TECHNICAL INSTRUCTIONS

FOR

SAFETY RECALL 20TA03

INCOMPLETE OR NONDEPLOYMENT OF AIRBAGS AND/OR SEAT BELT PRETENSIONERS MAY OCCUR

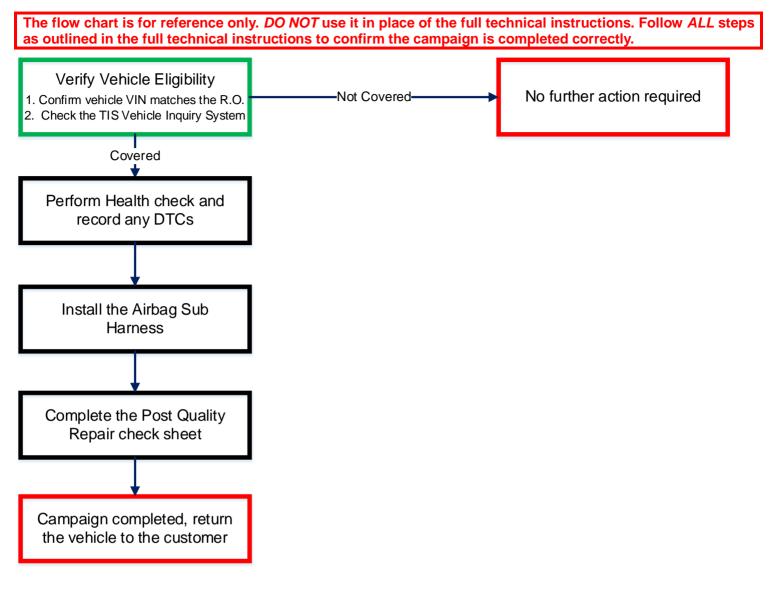
CERTAIN 2012 AVALON

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 currently hold <u>at least one</u> of the following certification levels:

- Expert (Electrical or Hybrid)
- Master
- Master Diagnostic Technician

It is the dealership's responsibility to select technicians with the above certification level or greater to perform this recall 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

A. COVERED VIN RANGE

NOTE:

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

III. PREPARATION

A. PARTS

Part Number		Part Description		Quantity
04009-98112		Airbag Harness Kit*		1
	* <u>The</u>	kit above includes the following parts:		
Part	Number	Part Description	Quantity	,
8282	I-12C30	Urethane Sheet	1	
8917 ⁻	1-12020	Airbag Sub Harness	1	
00070	10400	Water Guard Sheet	1	
09273	9-12180	5.91in. (150mm) x 5.91in.(150mm)		
		Water Guard Sheet	1	
89279	9-12190	4.72in. (120mm) x 5.91in.		
		(150mm)		
80270	0_10000	Water Guard Sheet	1	
09273	9279-12200	3.15in. (80mm) x 3.94in.(100mm)	I	
89639	-12020**	Cable Tie	7	
90980)-12878	Connector Holder	1	
**: NO	T required	to use all the cable ties.		

B. TOOLS & EQUIPMENT

- Standard Hand Tools
- Work Gloves
- Techstream
- Work GlovesMolding Remover

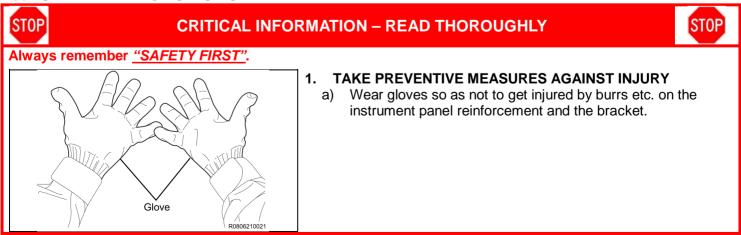
- C. MATERIALS
 - Protective Tape
 - Marker pen

