



GENUINE PARTS

INSTALLATION INSTRUCTIONS

DESCRIPTION: Impact Sensor Gen II Kit

APPLICATION: Altima

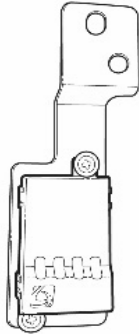
PART NUMBER(S) T99M2 6CA1A, Impact Sensor Gen II Kit

REQUIRED FOR

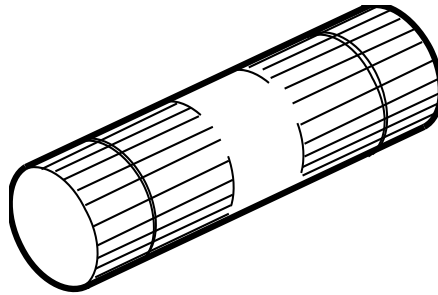
INSTALLATION: T99F6 4RA0A , Accessory Service Connector - not included in kit above

KIT CONTENTS: Impact Sensor Gen II Kit

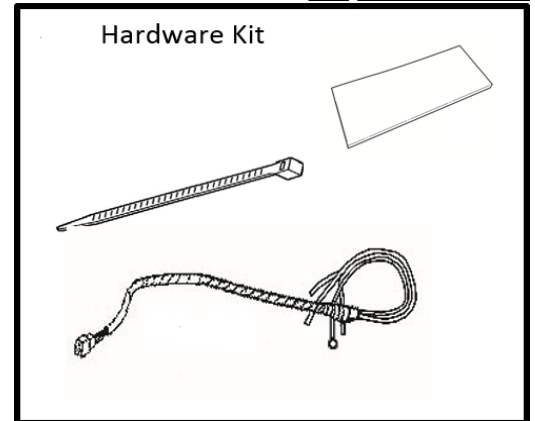
A



B



C



D



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 ASSIST 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 6CA1A, Impact Sensor Gen II Kit
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 Assembly	Not Serviceable- Parts of kit- T99F6 4RA0A
B	7	Posi-Tap	
C	1	Hardware Kit	
	1	Impact Sensor Harness	
	8	Cable Tie	
	8	Urethane Foam Tape	
D	1	Quick Reference Card	
E	1	Installation Instruction Website Address	

TOOLS REQUIRED:

- Trim Stick (Nylon)
- 1/4" Drive 13mm Socket
- 8 mm Ratcheting Wrench
- Short 1/4" Ratchet Driver
- Standard #2 Phillips Screw Driver
- Short #2 Phillips Screw Driver
- Torx Screwdriver

INSTALLATION CAUTIONS:



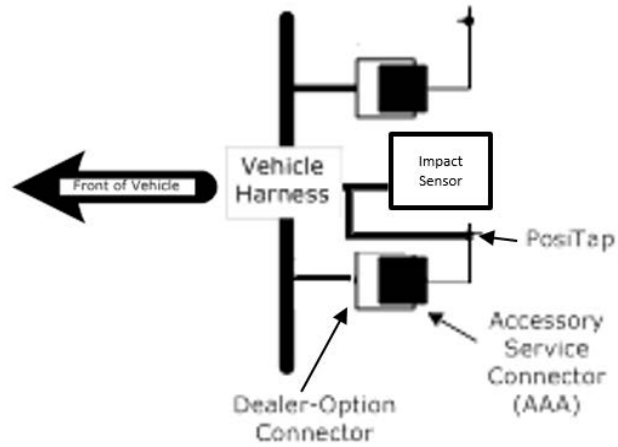
CAUTION

- 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 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 sequence directed. Improper procedure can damage parts.
- Take care not to scratch or damage any component during removal or re-installation process.
- Trim pieces found to have witness marks or broken clips ARE NOT to be reinstalled.
- Store removed parts in safe manner.
- If problem occurs during installation, please contact Nissan dealer where product was purchased.

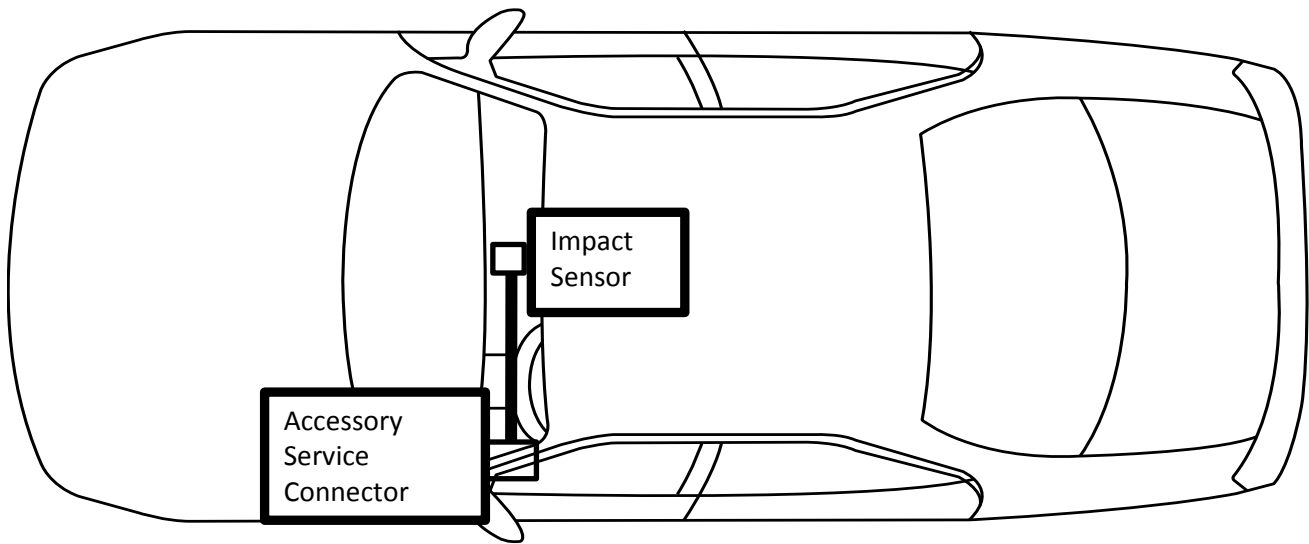
SECTION 1 - OVERVIEW

1.1) SYSTEM

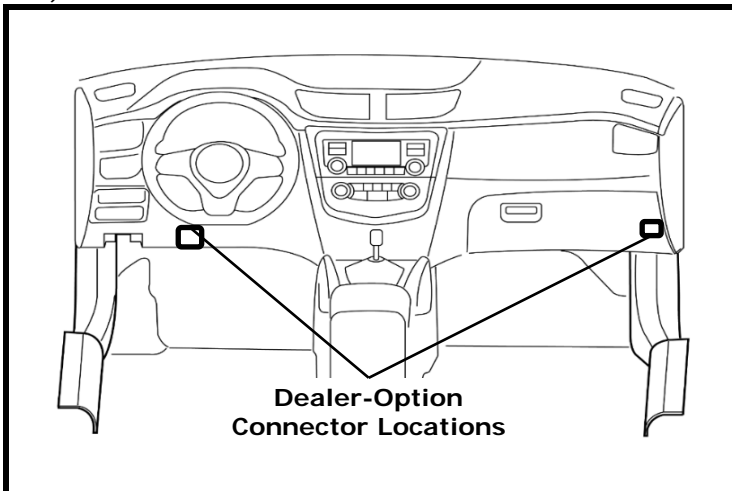
System Block Diagram



1.2) VEHICLE



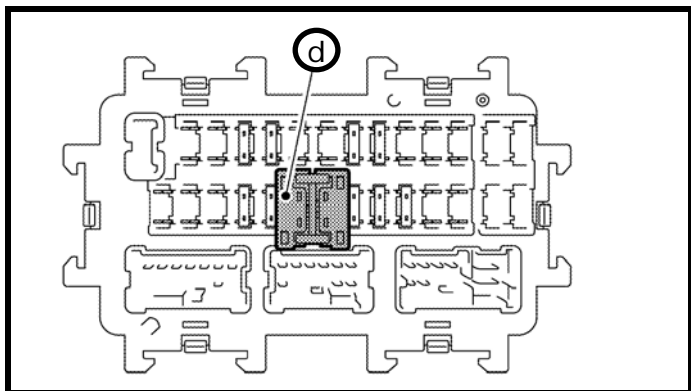
1.3) D-OPT CONNECTOR LOCATION



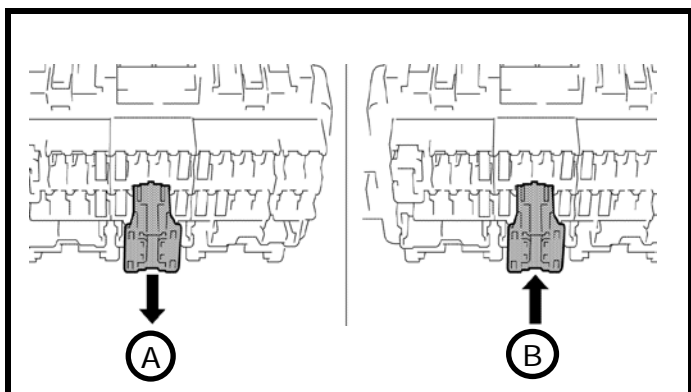


CAUTION

- 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 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.

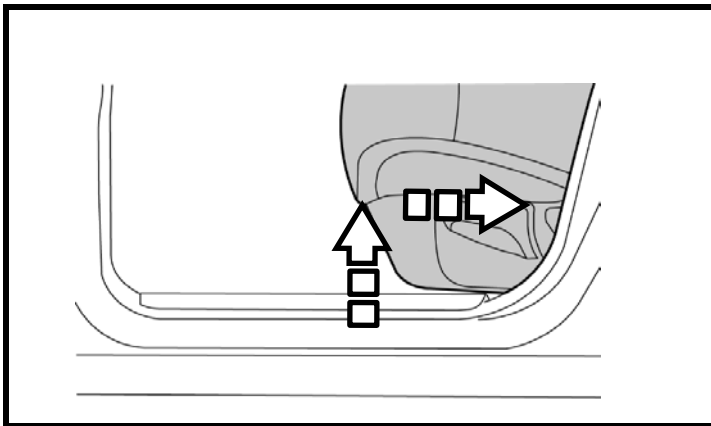
Condition	Switch Position	Note
Vehicle is delivered to the dealer	Transit (OUT)	
Vehicle is being stored at the dealer	Transit (OUT)	
Vehicle is delivered to customer	Customer (IN)	

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

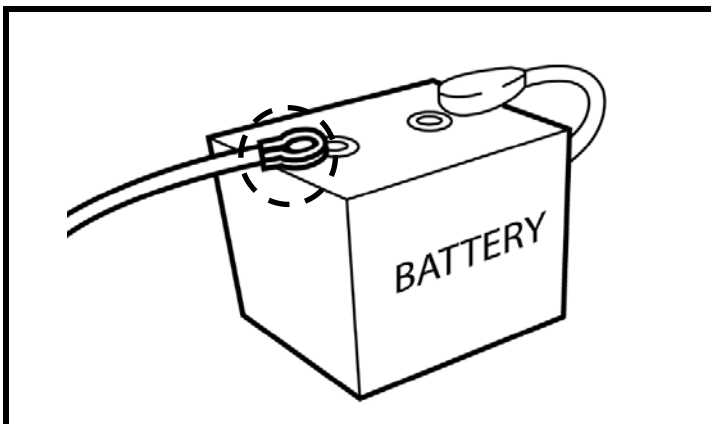
Preset	1	2	3	4	5	6	7	8	9	10

- c) Place ignition in "OFF" mode.

