

## Preparation

**Part #: PT923-00111**

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

**Conflicts: JBL Audio, Factory Navigation**

**Kit Contents:** For kits manufactured on or after 19D0, installation kits will include BLU Logic Switch Decal. The manufacturing date code is on the part label of the packaging box and is printed as "DDMY". Please note that this manufacturing date is per Toyota standards and is in the format of DAY-DAY-MONTH-YEAR. Example: "31L8" date on label means "31st, December, 2008".

Item 1 	Item 2 	Item 3 	Item 4 	Item 5 	Item 6 	Item 7 	Item 8 
Item 9 	Item 10 						

**Hardware Content**

Item#	Quantity Req'd.	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	33cm	1/4" Wire Split Loom
10	1	BLU Logic Decal

**Additional Items** (may be required)

Item#	Quantity Req'd.	Description

**Recommended Sequence of Application**

Item#	Accessory
1	V4 Non Smart
2	BLU Logic
3	iPod Interface
4	XM Radio


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


Item#	Quantity Req'd.	Description

**General Applicability****Note:****Recommended Tools**


Personal & Vehicle Protection	Notes
Safety Goggles	
Seat Covers	
Floor Covers	
Special Tools	
Panel Clip Removal	SST # 00002-06001-01
Sockets	10 mm
Screwdriver	Phillips, #2
Side Cutters	
Torque Wrench	36 in-lb (4.07 N.m) ; 7.4 ft-lb (10 Nm)
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.

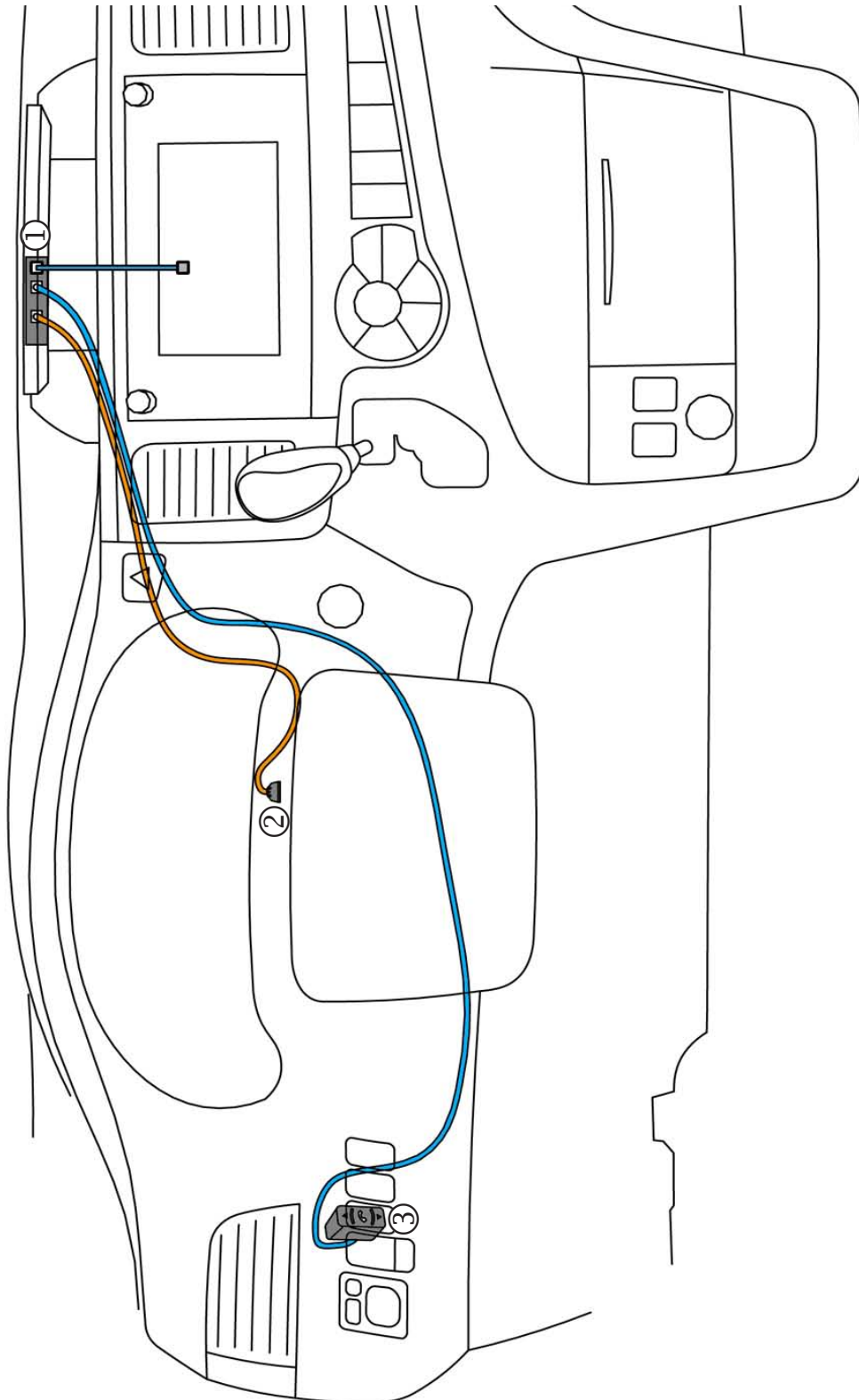
These guidelines can be found in the “Accessory Installation Practices” document.