• Vinyl Tape

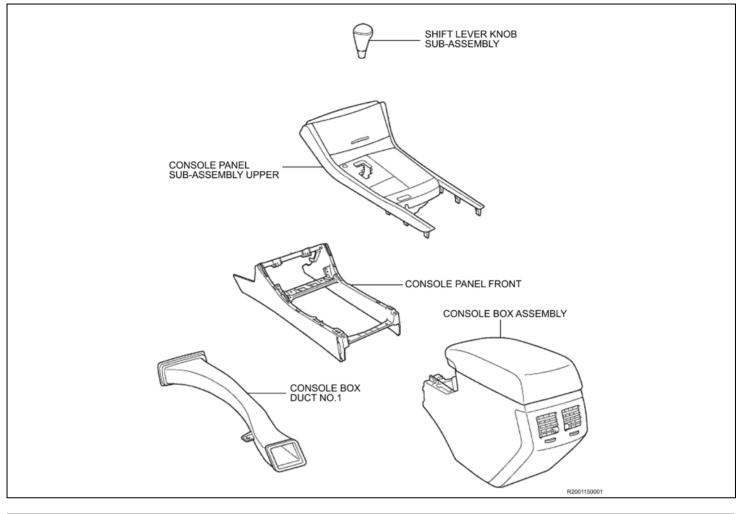
IV. WORK PROCEDURE TABLE OF CONTENTS

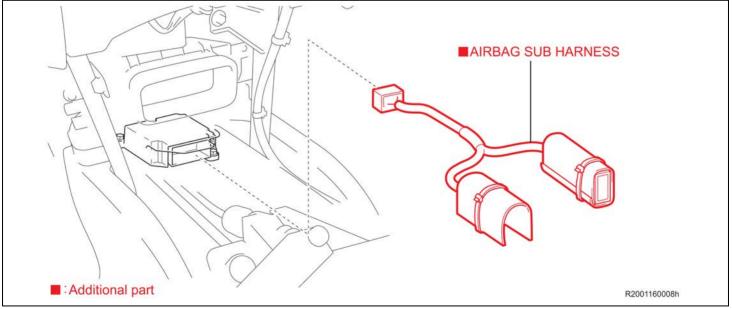
SA	FETY PRECAUTIONS	SECTION V.
INS	STALL AIRBAG SUB HARNESS	SECTION VI.
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V. SAFETY PRECAUTIONS



VI. INSTALL AIRBAG SUB HARNESS COMPONENTS







- 1. PERFORM HEALTH CHECK
 - 1. Using a Techstream, perform a Health Check and record any DTCs found.

NOTE: A Health check must be performed on every vehicle. Record any DTCs as they are used to confirm the vehicles final state after repair and aid in any additional discussions needed with the customer

2. DISCONNECT THE NEGATIVE BATTERY CABLE



Wait at least 90 seconds after disconnecting the cable from the negative battery terminal to prevent airbag and seat belt pretensioner deployment.
Follow all precautions as outlined on TIS before servicing the SRS system.

3. DISCONNECT THE CONNECTOR OF THE AIRBAG SENSOR ASSEMBLY Click the link below to access TIS for instructions <u>SUPPLEMENTAL RESTRAINT SYSTEMS: CENTER AIRBAG SENSOR ASSEMBLY: REMOVAL</u> (Doc ID: RM000000UWV06WX)

4. PREPARE AIRBAG SUB HARNESS

Click the play button to watch a video on how to prepare the airbag sub harness **NOTE: The video may take several minutes to load depending on internet connection.**



STOP

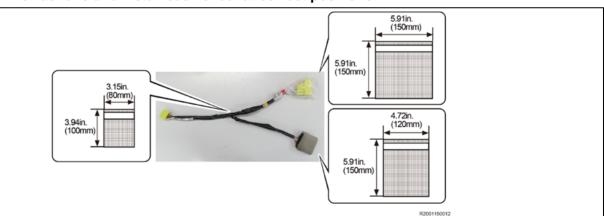
IMPORTANT

STOP

The procedure shown in these technical instructions is for 2012 AVALON only. *DO NOT* use it for other vehicle models.

Install each water guard sheet properly

There are 3 different water guard sheets which will be used to protect the airbag sub harness. Each water guard sheet has double-sided tape on a side. If you install a sheet at a wrong position and seal with the tape, the sheet will no longer be reusable. Please make sure to follow the instructions on these Technical Instructions and install each sheet at correct positions.

