

Preparation

**Part #: PT923-00098**

NOTE: Part number of this accessory may not be the same as the part number shown.

**Conflicts: JBL Audio, Factory Navigation**

**Kit Contents:**



**Hardware Content**

Item#	Quantity Req.	Description
1	1	Interface Module
2	1	Main Power Harness
3	1	BLU Logic Switch
4	1	Switch Extension Cable
5	1	Microphone
6	15	9.5" Lock Ties
7	2	Adhesive Foam Pad
8	1	Owner's Manual
9	33 cm	1/4" Wire Split Loom

**Additional Items** (may be required)

Item#	Quantity Req.	Description

**Recommended Sequence of Application**

Item#	Quantity Req.	Description

**Vehicle Service Parts** (may be required for reassembly)

Item#	Quantity Req.	Description








**General Applicability**

**Note:**

**Recommended Tools**

Personal & Vehicle Protection	Notes
Safety Goggles	
Seat Covers	
Floor Covers	
Special Tools	Notes
Panel Clip Removal	SST # 00002-06001-01
Sockets	10 mm
Screwdriver	Phillips, #2
Side Cutters	
Torque Wrench	36 in-lbf (4.07 N.m)
Installation Tools	Notes
Masking Tape	VDC Supplied
Foam Tape	VDC Supplied
Special Chemicals	Notes
Cleaner	VDC Approved Cleaner

**Legend**

-  **STOP:** Damage to the vehicle may occur. Do not proceed until process has been complied with.
-  **CAUTION:** A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle.
-  **OPERATOR SAFETY:** Use caution to avoid risk of injury.
-  **TOOLS & EQUIPMENT:** Used in Figures to call out the specific tools and equipment recommended for the process.
-  **REVISION MARK:** This mark highlights a change in installation with respect to previous issue.
-  **SAFETY TORQUE:** This mark indicates that torque is related to safety.
-  **VIDEO:** Video Available; click to Play

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**Accessory Installation Practice (read before installation)**

Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

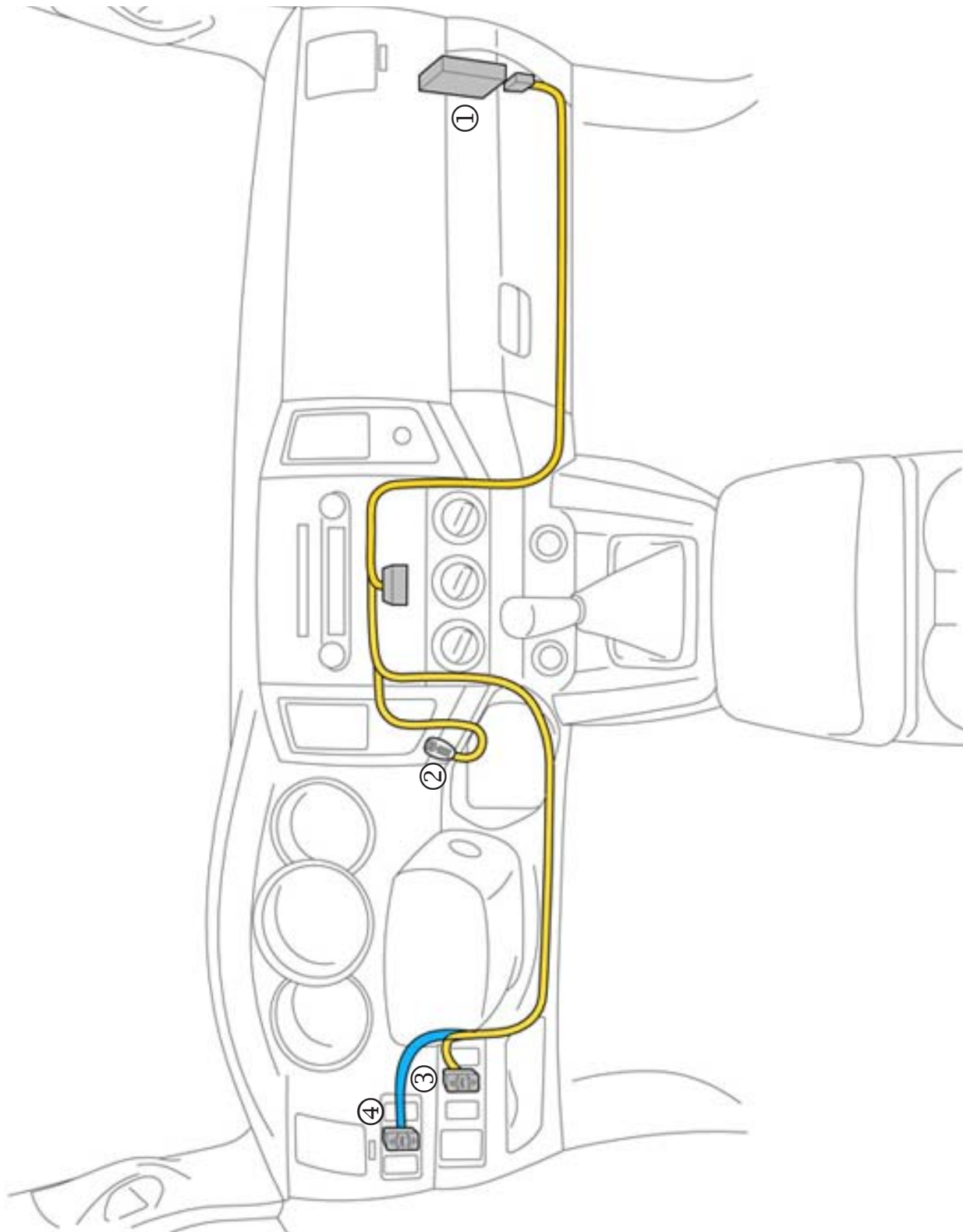
These guidelines can be found in the “Accessory Installation Practices” document.

