

Preparation

Part Number: PT545-00082

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

Kit Contents

Item #	Quantity Reqd.	Description
1	1	Unit Assembly Kit
2	1	Mounting Kit
3	1	Hardware Bags
4	1	Unit and Fit Kit List
5	1	Owner's Manual

Unit Assembly Kit Contents

Item #	Quantity Reqd.	Description
1	1	Interface Kit

Mounting Kit Contents

Item #	Quantity Reqd.	Description
1	1	iPod Cable
2	1	Grommet

Hardware Bag Contents

Item #	Quantity Reqd.	Description
1	1	Foam Sleeve
2	4	2x4 inch Adhesive Protective Foam
3	4	14 inch Lock Tie
4	2	6 inch Lock Tie

Conflicts

Satellite Radio Receiver

Requirement

SAT Ready Head Unit

Recommended Tools

Personal & Vehicle Protection	Notes
Safety Goggles	
Seat Covers	
Special Tools	Notes
iPod Checker	IADS# AVA08-038-01
Panel Clip Remover	SST# 00002-06001-01
Sockets	10 mm, 8 mm
Torque Wrench	4.1 N-m (36 in-lbf) (Battery Cable) 10 N-m (7 ft-lbf)
Hole Saw	1 1/8 inch (29 mm)
De-burring Tool	
Installation Tools	Notes
Tape Measure/Ruler	Metric/Standard
Side Cutters	
Masking Tape	
Special Chemicals	Notes
Cleaner	VDC Approved Cleaner

General Applicability

Note:-

Recommended Sequence of Application


Item #	Accessory
1	Security System
2	RES
3	EC Rearview Mirror
4	iPod Interface
5	Bluetooth Hands Free


*Mandatory


Vehicle Service Parts (may be required for reassembly)


Item #	Quantity Reqd.	Description
1		
2		
3		


Legend


 **STOP:** Damage to the vehicle may occur. Do not proceed until process has been complied with.

 **OPERATOR SAFETY:** Use caution to avoid risk of injury.

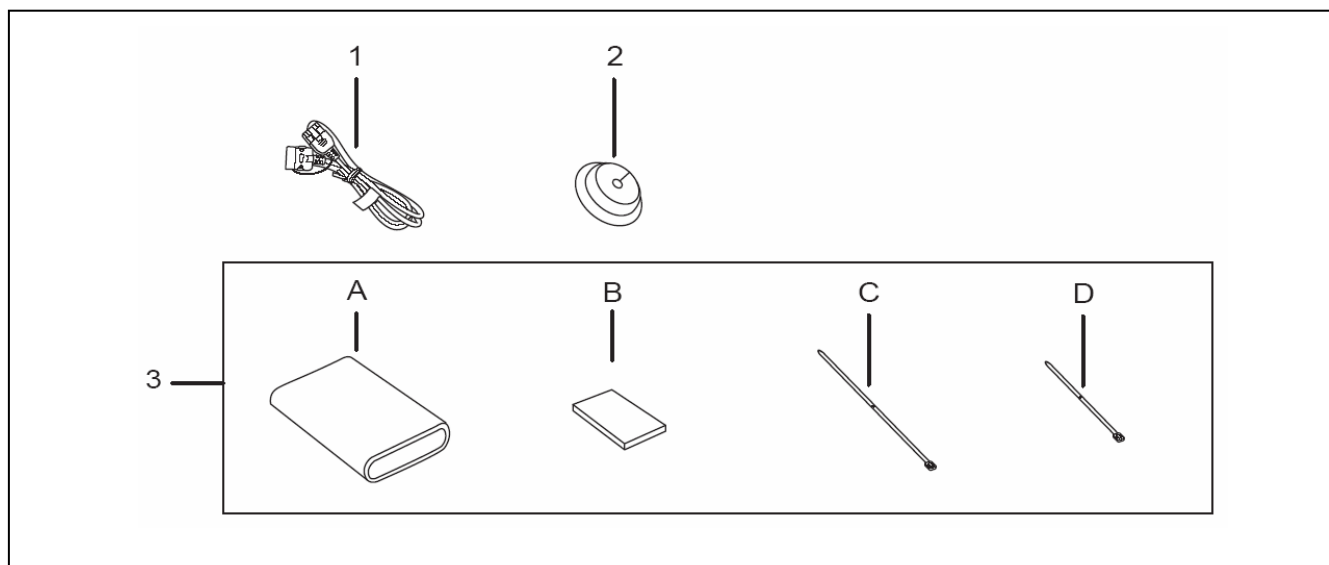
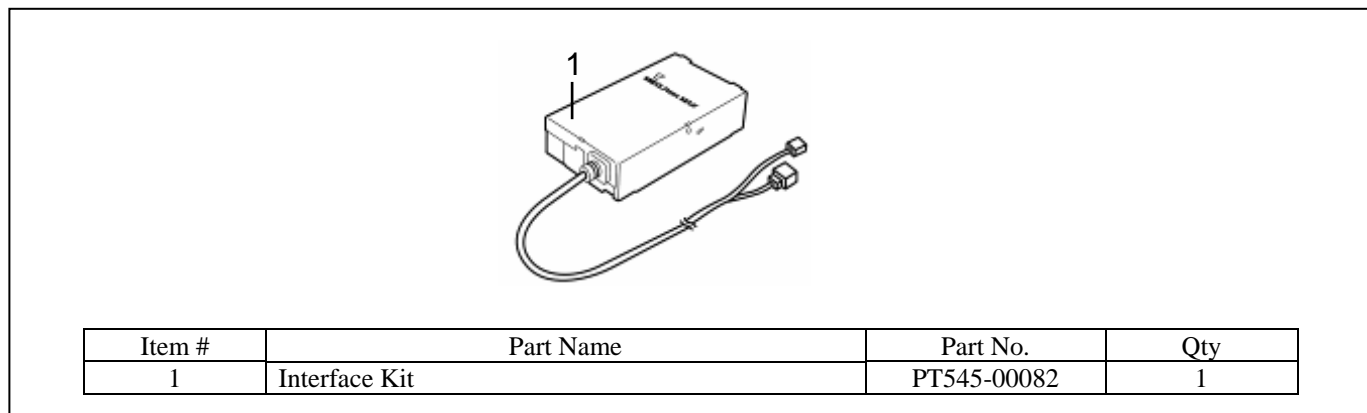
 **CAUTION:** A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.

