



GENUINE PARTS

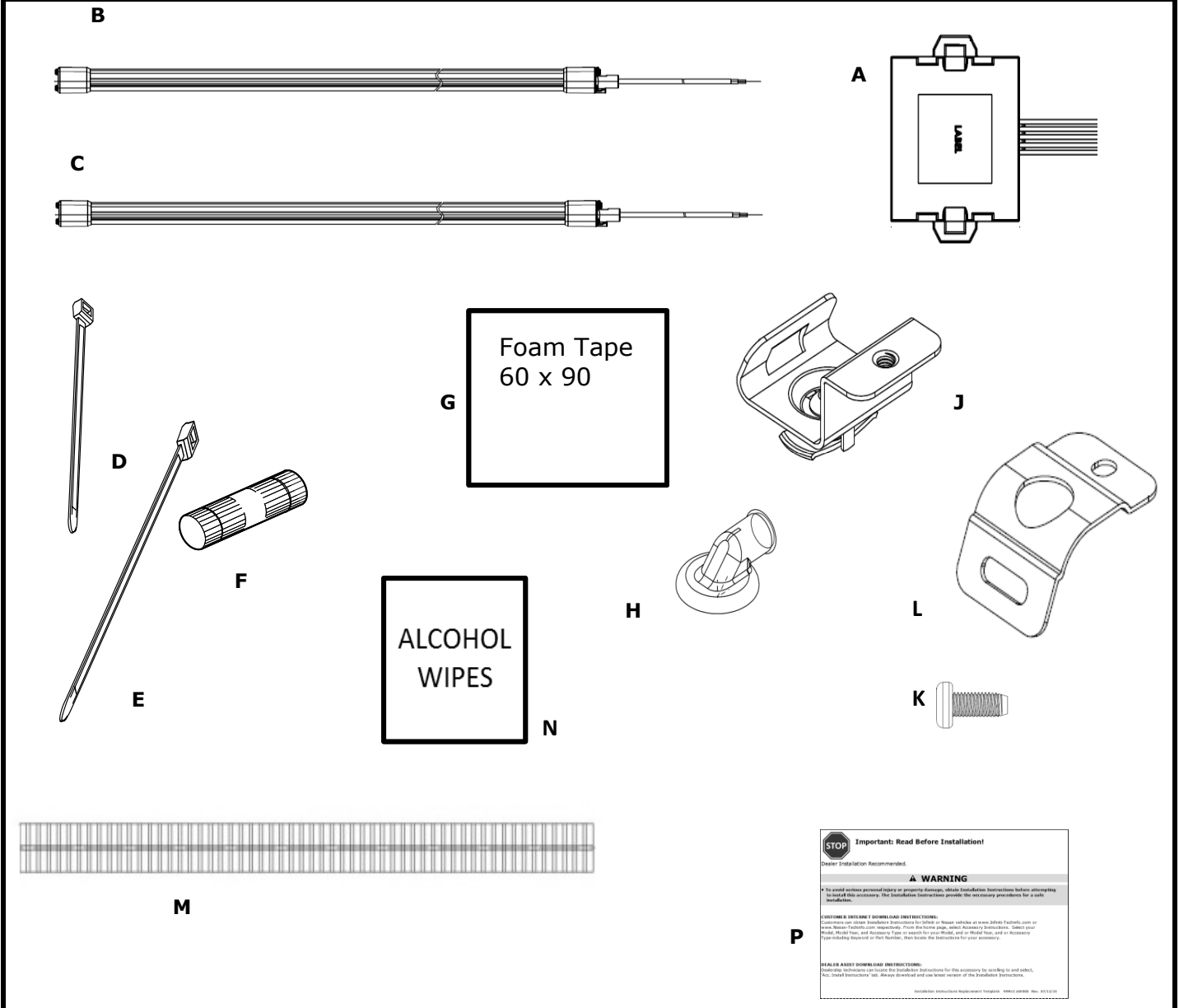
INSTALLATION INSTRUCTIONS



INFINITI.

DESCRIPTION:	Infiniti / Nissan Welcome Lighting Kit
APPLICATION:	Pathfinder / QX60
PART NUMBER(S)	T99F4 5CH0C -Welcome Lighting Kit
REQUIRED FOR	T99F4 5CH0DII - Installation Instructions (WEB)
INSTALLATION:	(2) 999Q9 AY001 / T99F6 4RA0A, Accessory Service Connector - not in kit

KIT CONTENTS:



ADDITIONAL SERVICE PARTS NOT INCLUDED IN KIT ABOVE :

Item	Qty.	Part Description	Service Part Number
AAA	2	Accessory Service Connector	999Q9 AY001 / T99F6 4RA0A



AAA

**PART NUMBER(S)
REQUIRED FOR
INSTALLATION:**

T99F4 5CH0C -Welcome Lighting Kit.

(2) 999Q9 AY001 / T99F6 4RA0A , Accessory Service Connector - not in kit

KIT CONTENTS:

Item	Qty.	Part Description	Service Part Number
A	1	Control Module	Not Serviceable- Part of Kit T99F4 5CH4C
B	1	Welcome Light Bar 1.3M (RH)	
C	1	Welcome Light Bar 1.3M (LH)	
D	16	• Wire Tie 8 inch LG Black (203 mm x 4.7mm x 1.27)	
E	1	• Wire Tie 12 inch LG Black (305 mm x 4.6mm x 1.2)	
F	9	• Posi-Tap™ Connector	
G	5	• Foam Tape, 60 x 90 x 5 mm	
H	4	• Rubber Grommet	
J	6	• Bracket-Sub Assy	
K	6	• 4 mm Screw	
L	6	• Bracket Strap	
M	1	• Convoluted Tubing 762 mm	
N	2	• Alcohol Wipes	
P	1	II REPLACEMENT TEMPLATE CARD REV DATE: 11/07/17	

- Angled Trim Removal tool, nylon
- ST Trim Removal Tool, Nylon
- Tape measure
- Metric scale
- Screwdriver, Torx T-20
- Scissors
- Shop Vac
- Mineral Oil
- Towel, Soft Non-Linting
- Pliers, Wire Cutting
- Electrical Tape
- Flashlight
- Masking Tape
- Protective Gloves
- #2 Philips screwdriver
- Work Light
- 50% Alcohol/50% Water Solution
- Pliers, Wire Cutting
- Screwdriver, Straight 3/8"
- Scissors
- Wrench, 10mm
- Ratchet, 1/4" drive
- Socket, 10mm, 1/4" drive
- Torque Wrench, 1/4" drive

CAUTIONS, WARNINGS, AND NOTES:

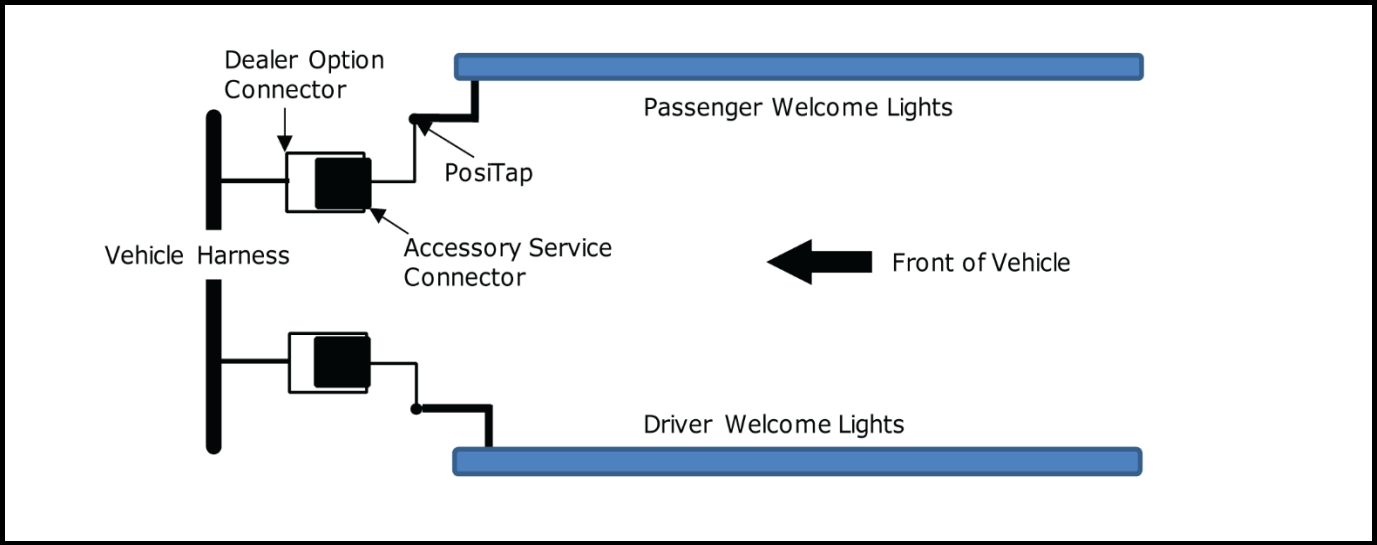


CAUTION

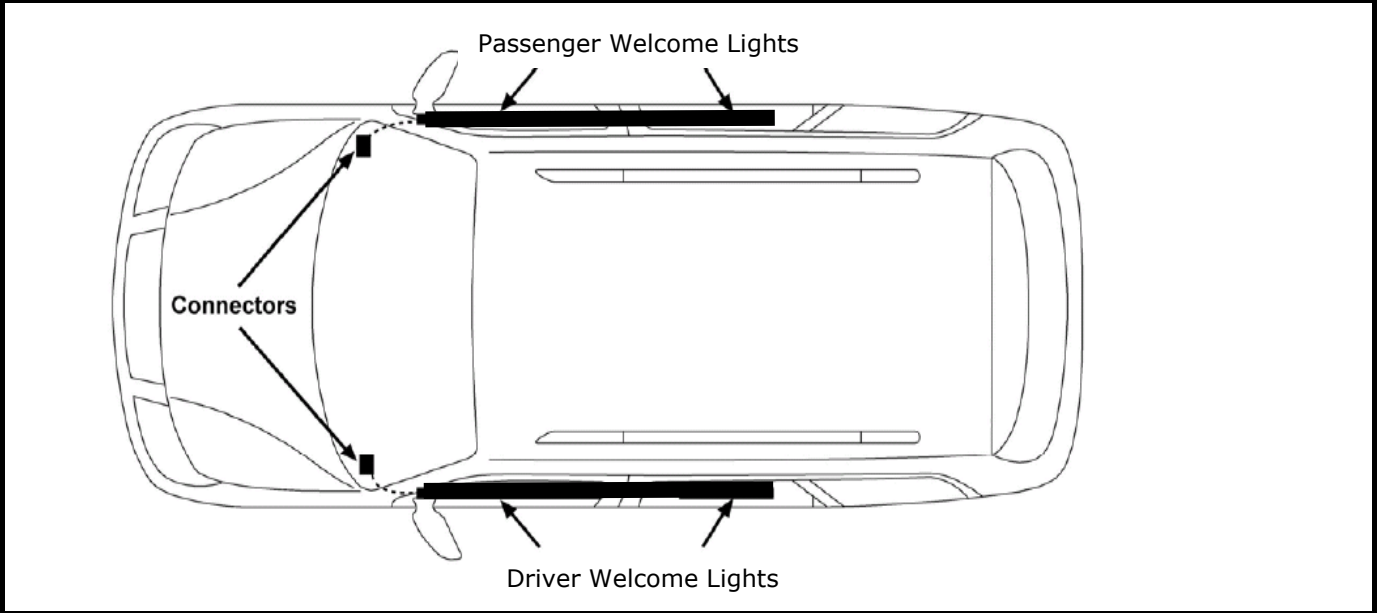
- Dealer installation recommended. Instructions may refer to Service Manual.
- Please read this instruction carefully before installing this product for correct installation.
- Please DO NOT use or install the part in ways other than what is described.
- Always use floor, seat and steering wheel protection.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