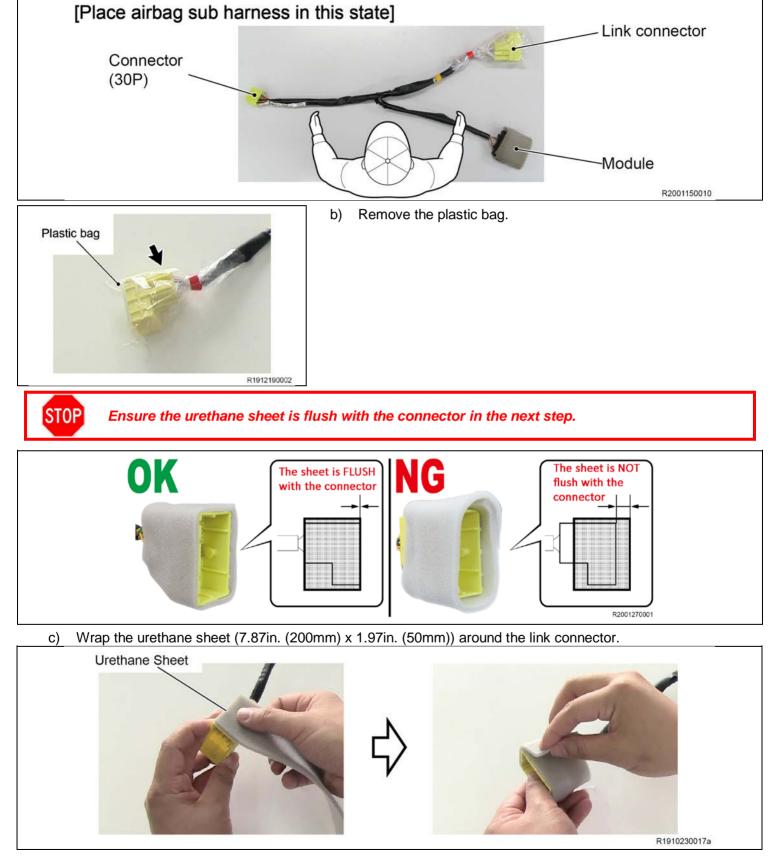


Handling of airbag sub harness

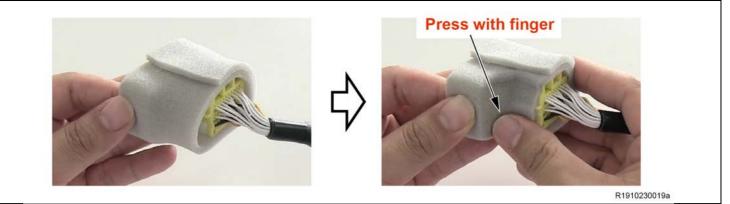
- **DO NOT** twist the airbag sub harness forcibly as it may be damaged.
- **DO NOT** touch the terminals of the link connector. Also, make sure that no foreign matter enters the terminals of the link connector.



- a) Before starting the work, place the airbag sub harness following the instructions below to ensure you are dealing with it at the proper orientation.
 - (1) Place the module and link connector to the right side seen from you.
 - (2) Place the connector (30P) to the left side seen from you.



d) Press the position shown in the illustration (concave part) with your finger to remove any gap.



Place separating point of sub harness to the center 3.94in. (100mm) 3.15in. (80mm) E2001150016





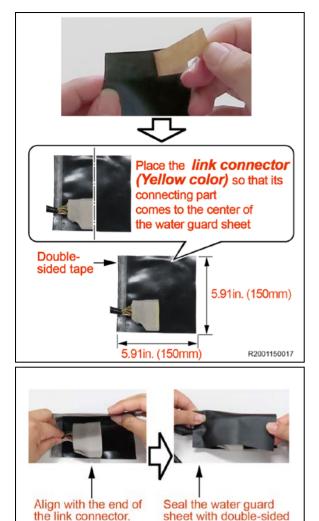
e) Remove the release paper of the double-sided tape.

f) Place the smallest water guard sheet (3.15in. (80mm) x 3.94in. (100mm)) so that its double-sided tape side comes to the farther side from you, and then place the separating point of the airbag sub harness at the center of the sheet.
 NOTE:

DO NOT place the water guard sheet in a wrong direction. Make sure that the double-sided tape side is on the farther side from you.