 **TOOLS & EQUIPMENT:** Used in Figures calls out the specific tools and equipment recommended for this 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.

Parts Description of Interface Kit Assy.



Parts Description of Mounting Kit (PT545-00082)

Item #	Part Name	Qty
1	iPod Cable	1
2	Grommet	1
3	A Foam Sleeve	1
	B 2x4 inch Adhesive Protective Foam	4
	C 14 inch Lock Tie	4
	D 6 inch Lock Tie	2

Procedure

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.

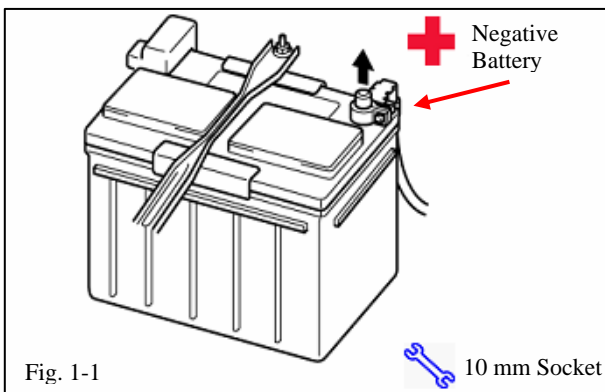
This document covers such items as:-

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



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

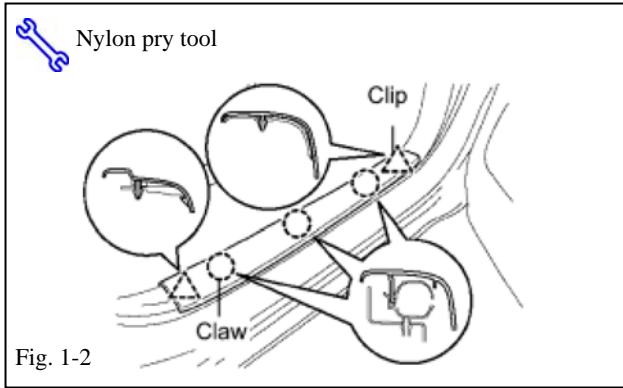
NOTES

-  **Removed Parts:** -
Place all removed parts on a protected surface.
-  **Connectors:** -
When disconnecting connectors, do not pull on the wires; pull on the connectors.
-  **Lock Ties:** -
When using lock ties to secure harness, clip the lock ties after securing them.
-  **Machine Screws:** -
Start all machine screws by hand.
-  **When disconnecting a yellow connector for the SRS airbag, wait 90 seconds or more after disconnecting the negative battery cable before performing the next task.**



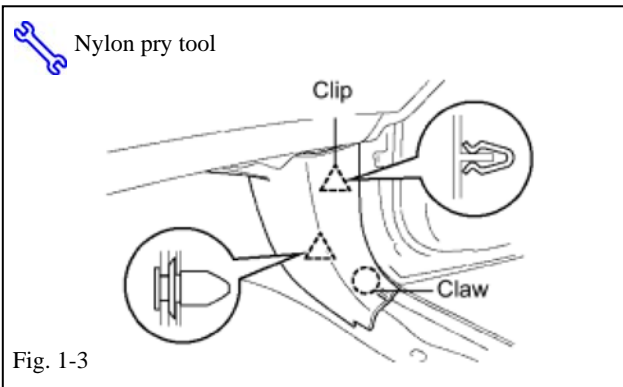
1. Disassembly of Vehicle.

