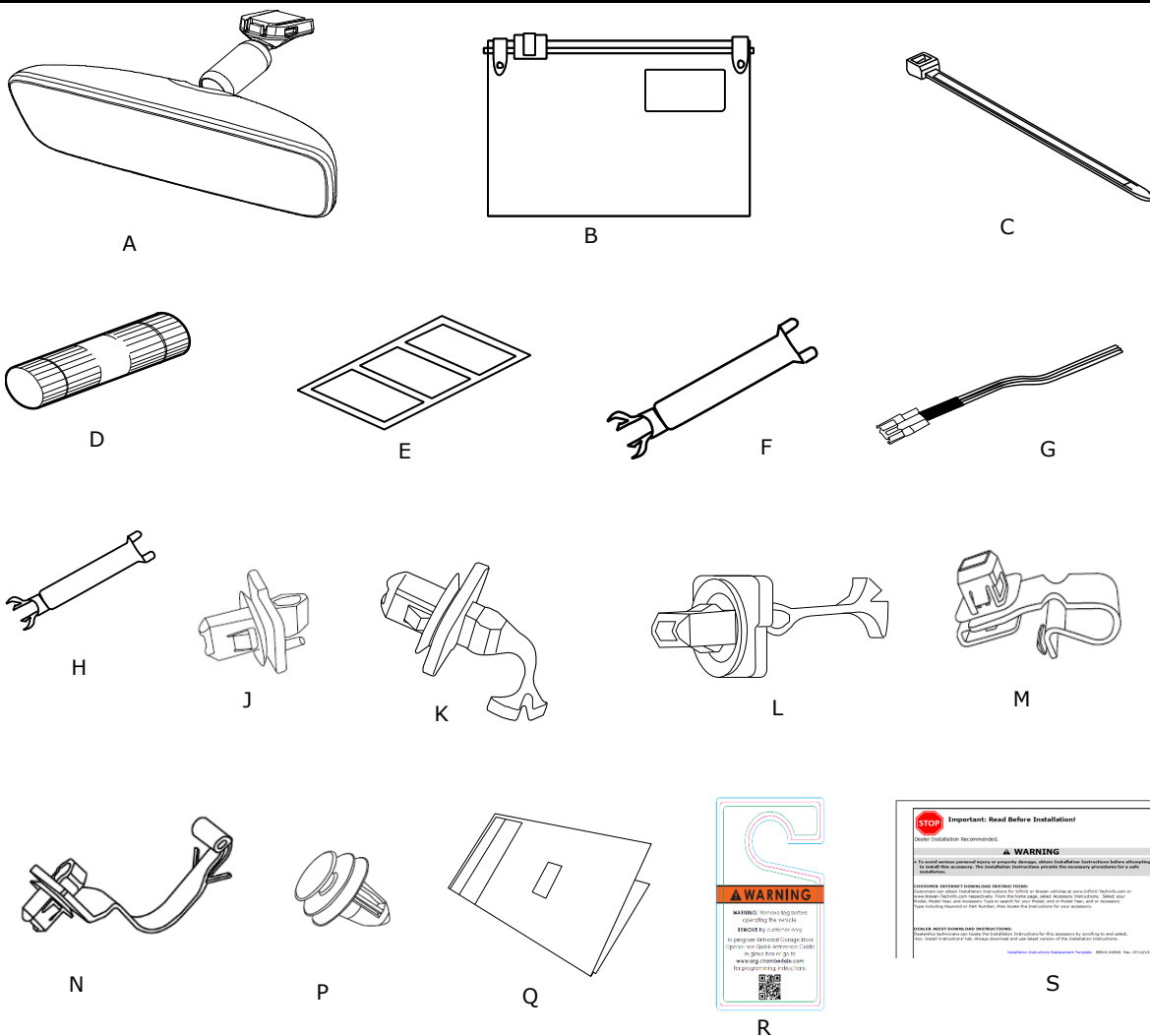




GENUINE PARTS

INSTALLATION INSTRUCTIONS

DESCRIPTION:	Frameless EC Mirror With UGDO (ARQ)
APPLICATION:	Frontier
PART NUMBER(S) REQUIRED FOR INSTALLATION:	T99L1 5ZW14 - Frameless EC mirror With UGDO (ARQ) Kit
	T99F6 4RA0A , Accessory Service Connector - not included in kit above
KIT CONTENTS:	



ADDITIONAL SERVICE PARTS NOT INCLUDED IN KIT ABOVE :

Item	Qty.	Part Description	Service Part Number
AAA	1	Accessory Service Connector	T99F6 4RA0A

