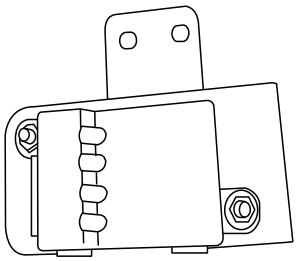
GENUINE PARTS

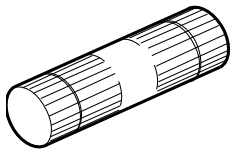
INSTALLATION INSTRUCTIONS

DESCRIPTION:	**Impact Sensor Gen II Kit**
APPLICATION:	**QX50**
PART NUMBER(S) REQUIRED FOR INSTALLATION:	**T99M2 5NA0A** **T99F6 4RA0A , Accessory Service Connector - not included in kits above**
KIT CONTENTS:	

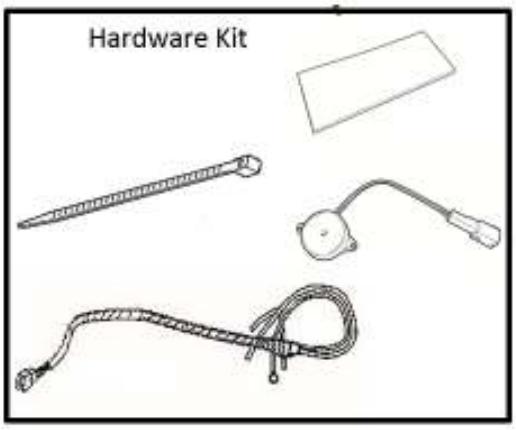
A



B



C



D

E

F

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) REQUIRED FOR INSTALLATION:	**T99M2 5NA0A** **T99F6 4RA0A , Accessory Service Connector - not included in kits 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	
D	2	M6 Flanged Nut	
	1	Buzzer	
E	1	Quick Reference Guide	
F	1	Installation Instruction Replacement Template	999V2 AW000

TOOLS REQUIRED:

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

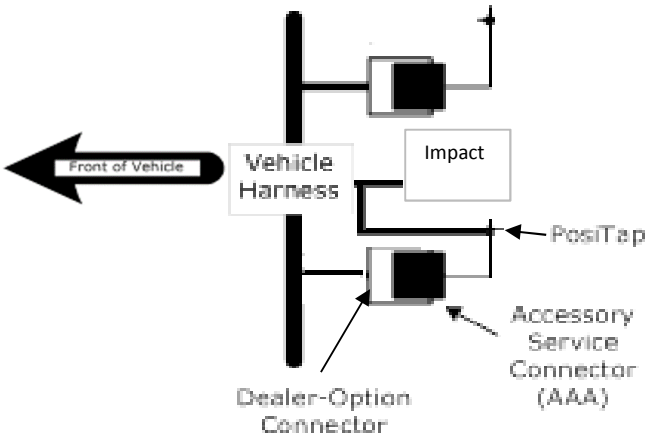
INSTALLATION CAUTIONS:

CAUTION

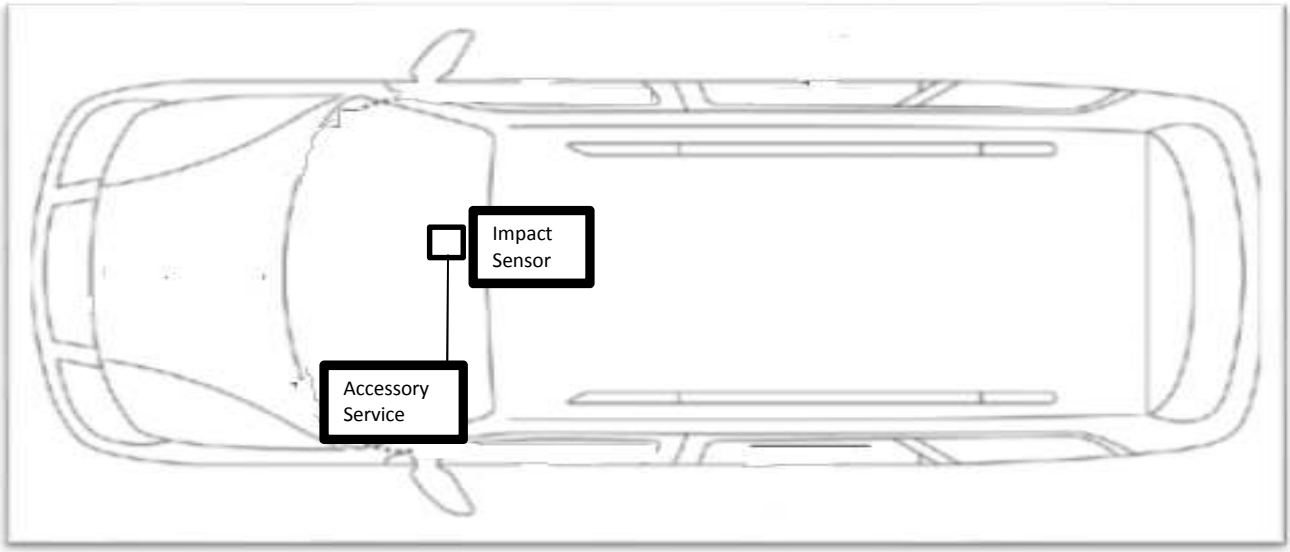
- **Dealer installation recommended. Instructions may refer to Service Manual.**
- **Please read this instruction carefully before installing this product for correct installation.**
- **Please DO NOT use or install the part in ways other than what is described.**
- **Always use floor, seat and steering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

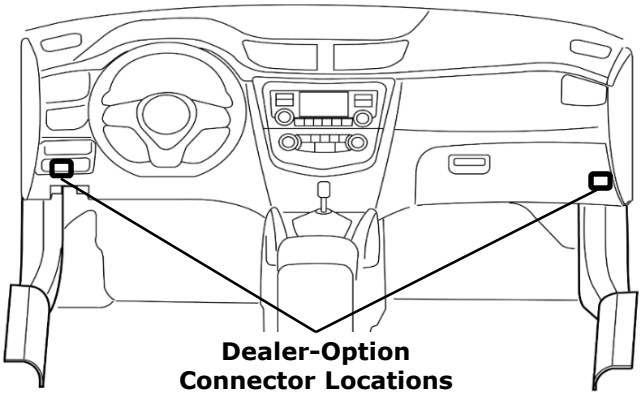
1.1) SYSTEM



1.2) VEHICLE



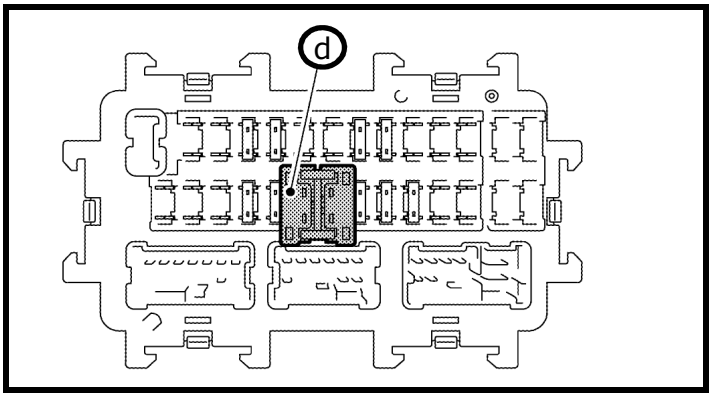
1.3) D-OPT CONNECTOR LOCATION



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 .

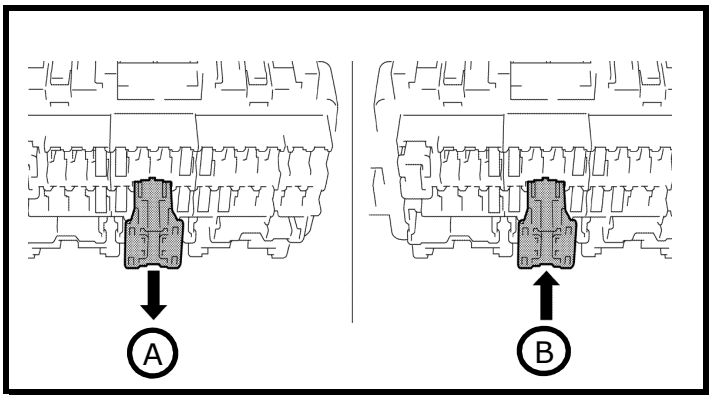
b) Apply park brake.