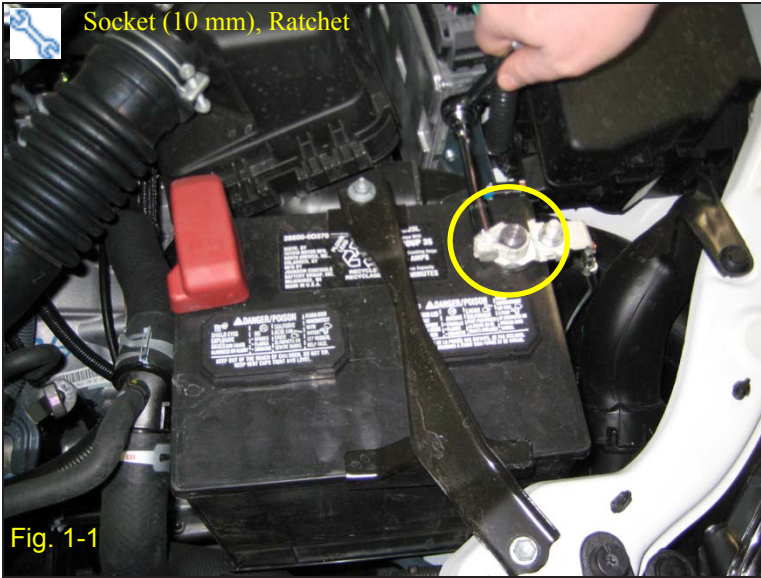
This document covers such items as:

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.)
- Safety (eye protection, checking torque procedure, etc.)
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.)
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.)

Please see your Toyota/Scion/Lexus dealer for a copy of this document.

Content Location	
1	Interface Module
2	Wired Microphone
3	BLU Logic Switch Location - Option I
4	BLU Logic Switch Location - Option II





### 1. Vehicle Preparation (Fig. 1-1)

- a. Apply parking brake.
  - b. Protect fender before starting.
  - c. Remove the negative (-) battery cable.
- STOP** CAUTION: Do not touch the positive terminal with any tool during removal.
- d. Using the protective blanket, cover front seat, side of the shift lever and center console.
  - e. Place removed vehicle components on a protective blanket.



### 2. Vehicle Disassembly

- a. Remove HVAC assembly.
  - 1. Disengage with hands or appropriate panel removal tool and remove (Fig. 1-2).
  - 2. Unplug all connectors.

NOTE: Protective tape is only required if panel removal tool is used.



- b. Remove radio assembly.
  - 1. Remove four (4) bolts securing the radio using a 10mm socket/ratchet (Fig. 1-3).



Fig. 1-4



Fig. 1-5

2. Using your hands, gently pull out the radio (Fig. 1-4).



3. Support the radio assembly on a support box (or with other appropriate means) to prevent any damage to the connections as well as preventing scratches.



NOTE: Be careful not to put too much tension on the radio connections when pulling out the radio.

