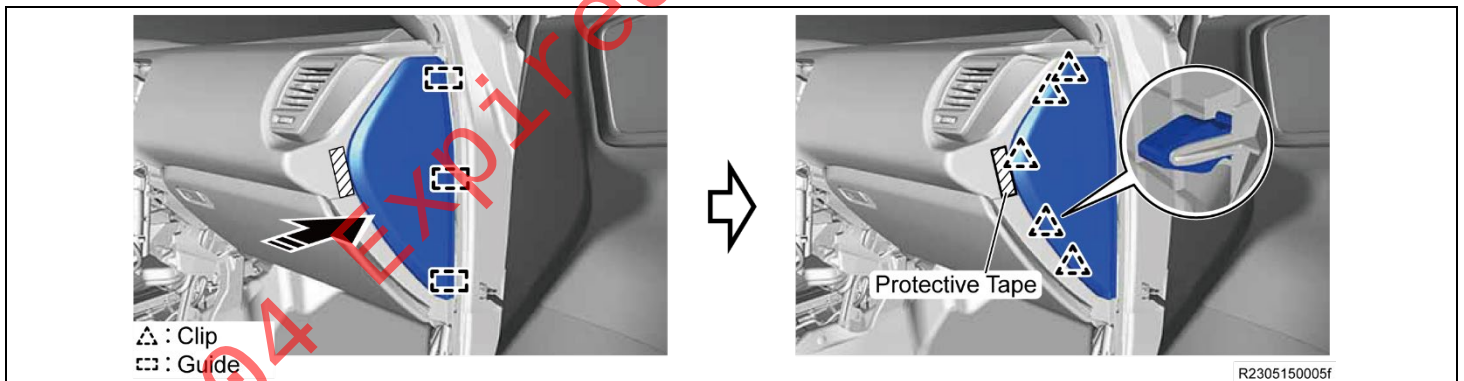
VIII. RESTORE VEHICLE

1. INSTALL LOWER INSTRUMENT PANEL SUB-ASSEMBLY

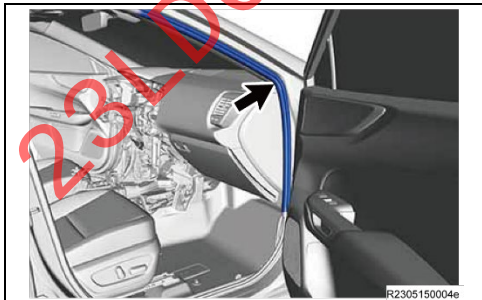


2. INSTALL NO. 2 INSTRUMENT SIDE PANEL

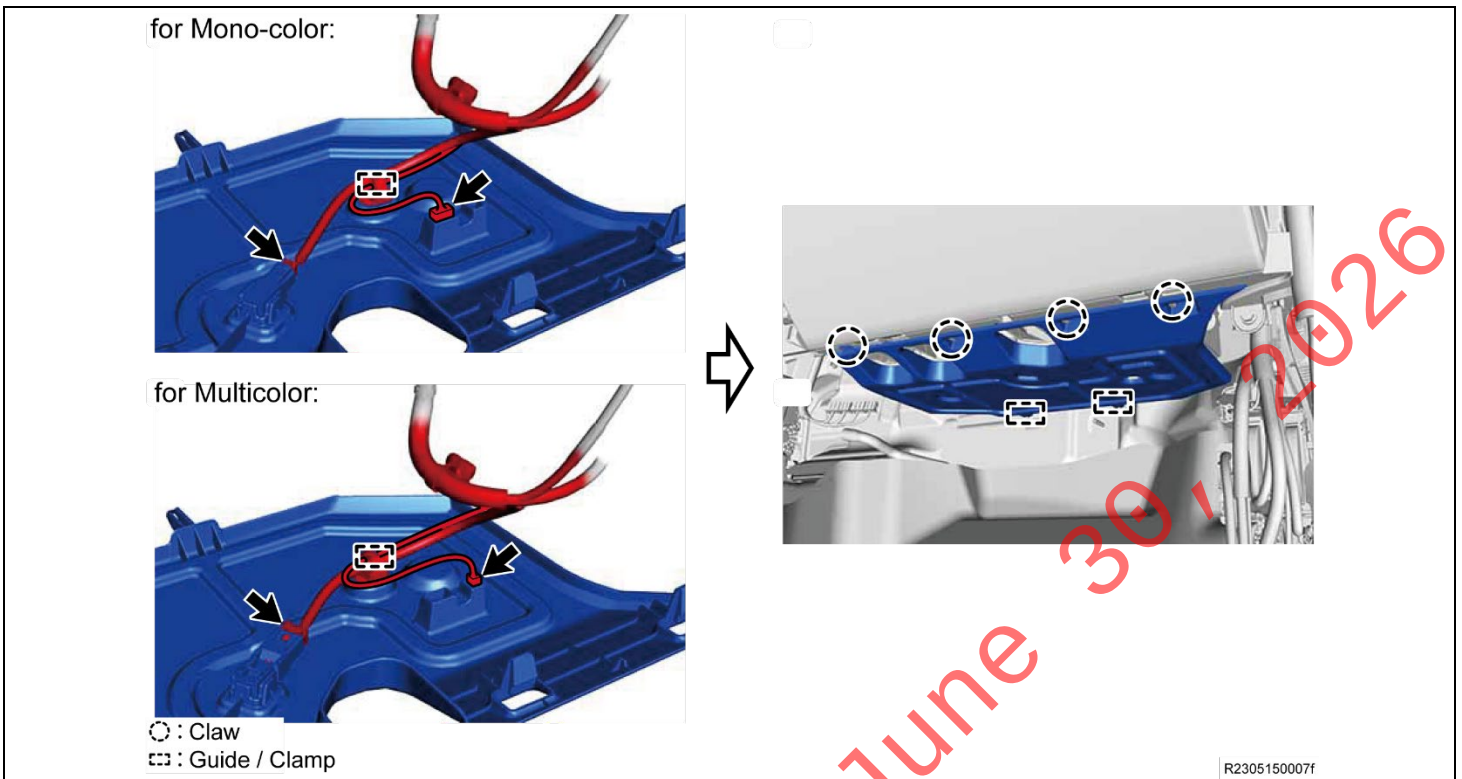
- Engage the 3 guides to install the No. 2 instrument side panel as shown in the illustration.
- Engage the 5 clips as shown in the illustration.
- Remove protective tape.