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)	

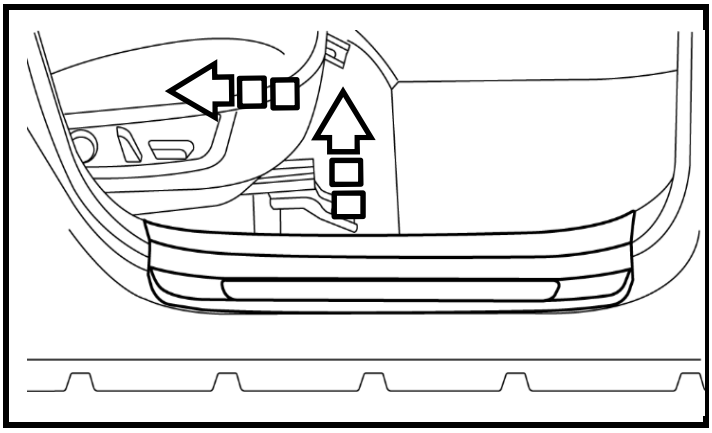
2.3) Record Customer Presets

a) Place ignition in "ON" mode.

b) Record the customer radio presets and other presets as required.

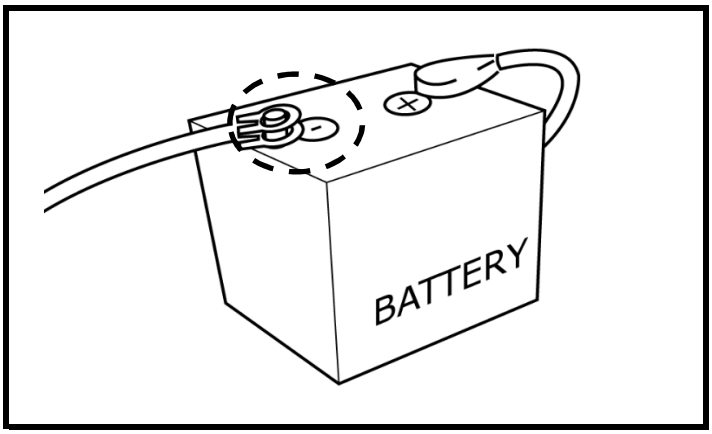
Preset	1	2	3	4	5	6	7	8	9	10

c) Place ignition in "OFF" mode.



2.4) Move Seats.

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



2.5) Disconnect battery terminal

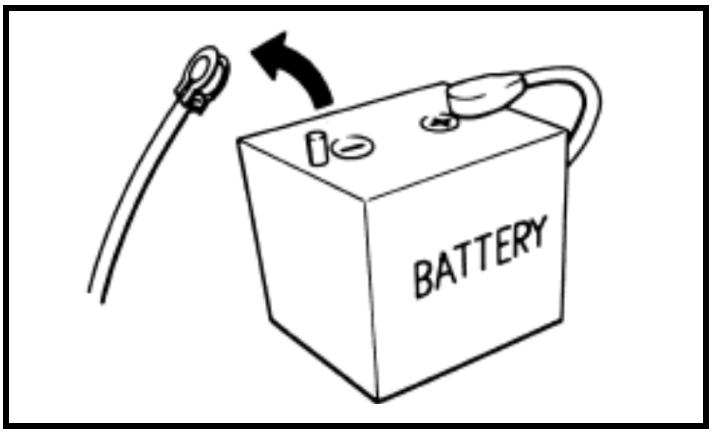
a) Locate negative battery terminal.

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.



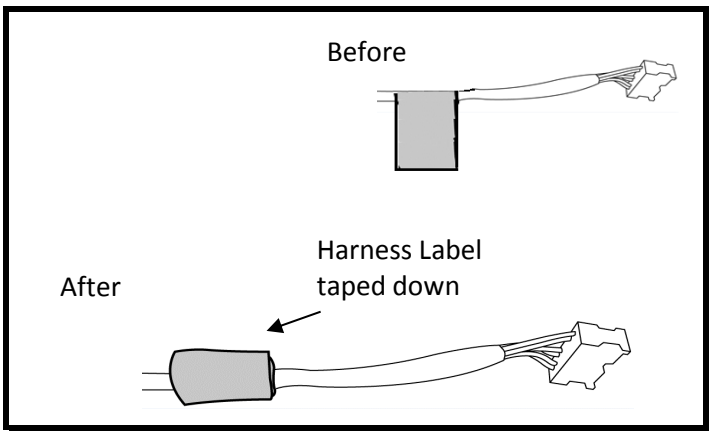
2.6) Disconnect battery terminal

a) Lift negative battery terminal off stud.

b) Isolate negative battery terminal.

⚠ CAUTION

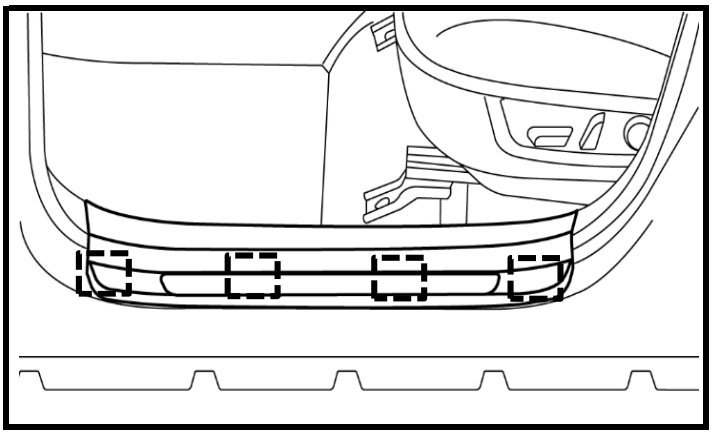
• Allow 3 min after negative terminal disconnect before separating any electrical connectors.



2.7 Secure down Harness Labels

a) To prevent any squeak and rattle, wrap all labels (on buzzer and on harness) around and tape down.

SECTION 3 - Trim Removal

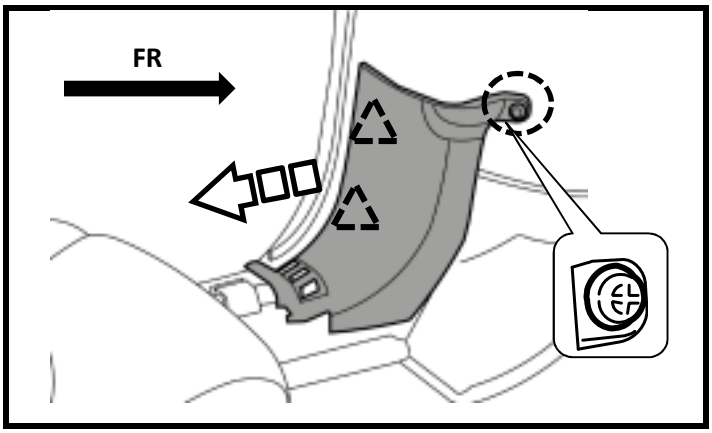


3.1) Remove Front Trim,LH side

a) Disconnect clips on inboard ends of sill plate by pulling toward interior.

Note: Begin prying panel at the rear and work forward for easiest removal.

Trim Clip



3.2) Remove Front Trim,LH side

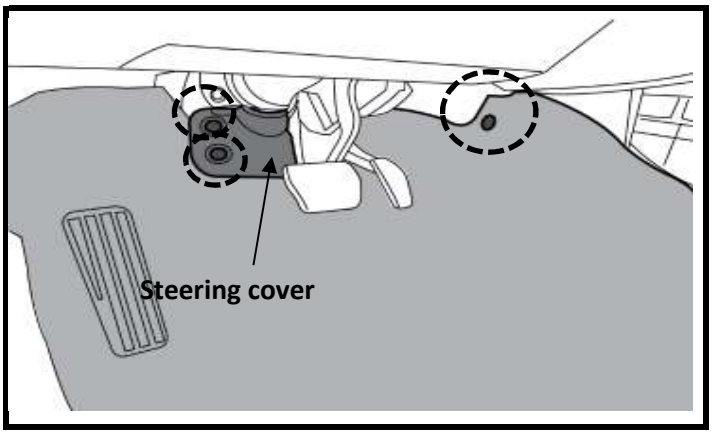
a) Remove trim fastener from lower kick trim by unscrewing with hand.

b) Disengage lower kick trim pawl by pulling rearward as shown.

