



GENUINE PARTS

INSTALLATION INSTRUCTIONS

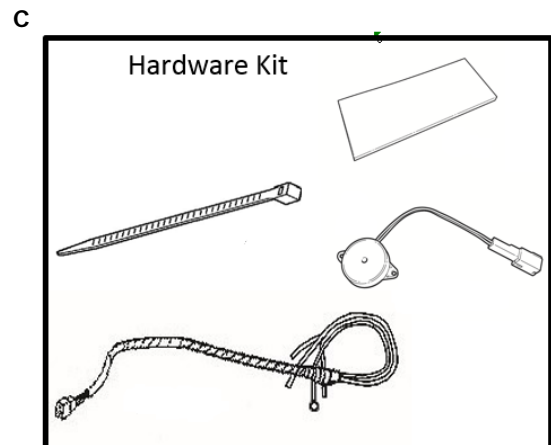
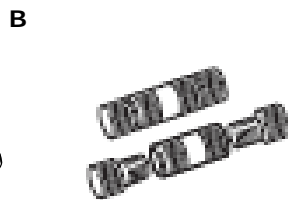
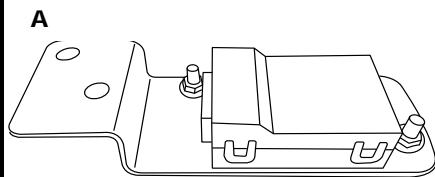
DESCRIPTION: Impact Sensor Gen II Kit

APPLICATION: Q50

PART NUMBER(S) T99M2 5CV0A

REQUIRED FOR T99F6 4RA0A, Accessory Service Connector - not included in kit above

KIT CONTENTS:



E



Important: Read Before Installation!

Dealer Installation Recommended.

⚠ WARNING

To avoid serious personal injury or property damage, obtain the Installation Instructions before attempting to install this accessory. The Installation Instructions provide the necessary procedures for a safe installation.

CUSTOMER INTERNET DOWNLOAD INSTRUCTIONS: Customers can obtain Installation Instructions for Infiniti or Nissan vehicles at www.Infiniti-Techinfo.com or www.Nissan-Techinfo.com respectively. From the home page, select Accessory Instructions. Select your Model, Model Year, and Accessory Type or search for your Model, and or Model Year, and or Accessory Type including Keyword or Part Number, then locate the Instructions for your accessory.

DEALER ASIST DOWNLOAD INSTRUCTIONS: Dealership technicians can locate the Installation Instructions for this accessory by scrolling to and select 'Acc. Install Instructions' tab. Always download and use latest version of the Installation Instructions.

Installation Instructions Replacement Template 999V2 AHW00 Rev. 01/01/12

ADDITIONAL SERVICE PARTS NOT INCLUDED IN KIT ABOVE :

Item	Qty.	Part Description	Service Part Number
AAA	1	Accessory Service Connector	T99F6 4RA0A



AAA

PART NUMBER(S) T99M2 5CV0A

**REQUIRED FOR
INSTALLATION:** T99F6 4RA0A(Accessory Service Connector) - Not Included in Kit

KIT CONTENTS:

Item	Qty.	Part Description	Service Part Number
A	1	Impact Sensor Sensor Assembly	No Service Part#
B	5	Posi-Tap	
C	1	Hardware Kit	
	1	Impact Sensor Harness	
	8	Cable Tie	
	8	Urethane Foam Tape	
	1	Buzzer	
D	1	Quick Reference Guide	
E	1	Installation Instruction Replacement Template	999V2 AW000

TOOLS REQUIRED:

- Trim Removal Tool, Nylon
- Short 1/4" Ratchet Drive
- Standard #2 Phillips Screwdriver
- Short #2 Phillips Screwdriver
- 1/4" Drive 10mm Socket
- 1/4" Drive 13mm Socket
- 10 mm Ratcheting Wrench

INSTALLATION CAUTIONS:

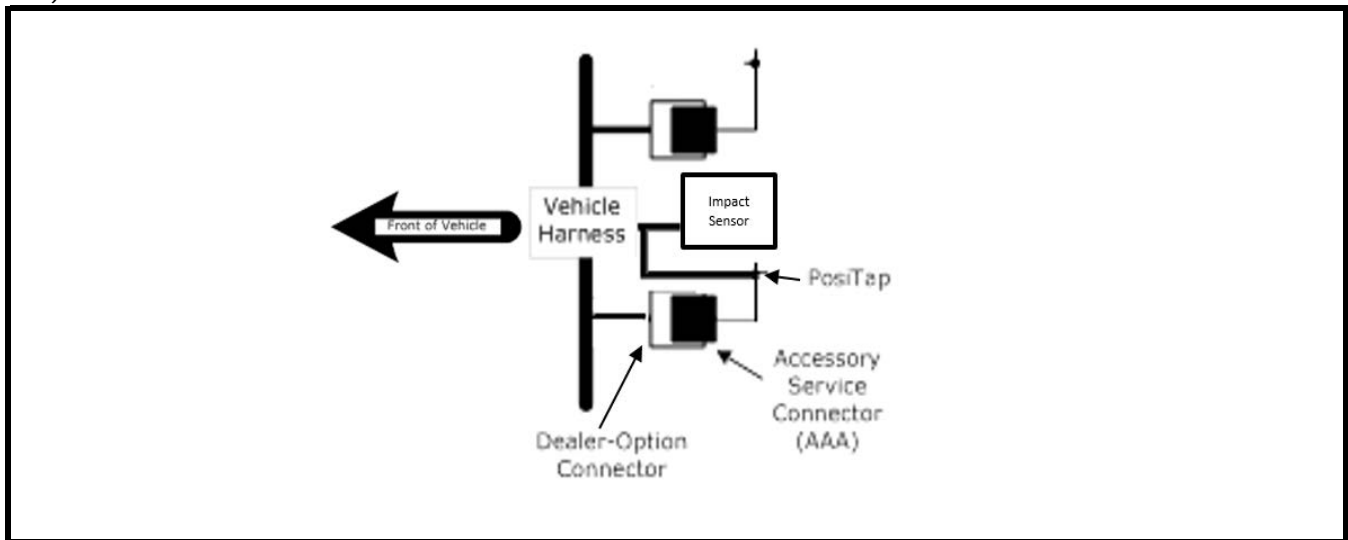


CAUTION

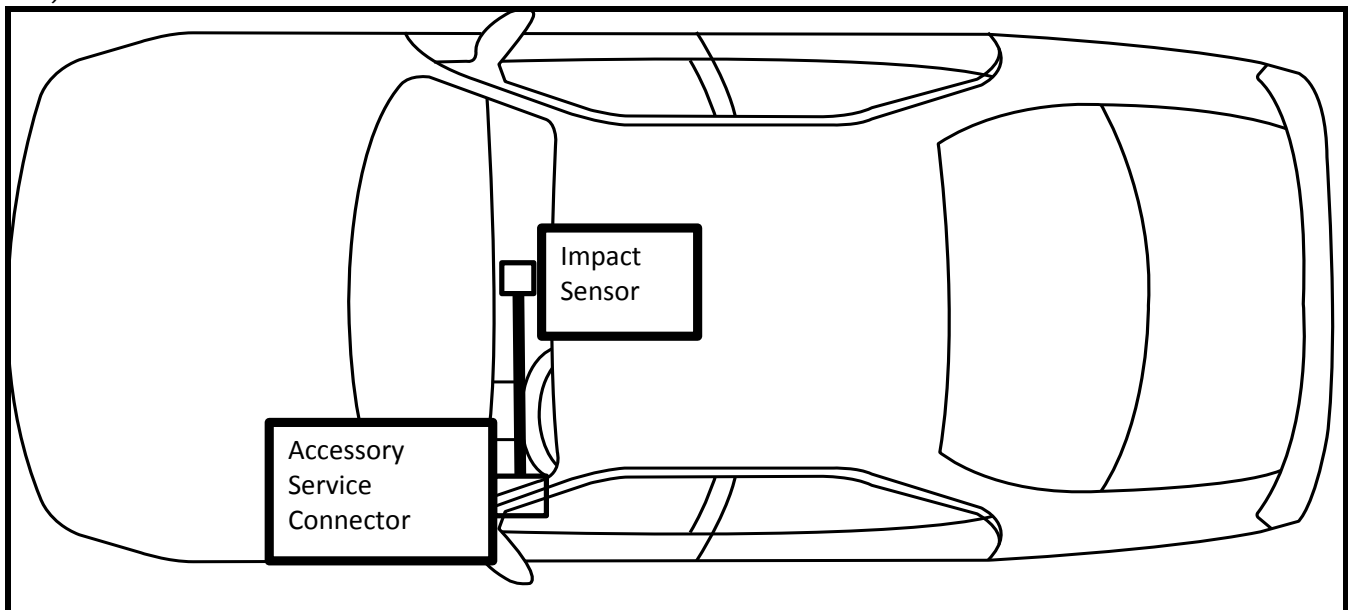
- **Dealer installation recommended. Instructions may refer to Service Manual.**
- **Please read this instruction carefully before installing this product for correct installation.**
- **Please DO NOT use or install the part in ways other than what is described.**
- **Always use floor, seat and steering wheel protection.**
- **Parts utilizing adhesion as method of attachment are to be installed at surface temperature of 15-38° C**
- **Posi-Tap™ instructions must be specifically followed as described in Appendix A.**
- **Apply masking tape as needed to protect areas that may be scratched or damaged by tools.**
- **Always remove vehicle parts in the sequence directed. Improper procedure can damage parts.**
- **Take care not to scratch or damage any component during the removal or re-installation process.**
- **Trim pieces found to have witness marks or broken clips ARE NOT to be reinstalled.**
- **Store removed parts in a safe manner.**
- **If a problem occurs during installation, please contact Nissan dealer where you purchased the product.**