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



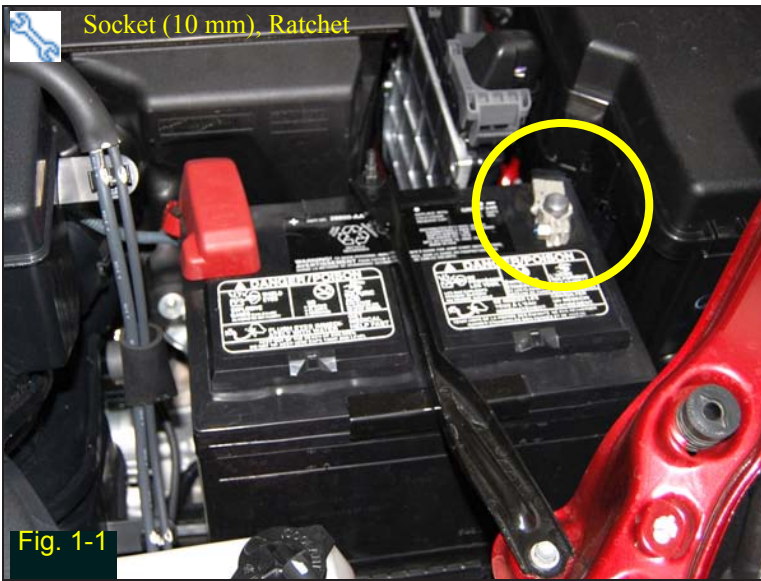


Fig. 1-1

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



- a. Apply parking brake.
- b. Protect fender before starting.



- c. Apply protective tape to the fuel door. This will prevent any damage that may occur during disassembly.
- d. Remove the negative (-) battery cable.



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

- e. Using the protective blanket, cover front seat, top of the shift lever and center console.
- f. Place removed vehicle components on a protective blanket.

## 2. Vehicle Disassembly

- a. Remove center trim panel.

1. Using hands or appropriate panel removal tool, carefully disengage the center trim panel (Fig. 1-2).

**NOTE:** Apply protective tape to any pry area(s).

2. Disconnect any connectors and remove.



Fig. 1-2

- b. Shift shifter lever to Neutral.

1. Remove shift lock cover, depress shift lock and shift into Neutral.

2. Unscrew shift knob (Fig. 1-3).



Fig. 1-3





c. Remove shifter bezel.

1. Using hands or appropriate panel removal tool, disengage and remove the shifter bezel (Fig. 1-4).

NOTE: Apply protective tape to any pry area(s).

2. Wrap the shift lever with appropriate protective cover.

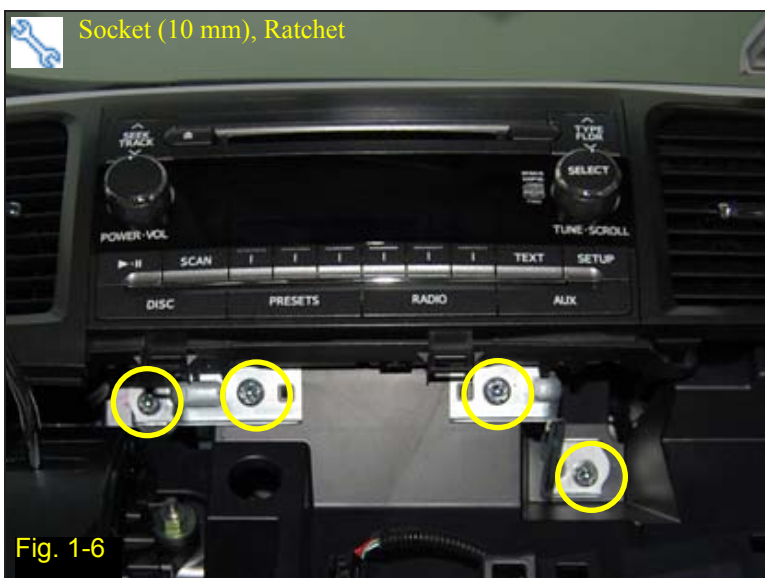


d. Remove HVAC assembly.

1. Using hands or appropriate panel removal tool, disengage the HVAC assembly (Fig. 1-5).

NOTE: Apply protective tape to any pry area(s).

2. Disconnect all connectors and remove.



e. Remove radio assembly.

1. Remove four (4) bolts securing the radio with a 10mm ratchet/socket (Fig. 1-6).



Fig. 1-7



2. Apply protective tape to the top left corner of the white strip connected to the radio assembly as well as the contact point on the dash (Insert Image).

3. Using hands, carefully disengage the radio (Fig. 1-7).



NOTE: Use a suitable protective support to prevent scratching of dash panels.

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

4. Disconnect all connectors and remove.

f. Remove information display monitor.

1. Using hands or appropriate panel removal tool, disengage and remove top center speaker cover (Fig. 1-8).

NOTE: Apply protective tape to any pry area(s).