Trim Fastener

Pawl

SECTION 3 - Trim Removal

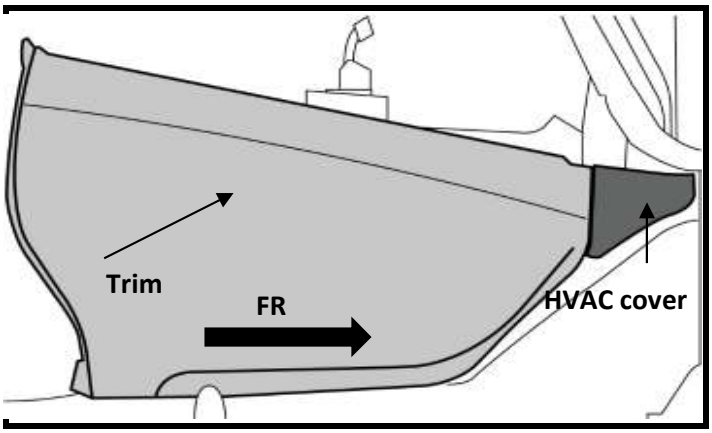


3.5 Pull Back Carpet, LH side

a) Remove the steering cover on LH side for routing harness

b) Pull back the carpet on LH side for routing harness

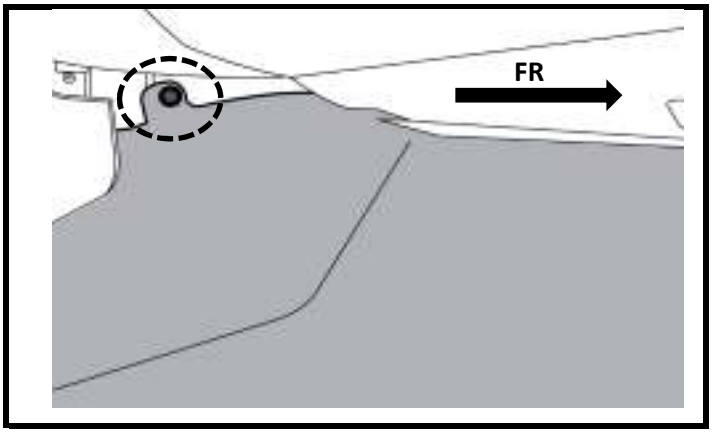
Trim Fastener



3.6 Remove Front Trim,RH side

a) Partially Remove trim on the RH side of the center console.

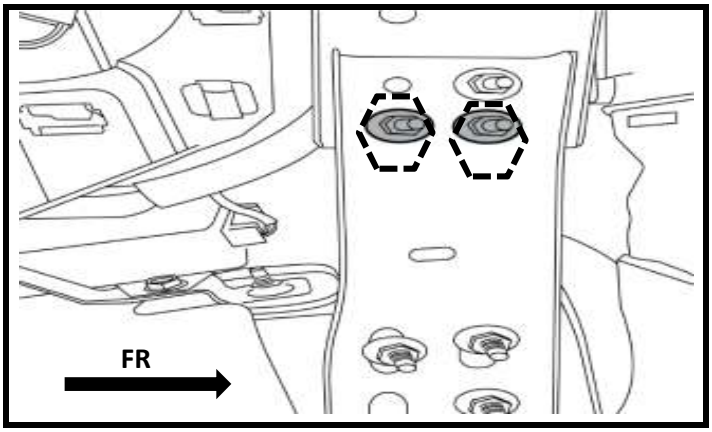
b) Remove HVAC cover on the RH side of the center console



3.7 Pull Back Carpet

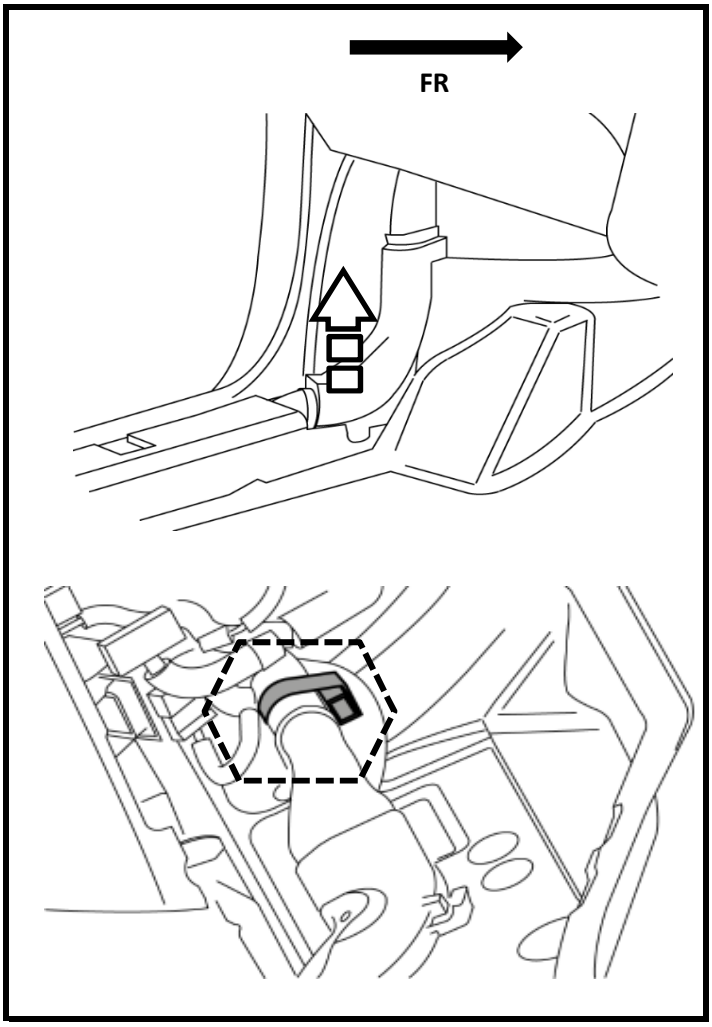
a) Pull back the carpet to expose the RH side Inst STAY

Trim Fastener



3.8 Remove Pre existing Upper two Nuts on RH INST STAY

a) Use a 10mm socket to remove Nuts

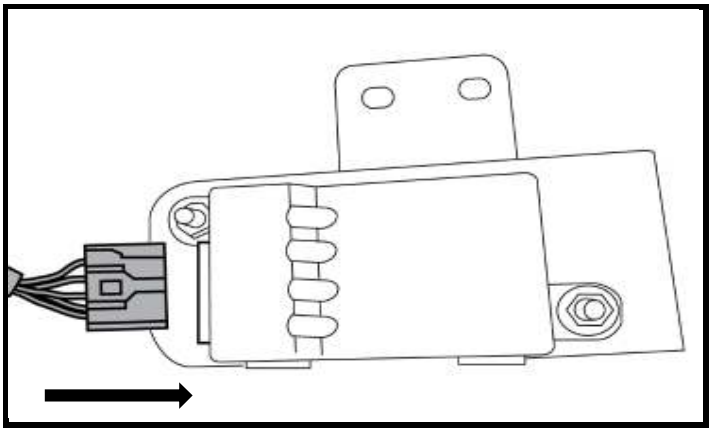


3.9 Locate LH side D-Opt connector

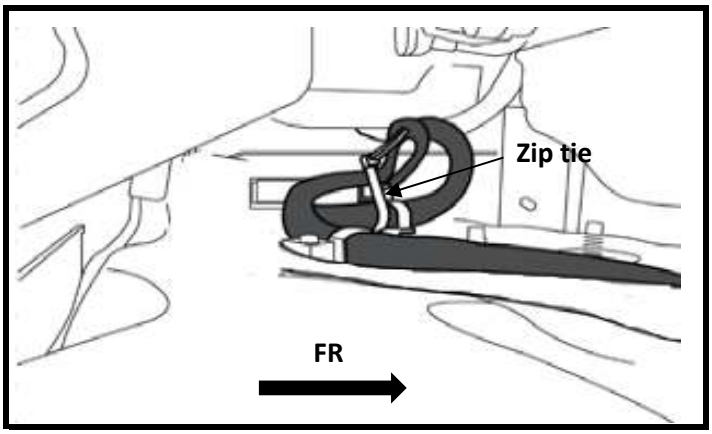
a) Locate Dealer-Option connector taped to main harness bundle.