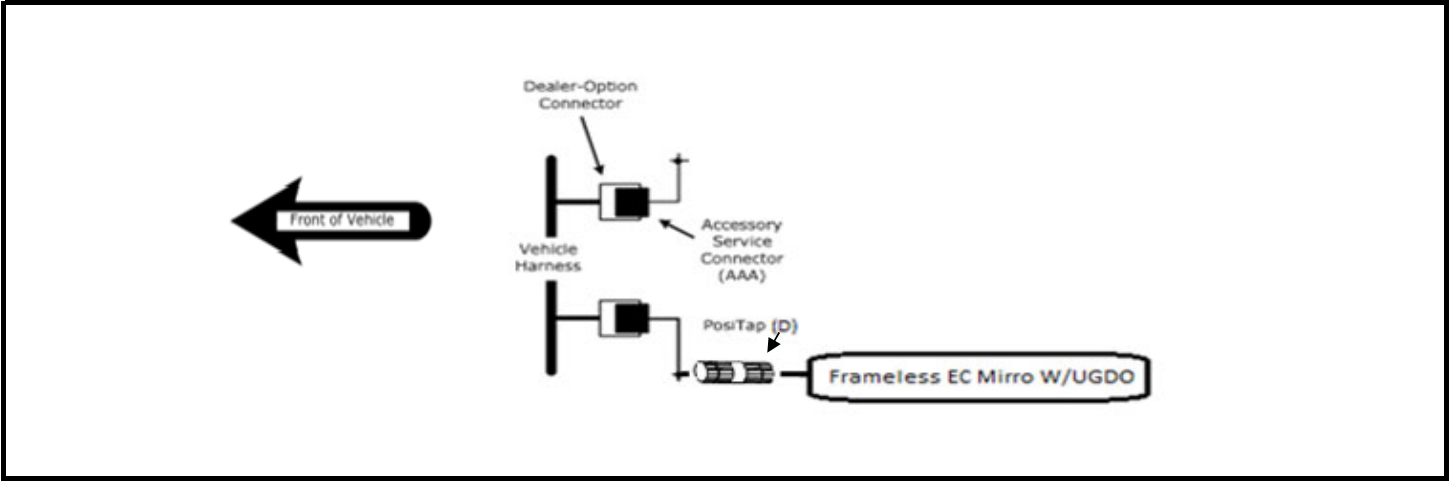


AAA

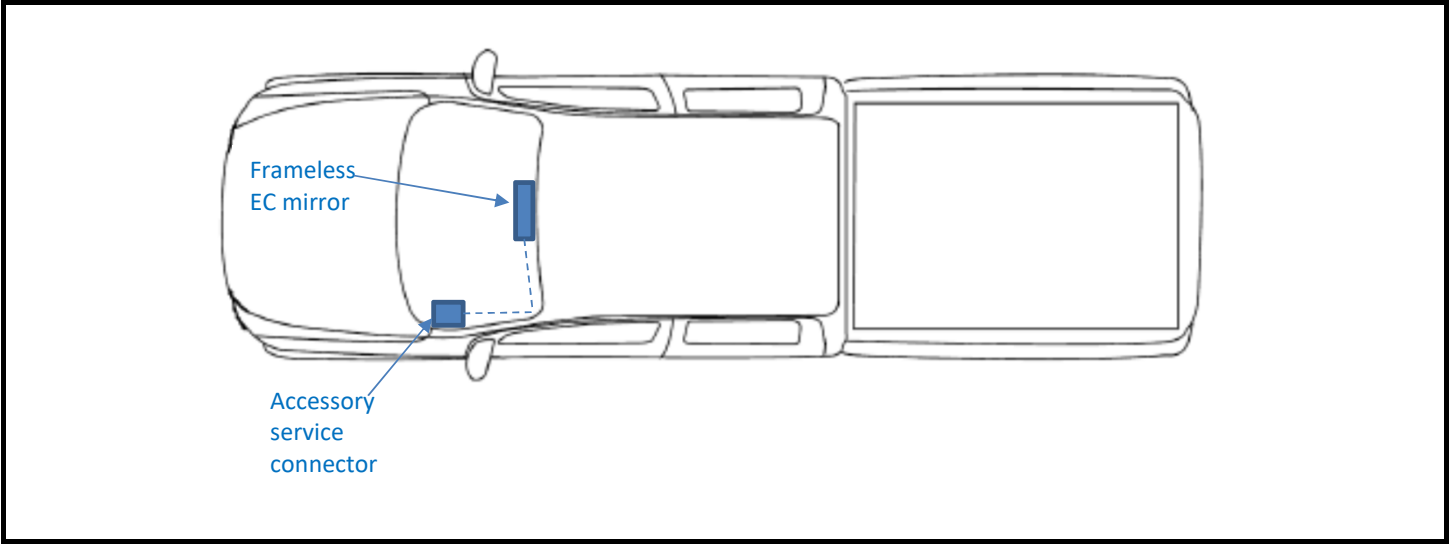
</

SECTION 1 - OVERVIEW

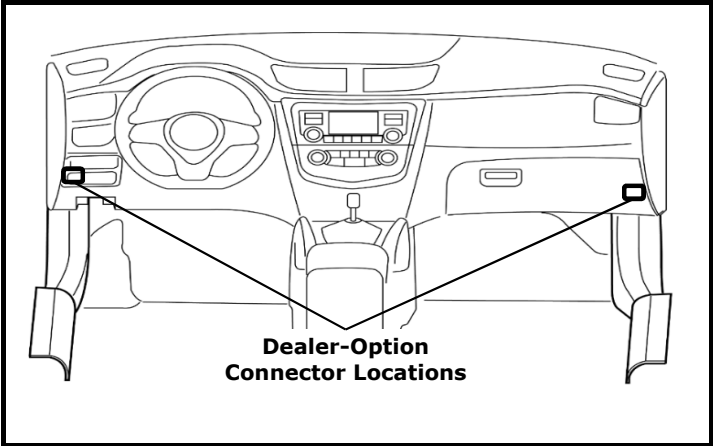
1.4) SYSTEM



1.2) VEHICLE



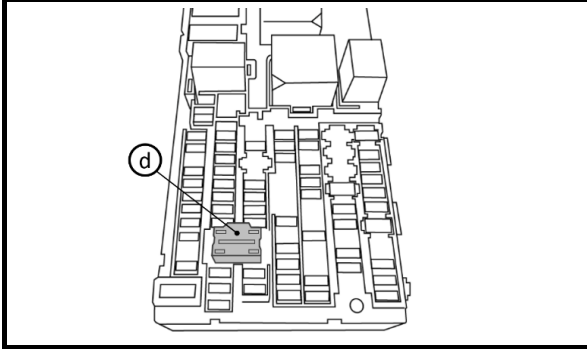
1.3) D-OPT CONNECTOR LOCATION



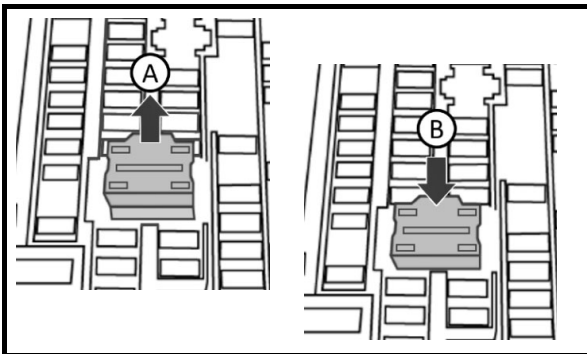


CAUTION

- 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.

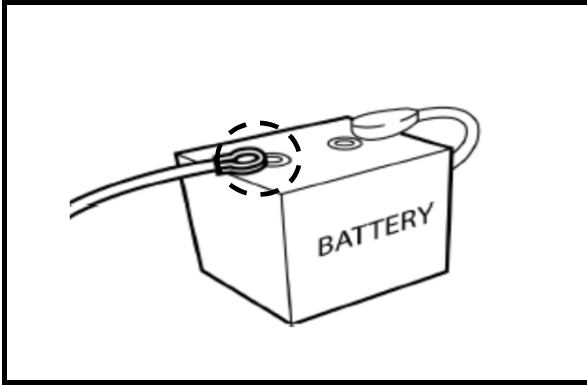
Condition	Switch Position	Note
Vehicle is delivered to the dealer	Transit (OUT)	
Vehicle is being stored at the dealer	Transit (OUT)	
Vehicle is delivered to customer	Customer (IN)	

- 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



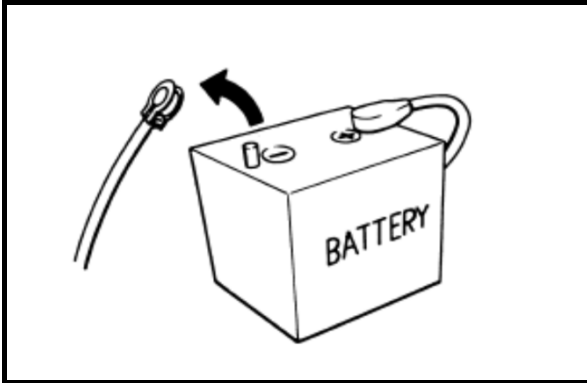
- 2.4) Disconnect battery terminal
- a) Open vehicle hood.
 - b) Locate negative battery terminal.
 - c) Loosen nut with 10mm socket.

Battery Terminal Nut



CAUTION

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

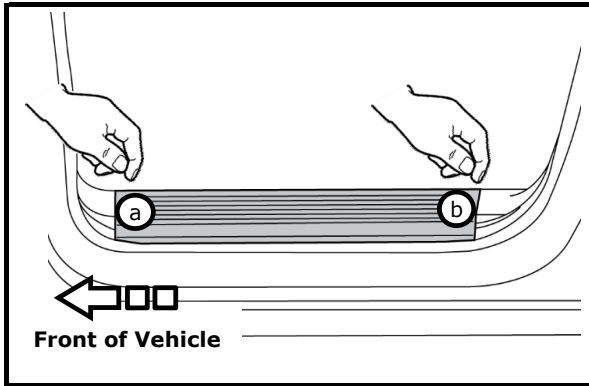


- 2.5) Disconnect battery terminal
- a) Lift negative battery terminal off stud.
 - b) Isolate negative battery terminal.

CAUTION

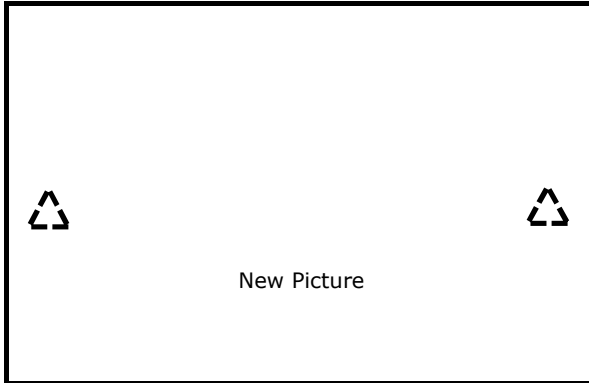
- Allow 3 min after negative terminal disconnect before separating any electrical connectors.

SECTION 4 - TRIM REMOVAL



4.1) Remove LH trim

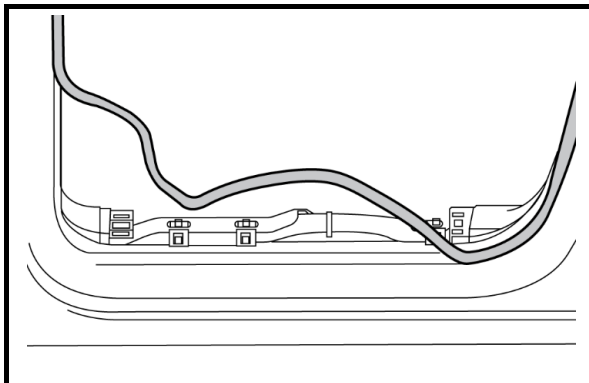
- a) Locate LH inner kick plate.



4.2) Remove LH trim

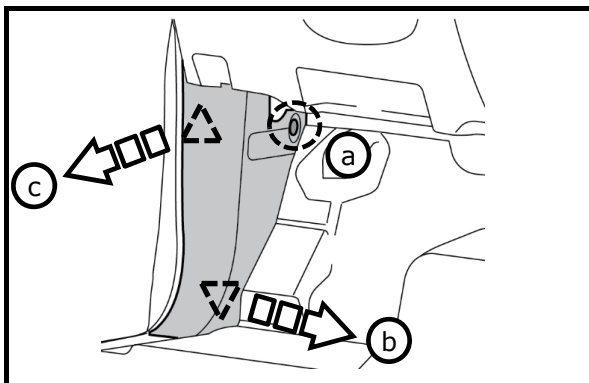
- a) Using trim removal tool at forward end of inner kick plate, pry inner kick plate up to disengage clip.
- b)

Clip



4.3) Remove LH trim

- a) Remove door sill weatherstrip along area as shown.



4.4) Remove LH trim

- a) Remove trim fastener from lower kick trim with flat screwdriver

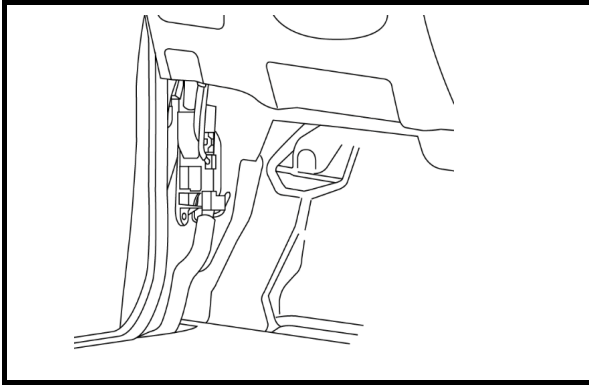
Trim Fastener



Pawl

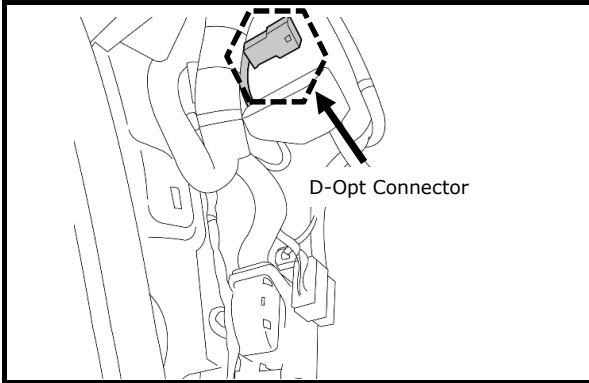


SECTION 4 - TRIM REMOVAL



4.5) Remove LH trim

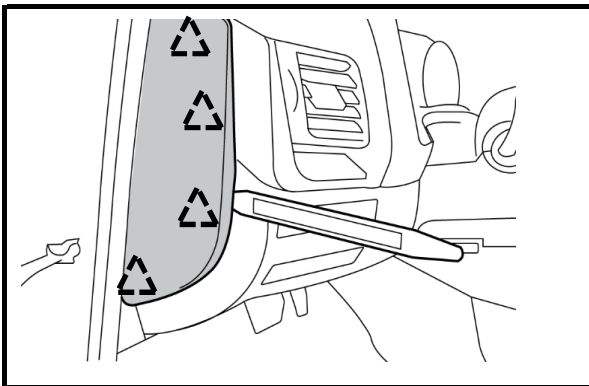
- a) Remove lower kick trim from vehicle.



