

Part Number: PT545-00082

Kit Contents

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

Unit Assembly Kit Contents

Item #	Quantity Req'd.	Description
1	1	Interface Kit

Mounting Kit Contents

Item #	Quantity Req'd.	Description
1	1	iPod Cable
2	1	Grommet

Hardware Bag Contents

Item #	Quantity Req'd.	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

XM or Sirius Satellite Radio

Requirement

SAT Ready Head Unit

Recommended Tools

Personal & Vehicle Protection	Notes
Safety Goggles	
Seat Covers	
Special Tools	
Panel Clip Remover	
Sockets	10 mm, 8 mm
Screwdriver	Phillips, #2
Torque Wrench	4.1 N•m (36 lbf-in) (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	3M™ Prep Sol-70

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

General Applicability

Note:

Recommended Sequence of Application

Item #	Accessory
1	Security System
2	RES
3	EC Rearview Mirror
4	iPod Interface

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Req'd.	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.

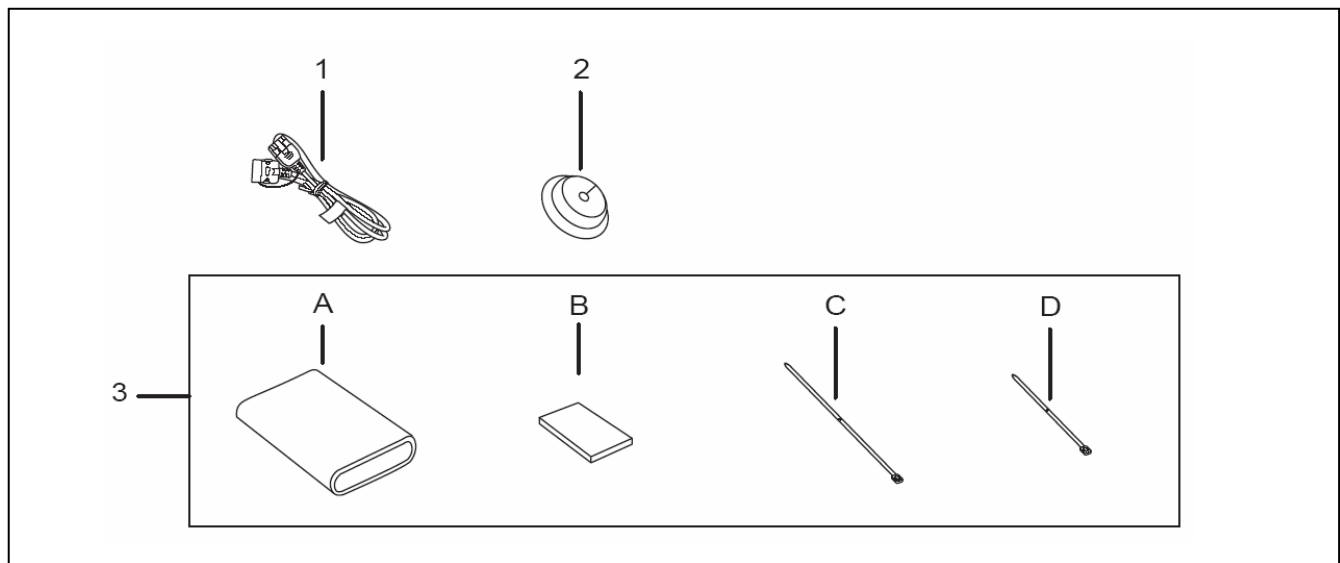
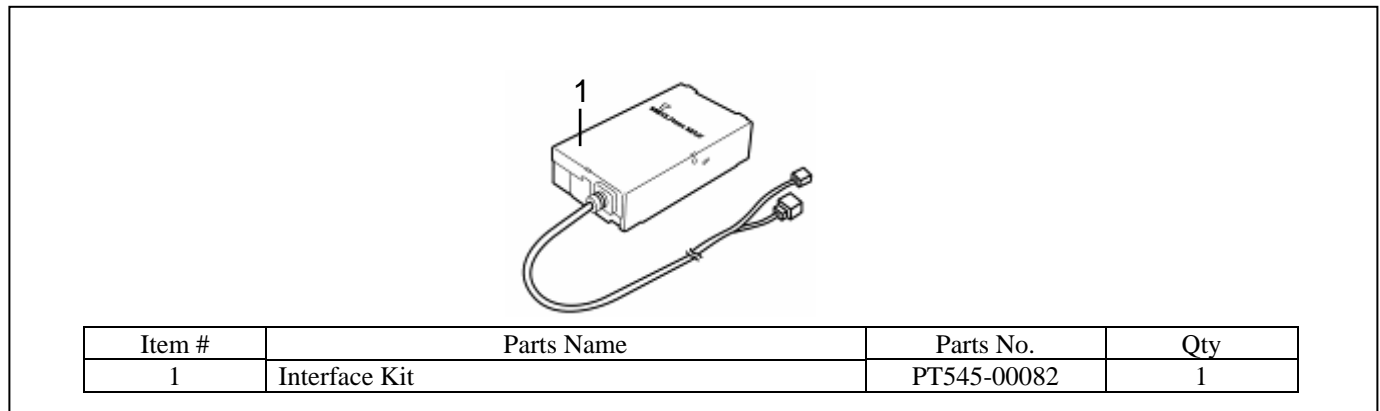