D-Opt Connector

SECTION 4 - Harness Routing

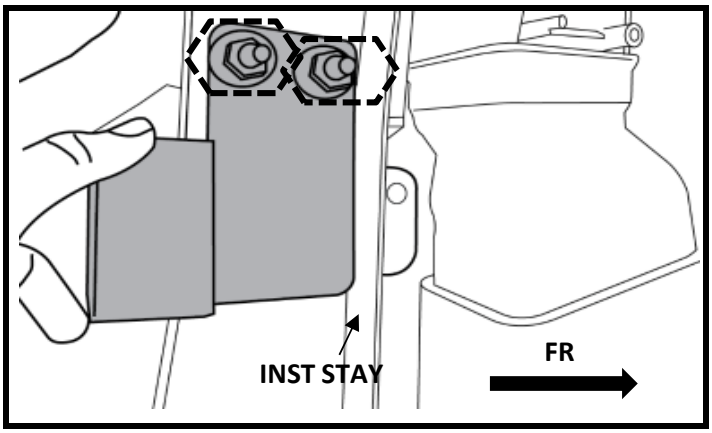


4.1) Connect Impact Sensor Harness to Impact Sensor Module.



4.2) Before Mounting Impact sensor Assembly.

a) Inside console bin, secure the vehicle existing harness together with zip tie as shown.

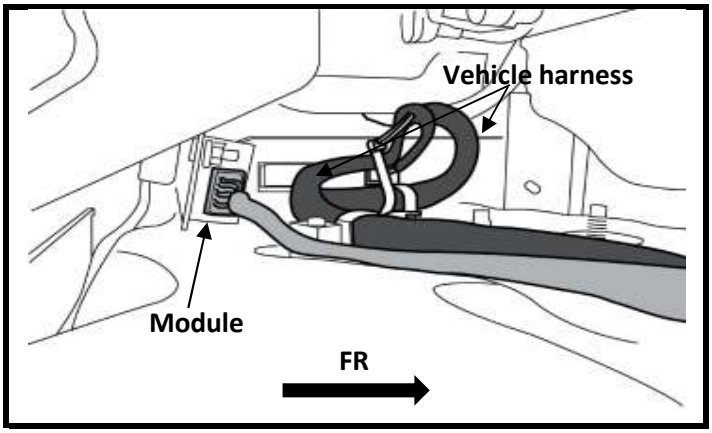


4.3) Securing Impact Sensor Assembly

a) Secure Impact Sensor Assembly to vehicle INST STAY and use a 1/4" Drive 10mm socket to tighten the two 10mm bolts that were provided in the Impact sensor kits.
NOTE : make sure the bracket is tightened against to the INST STAY.

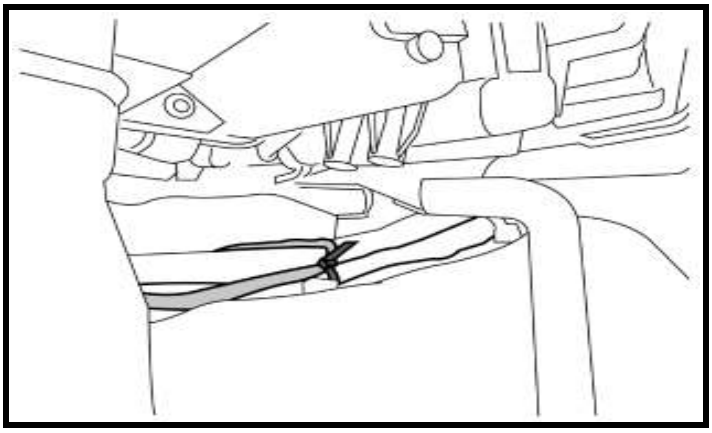
b) Torque nuts down using between 8-12N.m

Nuts



4.4) Route Impact Sensor Harness

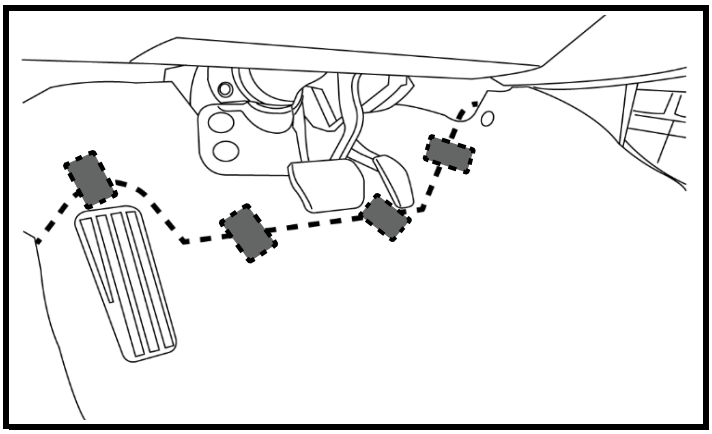
a) After mounting Impact Sensor Assembly, make sure there is no interference between Module and existing vehicle harness



4.5) Route Impact Sensor Harness

a) Route Harness from passanger side towards driver's side. Make sure not to pull harness too tight as to cause tension at connector.

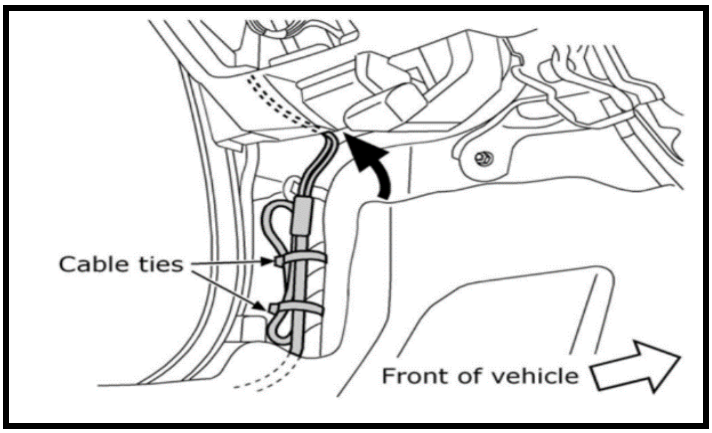
b) Secure Impact Sensor Harness to the existing vehicle harness with Zip Tie.



4.6) Route Harness

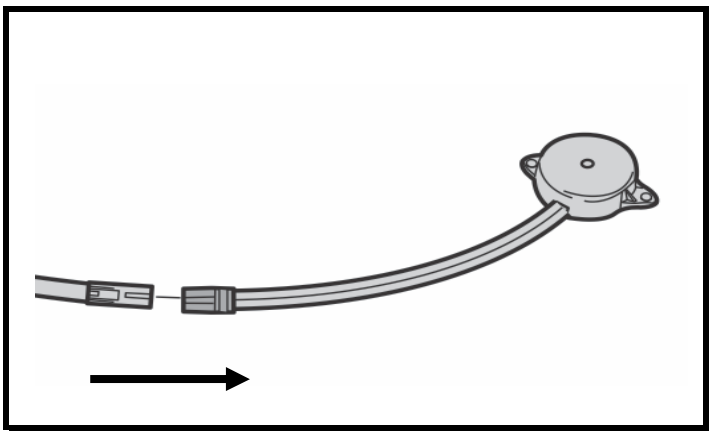
a) Route Harness under carpet and tuck harness under foam board.

b) Secure harness to backside of foam board with foam tape.



4.7) Route Harness

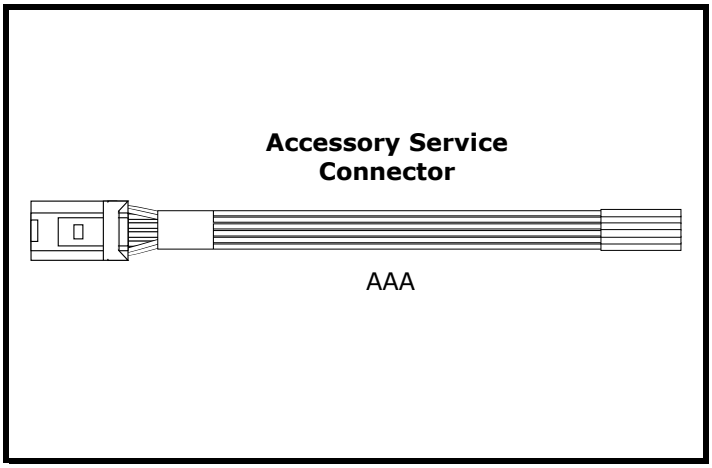
a) Route Harness up along existing harness by LH DASH SIDE FINISHER. Bundle and secure any excess harness with cable ties.



