

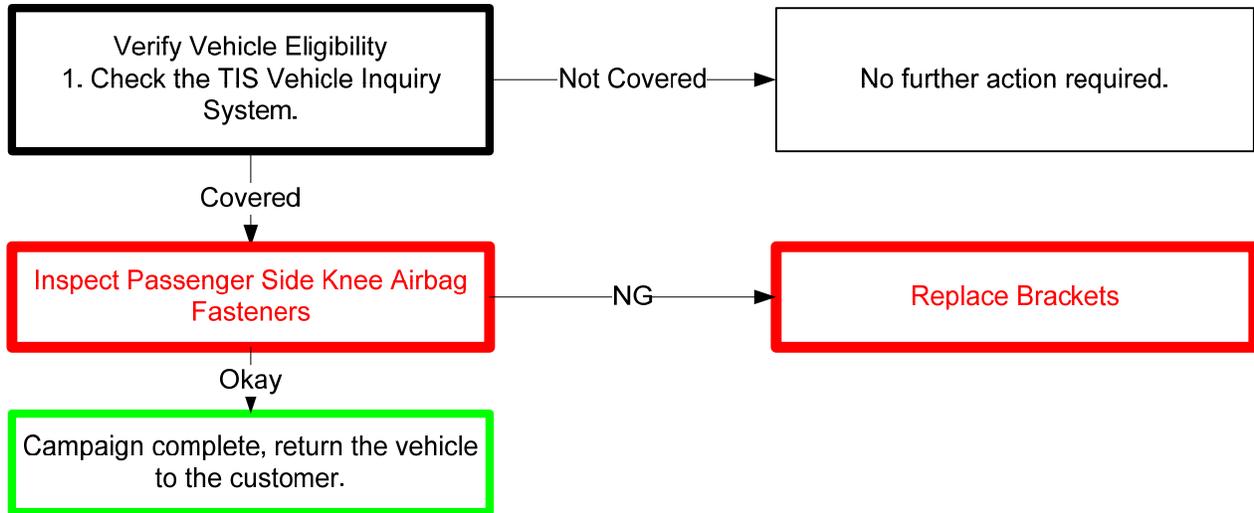
TECHNICAL INSTRUCTIONS
FOR
SAFETY RECALL G05
PASSENGER KNEE AIRBAG BOLT FASTENER INSPECTION
CERTAIN 2016 MODEL YEAR AVALON

The repair quality of covered vehicles is extremely important to Toyota. All dealership technicians performing this repair 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 repair are required to currently hold at least one of the following certification levels:

- Toyota Expert (Electrical)
- Master
- Master Diagnostic Technicians

It is the dealership's responsibility to select technicians with the above certification level or greater to perform this repair. Carefully review your resources, the technician 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



II. IDENTIFICATION OF AFFECTED VEHICLES

- Check the TIS Vehicle Inquiry System to confirm the VIN is involved in this Safety Recall, and that the campaign has not already been completed prior to dealer shipment or by another dealer.
- TMS warranty will not reimburse dealers for repairs conducted on vehicles that are not affected or were completed by another dealer.

III. PREPARATION

A. PARTS

The following parts are only required if the inspection identifies that the incorrect bolts were installed. It is anticipated that very few vehicles will require component replacement.

Part Number	Part Description	Quantity
90119-A0105	Bolt w/Washer	3
55375-06210	Bracket, Instrument Panel Lower Mt No. 2	1
55307-07030	Brace Sub-Assembly, Instrument Panel No. 2	1

B. TOOLS & EQUIPMENT

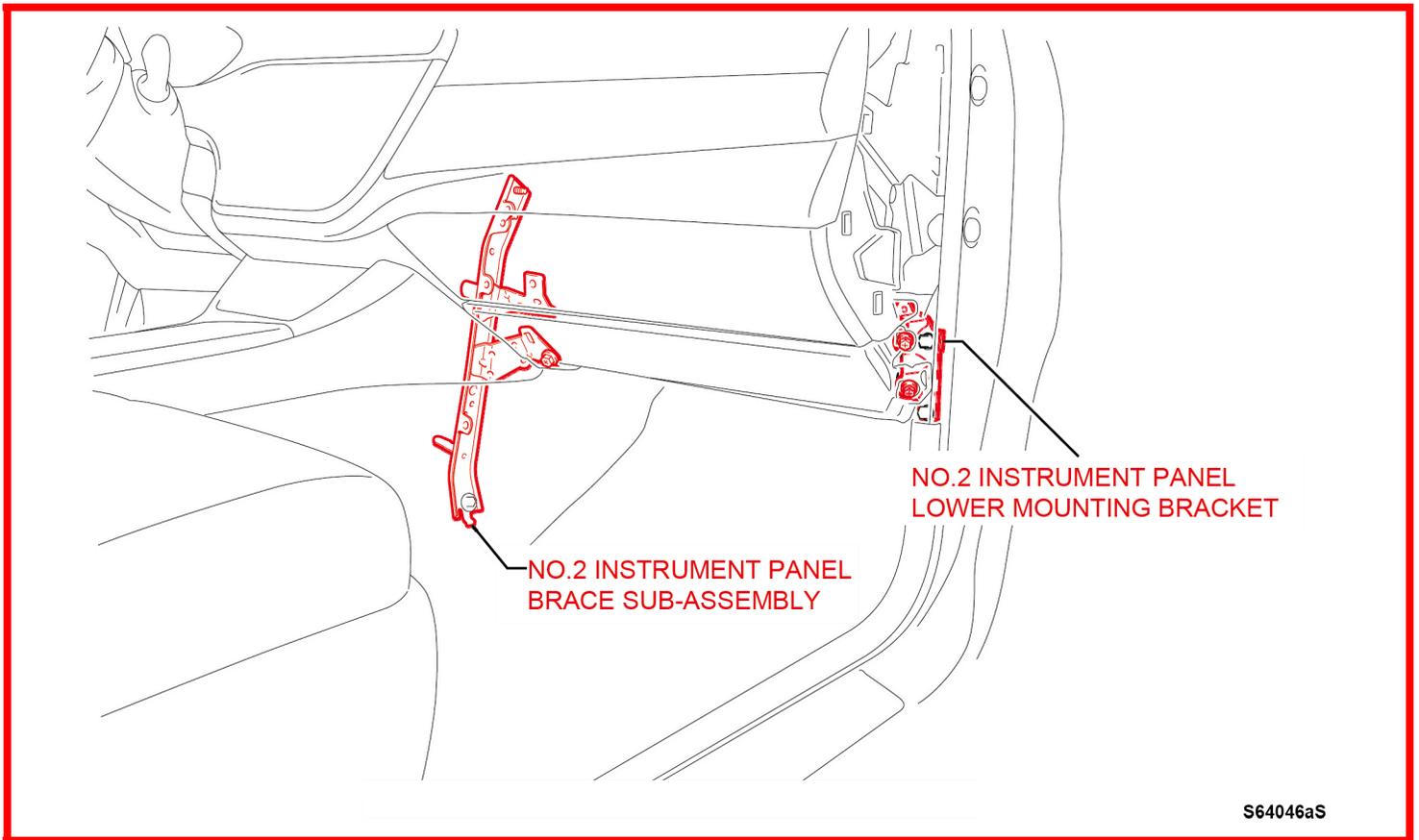
- Techstream
- Standard Hand Tools
- Torque Wrench
- Protective Gloves
- Molding Remover

C. MATERIALS

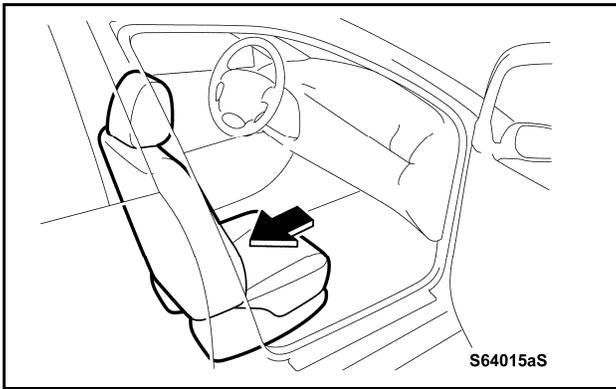
- Protective Tape

IV. BACKGROUND

During vehicle assembly, it is possible that incorrect fasteners were used to install the front passenger knee airbag assembly. This could affect its performance, increasing the risk of injury in a crash.



