

TECHNICAL INSTRUCTIONS

FOR SAFETY RECALL 21TA01

NON-DEPLOYMENT OF SIDE AND CURTAIN SHIELD AIRBAGS MAY OCCUR

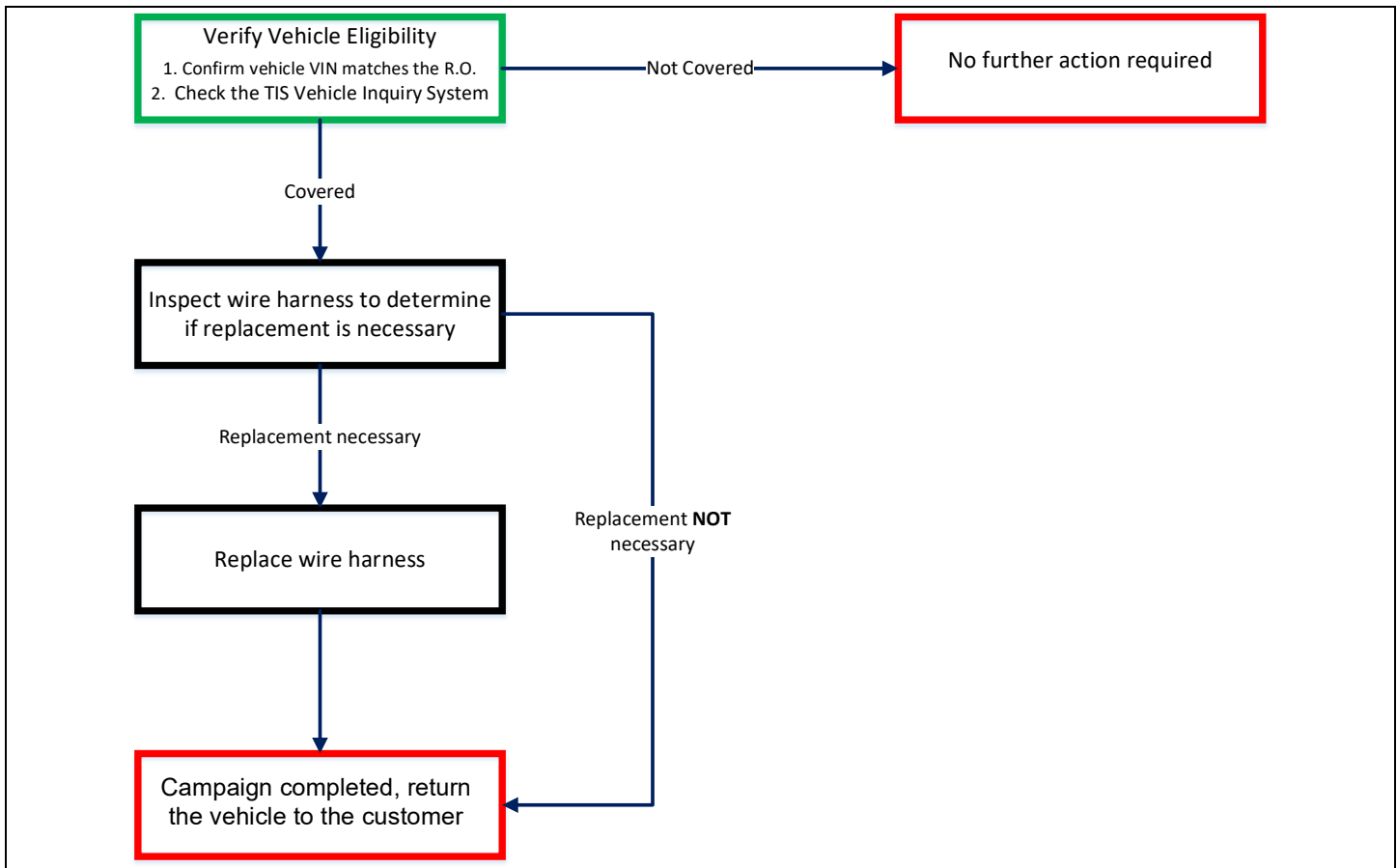
CERTAIN 2009 – 2010 VENZA

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 repair are required to currently have completed all of the following courses:

-T623 Electrical Circuit Diagnosis

It is the dealership’s responsibility to select technicians that have completed the above courses 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

1. CHECK VEHICLE FOR CAMPAIGN ELIGIBILITY

- Compare the vehicles 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.

Note: 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

- If replacement is required, correct part number by VIN will be listed in the Campaign Parts Order Request (CPOR) system or refer to the chart below

Service Part Number	Campaign Part Number	Quantity
82152-0T010	04001-0510T	1
82152-0T030		
82152-0T050		
82152-0T040	04001-0520T	1
82152-0T060		
82152-0T031	04001-0530T	1
82152-0T051		
82152-0T041	04001-0540T	1
82152-0T061		

A. TOOLS & EQUIPMENT

- Techstream
- Standard Hand Tools
- Torque Wrench
- Camera

B. MATERIALS

- Butyl Tape

IV. BACKGROUND

The subject vehicles have a sensor in the driver-side front door that is connected to the airbag system control unit by electrical wires. One of these wires can fracture over time. If this occurs, the airbag warning lamp could illuminate and the sensor in the door could become inoperable. This may prevent the side airbag and curtain shield airbag on the driver side from deploying in certain types of collisions, increasing the risk of injury in the event of a crash where those airbags are needed.