4. Disconnect all connectors and set aside.

### 3. BLU Logic Switch Installation - Option I

a. Remove the tray to the right of the steering column (Fig. 1-5).

1. Using your hands, gently disengage and remove.

b. Remove knee panel.

1. Lower cover directly below the tray removed in Fig. 1-11 (Fig. 1-6).

2. Remove bolt with 10mm socket/ratchet (Rollover Image).



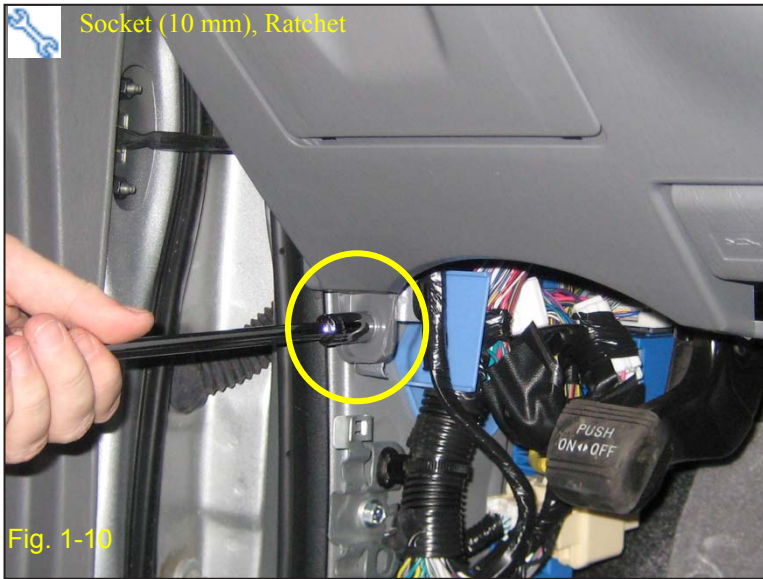
3. Disengage driver side step cover and remove (Fig. 1-7).



4. Remove footrest (Fig 1-8).

5. Remove plastic lock nut (Fig. 1-9).

6. Disengage kick panel with hands and remove (Rollover Image).



7. Remove bolt using 10mm ratchet/ socket (Fig. 1-10).
8. Disengage knee panel with hands and remove.



- c. Routing switch cable.
  1. Route over towards opening of radio.
  2. Follow existing wire loom.
  3. Leaving a pig tail that will connect to the BLU Logic switch, remove most of the slack and secure to existing wire loom with wire ties (Fig. 1-12).

NOTE: BLU Logic wire ties in Figure 1-12 and the remainder of these instructions will be shown in yellow.

4. Wire tie every 5-6 inches.
5. Cut off excess wire ties.

d. Mount Blu Logic Switch - Option I

NOTE: Check to see if there is an open knock-out on lower switch panel. If blank knock-out is present, continue with Step d. If blank knock-out is not present, skip to e.

1. Remove center blank plug and mount BLU Logic switch (Fig. 1-11).
2. Connect to pig tail.

NOTE: Use next available blank location if center location is occupied.





e. BLU Logic Switch Location - Option II

NOTE: Skip if using Switch Location- Option I

1. Remove center blank knock-out on left switch panel located on dash.
2. Mount switch with solid arrow pointed up.
3. Connect to pig tail.

4. Connect extra extension to the switch cable (Fig. 1-13).

NOTE: The switch cable will continue routing towards the glove box.

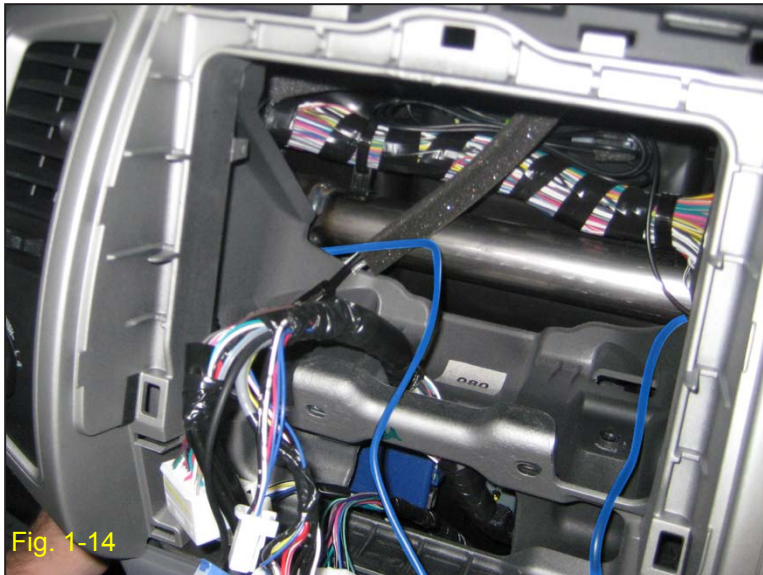


Fig. 1-14



Fig. 1-15

4. Microphone Installation

a. Route microphone.

