



GENUINE PARTS

INSTALLATION INSTRUCTIONS

DESCRIPTION: Impact Sensor Gen II Kit

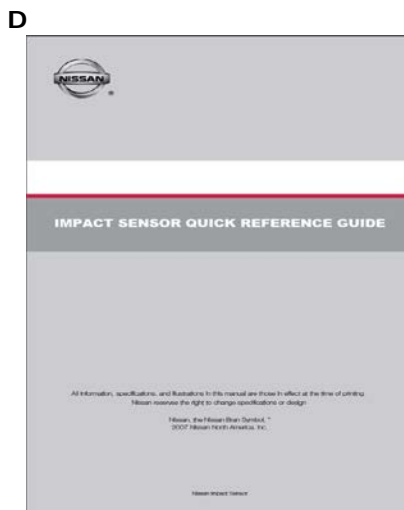
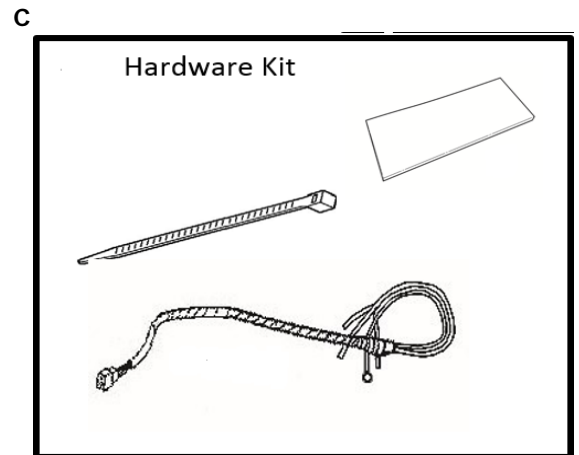
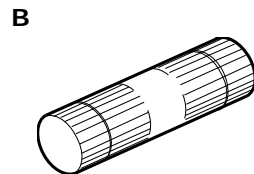
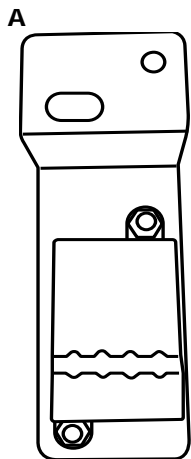
APPLICATION: MY18 Armada

PART NUMBER(S) T99M2 5ZW0A

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

INSTALLATION:

KIT CONTENTS:



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 5ZW0A
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	7	Posi-Tap	
C	1	Hardware Kit	
	1	Impact Sensor Harness	
	8	Urethane Foam Tape	
	8	Cable Ties	
D	0	Quick Reference Guide	999V2 AW000
E	1	Installation Instruction Replacement Template	

TOOLS REQUIRED:

- Trim Removal Tool, Nylon
- Short 1/4" Ratchet Drive
- Screwdriver, Torx T-20
- Dikes(Wire Cutter)
- 1/4" Drive 10mm Socket
- 10 mm Ratcheting Wrench
- Screwdriver,Flat head
- Masking Tape

INSTALLATION CAUTIONS:

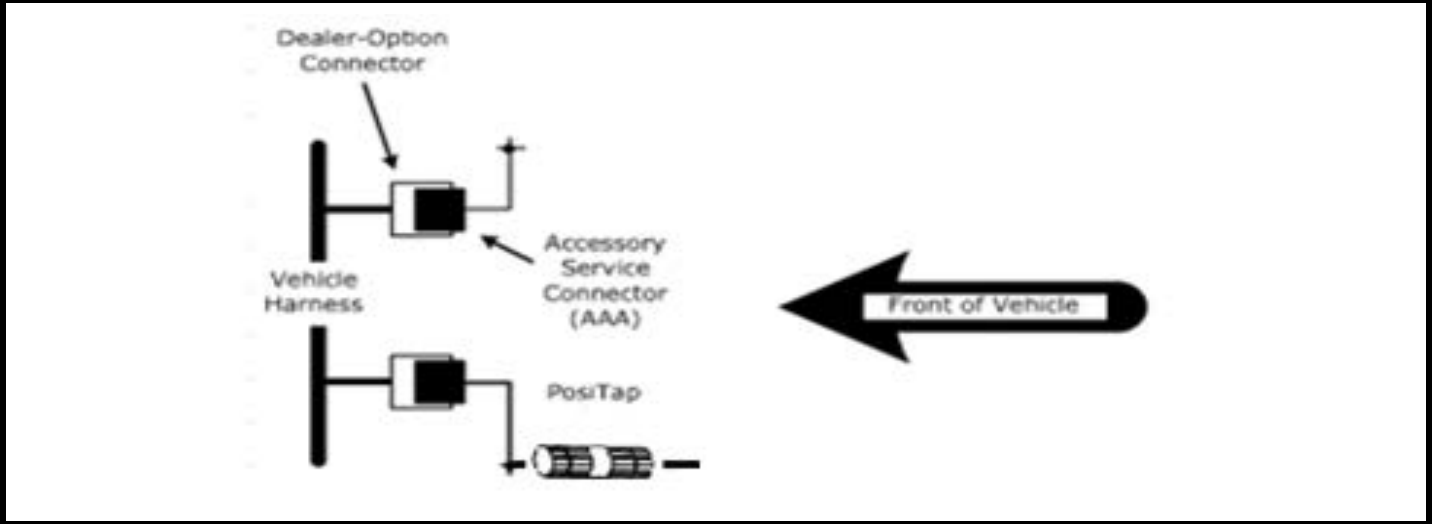


CAUTION

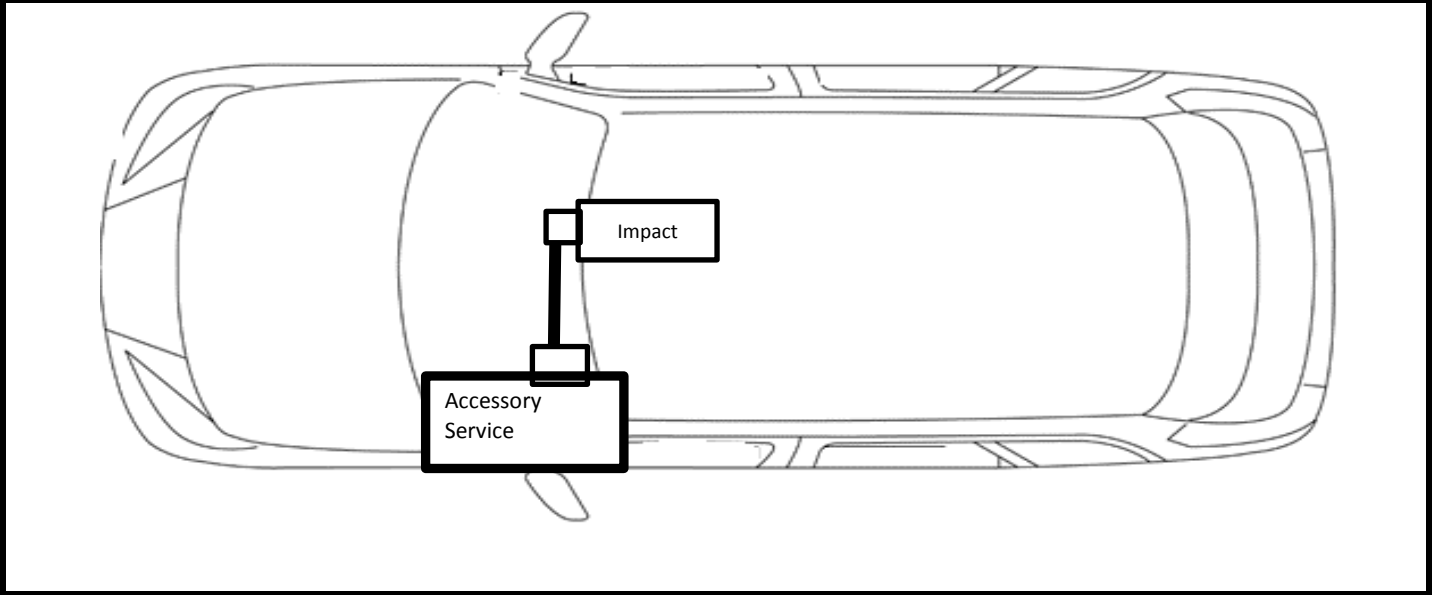
- Dealer installation recommended. Instructions may refer to Service Manual.
- Please read this instruction carefully before installing this product for correct installation.
- Please **DO NOT** use or install the part in ways other than what is described.
- Always use floor, seat and steering wheel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

