![Nissan logo] **GENUINE PARTS**

# INSTALLATION INSTRUCTIONS

| | |
|---|---|
| **DESCRIPTION:** | Welcome Light Kit |
| **APPLICATION:** | Altima Sedan |
| **PART NUMBER:** | T99F4 5CH1B Welcome Lighting Kit. |
| | 999F4 U6010II - Installation Instructions (WEB) |
| | (2) 999Q9 AY001 / T99F6 4RA0A - Accessory Service Connector |

**KIT CONTENTS:**

| Item | QTY | Description | Service Part Number |
|---|---|---|---|
| A | 1 | Control module | |
| B | 1 | LED Assembly - RH | |
| C | 1 | LED Assembly -LH | NA Part of T99F4 5CH1B |
| D | 1 | Hardware Kit (see BOM for details) | |
| E | 1 | Parts List / Replacement Template | |
| | | **ITEMS NOT IN KIT THAT MAY BE REQUIRED** | |
| | 2 | Accessory Service Connector | 999Q9 AY001/T99F6 4RA0A |
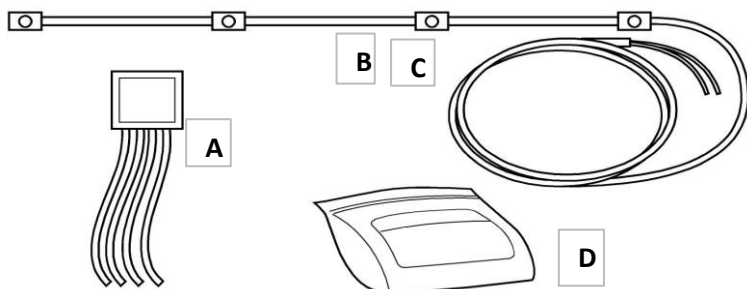
**NOTE: ACCESSORY HARNESS MAY BE REQUIRED. NOT INCLUDED IN KIT. REFERENCE PART NUMBER 999Q9 AY001 / T99F6 4RA0A.**
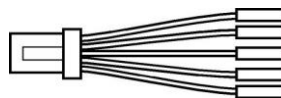
**TOOLS REQUIRED**

- Trim stick
- 10mm sockets
- #2 Philips screwdriver
- Protective cloth
- Deburring Tool
- Rust Preventative
- Scissors, tape measure and metric scale
- 5 mm, 10 mm, 13 mm, 16 mm drill bits, drill, drill stops.
- Electrical tape, masking tape.
- Protective gloves
- Needle nose pliers

**PRE-INSTALLATION CAUTION/NOTES**

- Dealer installation recommended. Instructions may refer to Service Manual
- Installation may require special tools
- This part is to be installed within a surface temperature range of 70-100ºF

## ⚠ CAUTION

- **This accessory must only be installed as specified in these instructions.**
- **Ensure at all times that parts are securely fitted and will not compromise the safe function of vehicle systems.**

# INSTALLATION INSTRUCTIONS - Welcome lighting Kit

## INSTALLATION OVERVIEW
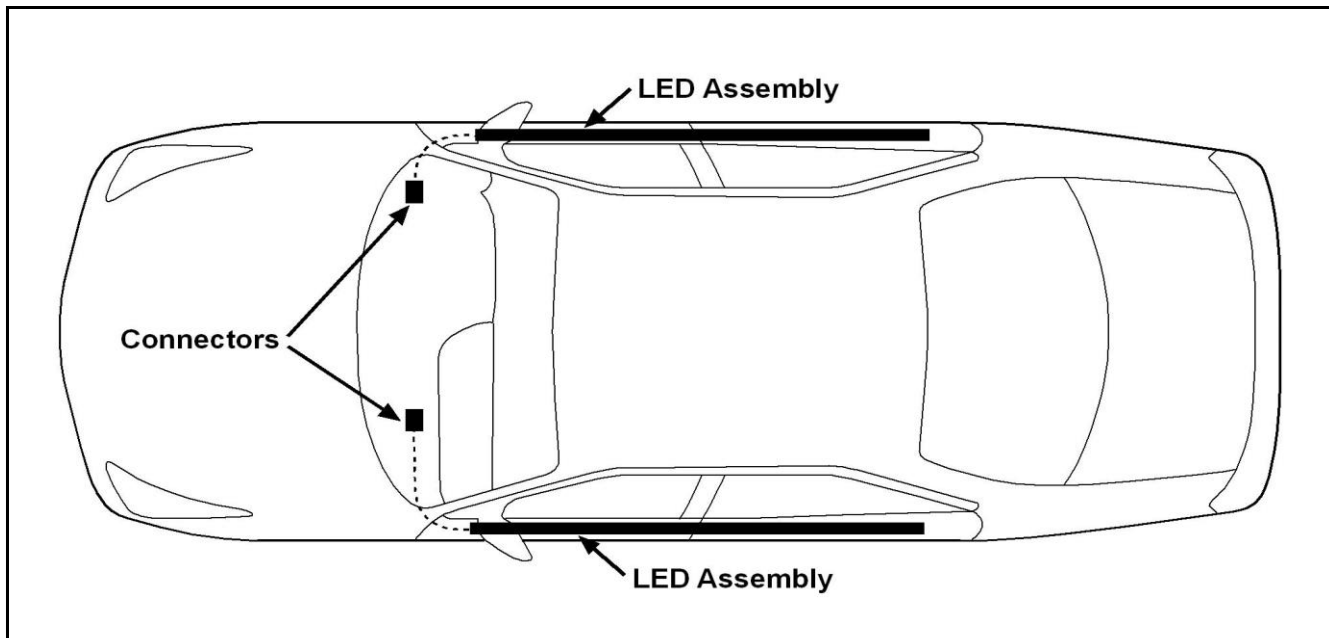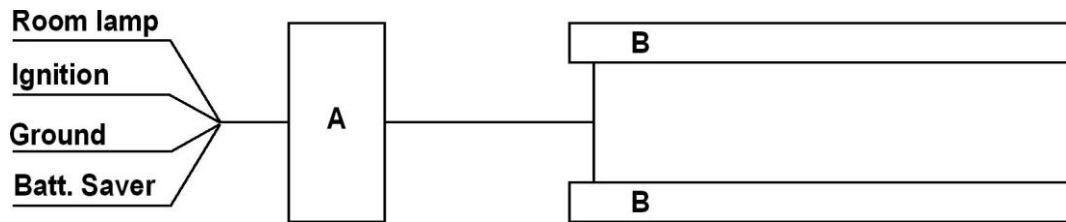




## CRITICAL STEPS

The following steps are critical and must be performed EXACTLY as specified to ensure proper installation:

 - Location of the lights must be followed exactly as described in this instruction.
 - Posi-Tap™ instructions must be specifically followed as described.
 - Be sure to apply masking tape as needed in order to protect any areas that may become scratched or damaged by tools.
 - Be sure to apply foam tape to any wiring components that can be damaged over time by sharp edges.
 - Test the functionality of the kit before final clean up and reinstallation of interior panels.

