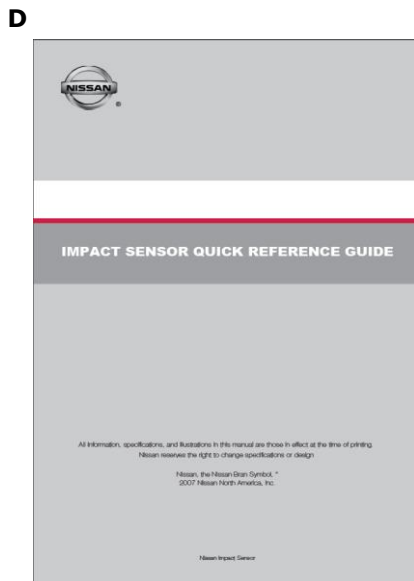
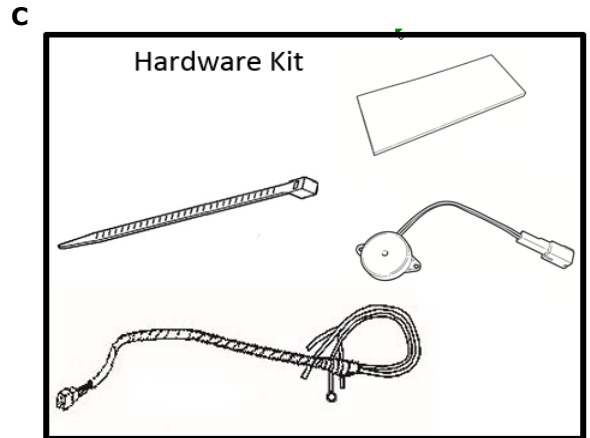
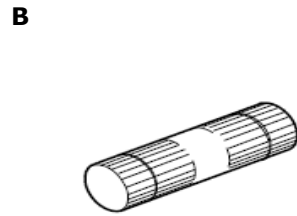
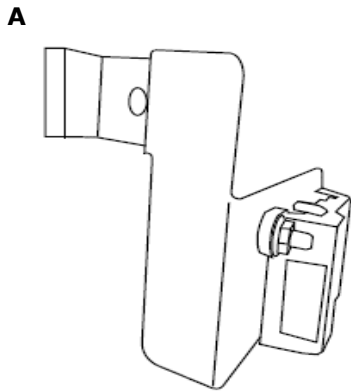




# GENUINE PARTS

# INSTALLATION INSTRUCTIONS

<b>DESCRIPTION:</b>	<b>Impact Sensor Gen II Kit</b>
<b>APPLICATION:</b>	<b>Kicks(SR Premium Only)</b>
<b>PART NUMBER(S)</b>	<b>T99M2 5RL0A</b>
<b>REQUIRED FOR</b>	<b>T99F6 4RA0A , Accessory Service Connector - not included in kit above</b>
<b>INSTALLATION:</b>	
<b>KIT CONTENTS:</b>	



**E**

**STOP 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](http://www.Infiniti-Techinfo.com) or [www.Nissan-Techinfo.com](http://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 AW000 Rev. 06/05/12

**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 5RL0A  
**REQUIRED FOR**  
**INSTALLATION:** T99F6 4RA0A , Accessory Service Connector - not included in kit above

**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 13mm Socket

**INSTALLATION CAUTIONS:**

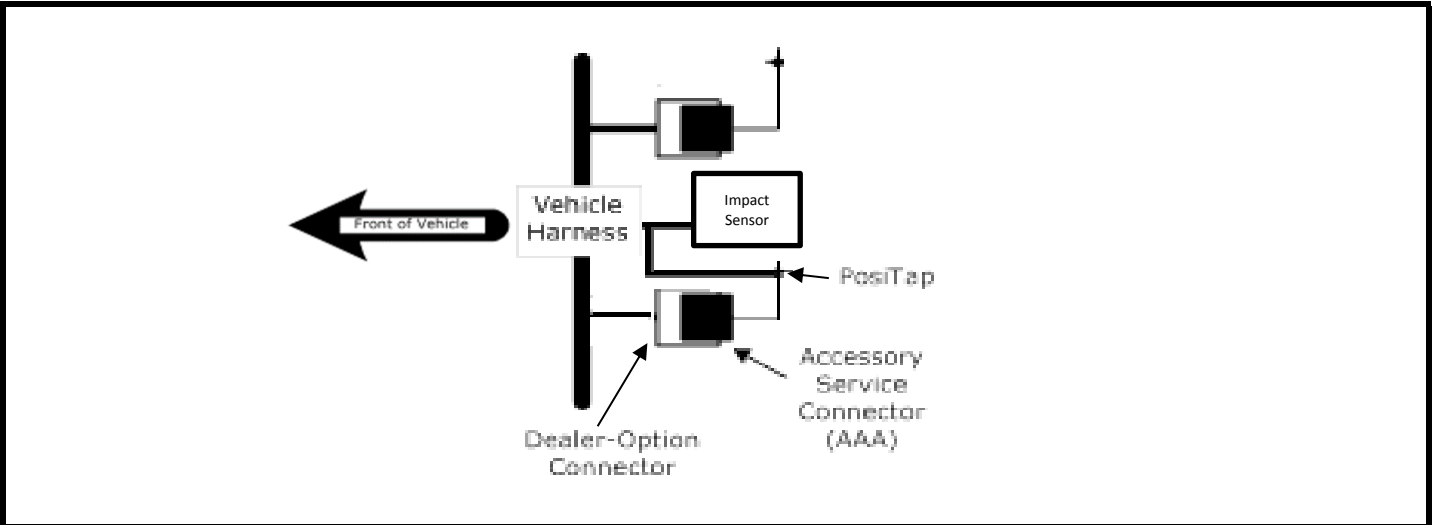


**CAUTION**

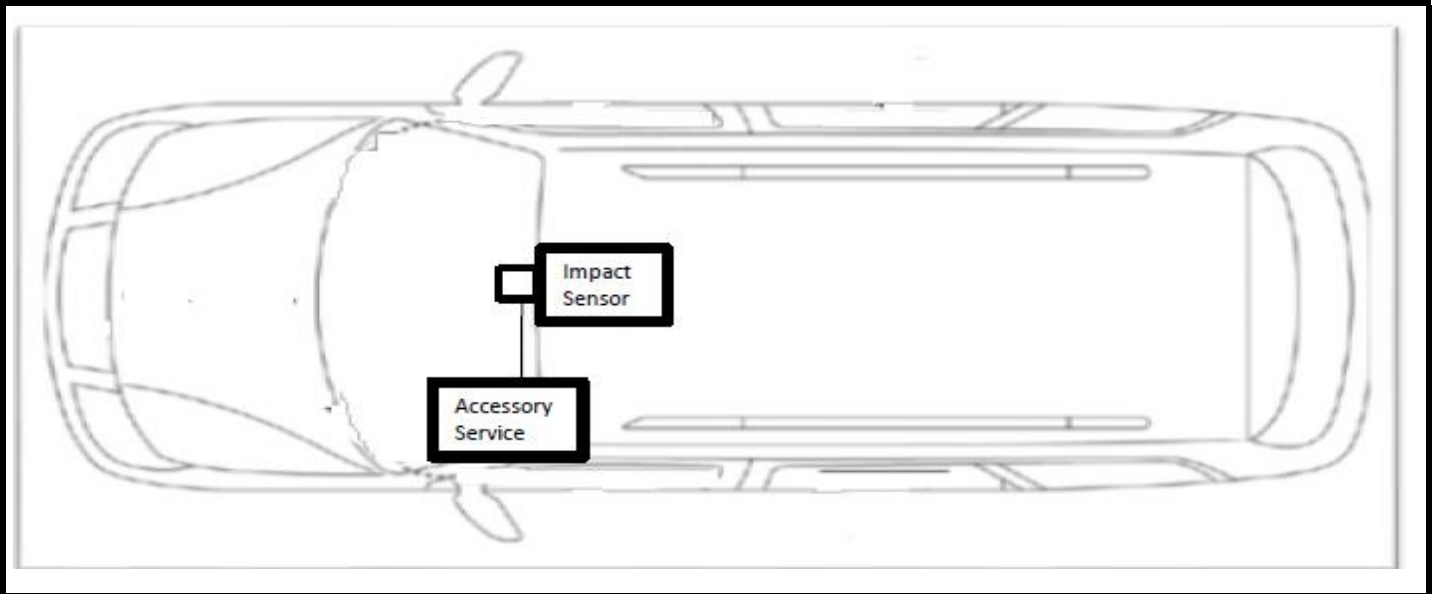
- Dealer installation recommended. Instructions may refer to Service Manual.
- Please read this instruction carefully before installing this product for correct installation.
- Please **DO NOT** use or install the part in ways other than what is described.
- Always use floor, seat and steering wheel 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