SECTION 1 - Overview

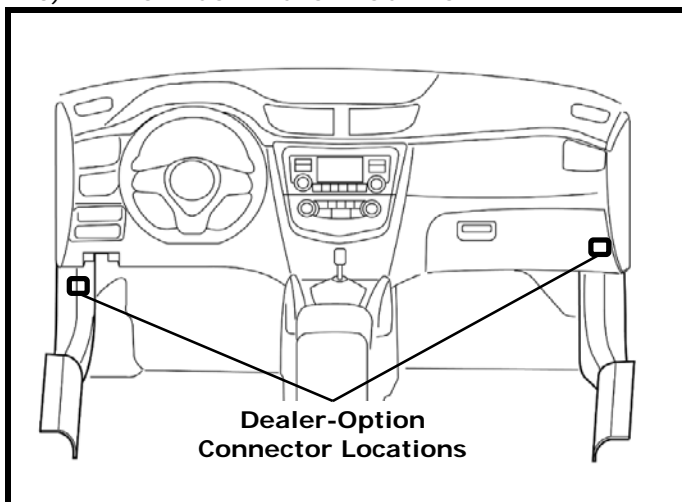
1.1) SYSTEM



1.2) VEHICLE



1.3) D-OPT CONNECTOR LOCATION

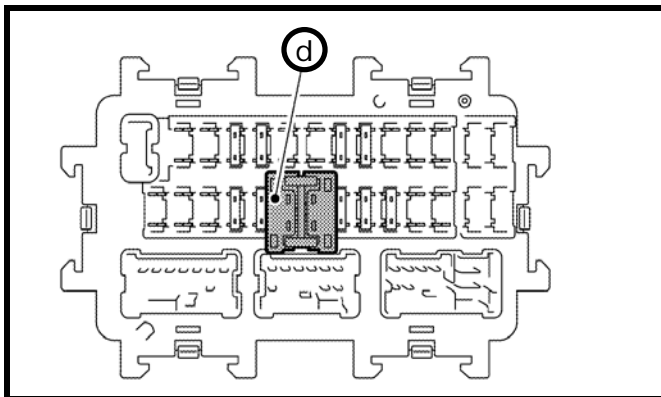




CAUTION

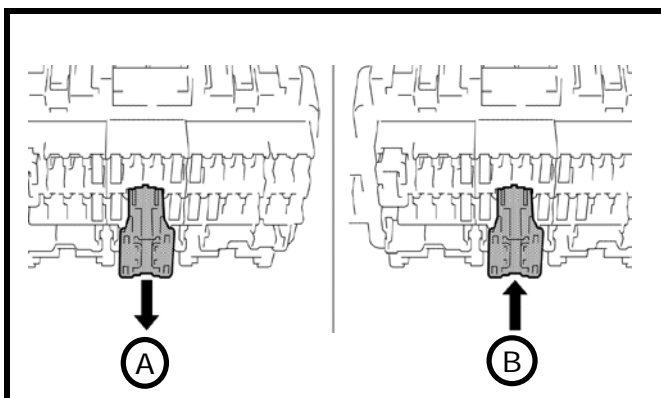
• Always confirm the ignition is in the "OFF" position before changing the E.S.S. position.

• If E.S.S. is not in Customer Mode, there will be a loss of normal vehicle operation, preventing accessory function check.



2.1) Check Extended Storage Switch Position

- a) Put shift lever in "P" position for A/T and CVT or "1st" for M/T .
- b) Apply park brake.
- c) Place ignition in "OFF" mode.
- d) Locate Extended Storage Switch in cabin fuse block as shown.
- e) Confirm Extended Storage Switch is in "Customer" (In/Engaged) position.
- f) If ESS is not In/Engaged, then proceed to step 2.2 .



2.2) Changing ESS Position

- a) To disengage Customer Mode, pull out in **A** direction as shown.
- b) To engage Customer Mode, press in **B** direction as shown.

Condition	Switch Position	Note
Vehicle is delivered to the dealer	Transit (OUT)	
Vehicle is being stored at the dealer	Transit (OUT)	
Vehicle is delivered to customer	Customer (IN)	

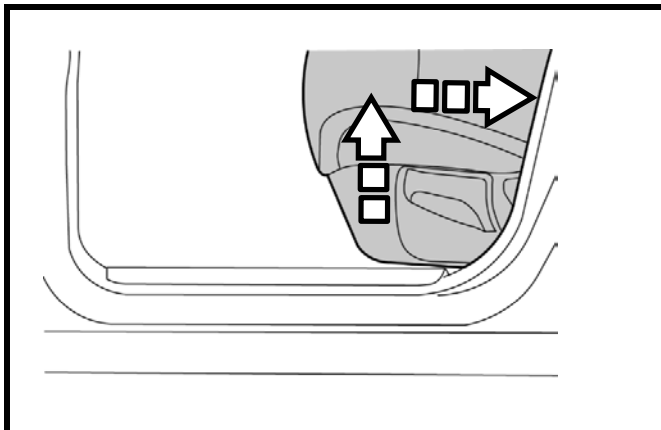
2.3) Record Customer Presets

- a) Place ignition in "ON" mode.
- b) Record the customer radio presets and other presets as required.

Preset	1	2	3	4	5	6	7	8	9	10

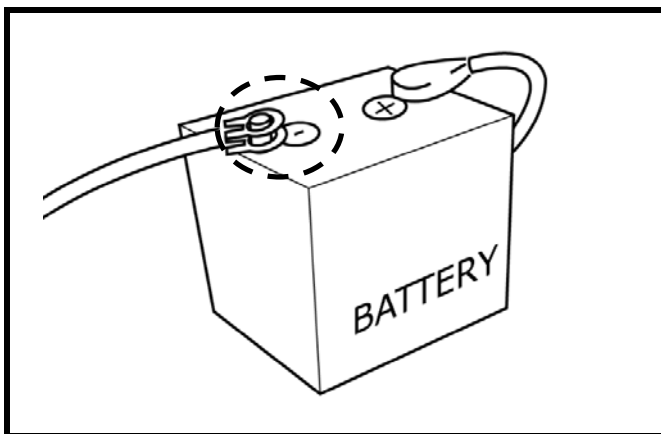
- c) Place ignition in "OFF" mode.

SECTION 2 - Vehicle Preparation



2.4) Move seats.

- a) Move both front seats to full upward and rearward position.



2.5) Disconnect battery terminal

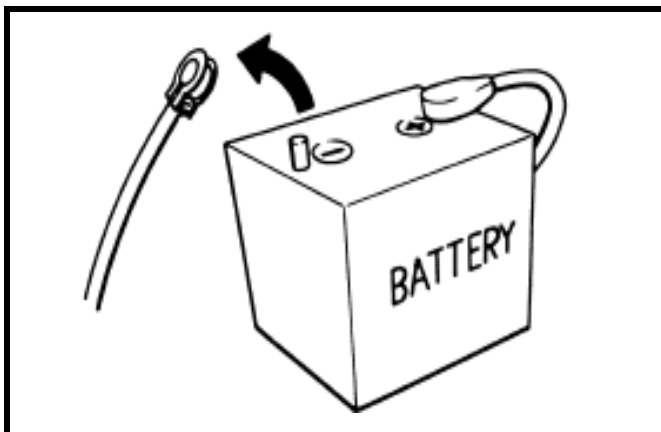
- a) Locate negative battery terminal.
- b) Loosen nut with 10mm socket.

Battery Terminal Nut



CAUTION

- Allow 3 min after key off with doors closed for vehicle power to time out.