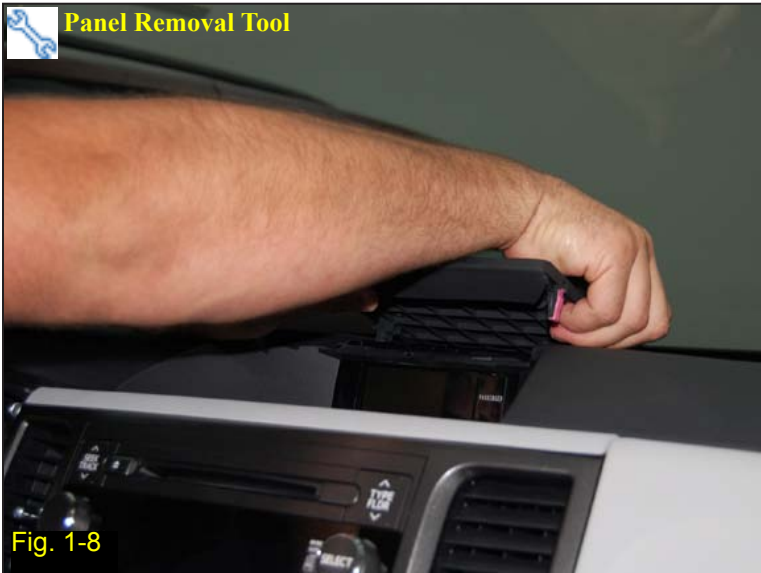


Fig. 1-8



Fig. 1-9

2. Remove two upper bolts using a 10mm ratchet/socket (Fig. 1-9).



3. Remove lower bolt using a 10mm ratchet/socket (Fig 1-10).
4. Disconnect all connectors and remove.



- g. Remove left switch panel.
  1. Using hands or appropriate panel removal tool, disengage left switch panel (Fig. 1-11).

NOTE: Apply protective tape to any pry location.

2. Disconnect all connectors and remove.



- h. Remove instrument cluster bezel.
  1. Using hands or appropriate panel removal tool, disengage the left side of the cluster bezel (Fig. 1-12).

NOTE: Apply protective tape to any pry location.





2. Using hands or appropriate panel removal tool, disengage the right side of the cluster bezel (Fig. 1-13).

NOTE: Apply protective tape to any pry location.



3. Using a nylon pry tool, remove the dust cap towards the rear of the upper steering column (Insert Image).
4. Using an appropriate panel removal tool, disengage four (4) lock tabs on the bottom of the dust cover (Fig. 1-14).

NOTE: Use the steering column's tilt and telescope features to get the proper access.

This is secured to the top of the steering column.

Apply protective tape to any pry location.



5. Disconnect all connectors and remove.
  - i. Remove driver side door sill (Fig. 1-15).
    1. Using hands or appropriate panel removal tool, disengage front clips at cowl kick panel.
    2. Disengage rear clips at 'B' pillar cover.
    3. Lift both front and rear guide pins and slide sill plate forward.

NOTE: Apply protective tape to any pry location.





j. Remove driver side kick panel.

1. Unscrew plastic lock nut with hands.
2. Using hands or appropriate panel tool, remove driver side kick panel (Fig. 1-16).

NOTE: Apply protective tape to any pry location.



k. Remove lower knee panel.

1. Remove bolt on lower left of knee panel with 10mm ratchet/socket (Fig. 1-17).



2. Remove bolt on lower right of knee panel with 10mm ratchet/socket (Fig. 1-18).



Fig. 1-19

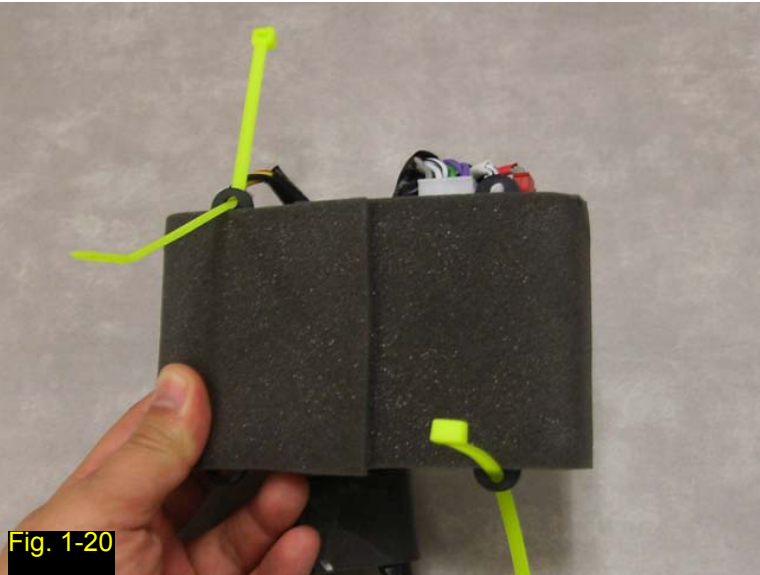


Fig. 1-20

 **Side Cutters**

3. Carefully disengage lower knee panel.
4. Disconnect all connectors, including hood and fuel releases and remove (Fig. 1-19).

### 3. Install Interface Module.

- a. Connect the main wire harness, microphone cable and switch extension cable to the interface module.

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

DO NOT remove the protective foam cover.

- b. Preload two wire ties to the interface module (Fig. 1-20).