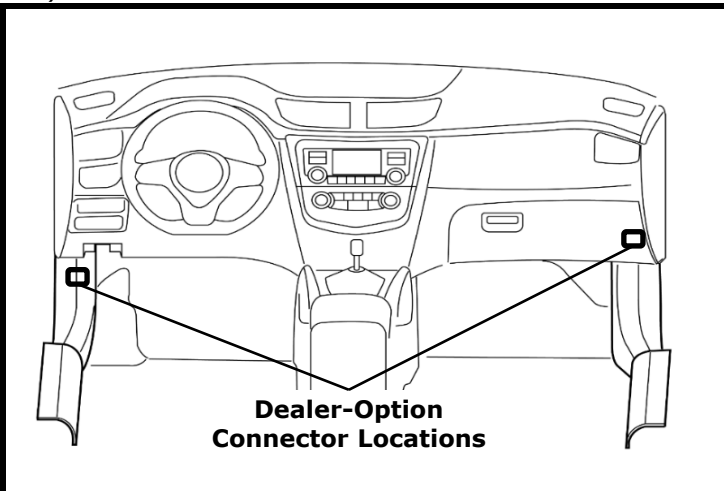
### 1.1) SYSTEM



### 1.2) VEHICLE



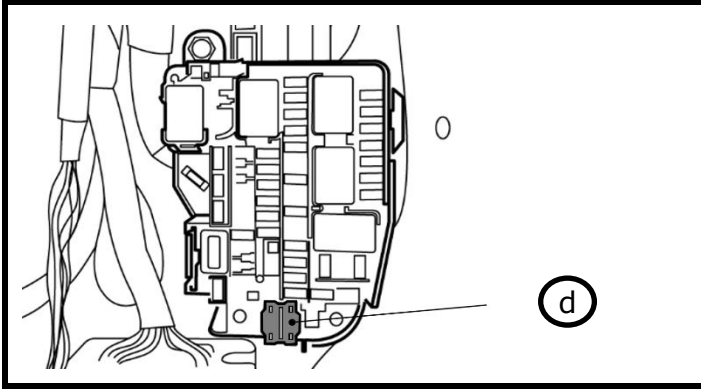
### 1.3) D-OPT CONNECTOR LOCATION



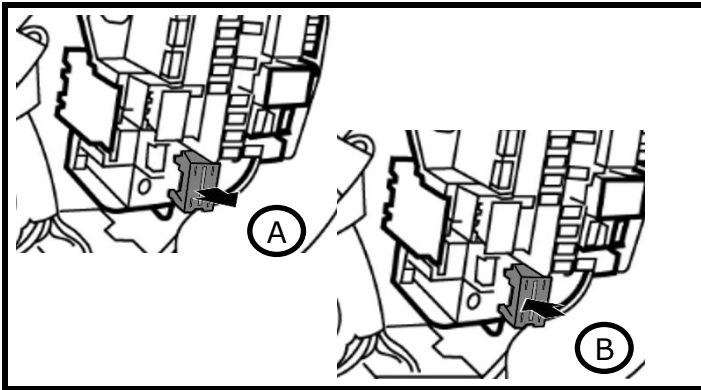


# CAUTION

- 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.

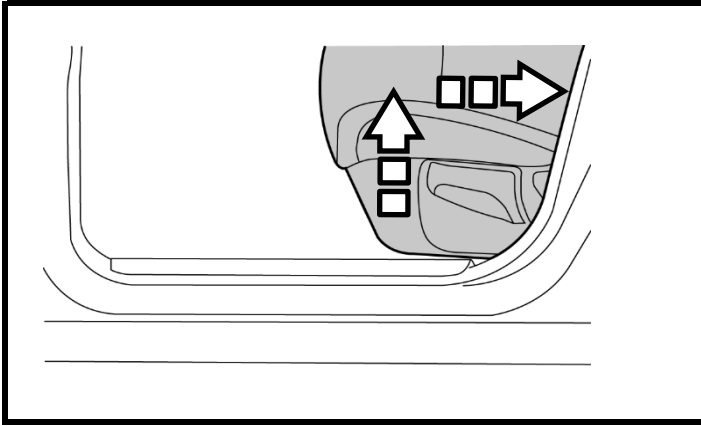
Condition	Switch Position	Note
Vehicle is delivered to the dealer	Transit (OUT)	
Vehicle is being stored at the dealer	Transit (OUT)	
Vehicle is delivered to customer	Customer (IN)	

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

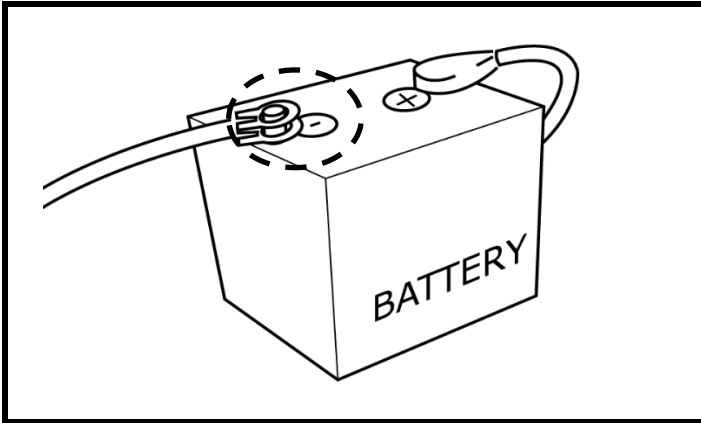
Preset	1	2	3	4	5	6	7	8	9	10

- c ) Place ignition in "OFF" mode.

## SECTION 2 - Vehicle Preparation



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



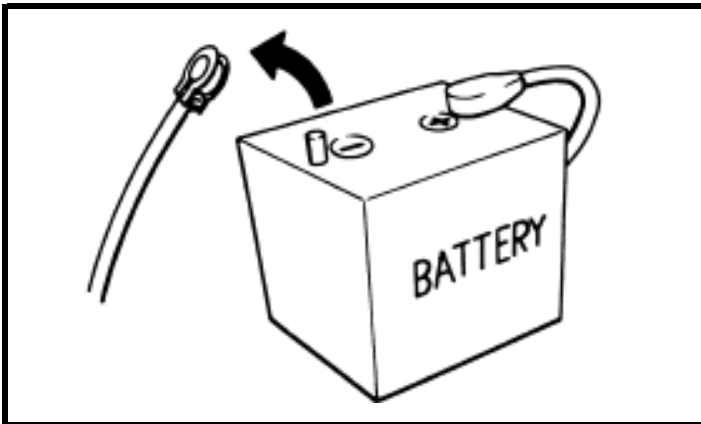
- 2.5) Disconnect battery terminal
- Locate negative battery terminal.
  - Loosen nut with 10mm socket.

**Battery Terminal Nut**



**⚠ CAUTION**

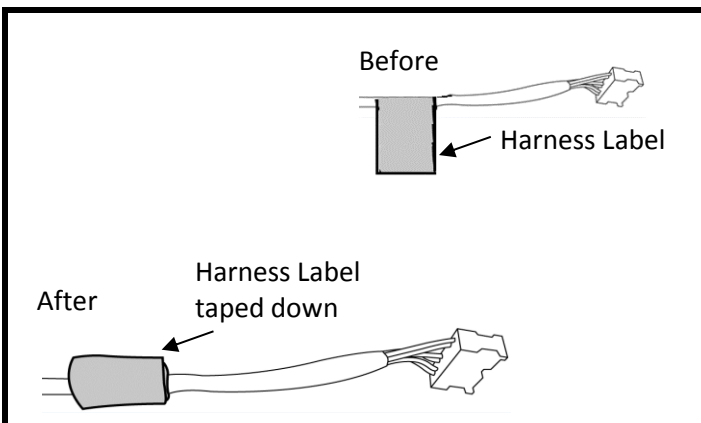
- Allow 3 min after key off with doors closed for vehicle power to time out.