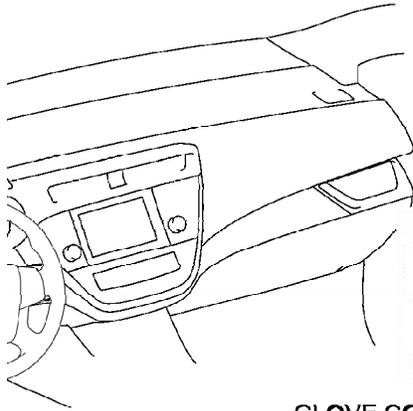
V. PASSENGER KNEE AIRBAG FASTENER INSPECTION



1. PLACE THE PASSENGER IN THE REAR MOST POSITION

- a) Record passenger seat position.
- b) Place the rear seat in the rear most position.
- c) Install seat protective cover.

2. REMOVE THE FOLLOWING COMPONENTS TO ACCESS THE KNEE AIRBAG BOLTS FOR INSPECTION.



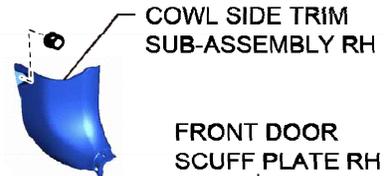
GLOVE COMPARTMENT PLATE



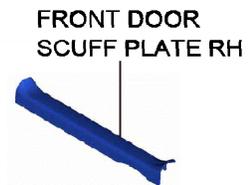
FRONT DOOR
OPENING TRIM
WEATHERSTRIP RH



INSTRUMENT SIDE
PANEL RH

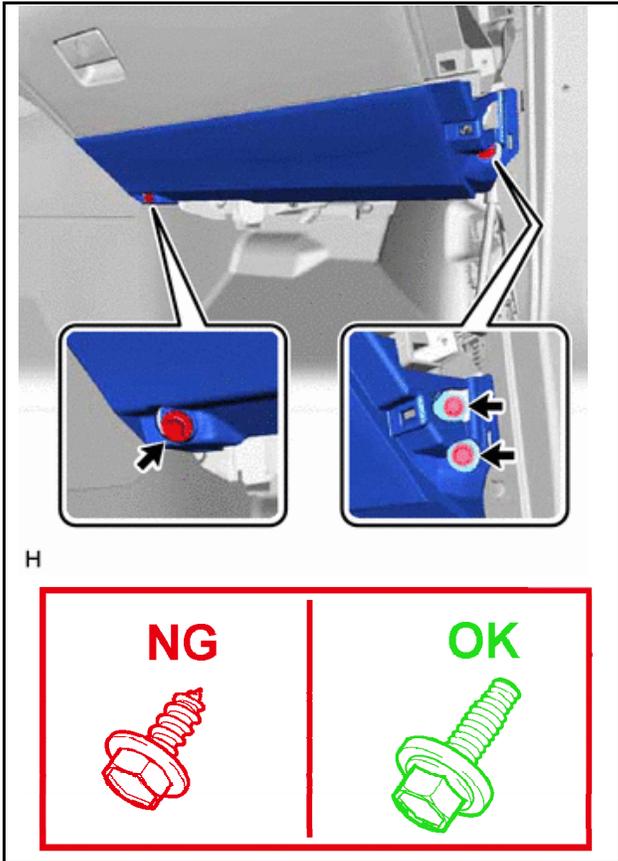


COWL SIDE TRIM
SUB-ASSEMBLY RH



FRONT DOOR
SCUFF PLATE RH

These components must be removed to ensure the correct bolts are inspected during the inspection process.



3. REMOVE THE KNEE AIRBAG BOLTS

- a) Remove each passenger knee airbag bolt one at a time and confirm the correct bolt is installed.

Note: If any bolt is judged NG both brackets must be replaced.

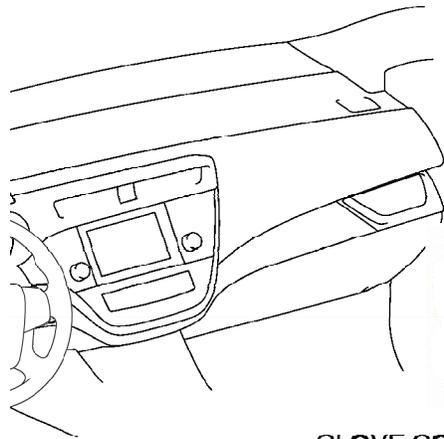
NG: Skip to Section VI: Bracket Replacement

OK: Continue to Step 4, Reinstall Interior Components

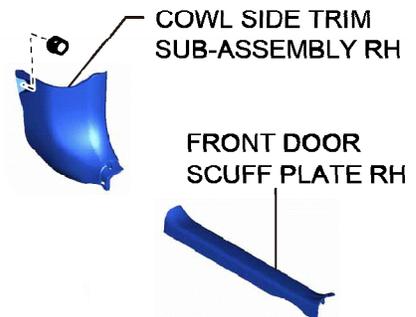
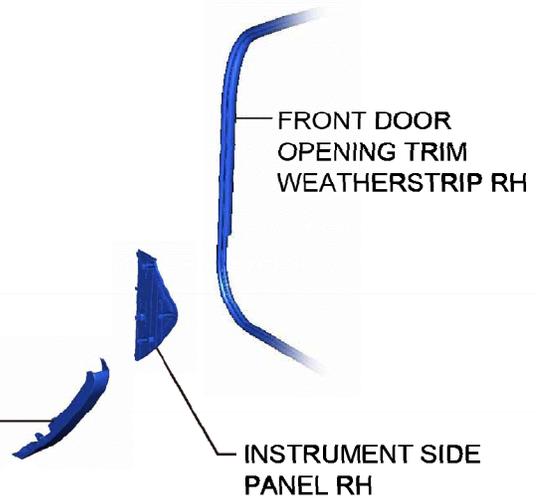
- b) Reinstall the bolt if OK and torque to spec.
Torque: 7 ft.lbs (10Nm, 102 kgf-cm)

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4. REINSTALL THE INTERIOR COMPONENTS



GLOVE COMPARTMENT PLATE

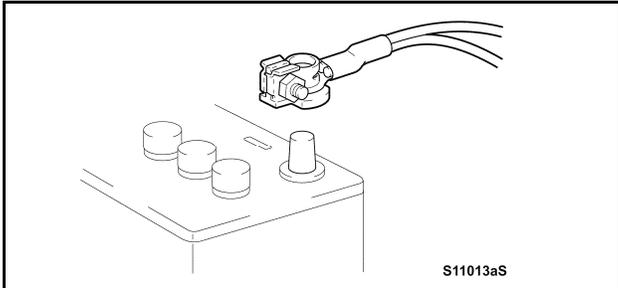


VI. BRACKET REPLACEMENT



- Bracket replacement is only required when the incorrect bolt has been installed. It is anticipated that very few vehicles will have the NG condition.
- Always wear protective gloves during disassembly, there are sharp edges on the brackets.