SECTION 1 - OVERVIEW

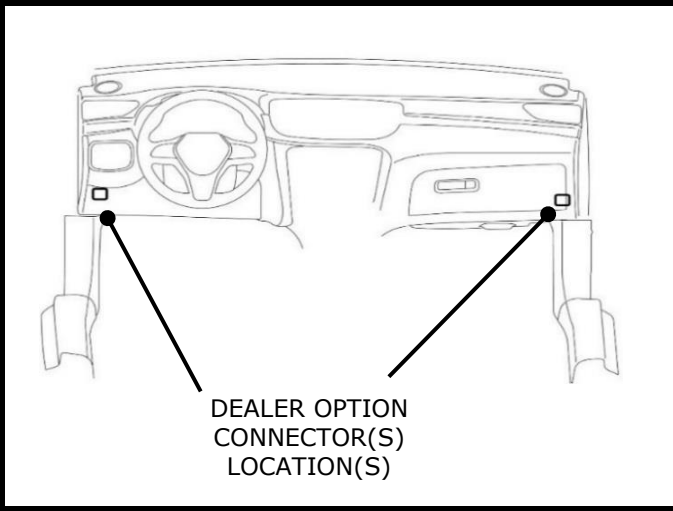
1.1) SYSTEM



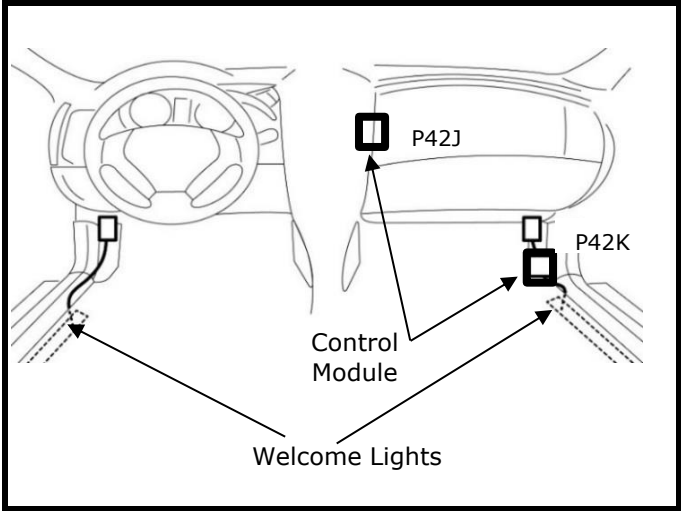
1.2) VEHICLE



1.3) D-OPT CONNECTOR LOCATION



1.4) VEHICLE - ROUTING



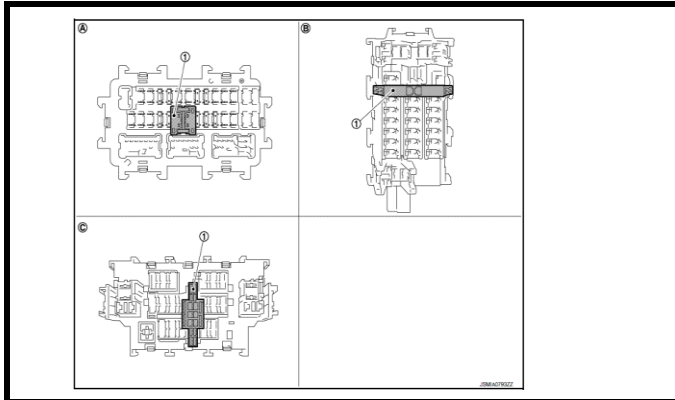
SECTION 2 - VEHICLE PREPARATION



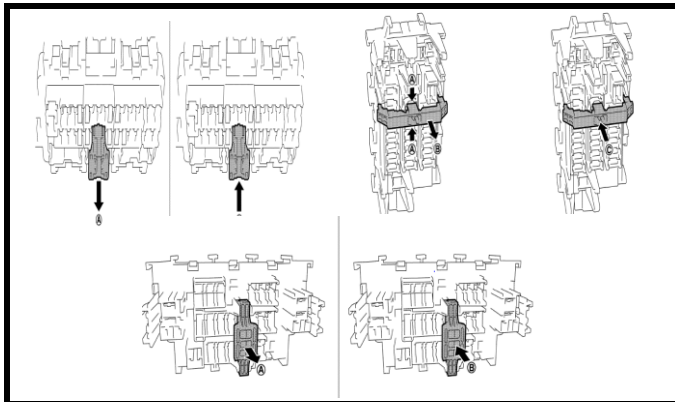
CAUTION

• 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.

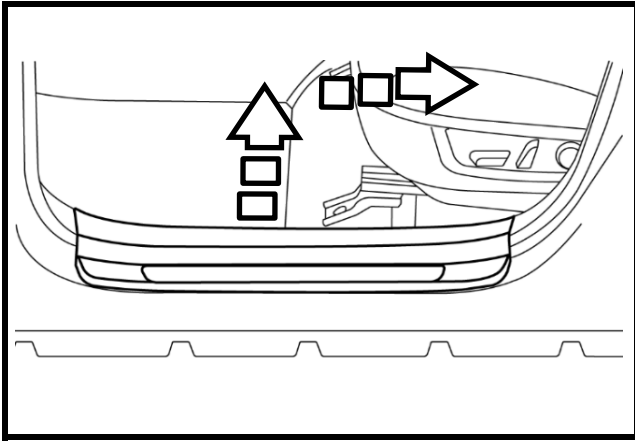
Condition	Switch Position	Note
Vehicle is delivered to the dealer	Transit (OUT)	
Vehicle is being stored at the dealer	Transit (OUT)	
Vehicle is delivered to customer	Customer (IN)	

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

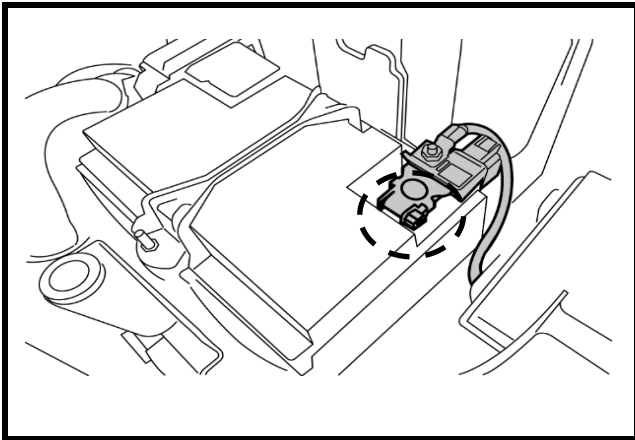
Preset	1	2	3	4	5	6	7	8	9	10

- Place ignition in "OFF" mode.

SECTION 2 - VEHICLE PREPARATION



- 2.4) Move seats.
- Move both front seats to full upward and rearward position.
 - Remove battery negative terminal

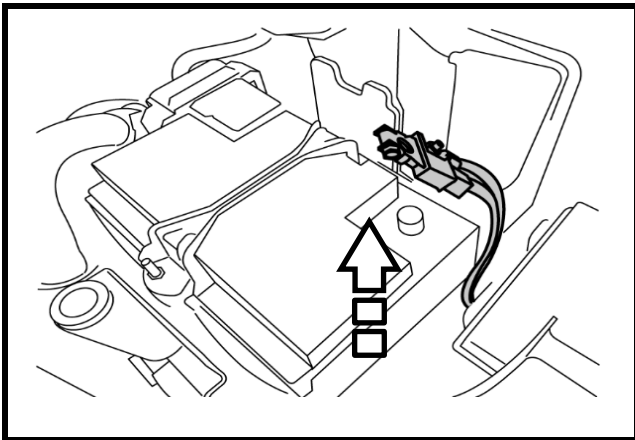


- 2.5) Disconnect battery terminal
- Locate negative battery terminal.
 - Loosen nut with 10mm socket.

Battery Terminal Nut 

CAUTION

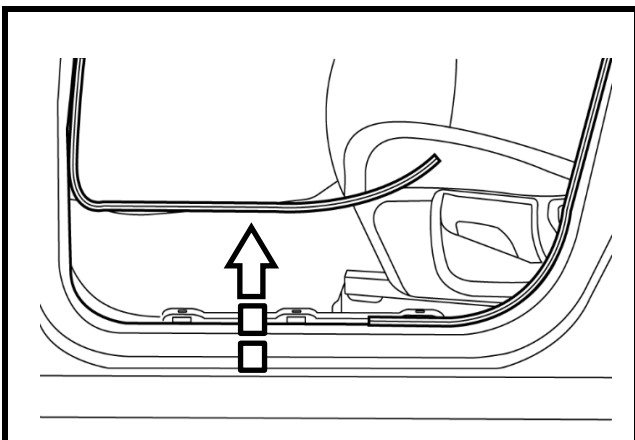
- Allow 3 min after key off with doors closed for vehicle power to time out.



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

CAUTION

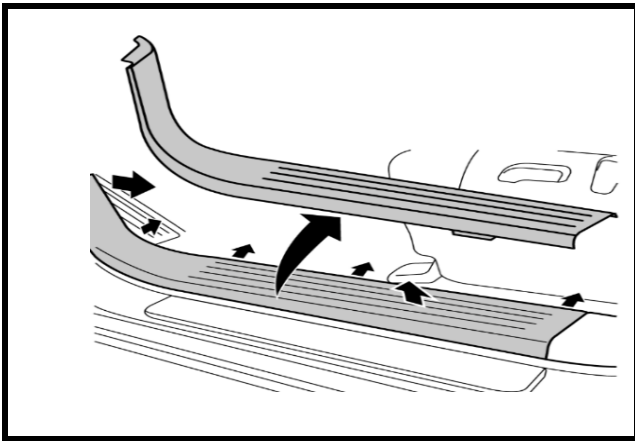
- Allow 3 min after negative terminal disconnect before separating any electrical connectors.



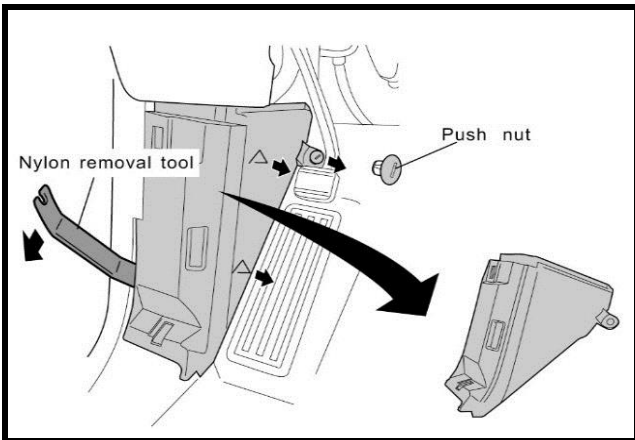
- 2.7) Remove LH trim
- Pull up on front LH door sill weatherstrip along front bottom edge only.

Caution:
Do not close doors with weatherstripping is pulled off edge.

SECTION 2 - VEHICLE PREPARATION



- 2.8) Remove LH trim
 - a) Locate LH lower kick trim.