4.6) Locate LH D-Opt connector

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

D-Opt Connector



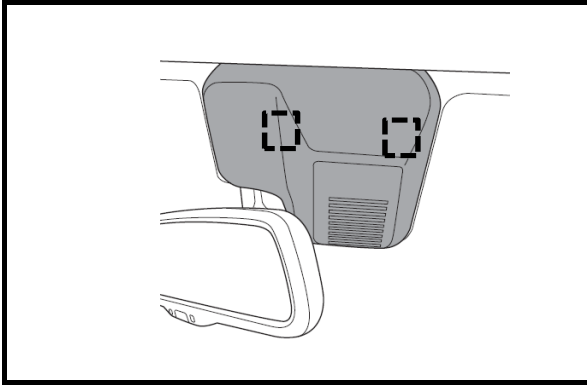
4.6) Remove LH trim

- a) Remove IP end trim using trim removal tool.

Pawl



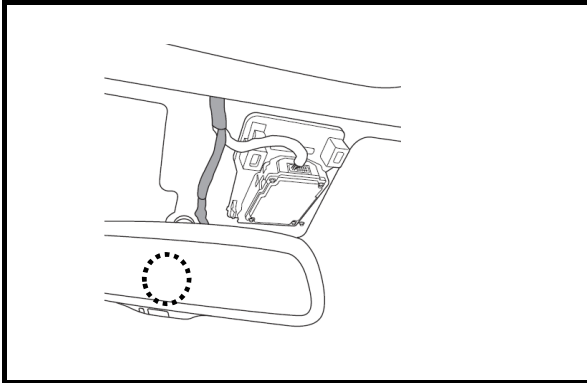
SECTION 4 - TRIM REMOVAL



4.8) Remove FR Lane Camera trim

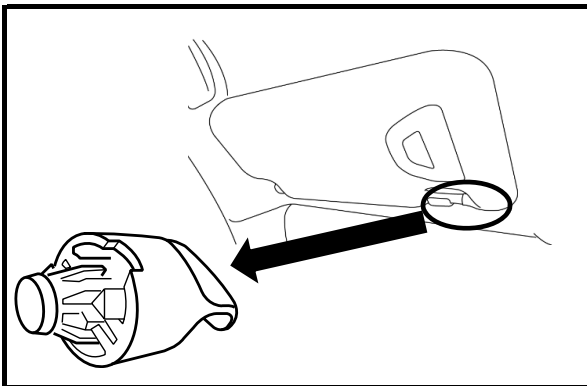
- a) Using panel removal tool remove trim by disengaging 4 clips.

Clips



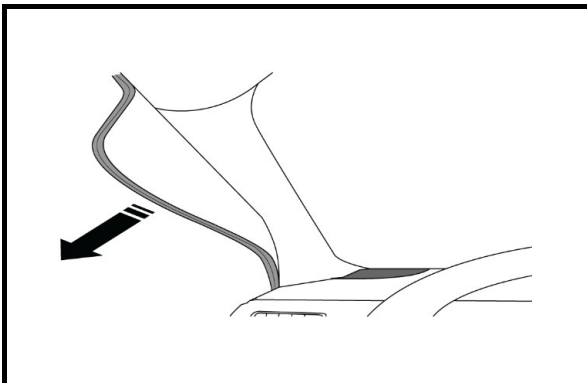
4.9) Remove Factory mirror

- a) Disconnect connector for factory mirror and discard Mirror.
- b) Hide factory side mirror harness in headliner.



4.10) Remove Sun Visor Clip

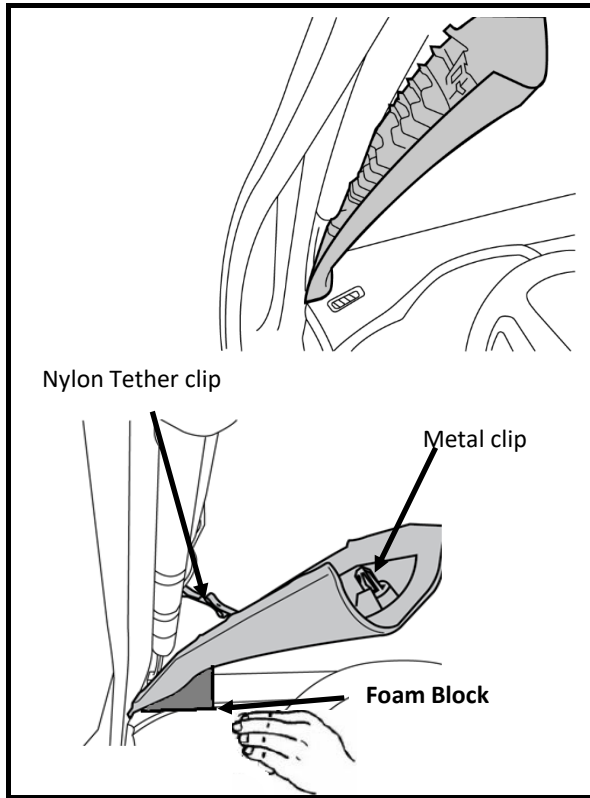
- a) Rotate sun visor clip counterclockwise and remove.



4.11) Remove LH weather strip.

- a) Using a panel removal tool, loosen driver side weather strip and remove from top of the A-pillar to instrument panel.

SECTION 4 - TRIM REMOVAL



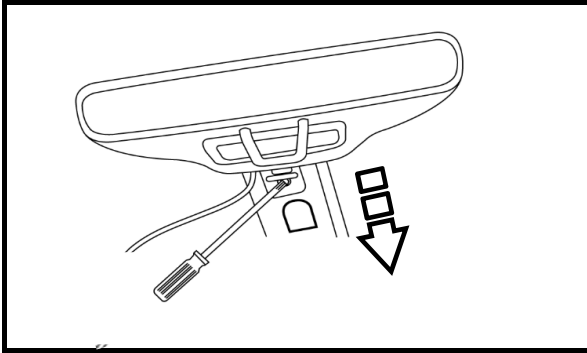
4.12) Remove LH A-pillar Trim

- a) Partially remove LH A-pillar trim by disengaging metal clips only. So, A-pillar stay attached to vehicle body with nylon teather clip.
- b) Place a block of foam between dash and A-pillar (as shown in picture) to protect any damage to teather clip and A-pillar trim.

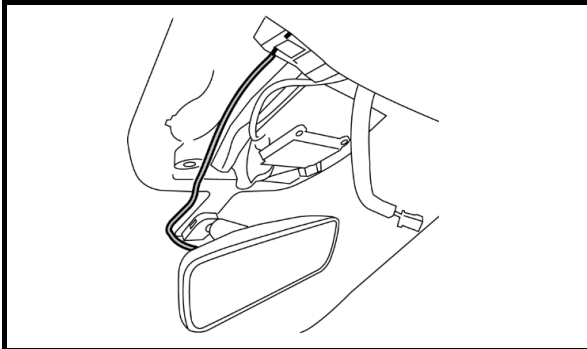
CAUTION

- Exercise caution when partially removing and installing LH front pillar garnish due to side airbag placement.
- Do NOT Pull on LH A-pillar garnish teather clip.

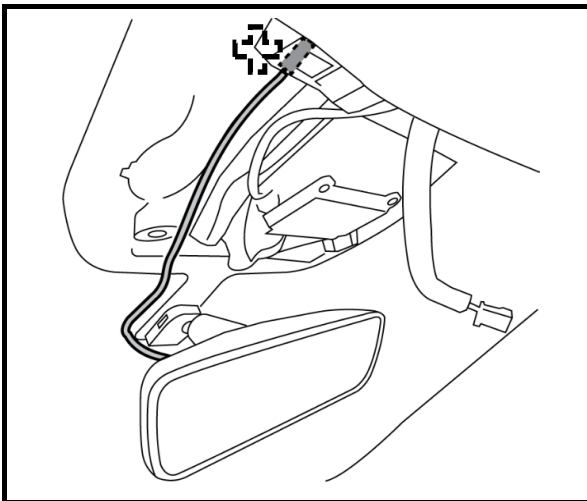
SECTION 5 - INSTALLATION PROCEDURE



- 5.1) Install Frameless EC Mirror Harness
- a) Plug harness(G) connector into back of mirror, pressing firmly until a "click" is heard. Pull GENTLY on harness to confirm harness is seated completely.
 - b) Slide Frameless mirror base over mirror button on windshield.
 - c) Using T-20 Torx head driver tighten screw on mirror mount with force of 1.5-2.0 Nm(1.3ft-lbs)

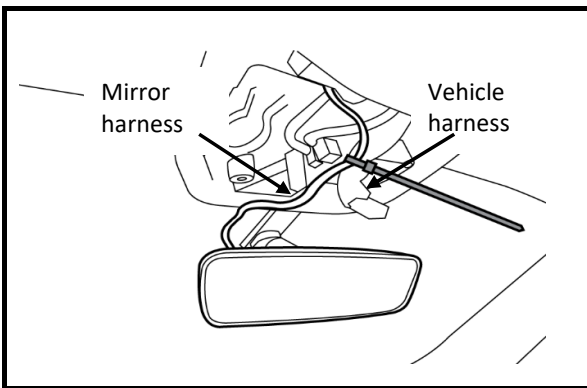


- 5.2) Install Frameless EC Mirror Harness
- a) Route harness by following vehicle harness as shown.