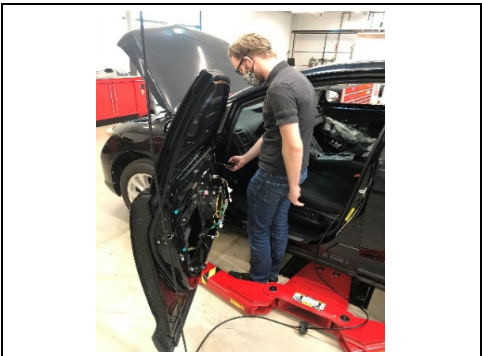
V. WIRE HARNESS INSPECTION



1. PERFORM HEALTH CHECK ON VEHICLE

- a. Using a Techstream, perform a Health Check and record any DTCs found

NOTE: This Safety Recall only covers inspection or replacement of the driver side door harness for the condition detailed in these instructions. It does not cover the diagnosis or replacement of any other parts on the vehicle not related to this Safety Recall

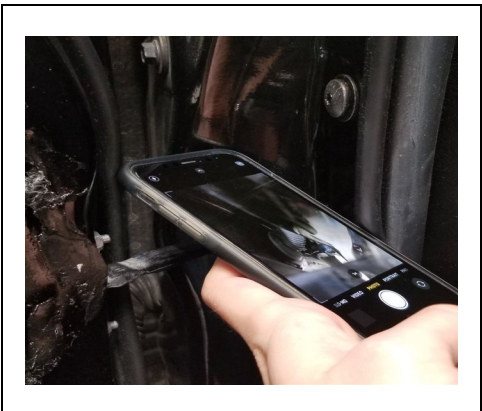


2. TAKE WIRE HARNESS INSPECTION PHOTO

- a. Open the driver side door
- b. Remove rubber grommet from the wire harness attachment point on driver's door
- c. Stand between the door and body as shown in the image



- d. Using your hands, remove and hold the wire harness grommet 40mm (approximately 1.5 inches) away from the black wire harness tape



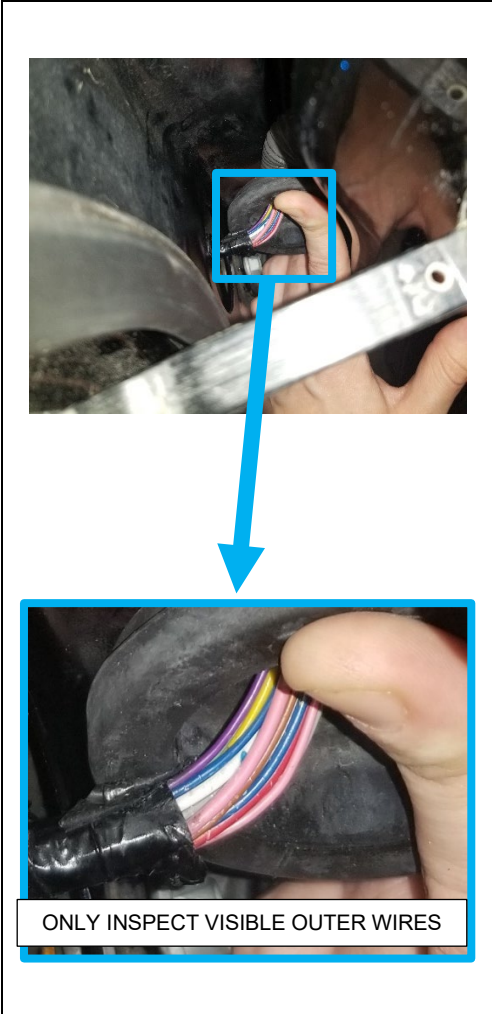
- e. Point the camera towards the door wire harness
- f. Take a picture of the top of the wire harness
- g. Picture must be taken from above the door check to ensure proper angle

NOTE:

- You will need to use your camera flash or supplemental lighting for this photo
- It is important that the photo is clear and without glare or washed out spots in the photo



It is critical this photo being taken from the correct angle and wire colors clearly visible. If not taken correctly this can result in incorrect judgement of the wire harness and error from inspection website.

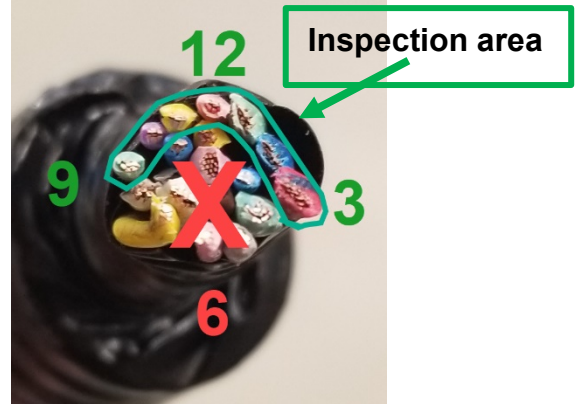


3. REVIEW WIRE HARNESS PHOTO

- a. Using your camera review the photo based on the following criteria.

NOTE: You will need to zoom-in to inspect for specific wire color

1. Only inspect wires on the top half of the harness between the 9 'clock to 3 o'clock position



2. Inspect for the following wires in your picture

Yellow AND a second Yellow Wire between 9 and 3 position

***The yellow wire may have a black stripe on it**

Remedy Inspection Website

<https://venzaharness.imagespm.info>

Username: 5-digit Dealer Code

Default Password: XXXXX

Each dealer only has a single account, please ensure that the reset password is communicated to all technicians and dealer associates that will be utilizing this website.