-  (a) Remove the negative battery cable. (Fig. 1-1)
-  (1) Be careful not to touch the positive battery terminal.



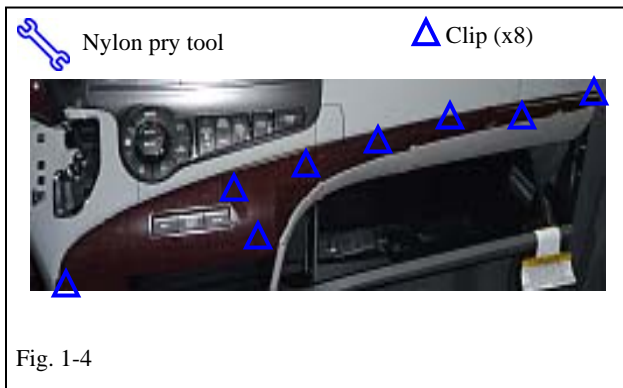
(b) Remove the front door scuff plate RH.

- (1) Using a nylon pry tool, disengage three (3) clips and two (2) claws, and remove the scuff plate. (Fig. 1-2)



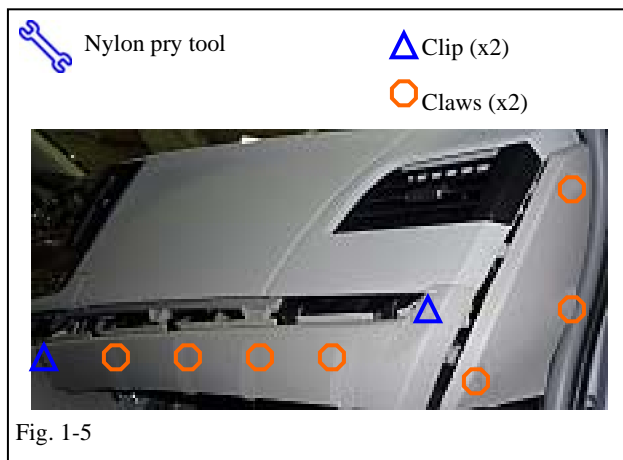
(c) Remove the cowl side trim board RH.

- (1) Using a nylon pry tool, disengage two (2) clips and one (1) claw, and remove the trim board. (Fig. 1-3)

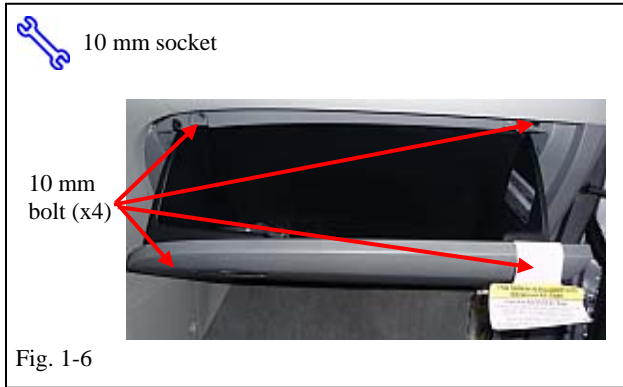


(d) Remove the passenger side dash trim.

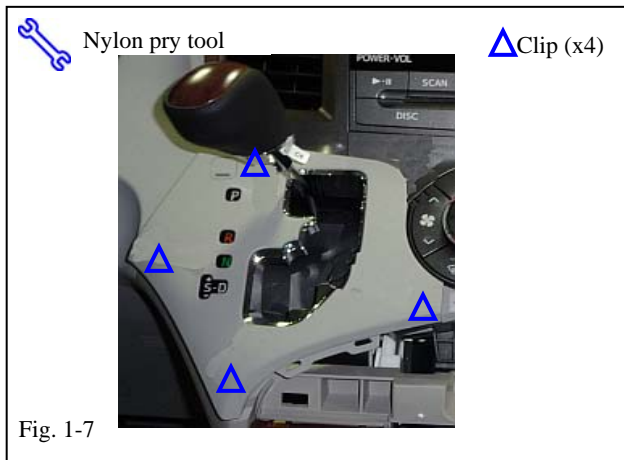
- (1) Disengage eight (8) clips and disconnect any electrical connections to remove the wood grain dash piece. (Fig. 1-4)



- (2) Remove side dash panel and the panel directly above the lower glove box. (Fig. 1-5)

