

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	Security System
2	RSE
3	BLU Logic
4	iPod Interface


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, 12mm
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

Table of Contents

I. Preparation	1-2
1. Table Of Contents.....	2
2. Content Location.....	3
II. Procedure.....	4-17
1. Vehicle Preparation.....	4
2. Vehicle Disassembly.....	4
3. Interface Module Installation.....	7
4. Microphone Installation.....	8
5. BLU Logic Switch Installation - Option I	10
6. BLU Logic Switch Installation - Option II.....	12
7. BLU Logic Switch Installation - Option III.....	13
8. Finalize Installation.....	17
9. Apply BLU Logic Decal to Switch.....	18
III. Checklist	19-20
1. Accessory Function Checks.....	19
2. Vehicle Function Checks.....	19-20

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.

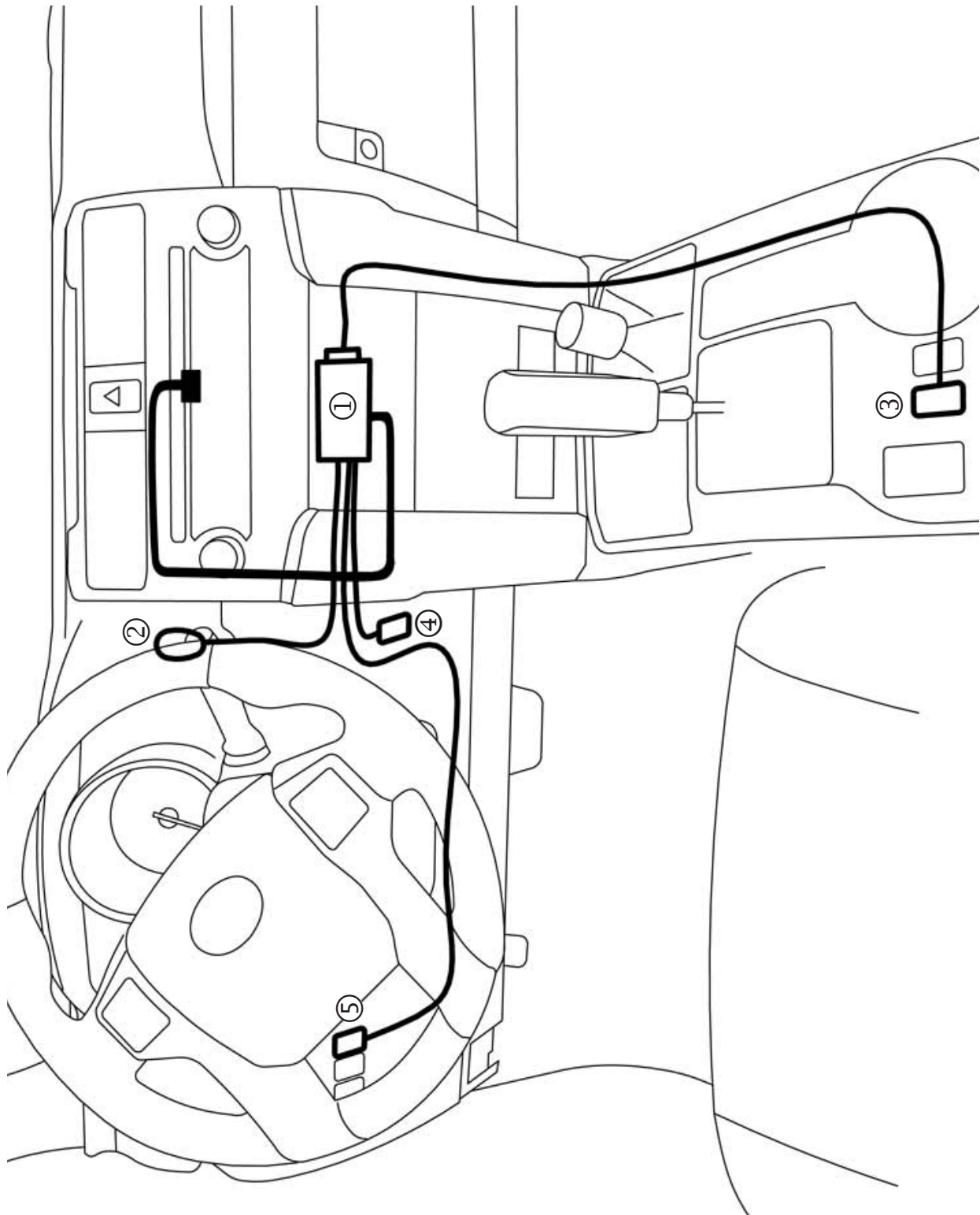
These guidelines can be found in the “Accessory Installation Practices” document.