4.8) Connect Buzzer to Impact Sensor Harness

⚠ CAUTION

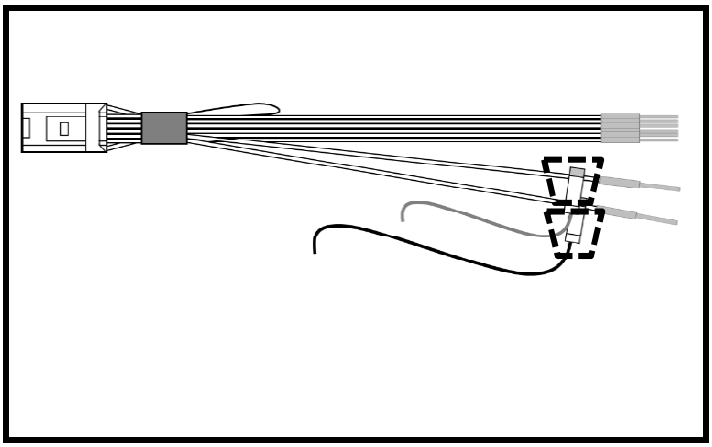
The Accessory Service Connector (AAA) is for use only with Genuine Nissan or Nissan-Approved accessories. Nissan/Infiniti is not liable for loss or damage due to improper installation or installation of non-Genuine or non-Approved accessories.



5.1) Connect ASC (AAA) to Impact Sensor Module

R( ) 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

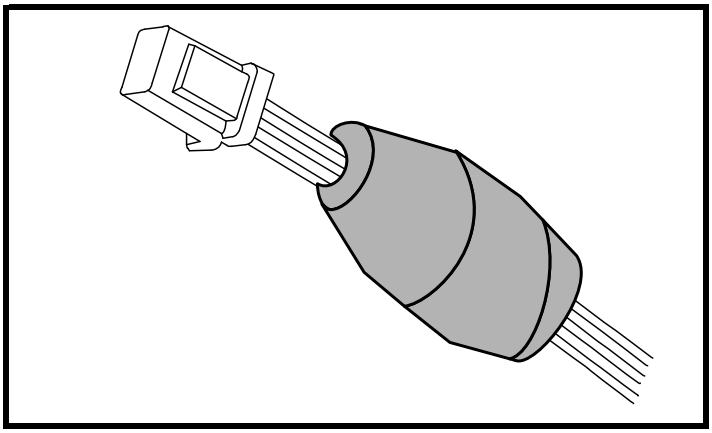
a) Using a Posi-Tap, connect the BLACK Impact Sensor lead wire to the "GND" (BLACK wire) of the ASC (AAA) as shown.

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 WHITE Impact Sensor lead wire to the "IGN" WHITE wire) of the ASC (AAA) as shown.

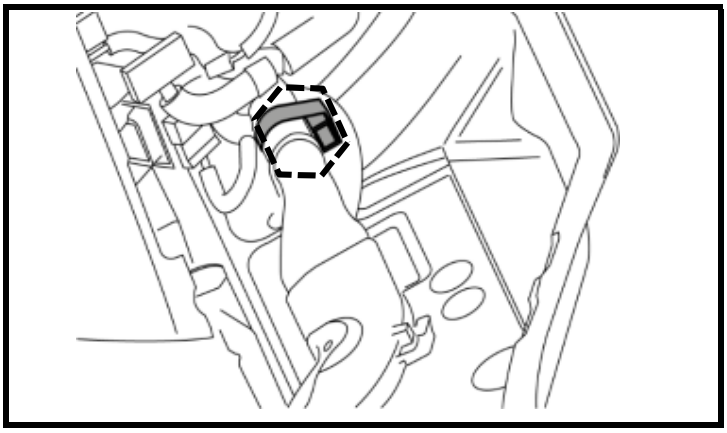


Posi Tap (B)

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.

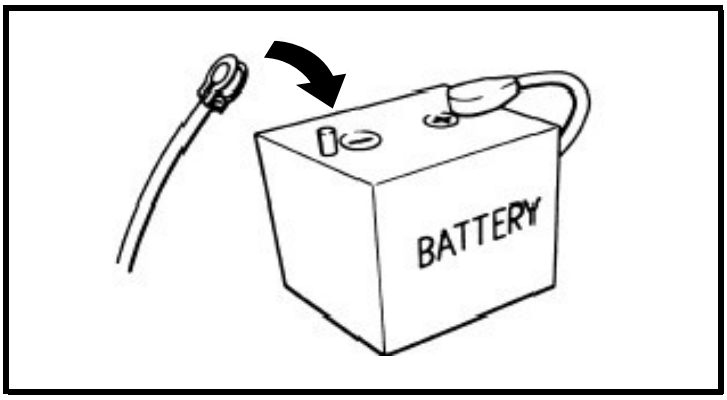
SECTION 5 - Accessory Service Connector



5.4) Connect ASC(AAA) to Impact Sensor Module

a) To prevent any possible noise or rattle issues, use Foam Tape to wrap pre-taped Posi-Taps™.

D-Opt Connector



5.5) Remove Front Trim,LH side

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

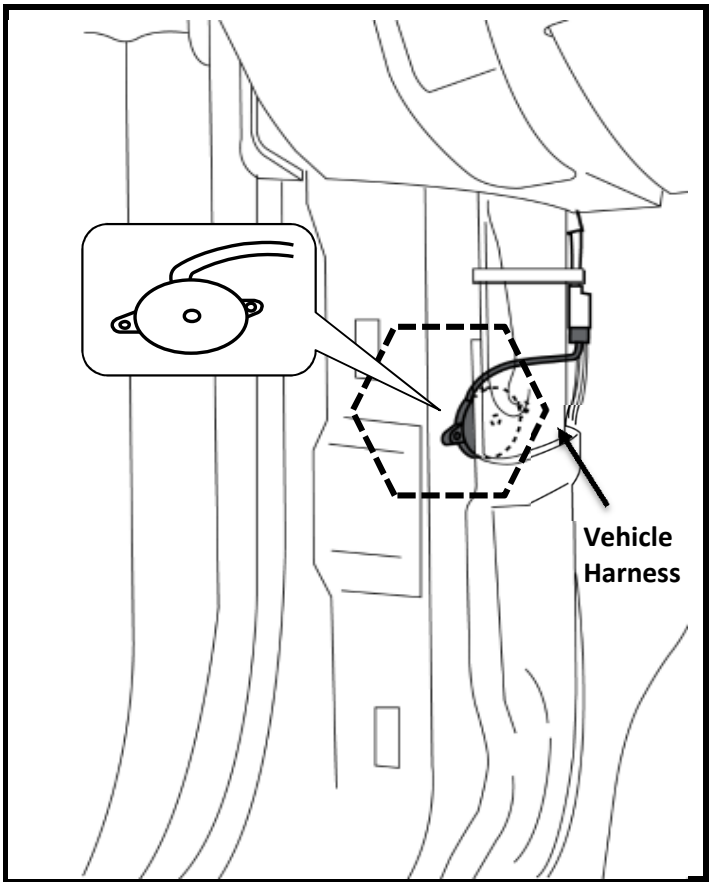
5.6) Electrical function check

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 that the vehicle alarm is triggered.
i) Unlock the vehicle to deactive alarm.
j) Confirm that the vehicle alarm is triggered.
k) Turn IGN ON and confirm the buzzer twice.
l) 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.

SECTION 6 - Final

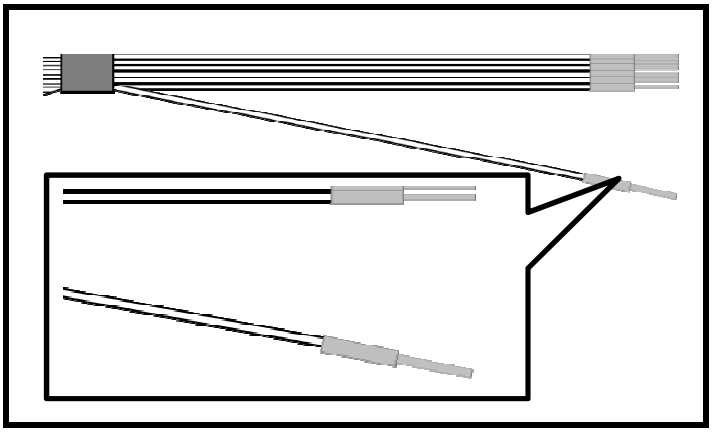


6.1) Secure Buzzer to flat surface of Lower Instrument Panel.