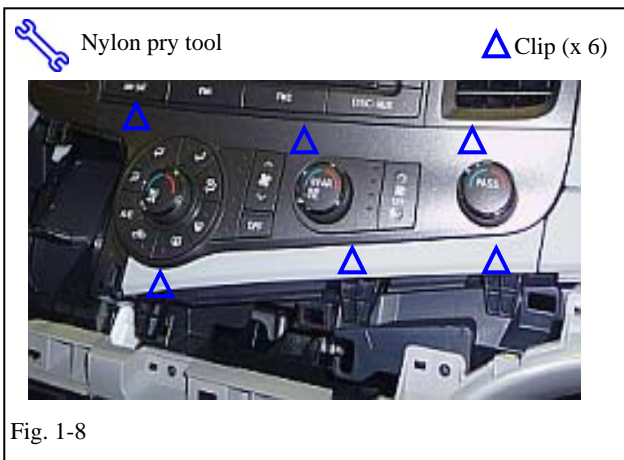


- (3) Remove four (4) 10 mm bolts to allow the removal of the lower glove box. (Fig. 1-6)

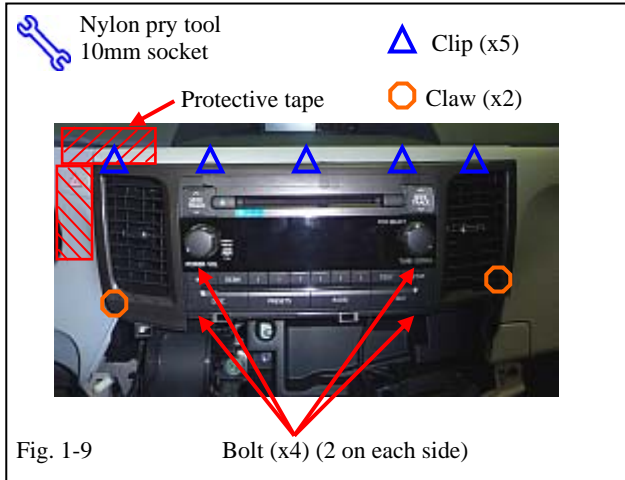


- (e) Remove shift lever panel. (Fig 1-7)
 - (1) Unscrew knob.
 - (2) Disengage four (4) clips.
 - (3) Disconnect wire harness, and remove panel.
 - (4) Move the shift lever to “L”.

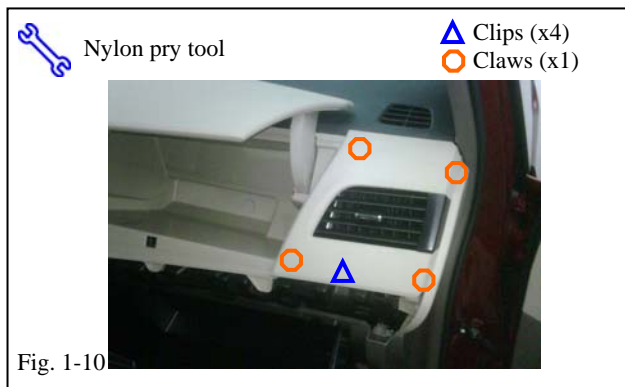
 **NOTE:** Protect the shift level.



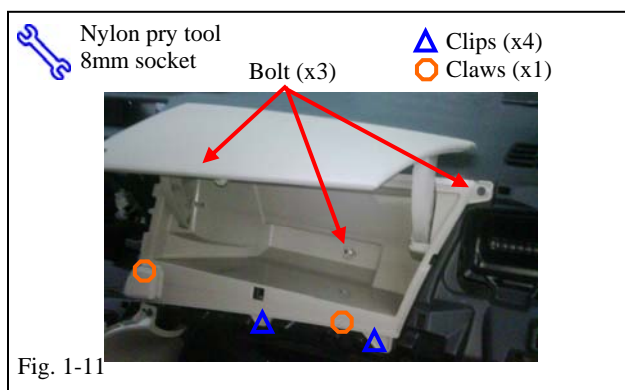
- (f) Remove HVAC control panel. (Fig 1-8)
 - (1) Disengage six (6) clips, disconnect any wire harness connections, and remove control panel.



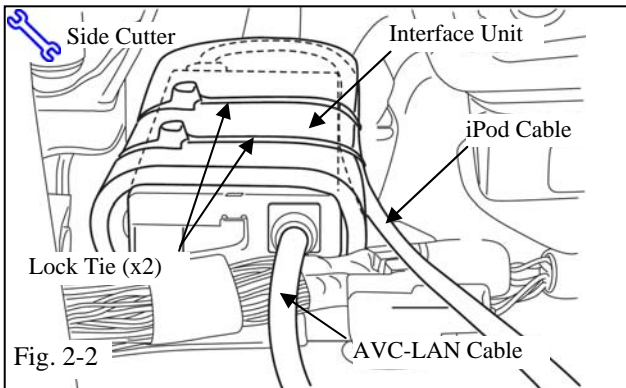
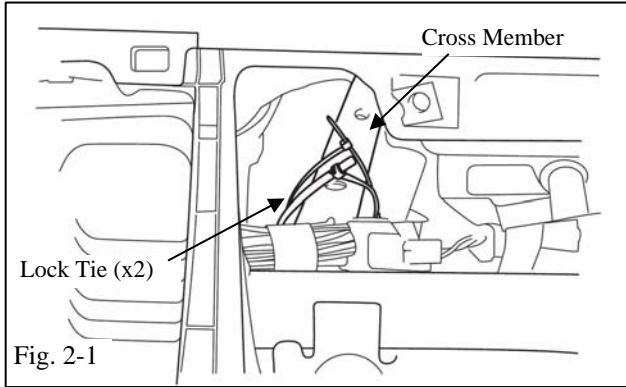
- (g) Remove radio assembly. (Fig. 1-9)
- !** (1) Add protective tape to dash overhang at left upper corner of radio head unit to prevent panel scuffing.
- (2) Remove bolts located below the L & R sides of the radio.
- (3) Disengage five (5) clips and two (2) claws.
- (4) Pull out the radio / vent assy.
- (5) Disconnect radio harness connections.
- (6) Vent covers will remain on radio.