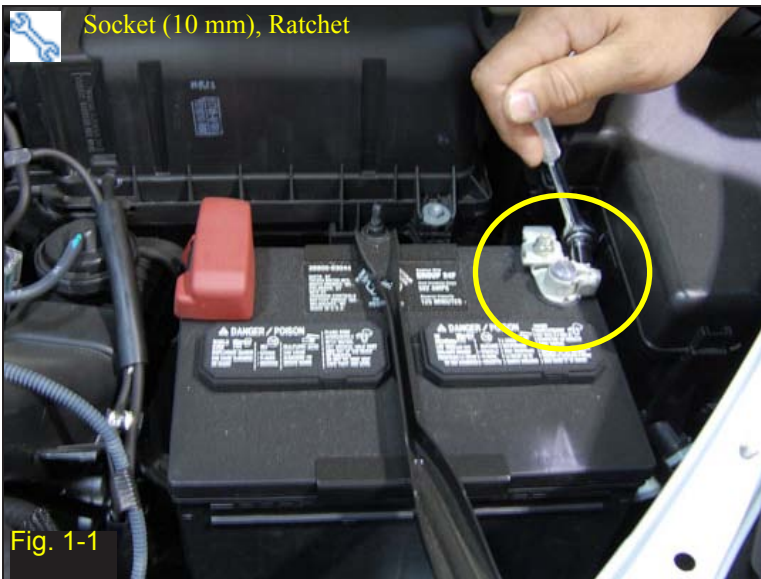
This document covers such items as:

- 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
5	BLU Logic Switch Location - Option III





1. Vehicle Preparation (Fig. 1-1)



- Apply parking brake.
- Protect fender before starting.
- Remove the negative (–) battery cable.



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

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

2. Vehicle Disassembly

- Remove shifter assembly bezel.



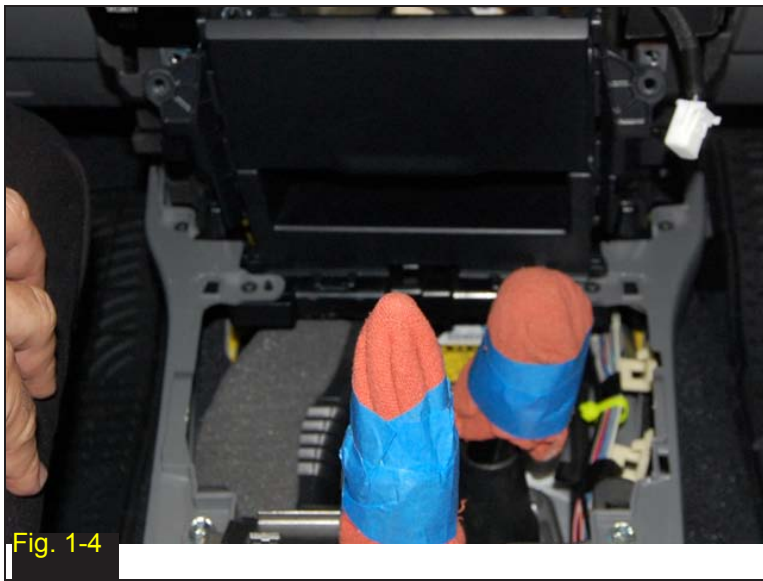
- Unscrew AWD selector knob (Fig. 1-2).
- Remove shift lock cover with appropriate tool and put shifter level in “Neutral”.
- Unscrew shifter knob.



- Using hands or appropriate panel removal tool, disengage the shifter bezel. (Fig. 1-3).

NOTE: Apply protective tape to any pry area.

- Lift up the right side of the shifter bezel and unplug the white Rear Window Switch harness located on the right center of the shifter bezel (Fig. 1-3).
- Remove shifter bezel and set aside.



7. Cover both shift levers with appropriate protective wrap (Fig. 1-4).



- b. Remove HVAC assembly.

1. Using hands or appropriate panel removal tool, remove left trim garnish (Fig. 1-5).

NOTE: Apply protective tape to any pry area.

2. Disconnect any connectors and set aside.



3. Using hands or appropriate panel removal tool, remove right trim garnish (Fig. 1-6).

NOTE: Apply protective tape to any pry area.

4. Disconnect any connectors and set aside.



5. Using hands or appropriate panel removal tool, gently pull out the HAVC assembly (Fig. 1-7).

NOTE: Apply protective tape to any pry location.

6. Disconnect any connectors and remove.



- c. Remove the radio assembly.