4. Log into Remedy Inspection Website


a. Enter all requested information along with VIN


b. Upload photo taken of the wire harness

Note: Sample of a good photo will be displayed for reference on the left-hand side of screen

c. Upon submission the Website will analyze photo

Note: It may take website up to 30 seconds to analyze photo upon submission

Sample Photo: 

Upload Your Photo: 

Follow Technical Instructions provided to dealership for photo orientation and capture.

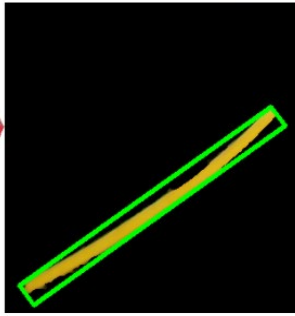
20210915_160152.jpg

Example 1:
One or No Yellow Wires Present – Replacement Not Required

Original Photo, Cropped



AI Detection



At least one yellow wire detected

Our system has detected the presence of one yellow wire and has marked the appropriate selection below. Review the photo and confirm selection. If you disagree with the system's selection, please enter the correct selection and continue.

Two Yellow Wires Present - Replacement Required

One or No Yellow Wires Present - No Replacement Required

CANCEL

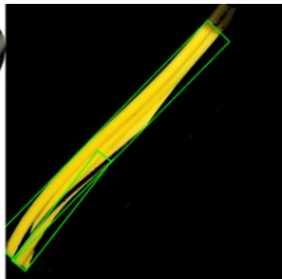
CONTINUE

Example 2:
Two Yellow Wires Present – Replacement Required

Original Photo, Cropped



AI Detection



At least two yellow wires detected

Our system has detected the presence of two yellow wires and has marked the appropriate selection below. Review the photo and confirm selection. If you disagree with the system's selection, please enter the correct selection and continue.

Two Yellow Wires Present - Replacement Required

One or No Yellow Wires Present - No Replacement Required

CANCEL

CONTINUE

d. Upon analysis, the website will provide the following

- LH Side-a cropped image of photo submitted, focusing on harness wire bundle (LH side)
- RH side – Analysis of wire bundle with Yellow or Yellow with Black stripe wires found in between the 9 and 3 position (Frame will blackout all other wires, if no yellow found, the image will be a black square).
- Suggested repair procedure will be provided at bottom of screen.

e. Select repair procedure to be performed on vehicle based on website suggestion and manual inspection of harness

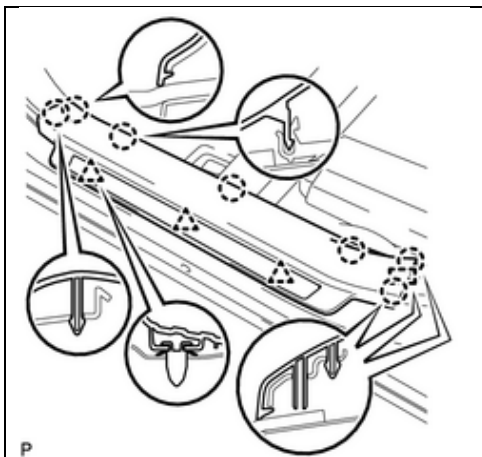
f. Press continue and print the final result screen to document Repair Record Number for claim filing.

VI. WIRE HARNESS REMOVAL

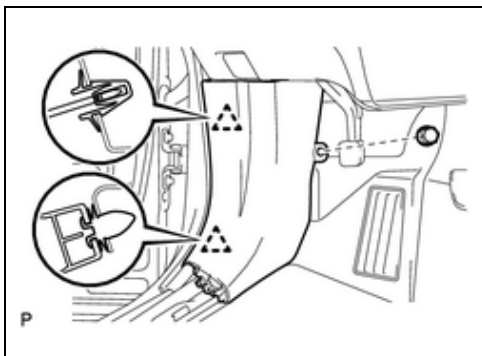
1. CONFIRM OPERATION OF WINDOW SWITCHES, DOOR LOCKS, MIRROR LIGHTS/DEFOG TO UNDERSTAND VEHICLE CONDITION BEFORE STARTING REPAIR AND DOCUMENT ACCORDINGLY ON THE REPAIR ORDER.
2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

STOP

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.



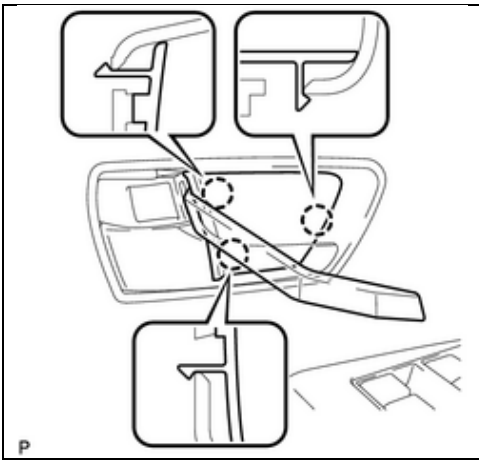
3. REMOVE FRONT DOOR SCUFF PLATE LH
 - a. Disengage the 3 clips, 7 claws and guide, and remove the front door scuff plate LH.