TOOLS & EQUIPMENT: Used in Figures calls out the specific tools and equipment recommended for this process.



REVISION MARK: This mark highlights a change in installation with respect to previous issue.

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 electrical 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.

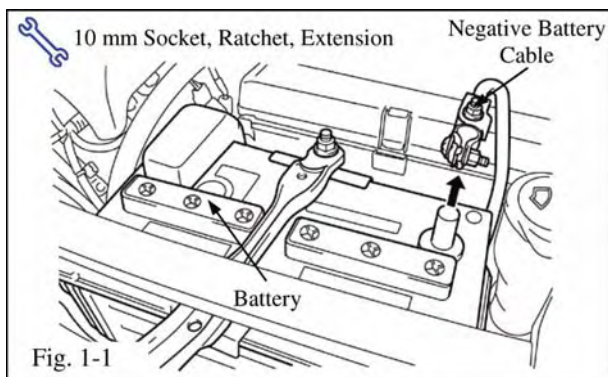


Machine Screws: -

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. Vehicle Protection.**

- (a) Place front passenger seat in mid position.
- (b) Set the parking brake.
- (c) Disconnect the negative battery cable of the battery installed on the left side of the engine compartment. (Fig. 1-1)



- (1) Protect the fender before starting.



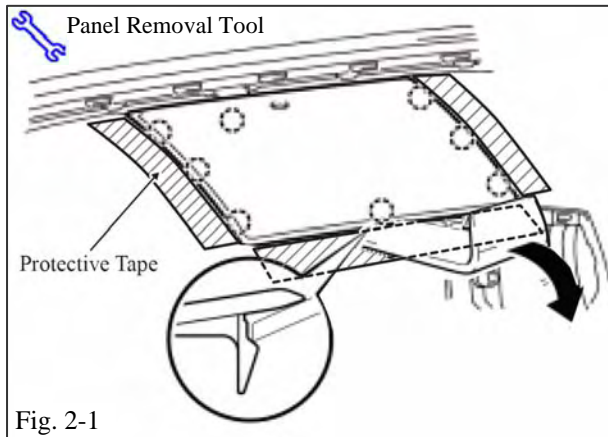
CAUTION: Do not touch the positive terminal with any tool when removing cable.



- (d) Using the protective blanket, cover front seats, interior of vehicle, center console and front side of the shift lever.



- (e) Wait 90 seconds before proceeding to disassemble vehicle.