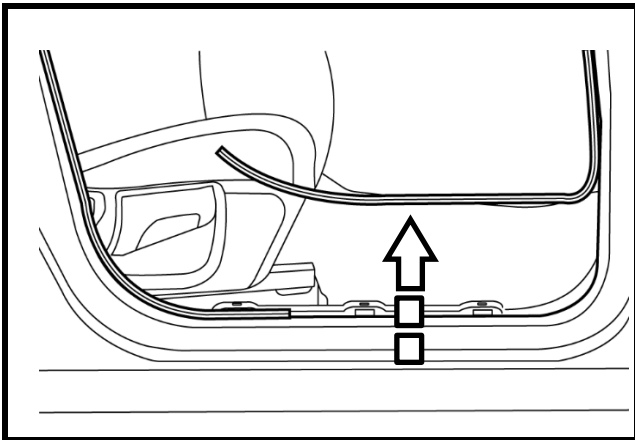


- 2.9) Remove LH trim
 - a) Remove trim fastener from lower kick trim by unscrewing with hand.
 - b) Disengage lower kick trim pawl by pulling toward interior of vehicle as shown.

Trim Fastener

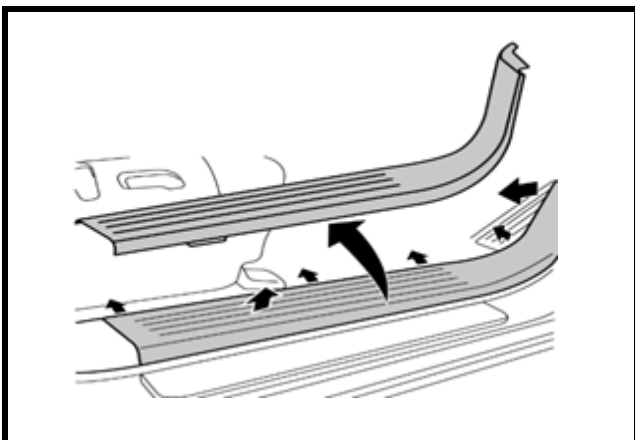


Pawl



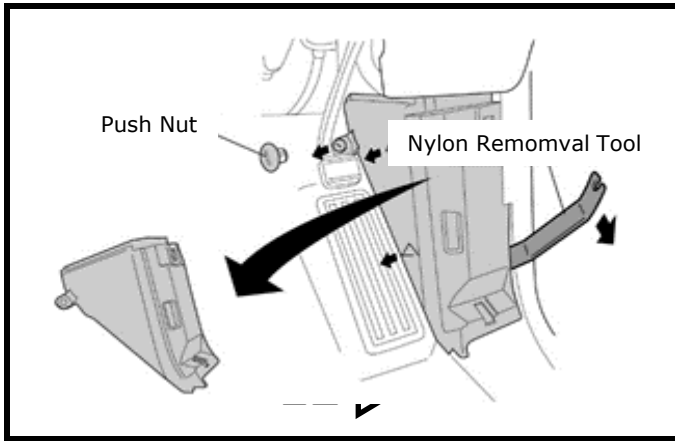
- 2.10) Remove RH trim
 - a) Pull up on front RH door sill weatherstrip along front bottom edge only.

Caution:
Do not close doors with weatherstripping is pulled off edge.



- 2.11) Remove RH trim
 - a) Locate LH lower kick trim.

SECTION 2 - VEHICLE PREPARATION

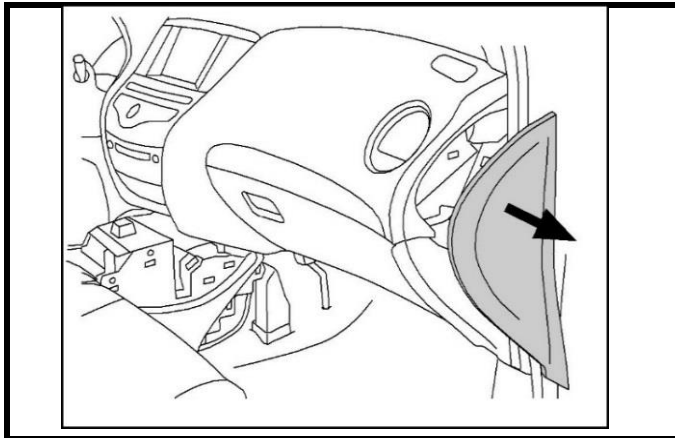


- 2.12) Remove RH trim
- Remove trim fastener from lower kick trim by unscrewing with hand.
 - Disengage lower kick trim pawl by pulling toward interior of vehicle as shown.

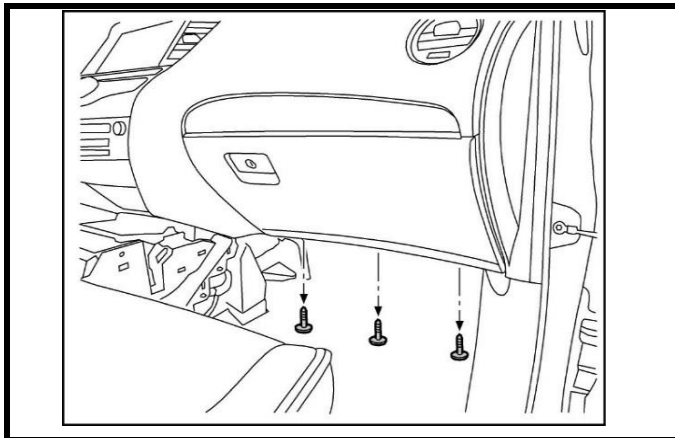
Trim Fastener



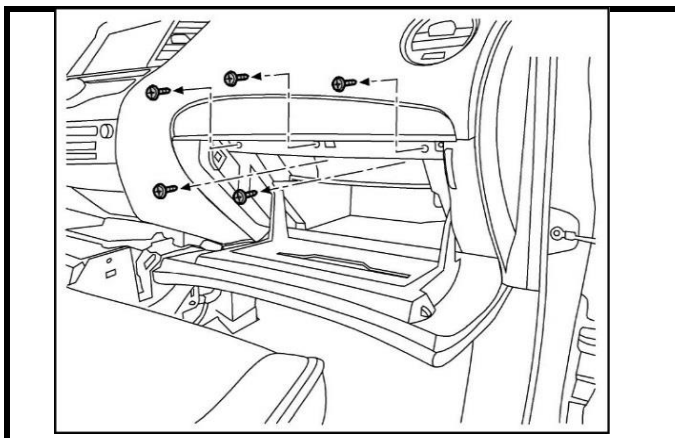
Pawl



- 2.13) Carefully pry off the dash side mask by passenger door.

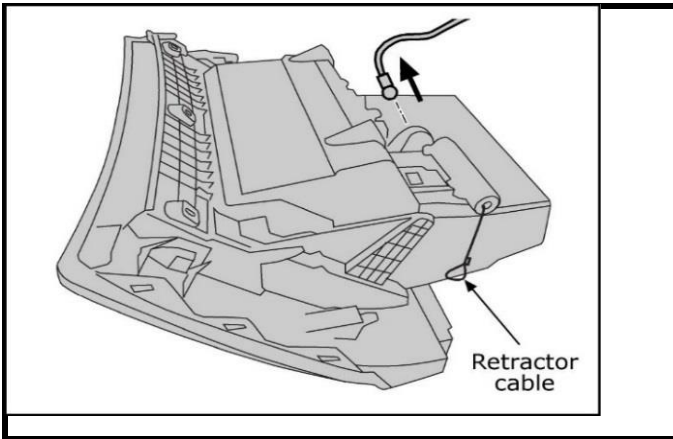


- 2.14) Remove three (3) phillips head screws from underside of the glovebox.

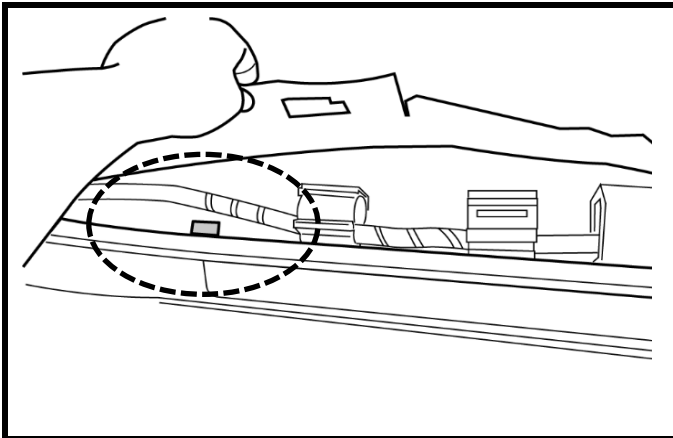


- 2.15) Open glovebox door. Remove five (5) phillips head screws from inside glovebox compartment.

SECTION 2 - VEHICLE PREPARATION

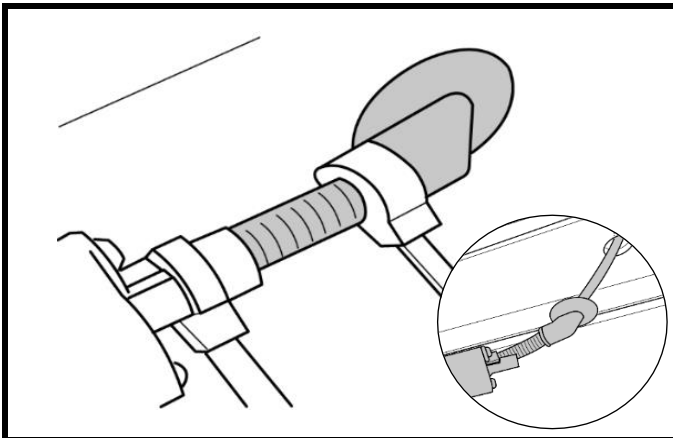


- 2.16) Carefully pull out glovebox assembly. Remove glovebox lamp. Fully remove glovebox assembly and set aside.



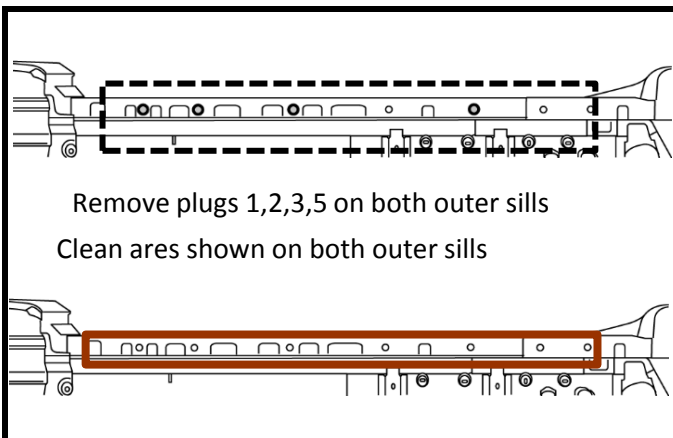
- 2.17) Expose the sill inner hole for harness pass through.
- a) Remove carpet from attachment hooks on harness clips.
 - b) Carefully peel back tape disk to expose access hole on inside surface of door sill. Hole is almost directly across from exterior access hole.

NOTE: Reinstall weather strip before closing doors.



- 2.18) Prep both light bars for mounting
- a) Cut two (2) 40 mm pieces of convoluted tubing and slide convoluted tubing over harness and secure to light bar end with tie strap.
 - b) Slide one of the grommets over wire and tie strap to convolute tubing as shown. [Feed wire in through tube end of grommet.]