**Vehicle Preparation:**

## ⚠️CAUTION

● **Always confirm the ignition is in the "OFF" position before changing the switch condition.**

1) Apply parking brake
2) Confirm vehicle is not in the default shipping state or "Inventory position" as shown below. Failure to confirm vehicle has been removed from this state will result in loss of normal vehicle operation.
3) Locate Extended Storage Switch in cabin fuse block. Confirm it is in the "Customer" position. See below for reference.

a) To remove transit mode (Fuse Block):
    1. Remove fuse cover lid.
    2. Push down shorting pin.
    3. Ign On 2 times without starting the vehicle.

b) To remove transit mode (BCM):
    1. Confirm ignition switch is in "OFF" position.
    2. Simultaneously push the signal and wiper switch fully down for two (2) seconds.
    **NOTE:** While in BCM Transit Mode, turn signal indicators will remain illuminated for one minute.
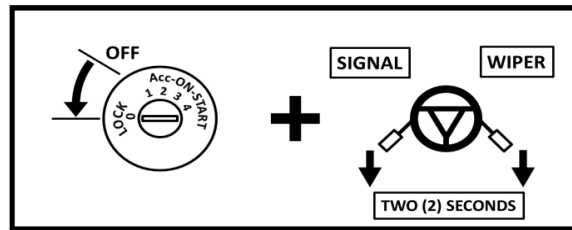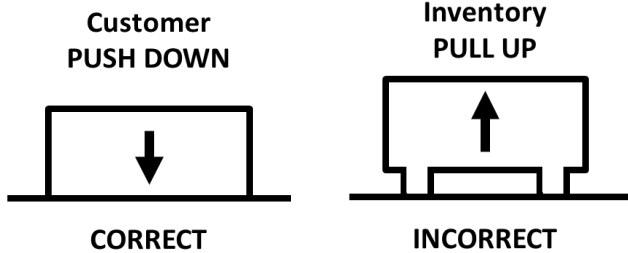


c) To return to transit mode for storage:
    1. Ign Off.
    2. Remove fuse cover lid.
    3. Pull up shorting pin.
    4. Assemble fuse cover lid.
    5. Ign On 2 times without turn the vehicle on.
    6. Confirm transit mode condition on meter

**Customer PUSH DOWN** — **CORRECT** — CUSTOMER - DOWN

**Inventory PULL UP** — **INCORRECT** — INVENTORY - UP

**NOTE:** Typical vehicle condition shown above. Switch is easily identifiable by the permanent, push-pull fuse holder. Actual position on the fuse block may vary, vehicle to vehicle.

| Condition | Switch Position | Note |
|---|---|---|
| Vehicle is delivered to the dealer | Inventory Condition | |
| Technician performs PDI | Customer Delivery | Return to Inventory position after PDI. |
| Customer test drives the vehicle | Customer Delivery | Return to Inventory position after test drive. |
| Vehicle is being stored at the dealer | Inventory Condition | |
| Vehicle is delivered to customer | Customer Delivery | |

**NOTE:** The Extended Storage Switch is only an aid to improve battery life during vehicle storage at the dealer. If the Extended Storage Switch fuse ever needs service after vehicle delivery, discard the Extended Storage Switch and install the correct fuse in its place.
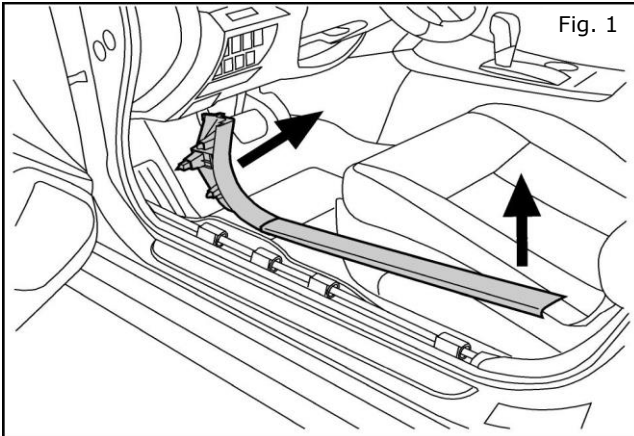
4) Turn ignition switch to "**ON**" position
5) Record the customer radio presets and other presets as required.

| Preset | 1 | 2 | 3 | 4 | 5 | 6 | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

6) Put shift lever in "**P**" position for A/T and CVT or "1st" for M/T
7) Turn ignition switch to "**OFF**" position
8) Use seat and floor protection.

# INSTALLATION INSTRUCTIONS - Welcome lighting Kit
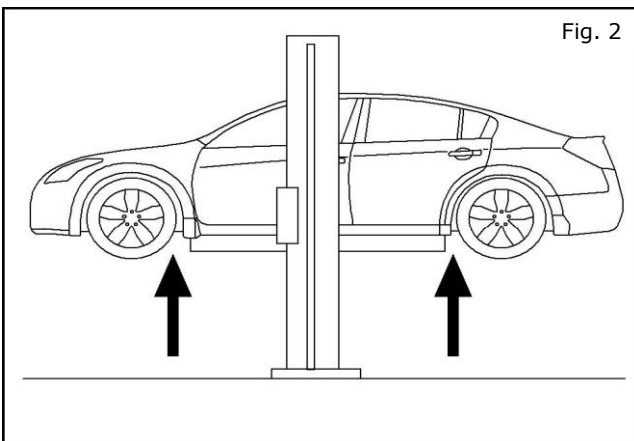
## INTERIOR PREPARATION

Fig. 1

1) Use a trim stick to carefully pry off trim panel along bottom door seal from back of the seat up to footwell.

   **NOTE:**
   **Begin prying the panel off at the rear edge and work forward.**
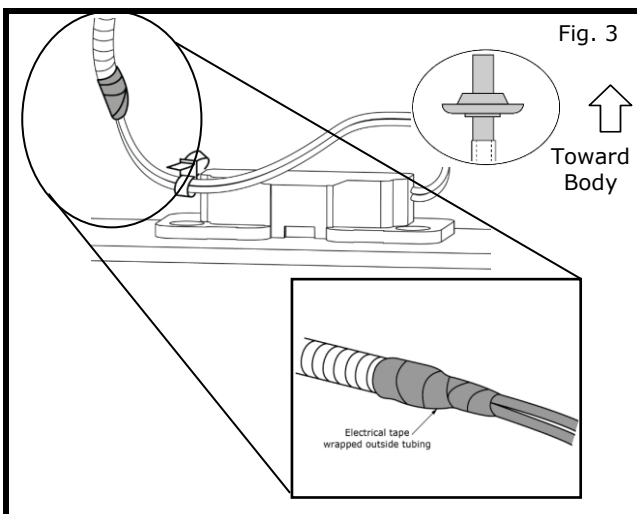
2) Repeat process for passenger side.

Fig. 2

3) Raise vehicle.

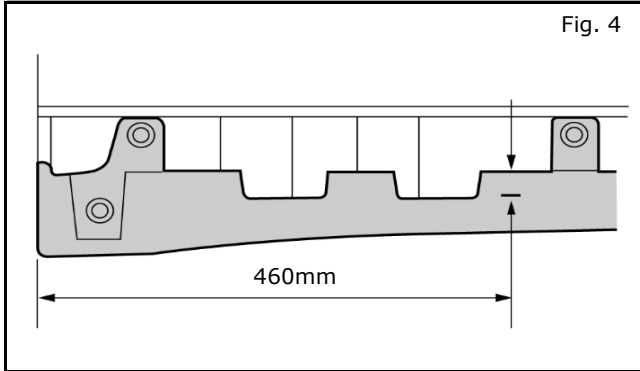   **NOTE:**
   **Use caution when placing lift pads.**

**PRE-PREP LED POWER HARENSSES AS SHOWN IN STEPS 4-5 prior to installing**

Fig. 3

Toward Body

Electrical tape wrapped outside tubing

4) Install grommet and flex tube.
   a) Feed one of the grommets over the flex tube, see fig 3.

5) Apply mastic sealant to flex tube. Cover with electrical tape. Apply mastic approximately 100 mm from double tie strap on wire.

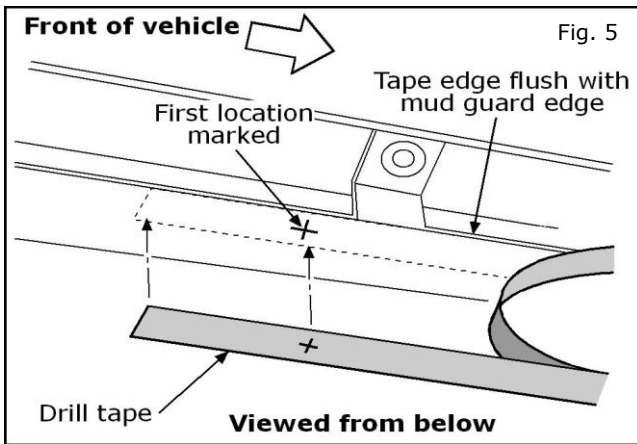# INSTALLATION INSTRUCTIONS - Security Lighting Kit

## VEHICLE PREPARATION



Fig. 4

460mm

**NOTE:**
**The Altima is drilled with mud guards on vehicle. The following steps are performed from below looking up at bottom of**

6) Starting at the REAR edge of the mud guard, measure and mark 460mm (18 inches) from rear edge of guard.
   Measure and mark 13mm (1/2 inch) from inner edge of mud guard.