- 2.6) Disconnect battery terminal
- Lift negative battery terminal off stud.
  - Isolate negative battery terminal.

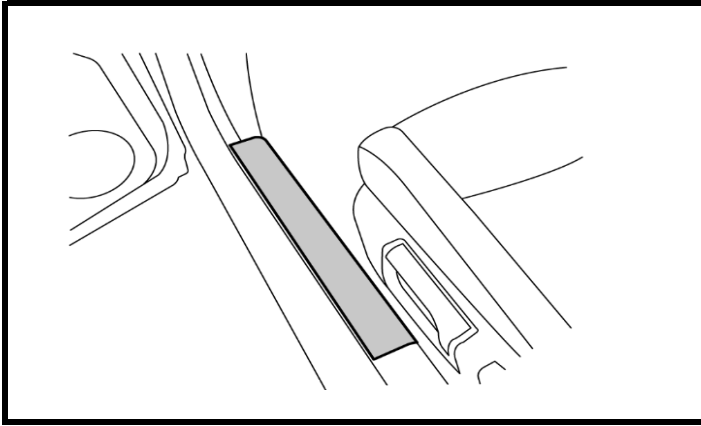
**⚠ CAUTION**

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

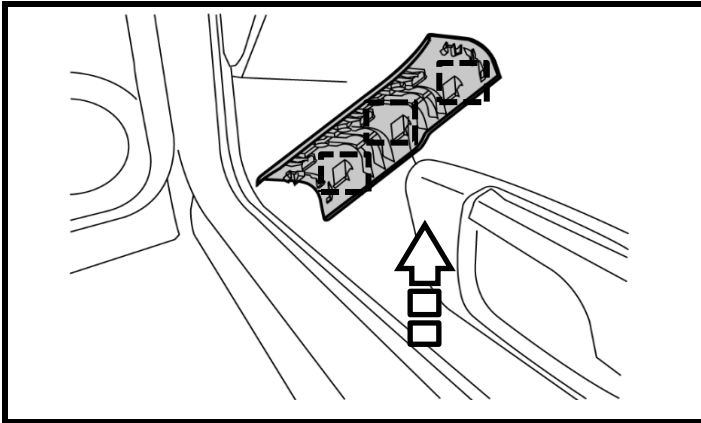


- 2.7) Secure down Harness Labels
- To prevent any squeak and rattle, wrap all labels (on buzzer and on harness) around and

## SECTION 3 - TRIM REMOVAL

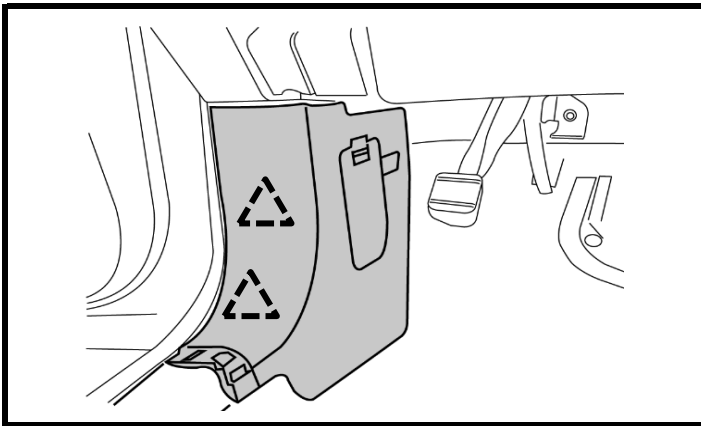


- 3.1) Remove LH trim  
a ) Locate LH inner sill plate assembly.



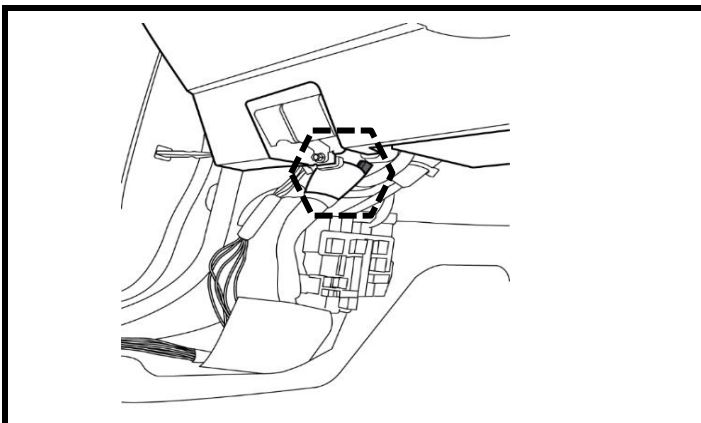
- 3.2) Remove LH trim  
a ) Disengage lower trim clips by pulling toward interior.  
b ) Lift sill plate up and out as shown.

**Trim Clip**



- 3.3) Remove LH trim  
a ) Locate LH lower kick trim.  
b ) Remove trim fastener from lower kick trim by unscrewing with hand.  
c ) Disengage lower kick trim pawl by pulling toward interior of vehicle as shown.

**Pawl**

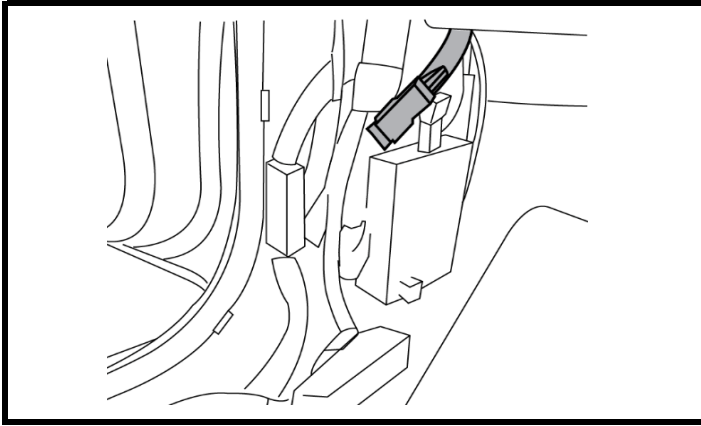


- 3.4) Locate LH D-Opt connector  
a ) Locate Dealer-Option connector taped to main harness bundle.  
b ) Carefully tear or cut tape to free Dealer Option connector.

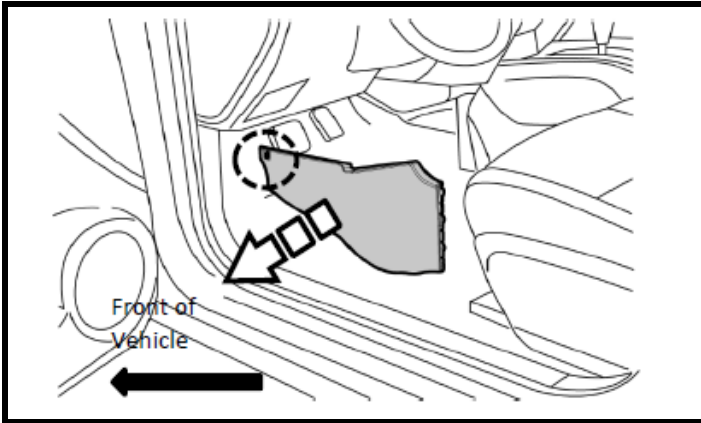
**D-Opt Connector**



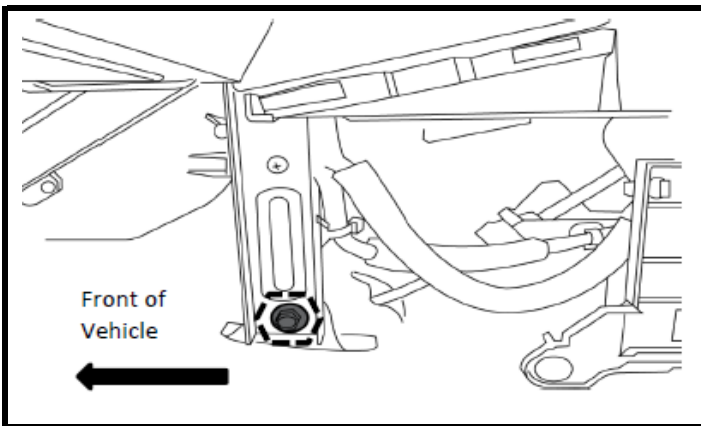
## SECTION 4 - TRIM REMOVAL



- 3.5) Locate LH D-Opt connector  
a ) Unfold Dealer-Option connector and let hang as shown.