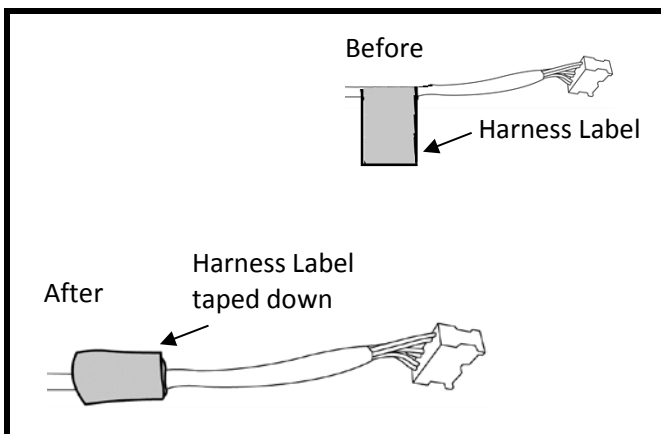


2.6) Disconnect battery terminal

- a) Lift negative battery terminal off stud.
- b) Isolate negative battery terminal.

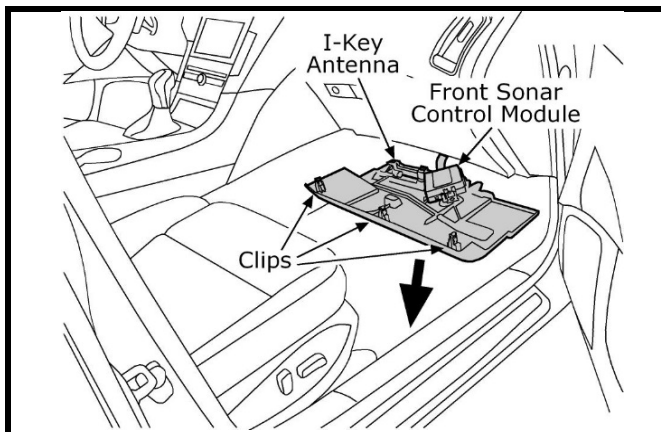
CAUTION

- Allow 3 min after negative terminal disconnect before separating any electrical connectors.



2.7) To prevent squeak and rattle, wrap labels (buzzer and harness label) around harness and

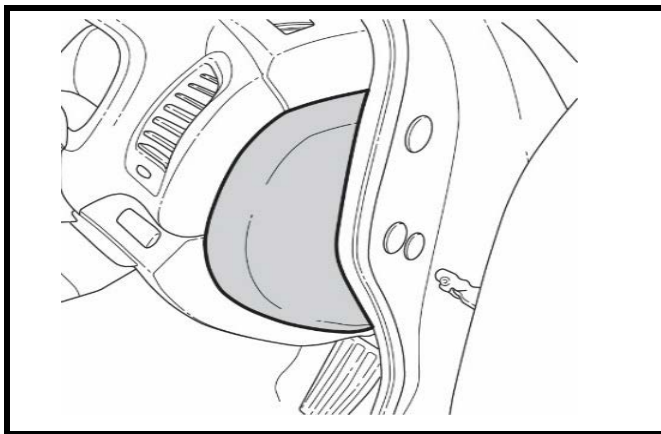
SECTION 3 - Trim Removal



3.1) Remove Glove Box

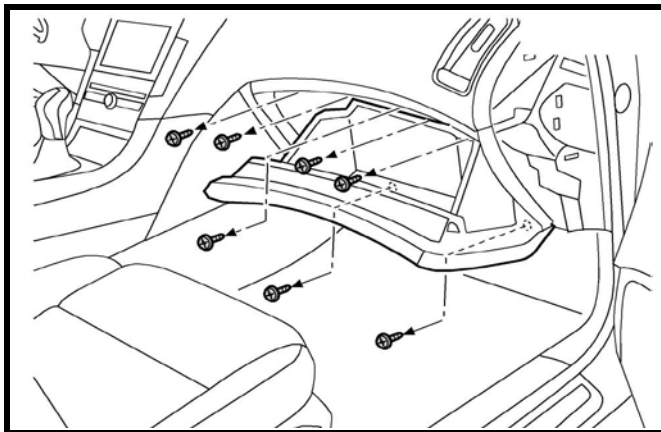
- a) Carefully pry down the Cover Instrument Lower RH from underneath the glovebox.

NOTE: DO NOT UNPLUG THE CONNECTORS FROM THE KEY FOB SENSOR OR THE FRONT SONAR CONTROLLER. BOTH UNITS MUST BE REMOVED WITHOUT BEING DISCONNECTED FROM THE HARNESS.



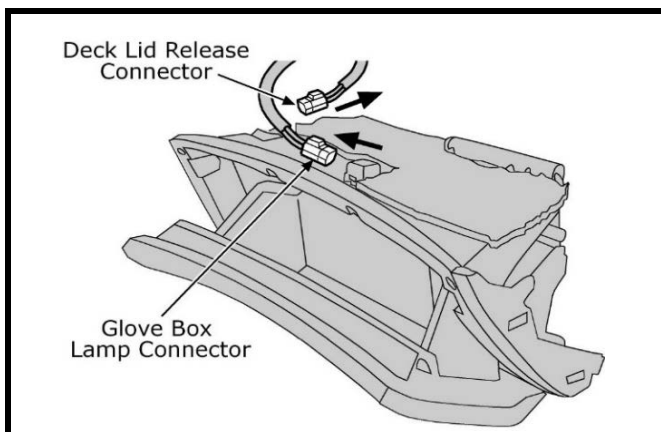
3.2) Remove Instrument Side Mask RH

- a) Use trim stick to remove side glove box trim.



3.3) Remove Glove Box.

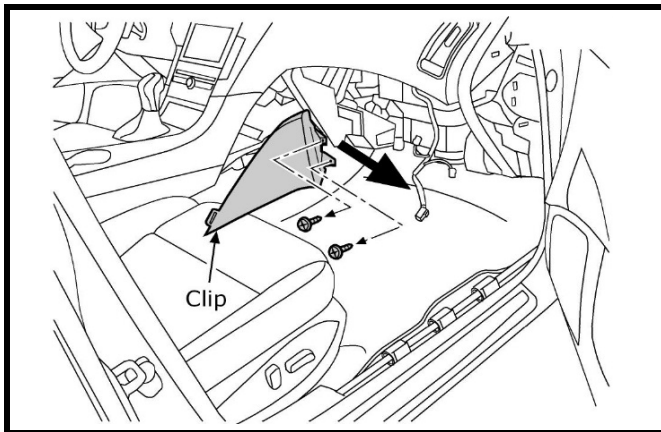
- a) Open the glovebox door. Remove two (2) phillips head screws from the underside of the glovebox. Remove four (4) phillips head screws from the top edge of the glovebox and one (1) phillip head screw from the inside center of the glovebox compartment.



3.4) Remove Glove Box

- a) Carefully pull out the glovebox assembly. Unplug and remove the the glovebox lamp and deck lid release connectors. Fully remove the glovebox assembly and set aside.

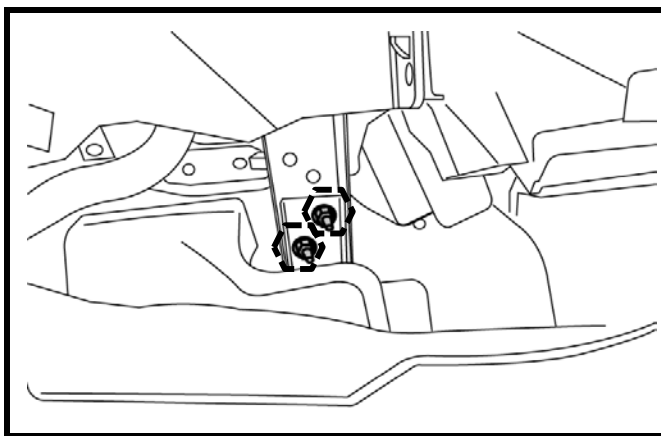
SECTION 3 - Trim Removal



3.5) Remove Inner Passenger Side Trim.

- a) Remove two (2) phillips head screws from the front edge of the passenger side inner trim panel. Carefully pry out the center trim panel from the passenger side of the center stack. Remove clip at front, near carpet just below the duct outlet carefully.

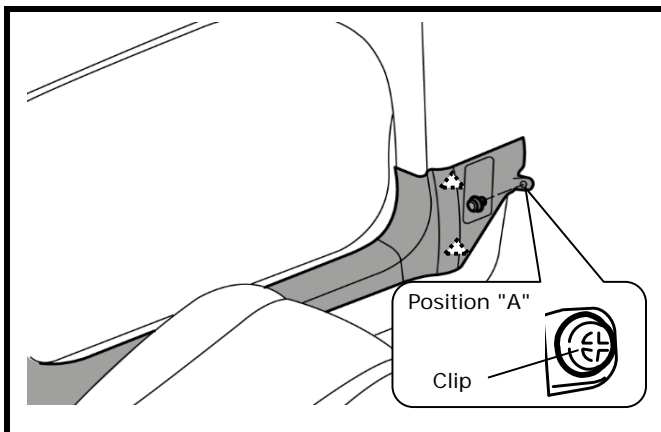
NOTE: Be careful not to damage any clips on the panel during removal.