1. Remove four (4) bolts securing the radio with a 10mm ratchet/socket (Fig. 1-8).

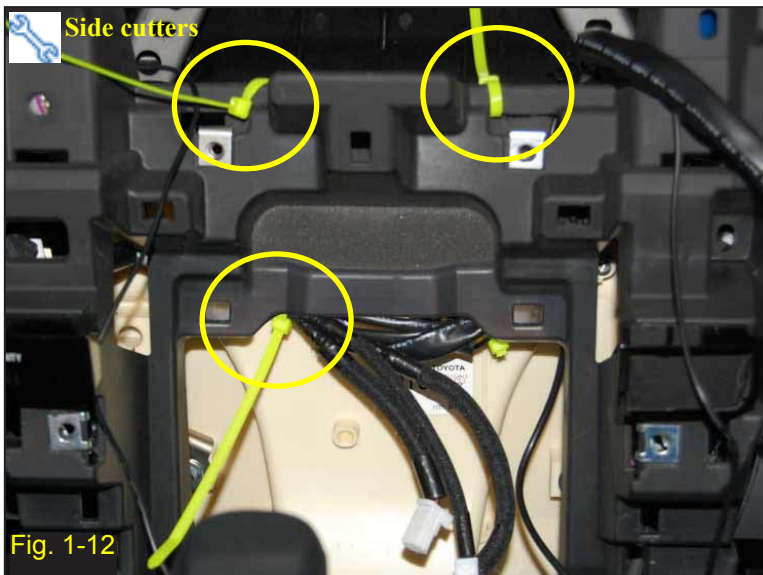
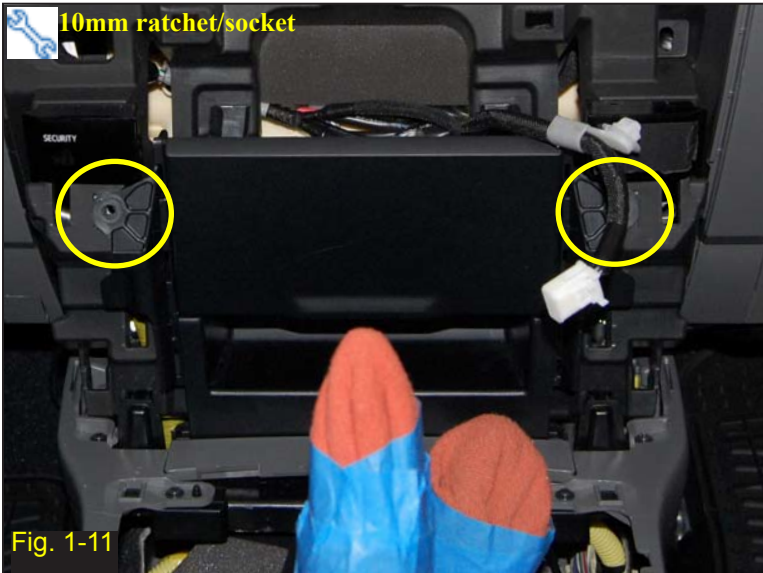
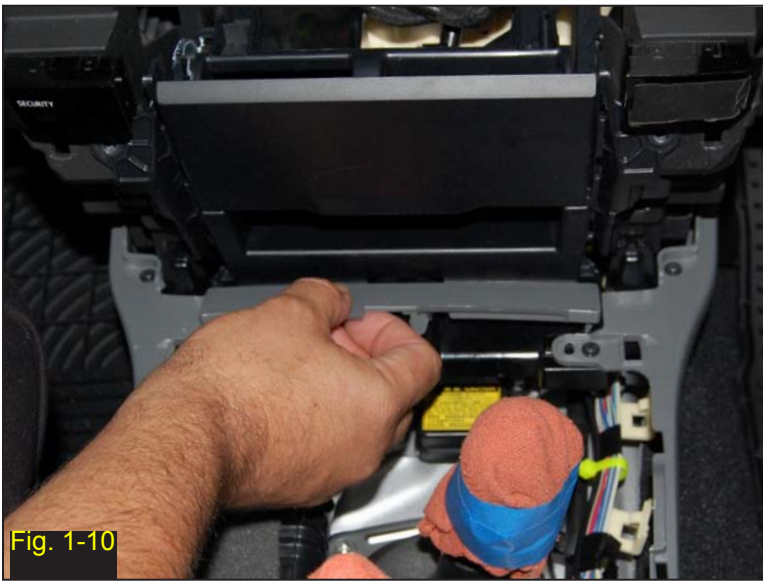


2. Using hands, carefully pull out the radio assembly (Fig. 1-9).
3. Remove the harness support with appropriate tool (Fig 1-9).
4. Disconnect all connectors and set aside.



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.



3. Interface Module Installation

a. Mount interface module.

1. Using hands, remove lower center trim garnish (Fig. 1-10).

2. Remove two (2) bolts securing lower storage pocket using a 10mm ratchet/socket (Fig. 1-11).

3. Using hands, disengage lower storage pocket.

4. Disconnect any connectors and remove.

5. Connect main harness to interface module.

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

DO NOT remove the protective foam cover.

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

6. Use two (2) wire ties to loosely secure the interface module to cross brace. One (1) to the upper right corner, one (1) to the upper left corner (Fig. 1-12).

NOTE: Wire ties used to secure the interface module will be tightened in step 8.

7. Use another wire tie to secure the lower left of the module to the existing wire harnesses (Fig. 1-12).



4. Microphone Installation

- a. Remove panel right of steering column.
 1. Using hands or appropriate panel removal tool, disengage the panel right of the steering column (Fig. 1-13).

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

- b. Remove right upper switch panel.

NOTE: Pull back weather stripping if needed to access upper switch panel.

1. Using hands or appropriate panel removal tool, disengage clips (Fig. 1-14).

NOTE: Apply protective tape to any pry area.

2. Disconnect all connectors and remove.

- c. Disengage the instrument cluster bezel.