SECTION 2 - VEHICLE PREPARATION



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



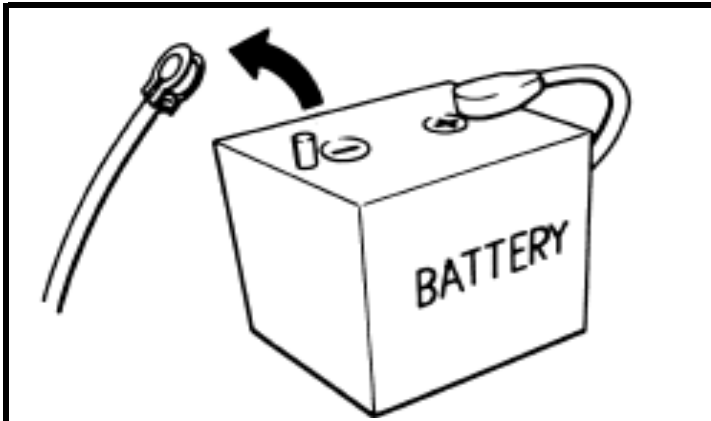
- 2.5) Disconnect battery terminal
- Locate negative battery terminal
 - Loosen nut with 10mm socket.

Battery Terminal Nut



CAUTION

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

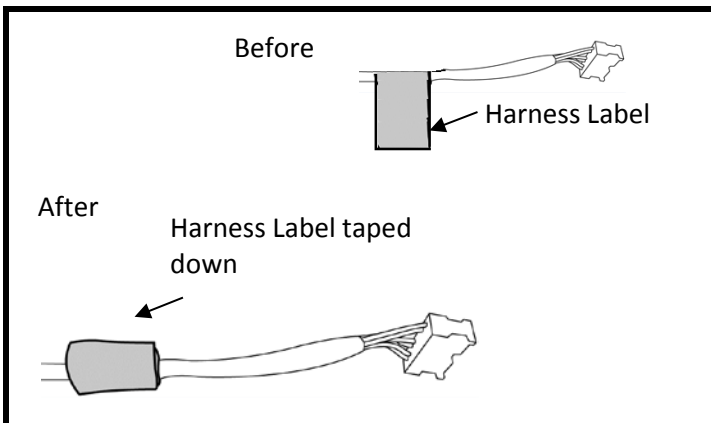


- 2.6) Disconnect battery terminal
- Lift negative battery terminal off stud.
 - Isolate negative battery terminal.



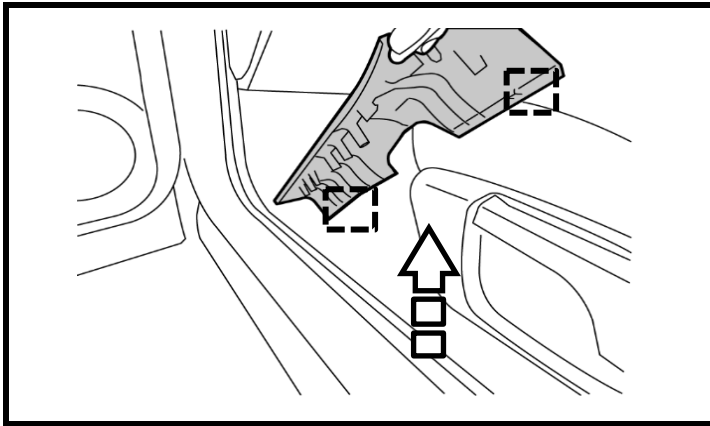
CAUTION

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



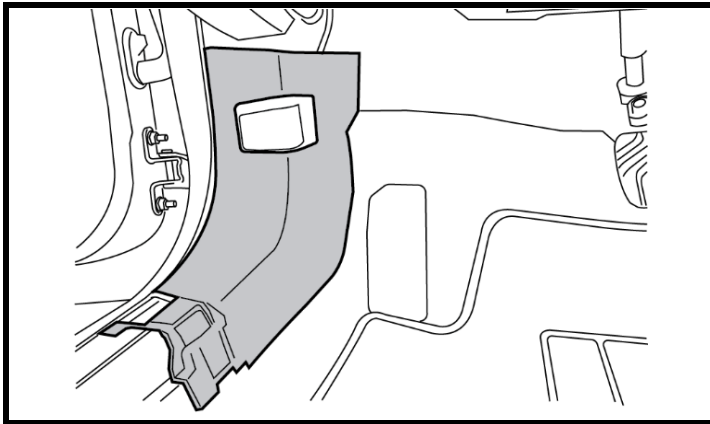
- 2.7) Harness preparation
- To prevent squeak and rattle, wrap label on harness around harness and secure down with tape.

SECTION 3 - TRIM REMOVAL (FRONT LEFT HAND)

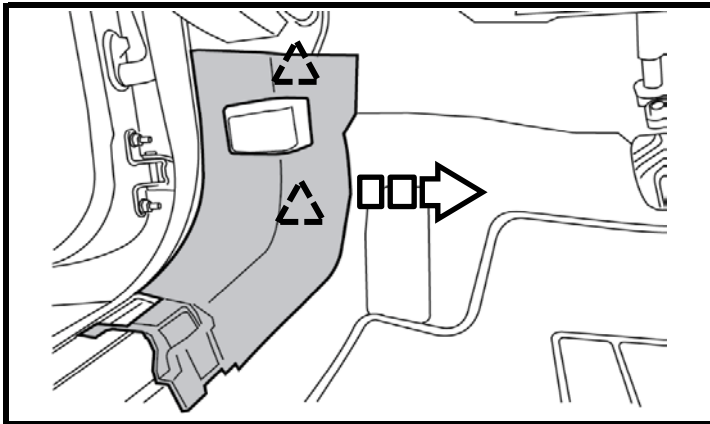


- 3.1) Remove LH Trim
 - a) Disengage lower trim clips by pulling toward interior.
 - b) Lift sill plate up and out, as shown.

Trim Clip



- 3.2) Remove LH Trim
 - a) Locate LH lower kick trim.

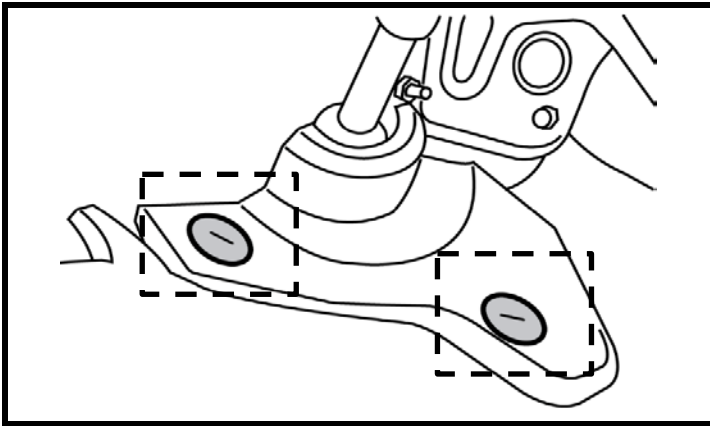


- 3.3) Remove LH Trim
 - a) Disengage lower kick trim pawl by pulling toward interior of vehicle, as shown.

Pawl

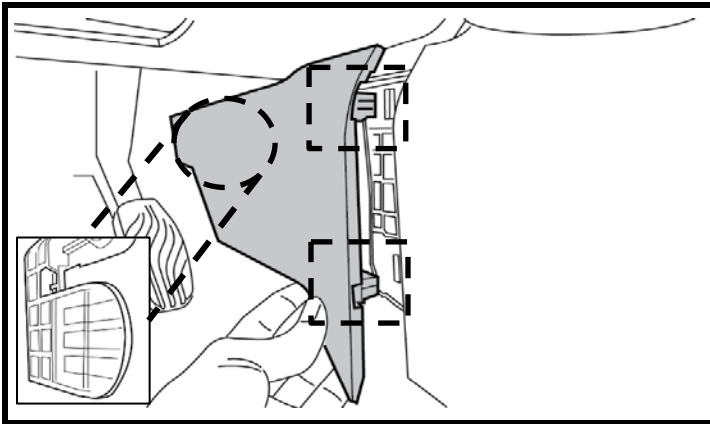


SECTION 3 - TRIM REMOVAL (FRONT LEFT AND RIGHT HAND)



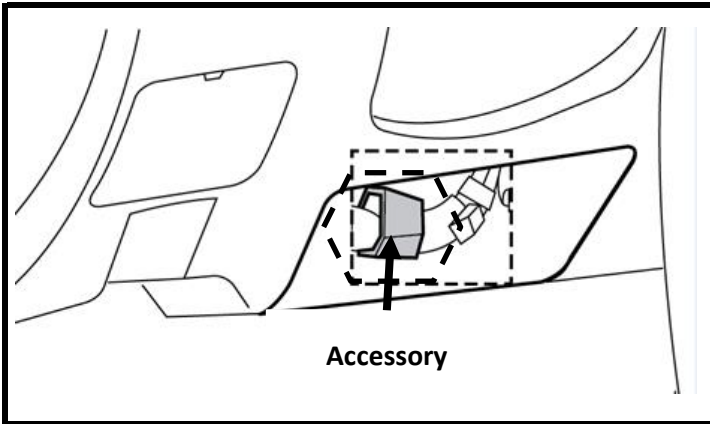
- 3.4) Remove LH Steering Column Trim
- a) Disengage lower trim clips with Trim Stick (Nylon) by pulling upwards.
 - b) Lift sill plate up and out, as shown.