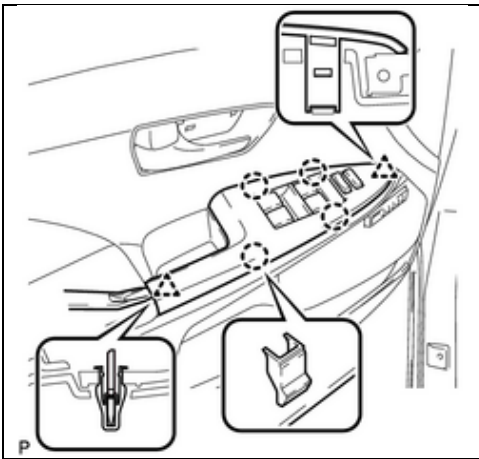
4. REMOVE COWL SIDE TRIM SUB-ASSEMBLY LH
 - a. Remove the clip
 - b. Disengage the 2 clips and remove the cowl side trim sub-assembly LH.



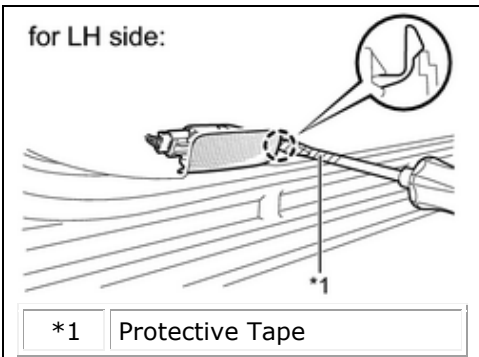
5. DISCONNECT DOOR WIRE HARNESS CONNECTOR FROM JUNCTION BLOCK
 - a. Disconnect the 3 connectors shown in the image



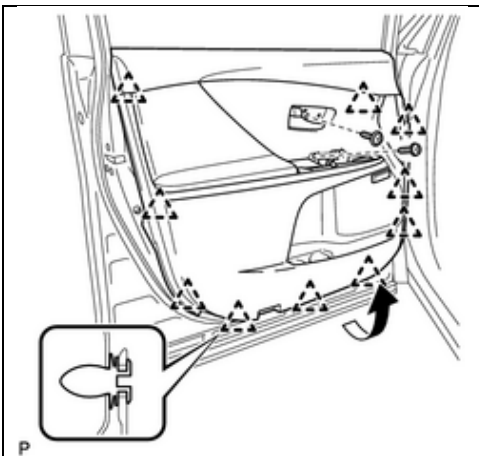
- 6. REMOVE FRONT DOOR INSIDE HANDLE BEZEL PLUG**
- a. Using a molding remover, disengage the 3 claws and remove the front door inside handle bezel plug.



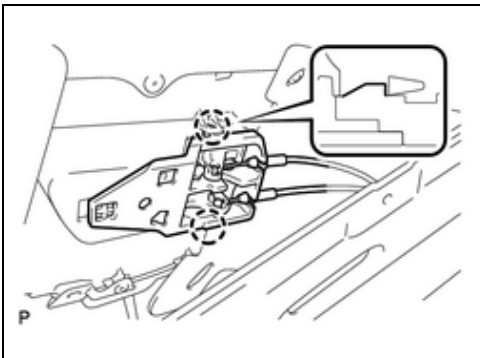
- 7. REMOVE POWER WINDOW REGULATOR MASTER SWITCH ASSEMBLY WITH FRONT DOOR ARMREST BASE PANEL**
- a. Using a molding remover, disengage the 2 clips and 4 claws.
 - b. Disconnect the connector and remove the power window regulator master switch assembly with front door armrest base panel.



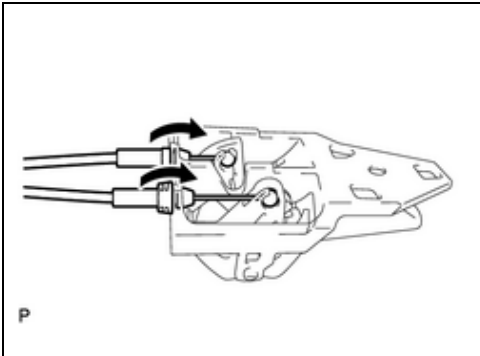
- 8. REMOVE COURTESY LIGHT ASSEMBLY**
- a. Using a screwdriver wrapped with protective tape, disengage the claw.
 - b. Disconnect the connector and remove the courtesy light assembly.



- 9. REMOVE FRONT DOOR TRIM BOARD SUB-ASSEMBLY**
- a. Remove the 2 screws.
 - b. Using a clip remover, disengage the 10 clips.
 - c. Pull out the front door trim board sub-assembly in the direction indicated by the arrow as shown in the illustration.
 - d. Raise the front door trim board sub-assembly and remove the front door trim board sub-assembly together with the front door inner glass weatherstrip.



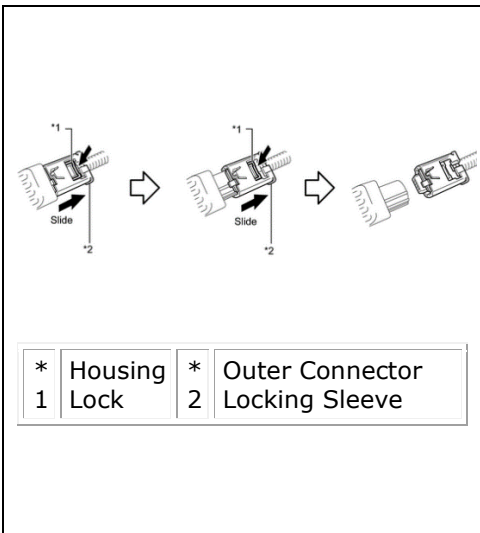
- e. Disengage the 2 claws and disconnect the front door inside handle sub-assembly.