3.6) Locate Passenger Sill

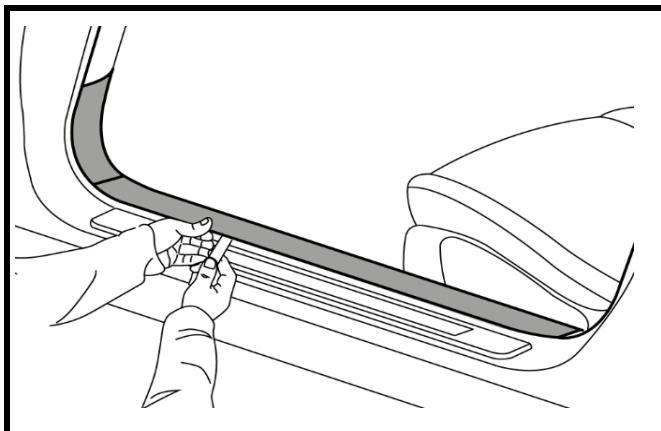
- a) Pull back carpet to expose sill.
- b) Using 10 mm socket, remove the shown nuts.

Nuts



3.7) Dashboard Side Lower Panel Removal

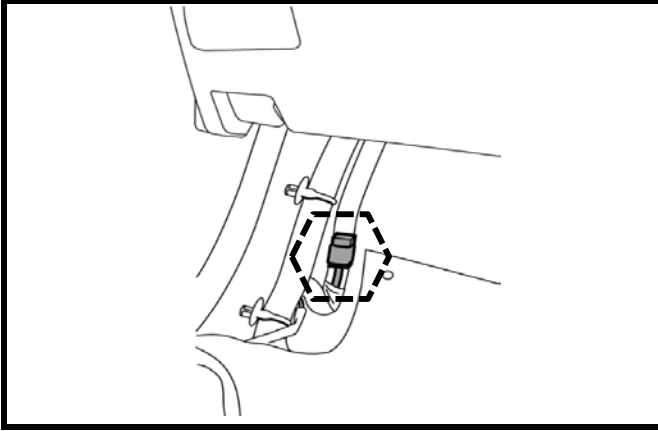
- a) Remove clip at "Position A" by unscrewing by hand.
- b) Loosen dashboard side lower panel LH (2) by pulling horizontally to disconnect at clips as shown in Fig. 5.



3.8) Remove Inner Kick Plate

Remove Inner Kick Plate FR LH by pulling straight up to disconnect clips

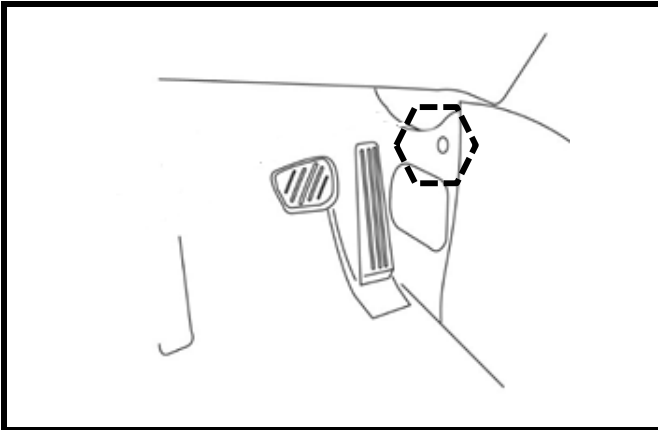
SECTION 3 - Trim Removal



3.9) Locate LH D-Opt Connector

- a) Locate driver side D-Opt connector as shown

D-Opt Connector



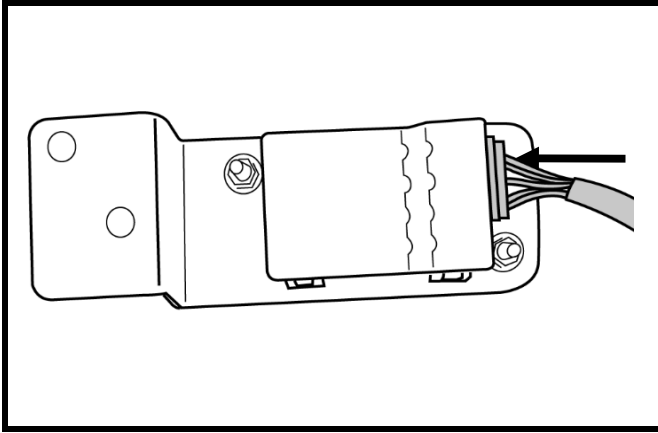
3.10) Free Driver Side Carpet

- a) Remove DR Side capret clip next to acceleration pedal.

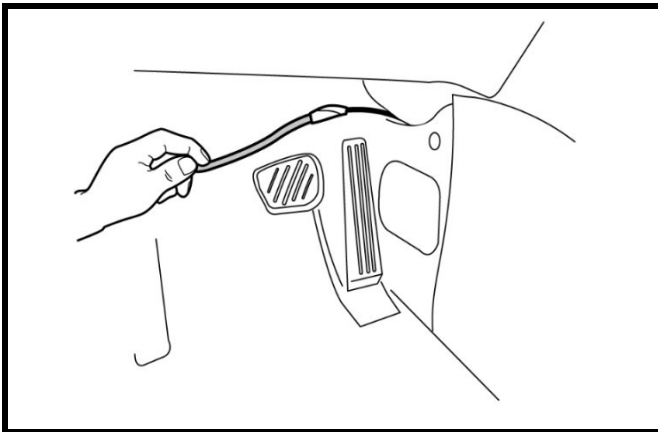
Carpet Clip



SECTION 4 - Harness Routing

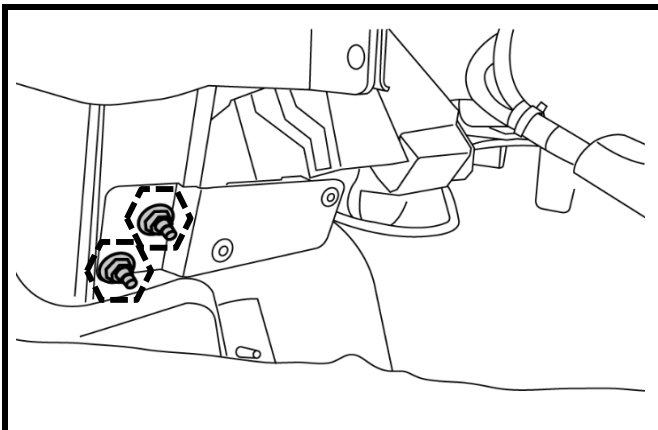


4.1) Connect Impact Sensor Harness to Impact Sensor Module.



4.2) Route Impact Sensor Harness

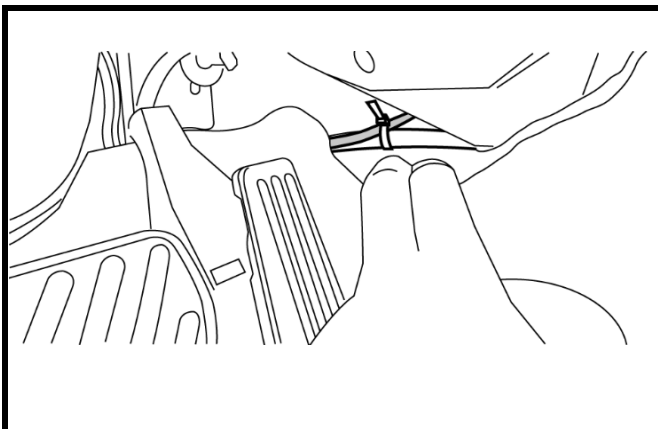
- a) Before mounting the bracket, route Harness from passenger side towards driver's side



4.3) Route Impact Sensor Harness

- a) Secure Impact Sensor Assembly to vehicle bracket with previously removed nuts. Torque down with 8-12 Nm of force

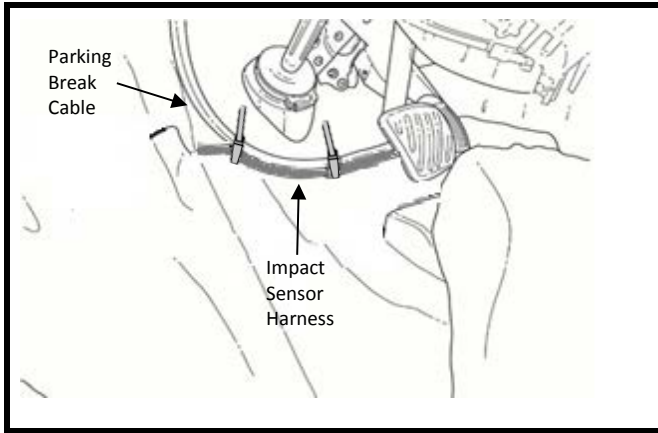
Nuts



4.4) Route Impact Sensor Harness

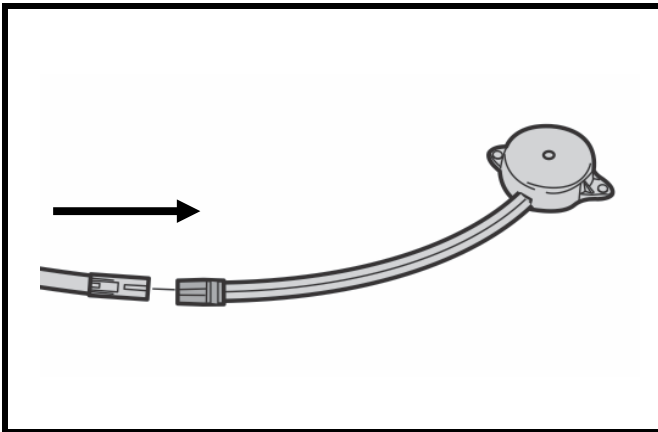
- a) On driver side footwell, secure impact sensor harness to parking brake cable using zip tie, and continue routing towards service connector.