- 5.3) Install Frameless EC Mirror Harness
- a) Wrap 1 piece of foam tape(E) around harness and, using panel removal tool tuck harness between headliner and roof.

Foam Tape (E)

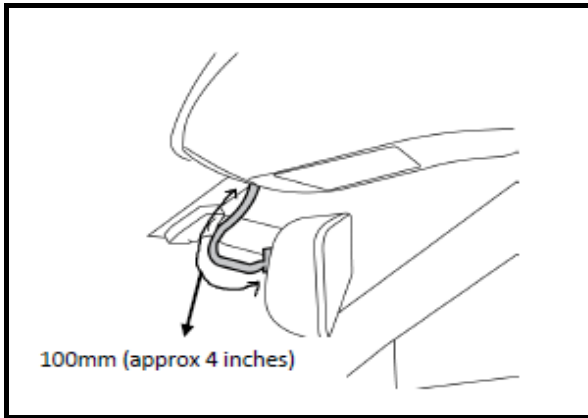


- 5.4) Install Frameless EC Mirror Harness
- a) Secure mirror harness with vehicle harness using 1 cable tie.

Cable Tie (C)



SECTION 5 - INSTALLATION PROCEDURE

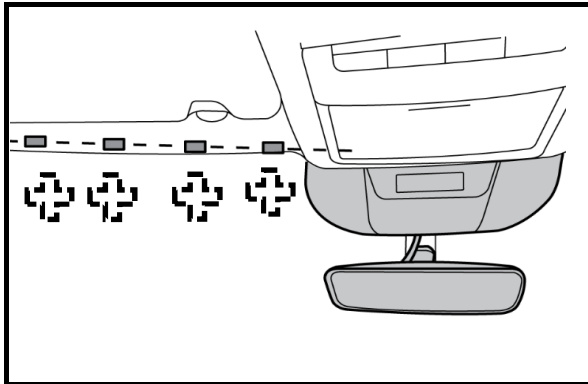


5.5) Re-install FR lane camera trim

- a) Re-install Camera trim, route the mirror harness into groove of camera cover.
- b) Verify that approximately 4" (100 mm) of wire harness between camera cover opening hole and connector on back of mirror. Failure to allow appropriate length will result in limited to no movement for mirror.

CAUTION

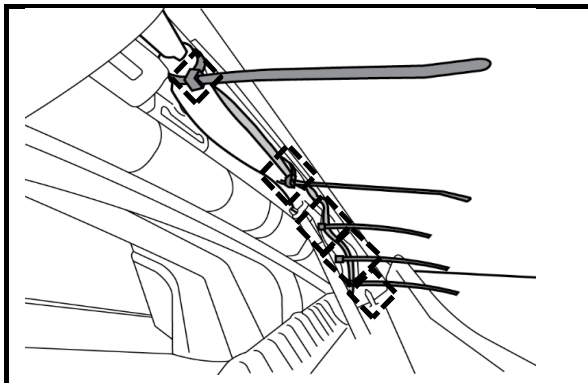
- Avoid pinching mirror harness while Re-installing camera trim.



5.6) Install Frameless EC mirror Harness

- a) Wrap three additional pieces of foam tape(E) around mirror harness, evenly spaced along headliner as shown.
- b) Using a panel removal tool, tuck wire harness between headliner and roof.

Foam Tape (E)



5.7) Install Frameless EC mirror Harness

- a) Route harness down at driver side A-pillar and secure to existing vehicle harness with 5 cable ties.

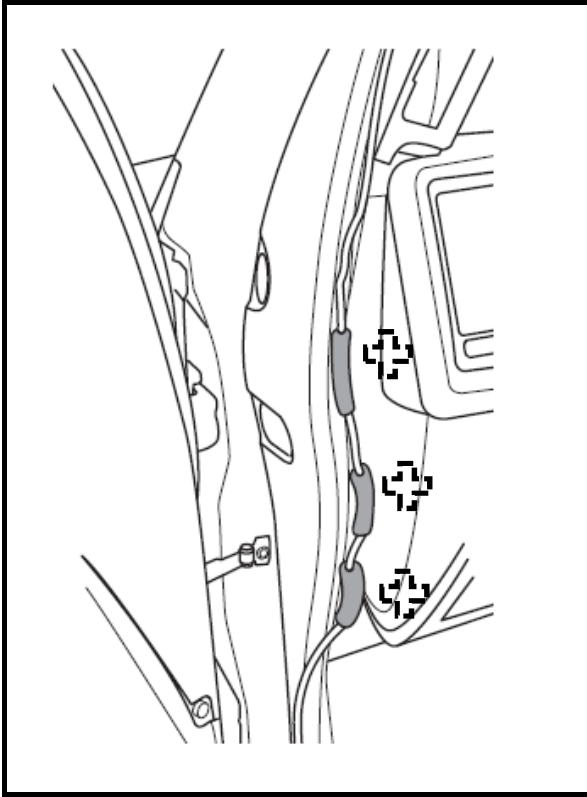
Cable Tie (C)



CAUTION

- Do not use cable tie with airbag and drain tube.

SECTION 5 - INSTALLATION PROCEDURE



5.7) Install Frameless EC mirror Harness

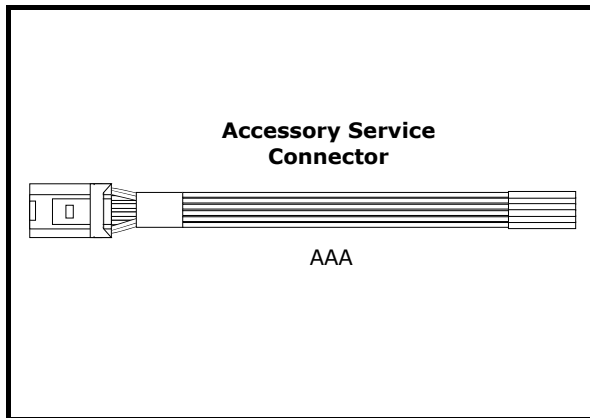
- a) Wrap 3 piece of foam tape around harness and feed harness through top of dash near A-pillar.
- b) Feed harness from upper dash to lower driver as shown

Foam Tape (E)



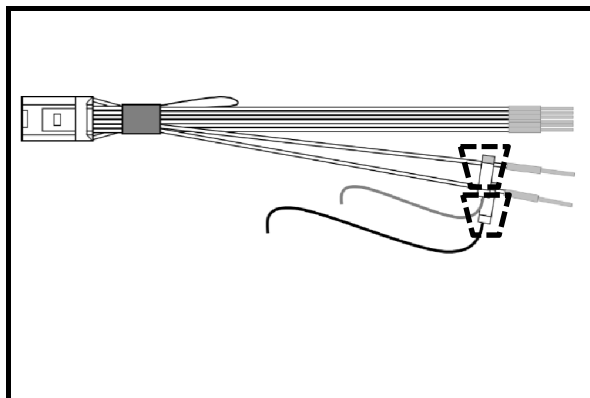
! CAUTION

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.



6.1) Connect ASC (AAA) to Frameless EC Mirror

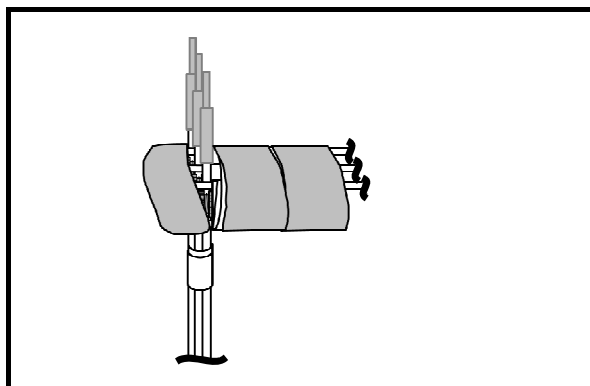
- a) For detailed directions, see Appendix A - Posi-Tap Procedure.
- b) Additional circuit information is in Appendix B - Mechanization Drawing.



6.2) Connect ASC (AAA) to Frameless EC Mirror

- a) Using a Posi-Tap (D), connect the BLACK Mirror lead wire to the "GND" (BLACK wire) of the ASC (AAA) as shown.
- b) Using a Posi-Tap (D), connect the RED Mirror lead wire to the "IGN" (WHITE wire) of the ASC (AAA) as shown.