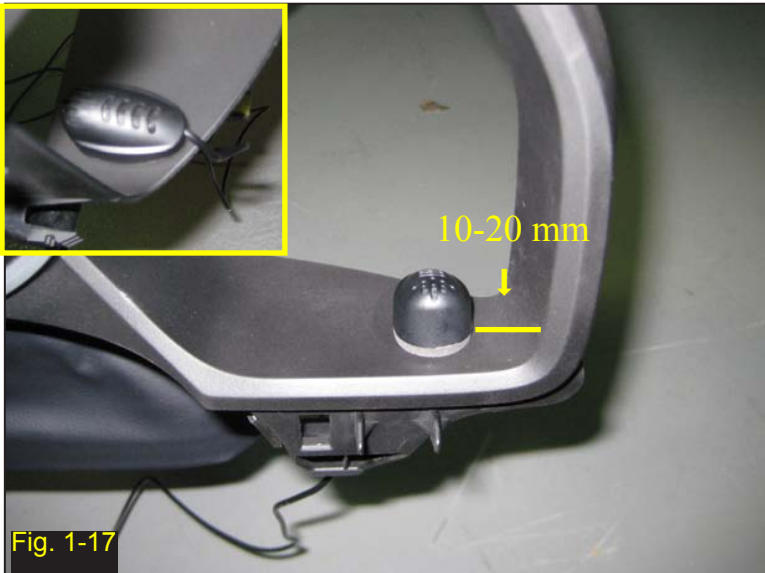
1. Using hands, gently pull out bezel to release locking clips (Fig. 1-15).

NOTE: Removal of bezel is not required. Installer can loosen bezel to clear microphone for mounting.



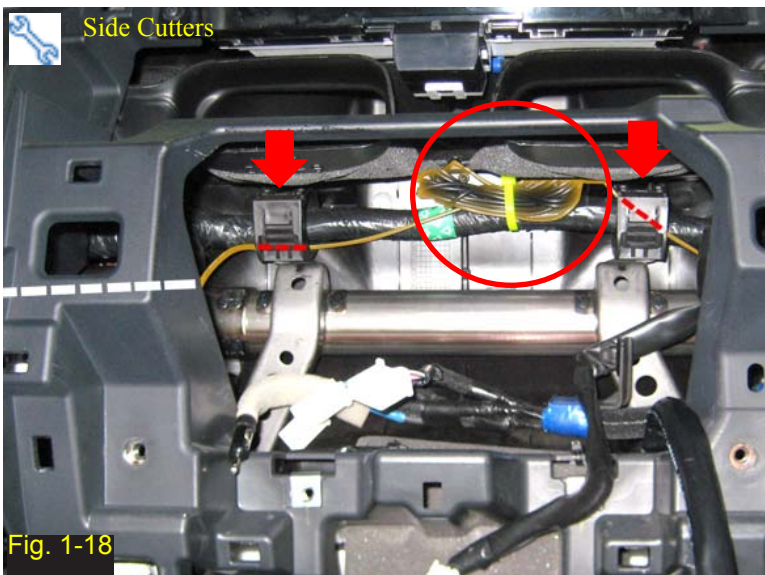


- d. Route microphone (highlighted in orange).
- 1. Route microphone end behind radio opening towards the instrument cluster (Fig. 1-16).

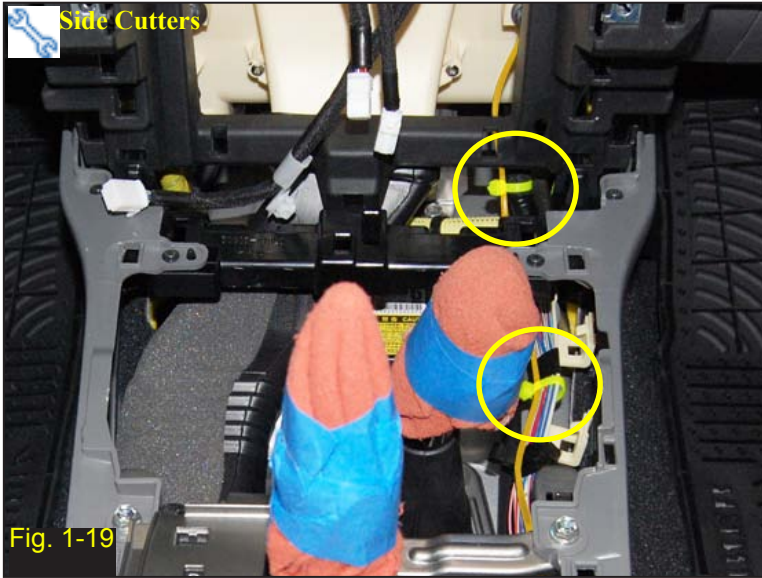


- e. Mount the microphone.
- 1. Clean the mounting location with VDC approved cleaner.
- 2. Mount the microphone approximately 10-20 mm left of the bezel wall (Fig. 1-17).

NOTE: Minimize the amount of exposed wire visible to the customer, 0-8mm of exposed wire is acceptable.



- 3. Reinstall instrument bezel.
- 4. Route microphone cable through both plastic harness supports marked by the red arrows.
- 5. Connect microphone to interface module.
- 6. Bundle excess microphone wire and wire tie to vehicle harness above support bar (Fig. 1-18).