1. Remove two (2) Phillips screws on the top of the cluster bezel (Fig. 1-14).
2. Disengage cluster bezel and remove.

3. Apply 33cm of the 1/4" split wire loom to the microphone end of the cable.
4. Leave a minimum of 8mm of wire (microphone side) exposed and secure split wire loom with tape.
5. Route wire to the side of the cluster over towards the opening of the radio (Fig. 1-16).
6. Remove the excessive slack and wire tie to existing wire loom circled in red (Rollover Image).

Fig. 1-16



Fig. 1-17

- b. Mount the microphone.
  1. Clean the microphone location with VDC approved cleaner.
  2. Mount the microphone to the far bottom left corner of the Radio/AC panel. Minimize the amount of exposed wire visible to the customer. 0-8mm of exposed wire is acceptable (Fig.1-17).

NOTE: Align left side evenly with left side of A/C panel. The cable will route to the small gap between the 3 panels (bezel, pocket and radio/AC bezel)

3. Reinstall knee panel, kick panel, door sill and tray.

## 5. Interface Module Installation

- a. Remove the glove box assembly.
  1. Push the left and right side of the glove box in to release the lock tabs (Fig. 1-18).
  2. Remove the dampener from the glove box.
  3. Using hands, gently pull out to release.



Fig-1-18



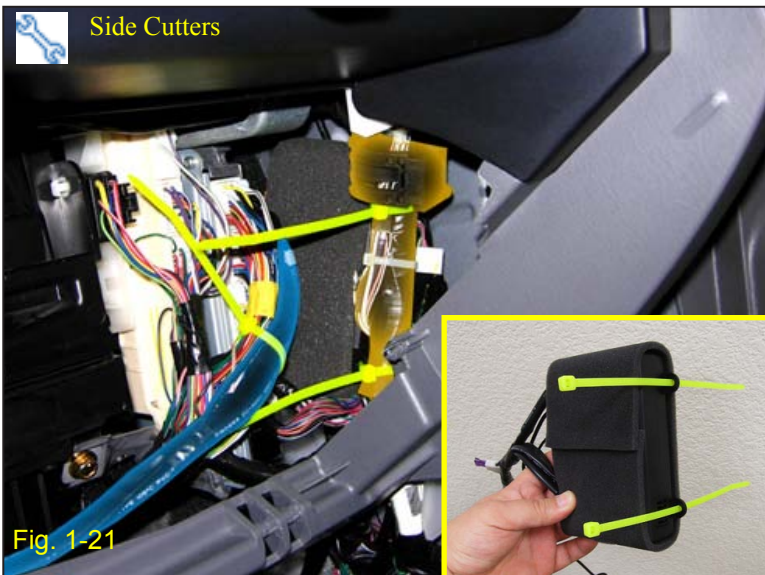
- b. Route the main wire harness.
  - 1. Connect the main wire harness to the matching vehicle's radio harness.
  - 2. Route through the opening of the radio over towards the opening of the glove box (Fig. 1-19).
  - 3. Also route the microphone and switch cable.



- 4. Connect main wire harness, switch and microphone cables to the interface module (Fig. 1-20).

NOTE: The Red connector is connected to the matching Red connector on the module.

DO NOT remove the protective foam wrap from the module.



- c. Mount the interface module.
  - 1. Insert two (2) wire ties through the rear of the module. Secure to existing wire loom to the right of glove box opening (highlighted in orange). (Fig. 1-21).
  - 2. Cut off excess wire ties.

NOTE: BLU Logic harnesses are highlighted in blue.