- g) Wrap the water guard sheet from the side without doublesided tape, and then seal with double-sided tape for temporary fixing.
- h) Double-check the airbag sub harness is placed correctly on the sheet.
- i) Fix the both ends of the water guard sheet with vinyl tape. **NOTE:**

-Make sure that the water guard sheet is securely fixed. -It is recommended you used a colored tape as it will be used to position the harness in the vehicle



j) Remove the release paper of the double-sided tape.

k) Place the biggest water guard sheet (5.91in. (150mm) x 5.91in. (150mm)) so that its double-sided tape side comes to the left side, and then place the *link connector (Yellow <u>color</u>)* as shown in the illustration.
NOTE:
Place the link connector so that its connecting part to

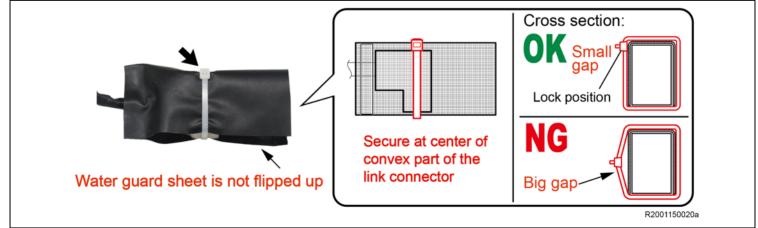
Place the link connector so that its connecting part to instrument panel wire comes to the side with no double-sided tape of the water guard sheet.

- I) Fold the water guard sheet so that its end is aligned with the end of the link connector.
- m) Make sure that the both ends of the folded water guard sheet and the link connector are aligned, and then seal the water guard sheet with double-sided tape.
- n) Set a cable tie at center of the convex part of the link connector and fix the water guard sheet and link connector securely.
 - NOTE:
 - A gap between the cable tie and the water guard sheet may cause the tie eventually be loosened and released. Make sure that the gap is reduced as much as possible.
 - Make as little wrinkles as possible on the water guard sheet when installing it.

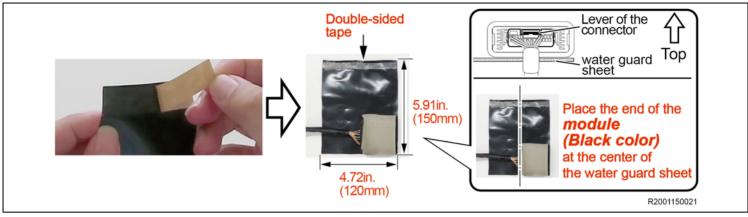
R2001150019

o) Cut off the excess of the cable tie.

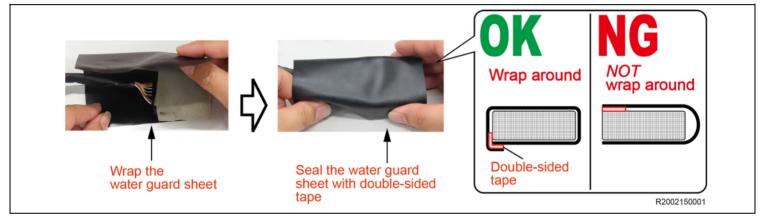
tape



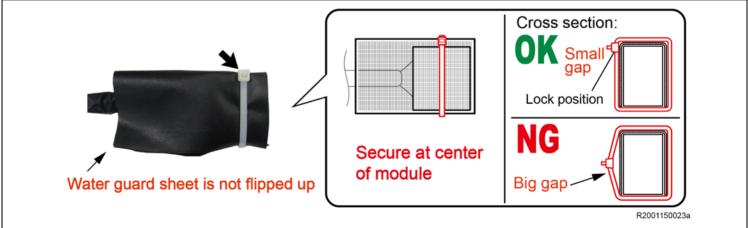
- p) Remove the release paper of the double-sided tape.
- q) Place the water guard sheet (4.72in. (120mm) x 5.91in. (150mm)) so that its double-sided tape side comes to the farther side from you, and then place the *module (Black color)* as shown in the illustration.



- r) Wrap the water guard sheet around so that it does not wrinkle.
- s) Make sure that the water guard sheet is not wrinkled and seal the water guard sheet with double-sided tape.



- t) Set a cable tie at center of the module and fix the water guard sheet and module securely. **NOTE:**
 - A gap between the cable tie and the water guard sheet may cause the tie eventually be loosened and released. Make sure that the gap is reduced as much as possible.
 - Make as little wrinkles as possible on the water guard sheet when installing it.
- u) Cut off the excess of the cable tie.