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

Buzzer

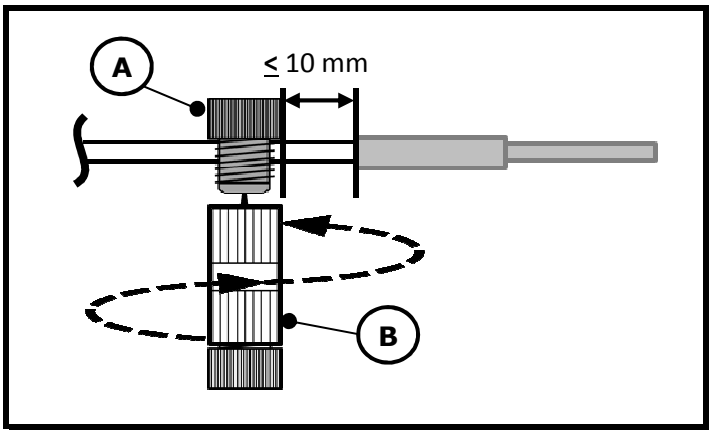
APPENDIX A - Posi-Tap Procedure



A.1) Installing Posi-Tap™ on ASC (AAA)

a) Identify and confirm ASC wire to be tapped.cehck 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

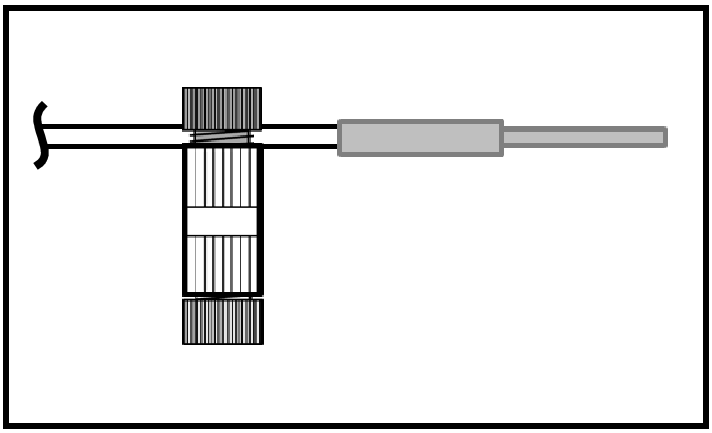
b) Slide cap around single wire to be tapped

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 ¼ turn.

⚠ CAUTION

Do not overtighten Posi-Tap, it may damage wire

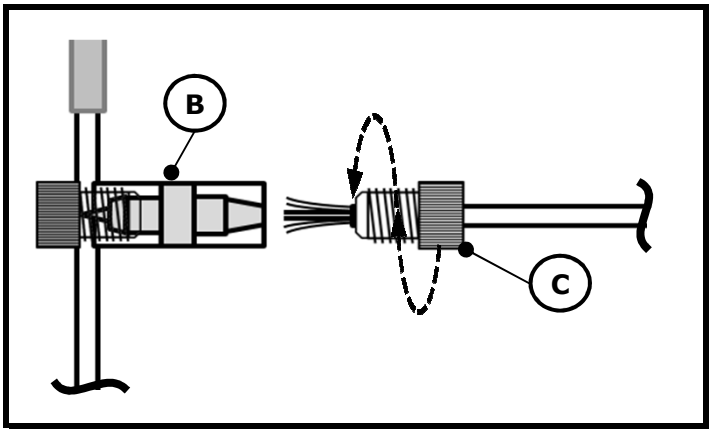


A.3) Installing Posi-Tap™ on ASC (AAA)

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.

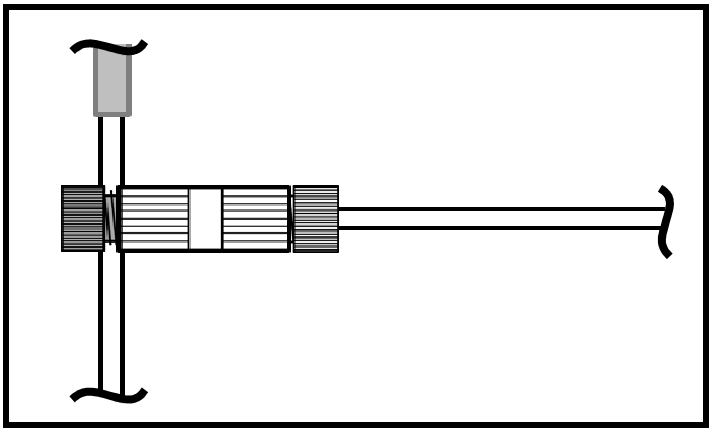
c) Insert wire through tap bottom (C) opening.

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 ¼ turn.

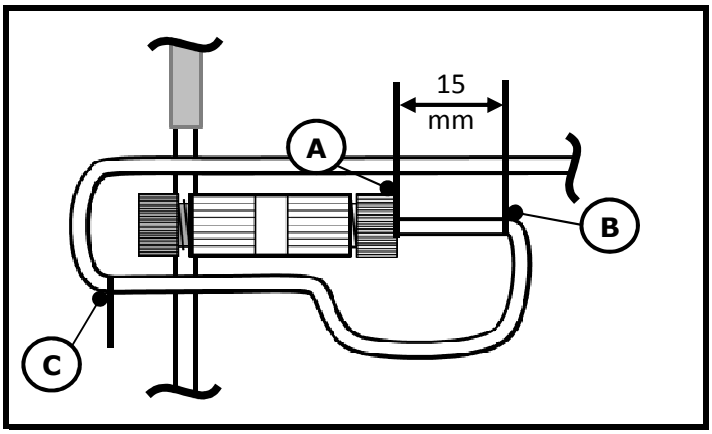
APPENDIX A - Posi-Tap Procedure



A.5) Installing Posi-Tap™ on ASC (AAA)

a) Confirm tap bottom gap is straight and evenly spaced around perimeter

b) Gently pull on wire to confirm secure connection.

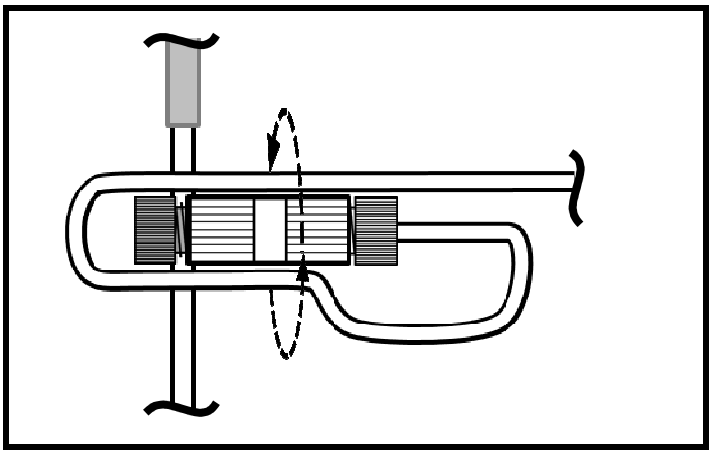


A.6) Accessory wire strain relief

a) Measure ≥ 15 mm from point (A).

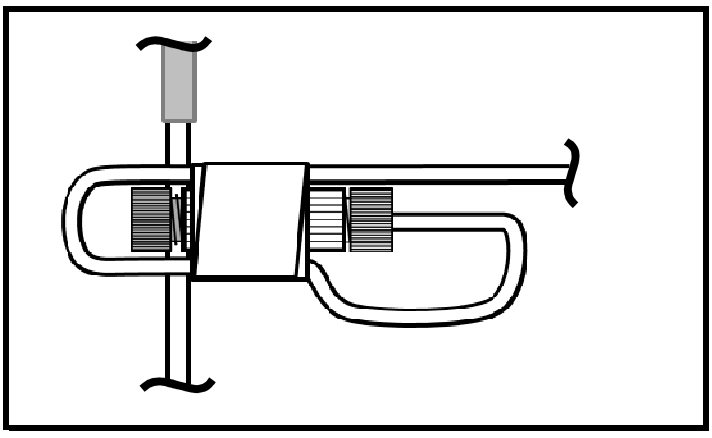
b) Gently form a loop at point (B) and bend back up towards Posi-Tap™ (bend radius ≥ 10mm).

c) Gently form a loop at point (C) and bend back over top of Posi-Tap™ and down opposite side (bend radius ≥ 10mm).