10. REMOVE FRONT DOOR INSIDE HANDLE SUB-ASSEMBLY

- a. Disconnect the front door lock remote control cable, and front door inside locking cable and remove the front door inside handle sub-assembly.

11. REMOVE FRONT DOOR SERVICE HOLE COVER

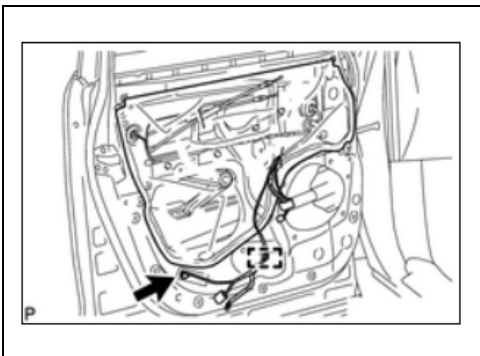


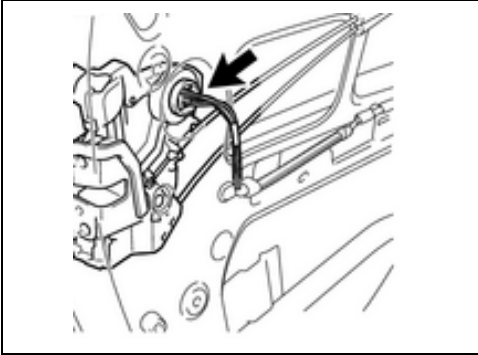
12. DISCONNECT THE SIDE DOOR AIRBAG SENSOR

- a. Confirm that the ignition switch is off.
- b. Confirm that the cable is disconnected from the negative (-) battery terminal.

STOP Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

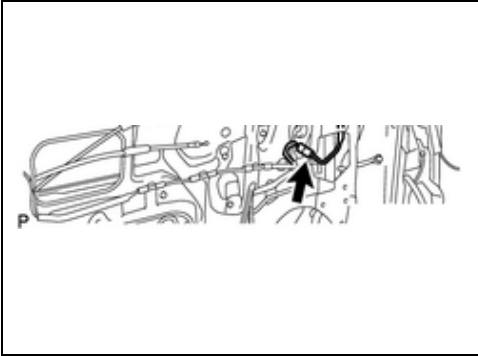
- c. Disconnect the connector.
 - 1) Push and hold the white housing lock, and slide the yellow outer connector locking sleeve.
 - 2) Push and hold the white housing lock again, and slide the yellow outer connector locking sleeve to disconnect the connector.
- d. Remove the side airbag sensor ground bolt from the door panel





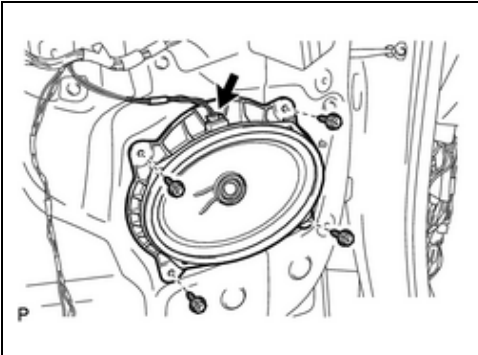
13. DISCONNECT FRONT DOOR LOCK CONNECTOR