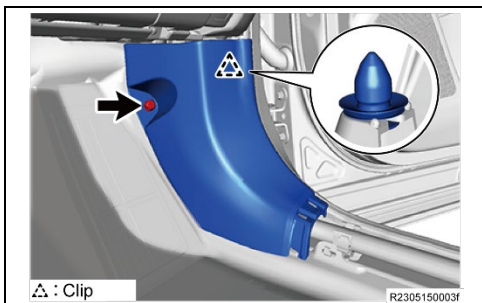
3. INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP RH



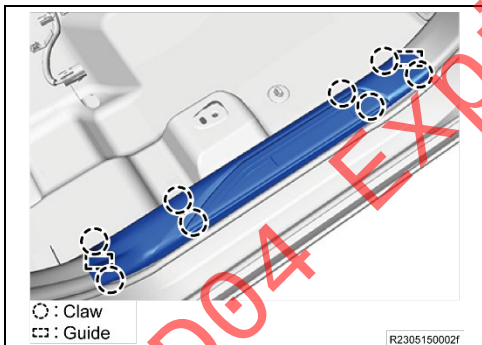
4. INSTALL NO. 2 INSTRUMENT PANEL UNDER COVER SUB-ASSEMBLY



5. INSTALL COWL SIDE TRIM BOARD RH

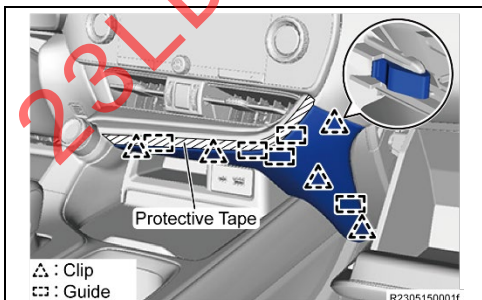


6. INSTALL DOOR SCUFF PLATE ASSEMBLY RH



7. INSTALL LOWER CENTER INSTRUMENT PANEL FINISH PANEL

- Open the glove compartment door assembly.
- Engage the 5 clips and 5 guides to install the lower center instrument panel finish panel.
- Remove the protective tape.



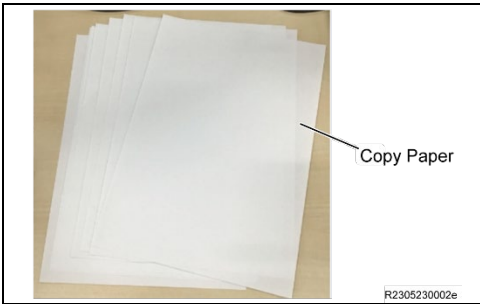
8. CHECK AND CLEAR DTC's

◀ VERIFY REPAIR QUALITY ▶

- Confirm GPS wires have been inspected correctly and are in the correct position.
 - Confirm ground wire is reattached.
 - After inspection/repair confirm the spacer has been removed from the vehicle.
 - Confirm GPS signal is present.
- If you have any questions regarding this update, please contact your area representative.