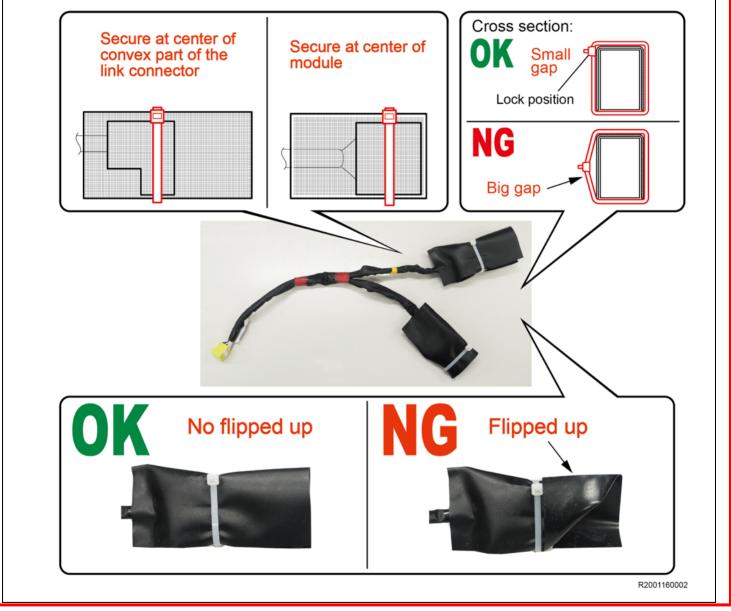
INTERMEDIATE INSPECTION (BY ANOTHER WORKER)

STOP

Confirm airbag sub harness is in proper condition

STOP

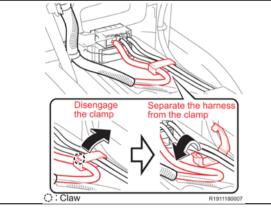
- Check the cable tie is fixed properly and if it is installed loose (big gap), tighten up the cable tie until fixed tightly (small gap).
- Confirm that the cable tie is installed at the center of the convex part of the link connector.
- Confirm that the cable tie is installed at the center of the module.
- Confirm that the water guard sheet is not flipped up.





DO NOT use it for other vehicle models.

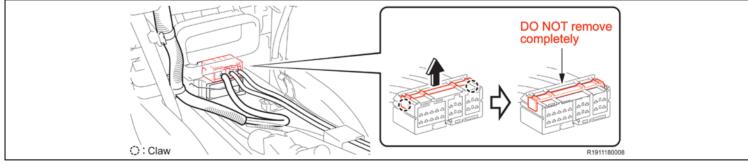
- a) Disengage the clamp.
- b) Separate the harness of the connector (30P) from the clamp.

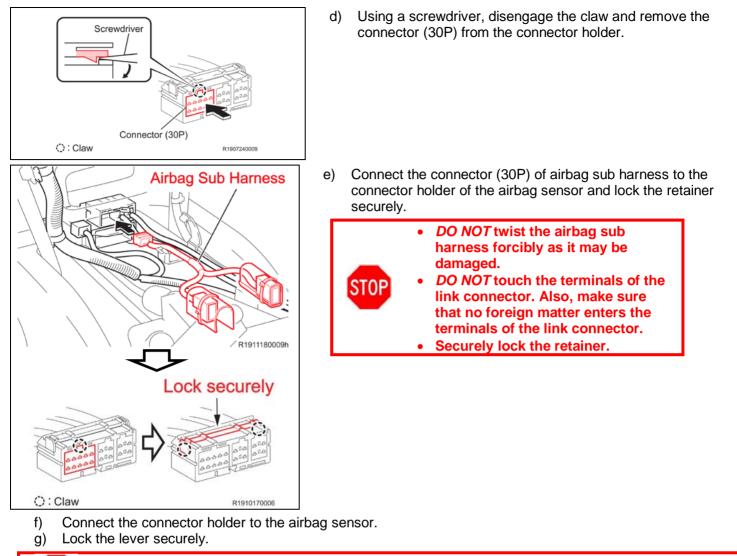


c) Using a screwdriver, disengage the 2 claws to release the retainer from the connector holder of the airbag sensor.