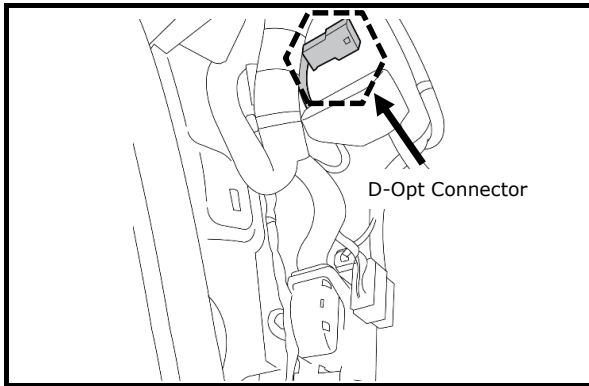
Posi Tap (D)



6.3) Connect ASC (AAA) to Frameless EC Mirror

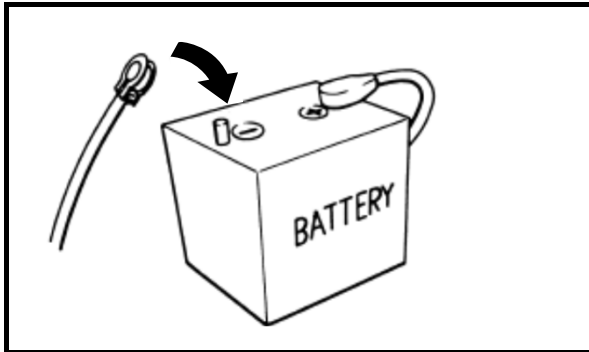
- a) Once the ASC is prepared as described in Appendix A, the Mirror harness with ASC attached should look like this.

SECTION 6 - ASC CONNECTION & FUNCTION CHECK

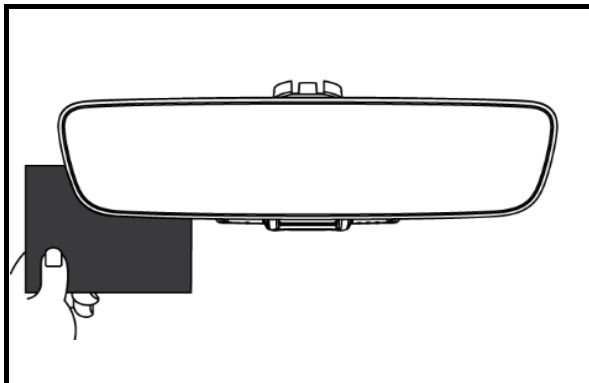


- 6.4) Connect ASC (AAA) to Frameless EC Mirror
- If D-Opt connector is located at location 1 as shown , Plug LH ASC into LH D-Opt connector.
 - Otherwise skip to step 6.5

D-Opt Connector



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



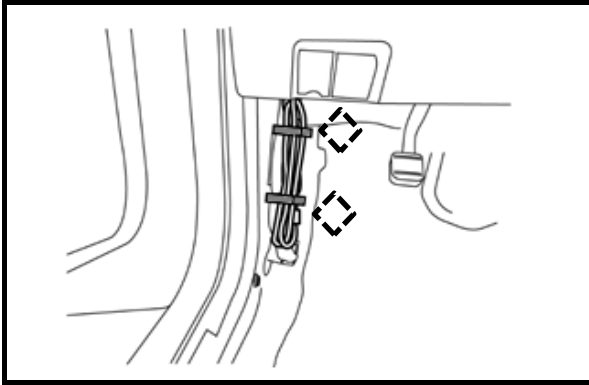
- 6.6) Electrical function check
- Cover the forward-looking photocell (located to driver side on back of mirror) with a dark cloth or towel. After a few seconds, the mirror should begin to darken. Timing will vary with ambient light levels and a flashlight may be shined on the rearward photocell if needed, to accelerate effect.
 - Remove the cover from the forward-looking photocell and mirror will begin to clear.

- 6.7) Electrical function check
- If NG, Check harness routing, connections and Mirror to identify rootcause.

CAUTION

When diagnosing electrical system problems, first disconnect the accessory connectors and note effect on vehicle system. Continue the investigation with the accessory connector disconnected. Reconnect when the investigation is complete.

SECTION 7 - FINAL



7.1) Secure wire harness

- a) Secure mirror harness to vehicle harness with 2 Cable Ties as shown.

Cable Tie (C)



7.2) Re-install trim

- a) Re-Install interior trim that was removed in Section 4- Trim Removal.



7.3) Install Hang tag

- a) Hang tag (R) on the mirror mount.

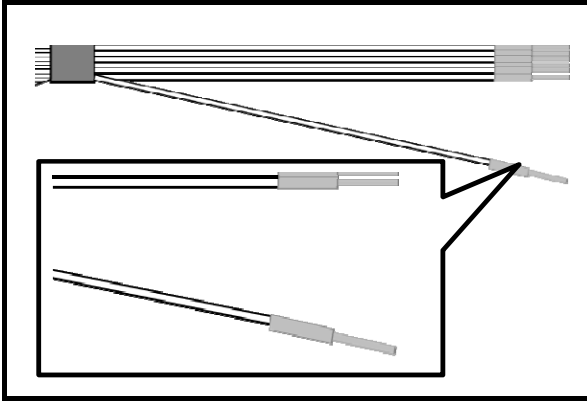


Take care not to scratch or damage any component during the removal or re-installation process. Trim pieces found to have witness marks or broken clips should be replaced with new parts.

7.4) Complete checklist:

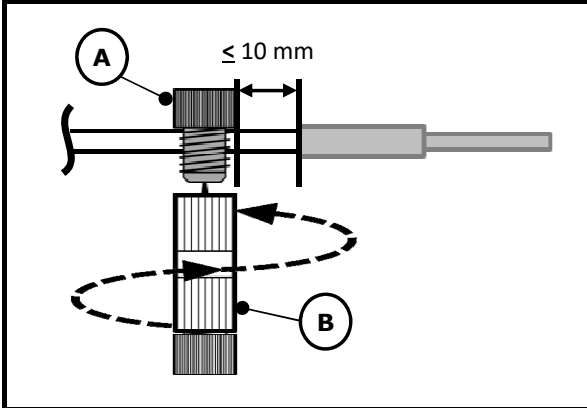
- ☐ Tighten Negative battery terminal nut to 8 N-m (+/-1) [71 in-lbs (+/-9)] .
- ☐ Verify QRG (quick reference guide) is placed in glove box.
- ☐ Verify Hang Tag is installed on the mirror.
- ☐ Verify re-installed trim parts for proper fit (no gap, waviness, etc.), particularly the door sill weather
- ☐ 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.
- ☐ 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 2.1 .
- ☐ Re-program radio presets and other vehicle settings to the recorded settings if necessary.
- ☐ 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.
- ☐ Verify A-pillar trim, clip and nylon tether is not damaged.

APPENDIX A - POSI-TAP PROCEDURE



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

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



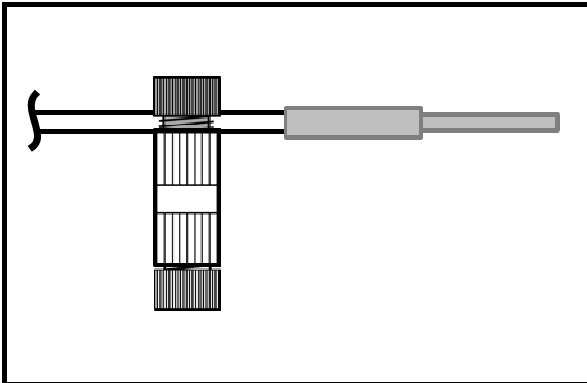
A.2) Installing Posi-Tap™ on ASC (AAA)

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



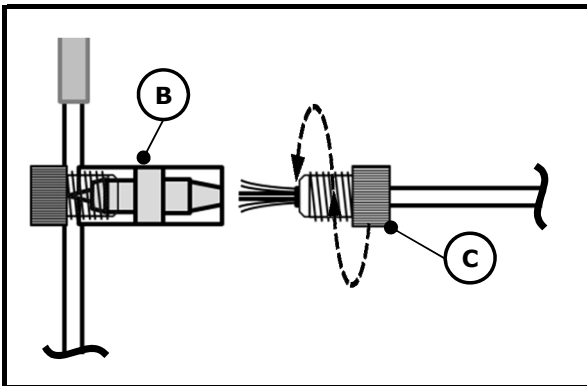
CAUTION

Do not overtighten Posi-Tap, it may damage wire



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

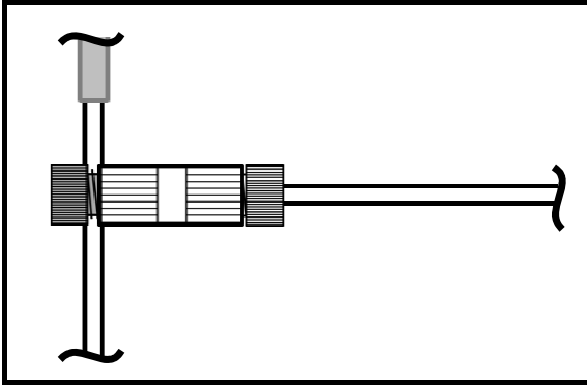
- a) Inspect Posi-Tap™ to ensure correct installation.
- b) Wire jacket should be crushed enough to maintain pressure.
- c) Confirm tap cap gap is straight and evenly spaced around perimeter.



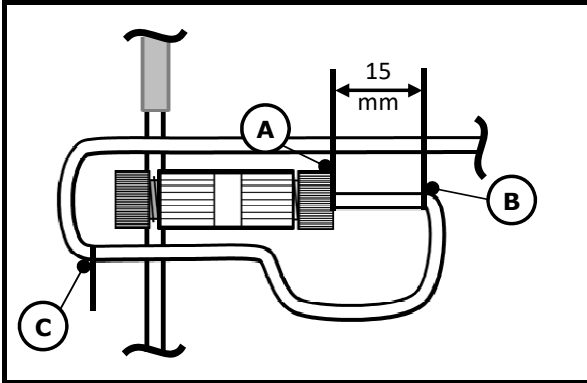
A.4) Installing Accessory wire into Posi-Tap™

- 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)
- 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.