Trim Clip



- 3.5) Remove LH Trim
- a) Carefully pry out center footwell panel from driver side of center console.
 - b) Pull out at center and slide to rear.
 - c) Ensure front retainer clip stays with panel

Trim Clip

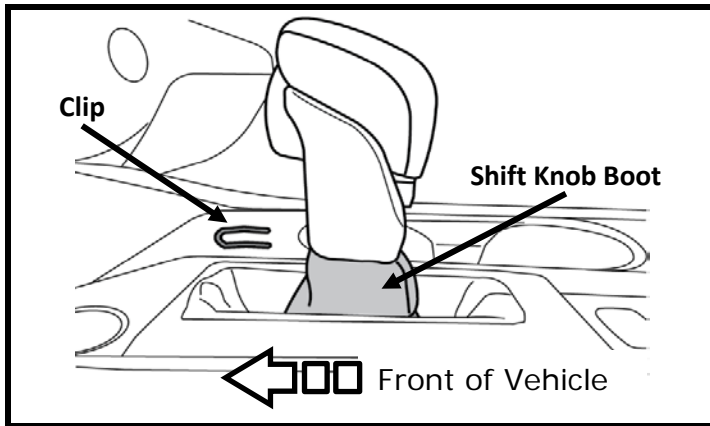


- 3.6) Locate LH D-Opt connector
- a) Locate Dealer-Option connector taped to main harness bundle under the steering column near the OBD connector.

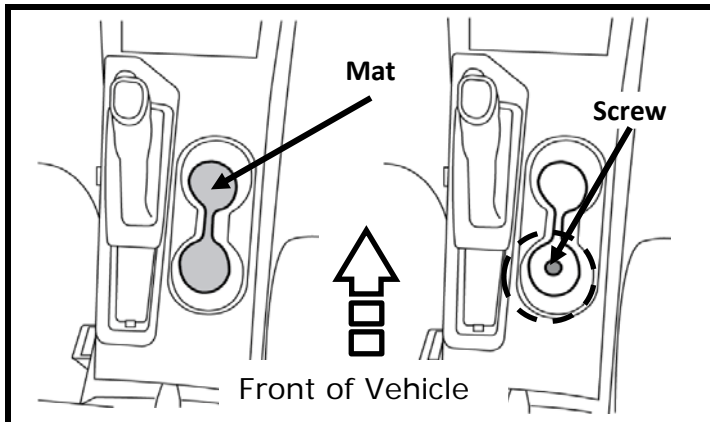
D-Opt Connector



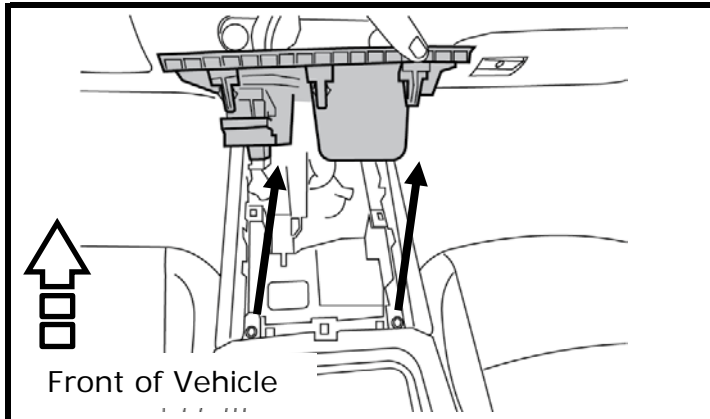
SECTION 4 - TRIM REMOVAL (CENTER CONSOLE FINISHER)



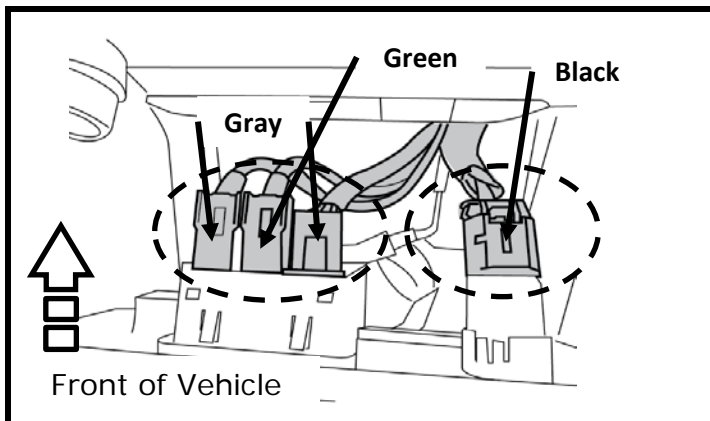
- 4.1) Remove gear selector knob.
 - a) With shift lever in neutral position, use nylon pry tool to release finisher ring at bottom of shift knob and push boot down.
 - b) Remove retaining clip holding shifter knob to selector lever, as shown.
 - c) Lift shift knob upward to remove and reinstall clip with bend upward. Set shift knob aside.



- 4.2) Console Finisher Removal
 - a) Remove rubber mat from cup holder.
 - b) Using #2 Phillips Screw Driver remove screw from rear Cup Holder.



- 4.3) Console Finisher Removal
 - a) Using Nylon Trim stick, begin at rear of console finisher and remove clips (if any) on console finisher.
 - b) Tilt finisher towards front and pull back carefully to remove as shown.



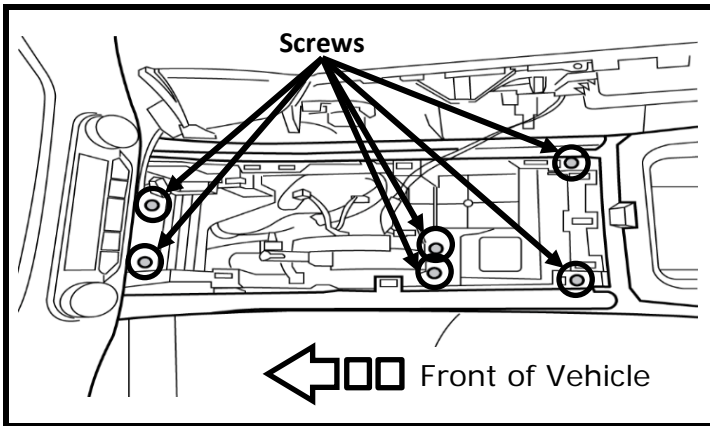
- 4.4) Disconnect all harnesses from console finisher.
 - a) Disconnect 2 Gray and 1 Green USB connector from socket and set aside, as shown.
 - b) Disconnect Black connector from socket and set aside, as shown.
 - c) Disconnect any other connectors (A/T shifter, I-key, P-Brake, etc.) under console. Do not try to disconnect clip holding harness.



CAUTION

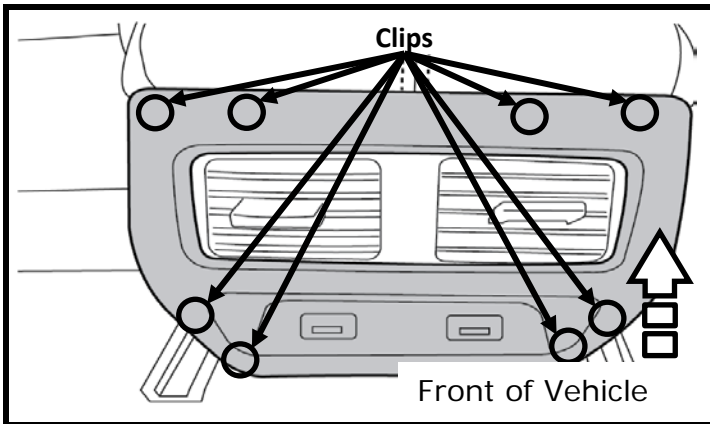
Set console finisher aside carefully with harness clip connected to center console.

SECTION 4 - TRIM REMOVAL (CENTER CONSOLE FINISHER)



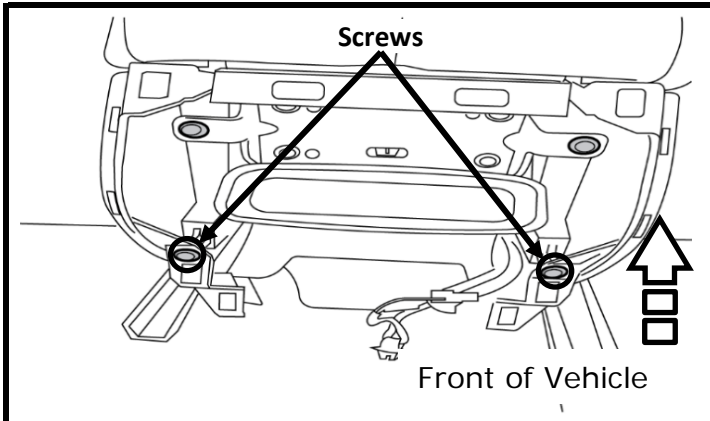
4.5) Console Finisher Removal

- a) Remove 6 screws from the center console, using Standard #2 Phillips Screw Driver.



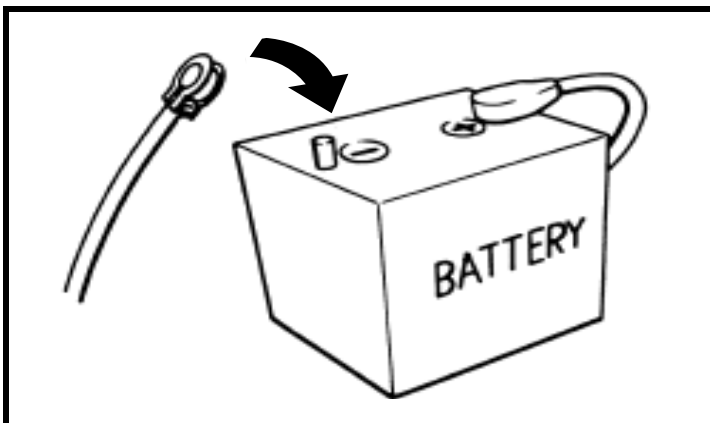
4.6) Rear Console Finisher Removal.

- a) Starting from top of console using trim removal tool, remove console at eight clip locations.



4.7) Rear Console Finisher Removal.