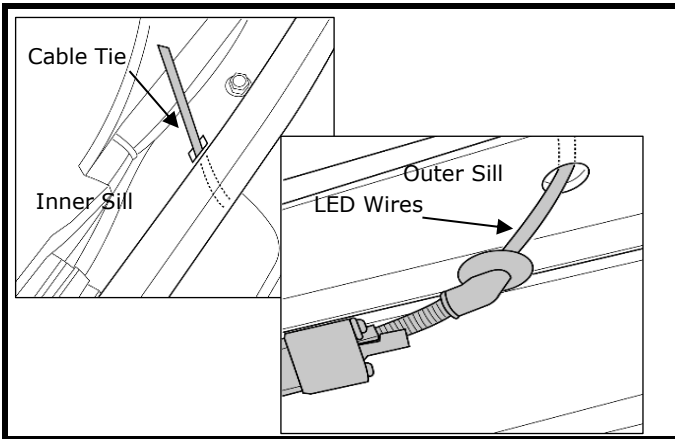
Lift Vehicle to prepare for Light Bar installation.



- 2.19) Remove plugs numbers 1,2,3,5 from outer sill area on boths sides of the vehilce
- a) Wipe area around plug holes.
 - b) Clean area 200 mm either side of the plugs removed with alchol wipes.

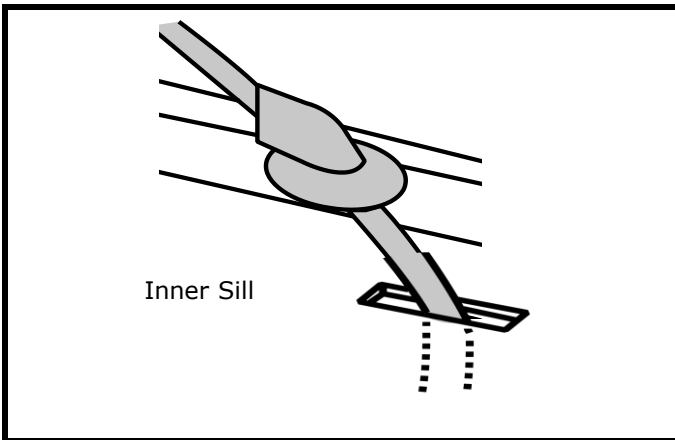


SECTION 3 - Install



3.1) Fed tie strap through rectangular hole in inner sill (Drivers Side) shown in Fig 2.17 and out sill hole #1 in the outer sill.

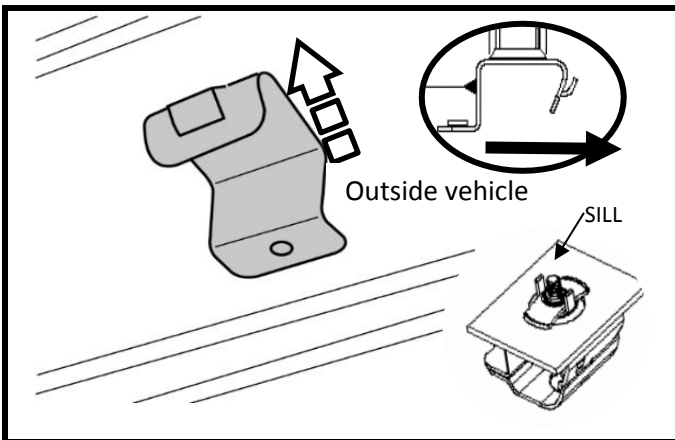
- a) Tape light bar harness to tie strap and feed harness through to inside vehicle.
- b) Seat grommet in outer sill while feeding the harness into the vehicle.



3.2) Slide grommet over harness inside vehicle as shown and seat grommet in rectangular hole.

NOTE:

Mineral Oil can be used to lubricate the grommet before insertion grommet in inner sill rectangular hole.



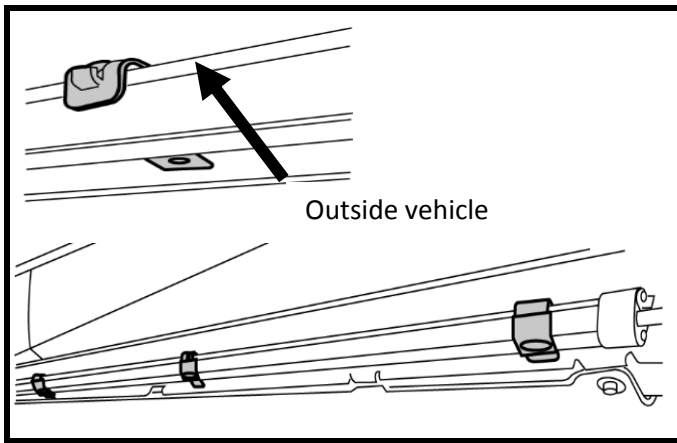
3.3) Install top half of the six brackets in holes 2,3,5 on both sides of the vehicle.

- a) Insert wing into hole in sill to hold bracket.
- b) Hold brackets square to pinch weld.
- c) Torque screws to 2-3 Nm maximum.



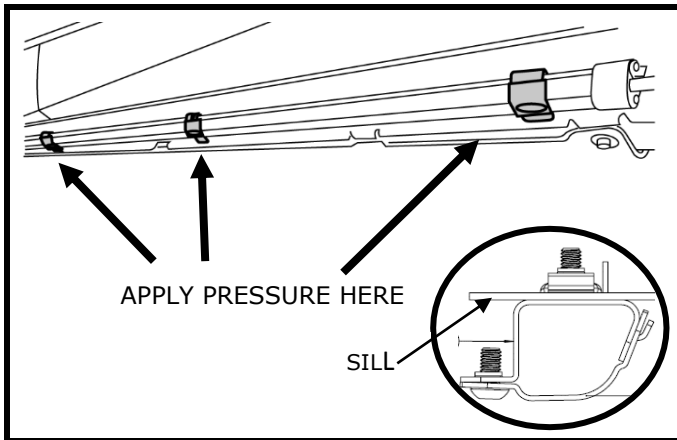
3.4) Bar labeled 13L on label is mounted on the Driver's side and Bar labeled 13R on label is mounted on the Passenger side.

SECTION 3 - Install



3.5) Mount Light Bars

- a) Carefully line up grommet with hole in sill and seat, remove tape shield and snap light bar into bracket.
- b) Snap light bar into brackets by placing curved surface of bar into curved part in bracket facing outboard and snap toward inside of vehicle.
- c) Hook lower bracket to upper and secure with screw.
- d) Torque screw to 2.0-3.0 Nm.



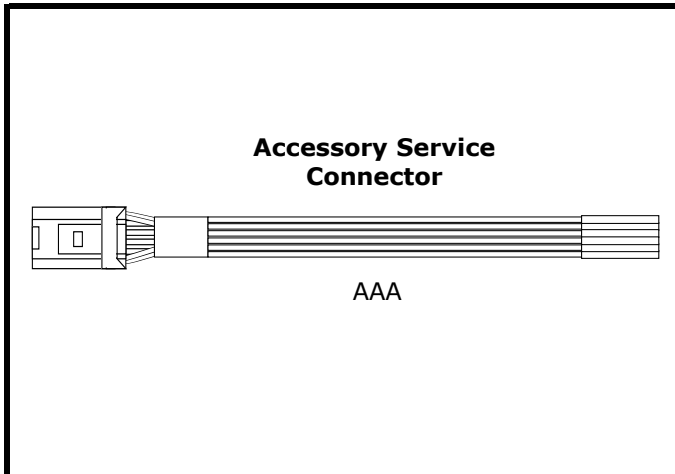
3.6) Secure body tape

- a) Once bars are secured in brackets apply 15 lbs pressure for 20 seconds along three areas that have body tape.

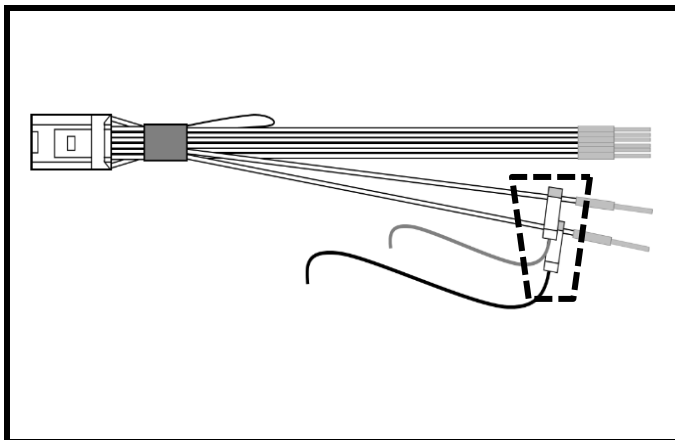
SECTION 4 - ASC CONNECTION & FUNCTION CHECK

CAUTION

- The 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 the installation instructions for said connector being mentioned herein may result in damage to the 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.



- 4.1) Connect Accessory Service Connector
 - a) Accessory Service Connector (AAA) pin-out is shown.
 - b) For direction on how to connect Posi-Tap refer to Appendix A.
 - c) For additional circuit information refer to Appendix B.

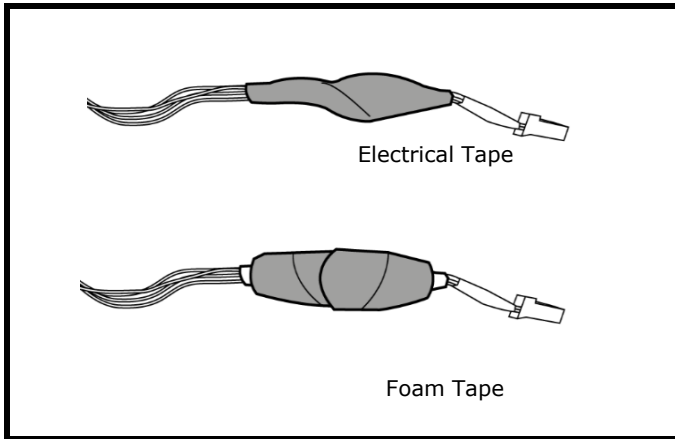


- 4.2) Installing Posi-tap™ on LH (Driversr side) Accessory Service Connector.
 - a) Black wire from LED Harness to Black wire on Accessory Service Connector Harness.
 - b) Red wire from the LED Harness to the Grey wire on the Accessory Service Connector Harness.