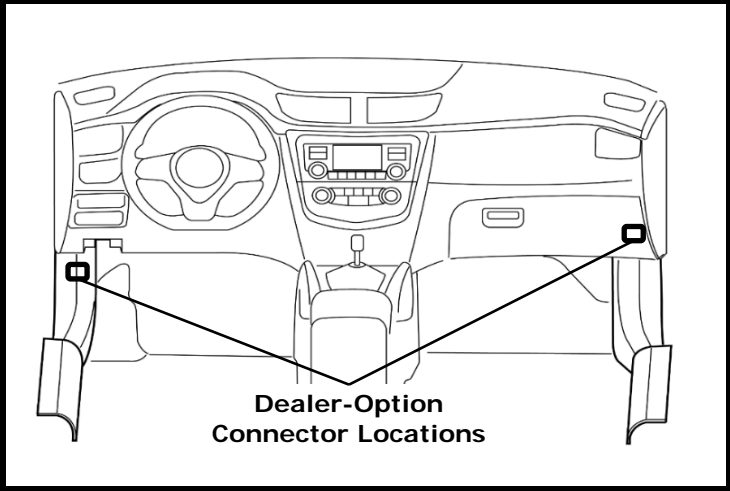
1.1) SYSTEM



1.2) VEHICLE



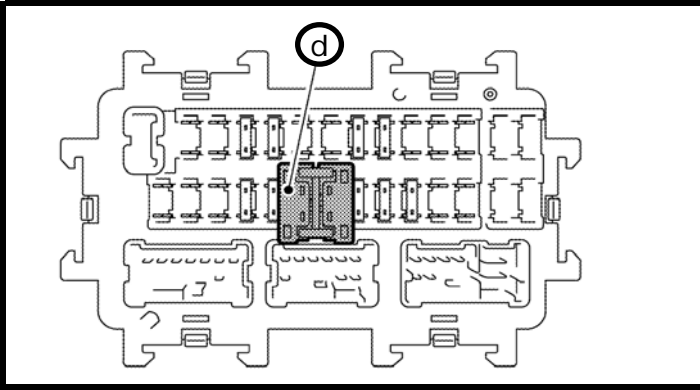
1.3) D-OPT CONNECTOR LOCATION



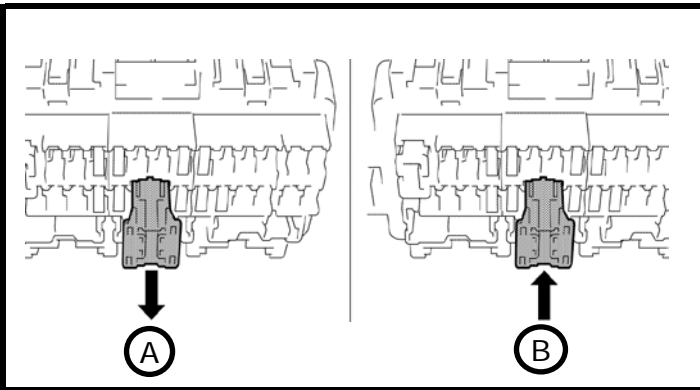


CAUTION

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



- 2.2) Changing ESS Position
- To disengage Customer Mode, pull out in **A** direction as shown.
 - To engage Customer Mode, press in **B** direction as shown.

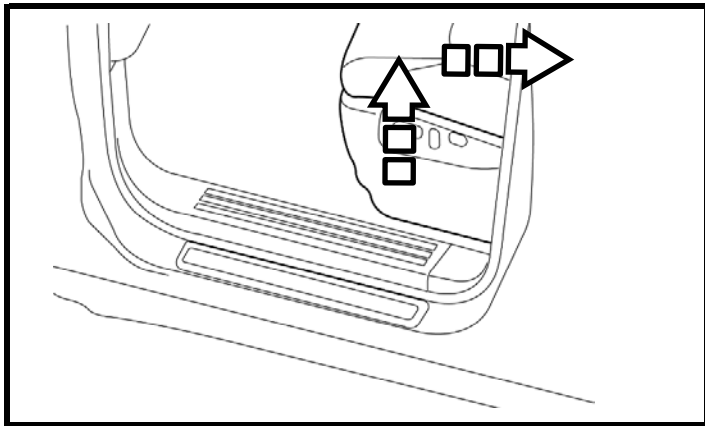
Condition	Switch Position	Note
Vehicle is delivered to the dealer	Transit (OUT)	
Vehicle is being stored at the dealer	Transit (OUT)	
Vehicle is delivered to customer	Customer (IN)	

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

Preset	1	2	3	4	5	6	7	8	9	10

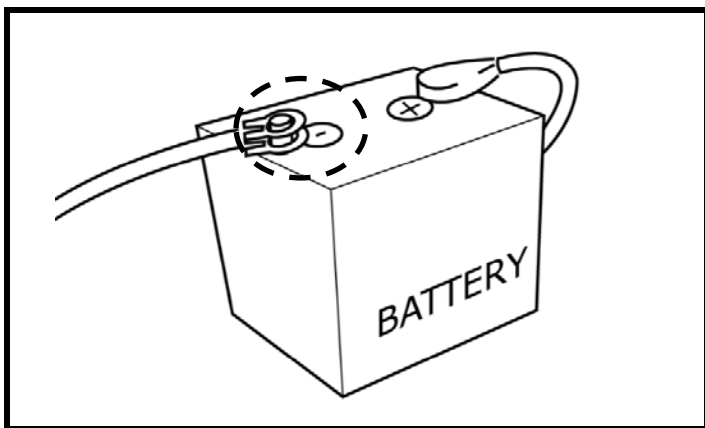
- Place ignition in "OFF" mode.

SECTION 2 - VEHICLE PREPARATION



2.4) Move seats.

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



2.5) Disconnect battery terminal

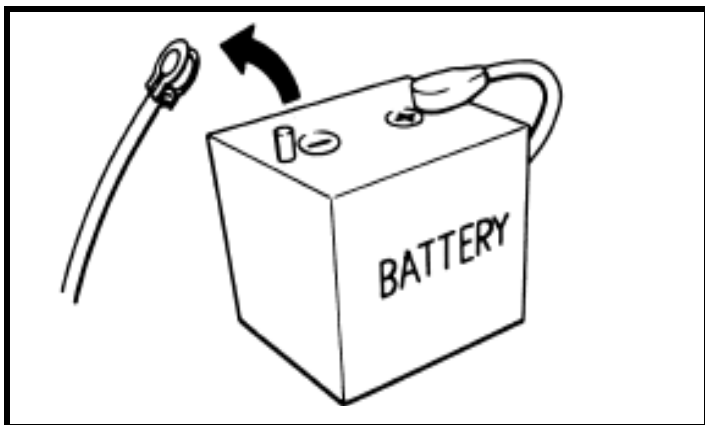
- a) Locate negative battery terminal.
- b) Loosen nut with 10mm socket.

Battery Terminal Nut



⚠ CAUTION

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



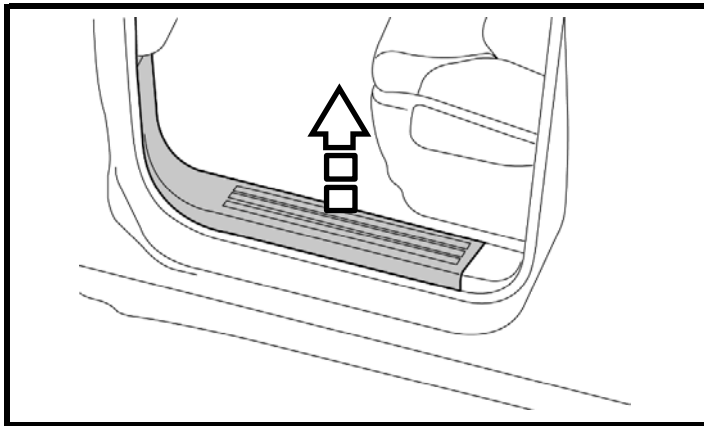
2.6) Disconnect battery terminal

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

⚠ CAUTION

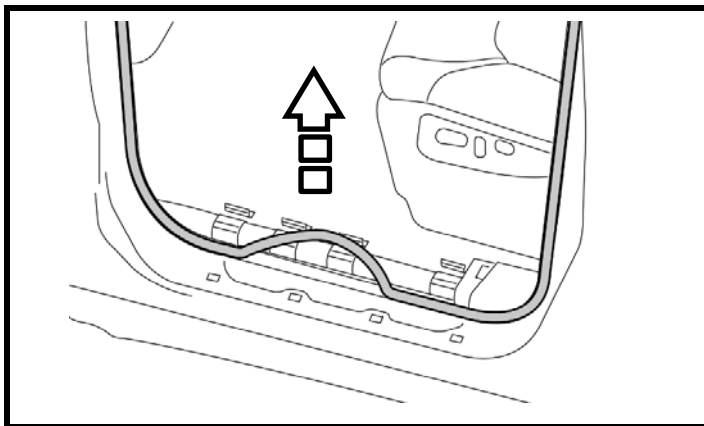
- Allow 3 min after negative terminal disconnect before separating any electrical connectors.