- 3.6) Remove Console Trim on LH side

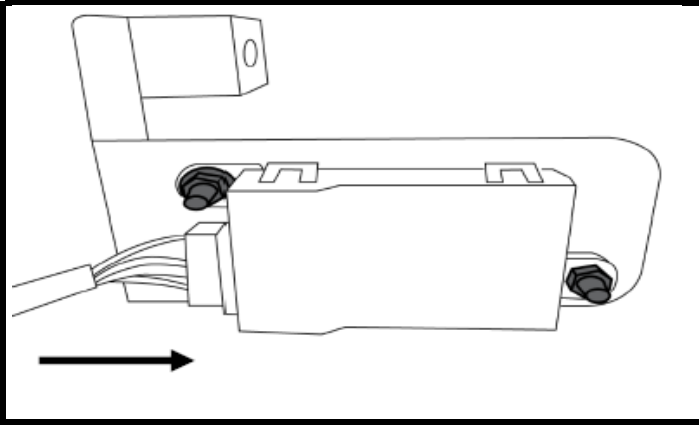


- 3.7) Remove Pre-existing Nuts on Driver side Sill  
a ) Use a 13 mm Socket to remove Nuts

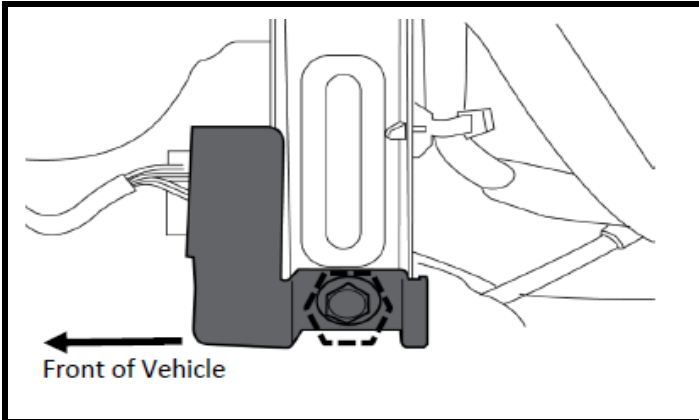
**Nuts**



## SECTION 4 - Harness Routing



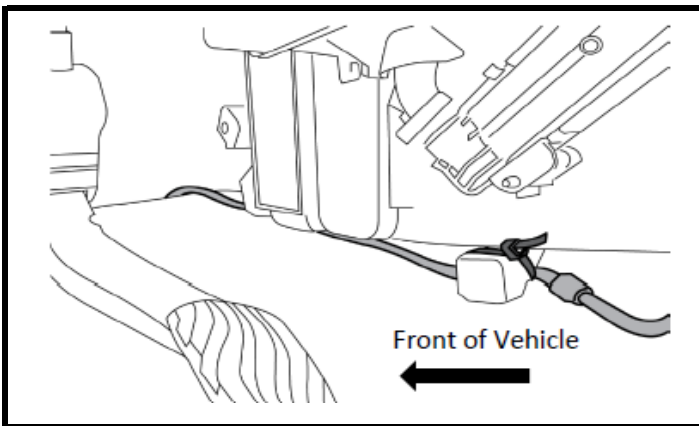
4.1) Connect Impact Sensor Harness to Impact Sensor Module.



4.2) Secure Impact Sensor Assembly.

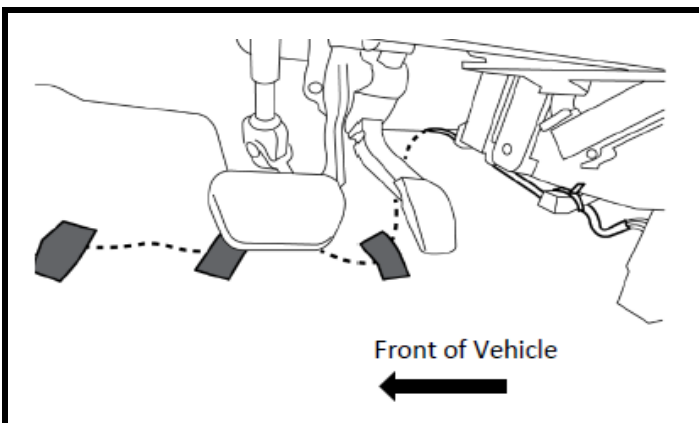
- a ) Secure Impact Sensor Assembly to vehicle bracket with previously removed nuts. Torque nuts down using between 8-12 Nm.

**Nuts**



4.3) Route Impact Sensor Harness

- a ) Route Harness towards driver's side under carpet.
- b ) Secure harness to the Trim clip mounting point with zip tie.

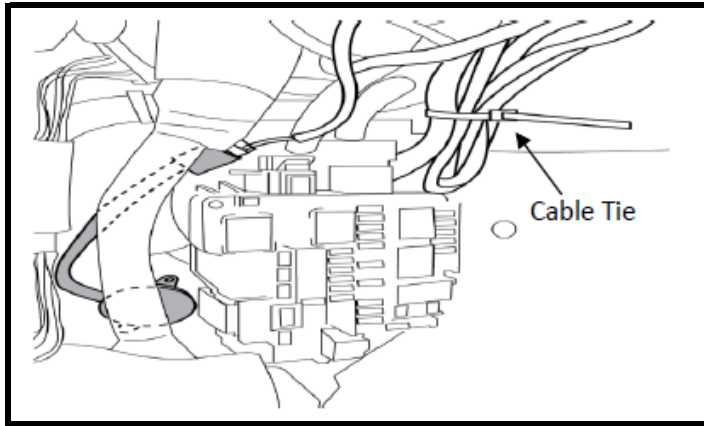


4.4) Route Impact Sensor Harness

- a ) Route Harness under carpet and tuck harness under foam board.
- b ) Secure harness to backside of foam board with foam tape.