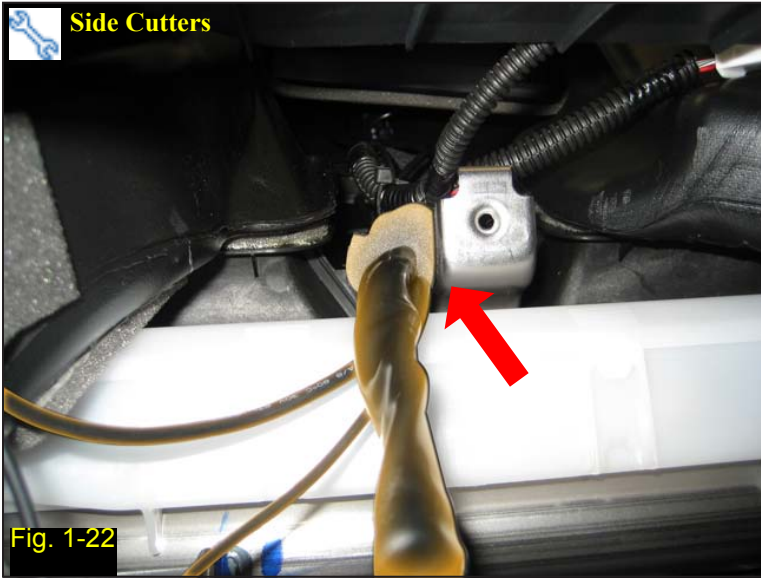
NOTE: BLU Logic wire ties in Figure 1-20 and the remainder of these instructions will be shown in yellow.

- c. Mount interface module.

1. With the module connections facing the front of the vehicle, wrap the harnesses back towards the rear of the vehicle.
2. Secure the module to the center speaker location with two (2) wire ties (speaker will not be present) as shown in Fig. 1-21.

3. Cut off excessive wire ties.

NOTE: Rollover image present.

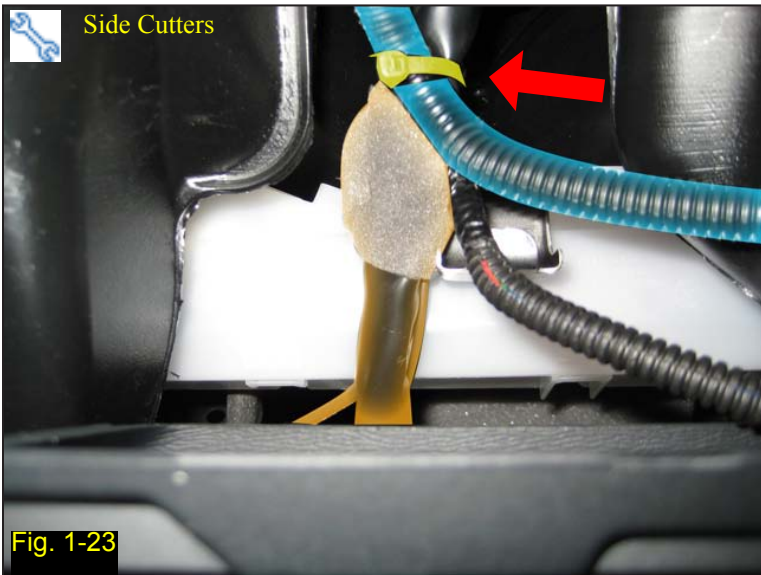


d. Route main wire harness.

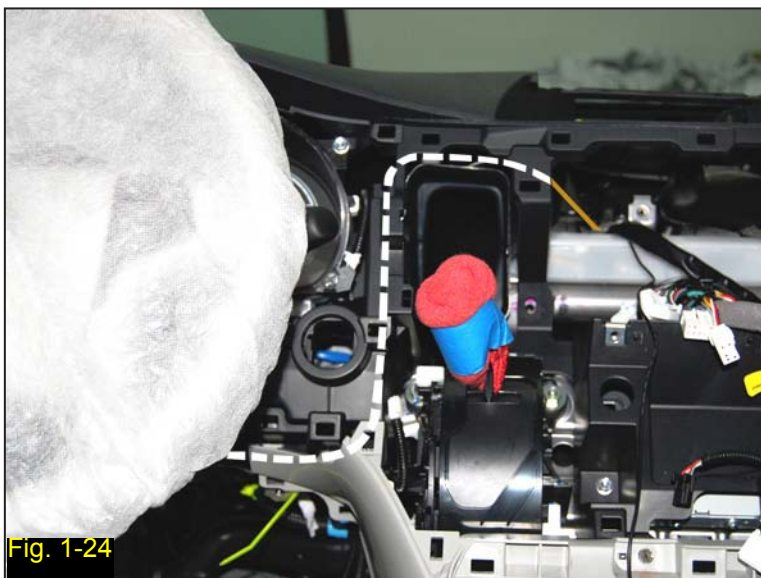
1. Route main wire harness (highlighted in orange) along with microphone cable and switch cable back towards the lower information display monitor mount (Fig. 1-22).
2. Wrap the harnesses with approximately 2-3 inches of the adhesive foam pad (Fig. 1-22).

NOTE: Foam pad is to prevent rattles to both the white cover and monitor bracket.

Location of the foam pad should be near the lower information display monitor mount pointed out by the red arrow.