Section 3 - Trim Removal



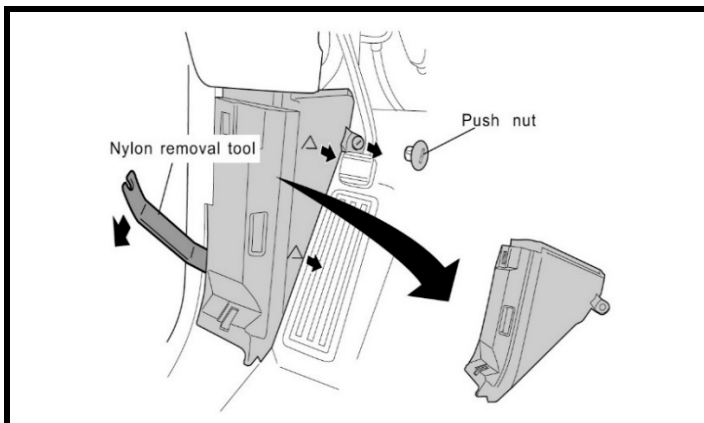
3.1) Remove Front LH trim.

- a) Carefully pry out inner door sill trim panel and remove from vehicle



3.2) Remove Front LH trim

- a) Pull up on front LH door sill weatherstrip along bottom as shown.



3.3) Remove Front LH trim

- a) Remove Push Nut from lower kick trim by unscrewing with hand.
- b) Disengage lower kick trim pawl by pulling toward interior of vehicle as shown.

Trim Fastener



Pawl

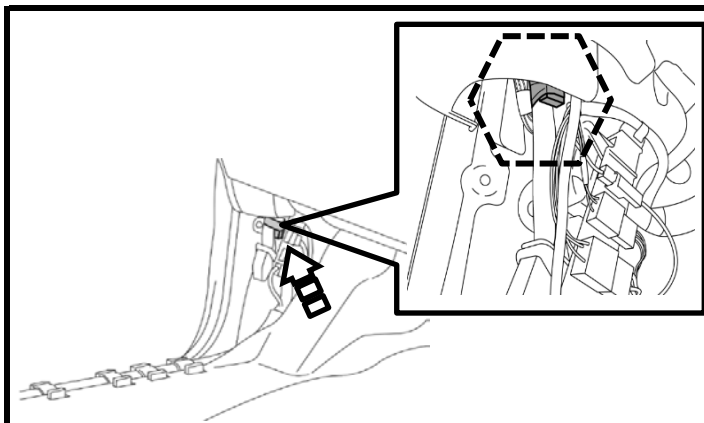


- 3.4) Repeat steps 3.1-3.3 for RH (Passenger) side of vehicle.

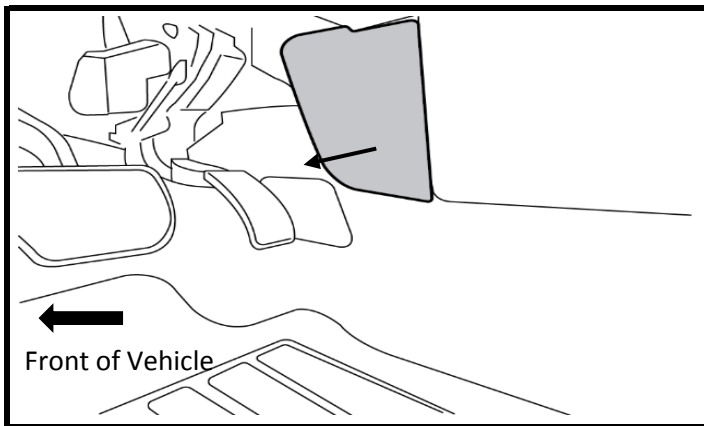
3.5) Locate LH side D-Opt connector

- a) Locate Dealer-Option connector taped to main harness bundle.

D-Opt Connector

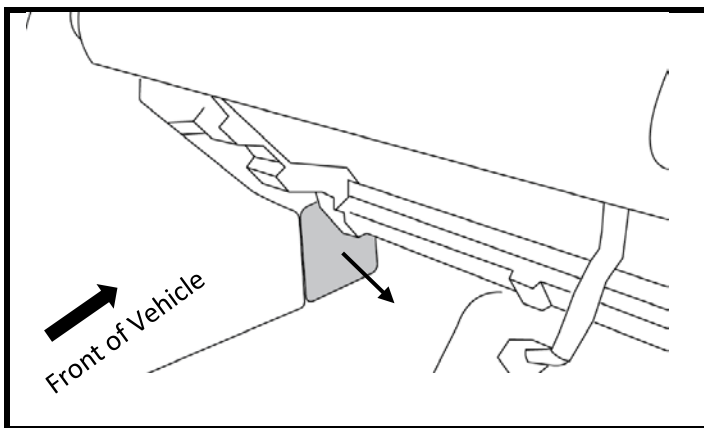


Section 3 - Trim Removal



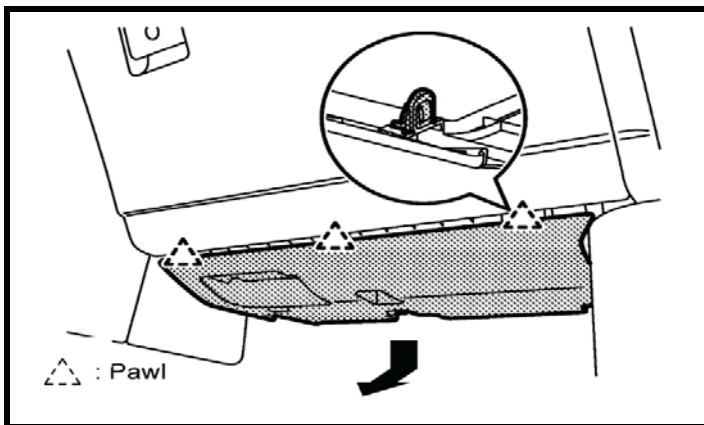
3.6 Remove Instrument Panel.

- a) Remove Instrument Panel cover on LH side.



3.7 Remove Instrument Panel.

- a) Remove Instrument Panel cover on RH side.



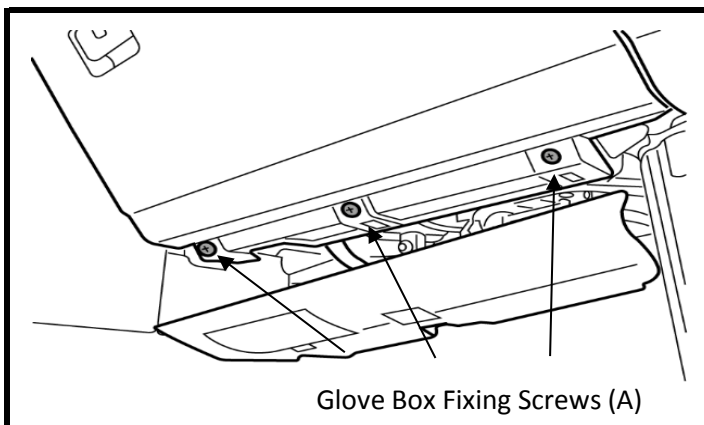
3.8 Loosen lower IP trim panel under glovebox.

- a) Using trim removal tool, disengage pawls.
- b) Pull down instrument lower panel cover. Do not disconnect any electrical connectors. Allow the panel to dangle below the glovebox.