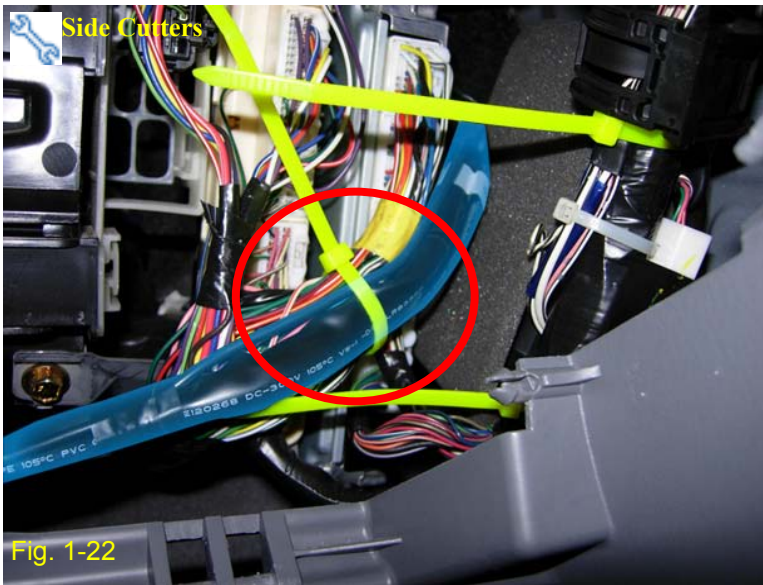


Fig. 1-22

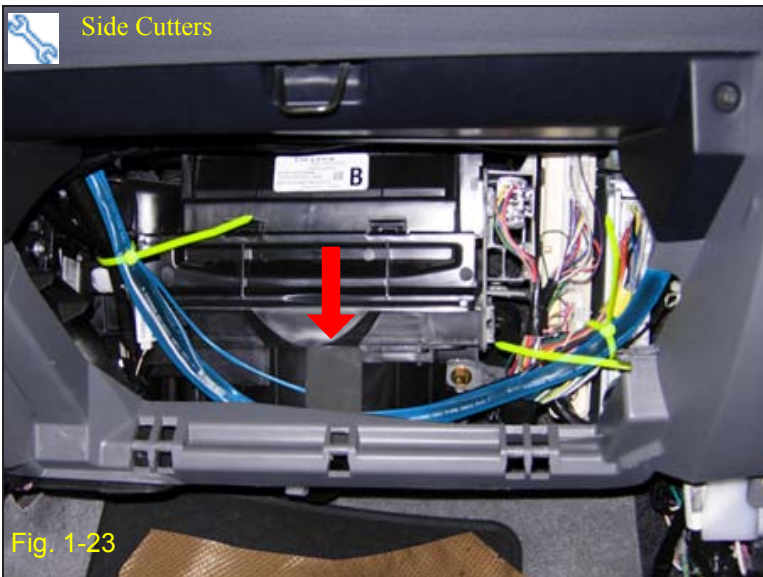


Fig. 1-23

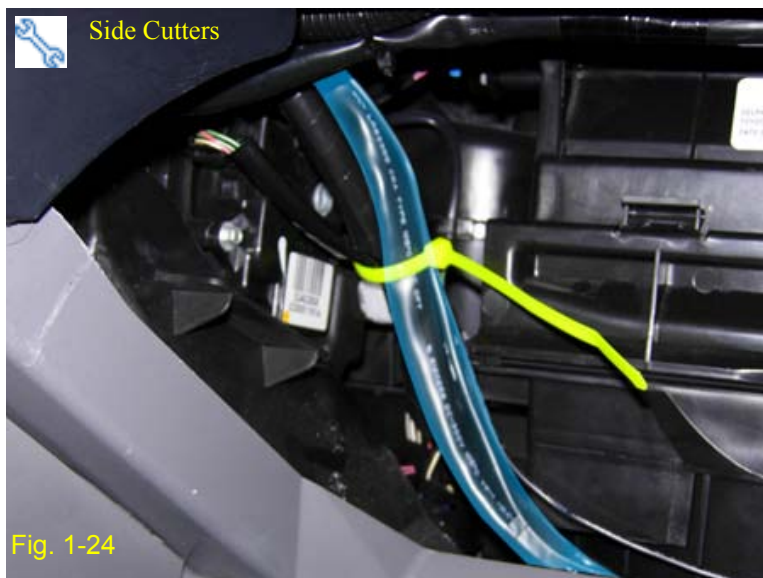


Fig. 1-24

d. Route BLU Logic Harnesses.

1. Bring the BLU Logic harnesses to the left of the module (Fig. 1-22).
2. Remove all slack from the harness and secure to the wire loom circled in Fig. 1-22.
3. Cut off excess wire ties.