**Front of vehicle**

Fig. 5

First location marked

Tape edge flush with mud guard edge

Drill tape

**Viewed from below**

7) Apply drill guide tape by peeling adhesive backing off tape and aligning first drill mark with starting hole position as marked on mud guard.
   Carefully apply tape along length of mud guard. Be sure to keep drill marks on tape at 100mm from inside edge of mud guard.
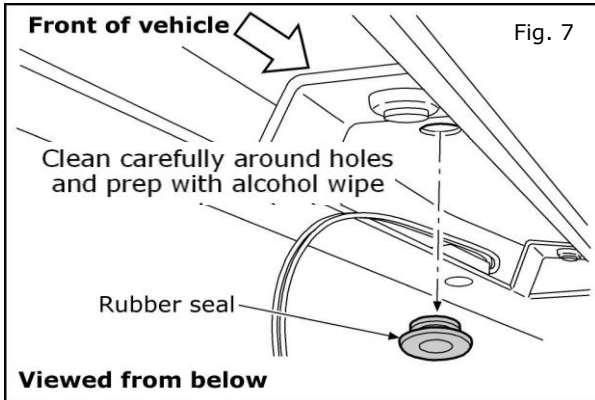


Fig. 6

1645mm

1250mm

855mm

460mm

Center of Vehicle

20mm   20mm   20mm   20mm
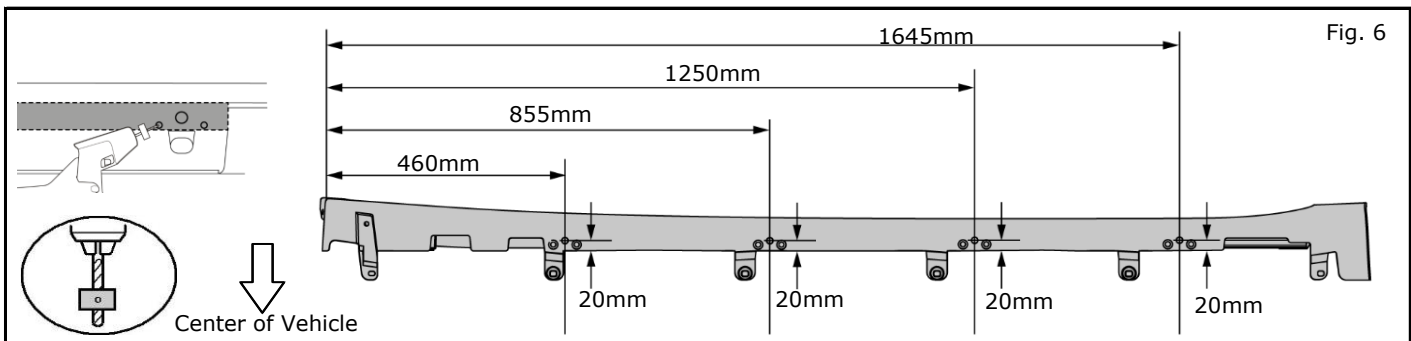
8) If drill guide tape is not available, use a tape measure to mark three locations at 16 inches apart. These three hole locations are 13mm from the inside edge of the mud guard. You can also use LED assembly to determine location of each hole.

9) Using drill bit , drill four holes 1/2" for LED's and eight 3/8" holes for push pins shown on template. Take care to not damage sill sheet metal.

**Deburr each hole so there is no flashing or shoulder from the drill.**
**Repeat process for both mud guards.**

## VEHICLE PREPARATION



Fig. 7

Front of vehicle

Clean carefully around holes and prep with alcohol wipe

Rubber seal

Viewed from below

10) Clean inside surface of mud guard where retaining tape will be mounted with soap and water.  Dry surfaces. Next, wipe with an alcohol prep pad(s) at areas shown.
Wipe both mud guards. Allow minimum of 1 minute to be sure alcohol is completely dry.

11) Remove plastic/rubber plug under vehicle close to front doors.

   **NOTE:**
   **This will be the pass through for the wires that control the LED assembly.**



Fig. 8

LH Shown
Front of Vehicle

Push Pins

LH    RH

Retaining Tape

LED Module    LED Module
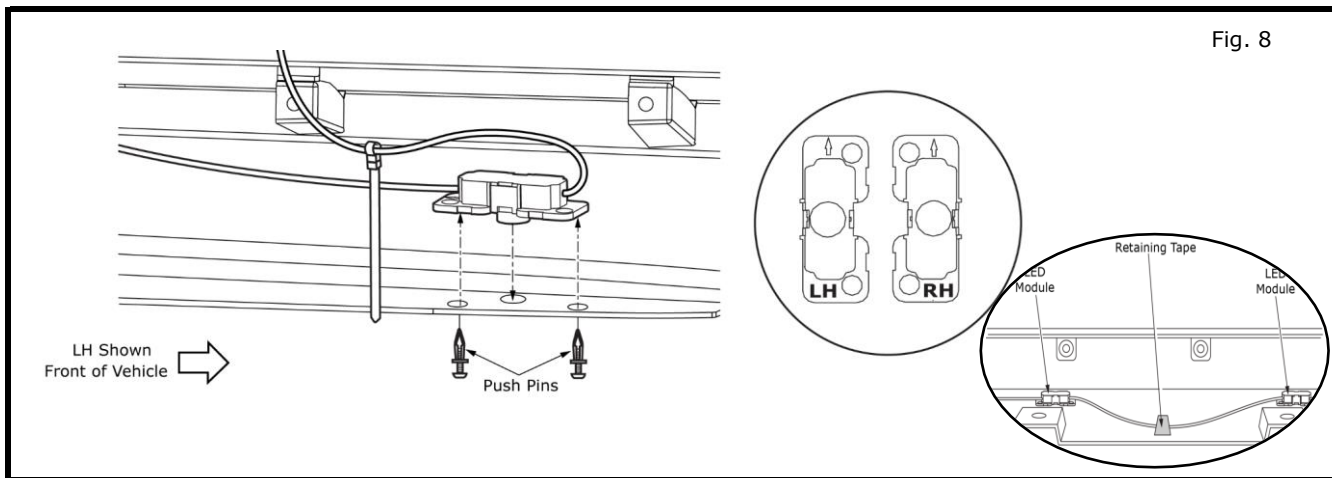
12)  Starting at end module without wires at both ends, carefully feed LED string through side skirt from front of vehicle to rear of vehicle.  Place lens of LED into last hole, being sure to align attachment holes with holes in side skirt, use two (2) push pin fasteners to attach LED bracket to side skirt as shown. Continue attaching LED's towards front of vehicle for remaining length of side skirt.