5. BLU Logic Switch Installation - Option I

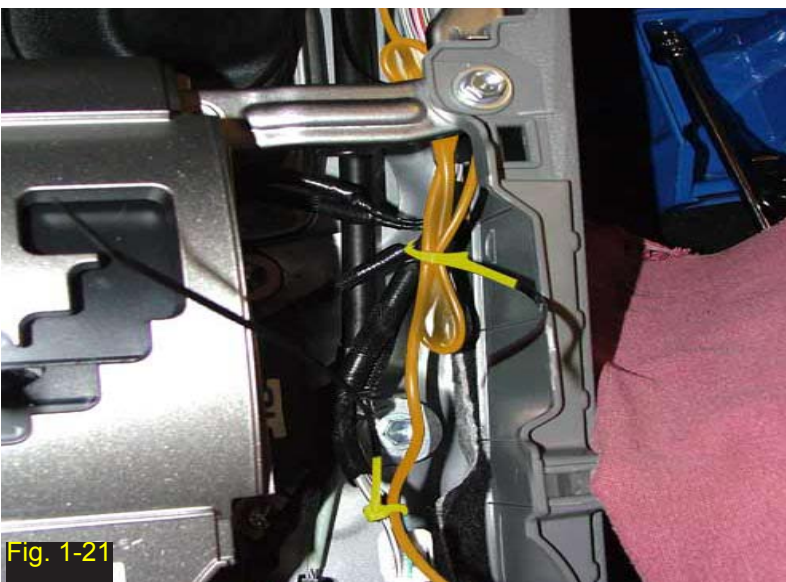
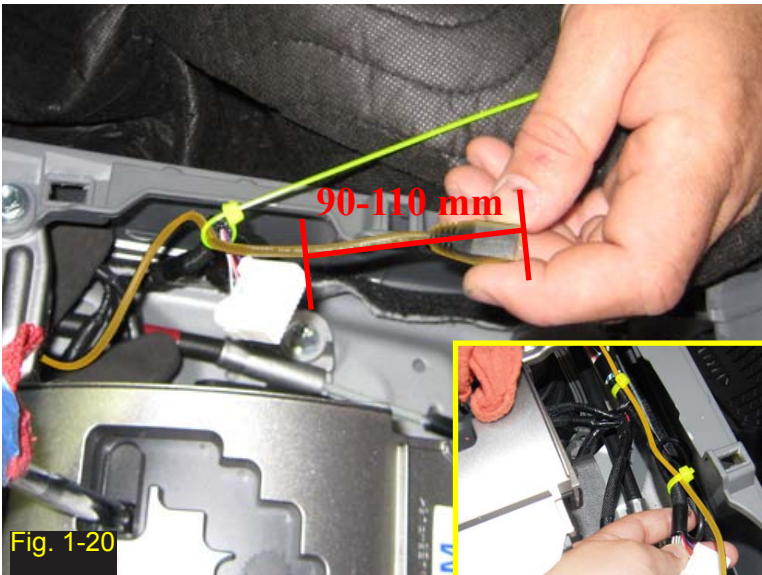


NOTE: Check to see if there is an open knock-out available on the shifter bezel.

If blank knock-out is present, continue with Step #5.

If blank knock-out is not present, skip to Step #6.

- a. Route BLU Logic switch wire (highlighted in orange, Fig. 1-19).
 1. Connect switch wire to interface module.
 2. Continue routing the switch cable behind cross braces following the existing wire looms.
 3. Using two (2) wire ties and loosely secure switch wire to existing wire looms (Fig 1-19).
 4. Continue routing the switch wire back towards the armrest.
 5. Leave a 90-110mm pig tail from the Rear Window Switch connector (Fig. 1-20).
 6. Use two (2) additional wire ties to secure the switch wire to the existing wire loom (Fig. 1-20 - Inset Image).
 7. Bundle any excess slack from the switch cable and secure with a wire tie. Remove any excess wire tie (Fig. 1-21).





b. Mount BLU Logic Switch (highlighted in orange).

1. Remove left blank knock-out on the shifter bezel and insert BLU Logic switch.

NOTE: If left blank knock-out is occupied use right blank knock-out.

2. Mount switch with solid arrow pointing forward.
3. Using two (2) wire ties, secure switch to right and left white wire harness support as shown in Fig. 1-22.



- c. Reinstall lower storage compartment.
- d. Reinstall lower center trim garnish.
- e. Reinstall shifter bezel.

1. Connect BLU Logic switch to pig tail from step 5.a.6.
2. Reconnect Rear Window Switch connector (Fig. 1-23)



3. Secure BLU Logic switch cable to Rear Window Switch wire loom as shown in Fig. 1-24.



4. Reinstall shifter bezel (Fig. 1-25).
5. Proceed to Step #8.



6. BLU Logic Switch Installation - Option II



NOTE: Skip if switch Option I was used.

Check to see if there is an open knock-out on the panel right of the steering column.



If blank knock-out is present, continue with Step #6.

If blank knock-out is not present, skip to Step #7.

a. Route BLU Logic switch wire (highlighted in orange).