- (h) Remove the upper side (RH) vent assembly.
- (1) Disengage one (1) claw and four (4) clips, and then remove the upper side (RH) vent assembly. (Fig. 1-10)



- (i) Remove the upper glove box. (Fig. 1-11)
- (1) Remove two (2) bolts.
- (2) Remove the center cover and remove the bolt.
- (3) Disengage two (2) clips and two (2) claws.



2. Install the Cables and Interface Unit.

- (a) Place two (2) 14” lock ties around the cross member inside the glove box. (Fig. 2-1)

NOTE: Do not tighten the lock ties.

- (b) Install the foam sleeve over the interface unit.

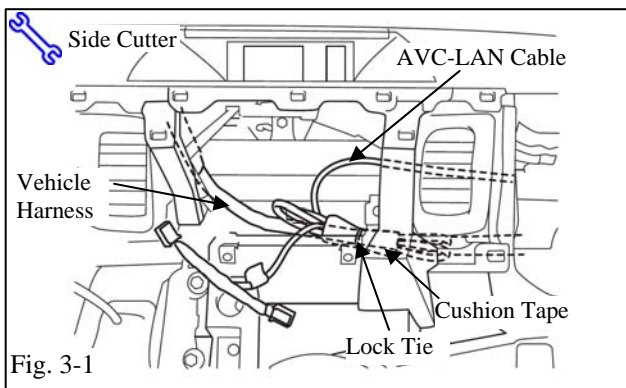
- (c) Connect the iPod cable to the interface unit. (Fig. 2-2)

- (d) Slide the interface unit and the iPod cable through two (2) 14” lock ties.

- (e) Tighten two (2) 14” lock ties and secure the interface unit and the iPod cable. (Fig. 2-2)

- (1) Make sure that the iPod cable is not bent too tightly or kinked.
- (2) The interface unit should fit securely to the cross member.

NOTE: Trim excess from all lock ties after tightening. Ensure the lock ties are not interfering with any panels, harnesses or brackets.

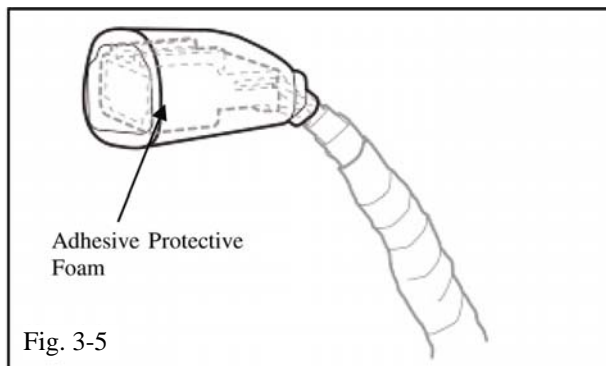
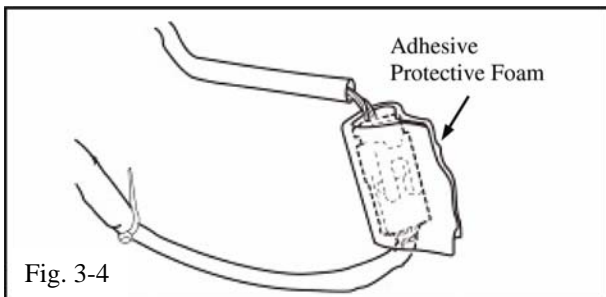
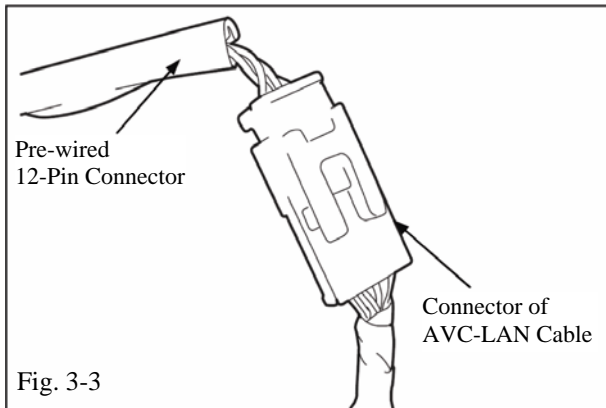
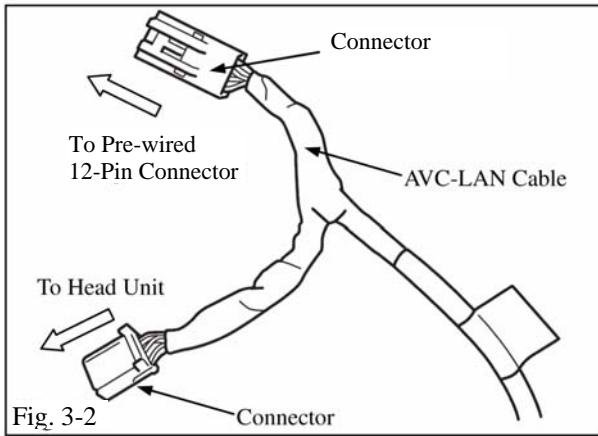