1. CHECK FOR DTCS TO CONFIRM ORIGINAL VEHICLE CONDITION
2. RECORD RADIO PRESET AND CLIMATE CONTROL SETTINGS



3. DISCONNECT CABLE FROM BATTERY NEGATIVE TERMINAL
4. APPLY PARKING BRAKE AND WHEEL CHOCKS

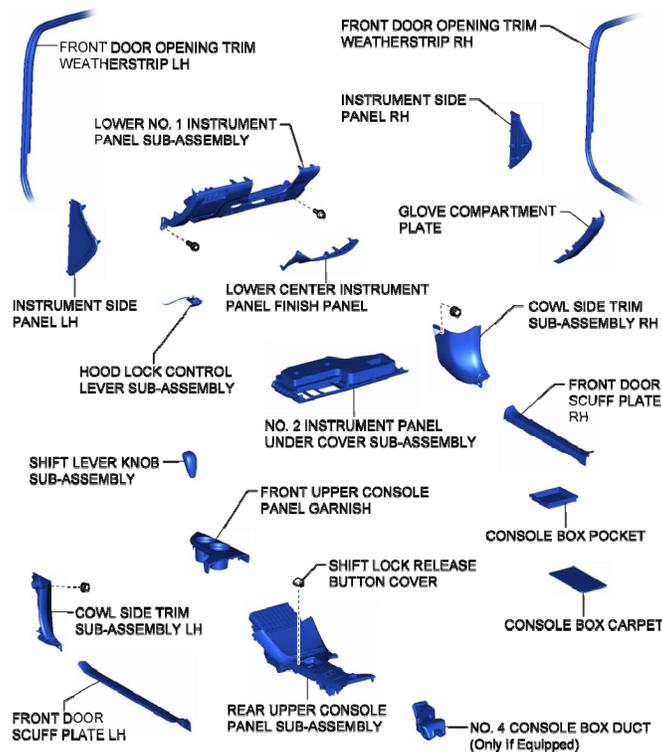


Apply the parking brake and wheel chocks to prevent the vehicle from accidentally rolling away when the shift lever is operated.

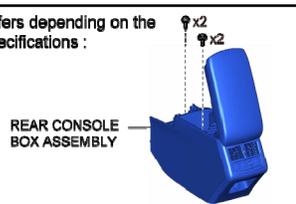
5. REMOVE REAR CONSOLE BOX ASSEMBLY, CENTER SECTION OF INSTRUMENT PANEL AND ADDITIONAL COMPONENTS

Note: If additional detail is required refer to TIS

[Refer to TIS for instructions on INSTRUMENT PANEL SAFETY PAD / REMOVAL](#)

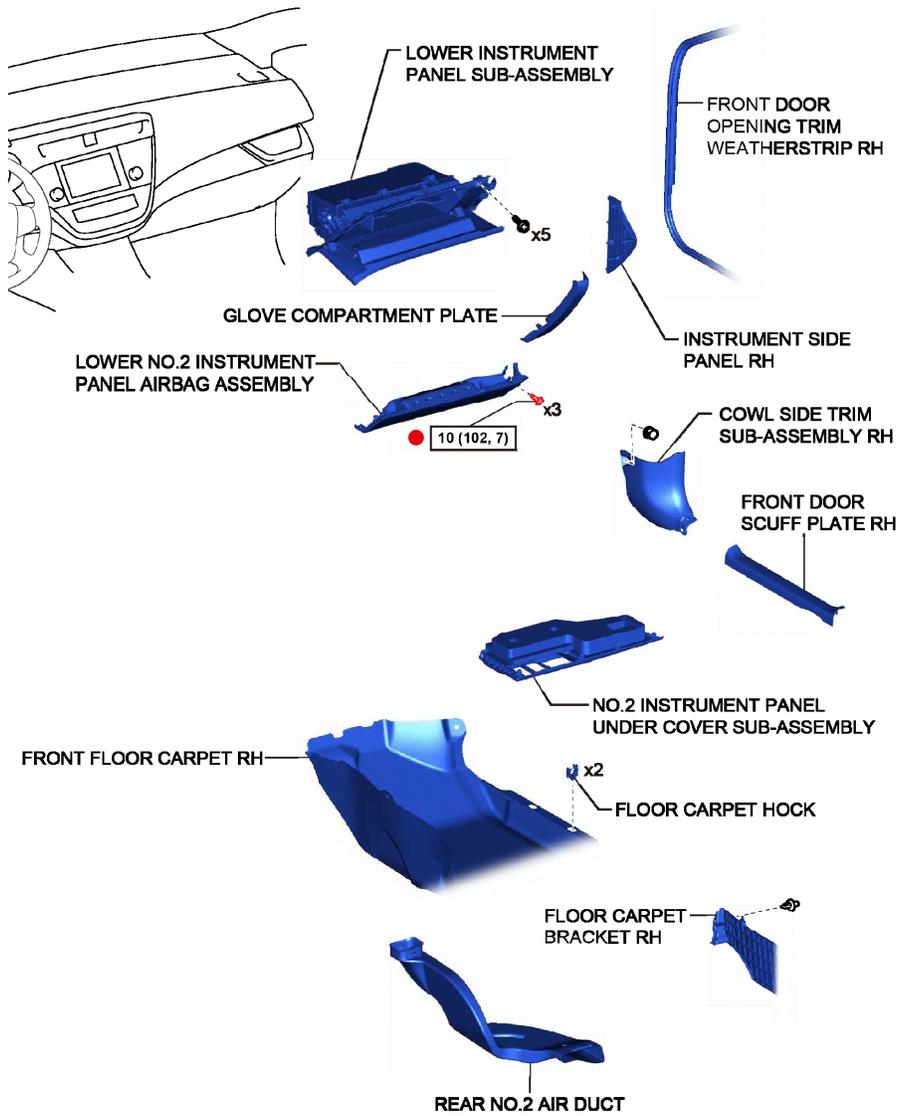


Design differs depending on the vehicle specifications :