Posi Tap (F)

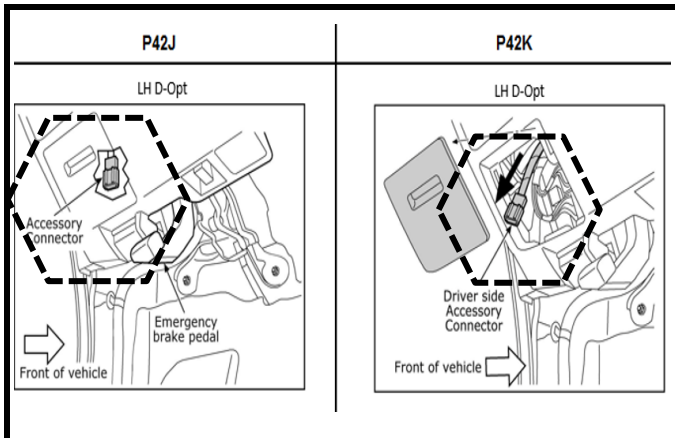


SECTION 4 - ASC CONNECTION & FUNCTION CHECK



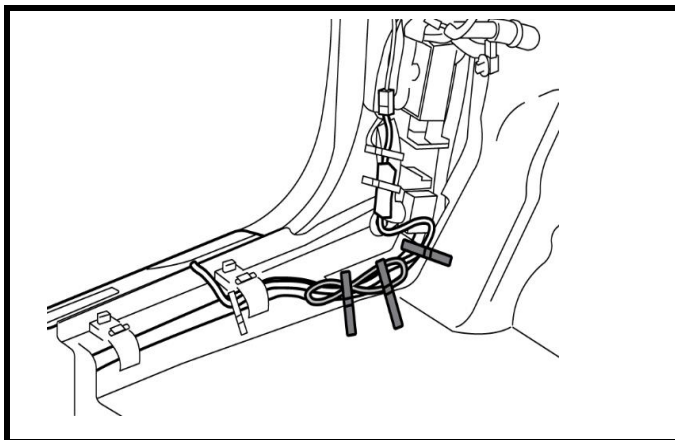
4.3) Wrap Posi-Taps and any excess wiring from LED harness to the Accessory connector harness and with electrical tape as shown.

- a) Wrap posi taps with electrical tape.
- b) Wrap electrical tape bundle with foam tape.



4.4) Plug Accessory Connector Harness into vehicle connector plug on LH (Driver side).

- a) Route accessory connector along left side of fuse block and then slide to right side to connect to accessory connector.
- b) Tie strap behind the fuse block as required.
- c) Remove the fuse block cover to find the ASC.



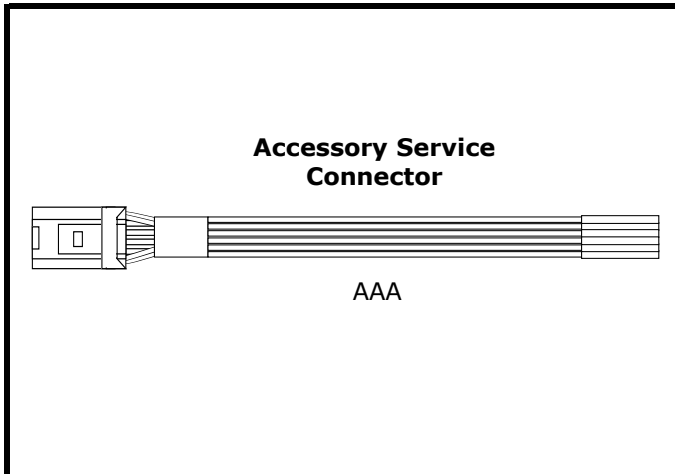
4.5) Dress excess harness as and tie strap as shown.

NOTE:

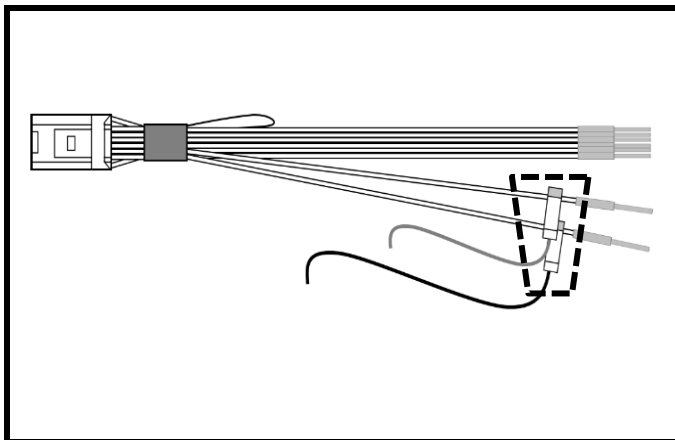
Recommended spacing for cable ties is 100mm to 120mm. Position cable ties as shown.

CAUTION

- The 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 the installation instructions for said connector being mentioned herein may result in damage to the accessory and/or your vehicle.
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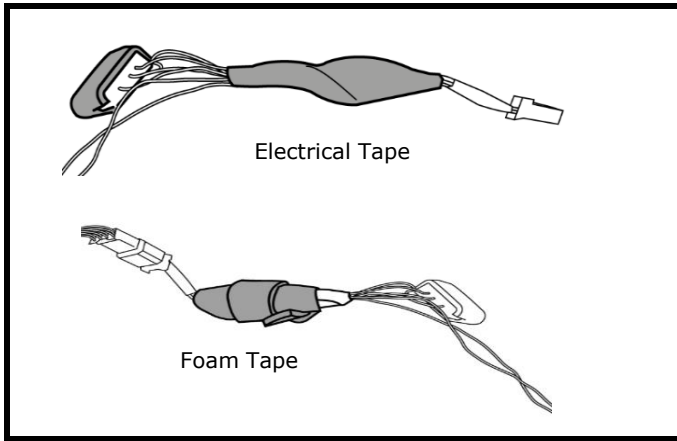
- 4.6) Connect Accessory Service Connector
- a) Accessory Service Connector (AAA) pin-out is shown.
 - b) For direction on how to connect Posi-Tap refer to Appendix A.
 - c) For additional circuit information refer to Appendix B.



- 4.7) Installing Posi-tap™ on RH (Passengers side) Accessory Service Connector.
- a) Black wire from Control Module to Black wire on Accessory Service Connector Harness.
 - b) Pink wire from Control Module to Pink wire on Accessory Service Connector Harness.
 - c) Yellow wire from Control Module to Lt Blue wire on Accessory Service Connector Harness.
 - d) White wire from Control Module to Purple wire on Accessory Service Connector Harness.
 - e) Grey wire from the Control Module to Grey wire on the Accessory Service Connector
 - f) Black wire from LED Harness to Black wire on the Controller Module Harness.
 - g) Red wire from LED Harness to Grey wire on Controller Module Harness.

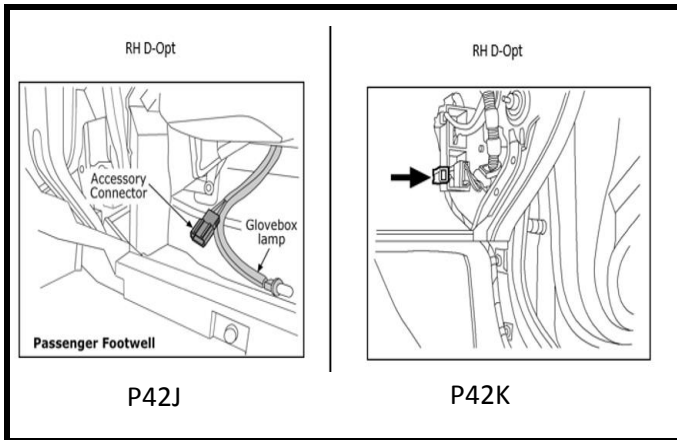


SECTION 4 - ASC CONNECTION & FUNCTION CHECK

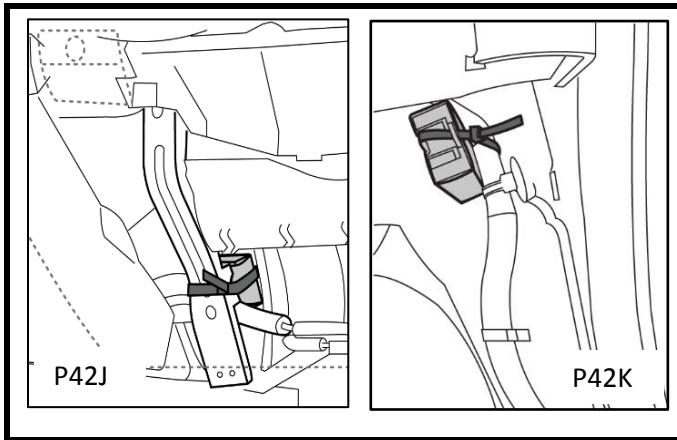


4.8) Wrap Posi-Taps and any excess wiring from LED harness to the Accessory connector harness and with electrical tape as shown.

- a) Wrap posi taps with electrical tape. Tape all the way to Accessory Service Connector.
- b) Wrap electrical tape bundle with foam tape.



4.9) Plug Accessory Connector Harness into vehicle connector plug on RH (Passenger side).

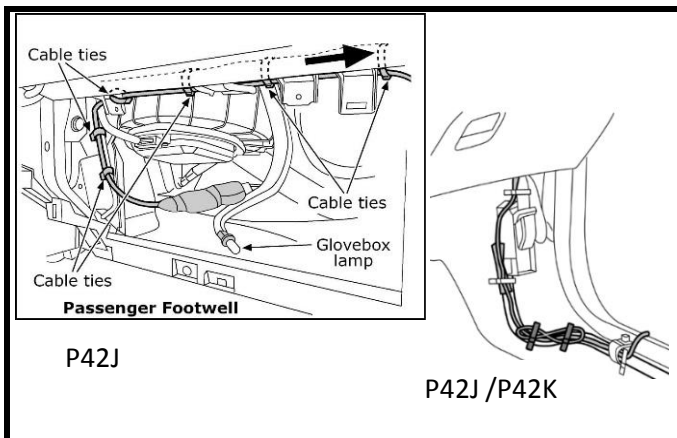


4.10) Mount Control Module

- a) [P42J] Tie strap module and posi tap bundle to the bracket next to the AC. Wrap with foam tape. Make sure neither interfere with glove box install.
- b) P42K tie strap module to harness along side A pillar and wrap in foam tape.

NOTE:

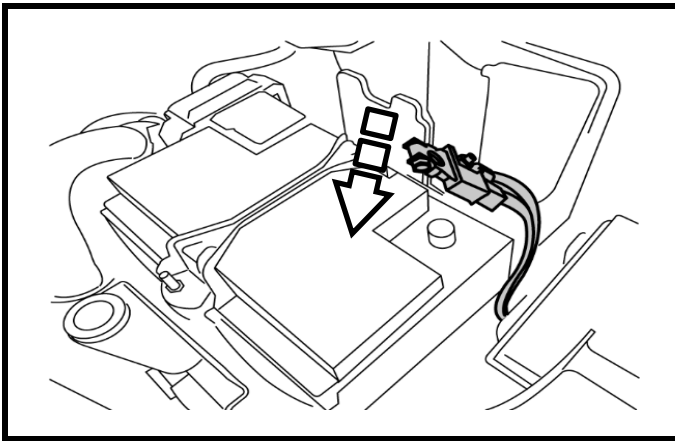
Recommended spacing for cable ties is 100mm to 120mm. Position cable ties as shown.



4.11) Dress excess harness as and tie strap as shown

- a) Do not tie harness to drain tube running along the wiring harness on the passenger side.