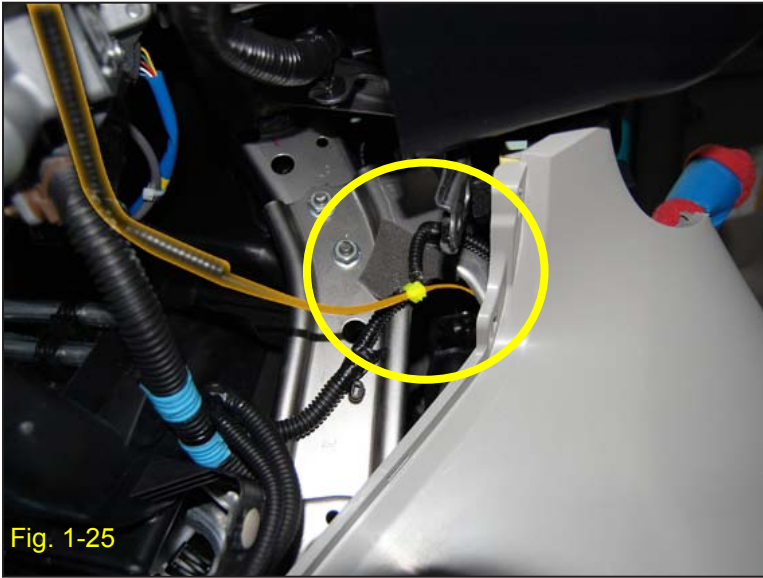
3. Secure the BLU Logic harnesses to the exiting wire loom highlighted in BLUE with a wire tie (Fig. 1-23).
4. Cut off excessive wire tie(s).



#### 4. BLU Logic Switch Installation

- a. Route BLU Logic Switch extension cable.
  1. Route switch extension cable (highlighted in orange) up and over the left center air vent and down towards the knee panel (Fig. 1-24).





2. Continue routing the switch extension cable over towards the left switch panel.
3. Apply the provided 1/4" wire split loom to the switch extension cable.
4. Use approximately 2-3 inches of adhesive foam pad to attach switch wire to the smooth portion of the metal bracket (Fig. 1-25).
5. Secure the switch extension cable to existing wire loom left of the metal bracket with a wire tie (Fig. 1-25).

 Ratchet/Socket 12mm

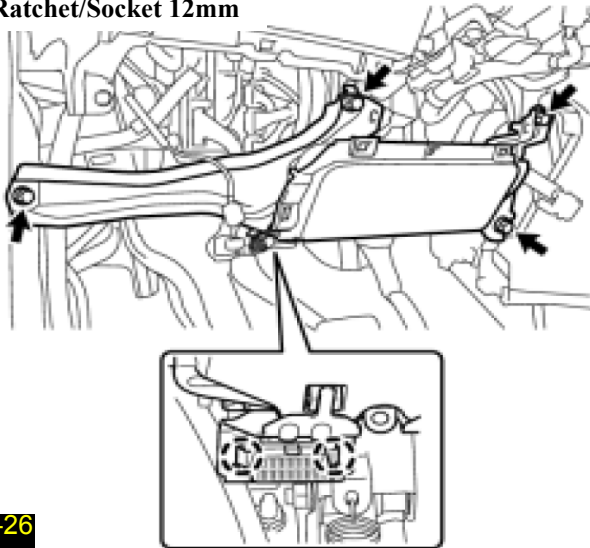



Fig. 1-26

NOTE: Removal of knee air bag assembly is not required but can be done to allow more access for routing of the wire harness.

6. Remove four (4) bolts using a 12mm ratchet/socket and carefully rest it on an appropriate protective cover/support (Fig 26).
7. Disengage the 2 claws and carefully remove the airbag assembly and rest it on an appropriate support assembly.

 NOTE: Use extreme caution when removing knee air bag assembly as edge are very sharp.

DO NOT disconnect air bag assembly

DO NOT put too much tension on the Yellow ABS cable.

8. Use another wire tie to secure the switch extension cable to the OE steering wheel control harness (Fig. 1-27).

NOTE: Knee air bag was not removed during this installation process.