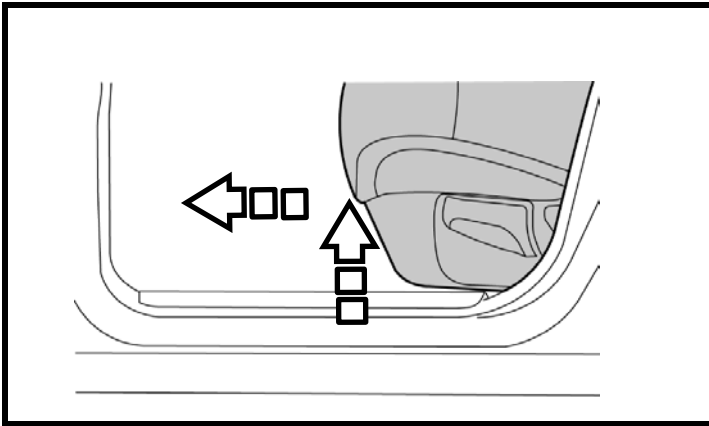
- a) Remove 2 screws from the center console, using Short #2 Phillips Screw Driver, as shown



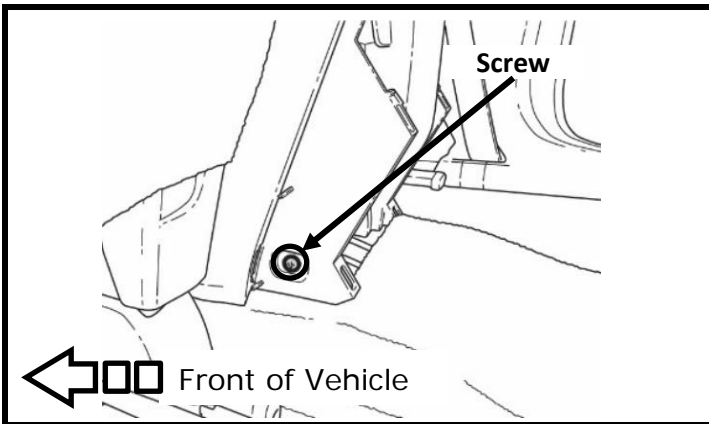
4.8) Battery Connection

- a) Re-connect negative battery cable

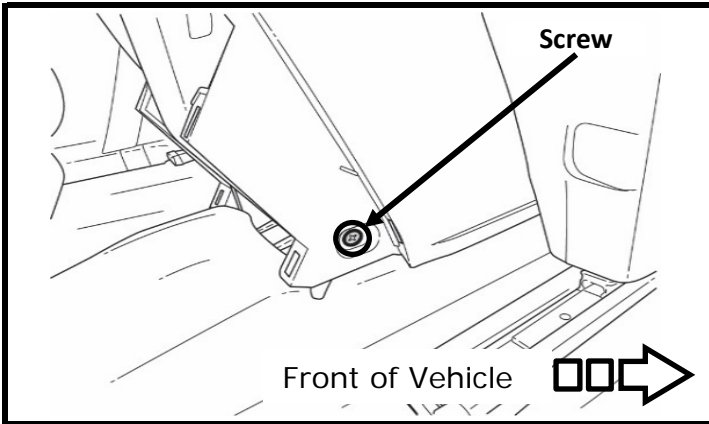
SECTION 4 - TRIM REMOVAL (CENTER CONSOLE FINISHER)



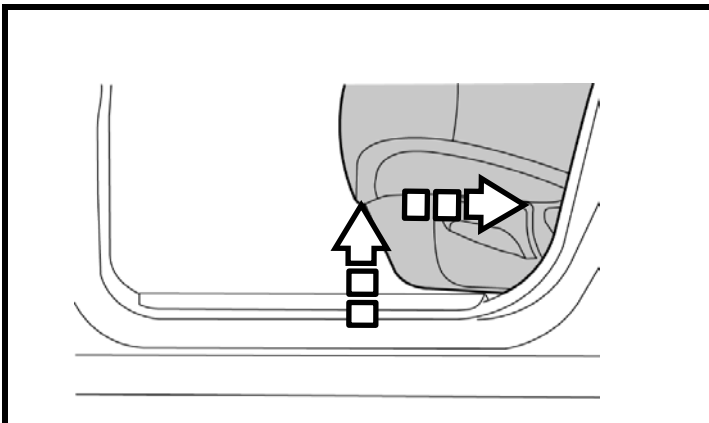
- 4.9) Move Seats
a) Move front seats to full upward and forward position.



- 4.10) Rear Console Finisher Removal.
a) Remove screw from the center console LH, using 8 mm Ratcheting Wrench, as shown

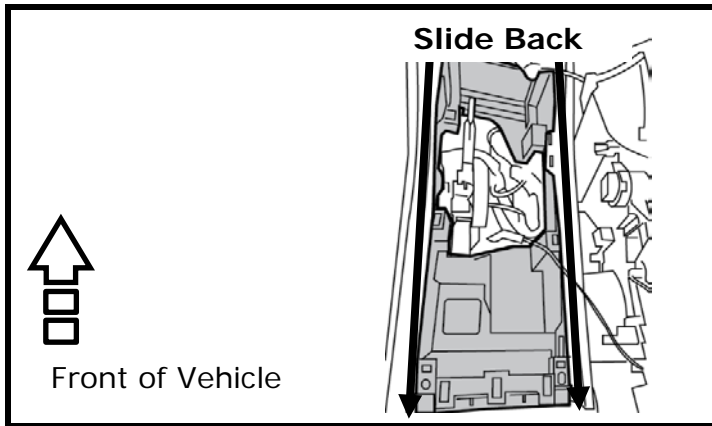


- 4.11) Rear Console Finisher Removal.
a) Remove screw from the center console RH, using 8 mm Ratcheting Wrench, as shown

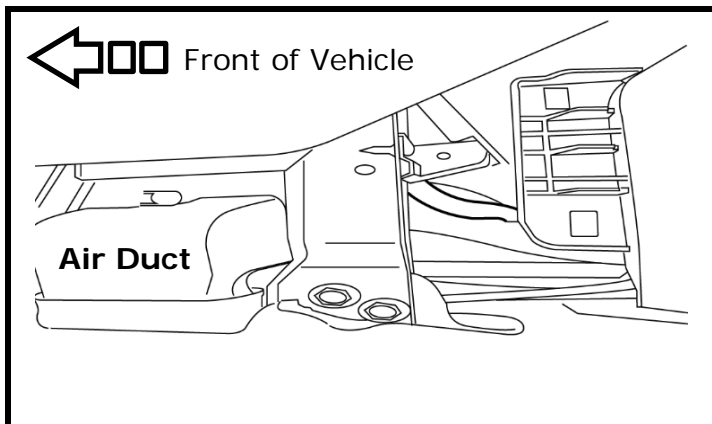


- 4.12) Move Seats.
a) Move both front seats to full upward and rearward position.

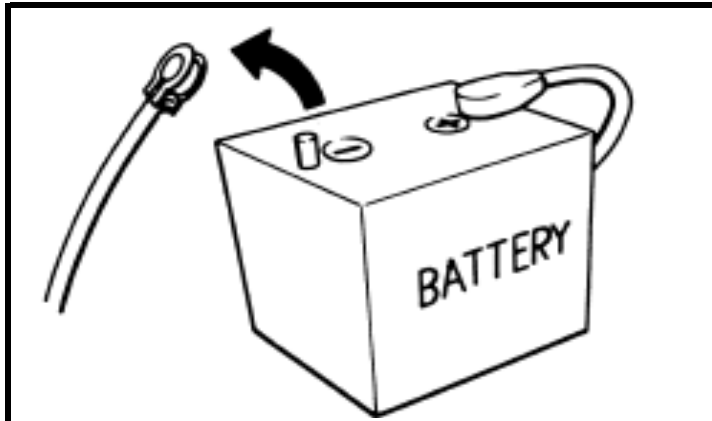
SECTION 4 - TRIM REMOVAL (CENTER CONSOLE FINISHER)



- 4.13) Rear Console Finisher Removal.
- Slide the center console finisher back.
 - Drop center console down before sliding back.
 - Slightly lift center console up, and Slide back approximately 2 inches.



- 4.14) LH Air Duct Vent Removal .
- Pull top of duct out and up.



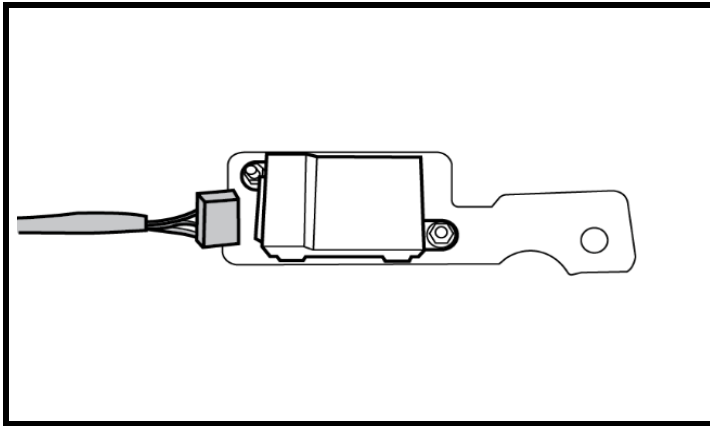
- 4.15) Disconnect battery terminal
- Lift negative battery terminal off stud.
 - Isolate negative battery terminal.



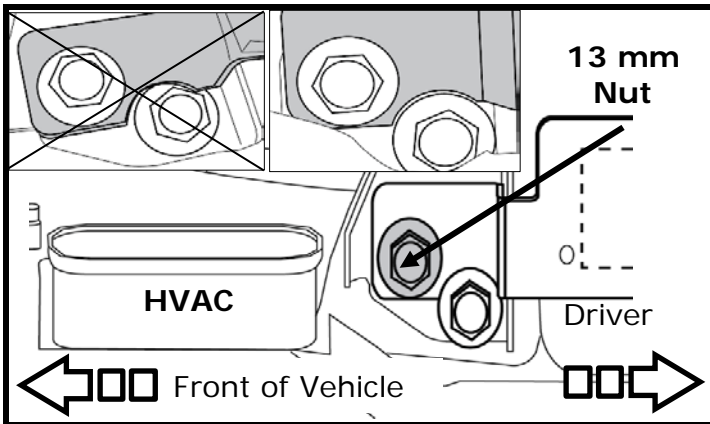
CAUTION

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

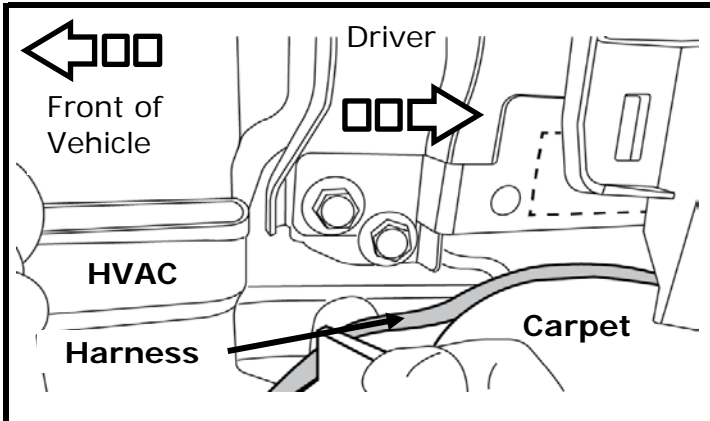
SECTION 5 - INSTALLATION PROCEDURE (IMPACT SENSOR ASSEMBLY)



- 5.1) Impact Sensor Connection
 - a) Connect Harness provided in hardware kit (C) to Impact Sensor Assembly (A).
 - b) Press firmly, listen for "Click" and give a slight tug to check for ALL connections.



- 5.2) Secure Impact Sensor Assembly.
 - a) Use 13 mm Socket to remove top Nut, as shown
 - b) Align Impact sensor Flat on Vehicle bracket, ensure bracket is straight and radius seat on curvature of the washer, as shown.
 - c) Carefully torque down top Nut between 8-12 Nm.