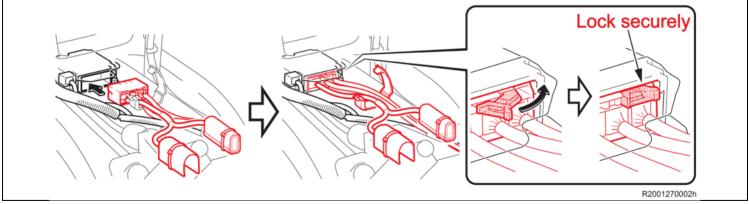
NOTE:

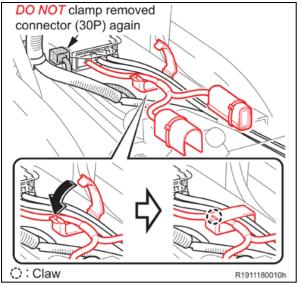
DO NOT remove the retainer from the connector holder completely. If removed, temporarily install it to the connector holder.









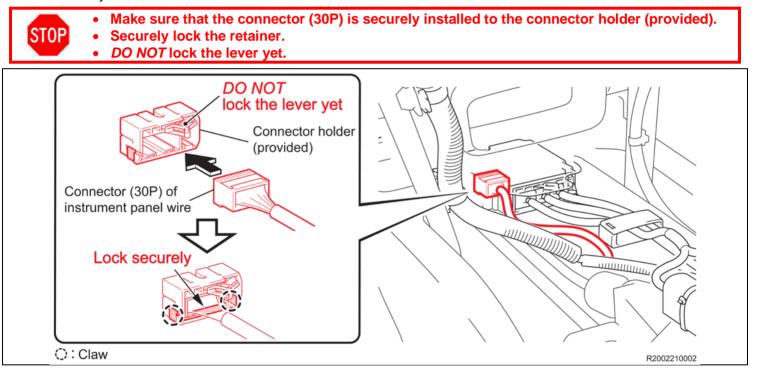


h) Install the airbag sub harness into the clamp.
 NOTE:
 NOT clamp removed connector (30P) of the

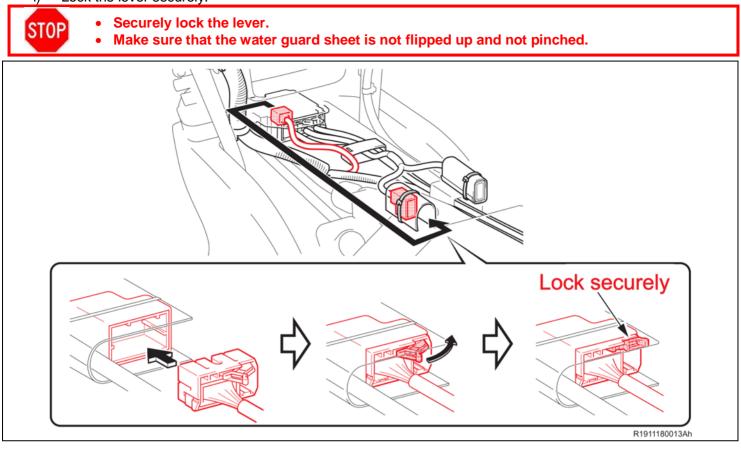
DO NOT clamp removed connector (30P) of the instrument panel wire again.

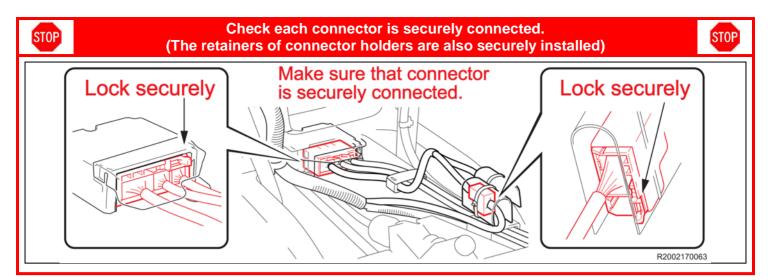
i) Engage the clamp.

j) Install the connector (30P) of the instrument panel wire to the provided connector holder and lock the retainer securely.