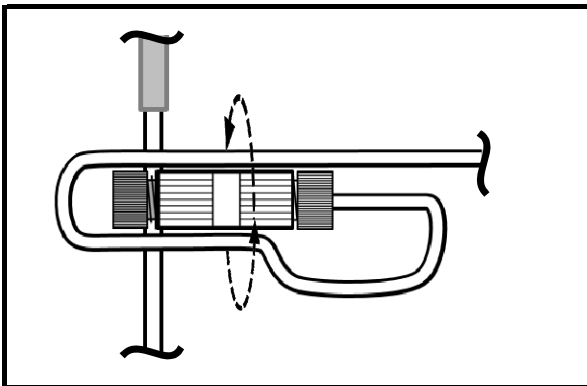
APPENDIX A - POSI-TAP PROCEDURE



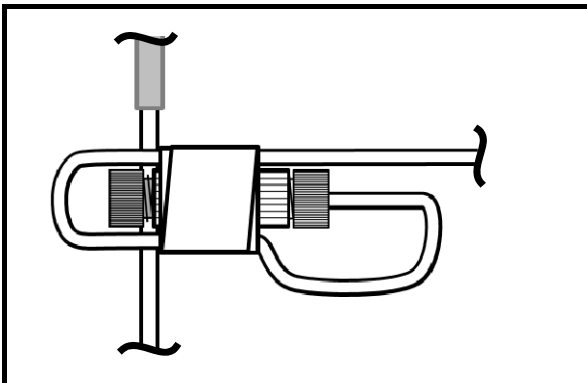
- A.5) Installing accessory wire into Posi-Tap™
- a) Confirm tap bottom gap is straight and evenly spaced around perimeter
 - b) Gently pull on wire to confirm secure connection.



- 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).



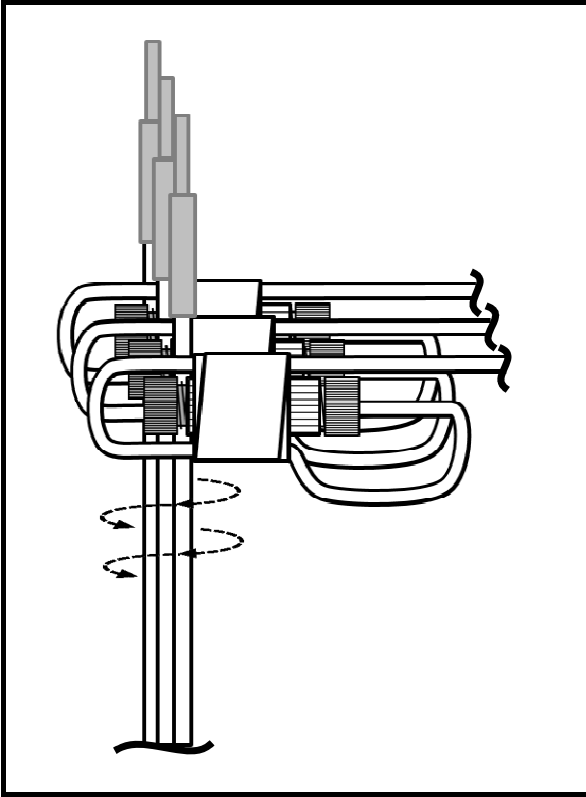
- A.7) Accessory wire strain relief
- a) Secure accessory wire strain relief to tap body with electrical tape (≥ 2 revolutions).



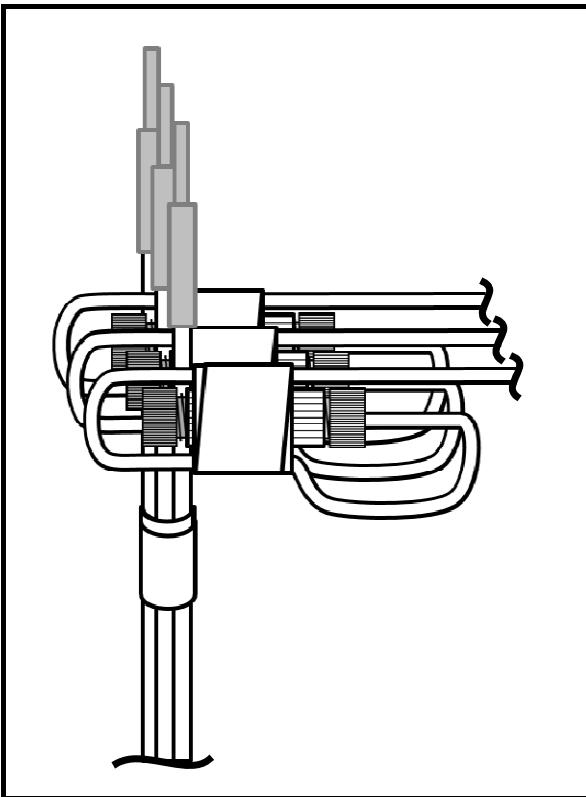
- A.8) Accessory wire strain relief
- a) Once accessory wire strain relief is taped to tap body, it should look as shown.

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

APPENDIX A - POSI-TAP PROCEDURE

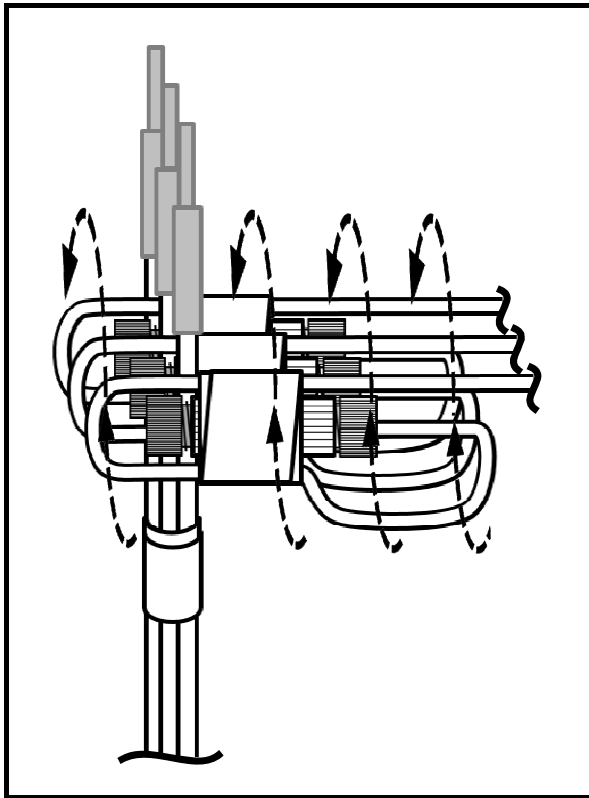


- A.10) Securing multiple Posi-Taps™ together
- a) Stack Posi-Taps™ in slightly staggered fashion as shown.
 - b) Secure tapped circuits together with electrical tape (≥ 2 revolutions).

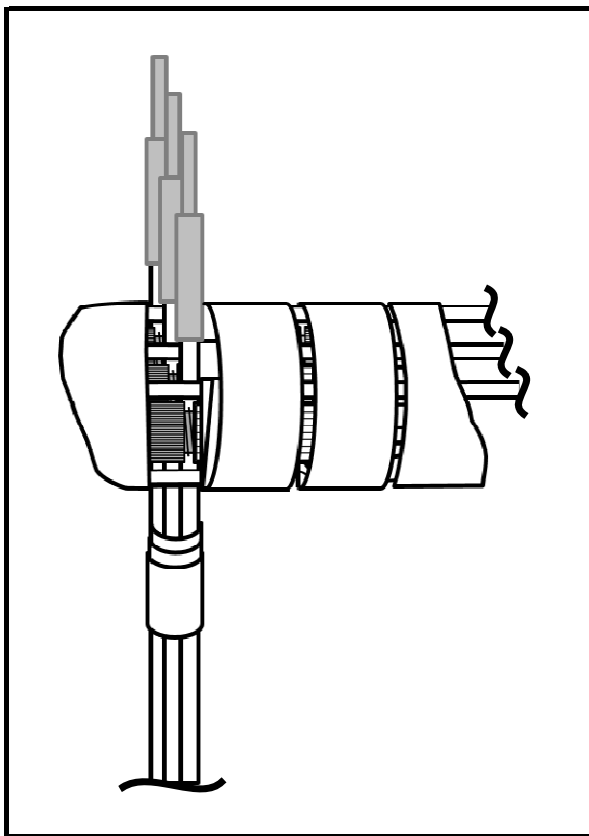


- A.11) Securing multiple Posi-Taps™ together
- a) Once tapped circuits are secured together with electrical tape they should look as shown.