- a. Disconnect the front door lock connector



14. DISCONNECT MIRROR CONNECTOR

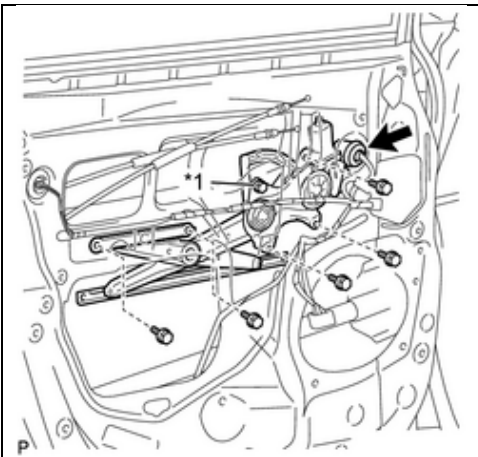
- a. Disconnect the mirror connector



15. DISCONNECT SPEAKER CONNECTOR

- a. Disconnect the speaker connector

NOTE: DO NOT REMOVE THE SPEAKER ASSEMBLY



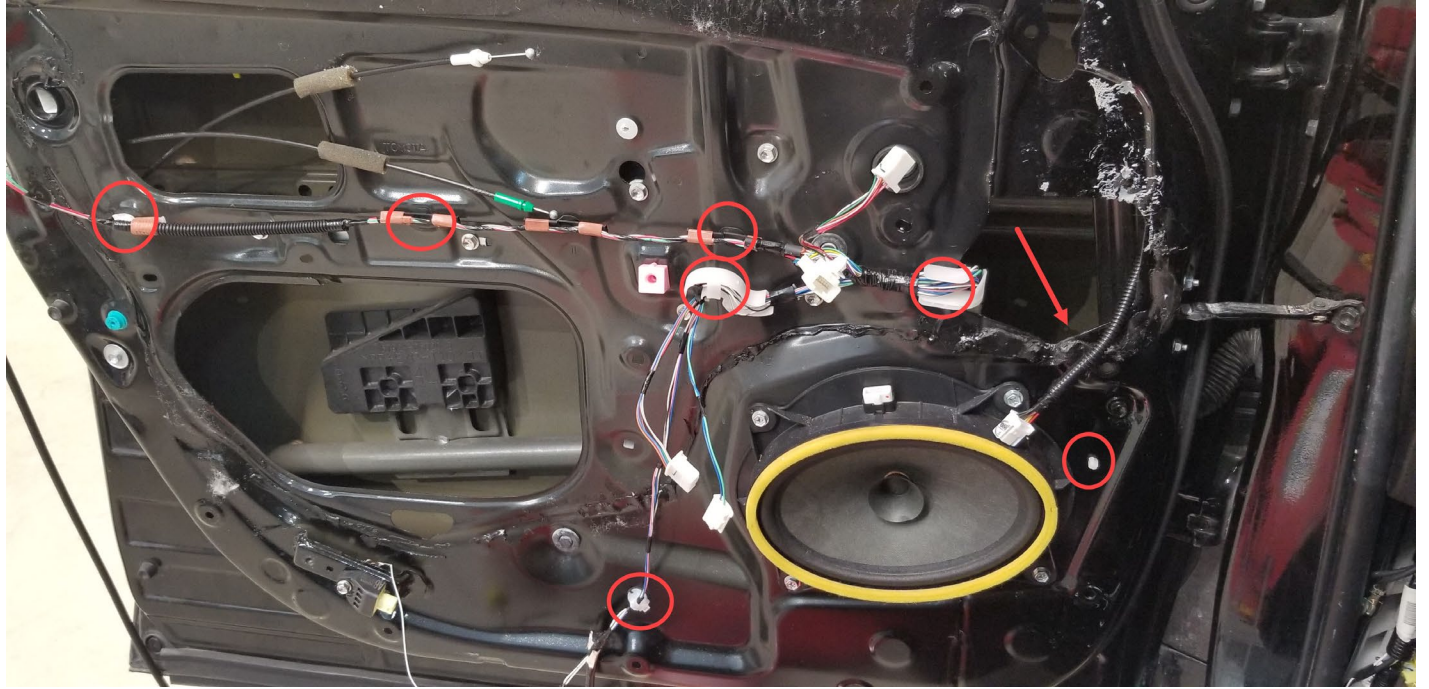
16. DISCONNECT WINDOW MOTOR CONNECTOR

- a. Disconnect the connector

NOTE: DO NOT REMOVE THE WINDOW MOTOR ASSEMBLY

17. REMOVE WIRE HARNESS ASSEMBLY

- a. Disengage the 8 clips from the door panel
- b. Remove the wire harness assembly by pulling it through the access hole above the speaker



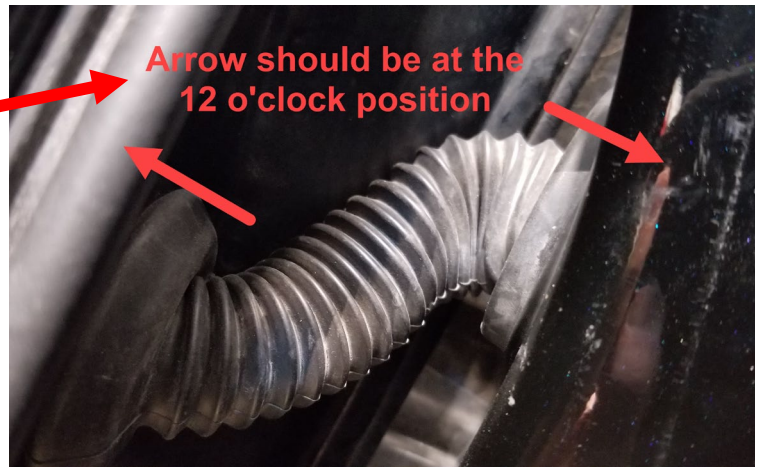
VII. HARNESS INSTALLATION

1. INSTALL WIRE HARNESS ASSEMBLY

- a. Route the wire harness through the door and body.
- b. Secure the rubber grommets to the door and body with the arrow on the grommet facing up.



It is critical that the wire harness grommets be installed with the arrow pointing upward. Otherwise, the wire harness will be twisted and can be damaged.