2. Vehicle Disassembly.

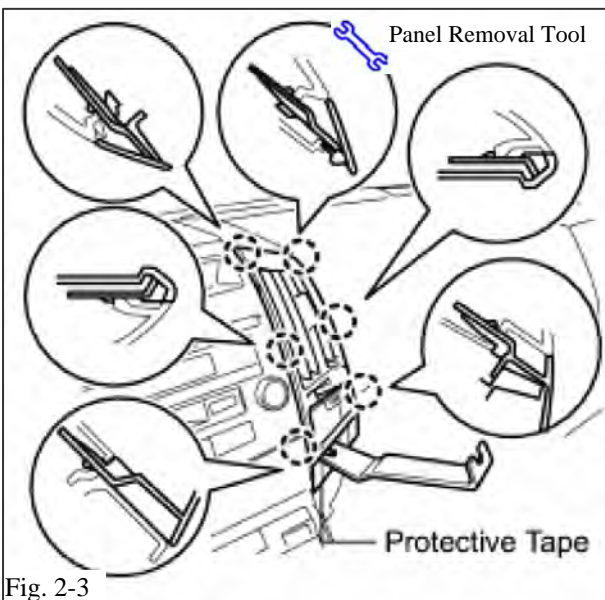
(a) Remove the speaker opening cover assembly.

- (1) Detach the eight (8) claws and remove the opening cover. (Fig. 2-1)
- (2) Disconnect the electrical connector.



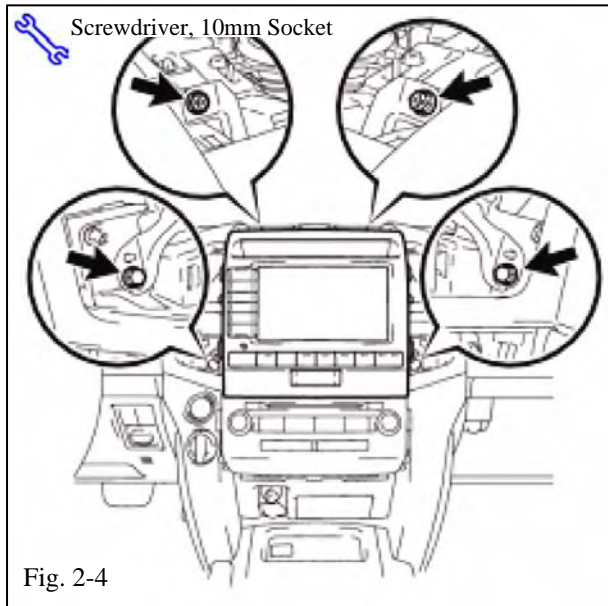
(b) Remove the instrument panel cluster LH.
(Fig. 2-2)

- (1) Place the protective tape as shown in the illustration.
- (2) Using a panel removal tool, detach the six (6) claws.
- (3) Remove the cluster and then disconnect the connector.



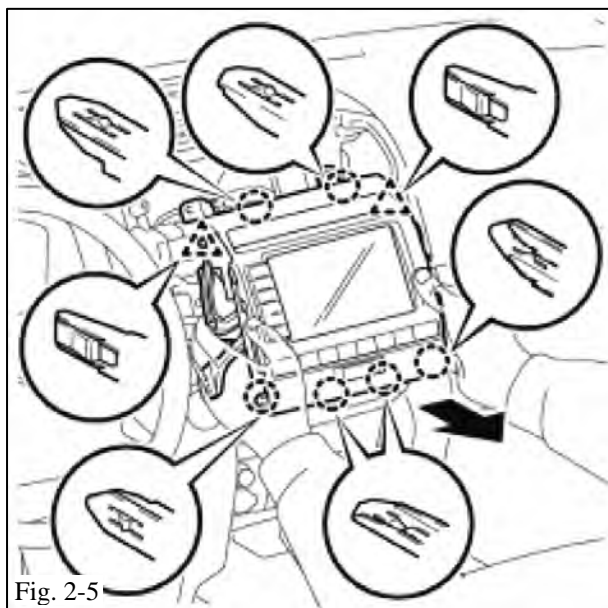
(c) Remove the instrument panel cluster RH.
(Fig. 2-3)

- (1) Place the protective tape as shown in the illustration.
- (2) Using a panel removal tool, detach the six (6) claws.
- (3) Remove the cluster and then disconnect the connector.