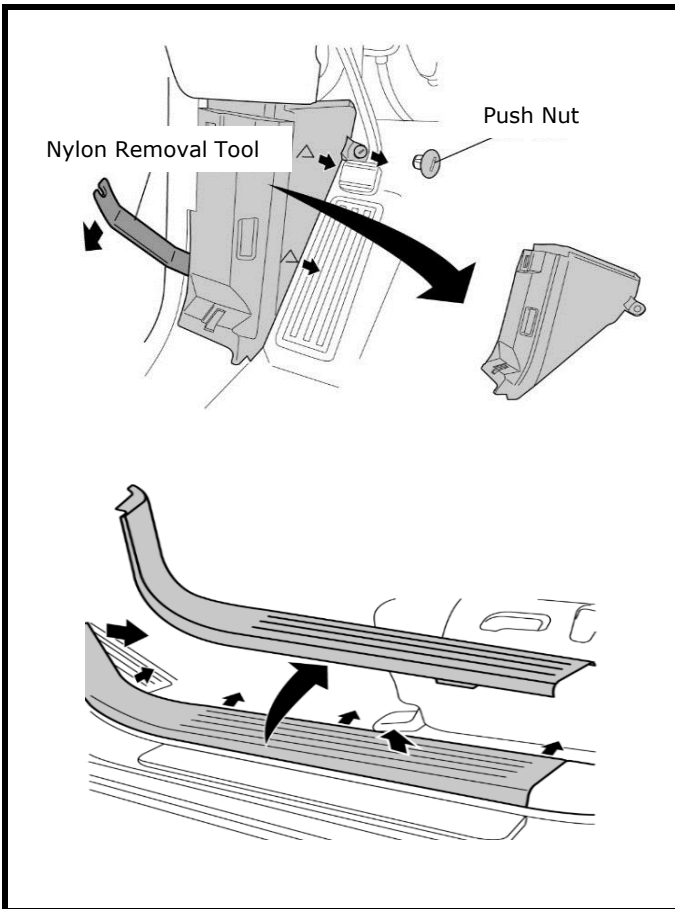
SECTION 5 - FINAL



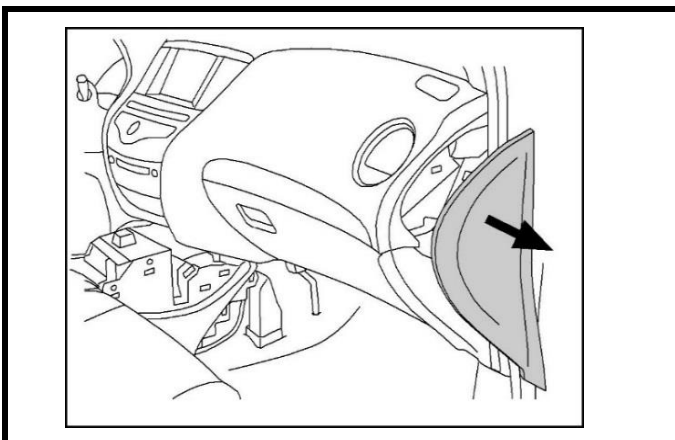
- 5.1) Electrical function check
- Reconnect the battery negative terminal.
 - Close all doors.
 - Re-connect negative battery cable
 - Use key unlock and lock on key fob and check if lights follow room lamp operation.
 - Verify the security lighting turns on and off with the dome lamp in the car.
- If NG, check harness routing, connections, and module to identify root cause.

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.



- 5.2) Re-Installation of Trim
- For P42K route accessory connector along A pillar.
 - Reinstall the drivers side trim panel along the bottom door seal.
 - Do not tie harness to drain tube running along.



- 5.3) Reinstall Glove Box
- Reinstall glove box in the reverse order as removal.
 - Reinstall side panel.

NOTE:
Be sure all clips are properly aligned. Be careful not to damage any clips on the panels during reinstallation.

 **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.

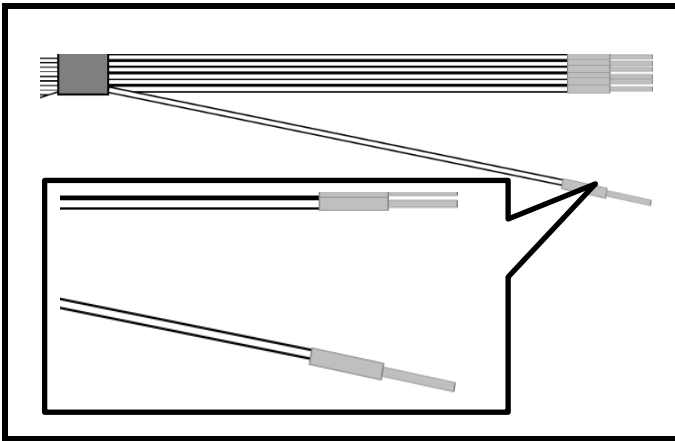
5.4) Complete checklist:

- Tighten battery terminal nut to 5 N-m.
- Re-install underhood air box assembly
- Verify re-installed trim parts for proper fit (no gap, waviness, etc.), particularly the door sill
- 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.

5.5) Accessory Final checklist:

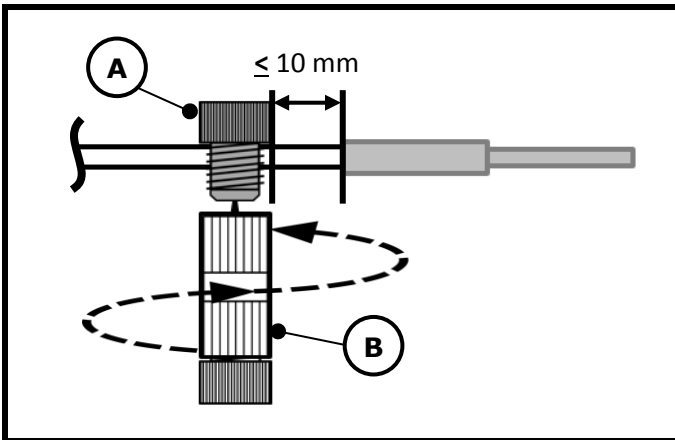
- Close all doors.
- Using the keyless entry fob, press the door unlock.
- Verify the security lighting turns on and off with the dome lamp in the car.
- Enter the car and press the door unlock and then start the car.
- Verify the welcome lamps turn off when the car starts.
- With the car running, shifter in park, open the door and verify the lights remain off.
- Turn off car and open door again and verify welcome lights and dome lamp
- Unlock the doors, wait and then lock the doors. The welcome lighting should turn off with the dome lamp.

APPENDIX A - POSI-TAP PROCEDURE



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

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

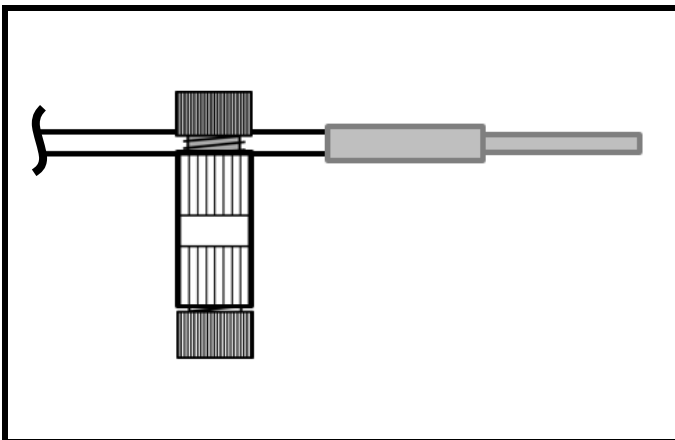


A.2) Installing Posi-Tap™ on ASC (AAA)

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

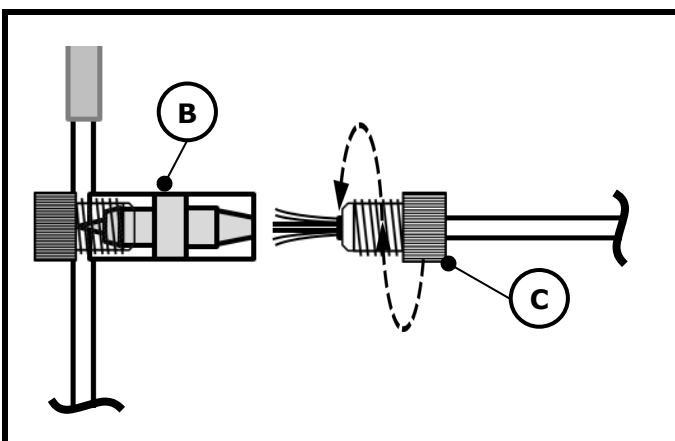
CAUTION

Do not overtighten Posi-Tap, it may damage wire



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

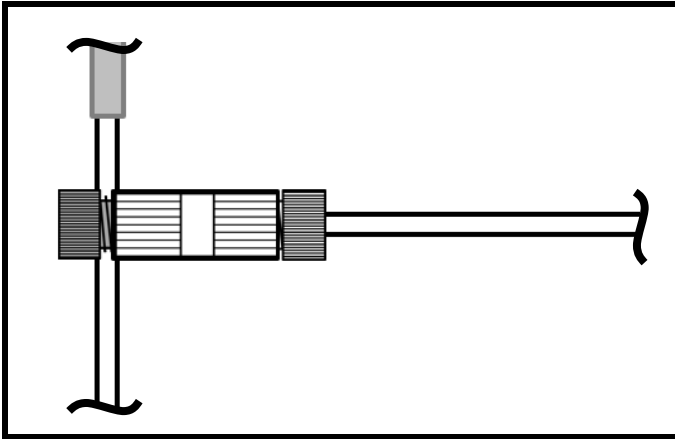
- a) Inspect Posi-Tap™ to ensure correct installation.
- b) Wire jacket should be crushed enough to maintain pressure.
- c) Confirm tap cap gap is straight and evenly spaced around perimeter.



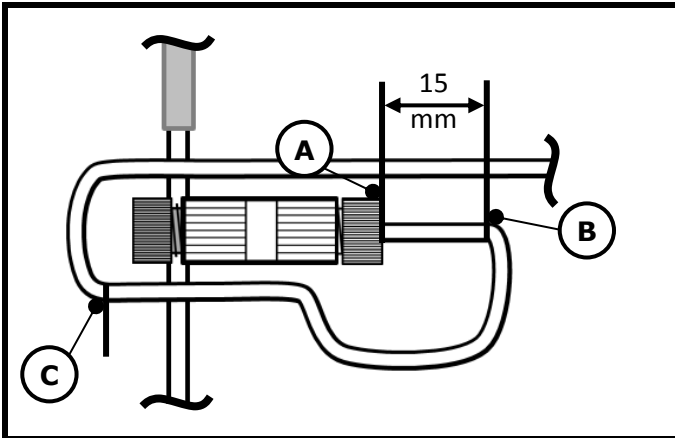
A.4) Installing Accessory wire into Posi-Tap™

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

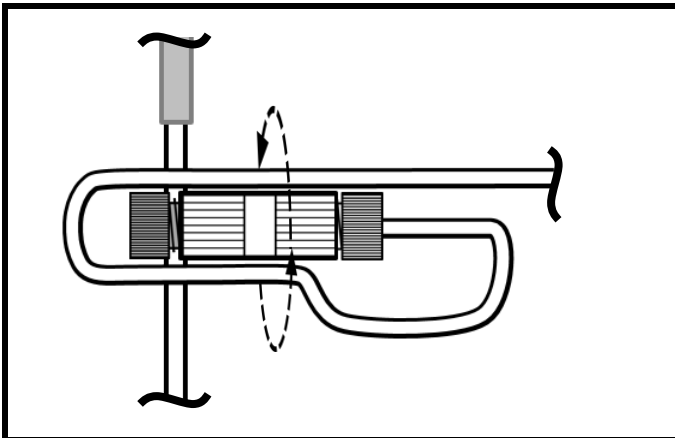
APPENDIX A - POSI-TAP PROCEDURE



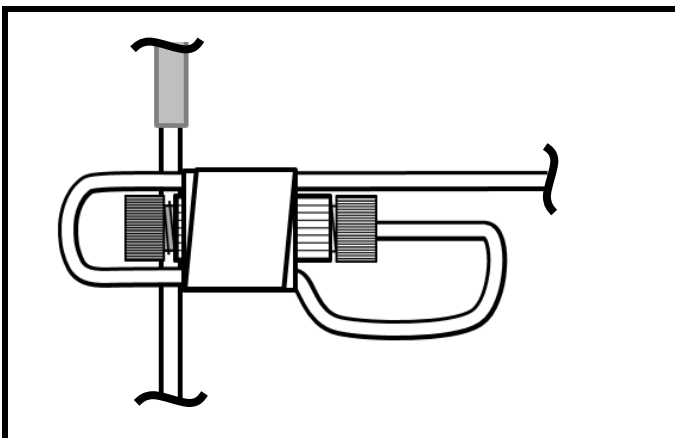
- A.5) Installing accessory wire into Posi-Tap™
- Confirm tap bottom gap is straight and evenly spaced around perimeter
 - Gently pull on wire to confirm secure connection.