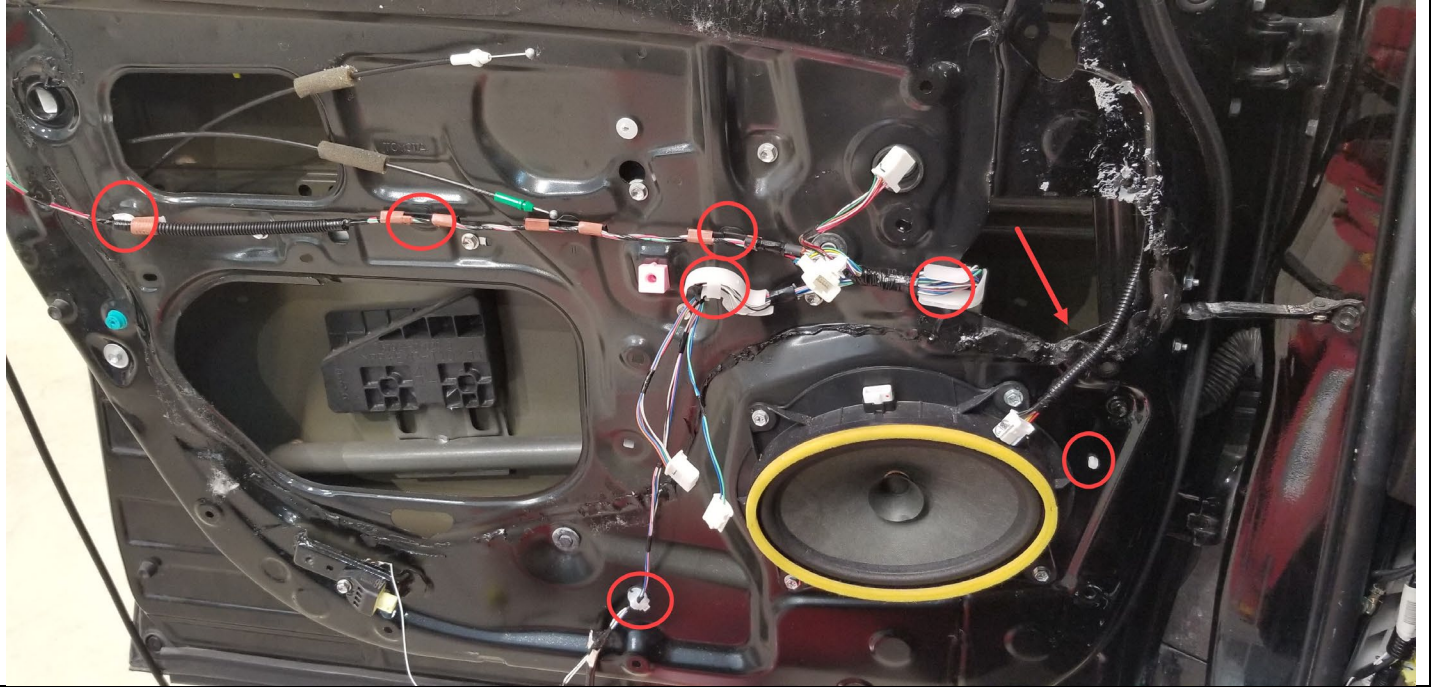
2. CONNECT DOOR WIRE HARNESS CONNECTOR FROM JUNCTION BLOCK

- a. Connect the 3 door wire harness connectors into the junction block

3. INSTALL WIRE HARNESS ASSEMBLY

- a. Route wire harness through front door service hole cover
- b. Secure front door service hole cover to door with butyl tape
- c. Engage the 8 clips to the door panel

NOTE: Picture below is shown without service hole cover



4. CONNECT FRONT AIRBAG SENSOR

- a. Connect the front airbag sensor connector

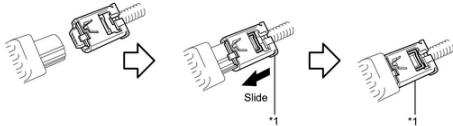
NOTICE:

When connecting the airbag connector, take care not to damage the airbag wire harness.

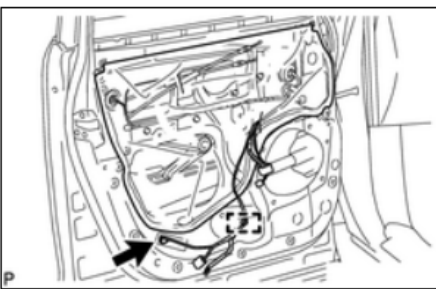
(1) Before connecting the connector, check that the position of the white housing lock is correct as shown in the illustration.

- b. Install the side airbag sensor ground bolt to the door panel

Torque: 8.0 N·m {82 kgf·cm, 71in·lbf}

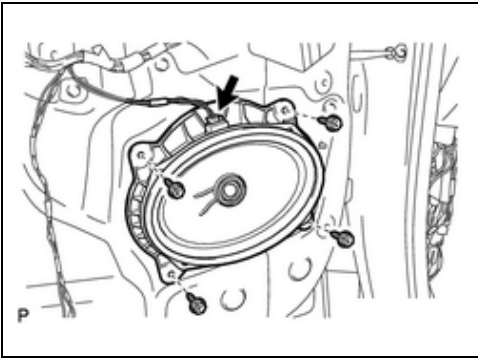


*1 Outer Connector Locking Sleeve





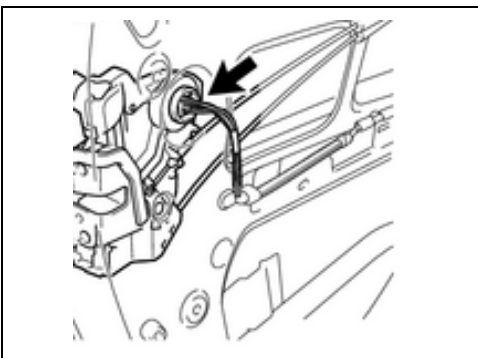
- 5. CONNECT WINDOW MOTOR CONNECTOR**
a. Connect the window motor connector



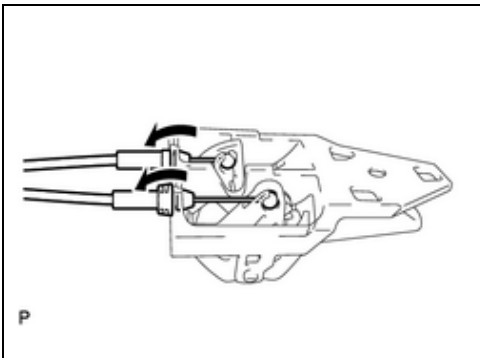
- 6. CONNECT SPEAKER CONNECTOR**
a. Connect the speaker connector