3. Connect the AVC-LAN Cable to the Head Unit.

- (a) Route the AVC-LAN cable through the opening to the head unit. (Fig. 3-1)
- (b) Bundle the excess AVC-LAN cable with cushion tape and secure to the vehicle harness behind the head unit by using one (1) 14” lock tie. (Fig.3-1)



NOTE: Match the length of the AVC-LAN cable to the factory audio connectors.



NOTE: If the 12-pin connector is already pre-wired to the head unit, proceed to step (c). If the 12-pin connector is not pre-wired to the head unit, proceed to step (d).

(c) If the 12-pin connector is already pre-wired to the head unit.

(1) Remove the pre-wired 12-pin connector from the head unit.

(2) If applicable, plug the pre-wired 12-pin connector into the connector of the AVC-LAN cable. (Fig. 3-2 & 3-3)

(3) Wrap the connectors with adhesive protective foam to secure. (Fig. 3-4)

(4) Plug the connector of the AVC-LAN cable into the head unit. (Fig. 3-6)

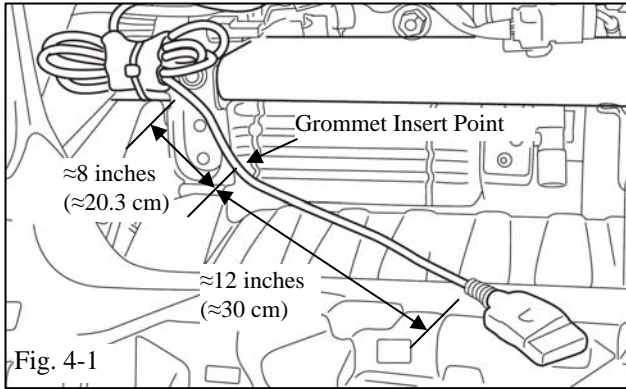
(5) Reconnect the factory harness and antenna.

(d) The 12-pin connector is not pre-wired to the head unit.

(1) Wrap the unused connector of the AVC-LAN cable in adhesive protective foam. (Fig. 3-5)

(2) Secure unused socket to factory harness with one (1) 6" lock tie.

(3) Reconnect the factory harness and antenna.

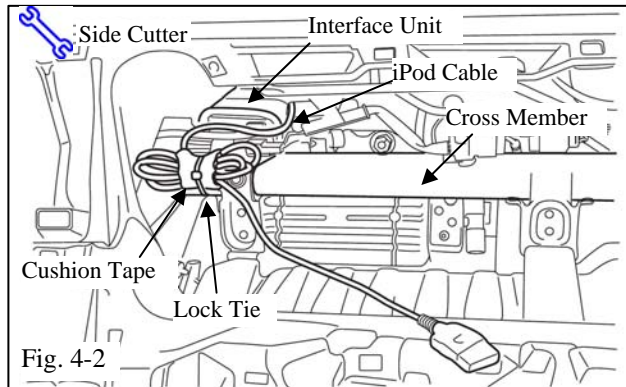


4. Secure the iPod Cable.

- (a) Bundle the excess iPod cable with the cushion tape behind the glove box. (Fig. 4-1)

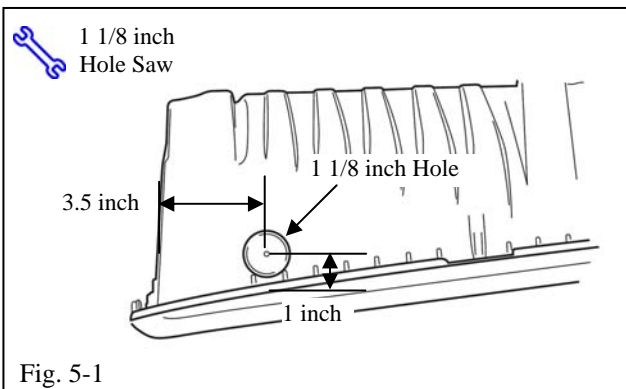
NOTE: Ensure the cable is exiting the right side of the bundle to keep proper length.