1. Connect BLU Logic switch wire to the interface module.
2. Route switch wire behind radio brace over towards panel right of steering column (Fig. 1-26).

b. Mount BLU Logic switch.

1. Remove blank knock-out from panel right of the steering column.
2. Mount BLU Logic switch so that solid white arrow is pointing up (Fig. 1-27).
3. Connect BLU Logic switch to switch wire.
4. Reinstall panel right of the steering column (Fig. 1-27 - Inset Image).





5. Remove the slack from the BLU Logic switch wire and secure to the left support bar brace with approximately 40-60mm of adhesive foam pad (Fig. 1-28).
6. Bundle the excess switch wire and secure with approximately 40-60mm of adhesive foam pads to the right support bar brace (Fig. 1-28).
7. Proceed to Step #8.



7. BLU Logic Switch Location -Option III

NOTE: Skip if switch Option I or II was used.

Check to see if there is an open knock-out on the left lower switch panel.

If blank knock-out is present, continue with Step #7.

- a. Remove lower switch panel.
 1. Using hands or a panel removal tool, remove driver side doorsill (Fig. 1-29).
 2. Using hands or appropriate removal tool, remove plastic retaining plug.
 3. Remove driver side kick panel using hands or appropriate panel removal tool (Fig. 1-30).





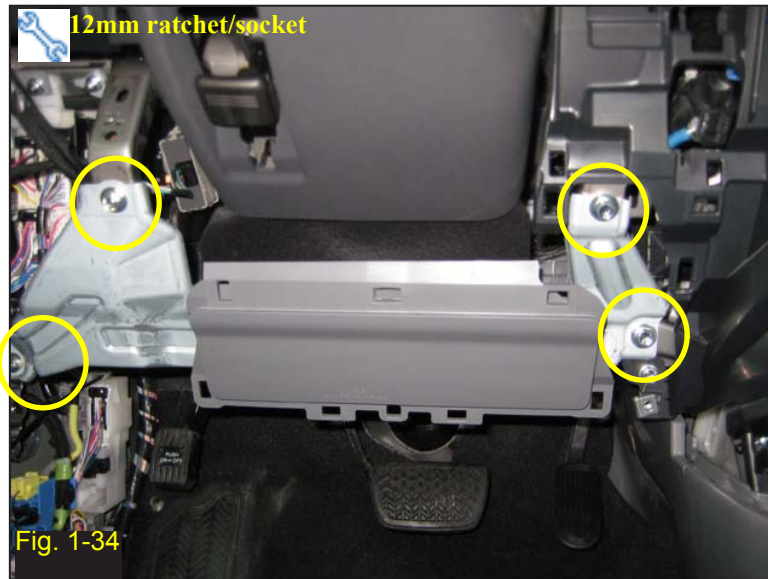
4. Remove lower left bolt using a 10mm ratchet/socket (Fig. 1-31).



5. Remove lower right bolt using a 10mm ratchet/socket (Fig. 1-32).



6. Using hands, carefully disengage the lower switch/knee panel (Fig. 1-33).
7. Disconnect all connects and remove.

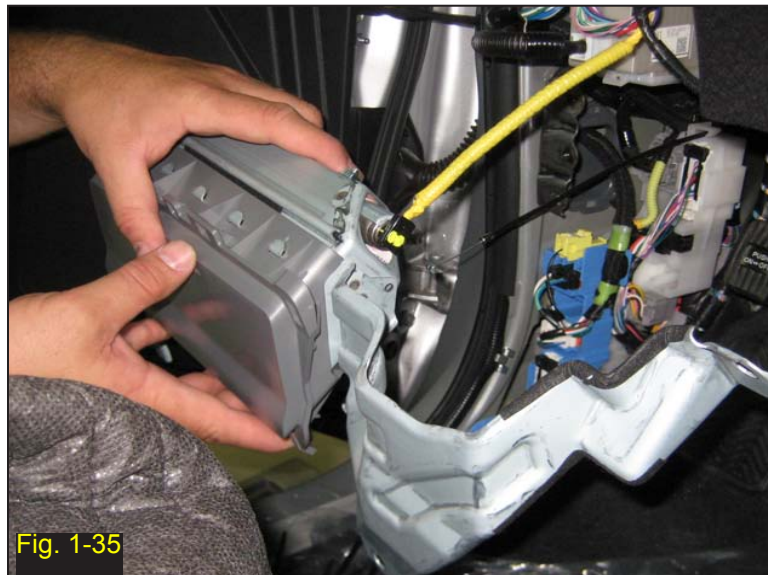


b. Remove knee air bag assembly.