 **NOTE:**
 **Verify before attachment that you are using the LED string marked "LH" with the left side skirt and "RH" with the right side skirt.**

13)  Repeat step 12 with the remaining three (3) LED modules. Be sure the wiring between the modules does not become twisted as you are installing them to the center side skirt.  Once all the LED modules are in place, secure the wiring in between with one (1) piece of retaining tape as shown.
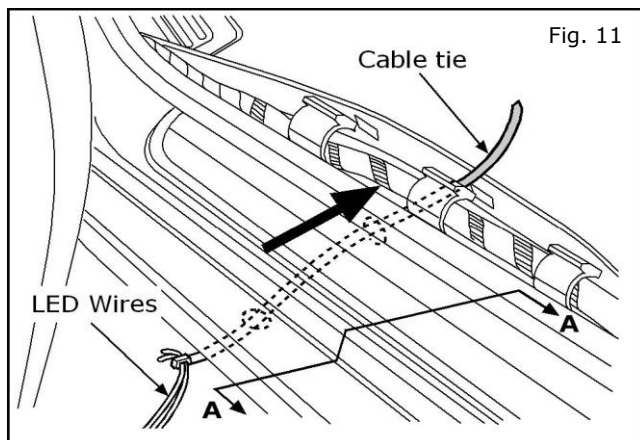
# INSTALLATION INSTRUCTIONS - Welcome lighting Kit

## VEHICLE PREPARATION



Fig. 9

Front of vehicle
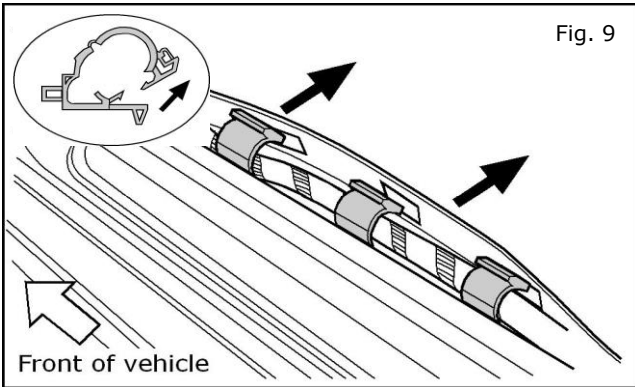
14) Carefully pry open three (3) plastic wire harness clips from inside driver side door sill. Carefully pull back carpet edge.



Front of vehicle

Fig. 10

Metallic tape

Access Hole

Carpet
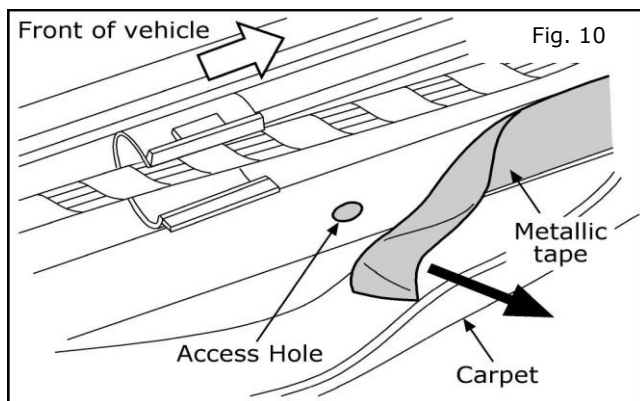
15) Carefully peel back metallic tape to expose access hole on the inside edge of door sill.



Fig. 11

Cable tie

LED Wires

A

A

16) Next, feed the wires through the end of a long cable tie. Use the cable tie to route the wires through the hole in the bottom of the vehicle and up through the access hole inside the door sill.



Inner Sill

Tie Strap

LED Wires

Tape

## INSTALLATION



Fig. 12

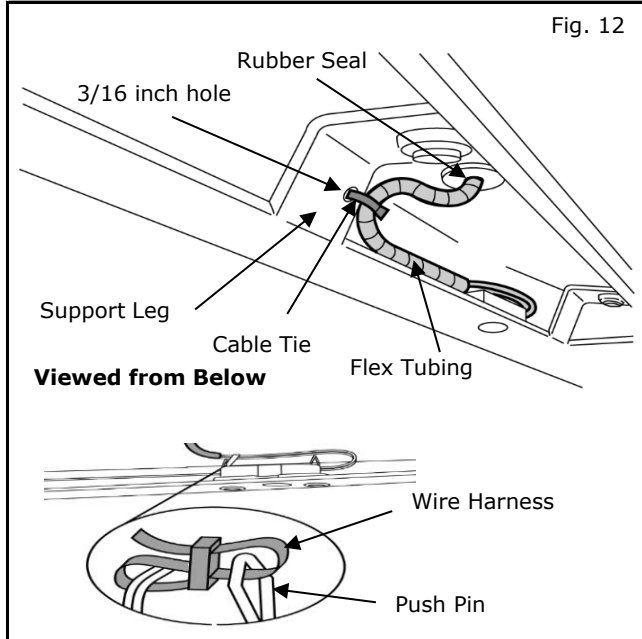Rubber Seal
3/16 inch hole
Support Leg
Cable Tie
Flex Tubing
**Viewed from Below**
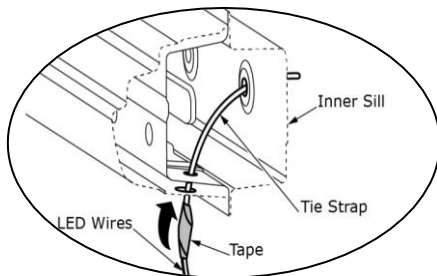
Wire Harness
Push Pin

17) From below vehicle, feed flex tubing through both access holes. Slide another rubber seal provided in kit over harness and flex tubing from inside vehicle.

18) Press lower rubber seal into position. Locate support leg from mud guard to vehicle close to bottom seal. Drill a 3/16 inch hole midway between guard and vehicle. Use a 4 inch cable tie to secure harness to support leg.

19) Ensure wire harness double tie strap is attached to wire and push pin EXACTLY as shown.

   a) Feed wire harness and convoluted tubing through bottom hole to inner sill.



Front of vehicle
Fig. 13
Electrical tape
Rubber seal
Flex tubing
Clean surface before installing seal
Carpet

20) Pull excess flex tubing inside vehicle. Press inside rubber seal into position. Wrap electrical tape around the open   end of flex tubing.
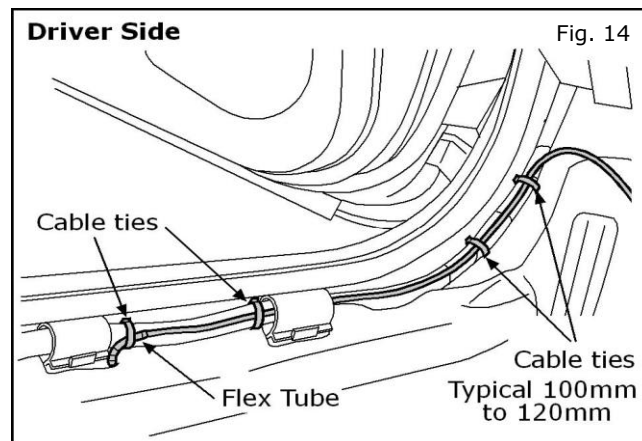
   **NOTE:**
   **Make sure both seals, top and bottom, are properly installed.**
   **Repeat procedure for passenger side of vehicle.**



**Driver Side**
Fig. 14
Cable ties
Flex Tube
Cable ties
Typical 100mm to 120mm

21) Route wires from driver side up towards the dash by running wires along existing harness and securing with cable ties.
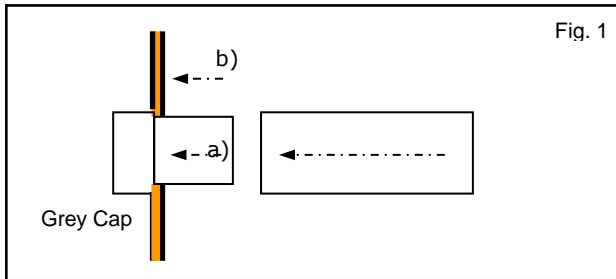
   **NOTE:**
   **Recommended spacing for cable  ties is 100mm to 120mm. Position cable ties as shown.**
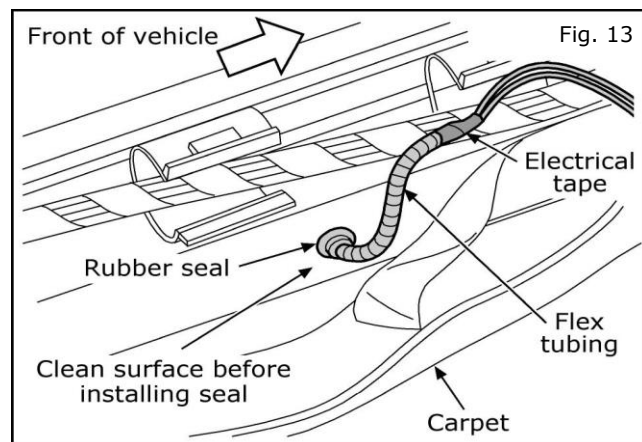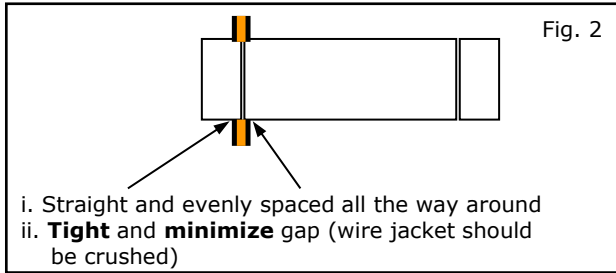
# INSTALLATION INSTRUCTIONS - Welcome lighting Kit

## POSI TAP INSTRUCTION

Fig. 1

b)

a)

Grey Cap

1) Tap vehicle wire.
   a) Remove grey cap (slot side) from tap body.
   b) Slide cap around vehicle wire.
   c) Tighten the tap **TIGHT** with finger pressure.