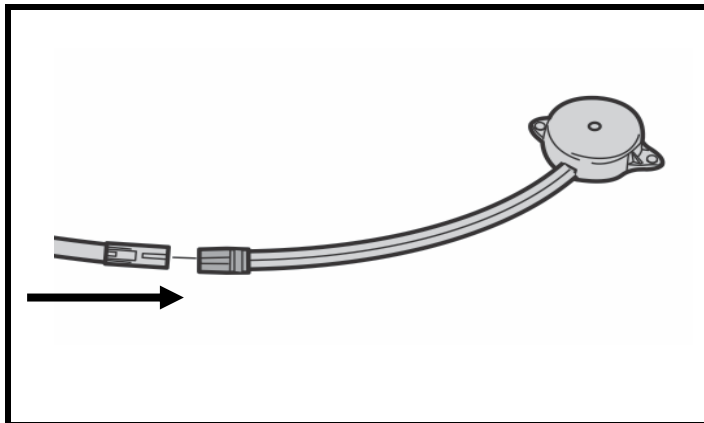


**SECTION 4 - Harness Routing**

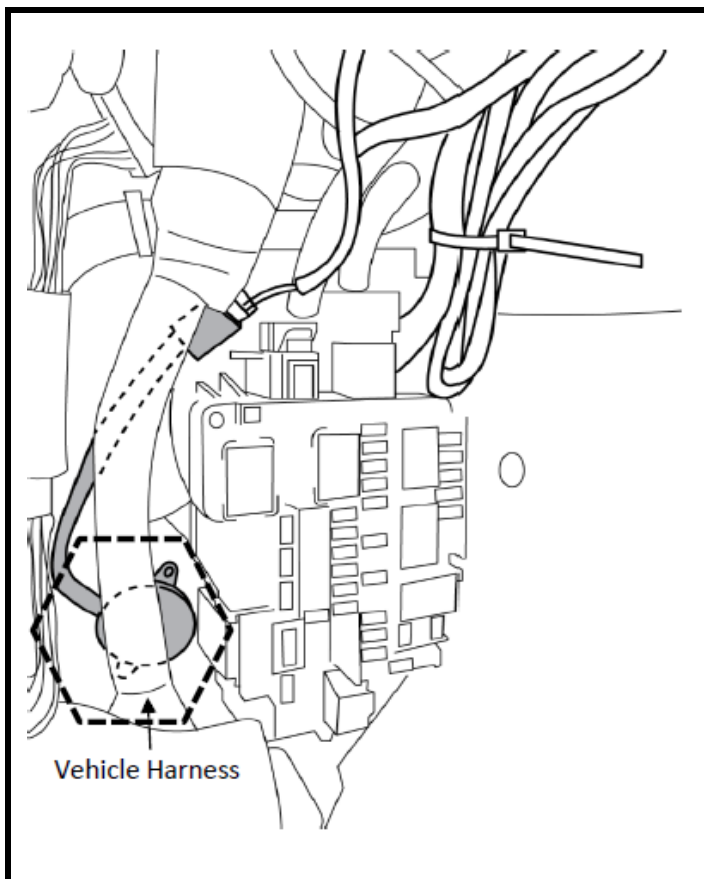


4.5) Route Harness

- a ) Route Harness up along existing harness by LH DASH SIDE FINISHER. Bundle and secure any excess harness with cable ties.



4.6) Connect Buzzer to Impact Sensor Harness.



4.7) Secure Buzzer to flat metal surface on Lower instrument panel.

- a ) Remove adhesive from back of buzzer and mount buzzer to the flat surface of Lower Instrument panel behind the existing vehicle harness.

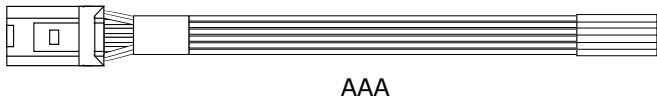
**Buzzer**



**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.

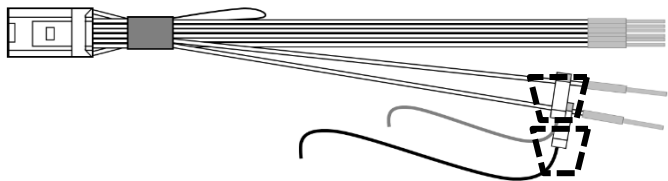
**Accessory Service Connector**



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.

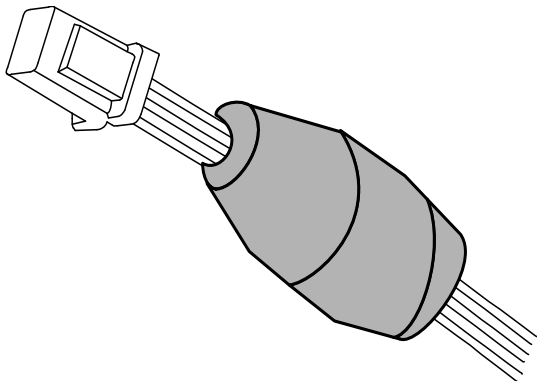
- 5.2) Connect ASC (AAA) to Impact Sensor
  - a ) Using a Posi-Tap, connect the BLACK Impact Sensor lead wire to the "GND" (BLACK wire) of the ASC (AAA) as shown.
  - b ) Using a Posi-Tap, connect the Red Impact Sensor lead wire to the "BAT" (RED wire) of the ASC (AAA) as shown.
  - c ) Using a Posi-Tap, 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 LT 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 "ACC" (white wire) of the ASC (AAA) as shown.



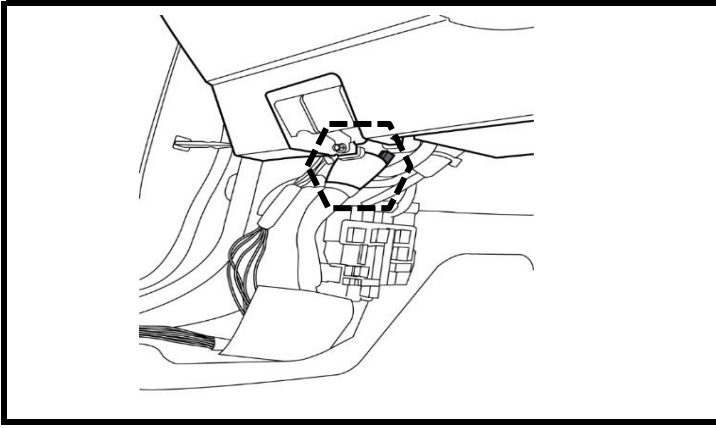
**Posi Tap**



- 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.



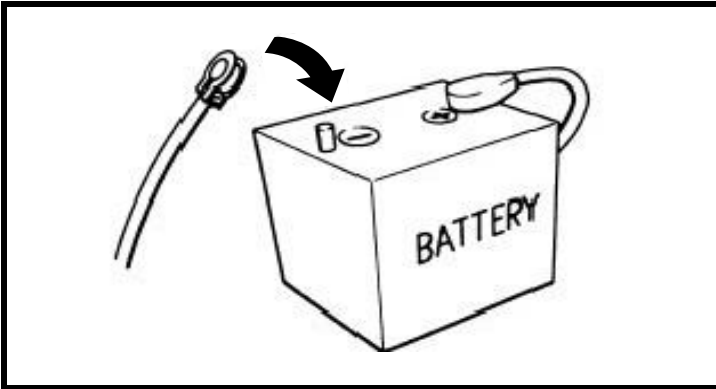
## SECTION 5 - Accessory Service Connector



5.4) Connect ASC (AAA) to Impact Sensor Module

- a ) Plug LH ASC into LH 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 10 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) Re-install trim

- a ) Re-install interior trim that was removed in Section 3 - Trim Removal, Front

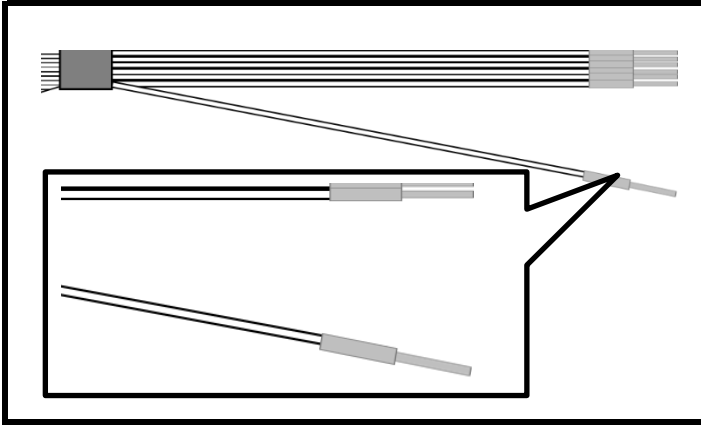
 **CAUTION**

**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:

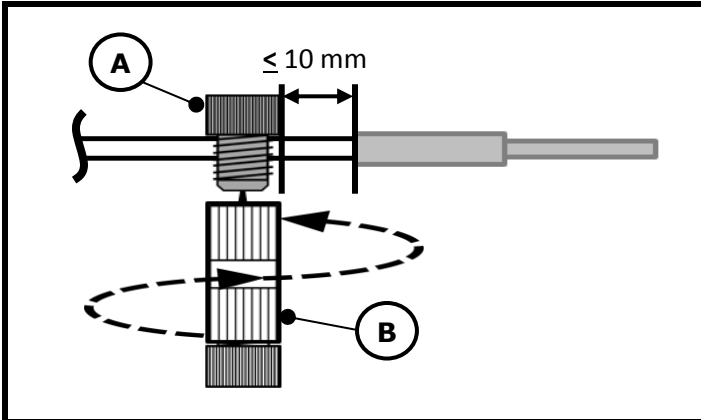
- Tighten battery terminal nut to 5 N-m.
- Cut excess length of all Cable ties between 3-5mm with wire cutting pliers and verify all wiring is secure.
- Verify re-installed trim parts for proper fit (no gap, waviness, etc.), particularly the door sill weather
- Verify all windows and sunroof (if equipped), 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. See step 2.2 .
- 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.