SECTION 4 - Harness Routing



4.5) Route Harness

- a) Route Harness towards service connector along the parking break cable. Add zip ties to secure accessory harness to parking break cable.



4.6) Connect Buzzer to Impact Sensor Harness.

! CAUTION

The Accessory Service Connector (AAA) is for use only with Genuine Nissan or Nissan-Approved accessories. Nissan/Infiniti is not liable for loss or damage due to improper installation or installation of non-Genuine or non-Approved accessories.

T99F6 4RA0A, Accessory Service Connector - not included in kit above

**Accessory Service
Connector**



AAA

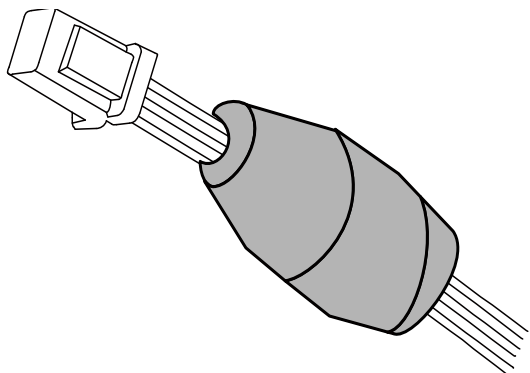
5.1) Connect ASC (AAA) to Impact Sensor Module

- a) For detailed directions, see Appendix A - Posi-Tap Procedure.
- b) Additional circuit information is in Appendix B - Mechanization Drawing.

5.2) Connect ASC (AAA) to Impact Sensor

- a) Using a Posi-Tap, connect the BLACK Impact Sensor lead wire to the "GND" (BLACK wire) of the ASC (AAA) as shown.
- b) Using a Posi-Tap, connect the Red Impact Sensor lead wire to the "BAT" (RED wire) of the ASC (AAA) as shown.
- c) Using a Posi-Tap, connect the Pink Impact Sensor lead wire to the "BAT SAVER" (PINK) of the ASC (AAA) as shown.
- d) Using a Posi-Tap, connect the GREEN Impact Sensor lead wire to the "FR DOOR SW" (LT GREEN wire) of the ASC (AAA) as shown.
- e) Using a Posi-Tap, connect the WHITE Impact Sensor lead wire to the "IGN" (WHITE wire) of the ASC (AAA) as shown.

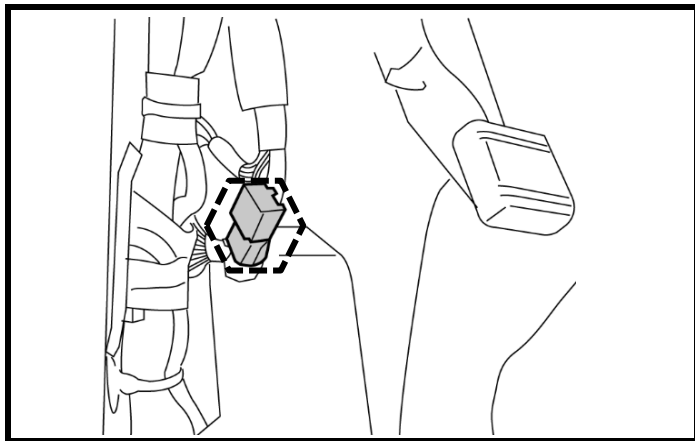
Posi Tap



5.3) Connect ASC (AAA) to Impact Sensor

- a) Once the ASC is prepared as described in Appendix A, Impact Sensor harness with ASC attached should look like this.

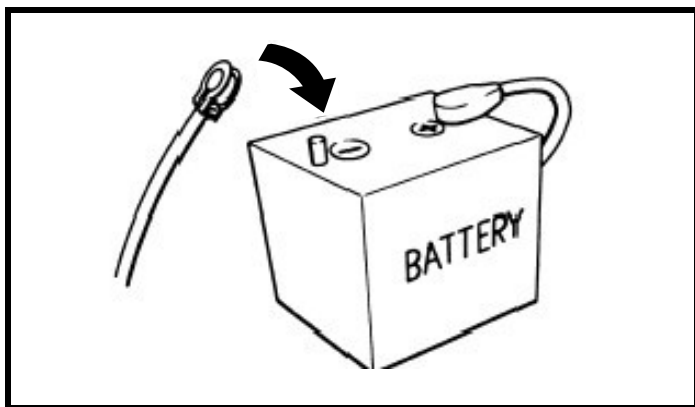
SECTION 5 - Accessory Service Connector



5.4) Connect ASC (AAA) to D-Opt Connector

- a) Secure bundle down using zip ties and foam tape once connected to D-Opt Connector.

D-Opt Connector



5.5) Electrical function check

- a) Re-connect negative battery cable.
- b) Turn IGNITION ON.
- c) Ensure vehicle is in well lit area.

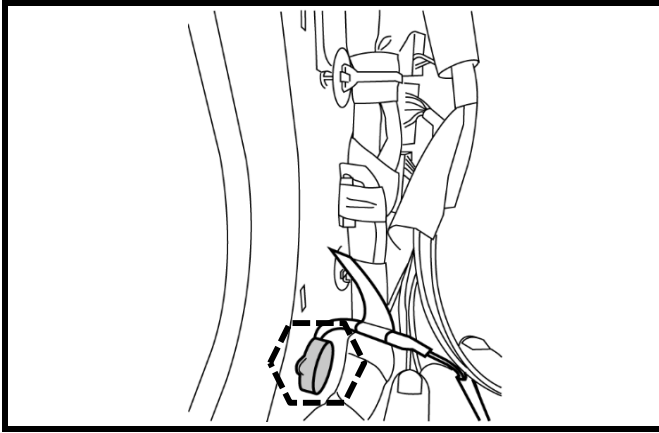
5.6) Electrical function check

- a) Sit inside the vehicle driver seat with all doors closed.
- b) Turn IGN ON (NOT ACC)
- c) Turn IGN OFF
- d) OPEN driver front door.
- e) Close Driver front door (Remain inside the vehicle)
- f) Lock the vehicle using the key fob.
- g) Wait 1 Minute.
- h) Lightly tap the module and confirm the horn chirps. (increase the impact if horn does not sound)
- i) Confirm that the vehicle alarm is triggered.
- j) Unlock the vehicle to deactivate alarm.
- k) Confirm that the vehicle alarm is triggered.
- l) Turn IGN ON and confirm the buzzer twice.
- m) Turn IGN OFF.



CAUTION

When diagnosing electrical system problems, first disconnect the accessory connectors and note effect on vehicle system. Continue the investigation with the accessory connectors disconnected. Reconnect when the investigation is complete.



6.1) Secure Buzzer to flat metal surface on Instrument Lower Panel LH

- a) Remove adhesive from back of buzzer and secure buzzer to the lower instrument panel.

Buzzer



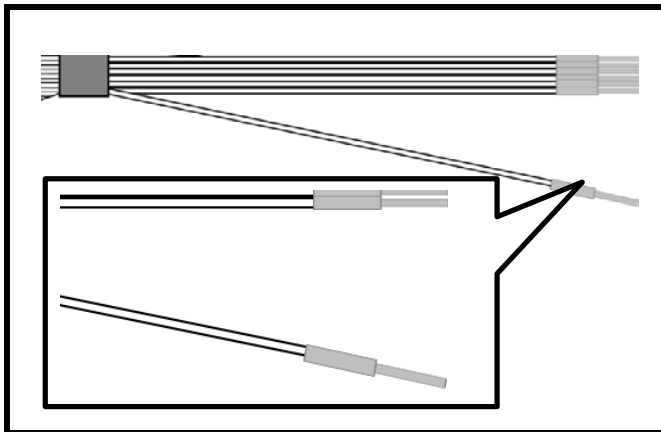
CAUTION

Take care not to scratch or damage any component during the removal or re-installation process. Trim pieces found to have witness marks or broken clips should be replaced with new parts.