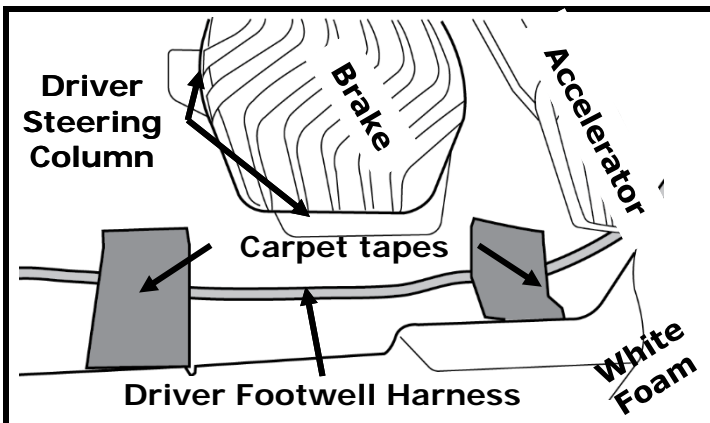


- 5.3) LH Side Harness Routing
 - a) Pull carpet back & route the harness from Impact Sensor Assembly (A) to underneath the carpet, as shown



CAUTION

- Secure harness as needed every 200mm with Foam tape.



- 5.4) LH Side Harness Routing
 - a) Secure harness with tape under the carpet using carpet tapes to hold the harness in place under the carpet while routing harness to Impact Sensor Assembly (A), as shown
 - b) Route the harness to front of center console



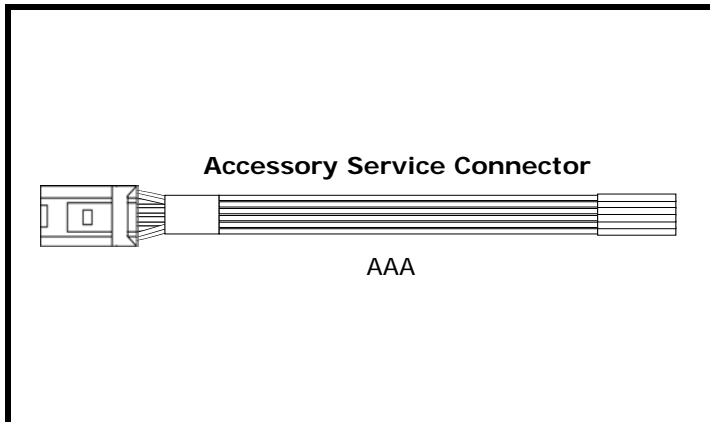
CAUTION

- Secure harness as needed every 200mm with Foam tape.

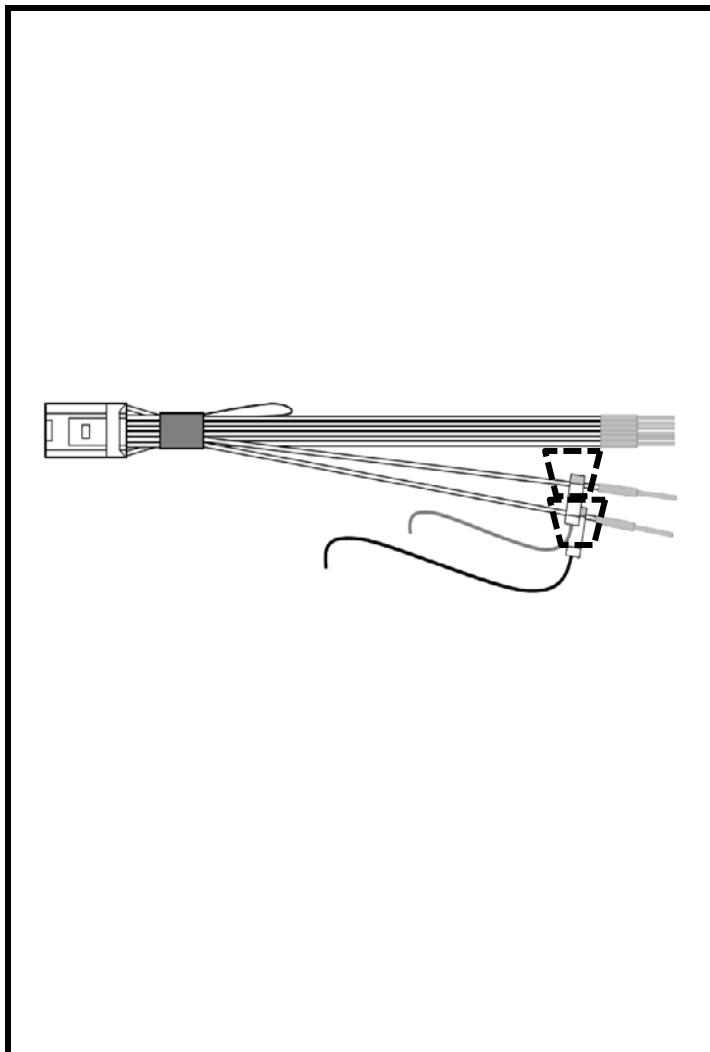


CAUTION

- **Accessory Service Connector is for use ONLY with Genuine Nissan (or Infiniti) or Nissan (or Infiniti) approved accessories. Use of this connector with non Genuine Nissan (or Infiniti) or Nissan (or Infiniti) approved accessories or failure to follow installation instructions for said connector being mentioned herein may result in damage to accessory and/or your vehicle.**
- **Nissan/Infiniti is not liable for loss or damage due to improper installation or installation of non Genuine or non approved accessories.**



- 6.1) Connect ASC (AAA) to Impact Sensor Kit (ISK), Front LH
 - a) For detailed directions, see Appendix A - Posi-Tap Procedure.
 - b) Additional circuit information is in Appendix B - Mechanization Drawing.

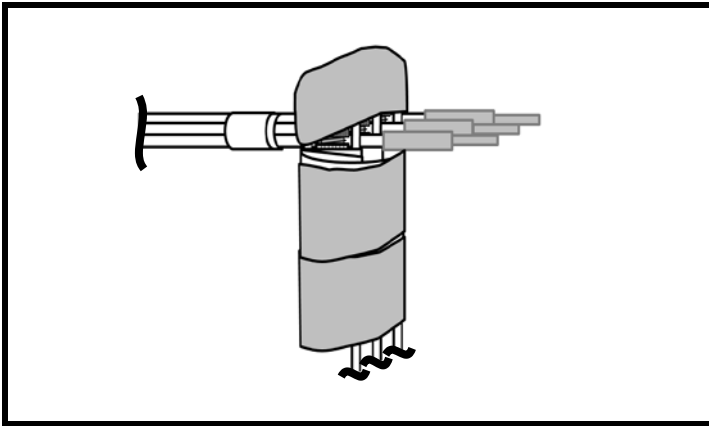


- 6.2) Connect ASC (AAA) to Impact Sensor Kit (ISK), Front LH
 - a) Using a Posi-Tap (B), connect **WHITE** Impact Sensor lead wire to "**IGN**" (**WHITE wire**) of ASC (AAA), as shown.
 - b) Using a Posi-Tap (B), connect **RED** Impact Sensor lead wire to "**BAT**" (**RED wire**) of ASC (AAA), as shown.
 - c) Using a Posi-Tap (B), connect **BLACK** Impact Sensor lead wire to "**GND**" (**BLACK wire**) of ASC (AAA), as shown.
 - d) Using a Posi-Tap (B), connect **PINK** Impact Sensor lead wire to "**BAT_SAVER**" (**ORANGE wire**) of ASC (AAA), as shown.
 - e) Using a Posi-Tap (B), connect **LT GREEN** Impact Sensor lead wire to "**FR DOOR SW**" (**LT GREEN wire**) of ASC (AAA), as shown.
 - f) Using a Posi-Tap (B), connect **BLUE** Impact Sensor lead wire to "**SECURITY**" (**BLUE wire**) of ASC (AAA), as shown.
 - g) Using a Posi-Tap (B), connect **LT BLUE** Impact Sensor lead wire to "**HORN**" (**LT BLUE wire**) of ASC (AAA), as shown.

Posi-tap™ (B)

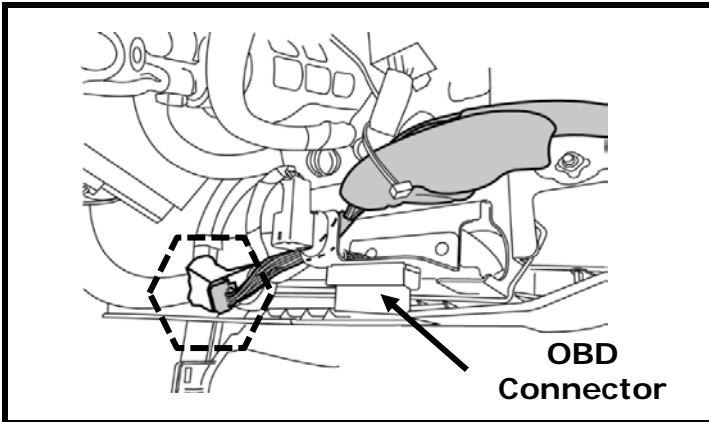


SECTION 6 - ASC CONNECTION & FUNCTION CHECK (ACCESSORY SERVICE CONNECTOR)



6.3) Connect ASC (AAA) to Impact Sensor Kit (ISK), Front LH

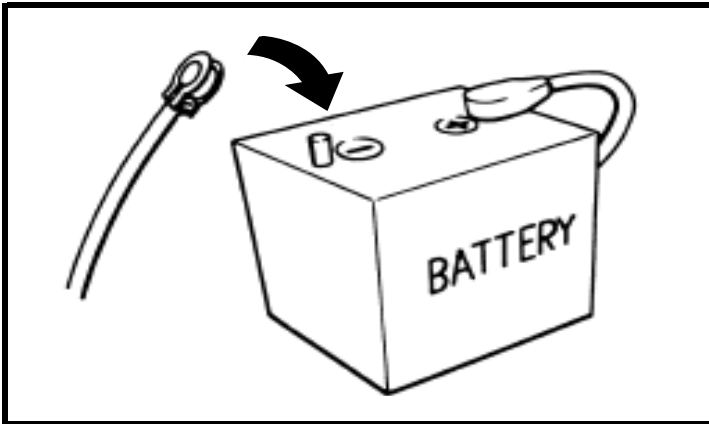
- a) Once ASC is prepared as described in Appendix A, Impact Sensor harness with ASC attached should be, as shown.



6.4) Connect ASC (AAA) to Impact Sensor Kit (ILK), Front LH

- a) Plug LH ASC into LH D-Opt connector.