**NOTE: Do not re-use the tap for subsequent re-installation. Figures are not to scale**

Fig. 2

i. Straight and evenly spaced all the way around
ii. **Tight** and **minimize** gap (wire jacket should be crushed)

2) Inspect the tap to ensure correct installation.

**NOTE: Avoid putting pressure on the vehicle wire and tap for the remainder of the installation.**

Fig. 3

e) Insert wire to here

Red C ap

c)

a)

d)

f) Tighten
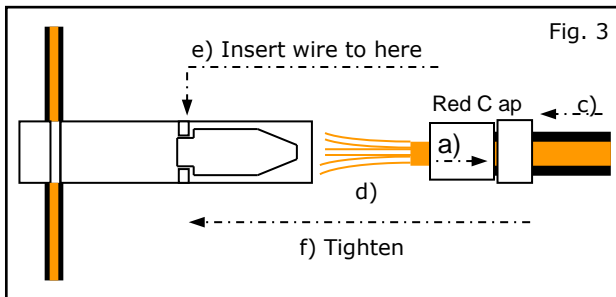
3) Inspect the tap to ensure correct installation.

   a) Remove red cap (non-pierce) side from tap.
   b) Remove the protective stub from the wire.
   c) Insert wire through the non-pierce side opening.
   d) Spread the individual strands into fan shape.
   e) Insert wire into the tap body and ensure that it is all the way in.
   f) Tighten the tap **TIGHT** with finger pressure.

Fig. 4

i. Straight and evenly spaced all around
ii. Tight and no gap and test the signal
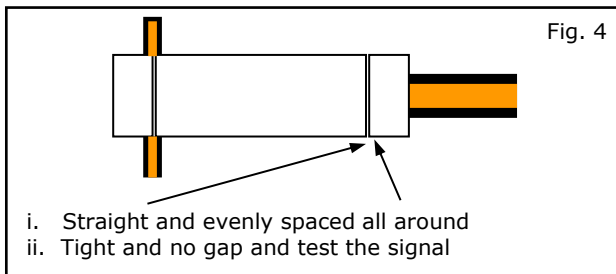
4) Confirm the tapped accessory wire.

   a) Inspect the tap to ensure correct installation.
   b) Test the signal to ensure that it is working properly.

Fig. 5

Vehicle Harness
b)
a)

Accessory
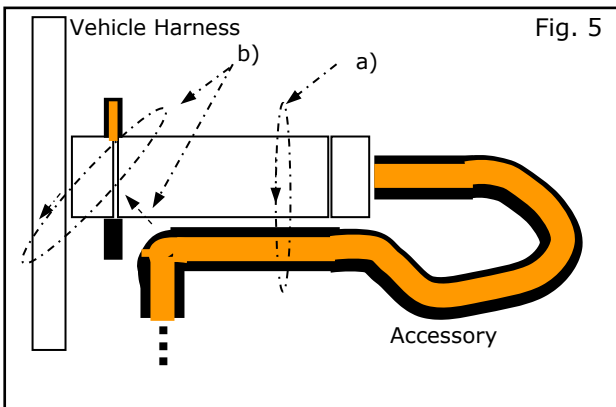
5) Secure the tap.

   a) Secure the tapped wire on the non-pierce side to the body of the tap with electrical tape (≥ 2 revolutions).
   b) Secure the body to harness where vehicle wire is being tapped with electrical tape (≥ 2 revolutions).

# INSTALLATION INSTRUCTIONS - Welcome lighting Kit

**INSTALLATION**

## CAUTION

- **If a vehicle wire is being used by another accessory and a posi-Tap is present, tap the accessory wire NOT the vehicle wire.**



Fig. 15

Accessory connector plug

Brake Pedal

**Driver footwell**
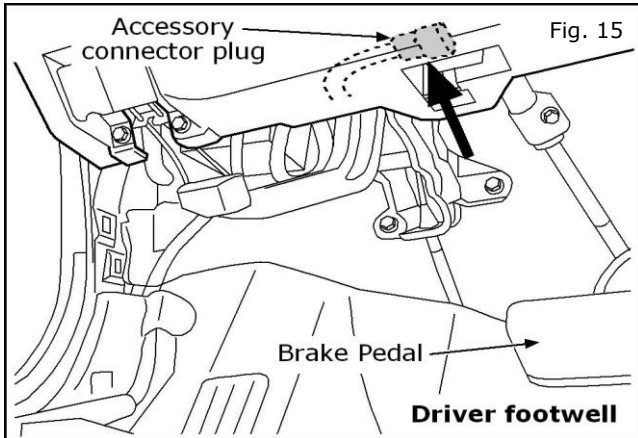
20) Locate driver side Accessory Connector plug. It will be located up under dash above vehicle diagnostic port as shown. Pull plug down for easier access.

**NOTE:**
**Be sure to grab connector and not harness when separating the plug from foam tape.**

**A previously installed accessory may be present. If so, carefully remove accessory connector harness from accessory connector plug before posi-tapping. It is recommended that all posi-tapping be completed before reattaching the accessory connector harness to**



Fig. 16

21) Using posi-taps, connect the Driver's side wiring as follows:
**Black** wire from the LED Assembly to the **Black** wire on the Control Module Harness.

**Red** wire from the LED Assembly to the **Orange** wire on the Control Module Harness.

**Black** wire from the Control Module to the **Black** wire on the Connector Harness.

**Orange** wire from the Control Module to the **Grey** wire on the Connector Harness.

**White** wire from the Control Module to the **Lt Blue** wire on the Connector Harness.

**Purple** wire from the Control Module to the **Pink** wire on the Connector Harness.

**Green** wire from the Control Module to the **Purple** wire on the Connector Harness.
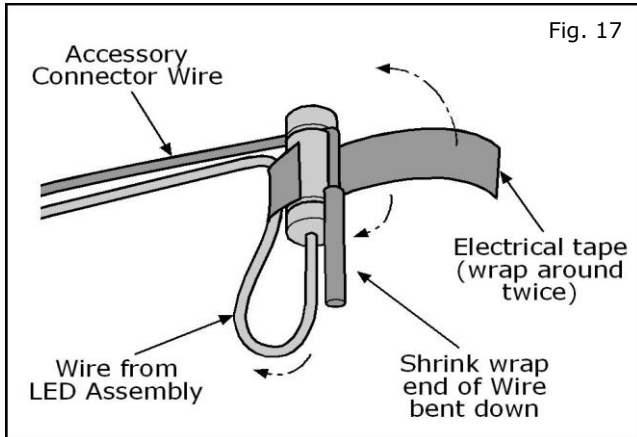
**HARNESS NOT INCLUDED IN KIT. REFERENCE PART NUMBER 999Q9 AY001 / T99F6 4RA0A.**
Posi Tap (F)

**INSTALLATION**



Fig. 17

Accessory Connector Wire

Electrical tape (wrap around twice)

Wire from LED Assembly

Shrink wrap end of Wire bent down
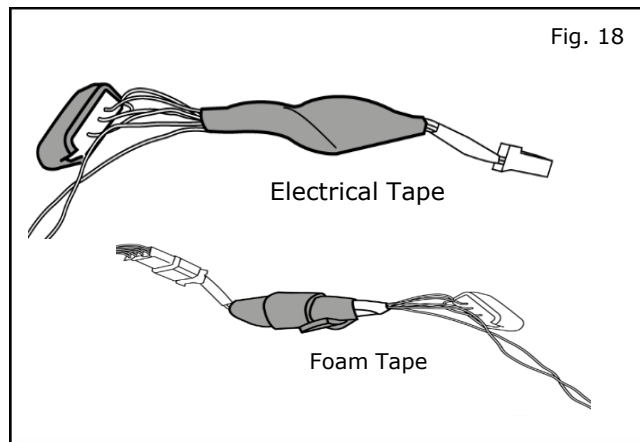
22) Follow this finishing procedure on all posi-taps. Leave a short length of wire extended past the posi-tap and bend down as shown. Use electrical tape to secure the extra wire against the posi-tap with at least two revolutions.