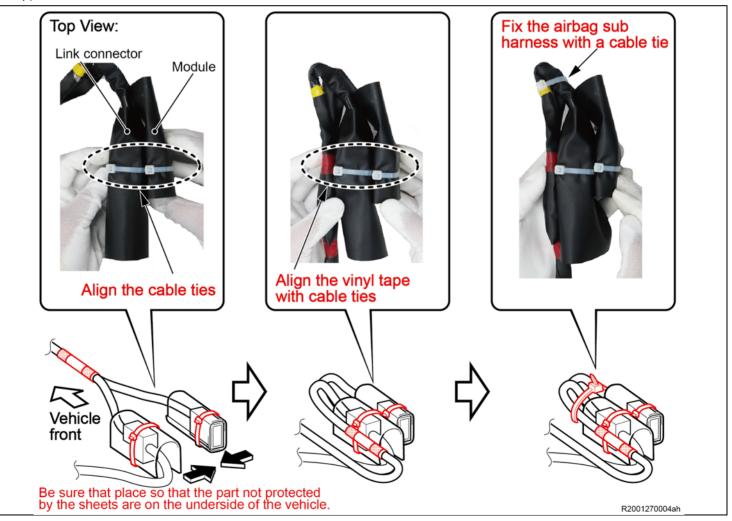


- k) Flip up the water guard sheet of the link connector and connect the connector (30P) with connector holder (provided).
- I) Lock the lever securely.