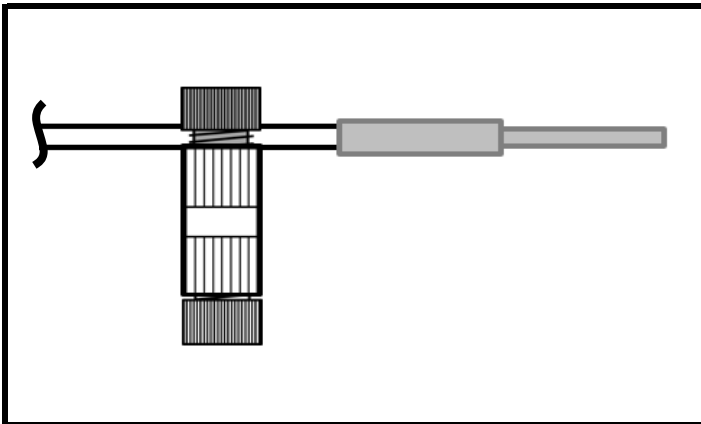
### A.2) Installing Posi-Tap™ on ASC (AAA)

- a ) Remove pierce cap (A) gray side from tap
- b ) Slide cap around single wire to be tapped
- c ) Position cap  $\leq 10$  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.



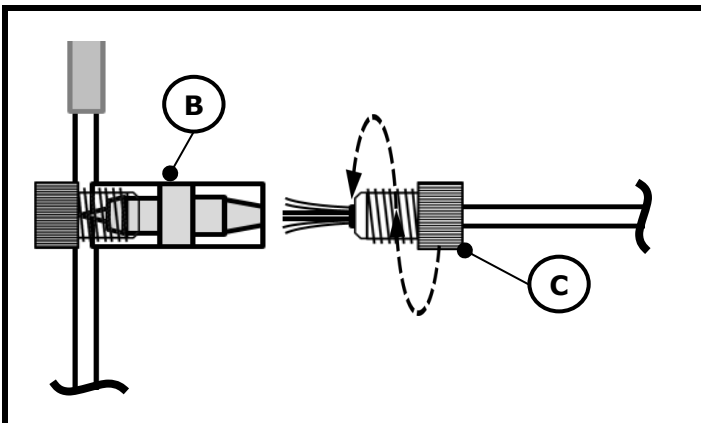
**CAUTION**

**Do not overtighten Posi-Tap, it may damage wire**



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

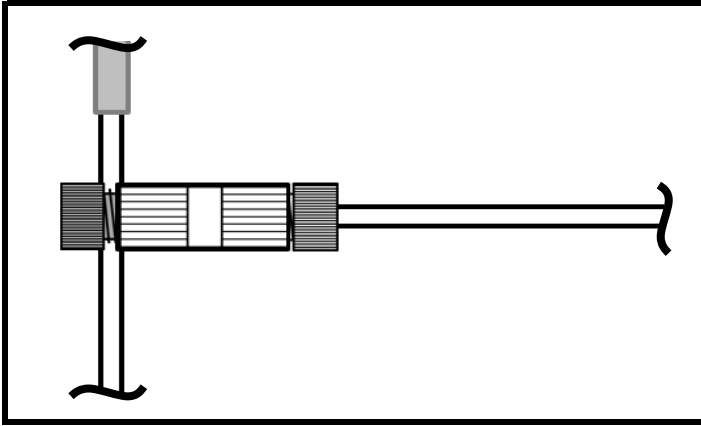
- a ) Inspect Posi-Tap™ to ensure correct installation.
- b ) Wire jacket should be crushed enough to maintain pressure.
- c ) Confirm tap cap gap is straight and evenly spaced around perimeter.



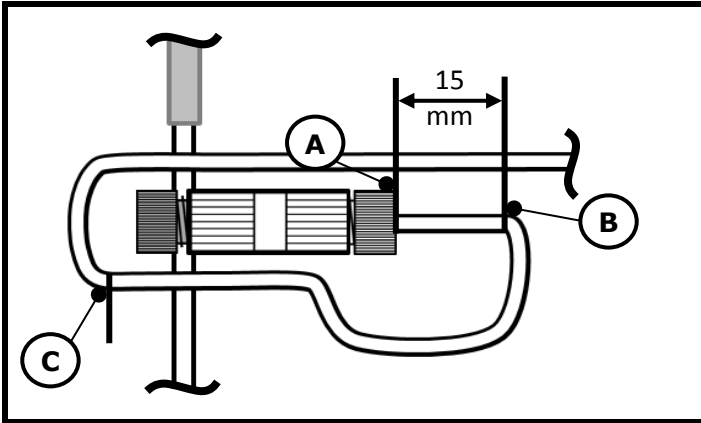
### A.4) Installing Accessory wire into Posi-Tap™

- 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 out.
- f ) Turn tap bottom (C) clockwise until finger "tight". Then secure to tap body (B) with another  $\frac{1}{4}$  turn.

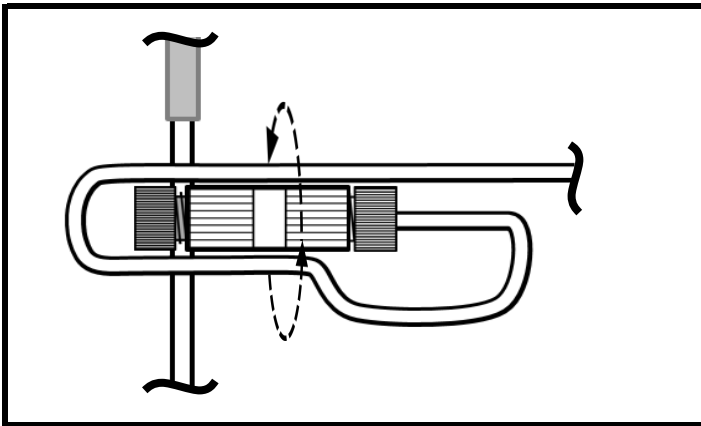
## APPENDIX A - Posi-Tap Procedure



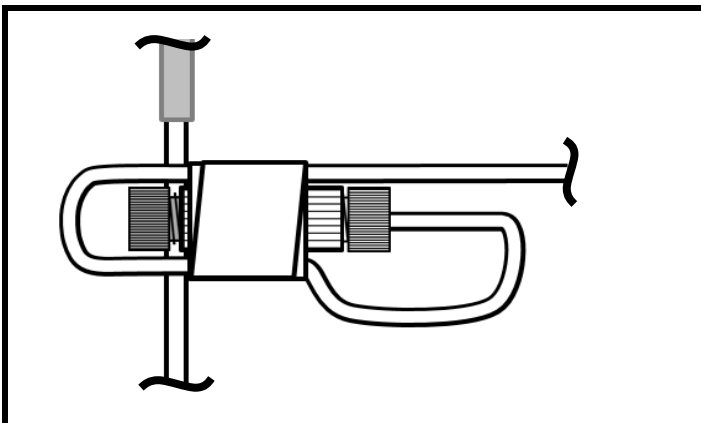
- A.5) Installing accessory wire into Posi-Tap™
- Confirm tap bottom gap is straight and evenly spaced around perimeter
  - Gently pull on wire to confirm secure connection.



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



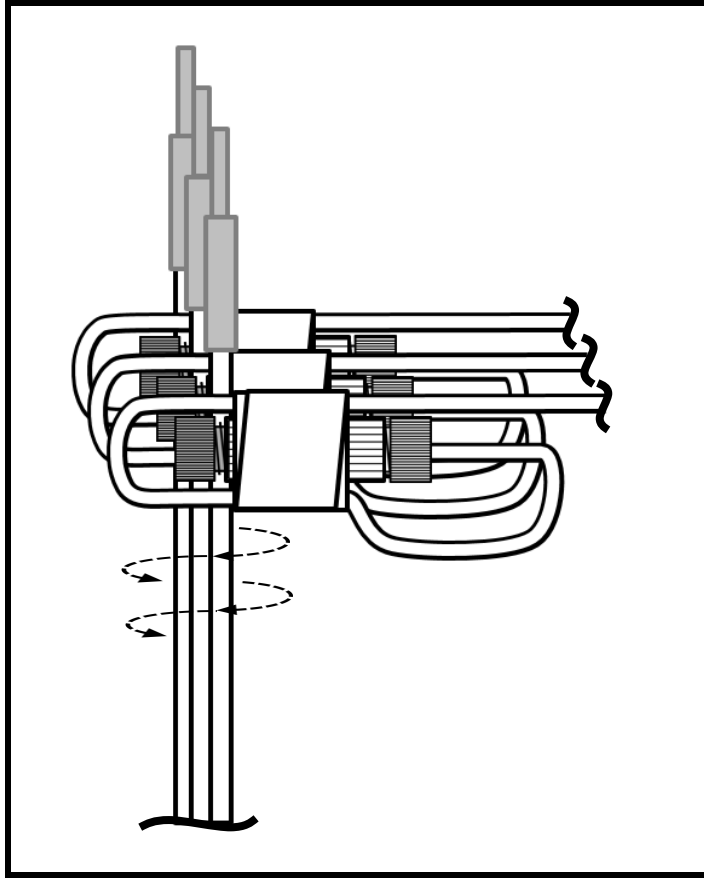
- A.7) Accessory wire strain relief
- Secure accessory wire strain relief to tap body with electrical tape ( $\geq 2$  revolutions).