**NOTE:**
**Make sure that the end of the wire is completely covered by the tape.**



Fig. 18

Electrical Tape

Foam Tape

23) Wrap Posi-Taps and any excess wiring from LED harness to the Accessory connector harness and with electrical tape as shown.
a) Over wrap electrical tape with foam tape to prevent rattle.



Cable tie

Fig. 19

Foam taped Connector

Fuse panel

Connector plug

Route above these cables
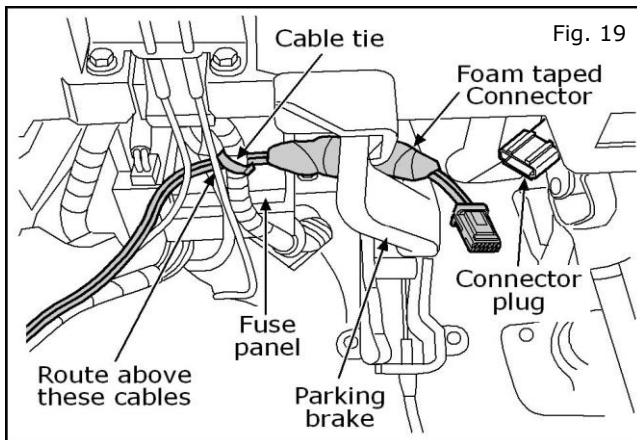
Parking brake

24) Route wires up under dash along existing harness. Feed wires above hood release and parking brake release cables. Use a cable tie to secure the wiring to large harness loop ahead of the fuse panel.

**NOTE:**
**The view shown here is looking up under the dash at the parking brake pedal.**

**INSTALLATION**



Fig. 20

Cable tie

Foam taped Connector

Harness

Parking Brake

25) Plug the Accessory Connector Harness into vehicle connector plug on driver side. Wrap Connector in foam tape. Use cable tie to secure Accessory Connector to existing harness as shown.
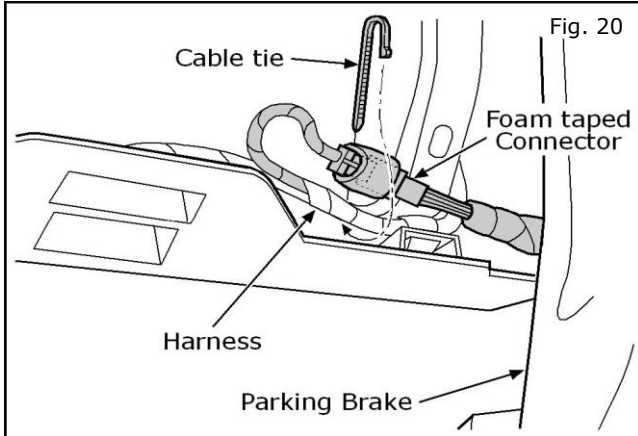
**NOTE:**
**View shown here is looking up under dash from behind, next to parking brake pedal.**



Fig. 21

Fuse block

Foam wrapped control module

Front of vehicle
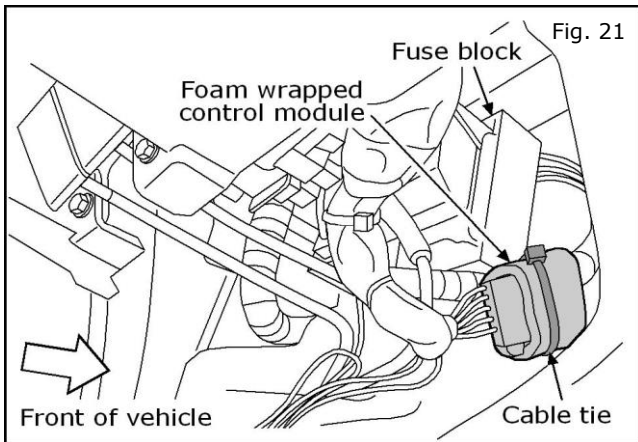
Cable tie

26) Wrap Control Module with foam tape to prevent rattle. Use cable tie to secure it to existing wire harness at base of fuse block.



Fig. 22

Parking Brake

Cable ties

**Driver footwell**
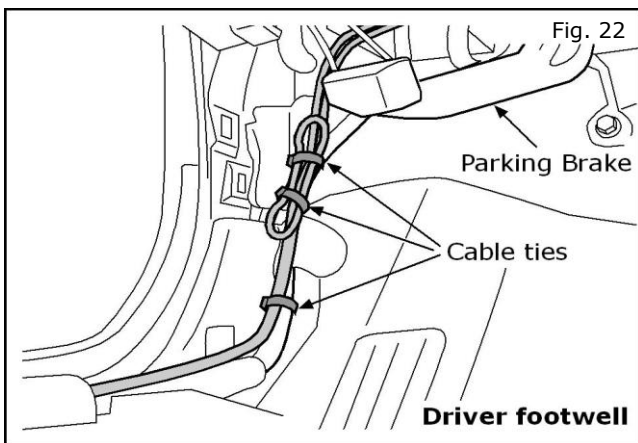
27) Route wires along existing harness in footwell. Bundle and secure any excess wire with cable ties as shown.

# INSTALLATION INSTRUCTIONS - Welcome lighting Kit

**INSTALLATION**



Fig. 23

Passenger Side

Typical 100mm to 120mm

Cable ties

Carpet

Flex Tube

28) Route wires from passenger side up towards dash by running wires along existing harness and securing with cable ties.

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



Fig. 24

Accessory connector plug

Passenger Footwell

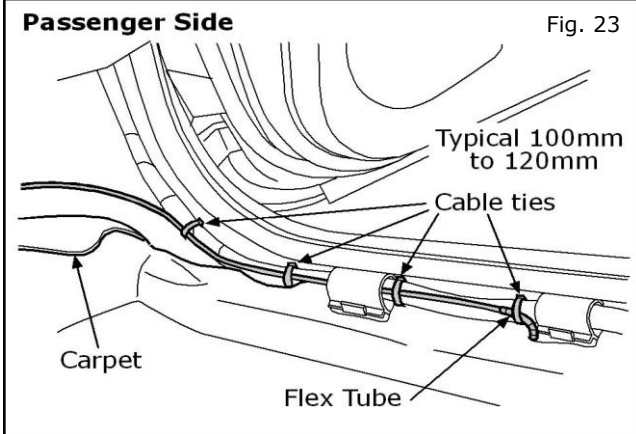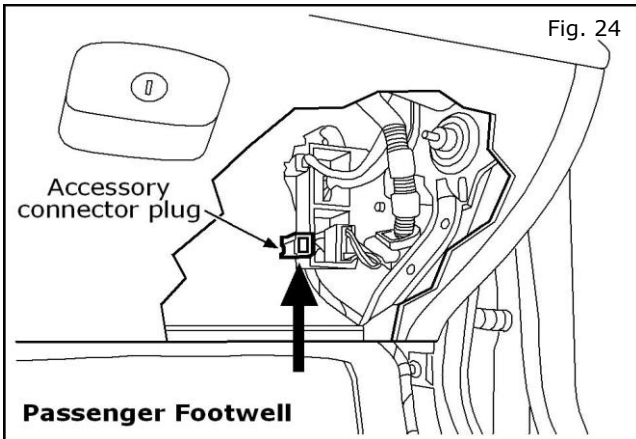29) Locate passenger side Accessory Connector plug. It will be behind glovebox on right side as shown in this cutaway view.