- 7. CONNECT MIRROR CONNECTOR**
a. Connect the mirror connector

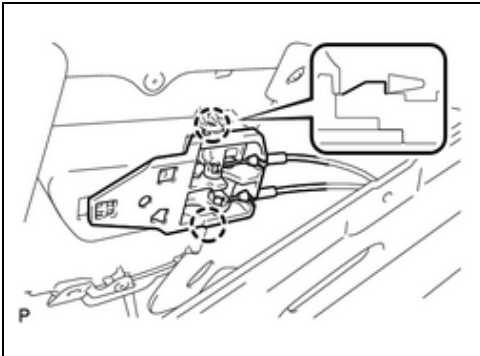


- 8. CONNECT FRONT DOOR LOCK CONNECTOR**
a. Connect the front door lock connector

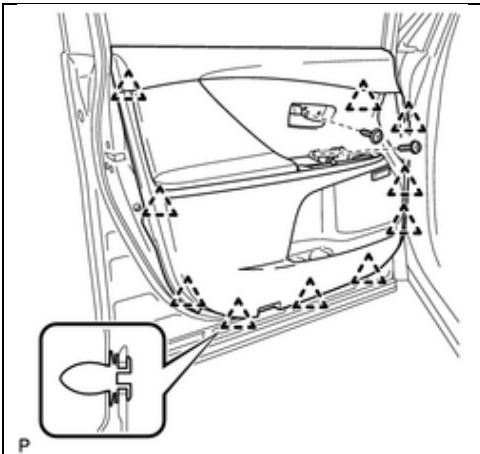


9. INSTALL FRONT DOOR INSIDE HANDLE SUB-ASSEMBLY

a. Connect the front door lock remote control cable assembly and front door inside locking cable assembly to the front door inside handle.



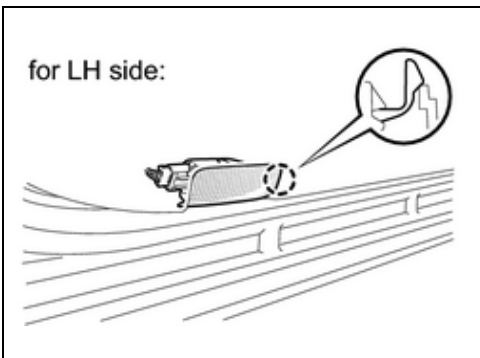
b. Engage the 2 claws and install the front door inside handle sub-assembly to the rear of the door trim board sub-assembly.



10. INSTALL FRONT DOOR TRIM BOARD SUB-ASSEMBLY

a. Engage the 10 clips and install the front door trim board sub-assembly.

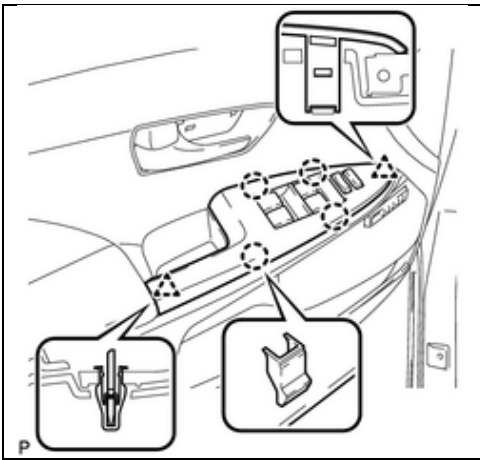
b. Install the 2 screws.



11. INSTALL COURTESY LIGHT ASSEMBLY

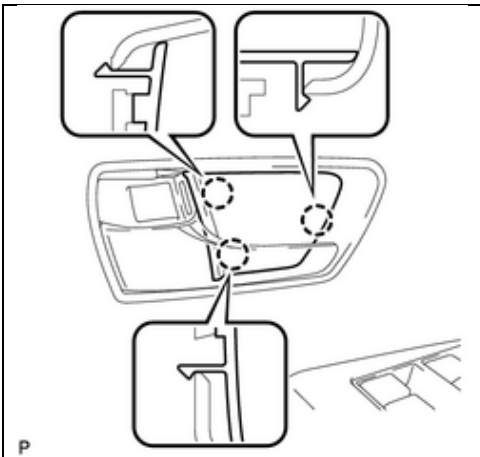
a. Connect the connector.

b. Engage the claw to install the courtesy light assembly.



12. INSTALL POWER WINDOW REGULATOR MASTER SWITCH ASSEMBLY WITH FRONT DOOR ARMREST BASE PANEL

- a. Connect the connector.
- b. Engage the 2 clips and 4 claws, and install the power window regulator master switch assembly with front door armrest base panel.



13. INSTALL FRONT DOOR INSIDE HANDLE BEZEL PLUG

- a. Engage the 3 claws and install the front door inside handle bezel plug.

14. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

15. INITIALIZATION

- a. Click the link to access TIS for repair instructions

2009	Doc ID: RM00000315Z010X
2010	Doc ID: RM00000315Z01QX

16. INSPECT SRS WARNING LIGHT



1. PERFORM HEALTH CHECK ON VEHICLE

- a. Using a Techstream, perform a Health Check and confirm no DTC's related to this repair are present

◀ VERIFY REPAIR QUALITY ▶

- Confirm window, mirror, speaker, and door lock operation
- Confirm interior door handle opens.
- Confirm initializations have been performed

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

VIII. APPENDIX

A. PARTS DISPOSAL

In accordance with Federal law, please make sure all recalled 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.**

B. CAMPAIGN DESIGNATION DECORDER