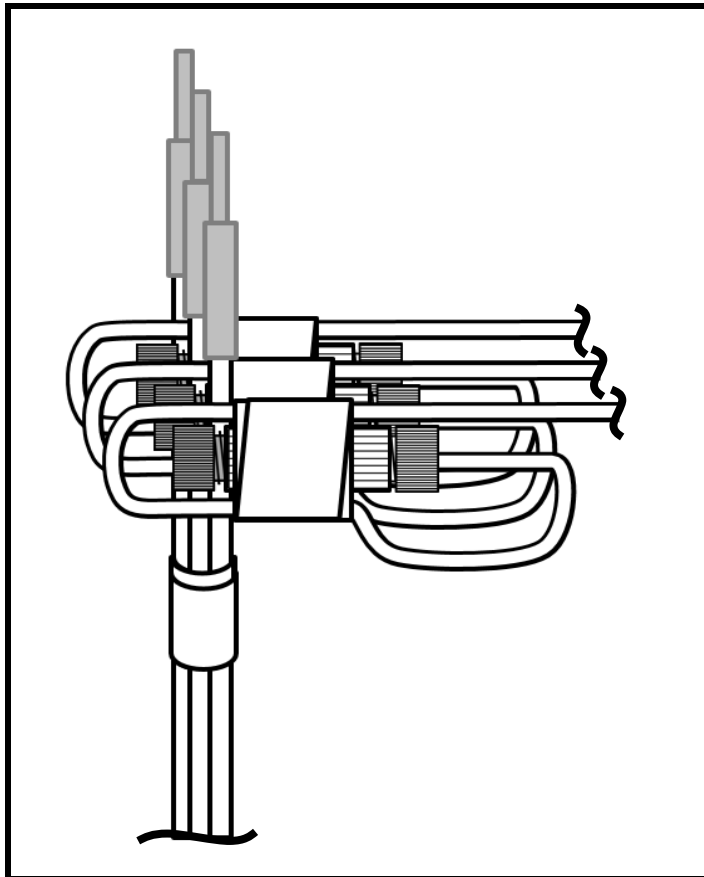
- A.8) Accessory wire strain relief
- Once accessory wire strain relief is taped to tap body, it should look as shown.

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

## APPENDIX A - Posi-Tap Procedure



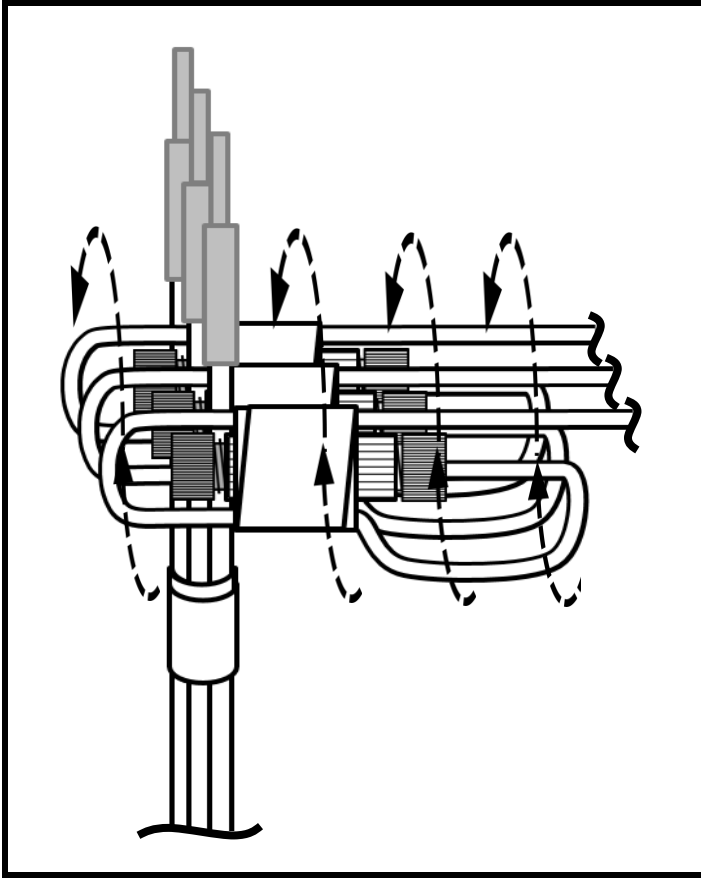
- A.10) Securing multiple Posi-Taps™ together
- a ) Stack Posi-Taps™ in slightly staggered fashion as shown.
  - b ) Secure tapped circuits together with electrical tape ( $\geq 2$  revolutions).



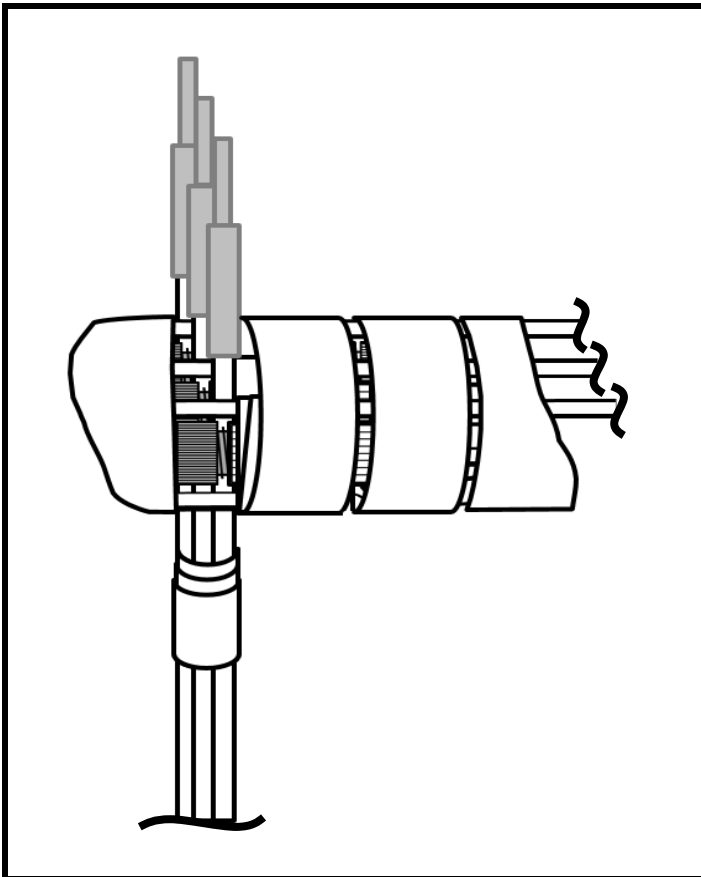
- A.11) Securing multiple Posi-Taps™ together
- a ) Once tapped circuits are secured together with electrical tape they should look as shown.