- (1) Provide sufficient iPod cable length so 12 inches of cable will be in the glove box after installation. (Fig. 4-1)



- (b) Secure the bundle of iPod cable to the cross member with one (1) 14" lock tie. (Fig. 4-2)

- (c) Trim off excessive lock tie length.



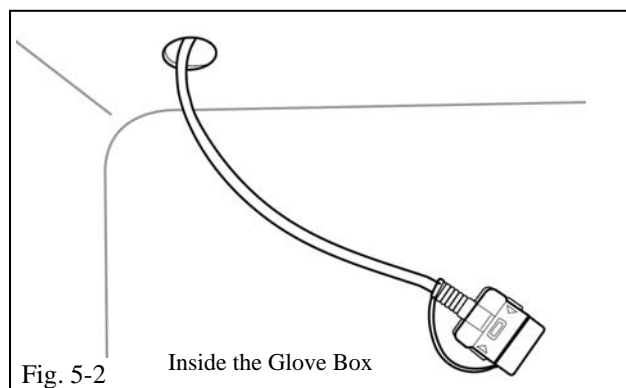
5. Route the iPod Cable Terminal.

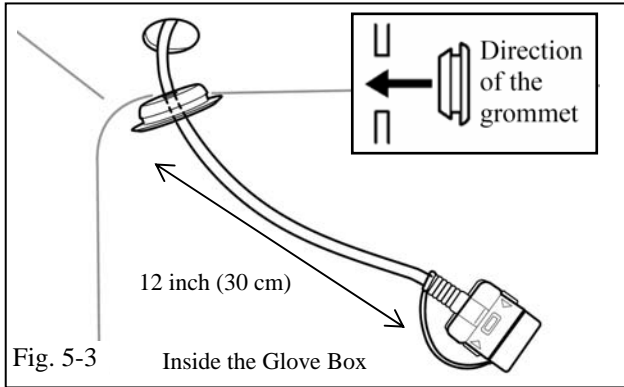
- (a) Make a round hole through which the cable can pass at the location on the glove box shown in the illustration. (Fig. 5-1)

NOTE: Ensure that the glove box is closed and locked to prevent damage of the backside of the glove box when drilling the hole.

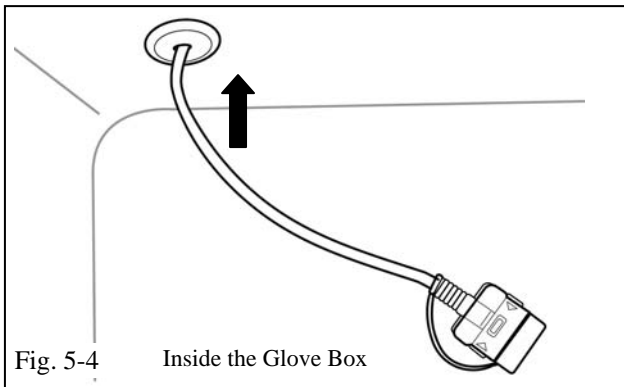
- (1) Hole saw is 1 1/8" (29 mm)
- (2) De-bur drilled hole.
- (3) Clean shaving from glove box after drilling.

- (b) Route the iPod cable through the hole and into the glove box. (Fig. 5-2)





(c) Apply the grommet to the iPod cable. The distance from the grommet to the iPod connector terminal should be approx. 12 inches. (Fig. 5-3)

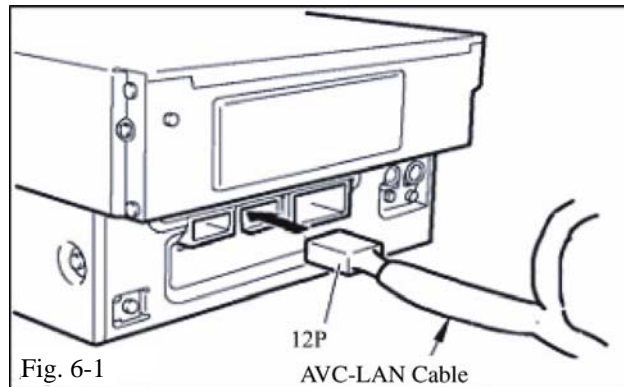


(d) Secure the grommet to the hole from the inside of the glove box. (Fig. 5-4)

NOTE: The inside of the glove box should look like Fig. 5-4.