A.7) Accessory wire strain relief

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



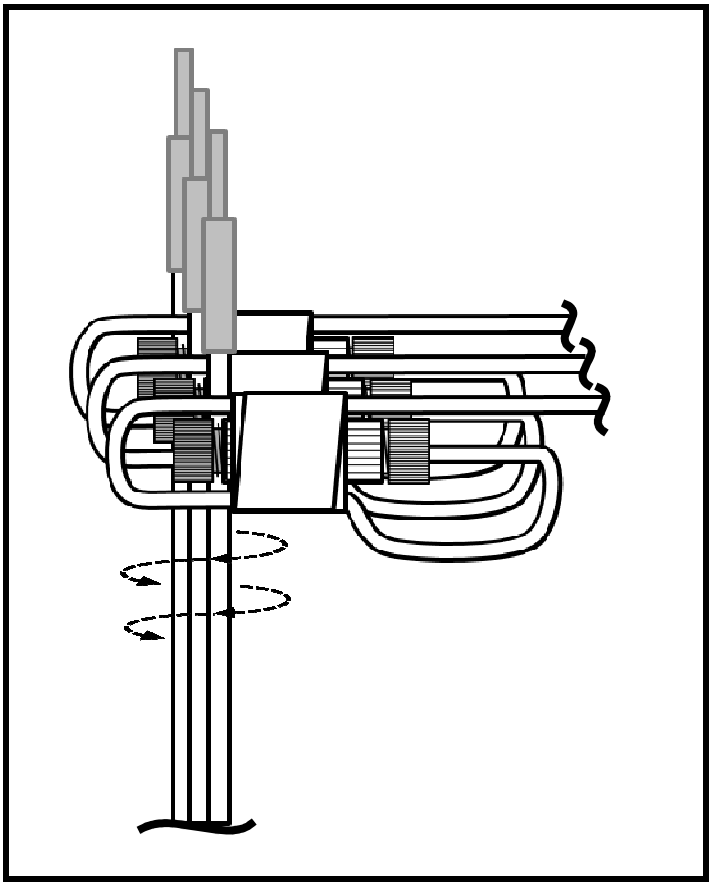
A.8) Accessory wire strain relief

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™.

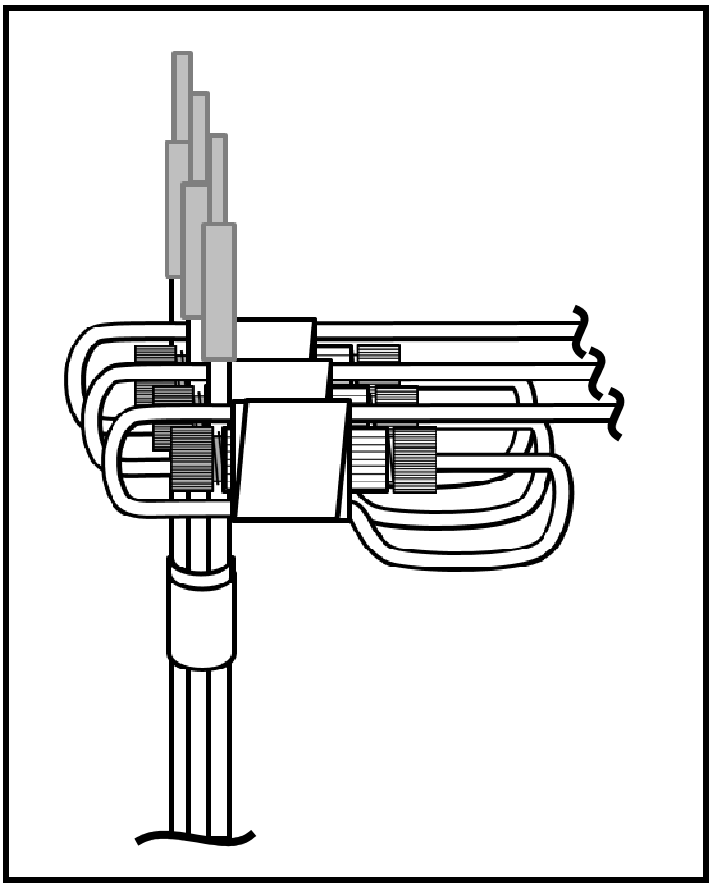
APPENDIX A - Posi-Tap Procedure



A.10) Securing multiple Posi-Taps™ together

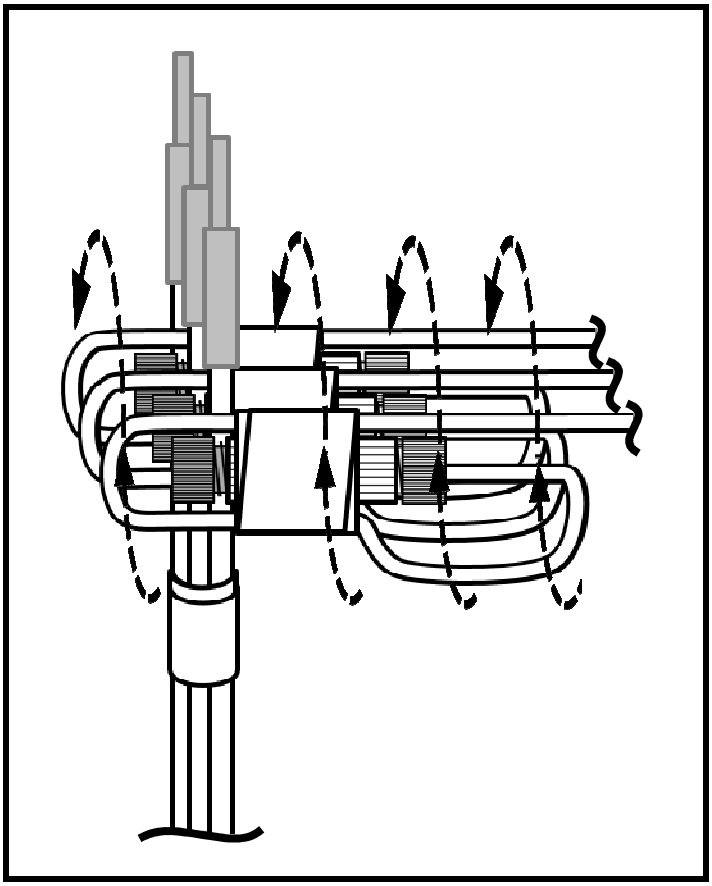
a) Stack Posi-Taps™ in slightly staggered fashion as shown.

b) Secure tapped circuits together with electrical tape (≥ 2 revolutions).



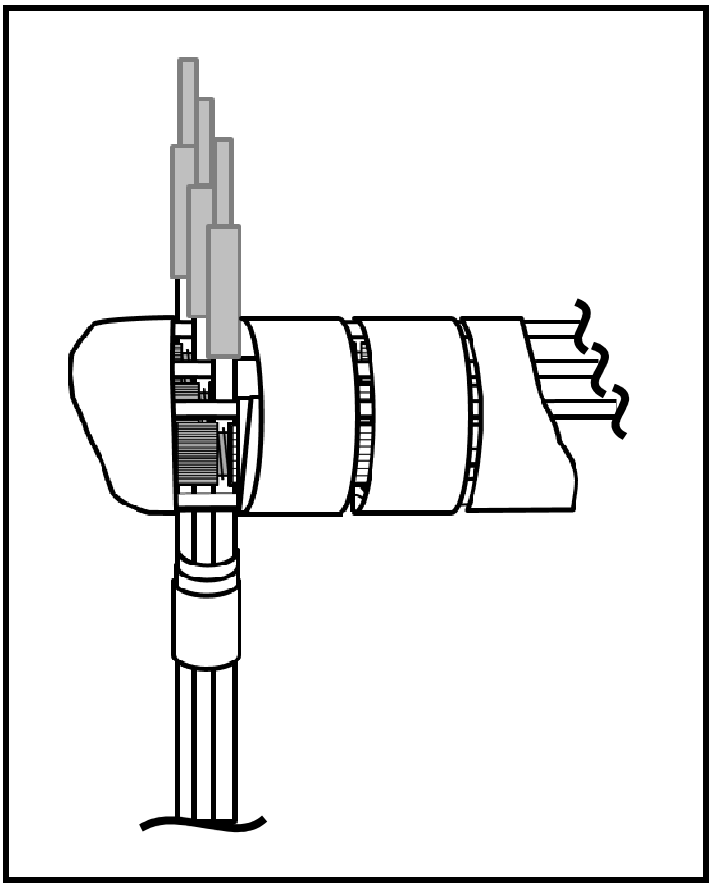
A.11) Securing multiple Posi-Taps™ together

a) Once tapped circuits are secured together with electrical tape they should look as shown.