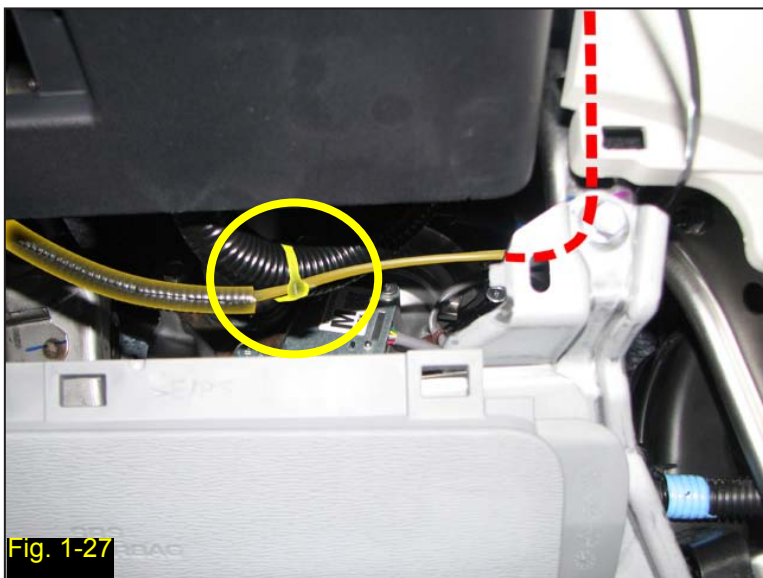
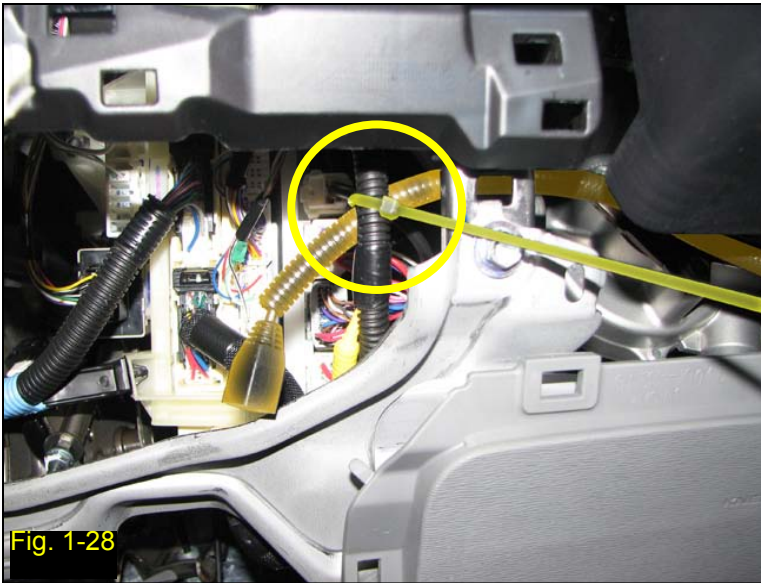


Fig. 1-27





9. Finally, use one more wire to secure the switch extension cable to the black OE wire harness left of the knee airbag mount (Fig. 1-28). Cut off excessive wire ties.



**NOTE:** DO NOT attach to the yellow wire harness.



**CAUTION:** Operate the steering wheel's tilt and telescope functions to ensure the switch cable does not interfere with the movement of the steering column.

## 5. Microphone Installation

- a. Route the microphone (highlighted in orange).

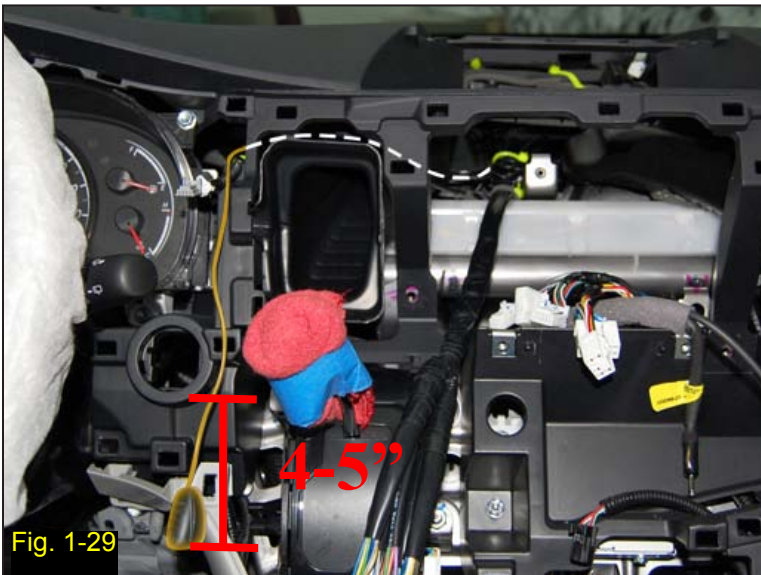
1. Route the microphone over and around the left center air vent.
2. Leave approximately 4-5" of slack (from the tip of the microphone to the bottom of the circle in the black plastic panel. Fig. 1-29).

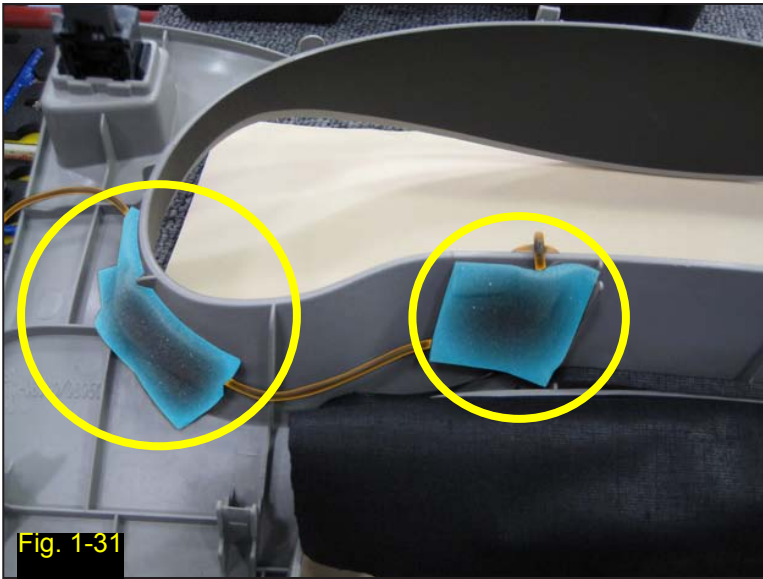
- b. Mount the microphone.