Fig. 25
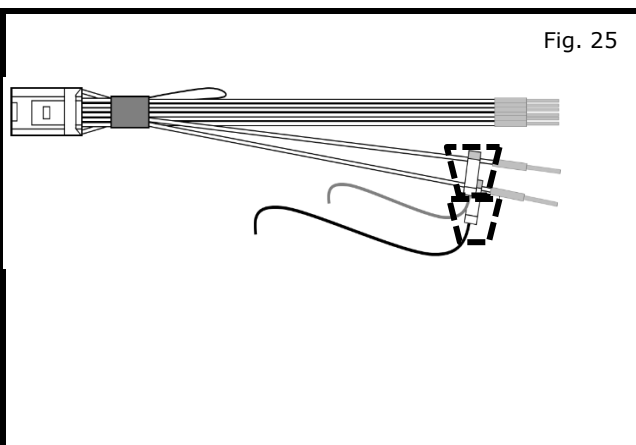
30) Using a posi-tap, connect **Black** wire from LED Assembly to **Black** wire on Accessory Connector Harness.

   Using a posi-tap, connect **Red** wire from LED Assembly to **Grey** wire on Accessory Connector Harness.

   **Plug** Accessory Connector Harness into vehicle connector plug on **passenger side.**

   **HARNESS NOT INCLUDED IN KIT. REFERENCE PART NUMBER 999Q9 AY001 / T99F6 4RA0A.**

   **Posi Tap (F)**

# INSTALLATION INSTRUCTIONS - Welcome lighting Kit

**INSTALLATION**



Fig. 26

Drain Tube

Cable ties

Front of vehicle
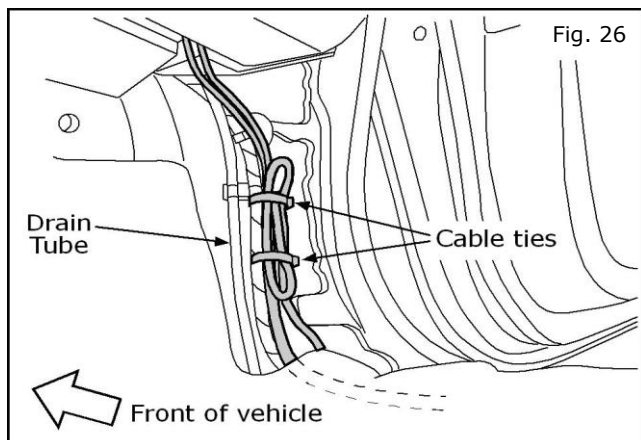
31) Route wires along existing harness. Bundle and secure any excess wire between the kick plate and the Accessory Connector with cable ties as shown.

**NOTE:**
**Do NOT secure the wiring to the drain tube in any way.**

32) **Close** the three (3) wire harness clips inside the door sills and **reinstall** the carpet edge, both sides (see Fig. 13).

   **Note: Be sure to align the rectangular carpet holes with the harness clips.**

33) **Reinstall** the side trim panels on both sides of the vehicle along the bottom door seals from seat to footwell (see Fig. 1).

   **Note: Trim all cable ties. Check all wiring. Make sure all trim is in place.**

# INSTALLATION INSTRUCTIONS - Welcome lighting Kit

**CHECK OUT**

Inspect vehicle for unfinished work.  Reconnect the battery negative terminal.

(1) Close all doors.

(2) Using the keyless entry fob, press the door unlock.

(3) Verify the security lighting turns on and off with the dome lamp in the car.

(4) Enter the car and press the door unlock and then start the car.

(5) Verify the security lamps turn off when the car starts.

(6) With the car running, shifter in park, open the door and Verify the lights remain off.

(7) Turn off the car and open the door again and verify the lights come on when the door
     is opened.

(8) Unlock the doors, wait and then lock the doors. The Security lighting should turn off
     quickly with the doom lamp.

(9) Verify the functionality of all electrical vehicle components where harnesses were accessed.

(10) Check and clear trouble codes (DTC).

(11) Check power window auto-up control. If it is not functioning properly, hold switch in "up"
      position for 5 seconds.

(12) 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 "inventory" position.
      (Refer to section 9 - Vehicle Preparation)

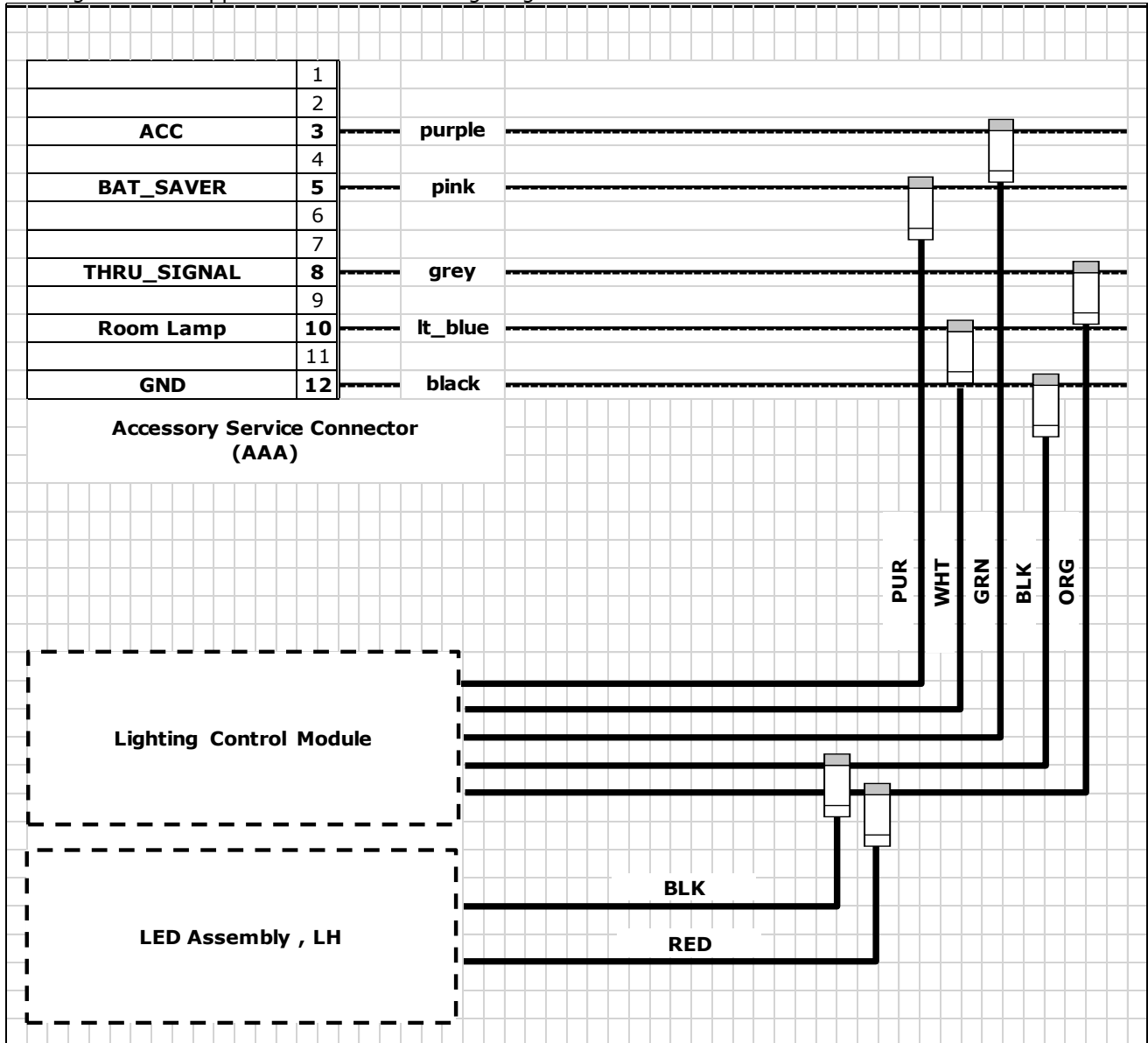(13) If vehicle is NOT going into storage, reset the radio presets to the recorded settings.