6.2) Complete checklist:

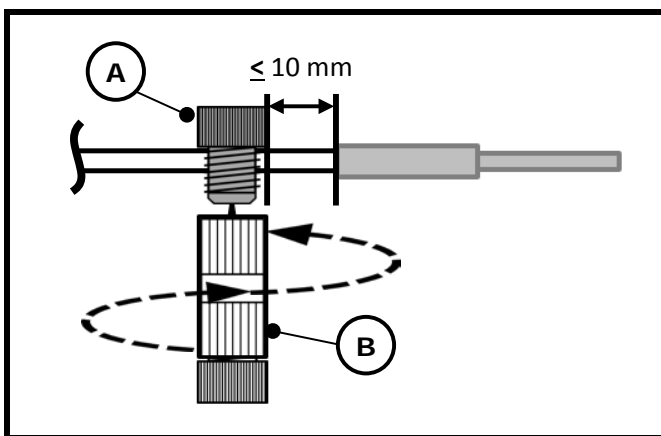
- ☐ Tighten battery terminal nut to 5.4 N-m.
- ☐ Verify re-installed trim parts for proper fit (no gap, waviness, etc.), particularly the door sill weather strip.
- ☐ Verify all windows and sunroof (if equipped), one touch operation and perform the reset procedure if necessary. Refer to the vehicle Service Manual for more details.
- ☐ Re-program radio presets and other vehicle settings to the recorded settings if necessary.
- ☐ If this vehicle will be returned to a dealer lot or showroom for an extended period of time, be sure the extended storage switch is placed in the Transit position.
- ☐ Remove all tools, templates, and other debris from interior of vehicle.
- ☐ Verify vehicle headliner, seat, steering wheel, center console, carpet, etc. are not soiled.
- ☐ Verify interior and exterior are not damaged.

APPENDIX A - Posi-Tap Procedure



A.1) Installing Posi-Tap™ on Accessory Service Connector (AAA)

- a) Identify and confirm ASC wire to be tapped. Check color as well as connector location.
- b) Separate wire from rest of bundle.



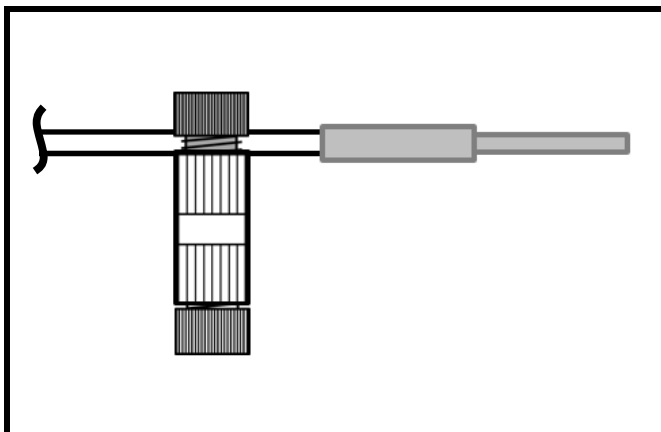
A.2) Installing Posi-Tap™ on ASC (AAA)

- a) Remove pierce cap (A) gray side from tap
- b) Slide cap around single wire to be tapped
- c) Position cap ≤ 10 mm away from heat shrink end of connector
- d) Turn tap (B) clockwise until finger "tight". Then secure to cap (A) with another $\frac{1}{4}$ turn.



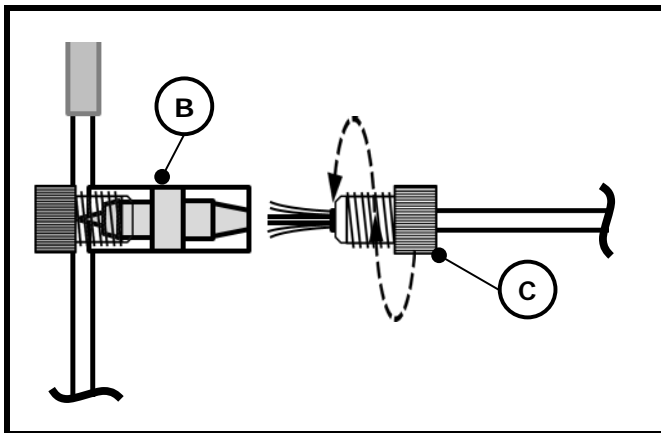
CAUTION

Do not overtighten Posi-Tap, it may damage wire



A.3) Installing Posi-Tap™ on ASC (AAA)

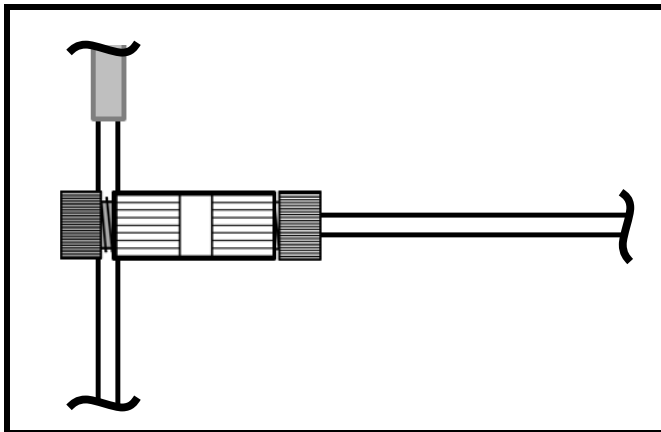
- a) Inspect Posi-Tap™ to ensure correct installation.
- b) Wire jacket should be crushed enough to maintain pressure.
- c) Confirm tap cap gap is straight and evenly spaced around perimeter.



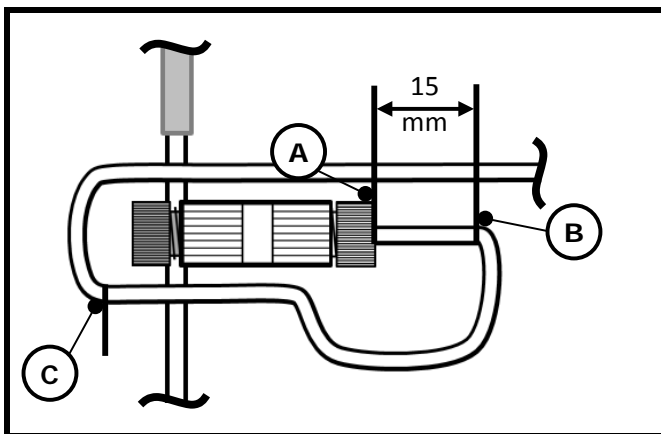
A.4) Installing Accessory wire into Posi-Tap™

- a) Remove tap bottom (C) red side from tap body (B).
- b) Remove the pre cut insulation from correct Accessory wire.
- c) Insert wire through tap bottom (C) opening.
- d) Fan out individual wire strands as shown.
- e) Insert wire into tap body until it bottoms
- f) Turn tap bottom (C) clockwise until finger "tight". Then secure to tap body (B) with another $\frac{1}{4}$ turn.

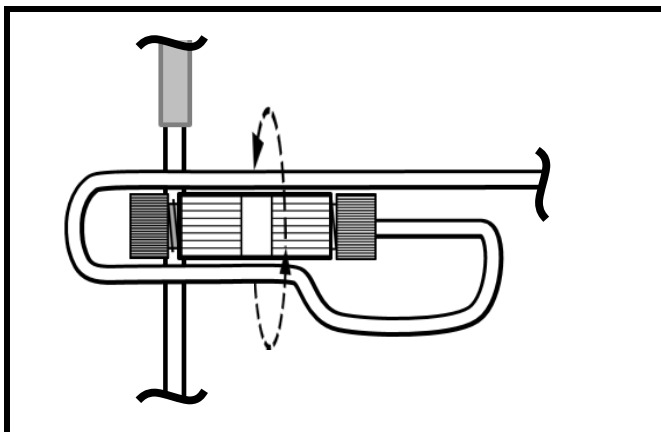
APPENDIX A - Posi-Tap Procedure



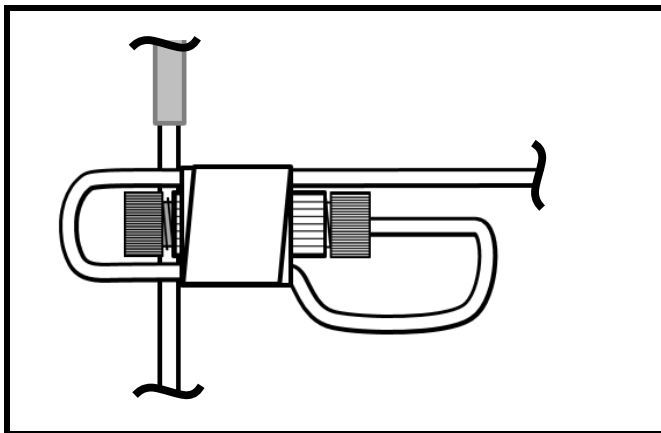
- A.5) Installing accessory wire into Posi-Tap™
- a) Confirm tap bottom gap is straight and evenly spaced around perimeter
 - b) Gently pull on wire to confirm secure connection.