1. Clean the mounting location with VDC approved cleaner.
2. Mount the microphone approximately between the center of the Cruise Control icon and the 110 mark (Fig. 1-30).

**NOTE:** Position edge of microphone directly above support ridge on bottom of bezel as shown (Insert Image).

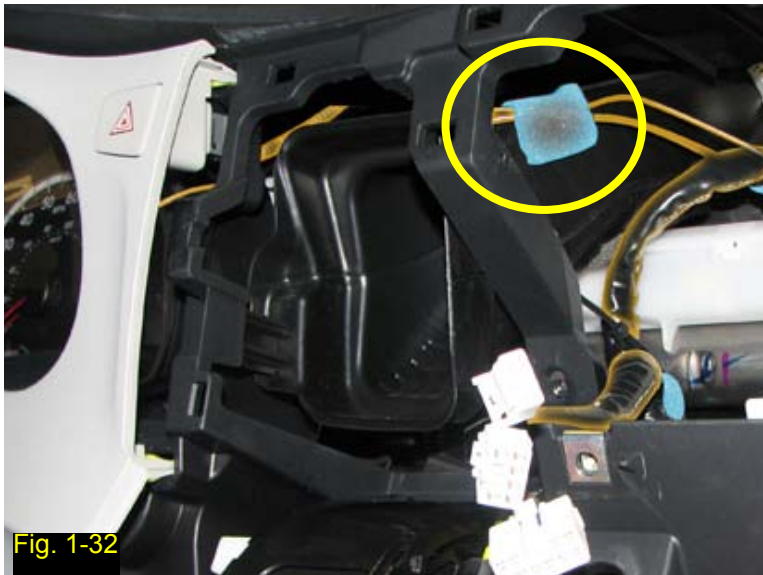
3. Position the microphone towards the rear of the bezel to minimize the amount of exposed wire visible to the customer. 0-8mm of exposed wire is acceptable (Fig. 1-30).





NOTE: Lights in Fig. 1-30 are on ONLY to clearly show Cruise Control icon. Icon is visible without the light being on. Make sure not to block cruise control with microphone.

4. Use approximately 1" of adhesive foam pad to secure the microphone wire to the bottom of the bezel (Fig. 1-31)
5. Use another 1-2" of adhesive foam pad to hold the microphone wire to the left of the bezel as shown in figure 1-31.
6. Reinstall instrument bezel.
7. Using 1-2" of adhesive foam pad, secure the microphone and switch cables to the air vent plenum to prevent rattles (Fig. 1-32).
8. Reinstall the information display monitor.

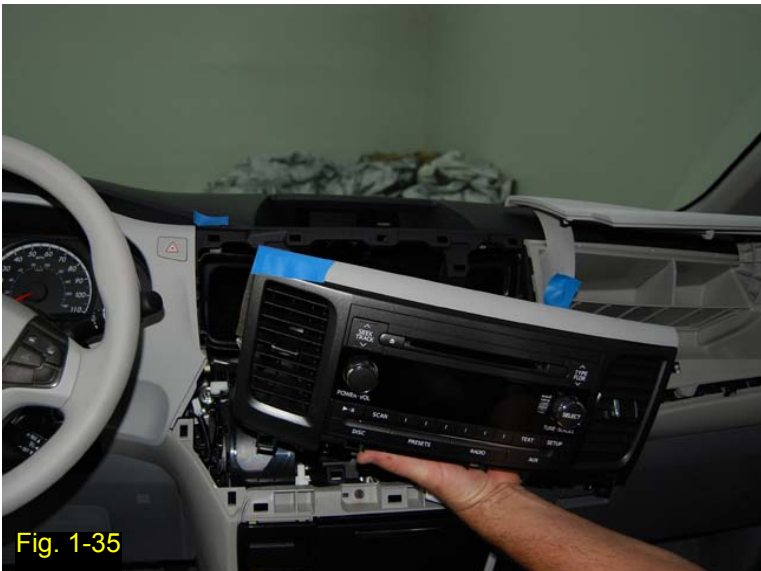
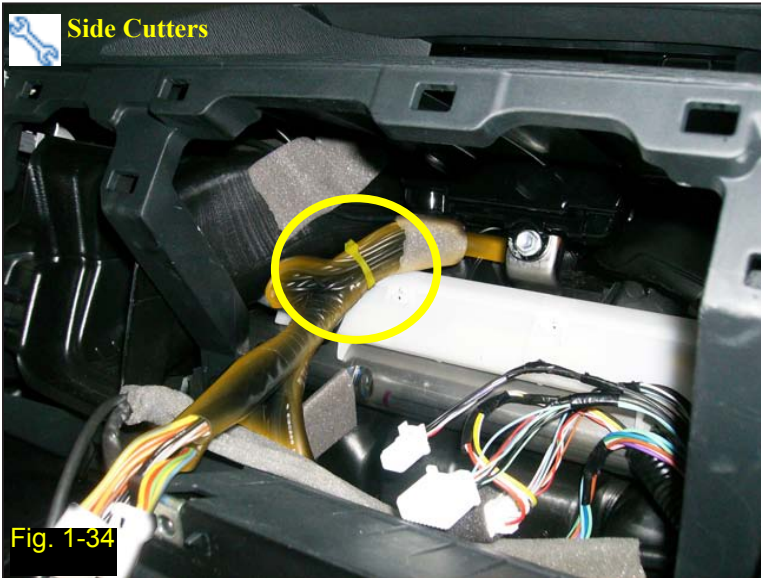


c. Secure main wire harness.