CAUTION

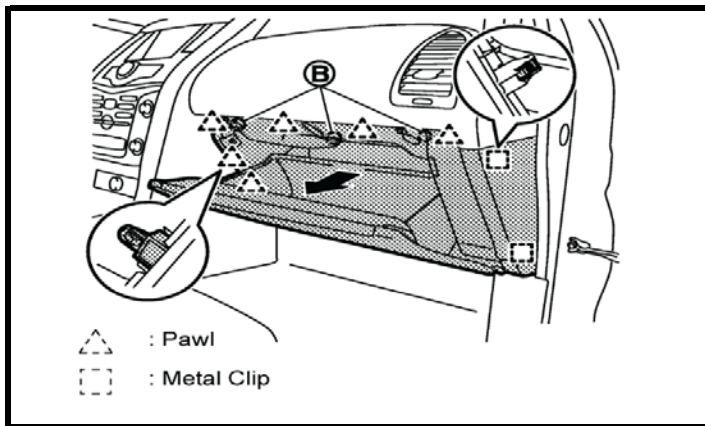
• When removing, always use a remover tool that is made of plastic.



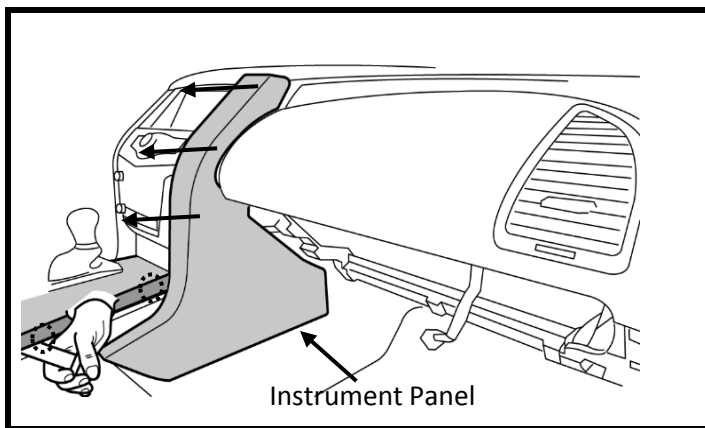
3.9 Remove glove box assembly.

- a) Remove three glove box assembly fixing screws (A) using T20 torx driver.
- b) Open glove box lid.

Section 3 - Trim Removal

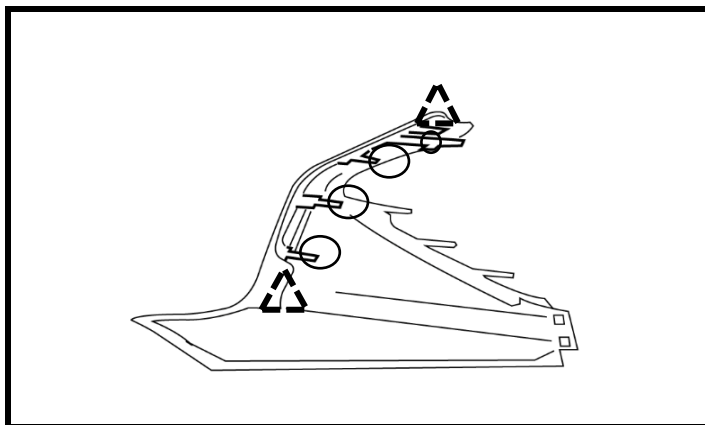


- 3.10 Remove three glove box assembly
- Remove three glove box assembly fixing screws (A) using T20 torx driver.
 - Pull back glove box assembly.
 - Disconnect harness connector.
 - Remove glove box



- 3.11 Remove Instrument Panel.
- Place masking tape on indicated clips and partially remove the shifter trim for protection during installation, as shown
 - Pull Instrument Lower Panel RH rearward in vehicle to release retaining clips.

Clips



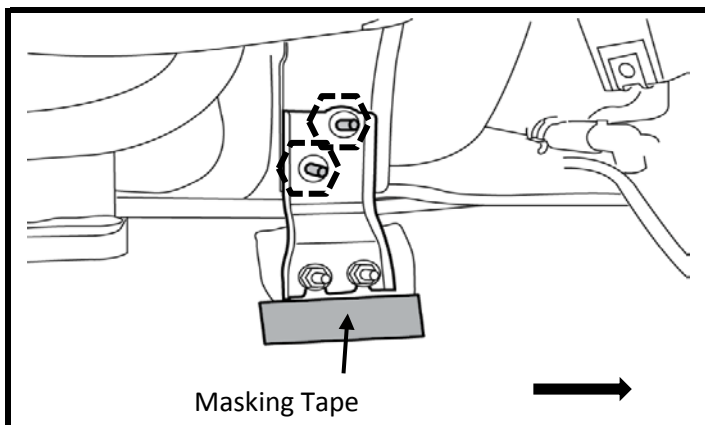
- 3.12 Remove Instrument Panel RH.

- Please see clips & Guides locations of the above trim

Clips



Guides



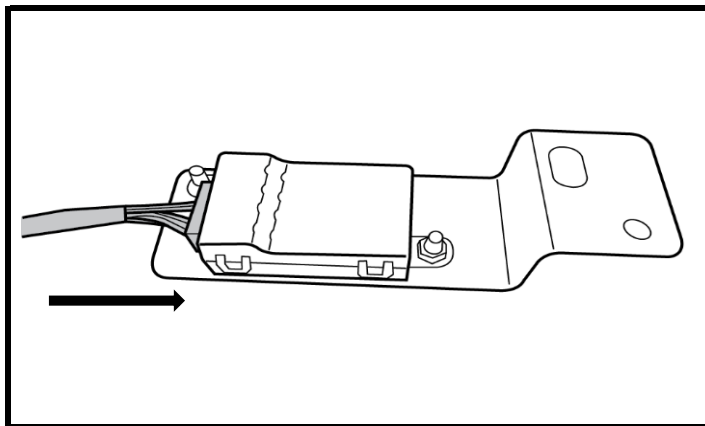
- 3.13 Remove Pre-existing Nuts on Passenger Side.

- Use a 10 mm socket to remove the shown nuts.
- NOTE: There are two sets of nuts on the passenger side Sill, remove the upper set.
- Apply Masking tape to the edge of Carpet as shown, to prevent screws from falling in.

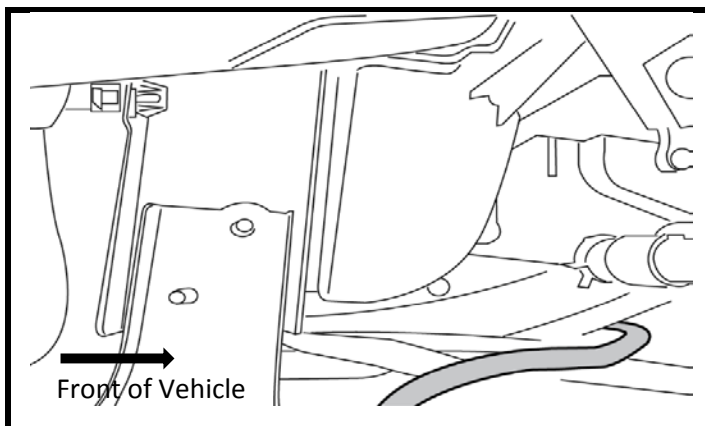
Nuts



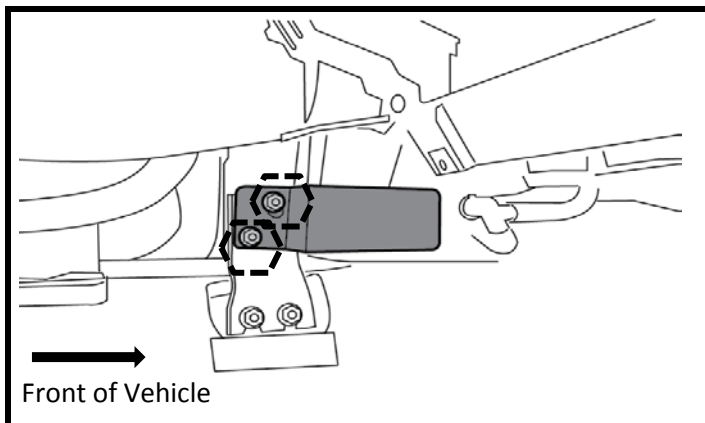
SECTION 4 - Harness Routing



4.1) Connect Impact Sensor Harness to Impact Sensor Module.