4. Remove the slack from the BLU Logic harnesses.
5. Secure the middle with an adhesive foam pad (Fig. 1-23).

6. Secure the BLU Logic harnesses to the existing wire loom to the left of the glove box opening (Fig. 1-24).

7. Cut off excess wire ties.




Fig. 1-25



Fig. 1-26


Socket (10 mm), Ratchet

8. Bundle up the excess BLU Logic harnesses and secure it to the wire loom above the dash support beam (Fig. 1-25).

 **NOTE:** Ensure that the BLU Logic harness is positioned above the dash support beam. This will make the reinstalling of the radio easier.

## 6. Finalize the Installation


- a. Connect main power harness connectors to the radio's matching connectors as needed.

 **NOTE:** AVC-LAN (12 pin) connector may not be present on the vehicle's harness. Wire tie this connector to the harness unconnected, but ALWAYS connect the AVC-LAN (12 pin) connector into the radio.

If AVC-LAN (12 pin) connector is present on vehicle harness, connect to jumper provided with BLU Logic unit.

If any other accessories are installed that connect to the head unit, BLU Logic should be the unit that plugs into the radio first.

- b. Reinstall the radio.
- c. Reinstall the HVAC assembly.
- d. Reinstall cluster bezel, knee pad, pocket, kick panel and door step.
- e. Position negative battery cable at the original factory position (tighten the nut to 36 in-lbs (4.07 N.m). (Fig. 1-26).

 **CAUTION:** Do not touch the positive terminal with any tool during installation.

- f. Place owner's manual in the glove box.

## CHECKLIST – these points MUST be checked to ensure a quality installation.

Make sure radio and interior lights (if applicable) are turned off. Install fuse (short pin) for the following function checks.

**Accessory Function Checks**

	Check:	Look For:
<input type="checkbox"/>	Factory Radio	Turn on the radio and verify that the BLU Logic Module will mute the audio. With the radio on, press the middle button on the BLU Logic switch and verify that the audio is muted.
<input type="checkbox"/>	Interface Kit	Verify the proper connection of the Interface kit by pressing and holding the middle button on the switch until you hear one (1) beep.  NOTE: Pairing the module to a phone is not required. This is the customers (or dealers) responsibility.
<input type="checkbox"/>	Audio Output	Turn the radio to an AM or FM station and then turn the balance to the L and confirm the audio is coming from the left front speaker. Repeat for the right front speaker.

**Vehicle Function Check**

	Vehicle Function		Vehicle Function Detail
<input type="checkbox"/>	Audio AM/FM	<input type="checkbox"/>	Verify the proper operation of audio AM/FM.
<input type="checkbox"/>	Hazard Switch	<input type="checkbox"/>	Verify the proper operation of the hazard switch.
<input type="checkbox"/>	HVAC	<input type="checkbox"/>	Verify the proper operation of the air conditioning system.
<input type="checkbox"/>	RSCA Switch (if equipped)	<input type="checkbox"/>	Verify the proper operation of the RSCA Switch.
<input type="checkbox"/>	Mirror Control	<input type="checkbox"/>	Verify the proper operation of the mirror controls.
<input type="checkbox"/>	VSC (if equipped)	<input type="checkbox"/>	Verify the proper operation of the VSC switch.
<input type="checkbox"/>	NAV System (if equipped)	<input type="checkbox"/>	Confirm navigation operation by AVN diagnostics.
<input type="checkbox"/>	Operation of the L&R Seat Heater Switch	<input type="checkbox"/>	Verify the proper operation of the L&R heater switch.
<input type="checkbox"/>	SRS Warning Light	<input type="checkbox"/>	Confirm SRS warning light illuminates for approximately 6 seconds with the ignition ON, and then goes out.
<input type="checkbox"/>	Tire Pressure Monitoring System (TPMS)	<input type="checkbox"/>	<i>Prior to TPMS activation and Pre-delivery Service (PDS) of the Vehicle the TPMS light will blink when IG is turned on.</i>  <i>After TPMS activation and PDS of the Vehicle the TPMS light will illuminate for a few seconds and go off when IG is turned on.</i>

Turn off all components including radio and interior lights. Remove fuse (short pin) after function checks are complete. Check with your dealer/port to find out if this step is required.

**Kit Service Information**

	Item:	Location:
1	3-Amp in-line Fuse	The fuse is located behind the glove box assembly. To replace, follow Step 17 to access the fuse location.  NOTE: If the fuse is blown, the Hands Free BLU Logic will not turn on.