APPENDIX A - POSI-TAP PROCEDURE

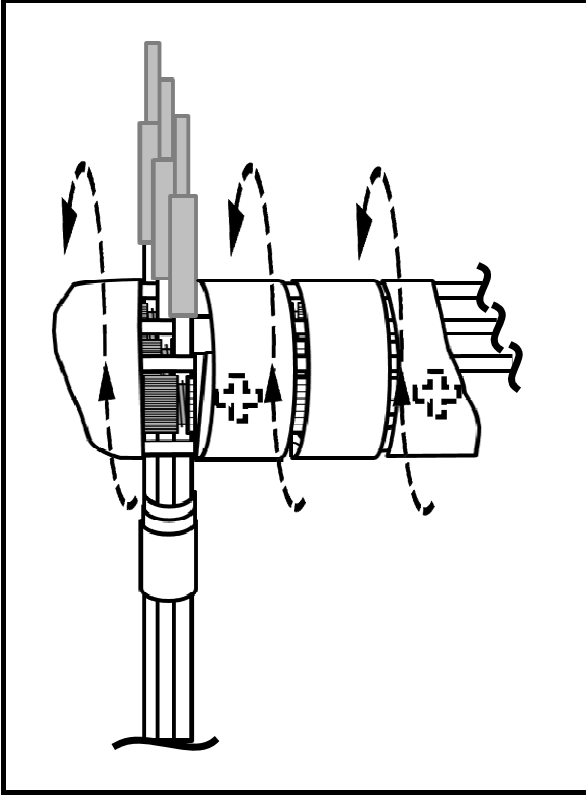


- A.12) Securing multiple Posi-Taps™ together
- a) Secure Posi-Taps™ together with electrical tape (≥ 4 revolutions).



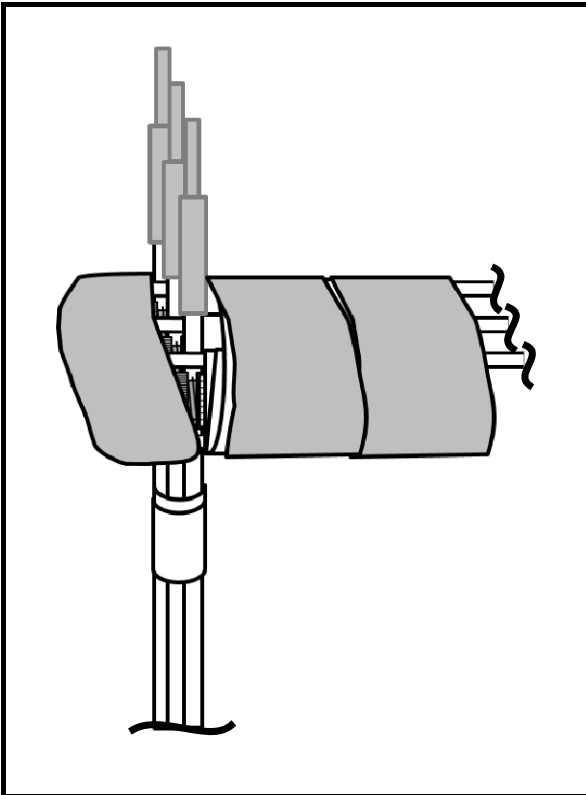
- A.13) Securing multiple Posi-Taps™ together
- a) Once Posi-Taps™ are secured together with electrical tape they should look as shown.

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 (E) to wrap pre-taped Posi-Taps™.

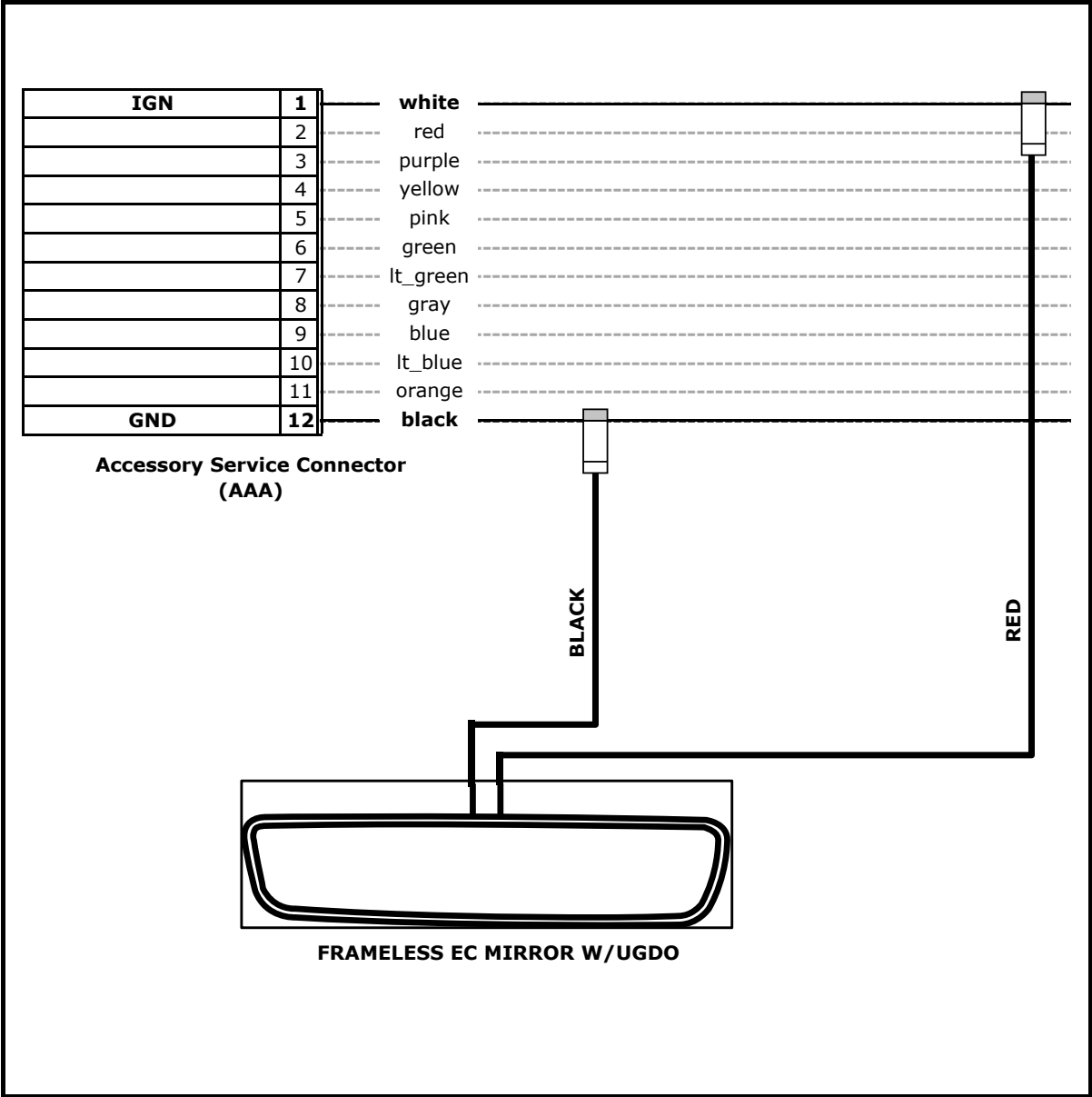
Foam Tape (E)



- A.15) Securing multiple Posi-Taps™ together
- a) Once wrapped with Foam Tape (E), taped Posi-Tap™ bundle should look as shown.

APPENDIX B - MECHANIZATION DRAWING

B.1) Figure below applies to the EC Mirror connected to the LH ASC



CONNECTOR PN#		T99F6 4RA0A		LEGEND	
CONNECTOR NAME		ACCESSORY SERVICE CONNECTOR		<div>POSI-TAP</div> <div><div><div></div><div></div><div></div></div><div>GRAY - CIRCUIT TAP (PIERCE) SIDE</div><div>RED - ACCESSORY (INSERT) SIDE</div></div>	
CONNECTOR COLOR		WHITE			
UNIT	<div><div><div></div><div>H.S.</div></div></div>		<div><div><div></div><div></div><div></div></div><div>GRAY - CIRCUIT TAP (PIERCE) SIDE</div><div>RED - ACCESSORY (INSERT) SIDE</div></div>		Note: Pin location is referenced looking into harness side of connector with lock tab oriented as shown.
	<div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div></div><div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div></div></div>				

Frameless Mirror with (ARQ™) Universal Remote Control Reference Guide

Read instructions thoroughly BEFORE beginning. If using the remote control with residential door openers, the remote control must be used only with door openers manufactured after 1993 that utilize photoelectric sensors. The photoelectric sensors are always located on or near the bottom of the door track.

ONLINE INSTRUCTIONS AND HOW-TO-VIDEOS

Go to <http://arq.chamberlain.com> for additional instructions and How-to-Videos.

COMPATIBILITY

Compatible with most garage door openers manufactured by Chamberlain®, LiftMaster®, Sears Craftsman®, Garage Master®, Genie®, Linear®, Stanley®, Overhead Door®, Wayne Dalton®, Moore-O-Matic®, Do-It®, Master Mechanic®, Raynor®, Sommer®, True Value®, and Xtreme Garage™. For a complete list of compatible products, go to <http://arq.chamberlain.com>

WARNING

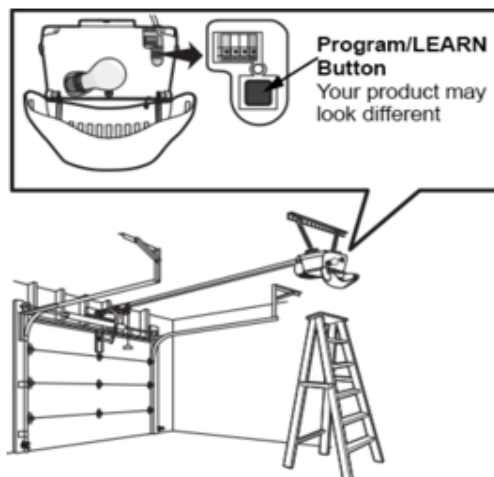
• If using the remote control with residential door openers, the remote control must be used only with door openers manufactured after 1993 that utilize photoelectric sensors. The photoelectric sensors are always located on or near the bottom of the door track.