1. Remove four (4) bolts using a 12mm ratchet/socket (Fig. 1-34).



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

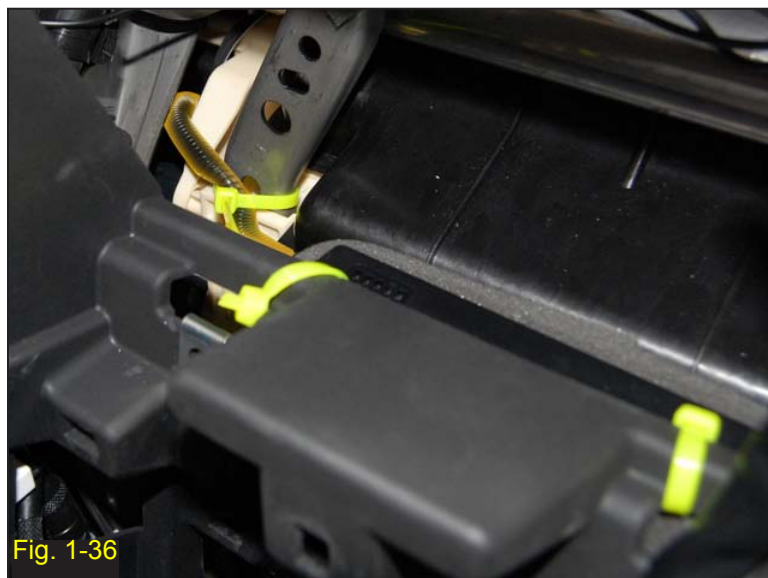


2. Carefully remove the air bag assembly and rest it on an appropriate protective cover/support (Fig. 1-35).



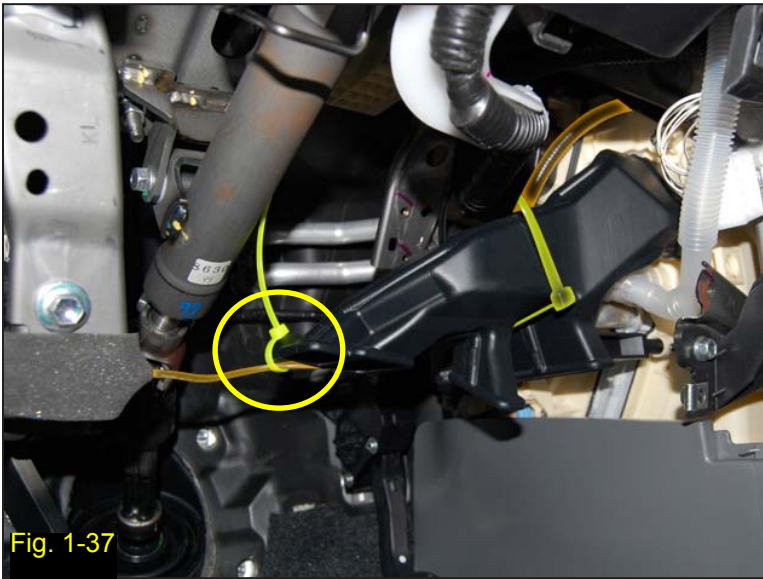
NOTE: DO NOT disconnect air bag assembly.

Do not put too much tension on the Yellow ABS cable.

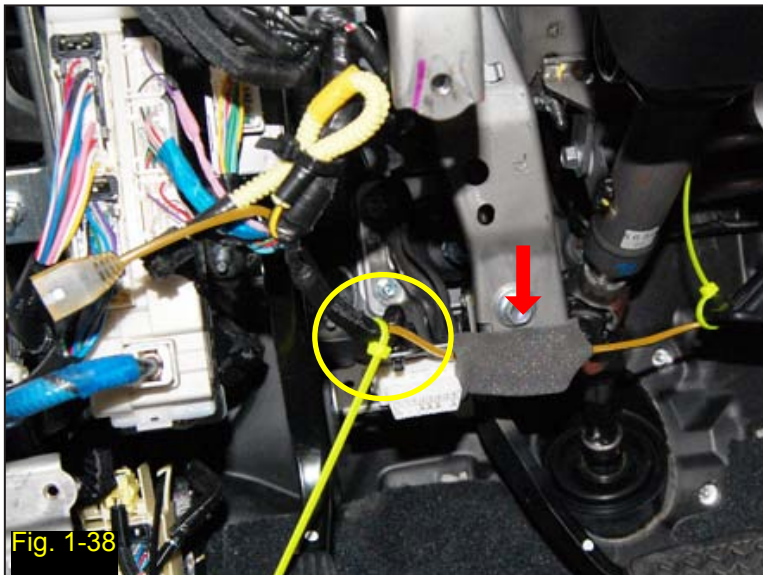


c. Route switch wire.

1. Apply 33cm of split wire loom to the switch wire and secure with tape (interface module side).
2. Route the switch wire under the interface module, in-between the two metal braces.
3. Remove slack from module side and secure switch wire to left support bar brace (Fig 1-36).



4. Continue down towards the air vent and over towards the left switch panel.
5. Remove most of the slack and secure the switch wire around the air vent (Fig. 1-37).
6. Using another wire tie, secure the wire around the air vent mounting bracket circled in the image (Fig. 1-37).



7. Use one more wire tie to secure the switch wire to the wire loom above the OBD plug (Fig. 1-38).
 8. Using 40-60mm of adhesive foam pad, secure the switch wire to the crash plate mounting brace (Fig. 1-38).
- d. Reinstall knee air bag assembly.



1. Torque four (4) mounting bolts using a 10mm ratchet/socket to 10 Nm.

e. Mount BLU Logic Switch.