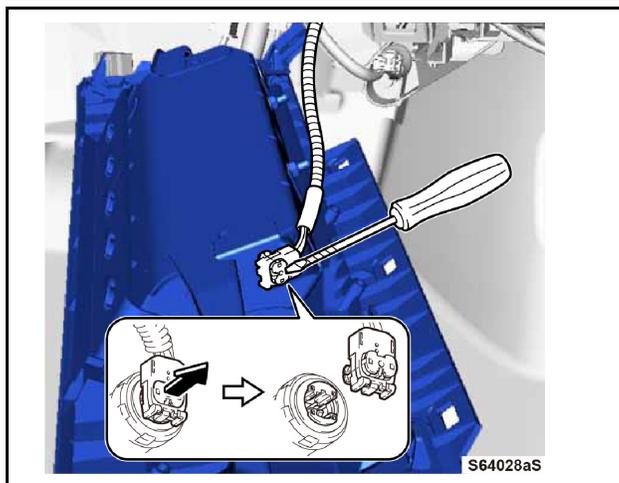


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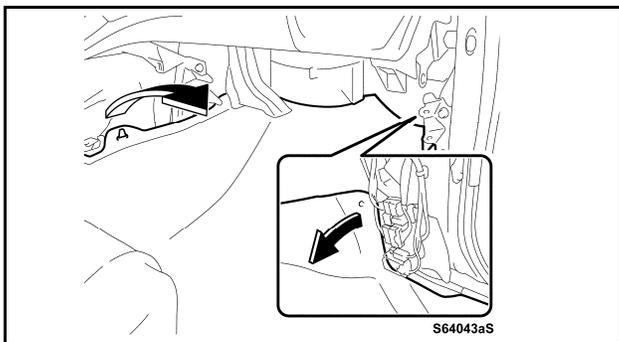
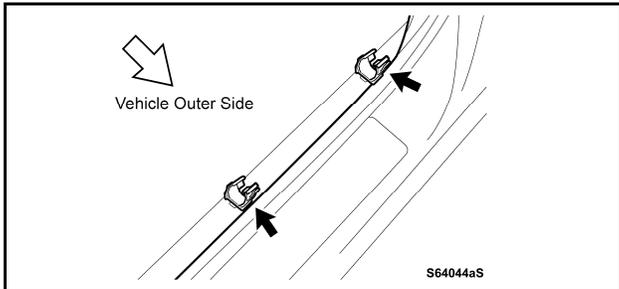
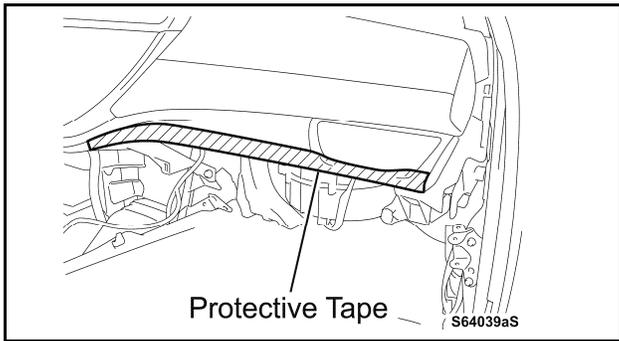
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- a) Using a screwdriver with its tip wrapped in protective tape, release the airbag connector lock and disconnect the connector.

6. REMOVE LOWER INSTRUMENT PANEL SUB-ASSEMBLY

7. REMOVE FRONT CONSOLE BOX



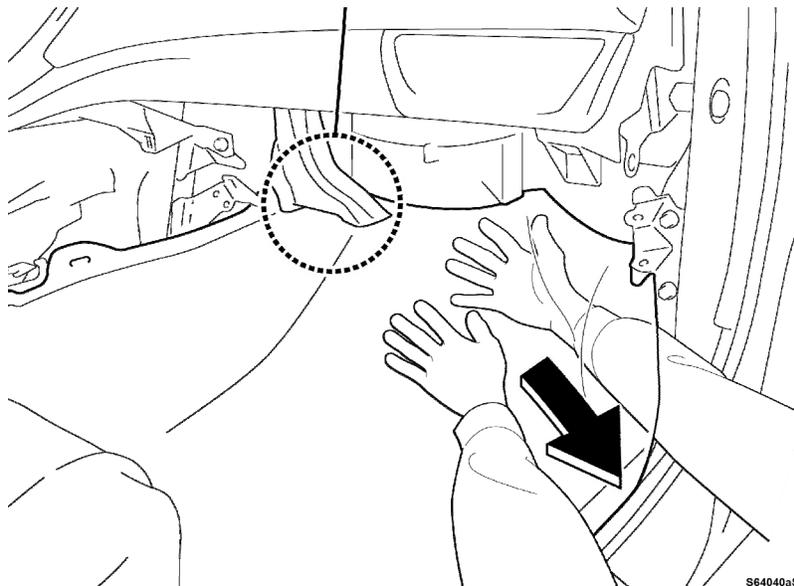
8. SEPARATE FRONT FLOOR CARPET RH

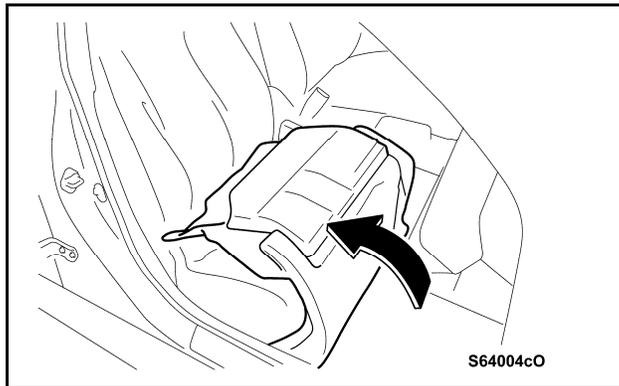
- a) Apply protective tape to the area indicated in the illustration.
- b) Remove the 2 floor carpet hooks by disengaging the 2 claws in each hook.
- c) Disengage the floor carpet RH from the hook.
- d) Pull the floor carpet RH in the direction shown in the illustration and partially detach it from the vehicle.

- e) Place your hand beneath the floor carpet RH, and then pull the carpet up and toward the door opening while preventing it from coming into contact with the rear No.3 air duct sub-assembly.

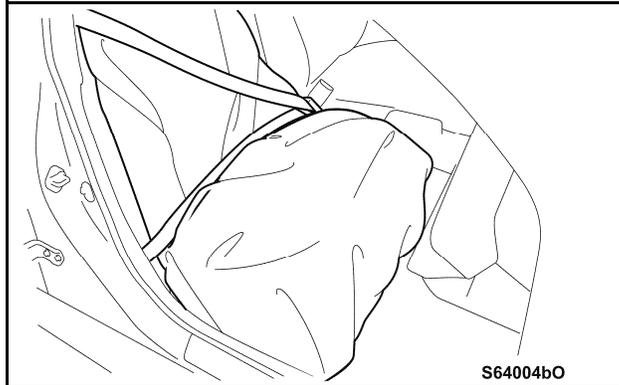


- **DO NOT** allow the floor carpet to come into contact with the air duct.
- **DO NOT** cause any foamed polypropylene material to peel away from the back surface of the carpet.





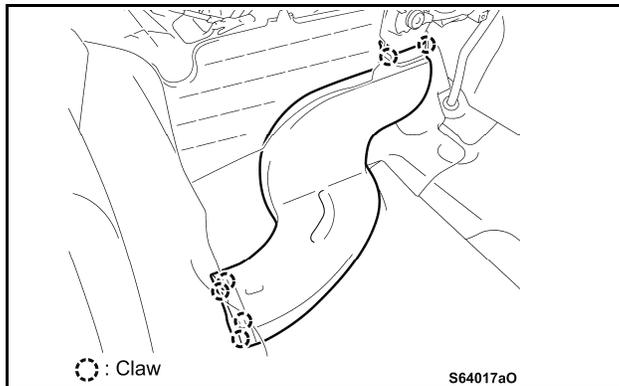
- f) Temporarily place the detached portion of the floor carpet RH on the passenger seat and cover with a seat cover.



- g) Cover the seat with another seat cover, and then fasten the carpet and seat cover with the seat belt to prevent them from interfering with subsequent procedures.