**APPENDIX A - Posi-Tap Procedure**

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

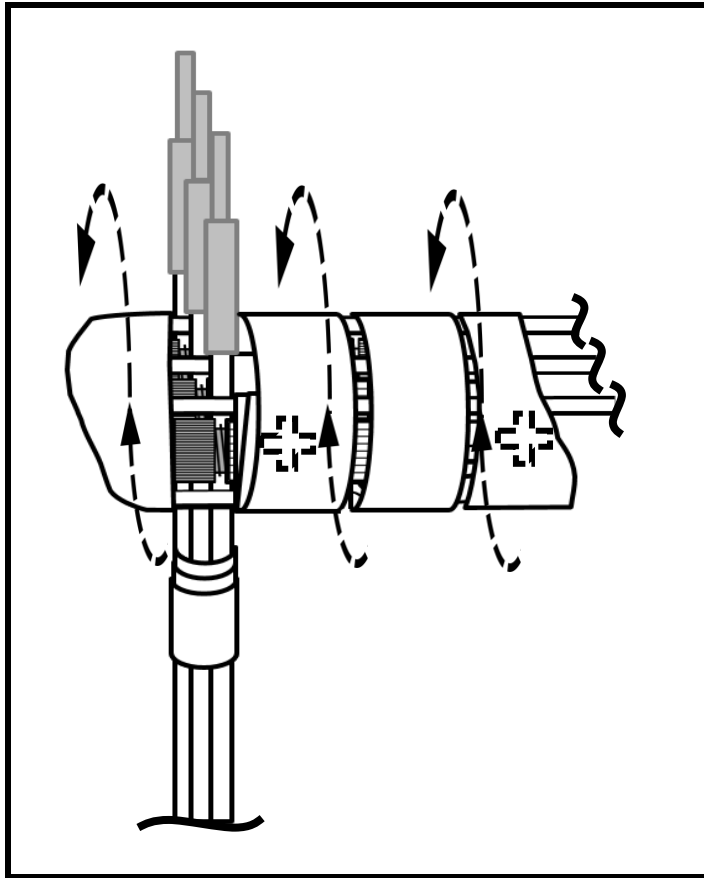


- A.13) Securing multiple Posi-Taps™ together  
a ) Once Posi-Taps™ are secured together with electrical tape they should look as shown.



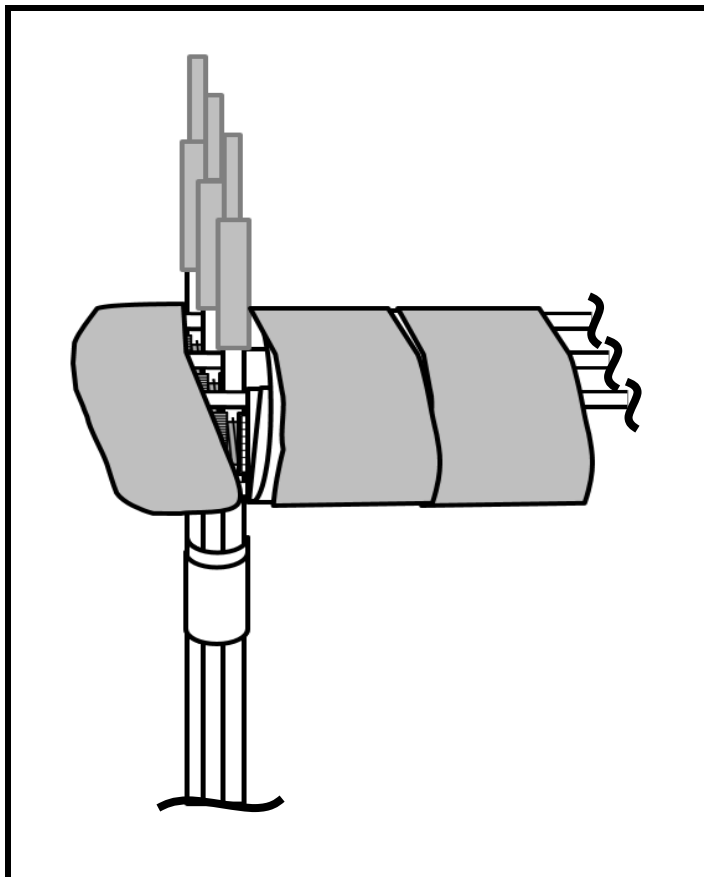


## APPENDIX A - Posi-Tap Procedure



- 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™.

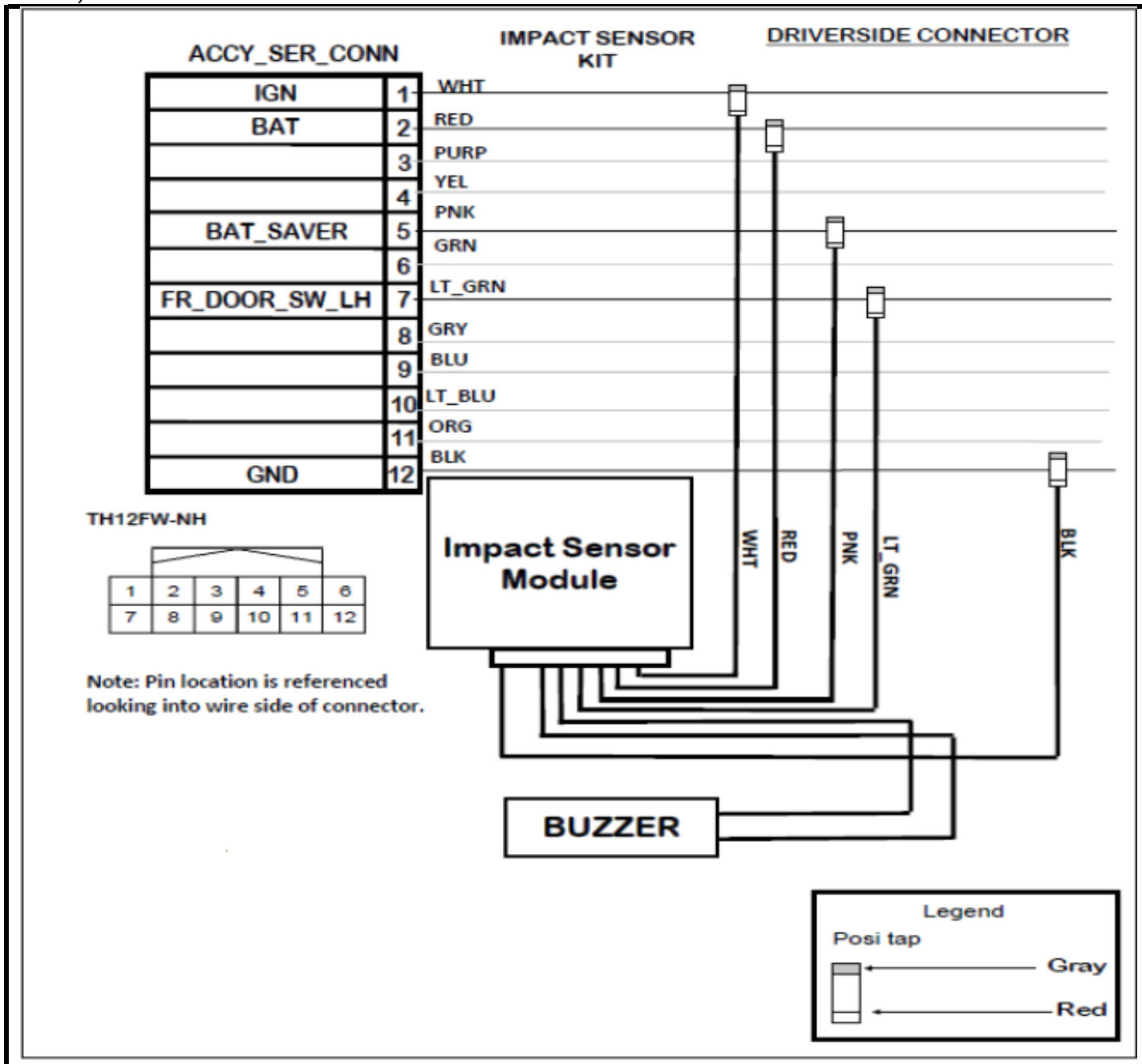
**Foam Tape, Gray (H)**



- 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
CONNECTOR NAME	ACCESSORY SERVICE CONNECTOR
CONNECTOR COLOR	WHITE

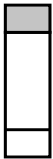
**UNIT**



TH12FW-NH					
1	2	3	4	5	6
7	8	9	10	11	12

**LEGEND**

**POSI-TAP**



GRAY - CIRCUIT TAP (PIERCE) SIDE

RED - ACCESSORY (INSERT) SIDE

Note: Pin location is referenced looking into harness side of connector with lock tab oriented as shown.

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