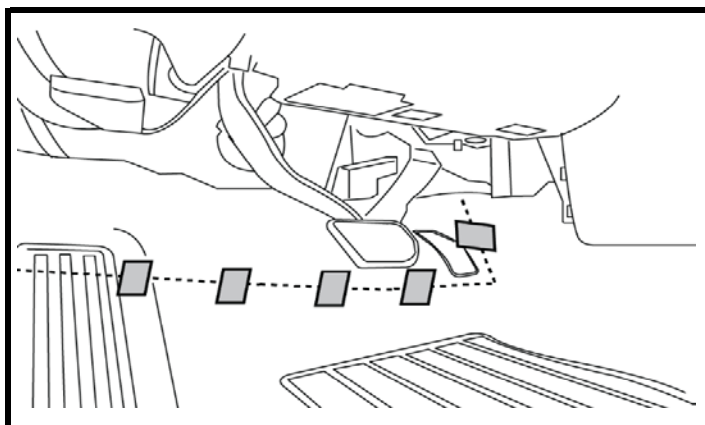


4.2) Secure Impact Sensor Assembly.
a) Before Securing Impact Sensor Assembly, route harness from passenger side through the center to the driver side.



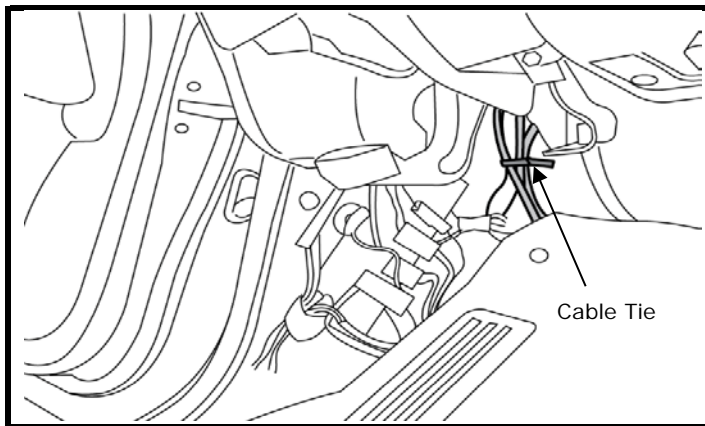
4.3) Secure Impact Sensor Assembly.
a) Secure Impact Sensor Assembly to vehicle bracket with previously removed nuts. Torque nuts down using between 8-12(Nm) / 70 - 106(in-lbs)

Nuts



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.

! 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**



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 wire) 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 BLUE Impact Sensor lead wire to the "SECURITY" (LIGHT BLUE wire) of the ASC (AAA) as shown.
- f) Using a Posi-Tap, connect the LIGHT BLUE impact Sensor lead wire to the "HORN" (BLUE wire) of the ASC (AAA) as shown.
- g) Using a Posi-Tap, connect the WHITE Impact Sensor lead wire to the "IGN" (WHITE wire) of the ASC (AAA) as shown.

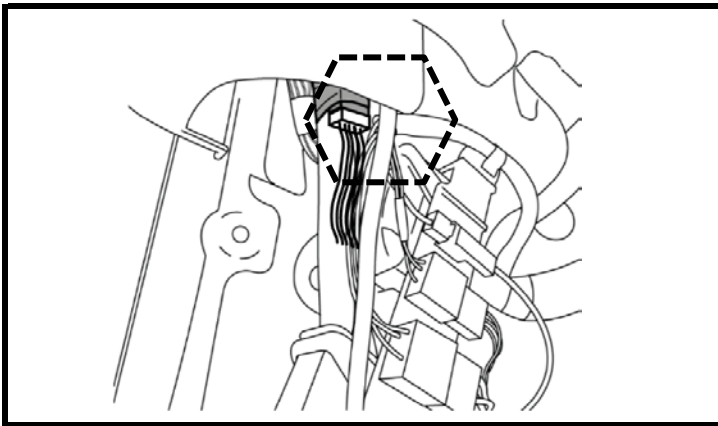
Posi Tap (D)



5.3) Connect ASC (AAA) to Impact Sensor

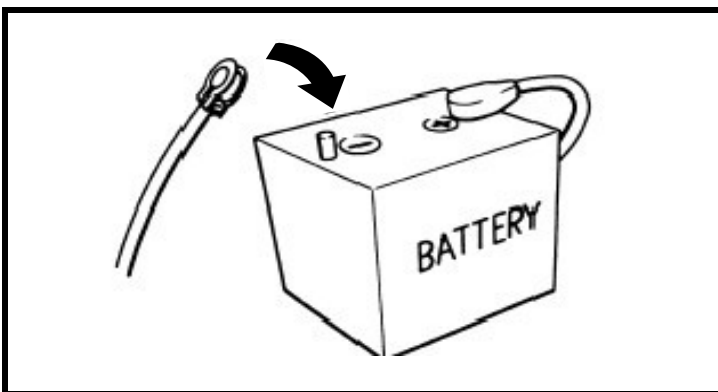
- a) Once the ASC is prepared as described in Appendix A, Impact Sensor harness with ASC attached should look like this.

SECTION 5 - Accessory Service Connector



- 5.4) Connect ASC (AAA) to Impact Sensor Module
Locate Dealer-Option white connector taped to main harness bundle

D-Opt Connector



- 5.5) Electrical function check
- Re-connect negative battery cable.
 - Turn IGNITION ON.
 - Ensure vehicle is in well lit area.

5.6) Electrical function check(Installation Mode)

- Sit inside the vehicle driver seat with all doors closed.
- Turn IGN ON & OFF.
- OPEN driver front door.
- Close Driver front door (Remain inside the vehicle)
- Lock the vehicle using the key fob.
- Wait 1 Minute.
- Lightly tap the module and Confirm the Horn chirps.
- Unlock the vehicle using Key fob & Open the driver front door to deactivate alarm.
- To confirm the vehicle alarm is triggered, Turn IGN ON and confirm the horn chirps twice.
- Turn IGN OFF.

Note: To get out of the Installation Mode, Perform the IGN ON & OFF 3 times continuously.

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.



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.

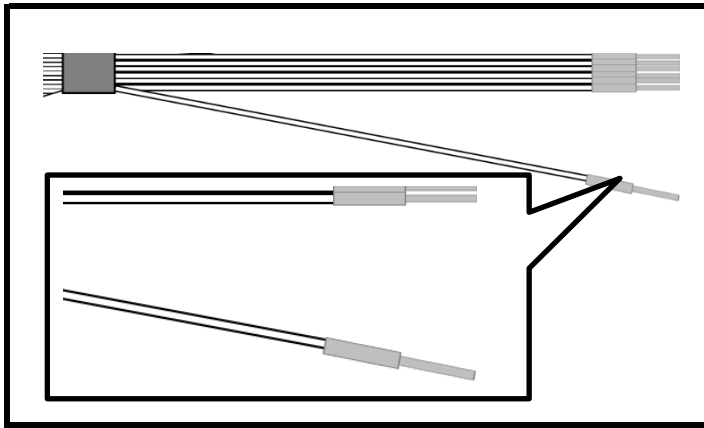
6.1) Complete checklist:

- ☐ 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
- ☐ 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.

6.2) Calibration check for Impact Sensor

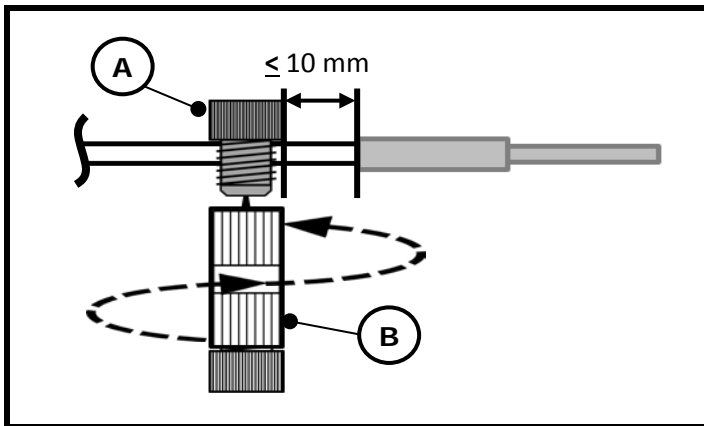
- ☐ To Check Minor Impact, Hit the Wiper on FR Windshield confirm the horn chirps once when the IGN is turned ON.
Note : Do not hit Wiper too hard.
- ☐ To check Major, Jack the vehicle to 1 Degree and confirm the Major Alarm set off. confirm the horn chirps twice when the IGN is turned ON

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.