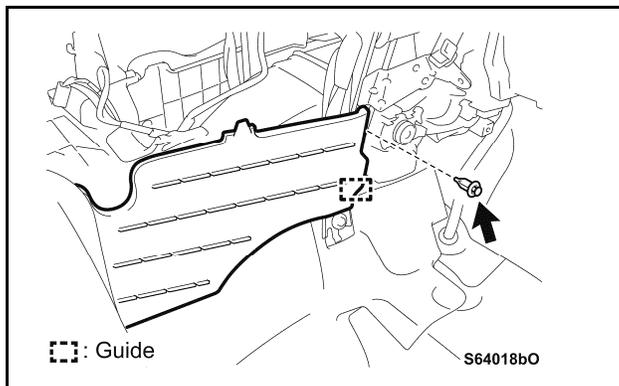


Be careful where the seat belt is fastened in order to prevent any foamed polypropylene material to peel away from the back surface of the floor carpet.



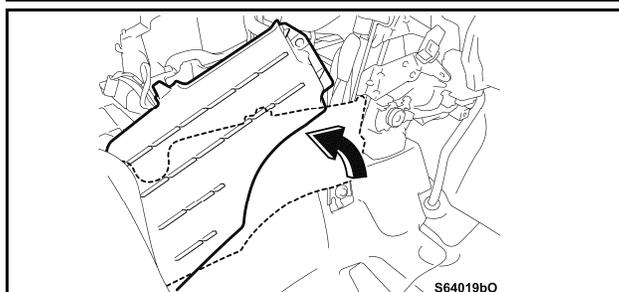
9. REMOVE REAR NO.2 AIR DUCT

- a) Disengage the 6 claws and remove the rear No.2 air duct.



10. SEPARATE FLOOR CARPET BRACKET RH

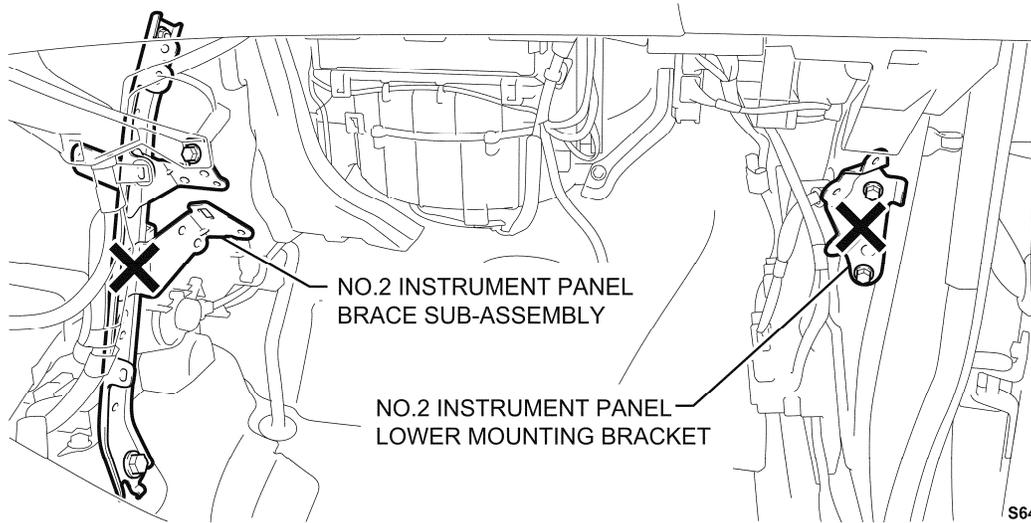
- a) Remove the clip.
b) Disengage the guide to detach the floor carpet bracket RH.



- c) Move the floor carpet bracket RH to where it will not interfere with subsequent procedures.

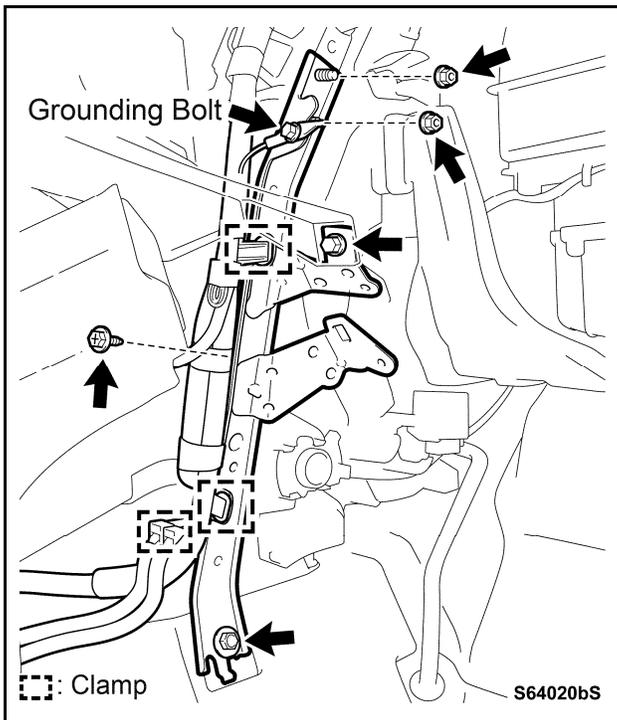
11. REMOVE NO.2 INSTRUMENT PANEL BRACE SUB-ASSEMBLY AND NO.2 INSTRUMENT PANEL LOWER MOUNTING BRACKET

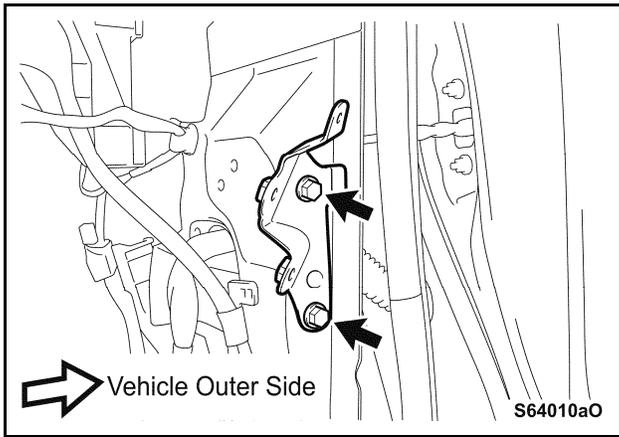
- a) Mark the No.2 instrument panel brace sub-assembly and No.2 instrument panel lower mounting bracket so as not to reinstall them in error.



- b) Remove the No.2 instrument panel brace sub-assembly.

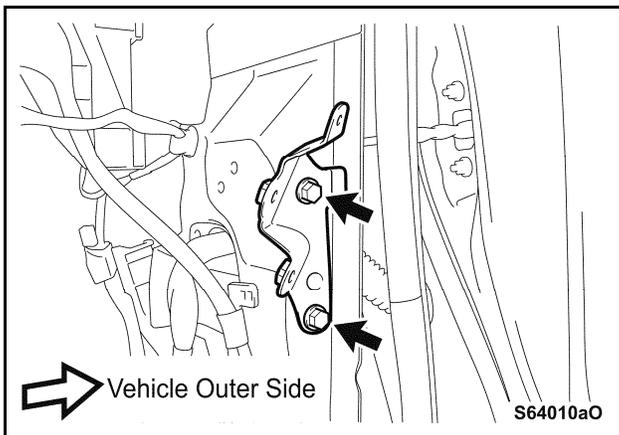
- 1) Disengage the wire harnesses from the 3 clamps, and then remove the grounding bolt.
- 2) Remove the 2 bolts, 2 nuts, screw, and No.2 instrument panel brace sub-assembly.
- 3) Store the removed No.2 instrument panel brace sub-assembly in a separate container so as not to reinstall it in error.