- A.6) Accessory wire strain relief
- a) Measure ≥ 15 mm from point (A).
 - b) Gently form a loop at point (B) and bend back up towards Posi-Tap™ (bend radius ≥ 10 mm).
 - c) Gently form a loop at point (C) and bend back over top of Posi-Tap™ and down opposite side (bend radius ≥ 10 mm).

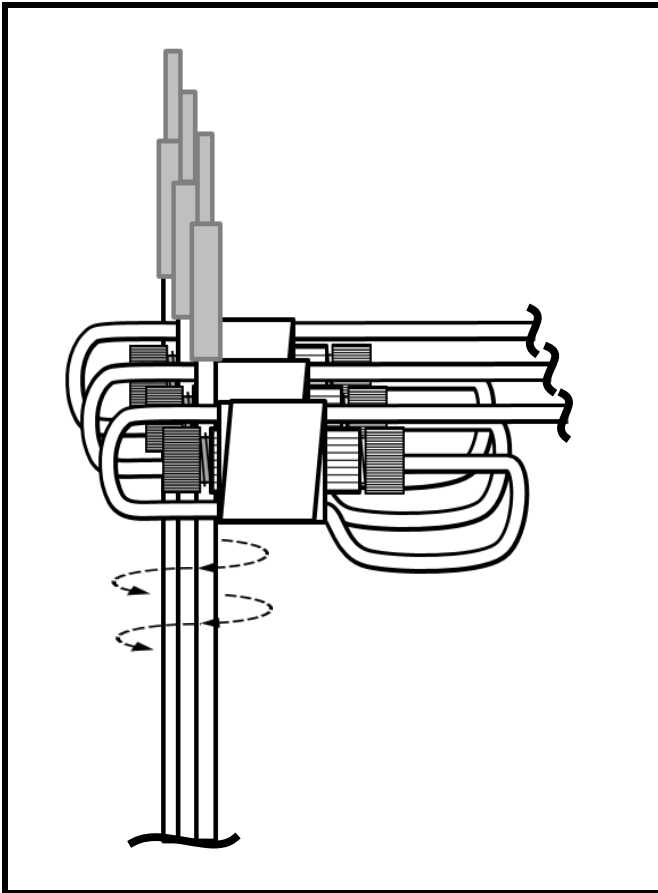


- A.7) Accessory wire strain relief
- a) Secure accessory wire strain relief to tap body with electrical tape (≥ 2 revolutions).

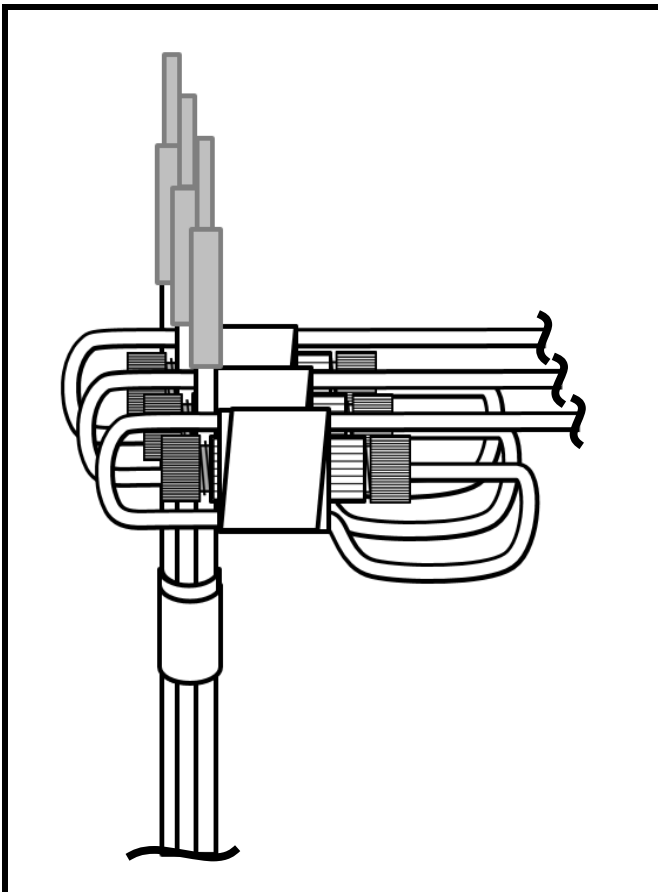


- A.8) Accessory wire strain relief
- a) Once accessory wire strain relief is taped to tap body, it should look as shown.

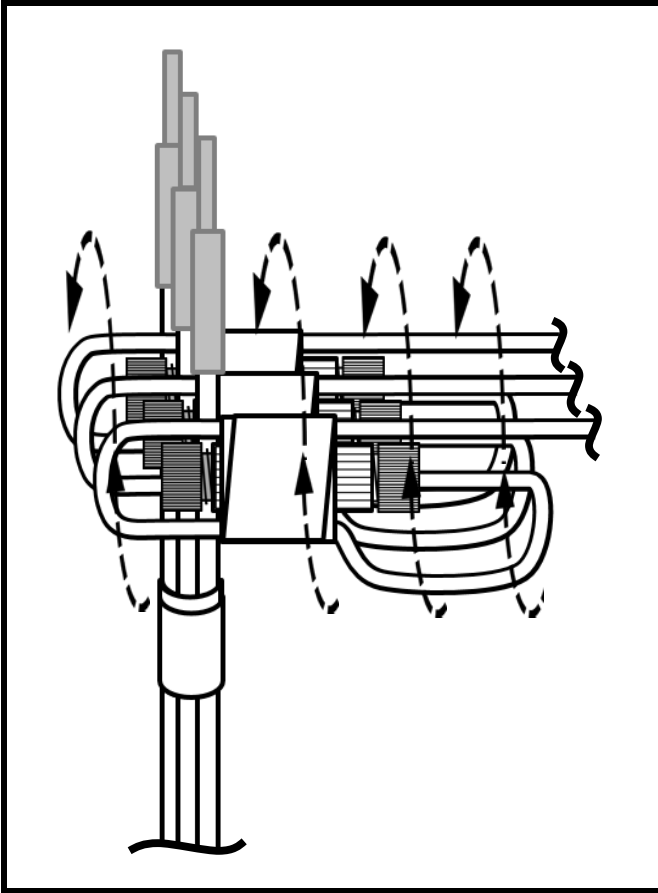
- A.9) Accessory wire strain relief
- a) Repeat steps A.1 - A.8 for all other wires requiring a Posi-Tap™.



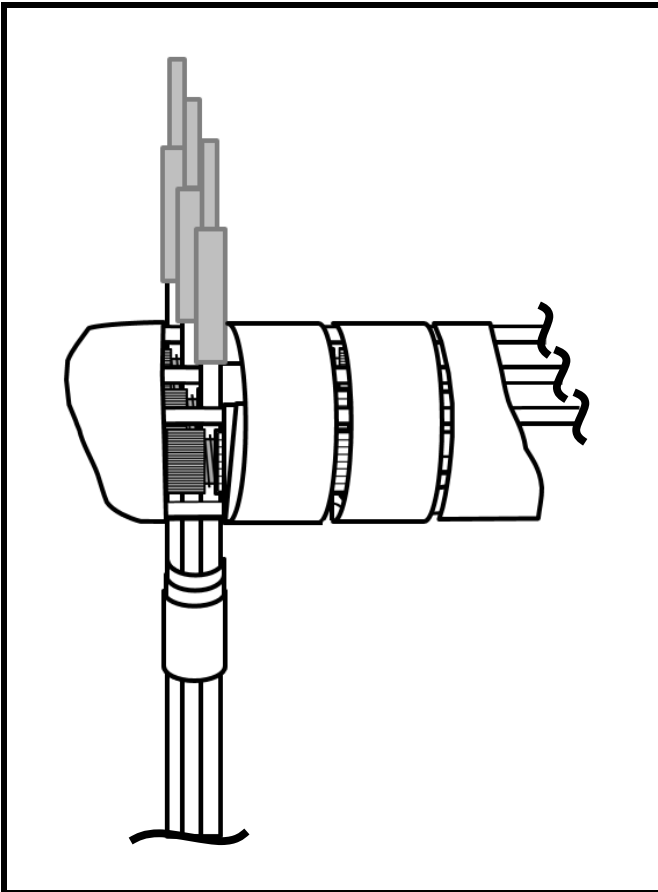
- A.10) Securing multiple Posi-Taps™ together
- a) Stack Posi-Taps™ in slightly staggered fashion as shown.
 - b) Secure tapped circuits together with electrical tape (≥ 2 revolutions).