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



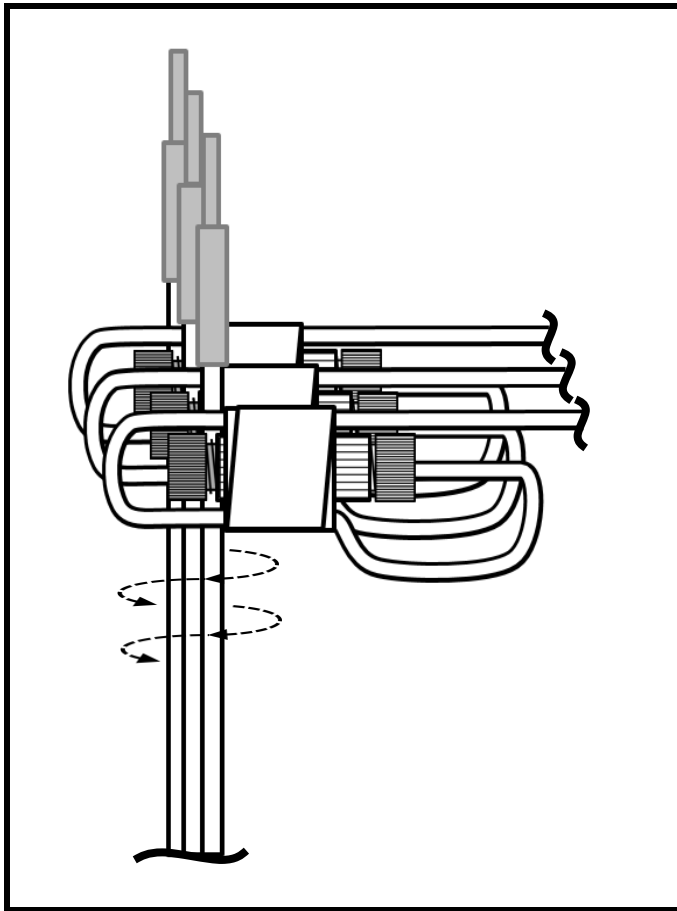
- A.7) Accessory wire strain relief
- Secure accessory wire strain relief to tap body with electrical tape (≥ 2 revolutions).



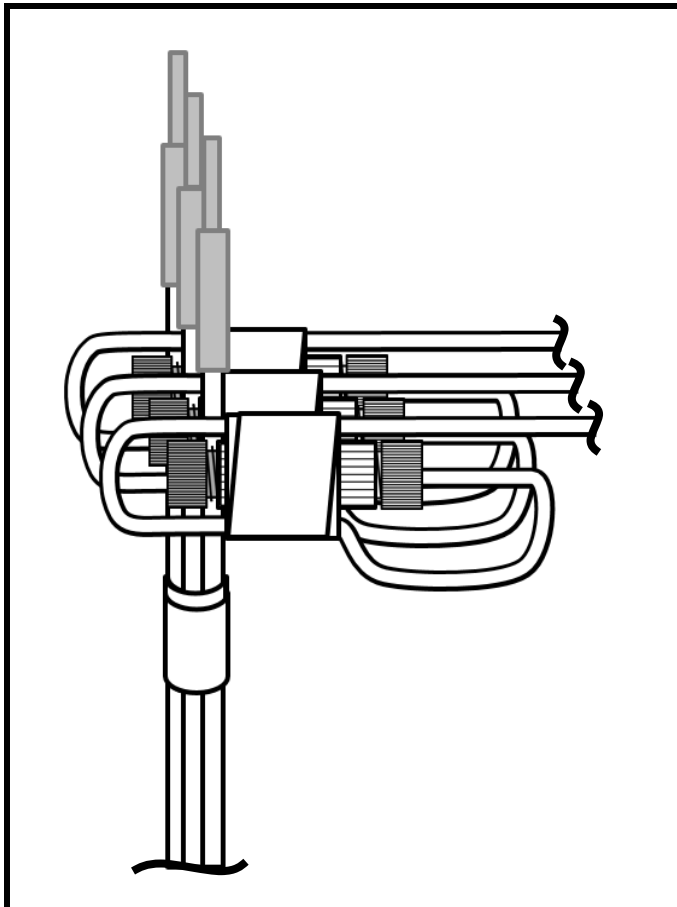
- A.8) Accessory wire strain relief
- Once accessory wire strain relief is taped to tap body, it should look as shown.

- A.9) Installing Posi-Tap™ on ASC (AAA)
- Repeat steps A.1 - A.8 for all other wires requiring a Posi-Tap™.

APPENDIX A - POSI-TAP PROCEDURE

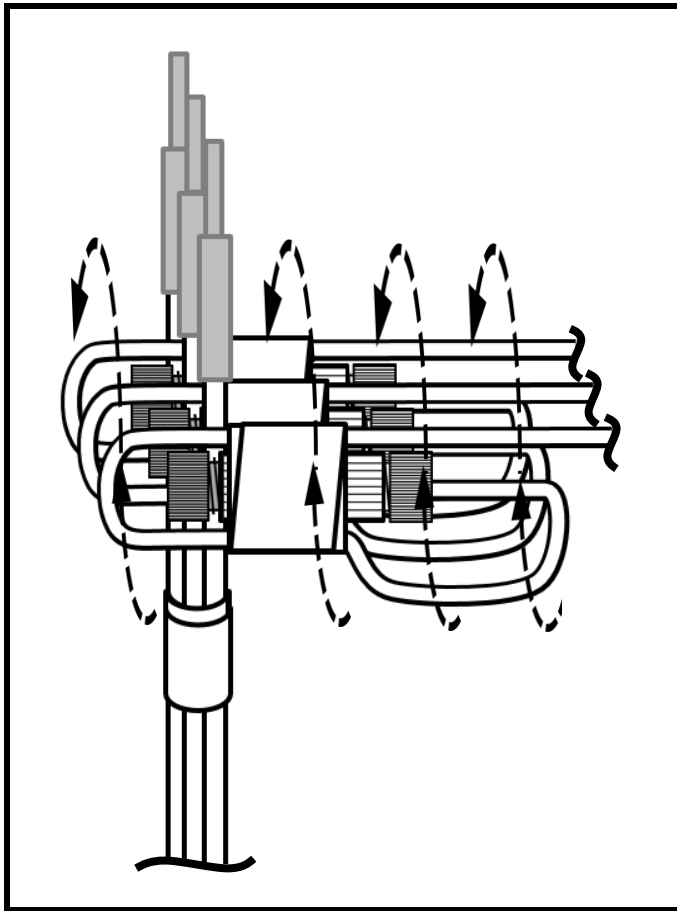


- A.10) Securing multiple Posi-Taps™ together
- a) Stack Posi-Taps™ in slightly staggered fashion as shown.
 - b) Secure tapped circuits together with electrical tape (≥ 2 revolutions).

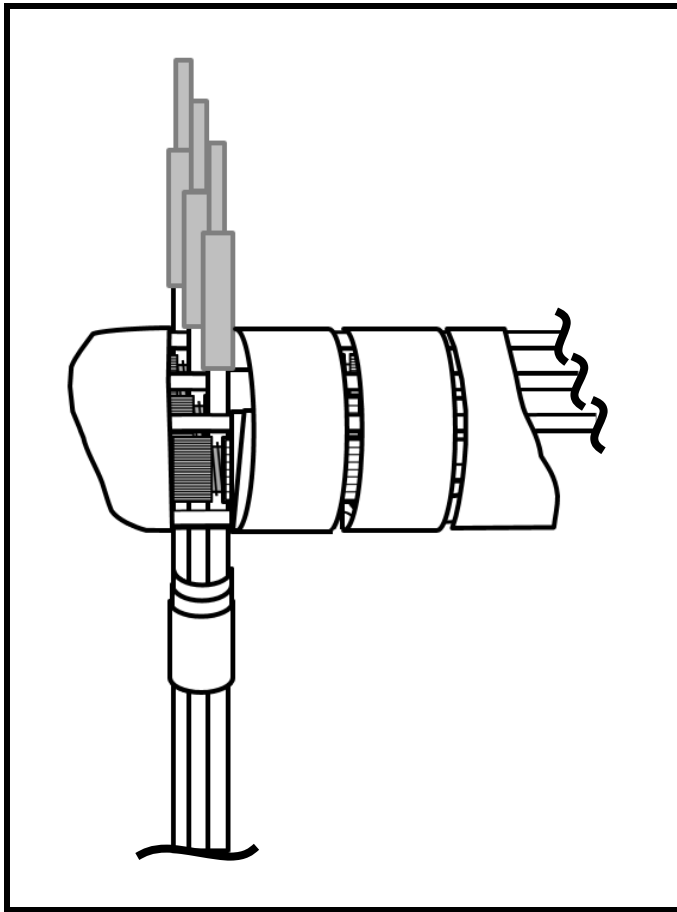


- A.11) Securing multiple Posi-Taps™ together
- a) Once tapped circuits are secured together with electrical tape they should look as shown.

APPENDIX A - POSI-TAP PROCEDURE

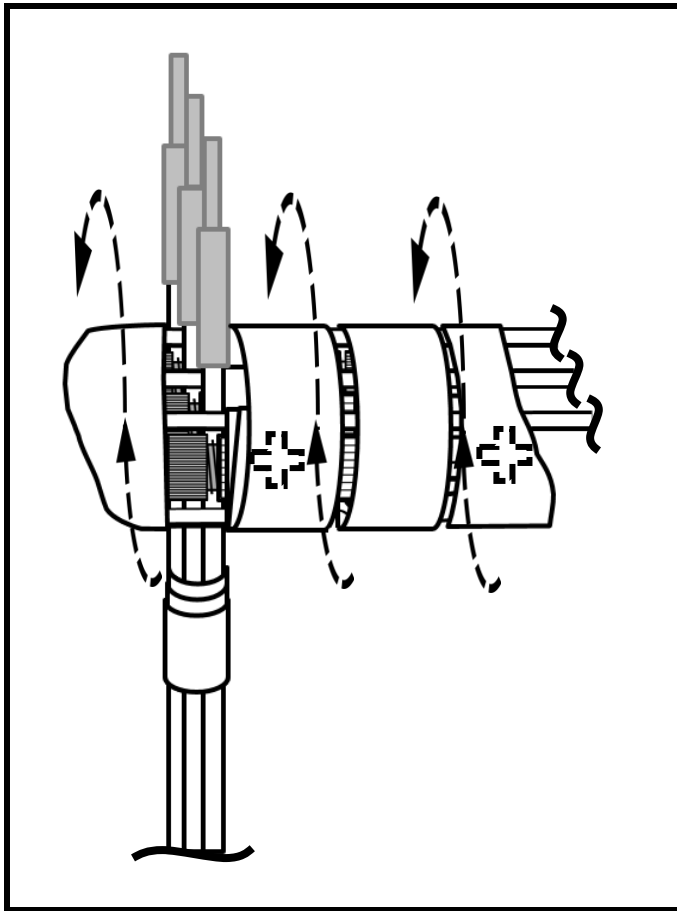


- A.12) Securing multiple Posi-Taps™ together
a) Secure Posi-Taps™ together with electrical tape (≥ 4 revolutions).