- c) Remove NO.2 instrument panel lower mounting bracket.
- 1) Remove the 2 bolts and No.2 instrument panel lower mounting bracket.
 - 2) Store the removed No.2 instrument panel lower mounting bracket in a separate container so as not to reinstall it in error.

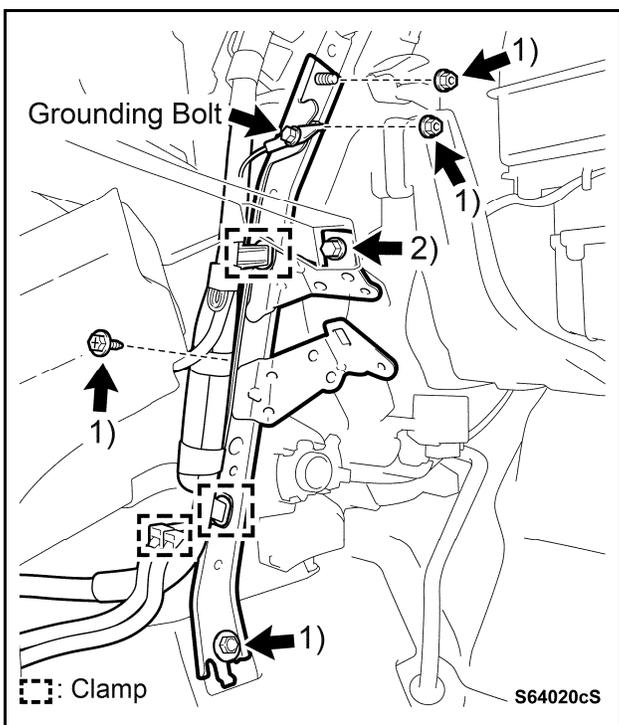
12. INSTALL **NEW** BRACKETS



- a) Install a **NEW** No.2 instrument panel lower mounting bracket.
- 1) Install a **NEW** No.2 instrument panel lower mounting bracket with the 2 bolts.

Specified torque:

10 N*m (102 kgf*cm, 7 ft.*lbf)



- b) Install a **NEW** No.2 instrument panel brace sub-assembly.

- 1) Temporarily install a **NEW** No.2 instrument panel brace sub-assembly with the bolt, 2 nuts and screw.

Specified torque:

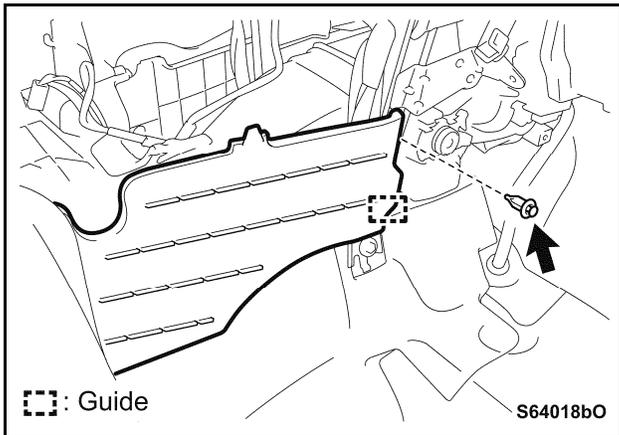
Bolt: 15 ft.*lbf (20 N*m 204 kgf*cm)

Nuts: 15 ft.*lbf (20 N*m 204 kgf*cm)

- 2) Reinstall the bolt.
- 3) Re-engage the wire harnesses with the 3 clamps.
- 4) Reinstall the grounding bolt.

Specified torque:

71 in.*lbf (8.0 N*m, 82 kgf*cm)



13. REINSTALL FLOOR CARPET BRACKET RH

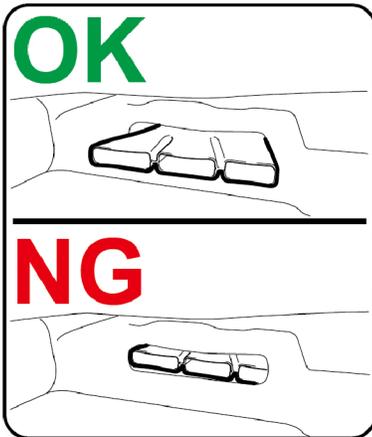
- Re-engage the guide and restore the floor carpet bracket RH in its original position.
- Reinstall the clip.

14. REINSTALL REAR NO.2 AIR DUCT (Requires 2 Workers)

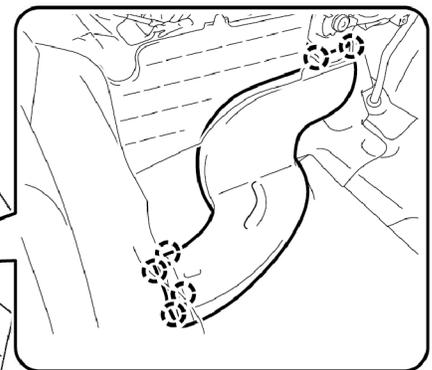
- Re-engage the 6 claws and reinstall the rear No.2 air duct.



Ensure that the rear air duct guide RH is positioned properly by checking its outlet from the rear to confirm that it is protruding outside the floor carpet as shown.



Requires 2 Workers



Claw

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Be careful! *DO NOT* allow the air duct to come into contact with the floor carpet.

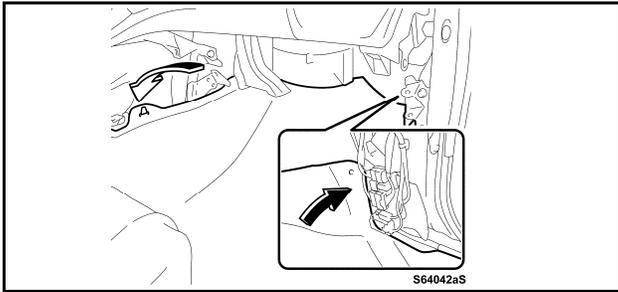


15. REINSTALL FRONT FLOOR CARPET RH

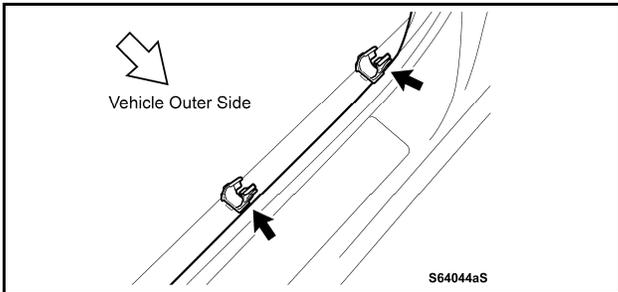
- Unfasten the seat belt and remove the seat cover from the floor carpet RH.
- Place your hand beneath the floor carpet RH and push the carpet toward the center of the vehicle while preventing it from coming into contact with the No.1 air duct sub-assembly.



- DO NOT* allow the floor carpet to come into contact with the air duct.
- DO NOT* cause any foamed polypropylene material to peel away from the back surface of the floor carpet.