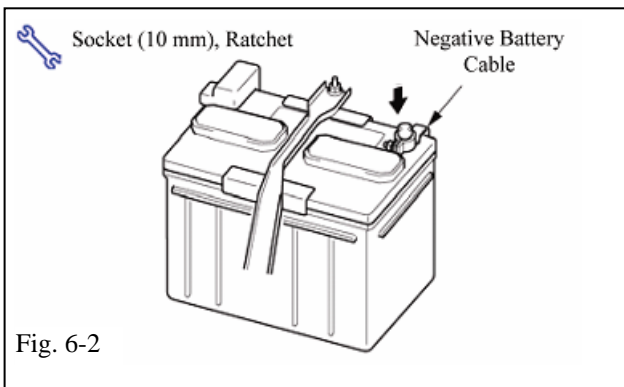
(e) Reinstall the glove box.

6. In Process Test of Interface Kit



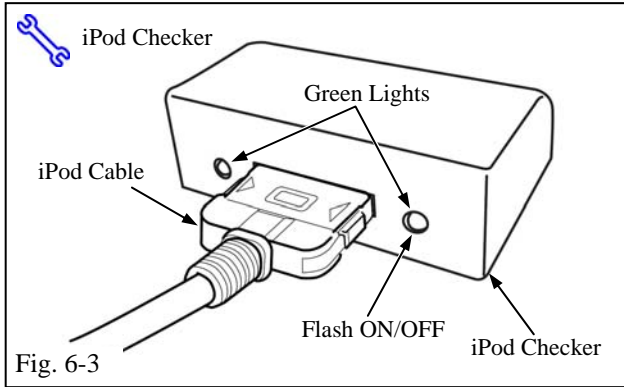
(a) Plug the connector of the AVC-LAN cable and all audio pre-wired cables into the head unit. (Fig. 6-1)

(b) Temporarily reinstall the head unit.



(c) Temporarily reconnect the negative battery cable. (Fig. 6-2)

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



- (d) Connect the iPod cable to the iPod checker. (Fig. 6-3)
 - (1) The first green light on the checker will remain lighted at all times to show that it is connected.
- (e) Confirm the proper connection of the interface kit.



- (1) If the interface kit is successfully connected, the second green light on the checker will flash once every second.

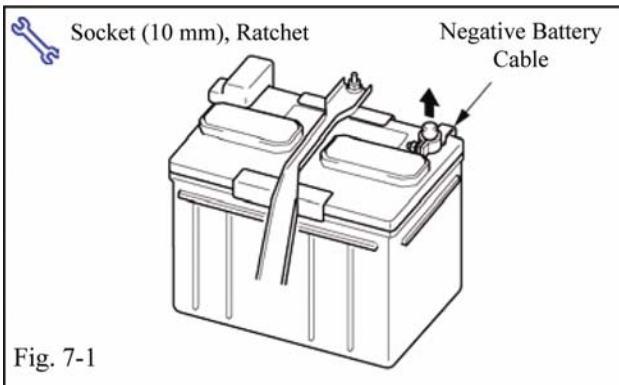


- (2) If the interface kit has not been successfully connected, the second light will not flash.

- (f) After testing for proper connection of the interface kit, disconnect the negative battery cable.
- (g) Remove the head unit.

7. Complete the Reassembly of the Vehicle

- (a) Reinstall upper glove box assembly.
- (b) Reinstall the head unit.
- (c) Reinstall dash components & trim pieces.
 - (1) Reconnect any disconnected connectors.
- (d) Reconnect the vehicle's negative battery cable. (Fig. 7-1)



- (2) Tighten the nut with 4.1 N-m (36 in-lbf) of torque.



- (3) Be careful not to touch the positive battery terminal.

- (e) Clean up and remove any trash.



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

TOYOTA SIENNA 2011 - INTERFACE KIT FOR IPOD
Checklist - these points **MUST** be checked to ensure a quality installation.

<u>Check:</u>	<u>Look For:</u>
<p><u>Accessory Function Checks</u></p> <p><input type="checkbox"/> Interface Kit</p> <p><input type="checkbox"/> Receiver/player Assembly</p>	<p>*Verify the proper operation of the Interface kit by using the checker.</p> <p>*Verify the proper operation of the Receiver/player Assembly.</p> <p>*Verify both AM & FM have good reception.</p> <p>*(Refer to the received assembly and radio owner's manuals.)</p>
<p><u>Vehicle Function Checks</u></p> <p><input type="checkbox"/> Hazard Switch</p> <p><input type="checkbox"/> HVAC</p> <p><input type="checkbox"/> Multi-Information Displays (Clock, Temp., and MPG Meter)</p> <p><input type="checkbox"/> Operation of the 12V Outlet Switch</p> <p><input type="checkbox"/> Audio AM/FM</p> <p><input type="checkbox"/> NAV Antenna Functioning</p>	<p>Verify the proper operation of the hazard switch.</p> <p>Verify the proper operation of the air conditioning system.</p> <p>Verify the proper operation of the multi-information displays.</p> <p>Verify the proper operation of the 12V outlet switch.</p> <p>Verify the proper operation of audio AM/FM.</p> <p>Confirm navigation operation by AVN diagnostics.</p>