IX. APPENDIX

A. HOW TO MAKE A SPACER

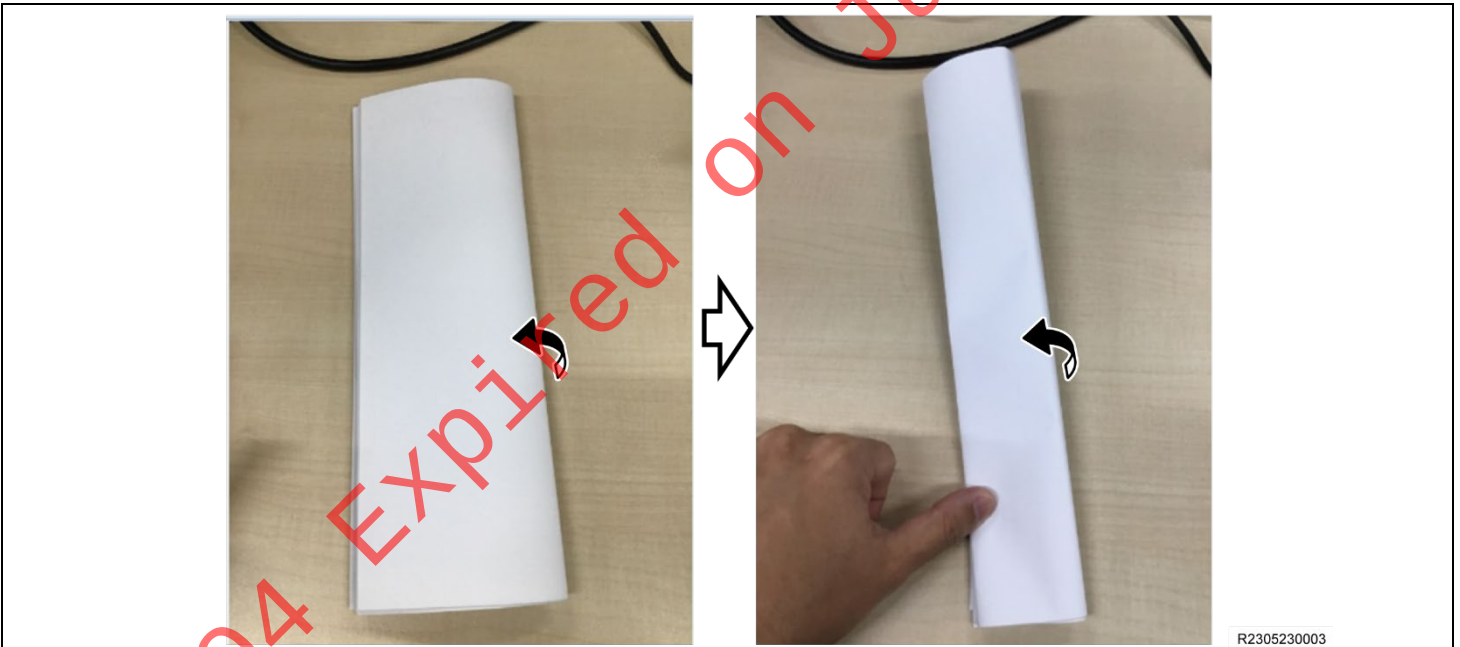


a) Prepare about 10 sheets of copy paper.

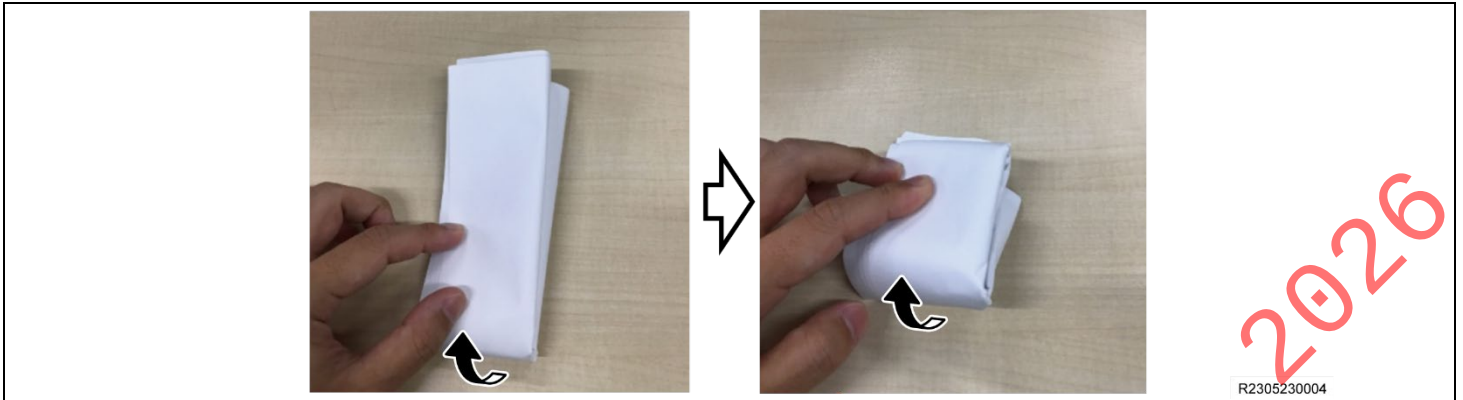
HINT:

The size of copy paper is about 210mm (width) x 297mm (height) (8.27"x11.7").

- b) Fold the stack of paper in half along the short side.
c) Fold the stack of paper in half along the short side again.



- d) Fold the stack of paper in half along the long side.
- e) Fold the stack of paper in half along the long side, again.



- f) Fix the stack of paper with tape to keep it from opening.

- g) Finished product.

HINT:

Be sure to save the spacer in order to reduce time and waste on future repairs.



23LD04

B. CAMPAIGN DESIGNATION DECODER