# BILL OF MATERIALS

| ITEM NO. | OTY | Part Name | Part Number |
|---|---|---|---|
| 1 | 1 | Welcome / Security Lighting Kit | T99F4 5CH1B |
| 2 | 1 | Control module | N/A Part of T99F4 5CH1B |
| 3 | 1 | LED PODS with Rugby Lens - RH | |
| 4 | 1 | LED PODS with Rugby Lens  - LH | |
| 5 | 1 | Hardware Kit | |
| 6 | 11 | Grey foam rectangle 80mm x 30mm x 5mm thick - adhesive one side | |
| 7 | 14 | Cable ties 4" long - black | |
| 8 | 7 | Cable ties 11" long-black | |
| 9 | 1 | Cable ties 30" long-white | |
| 10 | 9 | Posi-tap connectors part No EX130-RR | |
| 11 | 8 | 40mm x 20mm Adhesive Pads | |
| 12 | 1 | Q60, Altima Drill Template Strip | |
| 13 | 1 | Q50, Sentra, Rogue  Drill Template Strip | |
| 14 | 4 | Alcohol Preparation Wipe | |
| 15 | 4 | Rubber Grommet GRM-0750P34C | |
| 16 | 16 | Push Pins | |
| 17 | 2 | Corrugated Flex Tube | |
| 18 | 2 | 3M Butyl Gum | |
| 19 | 1 | Parts List / Replacement Template | |
| 20 | 0 | Q50/Q60 INSTALLATION INSTRUCTIONS (WEB) | T99F4 5CH1BII |
| 21 | 0 | Altima INSTALLATION INSTRUCTIONS (WEB) | 999F4 U6010II |
| 22 | 0 | Maxima INSTALLATION INSTRUCTIONS (WEB) | T99F4 4RA5BII |
| 23 | 0 | Rogue INSTALLATION INSTRUCTIONS (WEB) | 999F4 G6000II |
| 24 | 0 | Sentra INSTALLATION INSTRUCTIONS (WEB) | 999F4 L6010II |
| 25 | 2 | Accessory Service Connector Harness (NOT INCLUDED IN KIT) | 999Q9 AY001 / T99F6 4RA0A |

# INSTALLATION INSTRUCTIONS - Welcome Lighting Kit

**MECHANIZATION**

Figure below applies to the Welcome Lighting connected to the LH ASC

| | | |
|---|---|---|
| | 1 | |
| | 2 | |
| ACC | 3 | purple |
| | 4 | |
| BAT_SAVER | 5 | pink |
| | 6 | |
| | 7 | |
| THRU_SIGNAL | 8 | grey |
| | 9 | |
| Room Lamp | 10 | lt_blue |
| | 11 | |
| GND | 12 | black |

**Accessory Service Connector**
**(AAA)**

PUR  WHT  GRN  BLK  ORG

**Lighting Control Module**

**LED Assembly , LH**

BLK

RED

| CONNECTOR PN# | 999Q9 AY001 / T99F6 4RA0A | LEGEND |
|---|---|---|
| CONNECTOR NAME | ACCESSORY SERVICE CONNECTOR | |
| CONNECTOR COLOR | WHITE | POSI-TAP |

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

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.

# INSTALLATION INSTRUCTIONS - Welcome Lighting Kit

**MECHANIZATION**

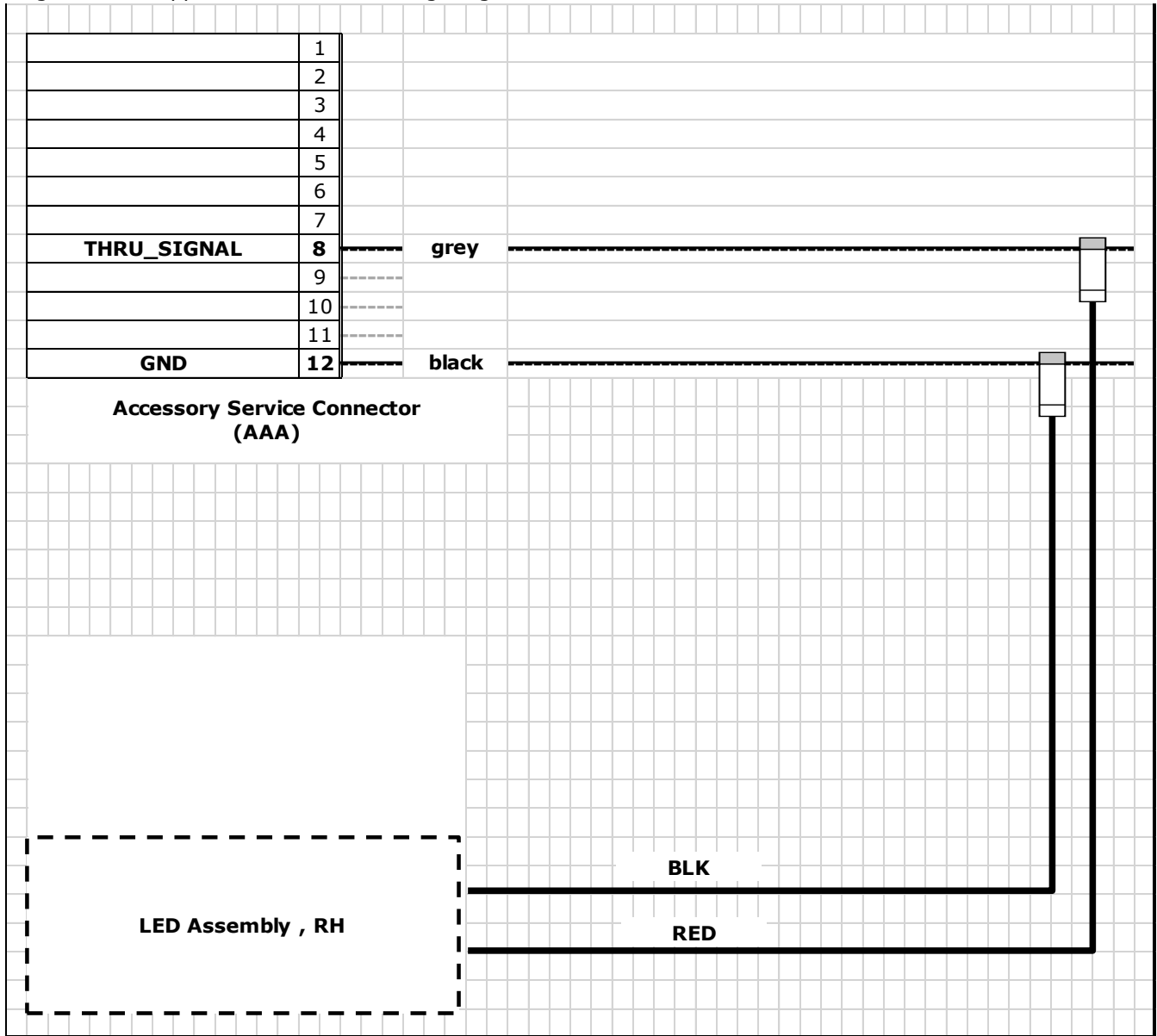Figure below applies to the Welcome Lighting connected to the RH ASC

| | | |
|---|---|---|
| | 1 | |
| | 2 | |
| | 3 | |
| | 4 | |
| | 5 | |
| | 6 | |
| | 7 | |
| **THRU_SIGNAL** | **8** | **grey** |
| | 9 | |
| | 10 | |
| | 11 | |
| **GND** | **12** | **black** |

**Accessory Service Connector
(AAA)**

**LED Assembly , RH**

**BLK**

**RED**

| | | | LEGEND |
|---|---|---|---|
| CONNECTOR PN# | 999Q9 AY001 / T99F6 4RA0A | | |
| CONNECTOR NAME | ACCESSORY SERVICE CONNECTOR | | |
| CONNECTOR COLOR | WHITE | | POSI-TAP |

**UNIT**

**H.S.**

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

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.