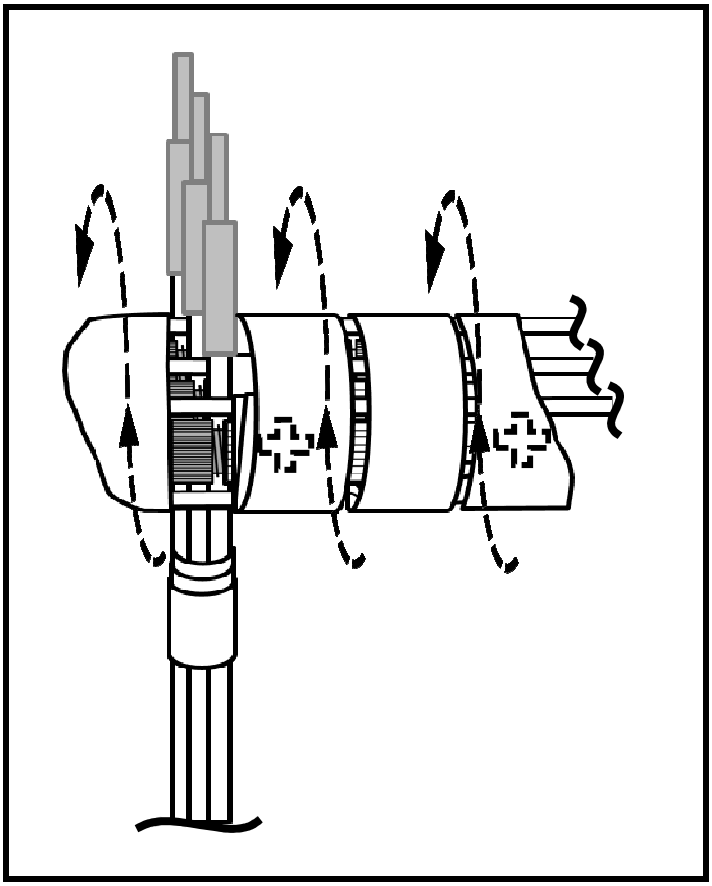
A.12) Securing multiple Posi-Taps™ together

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



A.13) Securing multiple Posi-Taps™ together

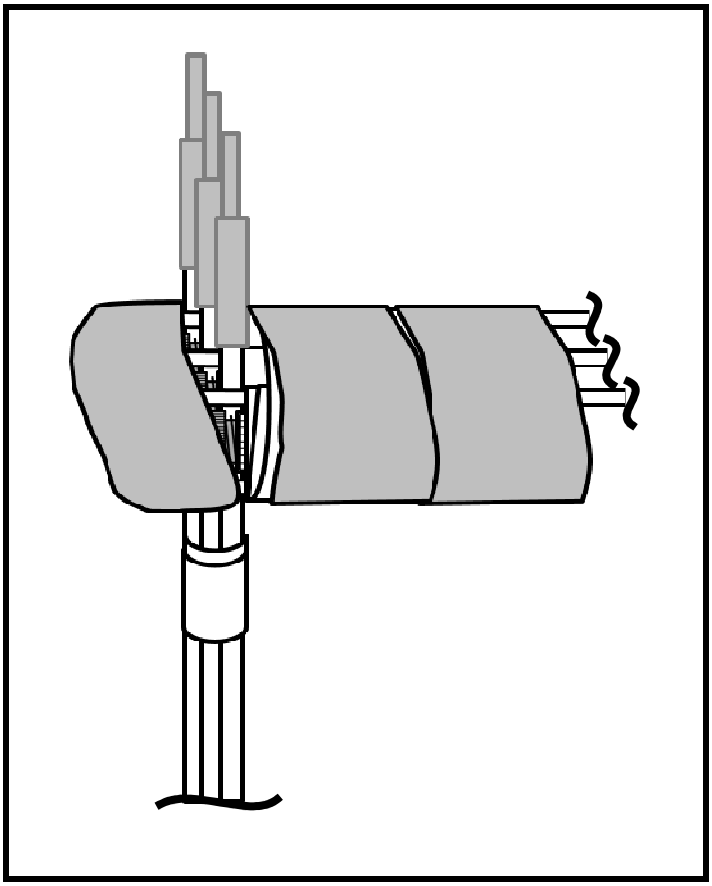
a) Once Posi-Taps™are secured together with electrical tape they should look as shown.



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)

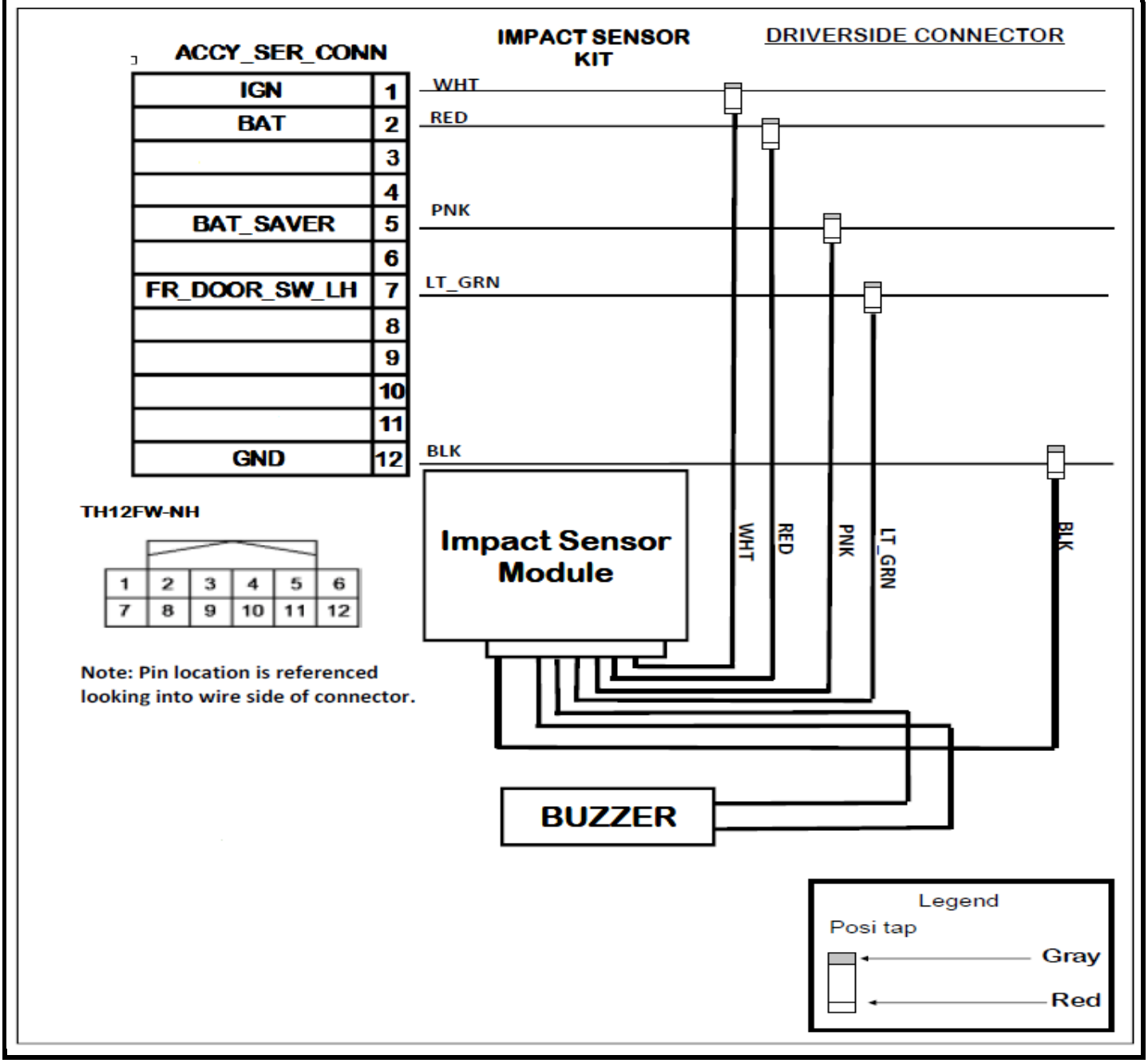


A.15) Securing multiple Posi-Taps™ together

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
CONNECTOR NAME	ACCESSORY SERVICE CONNECTOR
CONNECTOR COLOR	WHITE

UNIT

H.S.

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

LEGEND

POSI-TAP

GRAY - CIRCUIT TAP (PIERCE) SIDE

T99F6 4RA0A

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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