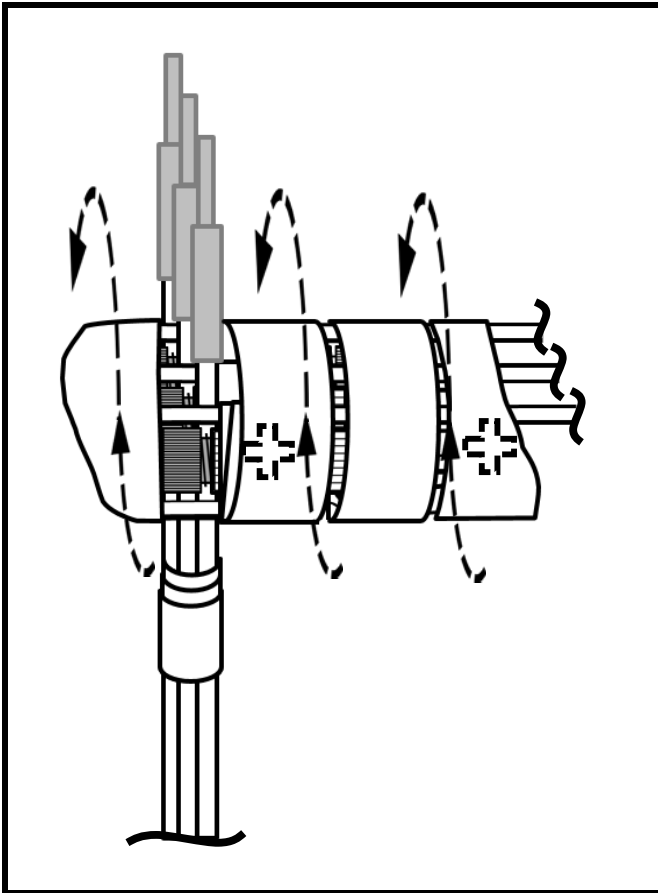
- A.11) Securing multiple Posi-Taps™ together
- a) Once tapped circuits are secured together with electrical tape they should look as shown.



- A.12) Securing multiple Posi-Taps™ together
a) Secure Posi-Taps™ together with electrical tape (≥ 4 revolutions).

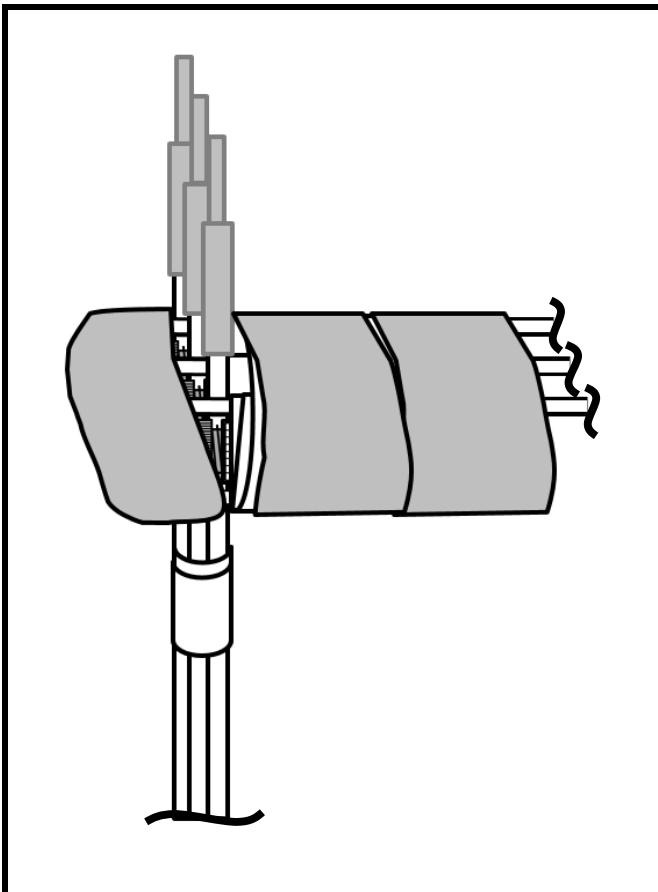


- A.13) Securing multiple Posi-Taps™ together
a) Once Posi-Taps™ are secured together with electrical tape they should look as shown.



- A.14) Securing multiple Posi-Taps™ together
- a) To prevent any possible noise or rattle issues, use two pieces of Foam Tape, Gray (H) to wrap pre-taped Posi-Taps™.

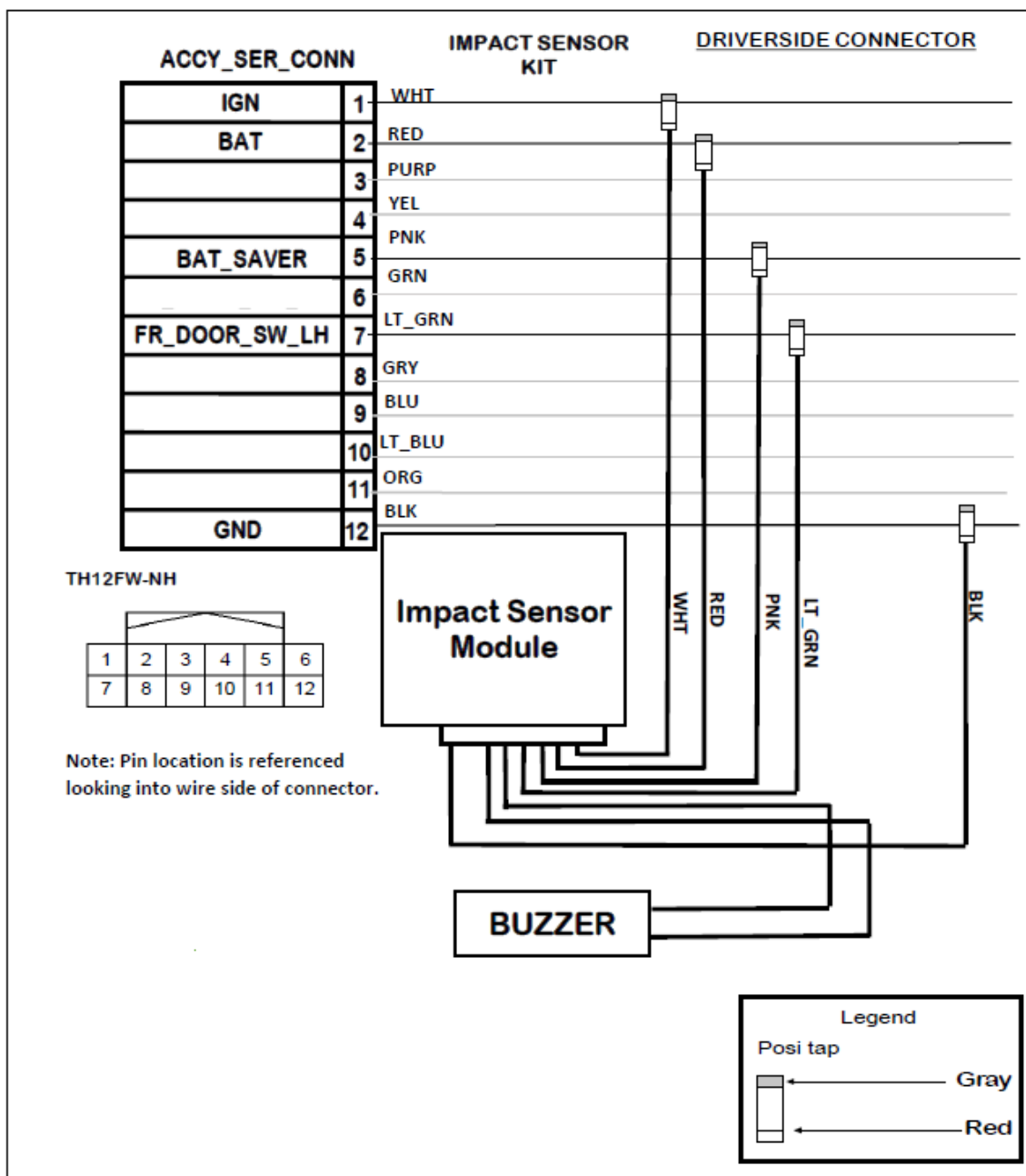
Foam Tape, Gray (H)



- A.15) Securing multiple Posi-Taps™ together
- a) Once wrapped with Foam Tape, Gray (H), taped Posi-Tap™ bundle should look as shown.

APPENDIX B - Mechanization Drawing

B.1)



CONNECTOR PN#		T99F6 4RA0A	LEGEND	
CONNECTOR NAME		ACCESSORY SERVICE CONNECTOR	<div>POSI-TAP</div> <div><div><div></div><div></div><div></div></div><div>GRAY - CIRCUIT TAP (PIERCE) SIDE</div><div>T99F6 4RA0A</div><div>RED - ACCESSORY (INSERT) SIDE</div></div>	
CONNECTOR COLOR		WHITE		
UNIT	<div><div><div><div></div><div></div><div></div></div><div>H.S.</div></div><div><div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div></div><div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div></div></div></div></div>		<div>Note: Pin location is referenced looking into harness side of connector with lock tab oriented as shown.</div>	

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