D-Opt Connector



6.5) Electrical function check

- a) Re-connect negative battery cable



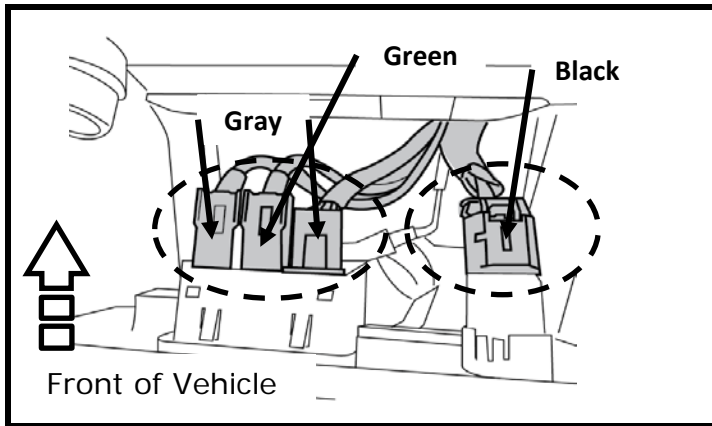
CAUTION

• When diagnosing electrical system problems, first disconnect accessory connector (AAA) and note effect on system. Continue investigation with accessory connectors disconnected. Remember to reconnect accessories when investigation is complete.

6.6) Electrical function check

- A) Sit inside vehicle driver seat with all doors and hood & trunk closed (With Vehicle in Park).
- B) Turn IGN ON (Engine OFF)
- C) Turn IGN OFF
- D) OPEN driver front door
- E) CLOSE driver front door (Remain inside vehicle)
- F) Lock vehicle using key fob (with keyfob inside vehicle).
- G) Wait 1 Minute
- H) Lightly Tap module and confirm horn chirps (increase impact if horn does not sound).
- J) Confirm that vehicle alarm is triggered.
- K) Unlock vehicle to deactivate alarm
- L) Turn IGN ON (Engine OFF) and confirm horn chirps twice (If applicable).
- M) Turn IGN OFF

SECTION 7 - INSTALLATION PROCEDURE (REINSTALL)

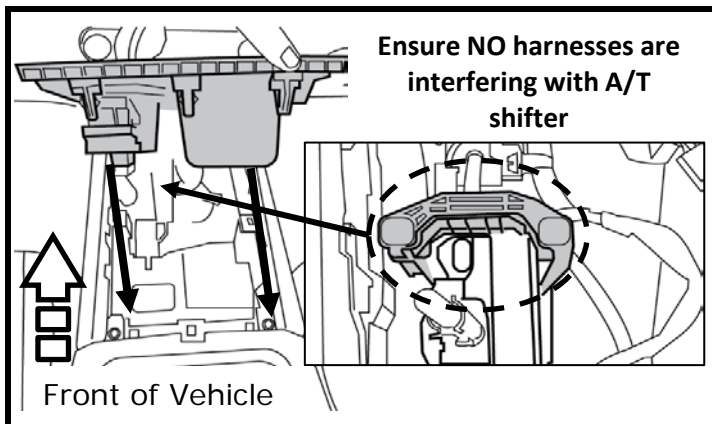


- 7.1) Reconnect all harnesses to center of console finisher.
 - a) Reconnect 2 Gray and 1 Green USB connector to socket, as shown.
 - b) Reconnect Black connector to socket, as shown.
 - c) Reconnect any other connectors (A/T shifter, I-key, P-Brake, etc.) under console.



CAUTION

- Conduct function check for ALL systems.

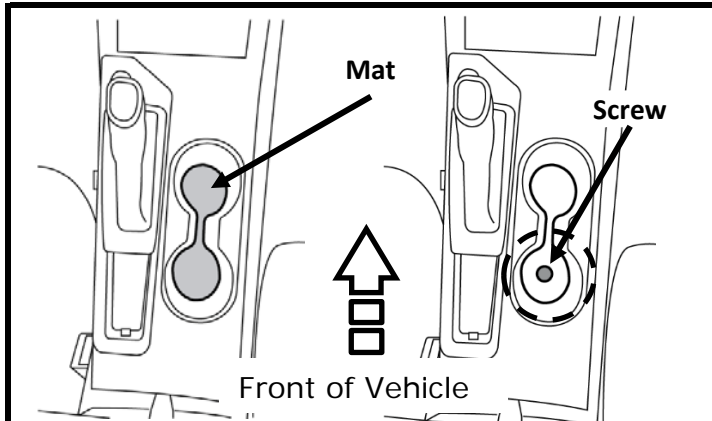


- 7.2) Reinstall center console finisher.
 - a) Check connections on finisher panel harness
 - b) Position finisher panel over console.
 - c) Align clips and lower into position.
 - d) Press down on finisher panel to engage clips.

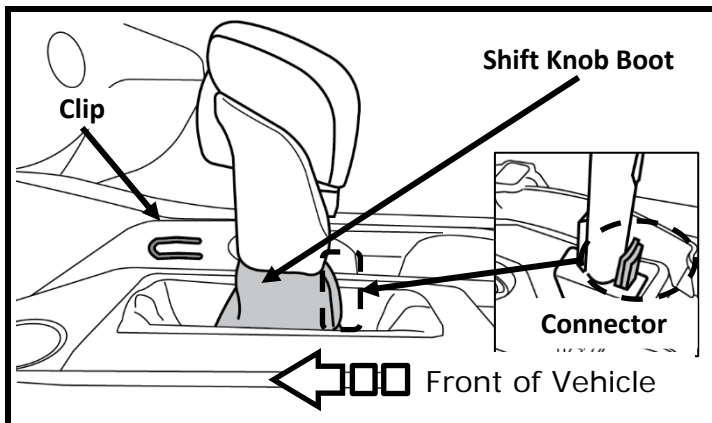


CAUTION

- Ensure A/T Shifter does NOT have any harness interference before engaging clips.
- Ensure E-Brake switch connectors are attached if present.



- 7.3) Reinstall center console finisher.
 - a) Using #2 Phillips Screw Driver reinstall screw from rear Cup Holder.
 - b) Reinstall rubber mat into cup holder.



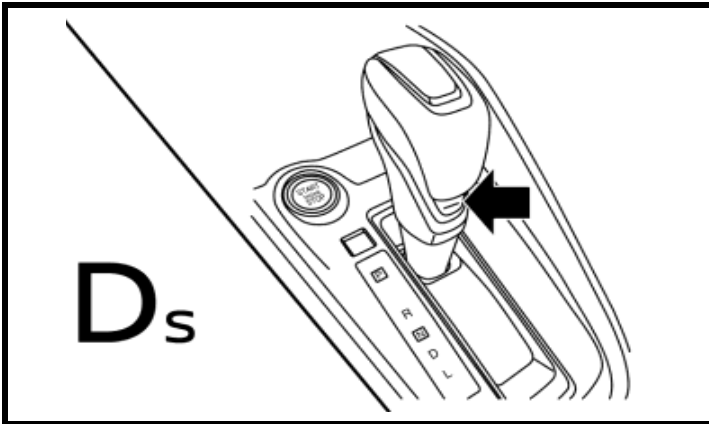
- 7.4) Reinstall gear selector knob.
 - a) Check clip for proper installation on knob.
 - b) Carefully reinsert knob and ensure proper lock with connector on gear selector.
 - c) Place knob on lever and press down.
 - d) Pull boot up and secure retainer ring to base of shift knob.



CAUTION

- NO terminal pins/connector should be bend or broken when reinstalling.

SECTION 7 - INSTALLATION PROCEDURE (REINSTALL)



- 7.5) Verify "Drive Sport Mode"
 - a) Ensure vehicle is in "ON".
 - b) Shift lever in "D" (Drive) position, and press "Drive Sport Mode" switch located on shift lever, as shown.
 - c) Ensure "Drive Sport Mode" indicator in instrument panel illuminates.



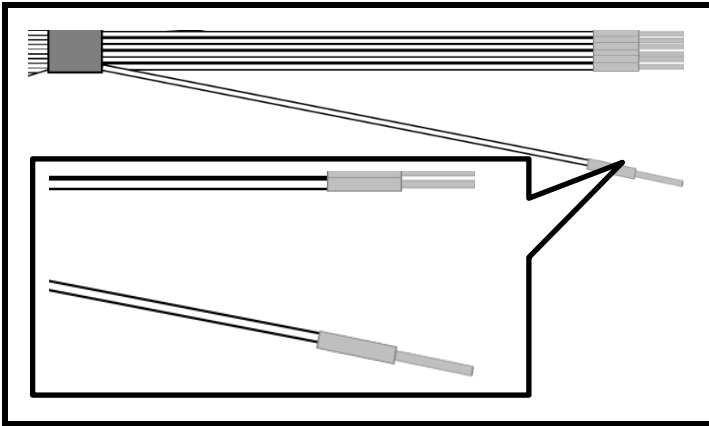
CAUTION

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

8.1) Complete checklist:

- Tighten battery nut to 5 N-m
- Verify shift lever lock is engaged by checking with vehicle off, so shift lever can NOT be moved out of "P" (Park).
- Verify re-installed trim parts for proper fit (no gap, waviness, etc.), particularly door sill weather strip.
- Verify all windows and sunroof (if equipped), one touch operation and perform reset procedure if necessary. Refer to vehicle Service Manual for more details.
- Re-program radio presets and other vehicle settings to recorded settings if necessary.
- If this vehicle will be returned to dealer lot or showroom for extended period of time, be sure extended storage switch is placed in 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



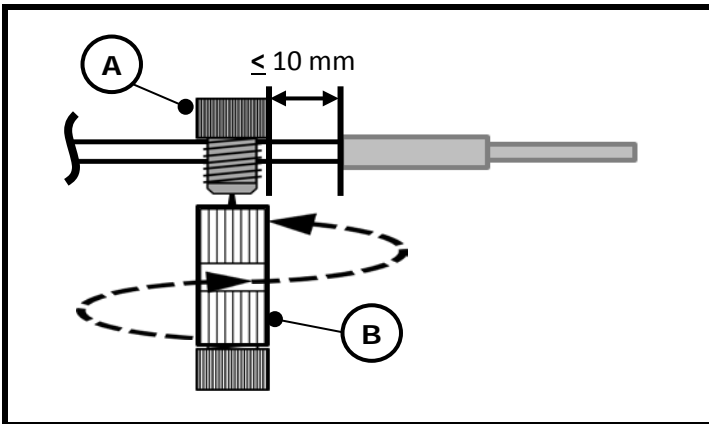
A.1) Installing Posi-Tap™ on Accessory Service Connector (AAA)