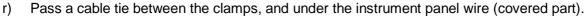


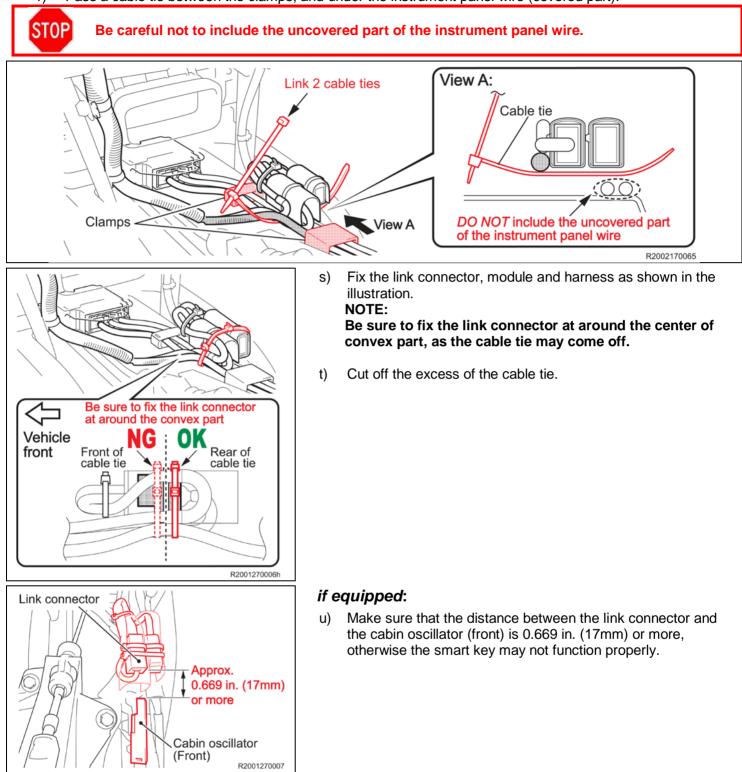


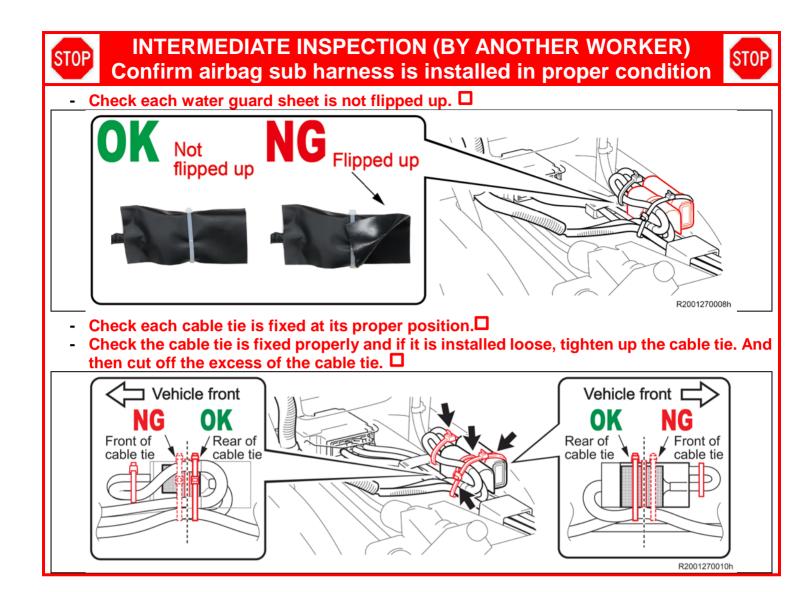
- m) Align the cable tie of the link connector and the cable tie of the module.
 NOTE:
 Be sure that place so that the part not protected by the water guard sheets are on the underside of
- the vehicle.n) Align the vinyl tape fixing the smallest water guard sheet (link connector and module side) with the cable ties.
- o) Using a cable tie, fix the airbag sub harness as shown in the illustration.
- p) Cut off the excess of the cable tie.



q) Link 2 cable ties.







TRW Wire Harness Repair	 6. Post Repair Quality Checksheet a. Login to the website below to complete the Post Repair Quality Checksheet
Dealer Code:	URL: <u>https://toyota-trw.imagespm.info/</u>
Password:	Login Credentials
LOGIN	Username: Dealer code Password (1 st time login): XXXXX
	If you have any issues with the website contact Quality_Compliance@toyota.com for assistance.
Enter technician info.	b. Enter the following information into the site
Technician Name: SPIN ID:	Technician Name Spin ID Select your current Toyota certification
Certification Level: Toyota Expert (Electrical)	
Toyota Expert (Electrical)	
	nite Appleted wire harness installation as instructed on the website. MUST MATCH the angle of image shown below
	Example picture

Complete re-installation of vehicle.

e. Record the warranty authorization number and provide it to the warranty administrator for claim filing.

Warranty Authorization Number:

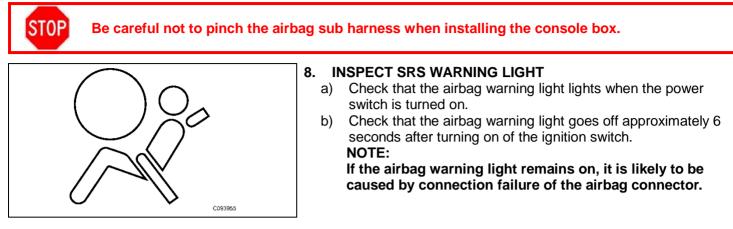
DONE

7. RESTORE THE VEHICLE

Click the link below to access TIS for instructions

SUPPLEMENTAL RESTRAINT SYSTEMS: CENTER AIRBAG SENSOR ASSEMBLY: INSTALLATION

(Doc ID: RM000000UWS06WX)



◄ VERIFY REPAIR QUALITY ►

- Confirm there is no SRS light on
- Confirm center console has been properly installed and that no large gaps in trim are present
- Confirm you have completed the Repair Quality Checksheet and that the image you uploaded was correct.

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

VII. APPENDIX

19TA01 19 т Α 01 Year Campaign Vehicle Make Field Action Category and Phase Field Action Sequence is Launched A = Safety Recall Remedy $01 = 1^{st}$ Field Action of the year B = Safety Recall Interim $02 = 2^{nd}$ Field Action of the year 19 = 2019C = Special Service Campaign $03 = 3^{rd}$ Field Action of the year 20 = 2020D = Limited Service Campaign 21 = 2021 T = Toyota E = Customer Support Program 22 = 2022 L = Lexus (The sequence is unique for each F = Emissions Recall 23 = 2023Field Action category) Etc... (May use other characters in (May use other characters in unique unique cases) cases)

A. CAMPAIGN DESIGNATION DECODER

Examples:

19TA01 = Launched in 2019, Toyota, Safety Recall Remedy Phase, 1st Safety Recall Launched in 2019 20TC02 = Launched in 2020, Special Service Campaign, 2nd Special Service Campaign Launched in 2020 21TE05 = Launched in 2021, Customer Support Program, 5th Customer Support Program Launched in 2021