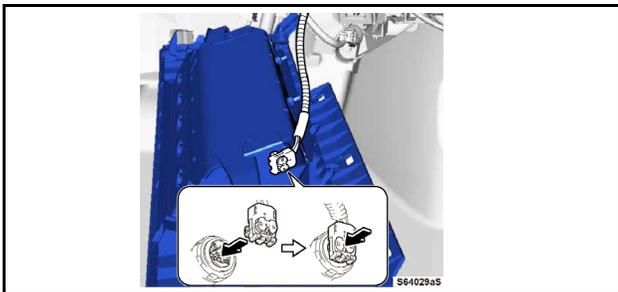
- c) Restore the floor carpet RH to its original position as shown in the illustration.
- d) Re-engage the floor carpet RH with the hook.



- e) Reinstall the 2 floor carpet hooks and re-engage the wire harnesses.
- f) Remove the protective tape.

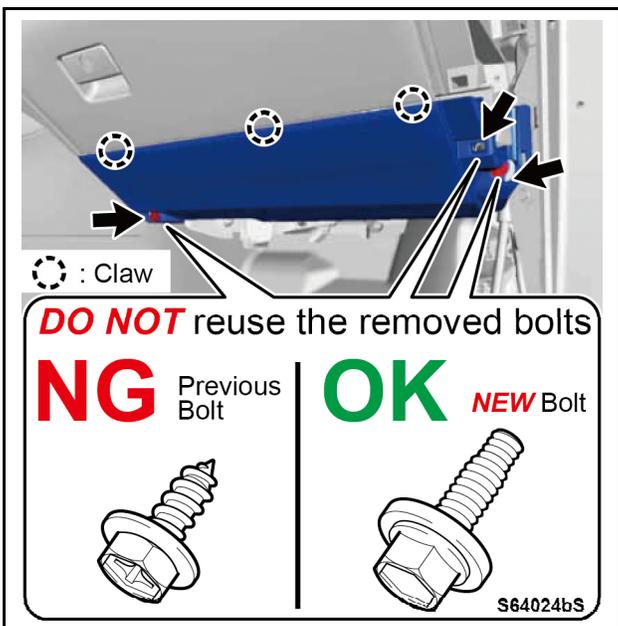
16. REINSTALL FRONT CONSOLE BOX

17. REINSTALL LOWER INSTRUMENT PANEL SUB-ASSEMBLY



18. REINSTALL LOWER NO.2 INSTRUMENT PANEL AIRBAG ASSEMBLY

- a) Reconnect the airbag connector to the lower No.2 instrument panel airbag assembly.
- b) Push in the lock to secure the airbag connector.



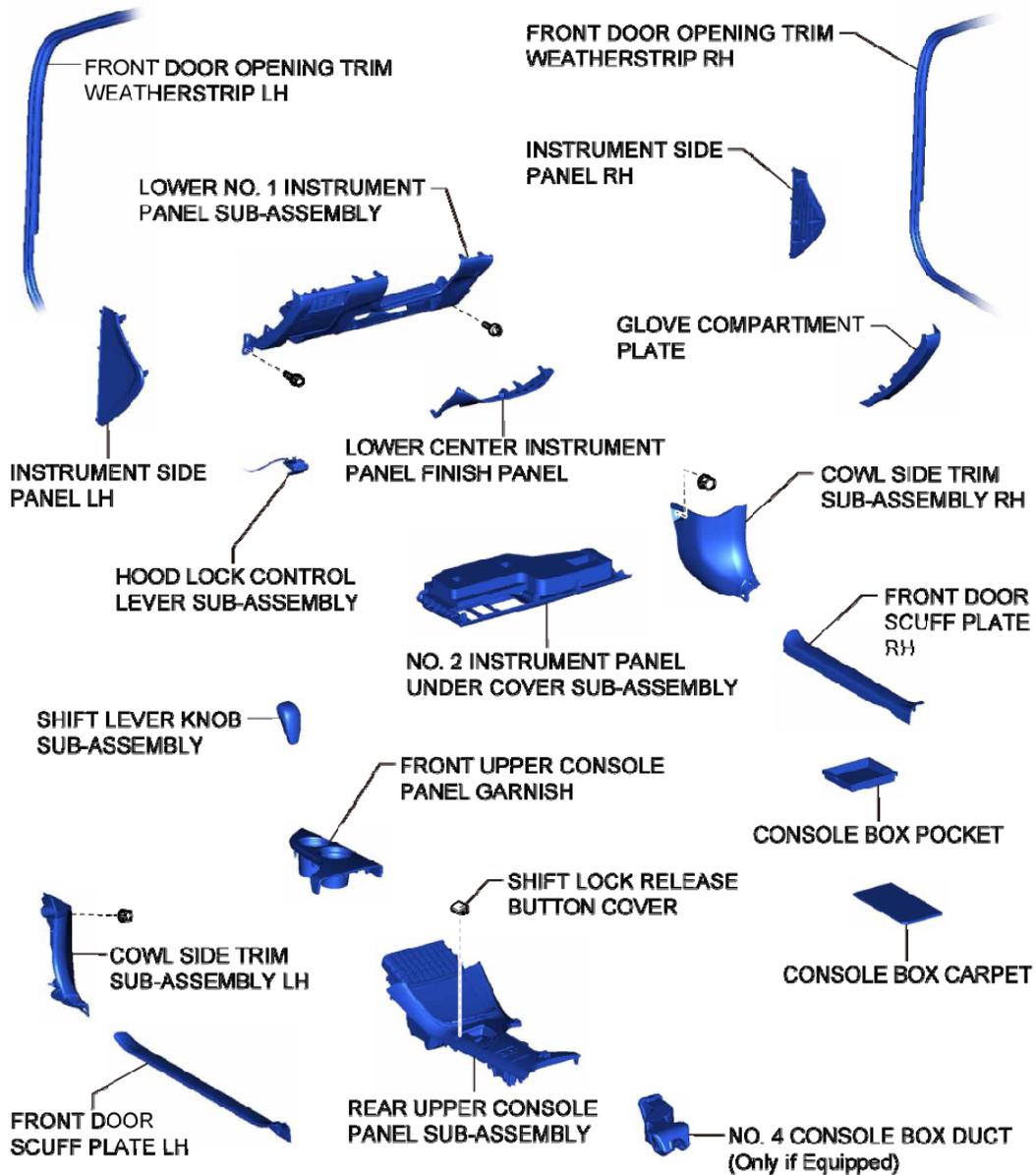
- c) Re-engage the 3 claws to temporarily reinstall the lower No.2 instrument panel airbag assembly.
- d) Install the supplied 3 **NEW** bolts to reinstall the lower No.2 instrument panel airbag assembly.