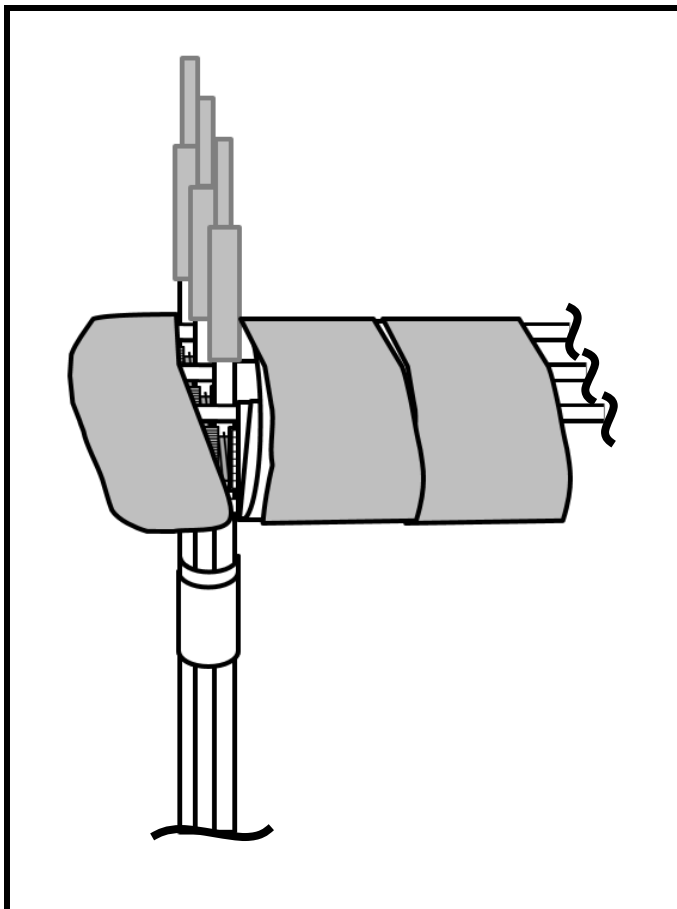
- A.13) Securing multiple Posi-Taps™ together
a) Once Posi-Taps™ are secured together with electrical tape they should look as shown.

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 (X) to wrap pre-taped Posi-Taps™.

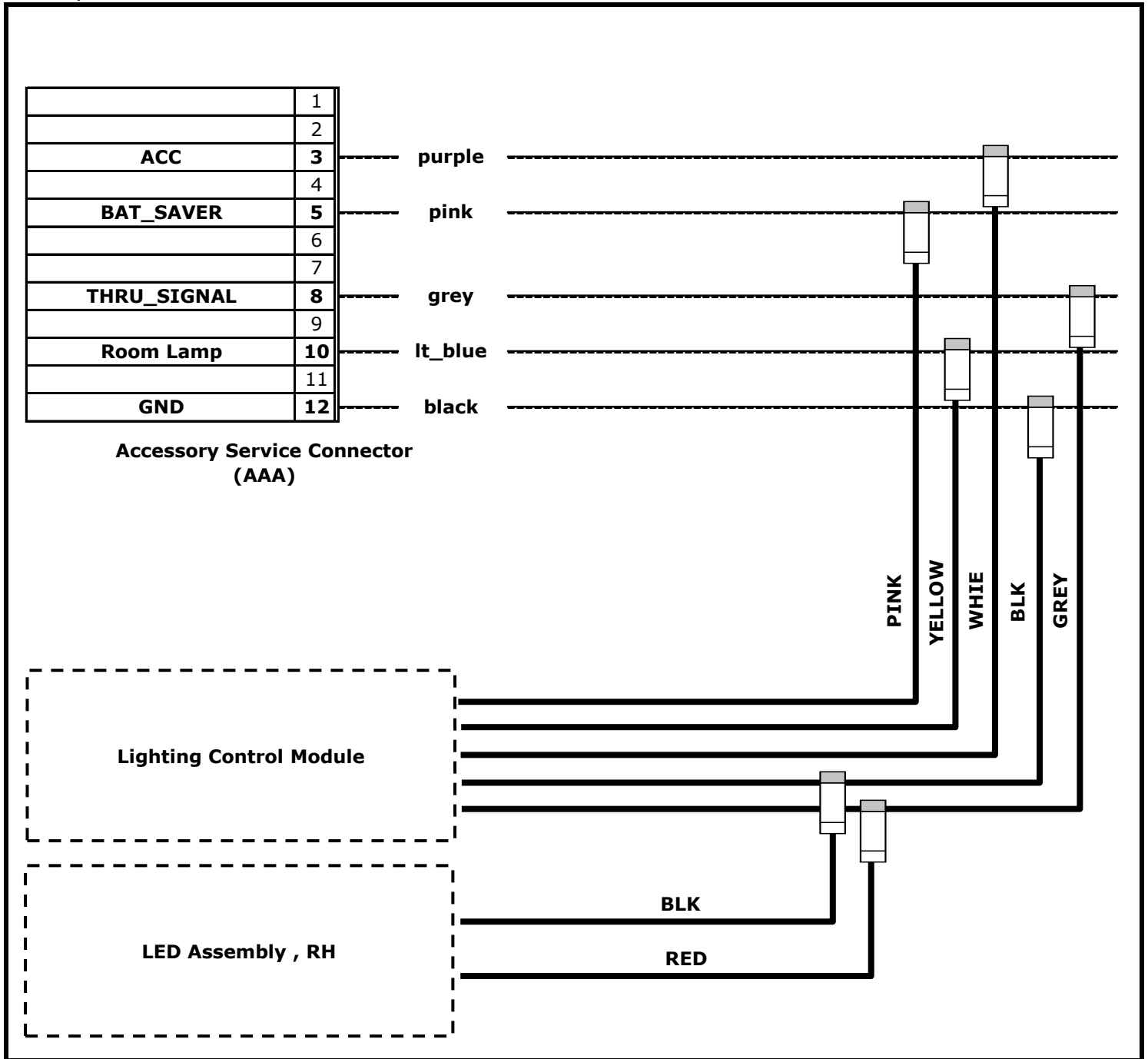
Foam Tape (X)



- A.15) 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 Welcome Lighting connected to the RH ASC



CONNECTOR PN#	999Q9 AY001 / T99F6 4RA0A
CONNECTOR NAME	ACCESSORY SERVICE CONNECTOR
CONNECTOR COLOR	WHITE

UNIT

LEGEND

POSI-TAP

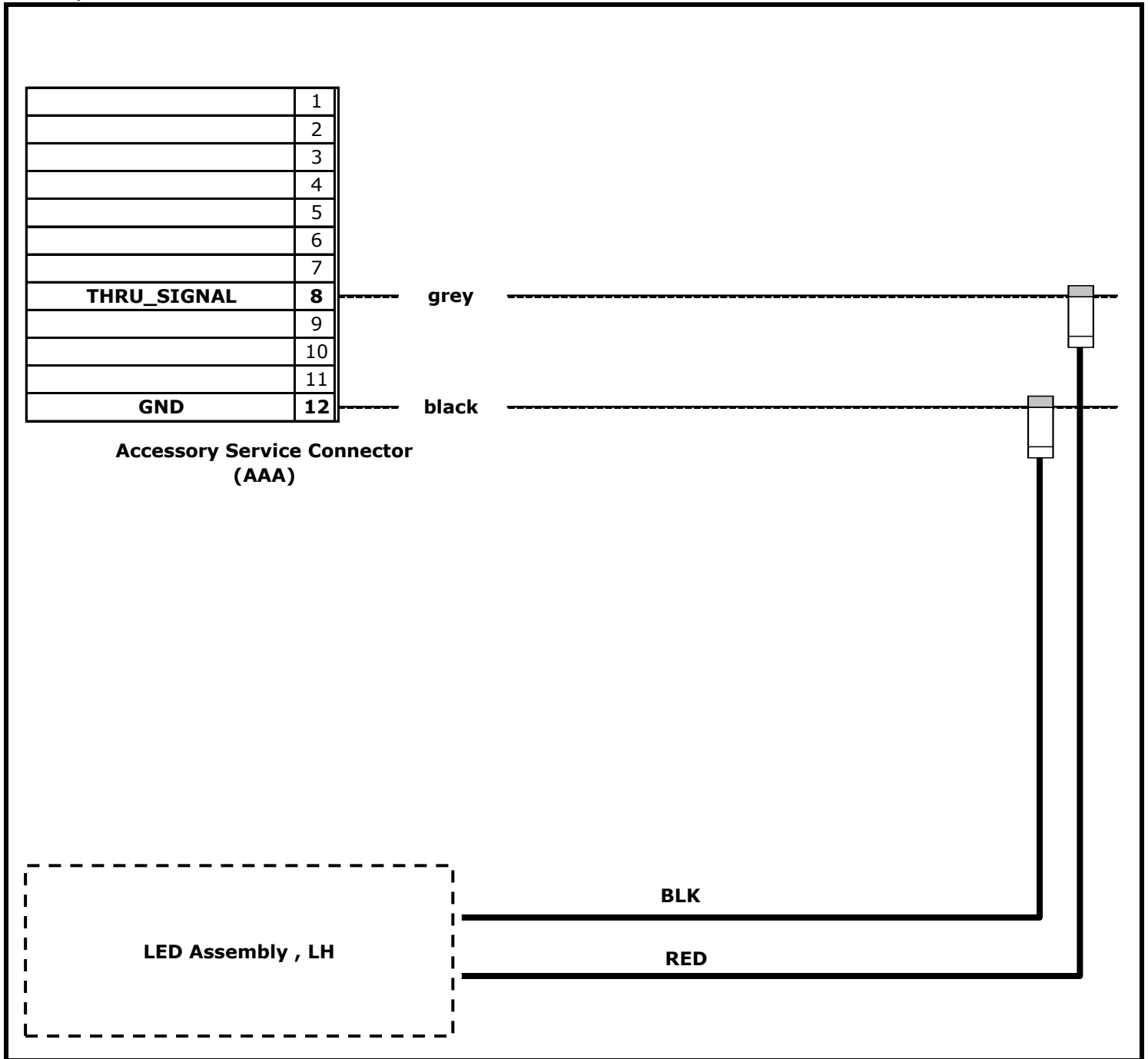
GRAY - CIRCUIT TAP (PIERCE) SIDE

RED - ACCESSORY (INSERT) SIDE

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


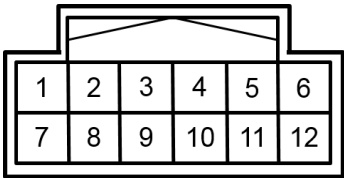
APPENDIX B - MECHANIZATION DRAWING

B.1) Figure below applies to the Welcome Lighting connected to the LH ASC




CONNECTOR PN#	999Q9 AY001 / T99F6 4RA0A
CONNECTOR NAME	ACCESSORY SERVICE CONNECTOR
CONNECTOR COLOR	WHITE

UNIT

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.