1. Apply 2-3 inches of adhesive foam pad to the support bar brace (Fig. 1-33).







2. Connect the main power harness (highlighted in orange) to the matching vehicle's radio harness.
3. Position the harnesses over towards the far left.
4. Bundle the excess main and microphone wire harnesses and secure with a wire tie (Fig. 1-34).
- d. Reinstall the radio (Fig. 1-35).



**NOTE:** Keep harness away from mounting brackets during re-assembly of head unit's lower mounts.

1. Connect the main power harness 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 the 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.

- e. Reinstall the HVAC assembly.
- f. Reinstall shifter bezel, center trim bezel, top center speaker bezel and shift knob.
- g. Mount BLU Logic Switch.

1. Remove center blank knock-out by disengaging lock tabs.

**NOTE:** Use next available blank knock-out if center knock-out is occupied.

2. Insert BLU Logic switch with the solid arrow pointed up (Fig. 1-36).
3. Connect to switch extension cable.



Fig. 1-37



Fig. 1-38

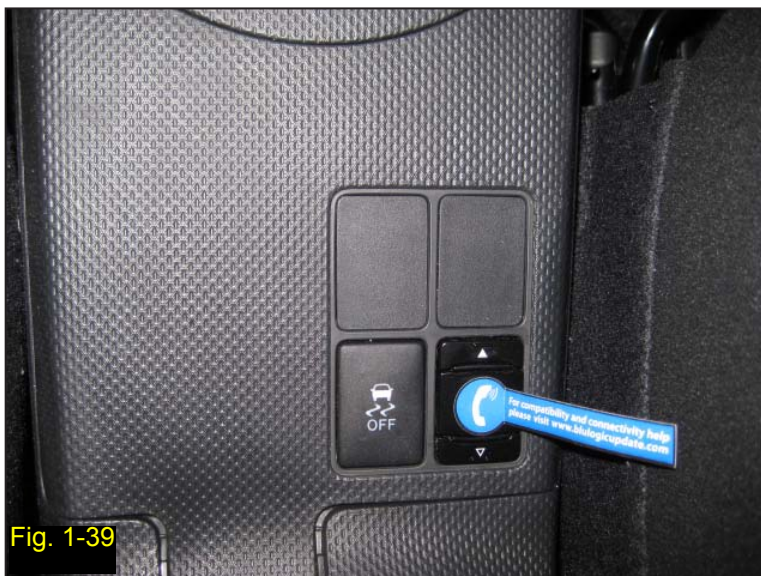


Fig. 1-39

- h. Reinstall left switch panel (Fig. 1-37).
- i. Reinstall the knee air bag assembly if removed for installation.



- 1. Torque four (4) mounting bolts using a 10mm ratchet/socket to 7.4 ft-lb (10 N.m).

- j. Reinstall lower knee panel.
- k. Reinstall driver side kick panel.
- l. Reinstall driver side door sill.



- m. Position negative battery terminal at the original factory position (tighten the nut to 36 in-lb (4.07 N.m)).



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

- n. Remove protective tape from the fuel door.
- o. Put the owner's manual in the glove box.

## 6. Apply BLU Logic decal to BLU Logic switch.

(Only kits manufactured on or after the date code on the front page will include the BLU Logic decal).

- a. Remove the protective backing on the round portion of the BLU Logic sticker (Fig. 1-38).
- b. Apply it to the center of the switch so that the sticker hangs towards the right as shown in Fig. 1-39.

**NOTE:** Photo shown may not match the switch installation location for this vehicle and is for illustrative purposes.



**TOYOTA SIENNA 2011 - HANDS FREE BLU LOGIC**  
**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.
<input type="checkbox"/>	3 Button Switch	Cover the 3 Button Switch with your hand(s) to verify that all three lights on the switch illuminate.

**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"/>	Hood Release Cable	<input type="checkbox"/>	Verify the proper operation of the hood release cable.
<input type="checkbox"/>	Fuel Door Release Cable	<input type="checkbox"/>	Verify the proper operation of the fuel door release cable.
<input type="checkbox"/>	Rear Defrost Switch	<input type="checkbox"/>	Verify the proper operation of the rear defrost switch.
<input type="checkbox"/>	Mirror Control	<input type="checkbox"/>	Verify the proper operation of the mirror control switch.
<input type="checkbox"/>	VSC (if equipped)	<input type="checkbox"/>	Verify the proper operation of the VSC switch.
<input type="checkbox"/>	Interior Light 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"/>	Rear Vent Switch	<input type="checkbox"/>	Verify the proper operation of the rear vent switch.
<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. 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>
<input type="checkbox"/>	Sliding Door Switch	<input type="checkbox"/>	Verify the proper operation of the sliding door switch.

**TOYOTA                      SIENNA                      2011 -                      HANDS FREE BLU LOGIC**  
**CHECKLIST – these points MUST be checked to ensure a quality installation.**

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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 information display monitor. To replace, follow Step 1-10 to access the fuse location. NOTE: If the fuse is blown, the Hands Free BLU Logic will not turn on.