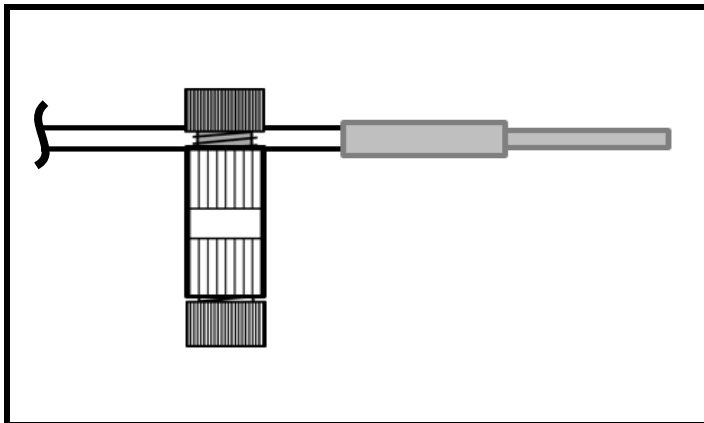
A.2) Installing Posi-Tap™ on ASC (AAA)

- 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.



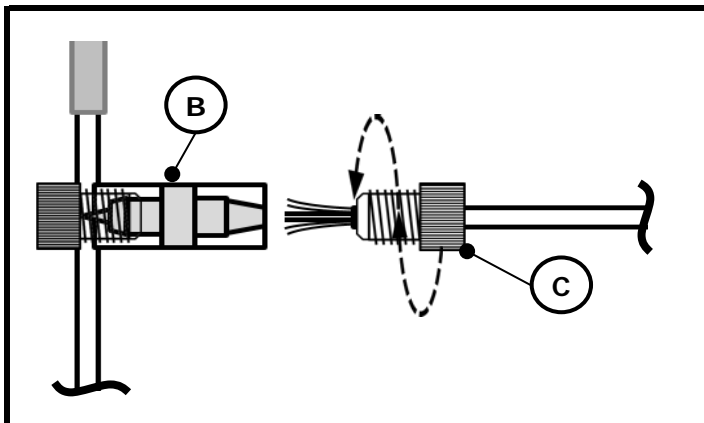
CAUTION

Do not overtighten Posi-Tap, it may damage wire



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

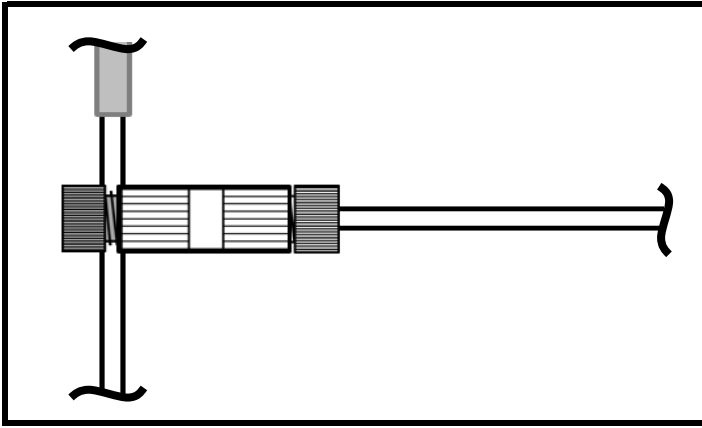
- a) Inspect Posi-Tap™ to ensure correct installation.
- b) Wire jacket should be crushed enough to maintain pressure.
- c) Confirm tap cap gap is straight and evenly spaced around perimeter.



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

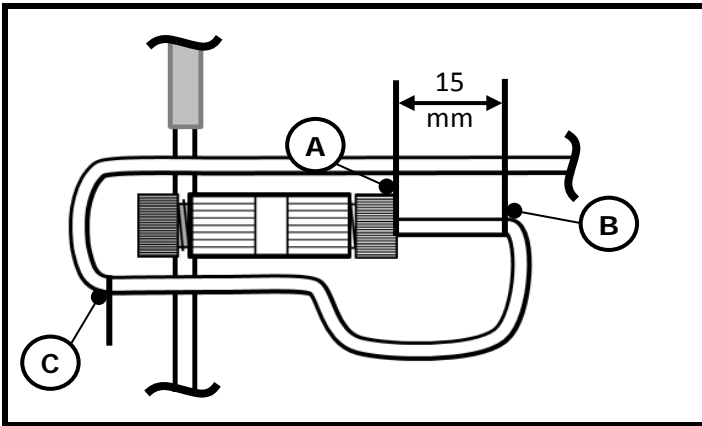
- a) Remove tap bottom (C) red side from tap body (B).
- b) Remove the pre cut insulation from correct Accessory wire.
- c) Insert wire through tap bottom (C) opening.
- d) Fan out individual wire strands as shown.
- e) Insert wire into tap body until it bottoms out.
- f) Turn tap bottom (C) clockwise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

APPENDIX A - Posi-Tap Procedure



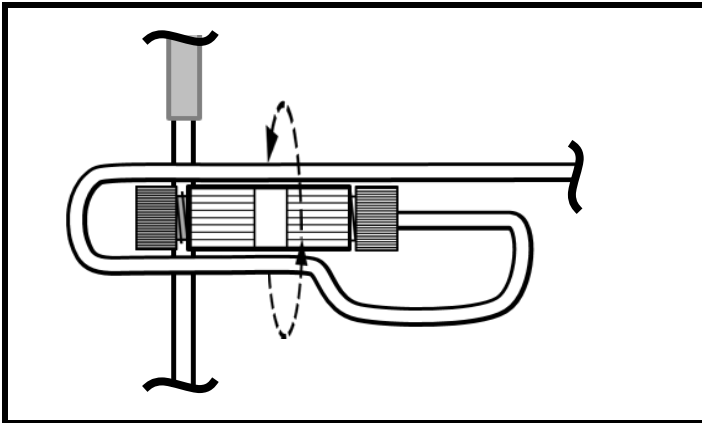
A.5) Installing accessory wire into Posi-Tap™

- a) Confirm tap bottom gap is straight and evenly spaced around perimeter
- b) Gently pull on wire to confirm secure connection.



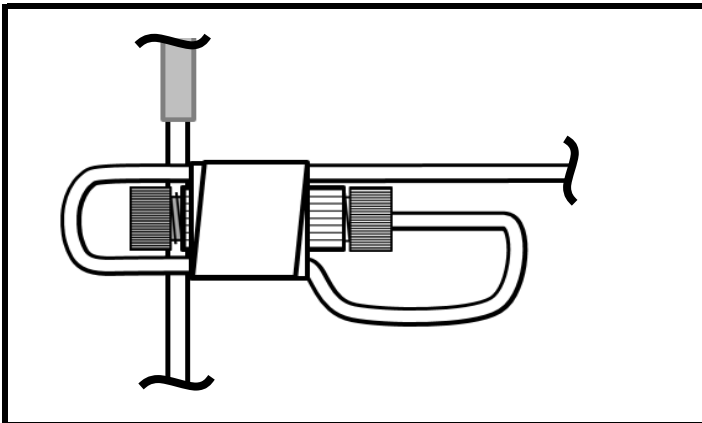
A.6) Accessory wire strain relief

- 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).