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



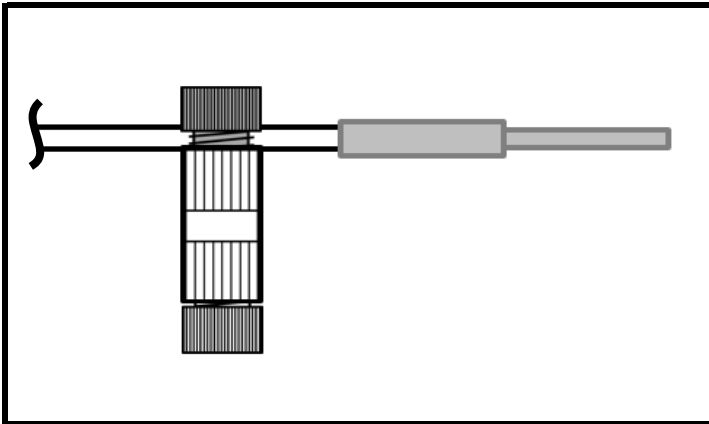
CAUTION

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



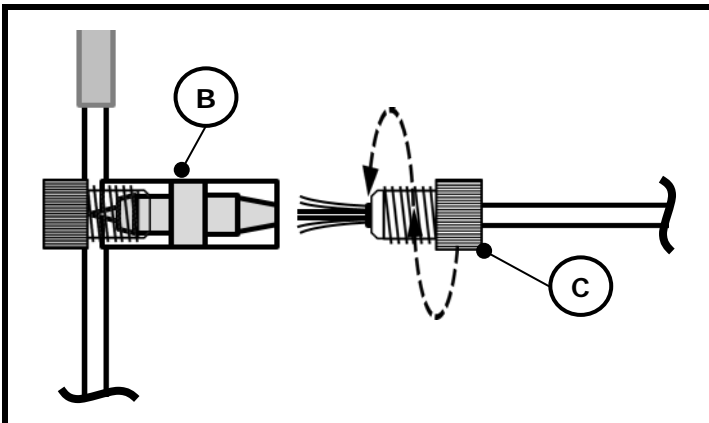
A.2) Installing Posi-Tap™ on ASC (AAA)

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



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

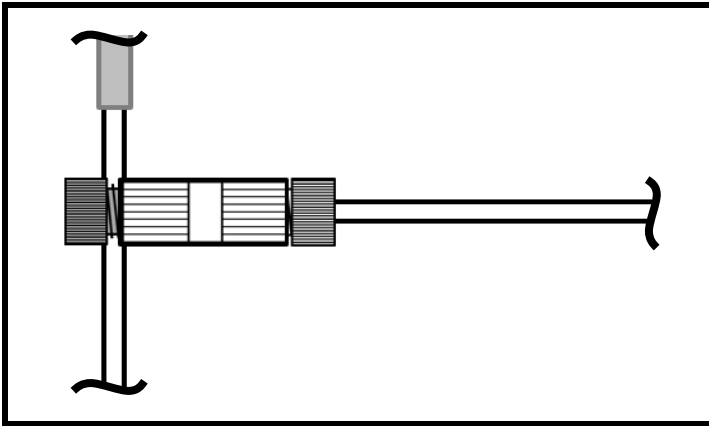
- Inspect Posi-Tap™ to ensure correct installation.
- Wire jacket should be crushed enough to maintain pressure.
- Confirm tap cap gap is straight and evenly spaced around perimeter.



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

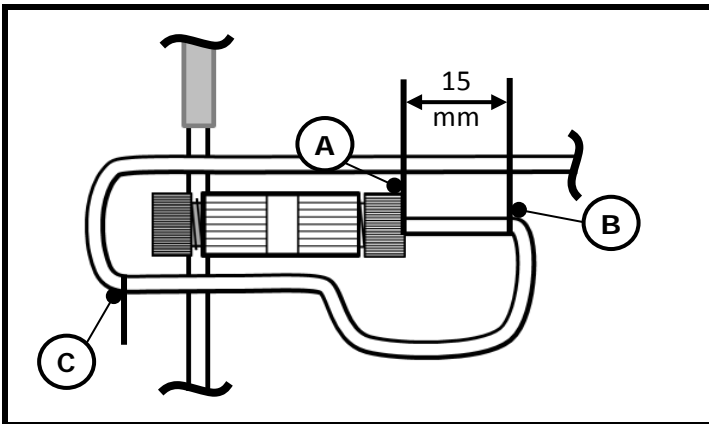
- Remove tap bottom (C) red side from tap body (B).
- Remove the pre cut insulation from correct Accessory wire.
- Insert wire through tap bottom (C) opening.
- Fan out individual wire strands as shown.
- Insert wire into tap body until it bottoms out.
- Turn tap bottom (C) clockwise until finger "tight".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

APPENDIX A - POSI-TAP PROCEDURE



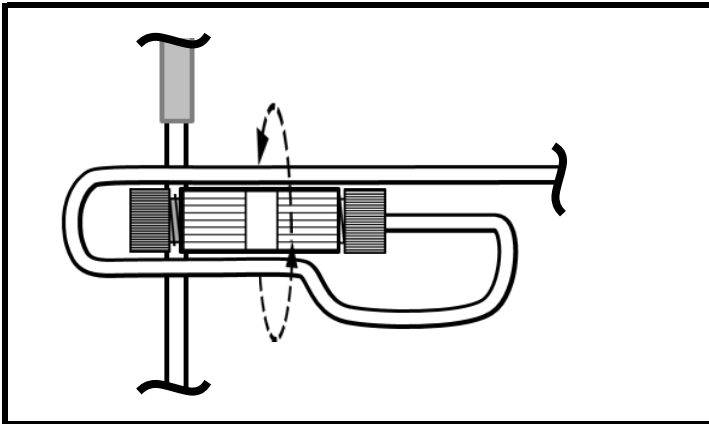
A.5) Installing accessory wire into Posi-Tap™

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



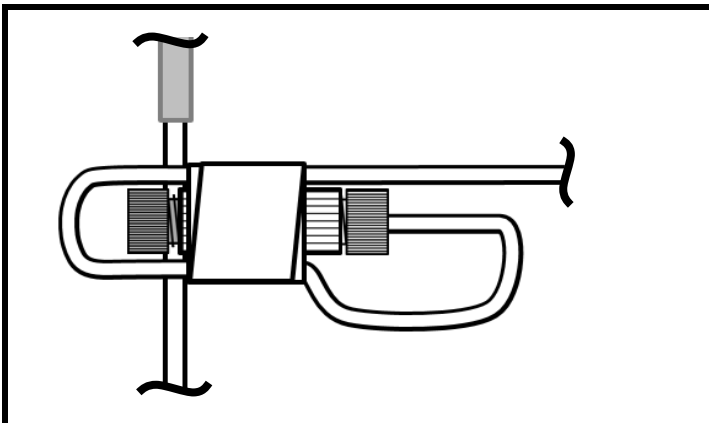
A.6) Accessory wire strain relief

- a) Measure ≥ 15 mm from point (A).
- b) Gently form loop at point (B) and bend back up towards Posi-Tap™ (bend radius ≥ 10 mm).
- c) Gently form 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

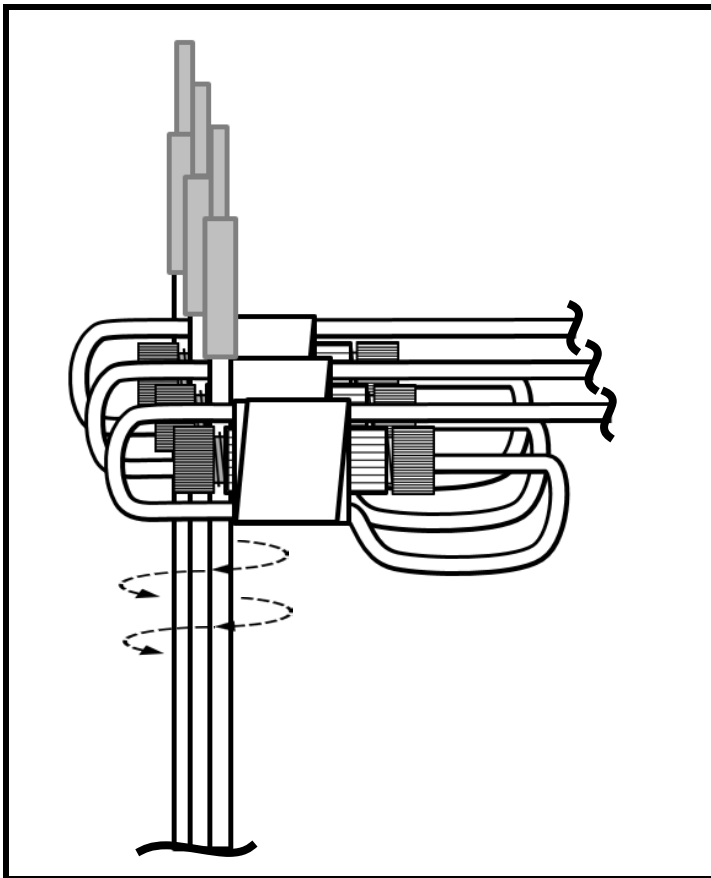
- a) Secure accessory wire strain relief to tap body with electrical tape (≥ 2 revolutions).
- b) Once accessory wire strain relief is taped to tap body, it should look as shown.



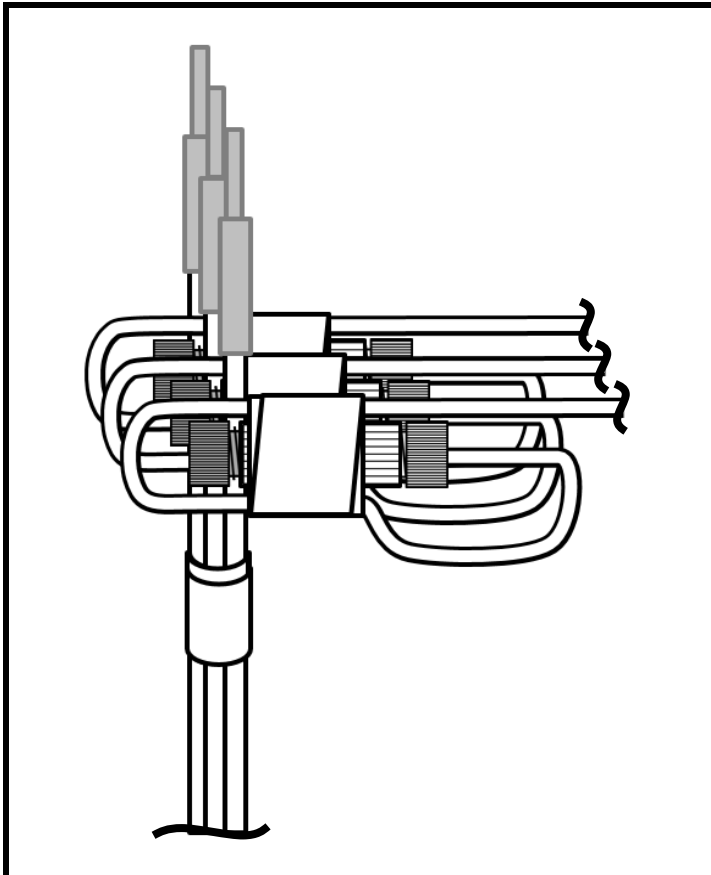
A.8) Installing Posi-Tap™ on ASC (AAA)