Specified torque:
7 ft.*lbf , (10 N*m, 102 kgf*cm)

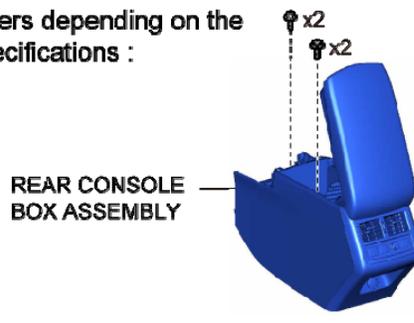
19. REINSTALL REAR CONSOLE BOX ASSEMBLY, CENTER SECTION OF INSTRUMENT PANEL AND ADDITIONAL COMPONENTS

Note: If additional detail is required refer to TIS

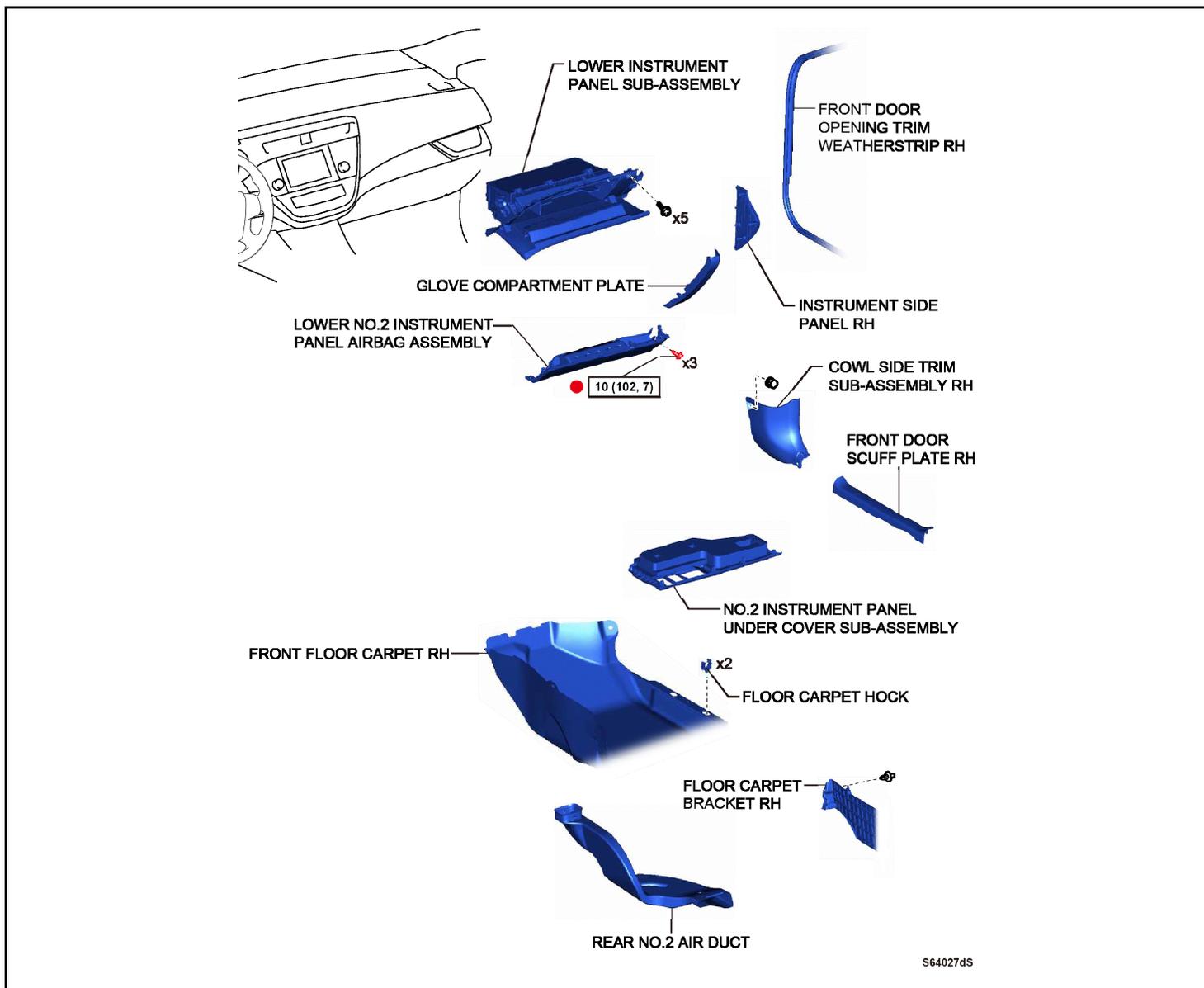
[Refer to TIS for instructions on INSTRUMENT PANEL SAFETY PAD / INSTALLATION](#)



Design differs depending on the vehicle specifications :



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20. RECONNECT CABLE TO NEGATIVE BATTERY TERMINAL

[Refer to TIS for instructions on REPAIR INSTRUCTION / INITIALIZATION](#)

21. CHECK FOR DTC(S)

22. REMOVE SEAT COVER AND RESTORE PASSENGER SEAT POSITION

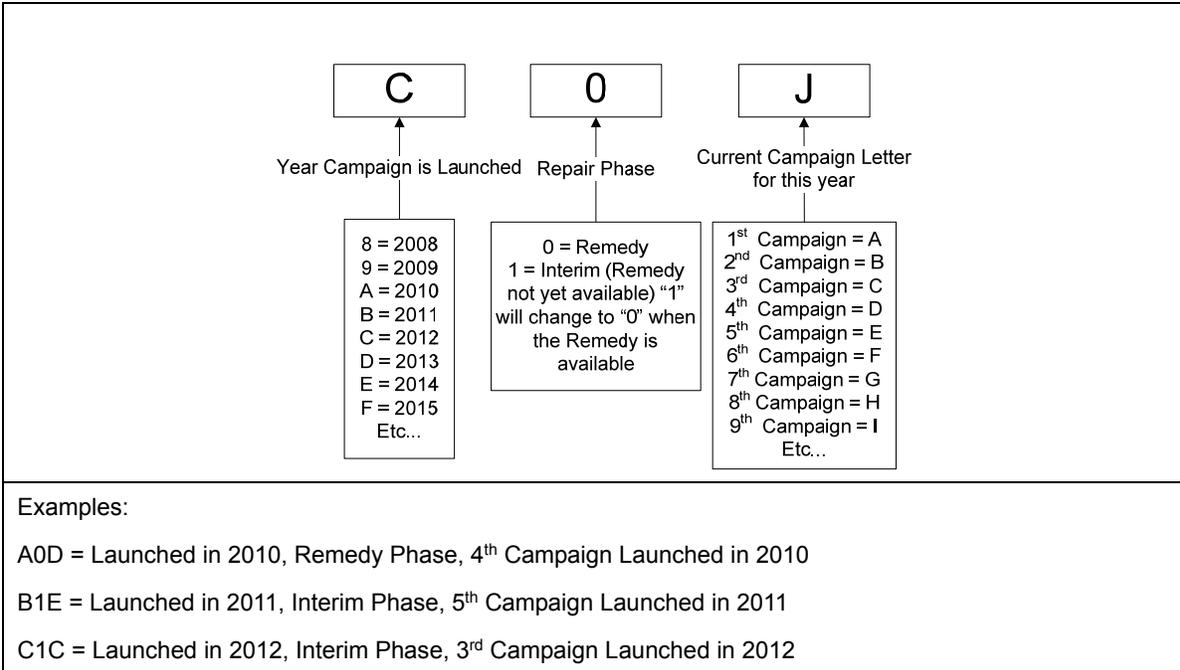
◀ VERIFY REPAIR QUALITY ▶

- Ensure that the bolts were removed during the inspection procedure
- Confirm that okat bolts are torque to spec after inspection
- Confirm customer presets are all set

If you have any questions regarding this **recall**, please contact your regional representative.

VII. APPENDIX

A. CAMPAIGN DESIGNATION DECODER



B. CAMPAIGN PARTS DISPOSAL

As required by Federal Regulations, please make sure all campaign parts (original parts) removed from the vehicle are disposed of in a manner in which they will not be reused, ***unless requested for parts recovery return.***