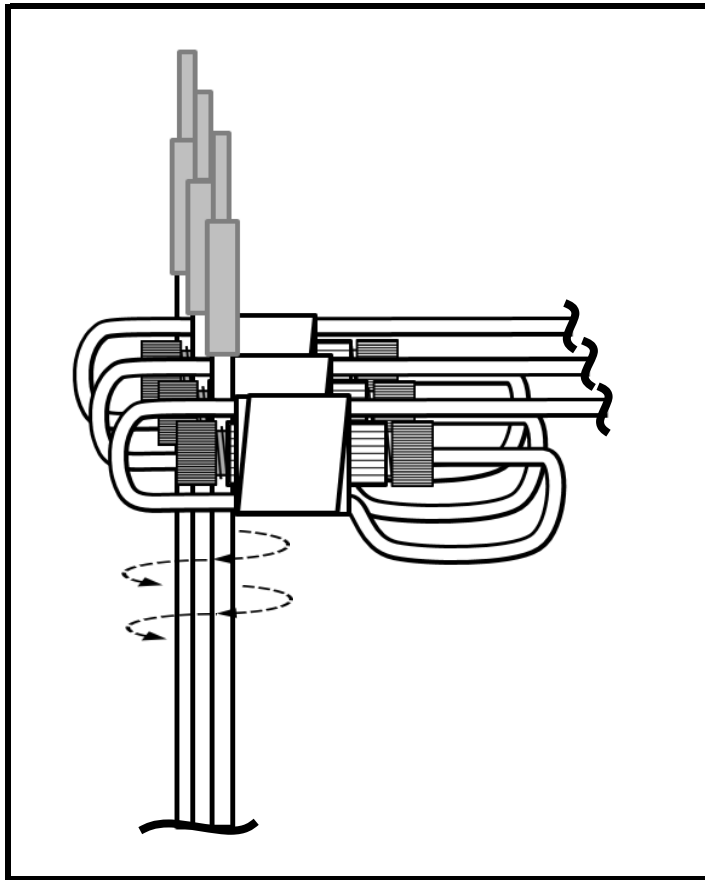
A.8) Accessory wire strain relief

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

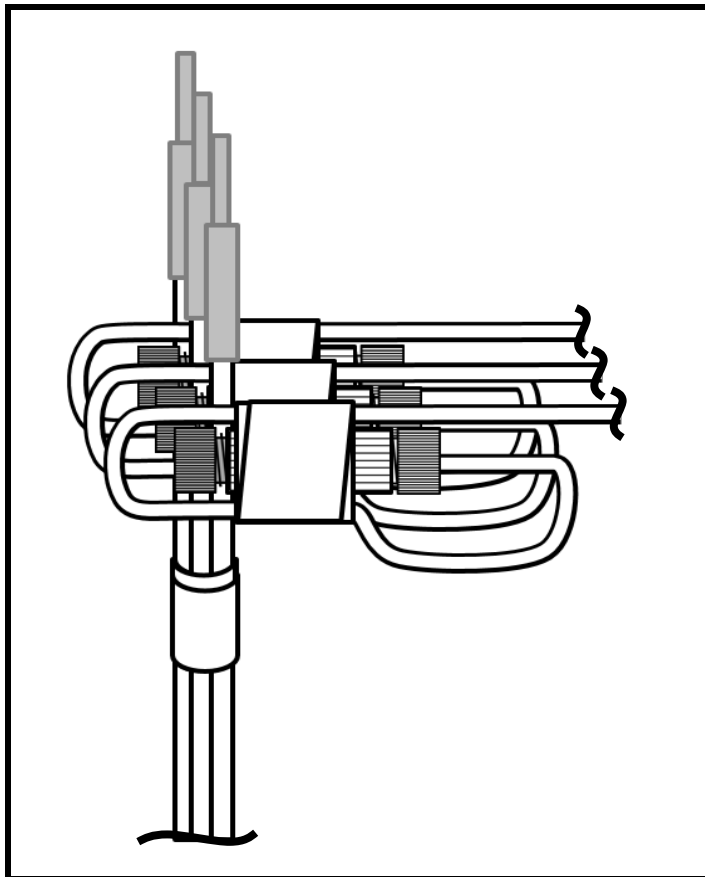
A.9) Accessory wire strain relief

- a) Repeat steps A.1 - A.8 for all other wires requiring a Posi-Tap™.

APPENDIX A - Posi-Tap Procedure

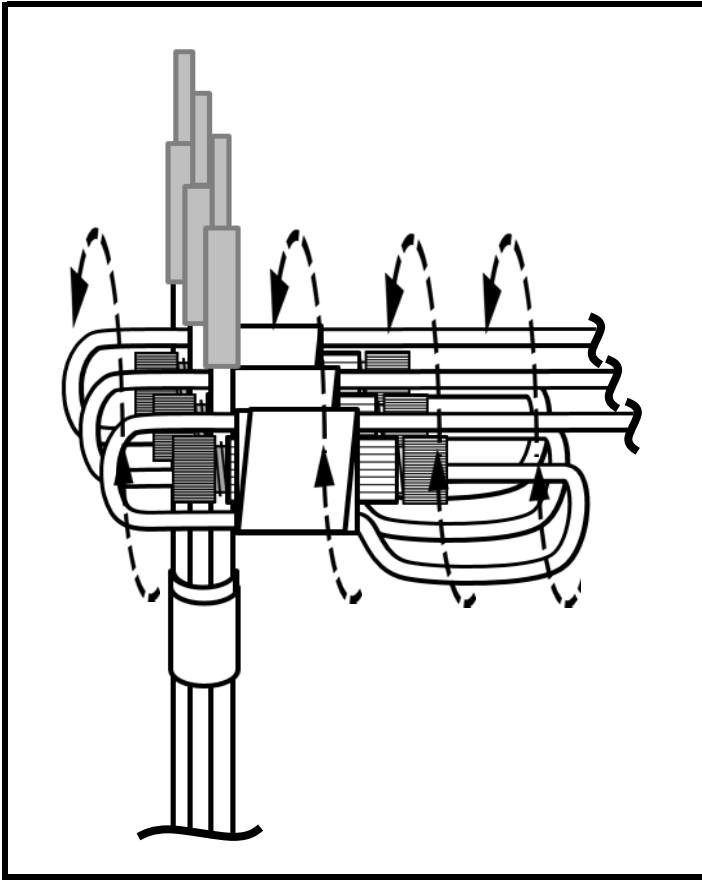


- A.10) Securing multiple Posi-Taps™ together
- a) Stack Posi-Taps™ in slightly staggered fashion as shown.
 - b) Secure tapped circuits together with electrical tape (≥ 2 revolutions).

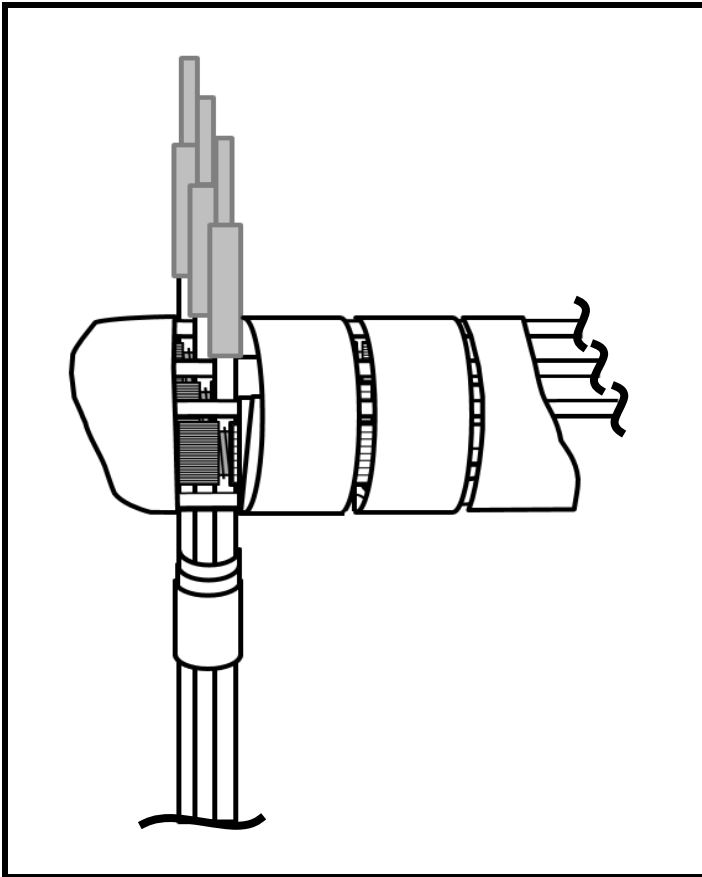


- A.11) Securing multiple Posi-Taps™ together
- a) Once tapped circuits are secured together with electrical tape they should look as shown.