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

APPENDIX A - POSI-TAP PROCEDURE

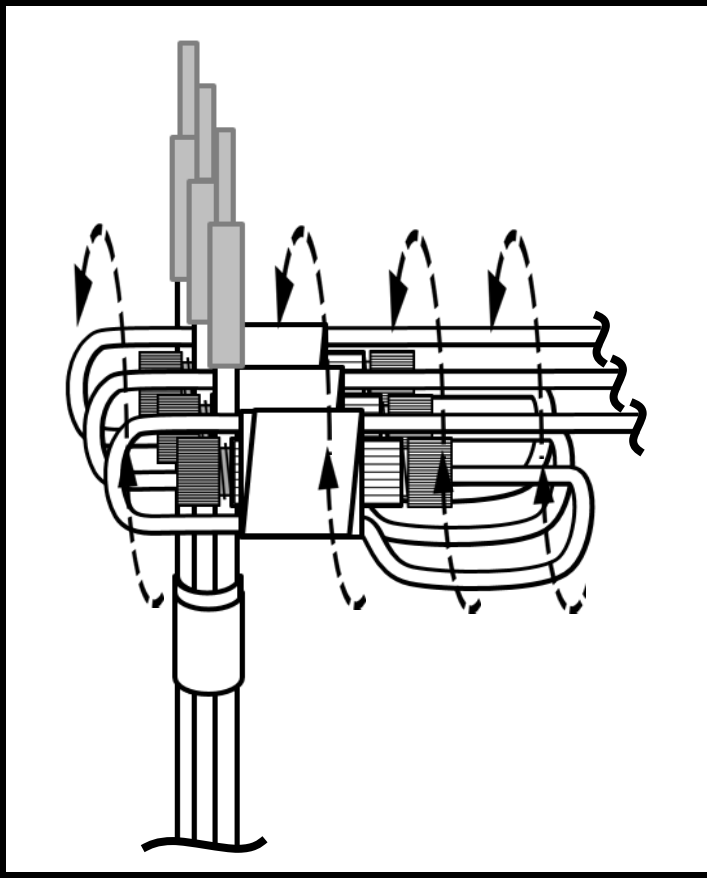


- A.9) Securing multiple Posi-Taps™ together
- a) Stack Posi-Taps™ in slightly staggered fashion as shown.
 - b) Secure tapped circuits together with electrical tape (≥ 2 revolutions).



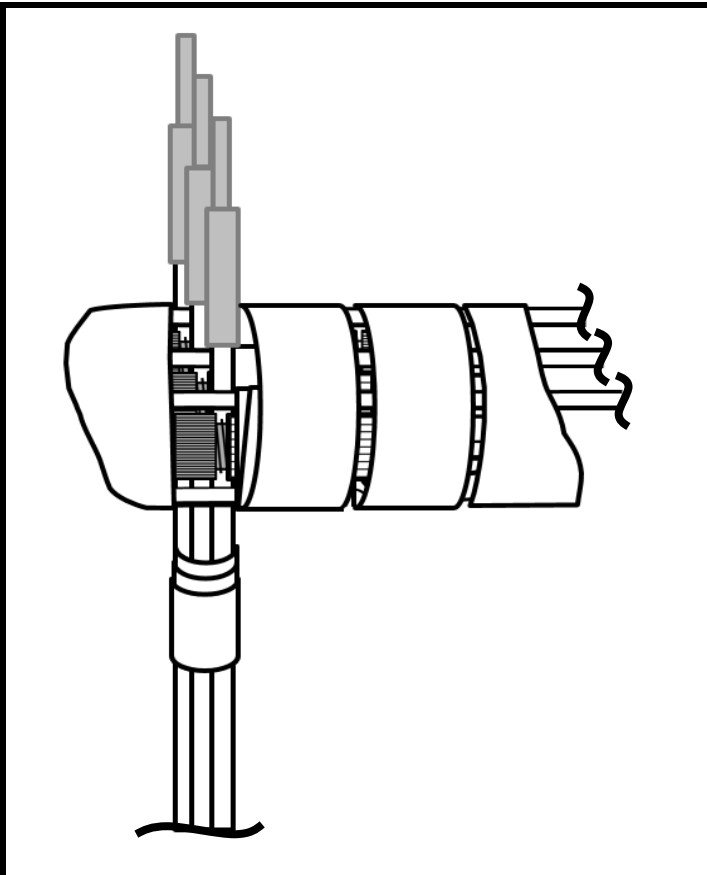
- A.10) Securing multiple Posi-Taps™ together
- a) Once tapped circuits are secured together with electrical tape they should look as shown.

APPENDIX A - POSI-TAP PROCEDURE



A.11) Securing multiple Posi-Taps™ together

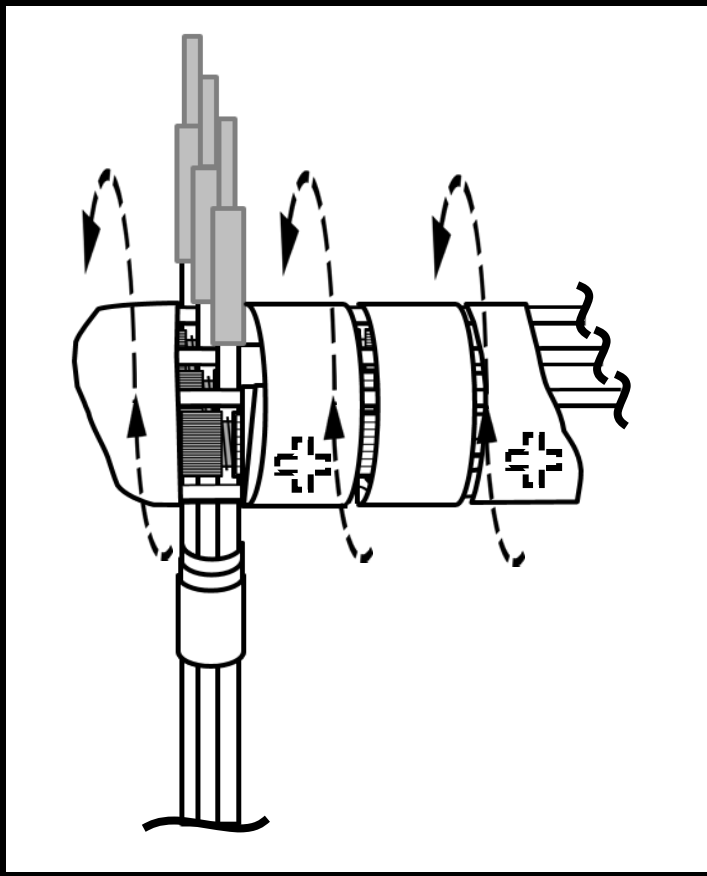
- a) Secure Posi-Taps™ together with electrical tape (≥ 4 revolutions).



A.12) Securing multiple Posi-Taps™ together

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

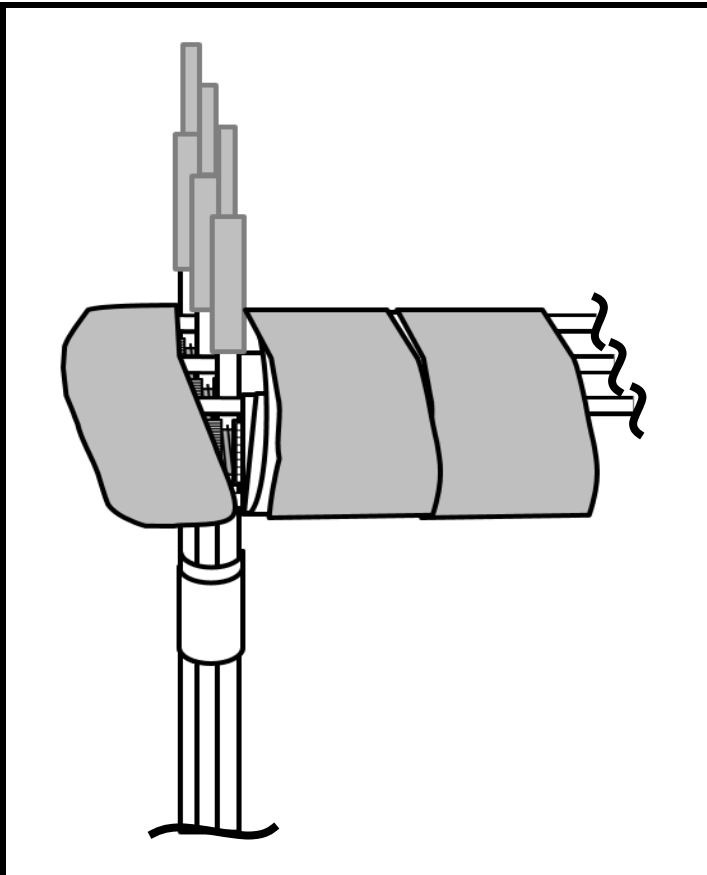
APPENDIX A - POSI-TAP PROCEDURE



A.13) 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 (J)



A.14) Securing multiple Posi-Taps™ together

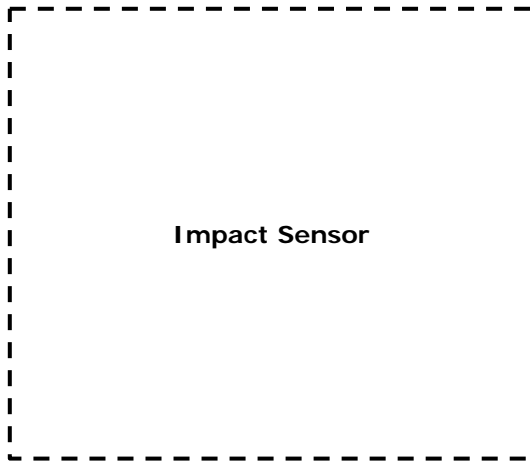
- a) Once wrapped with Foam Tape, taped Posi-Tap™ bundle should look as shown.


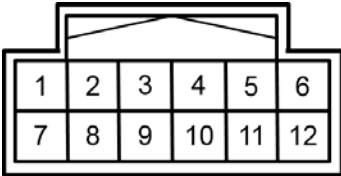
APPENDIX B - MECHANIZATION DRAWING

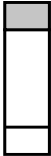
B.1) Figure below applies to the Impact Sensor connected to the LH ASC

IGN	1	white
BAT	2	red
	3	purple
	4	yellow
BAT_SAVER	5	pink
	6	green
FR_DOOR_SW_LH	7	lt_green
	8	gray
SECURITY_INDICATOR	9	blue
HORN	10	lt_blue
	11	orange
GND	12	black

**Accessory Service Connector
(AAA)**



CONNECTOR PN#	T99F6 4RA0A
CONNECTOR NAME	ACCESSORY SERVICE CONNECTOR
CONNECTOR COLOR	WHITE
	

LEGEND	
	<p>GRAY - CIRCUIT TAP (PIERCE) SIDE</p> <p>RED - ACCESSORY (INSERT) SIDE</p>
<p>Note: Pin location is referenced looking into harness side of connector with lock tab oriented as shown.</p>	