To prevent possible **SERIOUS INJURY** or **DEATH** from a moving door:

- ALWAYS keep remote controls out of reach of children. NEVER permit children to operate, or play with remote control transmitters.
- Activate door ONLY when it can be seen clearly, is properly adjusted and there are no obstructions to door travel.
- ALWAYS keep door in sight until completely closed. NEVER permit anyone to cross path of moving door.
- Your vehicle's engine should be turned OFF while programming the ARQ universal remote control. Do not breathe exhaust gases; they contain colorless carbon monoxide. Carbon monoxide is dangerous. It can cause unconsciousness or death.

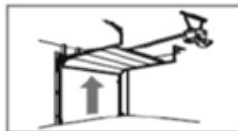
Before You Begin

- 1) Locate the Program/LEARN button on your garage door opener (typically located on the back or side panel).
- 2) IMPORTANT: The remote control will activate your door during programming. Ensure door area is clear of ALL obstructions.



Programming

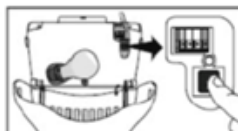
- 1** Open garage door



- 2** (In car): Press and hold the outer 2 buttons on the remote control until the green LED stays solid (3-5 seconds).



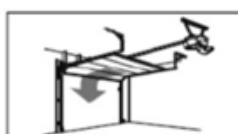
- 3** (In garage): Press and release the Program/LEARN button on the garage door opener (immediately proceed to step 4).



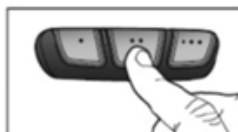
- 4** (In car): Press and release the button you would like to program two times (some Genie® models require three times).



- 5** Wait until the garage door begins to close (up to 60 seconds).

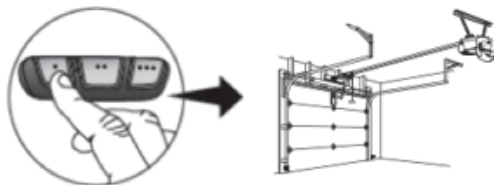


- 6** Immediately press and release any button on the remote control (within 3 seconds of the door moving).



Test

Test the remote control by pressing the button you programmed in step 4. If the door does not move, repeat the programming steps or go to <http://arq.chamberlain.com> for additional instructions.



PRODUCTS WITH SWITCHES

The above instructions are for general programming. If your product has switches instead of a Program/LEARN button, an App is required for programming. Download the ARQ™ Universal Remote Control app from the App Store® or Google Play™ store and follow the instructions in the app.



Additional Programming

Program up to three products, such as a garage door opener, lighting, or gate operator with your ARQ™ Universal Remote Control. Each button must be programmed separately.

IMPORTANT: The remote control will activate your door during programming. Ensure door area is clear of ALL obstructions.

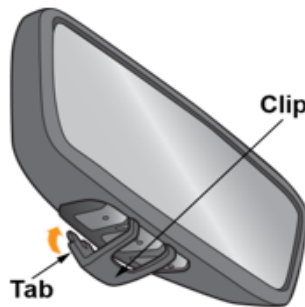
Removal of the Universal Remote Control (ARQ™)

Press the tab on the back of the remote control clip and pull down. Remove the remote control from mirror. DO NOT remove while vehicle is moving.



Replacement of the Universal Remote Control (ARQ™)

Insert the remote control in the mirror. Secure it by rotating the clip upwards and pressing the tab into place. DO NOT replace while vehicle is moving.



Need Help?

Go to <http://arq.chamberlain.com> or call 1-877-ARQ-SYNC (1-877-277-7962)

WARNING

To prevent possible **SERIOUS INJURY** or **DEATH**:

- DO NOT use a visibly damaged remote control or battery.
 - DO NOT attempt to repair the remote control or battery.
 - If battery is swallowed, immediately notify doctor.
- To reduce risk of fire, explosion or chemical burn:
- DO NOT recharge the battery, disassemble, heat above 212°F (100°C) or incinerate.

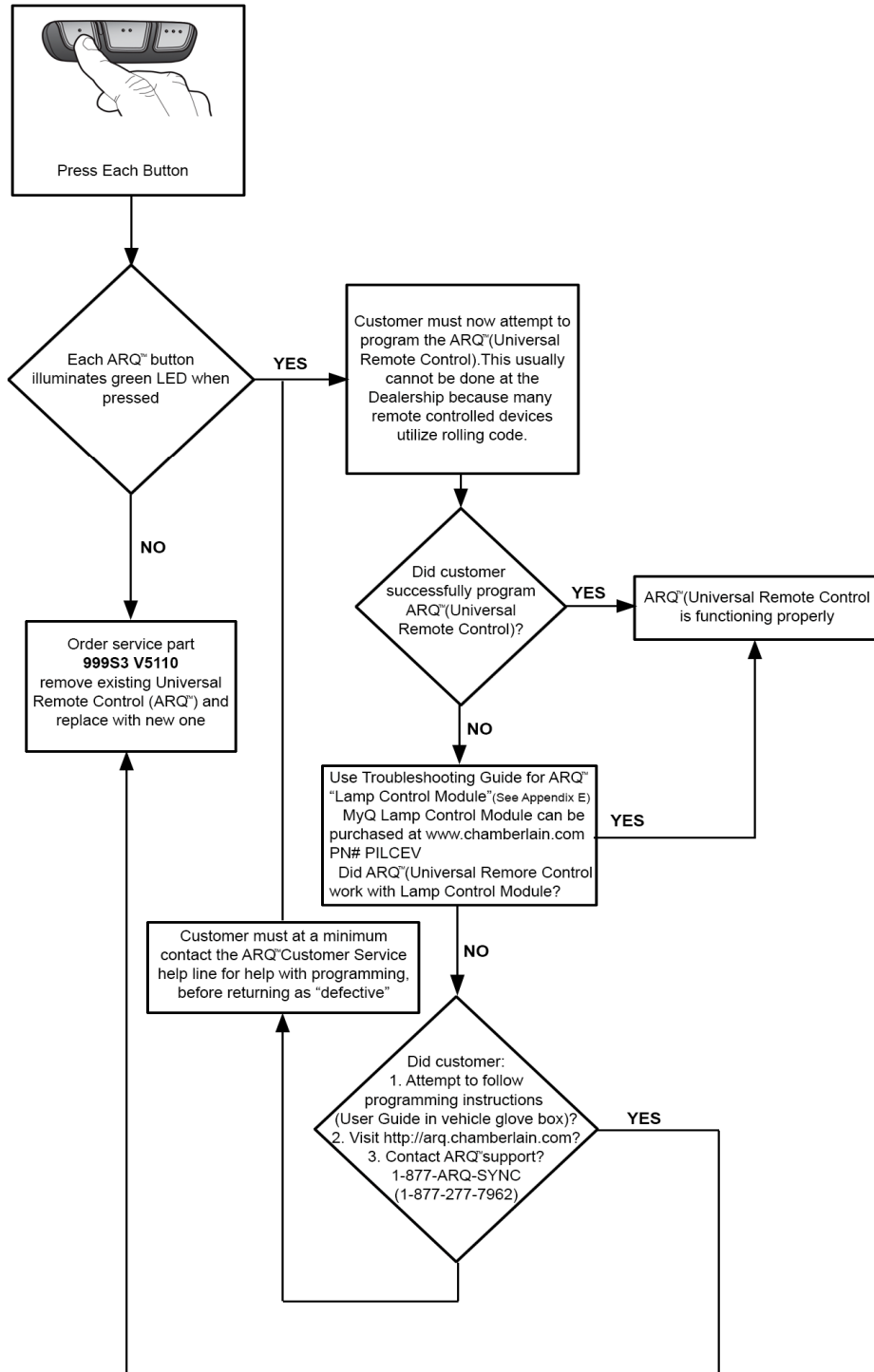
The remote control contains a Lithium battery that is not serviceable or replaceable. Dispose of remote control properly.

NOTICE: To comply with FCC and/or Industry Canada (IC) rules, adjustment or modifications of this transceiver are prohibited. THERE ARE NO USER SERVICEABLE PARTS.

This device complies with Part 15 of the FCC rules and IC RSS-210. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device must be installed in a way where a minimum 8" (20 cm) distance is maintained between users/bystanders and device

Universal Remote Control (ARQ™) Troubleshooting Guide Diagnostic Flow Chart PN# 999S3 V5110

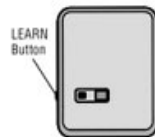


Troubleshooting Guide for ARQ™ using “Lamp Control Module”

Before you begin press any one of the three buttons and verify green LED flashes

The following instructions require MyQ Lamp Control to verify the ARQ™ Universal Remote Control. The MyQ Light Control may be purchased at www.chamberlain.com PN# PILCEV

Remote Lamp Control



General Instructions

Press and release the Program/LEARN button on the MyQ Lamp Control, within 30 seconds press and hold any one button on the remote control you would like to use. If programming is not successful, proceed to the steps below.

- 1 Make sure the light connected to the lamp control is ON.



- 2 (In vehicle): Press and hold the 2 outer buttons on your ARQ™ remote control until the green LED stays solid (3-5 seconds).



- 3 Press and release the LEARN button on the lamp control.

- 4 (In vehicle): Press and release the button **twice** that you would like to program.



- 5 Wait for the light to turn off, then **immediately** press and release any button on your remote control (within 3 seconds of the light turning off).



Test your ARQ™ remote control by pressing the button you programmed in step 4. If the light does not activate, repeat the programming steps.

Customer must contact ARQ™ Customer Service help line for programming issues, before returning to dealer as “Defective Part”

Need Help?

Go to <http://arq.chamberlain.com> or call 1-877-ARQ-SYNC (1-877-277-7962)