1. Mount BLU Logic switch to the lower blank knock-out with the solid white arrow pointing up (Fig. 1-39).

2. Connect switch to switch wire.

NOTE: If blank knock-out is occupied, skip to step c.3.





Fig. 1-40

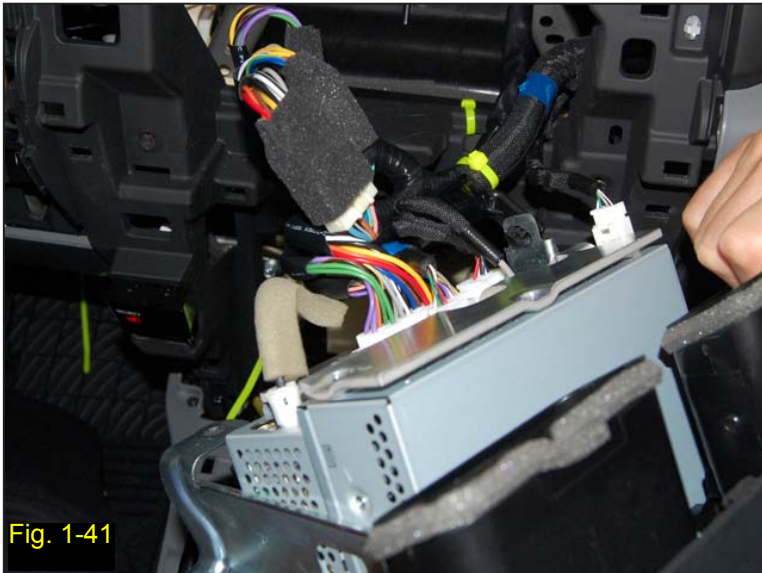


Fig. 1-41

3. Mount BLU Logic switch to upper most left blank knock-out with solid white arrow pointing up (Fig. 1-40).

4. Connect switch to switch wire.

NOTE: If upper most left blank knock-out is occupied, use next available knock-out.

5. Reinstall lower switch panel, kick panel and doorsill.

6. Proceed to Step #8.

8. Finalize the Installation.

- Connect the main power harness to the matching vehicle's radio harness.
- Bundle excess power harness and secure it to vehicle's radio harness.
- Connect main power harness to vehicle's matching radio connections as needed.
- Tighten module wire ties and remove any excess wire ties.



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

- Connect any other harnesses to the radio and reinstall radio (Fig. 1-41).

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

- Reinstall HVAC assembly
- Reinstall left switch panel.
- Reinstall panel right of the steering wheel (Skip if switch Option II was used).
- Reinstall right and left panel garnishes.
- Position negative battery terminal at the original factory position (tighten the nut to 36 in-lbs (4.07 N.m)).



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

- Place owner's manual in the glove box.



9. 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. 1-42).

- b. Apply it to the center of the switch so that the sticker hangs towards the right as shown in Fig. 1-43.

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



TOYOTA 4 RUNNER 2010 - 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"/>	Rear Window Switch	<input type="checkbox"/>	Verify the proper operation of the rear window 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"/>	Security Indicator	<input type="checkbox"/>	Verify the proper operation of the security indicator.
<input type="checkbox"/>	Intuitive Park Assist Indicator & Switch (if equipped)	<input type="checkbox"/>	Verify the proper operation of the intuitive park assist indicator & switch.
<input type="checkbox"/>	Seat Heaters	<input type="checkbox"/>	Verify the proper operation of the seat heaters.
<input type="checkbox"/>	Auxiliary Input	<input type="checkbox"/>	Verify the proper operation of the Auxiliary Input.
<input type="checkbox"/>	Power Output & Auxiliary Power Output	<input type="checkbox"/>	Verify the proper operation of the power output & auxiliary power output.
<input type="checkbox"/>	Windshield Wiper Deicer	<input type="checkbox"/>	Verify the proper operation of the windshield wiper deicer.
<input type="checkbox"/>	RSCA	<input type="checkbox"/>	Verify the proper operation of the RSCA switch.

TOYOTA 4 RUNNER 2010 - HANDS FREE BLU LOGIC
CHECKLIST – these points MUST be checked to ensure a quality installation.

<input type="checkbox"/>	4 Wheel Drive Control Switch	<input type="checkbox"/>	Verify the proper operation of the 4 wheel drive control switch.
<input type="checkbox"/>	Party Mode (if equipped)	<input type="checkbox"/>	Verify the proper operation of the party mode switch.
<input type="checkbox"/>	NAV System (if equipped)	<input type="checkbox"/>	Confirm navigation operation by AVN diagnostics.
<input type="checkbox"/>	Dash Illumination Dimmer	<input type="checkbox"/>	Verify the proper operation of the interior light dimmer 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"/>	<p><i>Prior to TPMS activation and Pre- delivery Service (PDS) of the Vehicle the TPMS light will blink when IG is turned on.</i></p> <p><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></p>

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	<p>The fuse is located behind the glove box assembly. To replace, follow Step 1-11 to access the fuse location.</p> <p>NOTE: If the fuse is blown, the Hands Free BLU Logic will not turn on.</p>