APPENDIX A - Posi-Tap Procedure

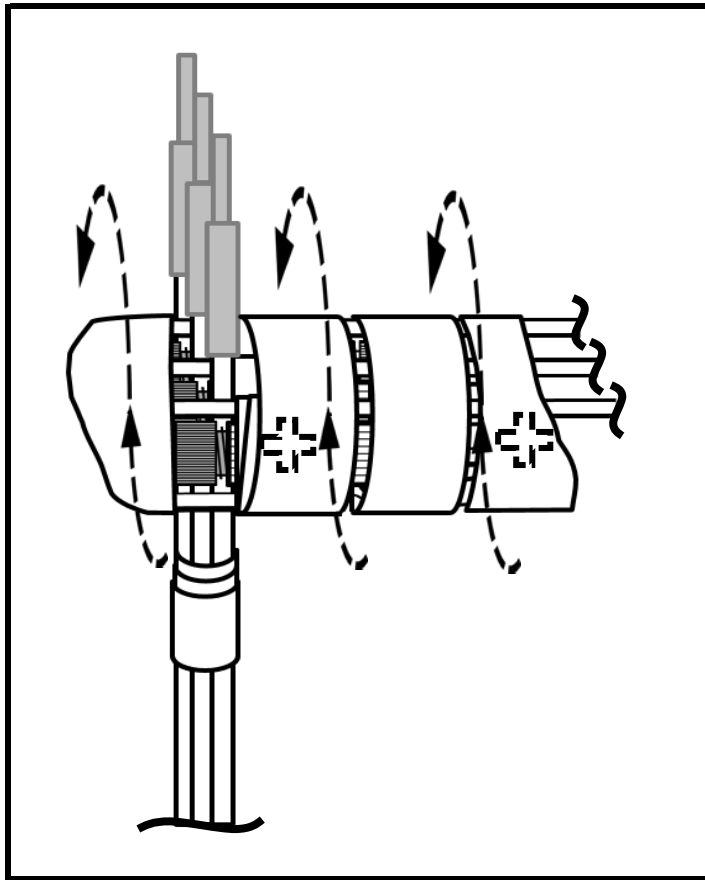


- A.12) Securing multiple Posi-Taps™ together
a) Secure Posi-Taps™ together with electrical tape (≥ 4 revolutions).



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

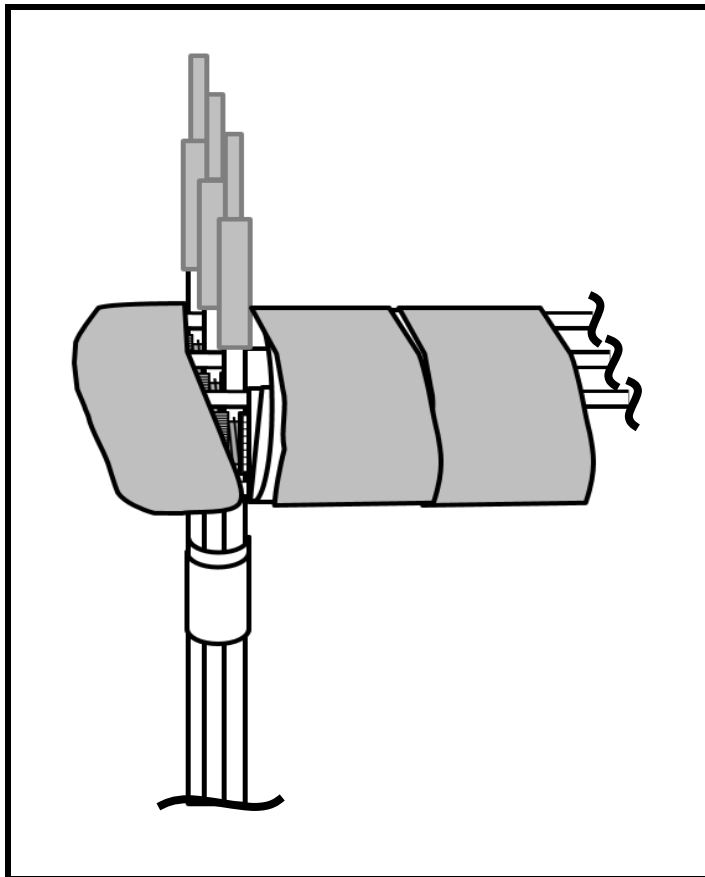
APPENDIX A - Posi-Tap Procedure



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)

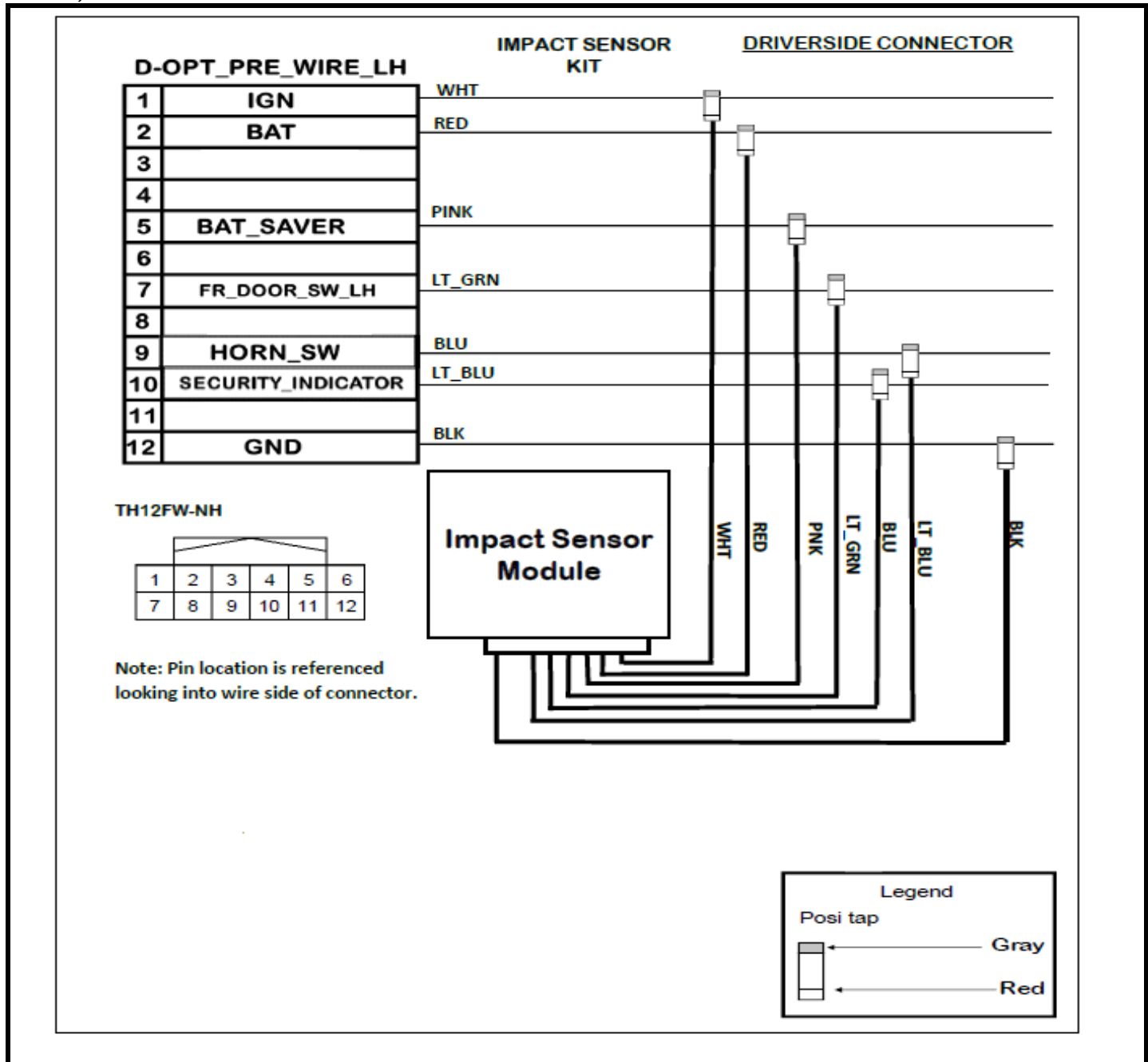


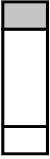

A.15) Securing multiple Posi-Taps™ together

- 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	LEGEND	
CONNECTOR NAME		ACCESSORY SERVICE CONNECTOR	POSI-TAP  GRAY - CIRCUIT TAP (PIERCE) SIDE RED - ACCESSORY (INSERT) SIDE	
CONNECTOR COLOR		WHITE		
UNIT			Note: Pin location is referenced looking into harness side of connector with lock tab oriented as shown.	

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