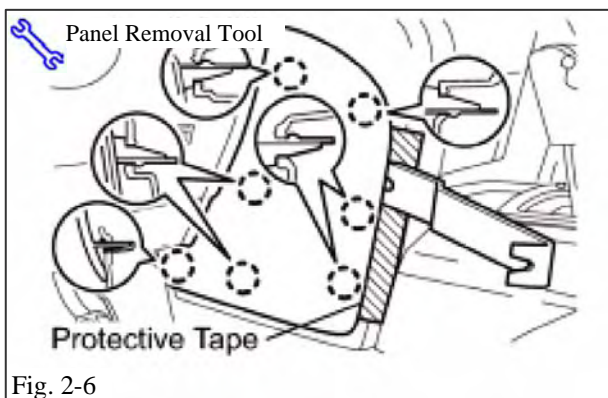
(d) Remove the multi-display assembly. (Fig. 2-4)

(1) Remove the two (2) screws and two (2) bolts.



(2) Pull the radio receiver to detach the two (2) clips and six (6) claws on the backside of the display. (Fig. 2-5)

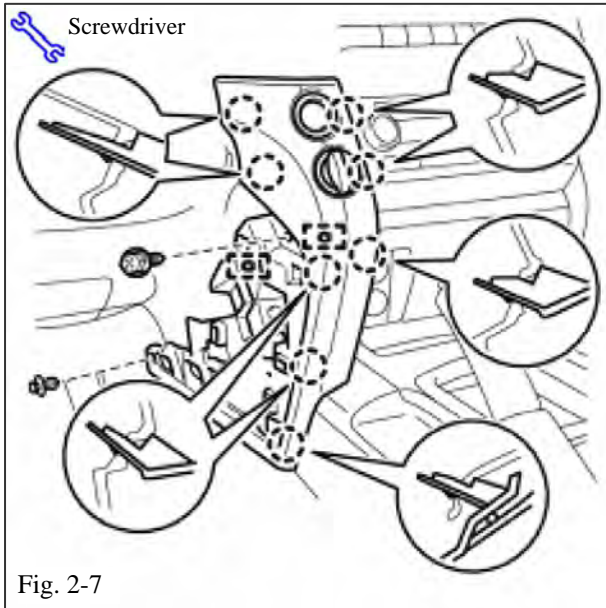
(3) Disconnect the connectors and remove the display.



(e) Remove the lower instrument pad cushion. (Fig. 2-6)

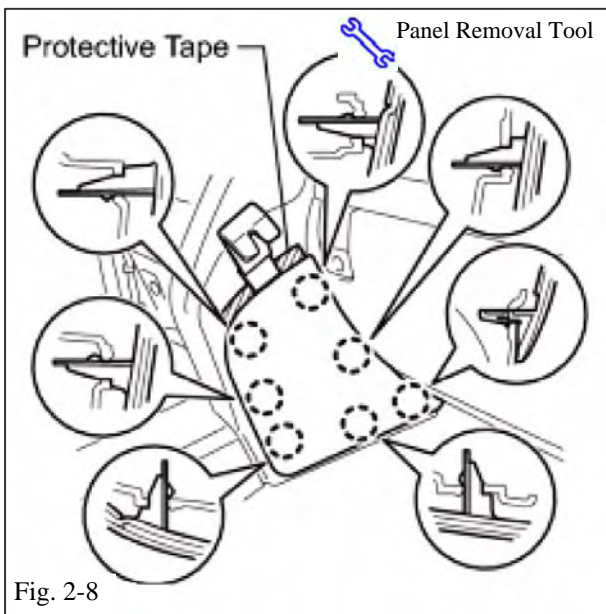
(1) Place the protective tape as shown in the illustration.

(2) Using a panel removal tool, detach the seven (7) claws and remove the pad cushion.



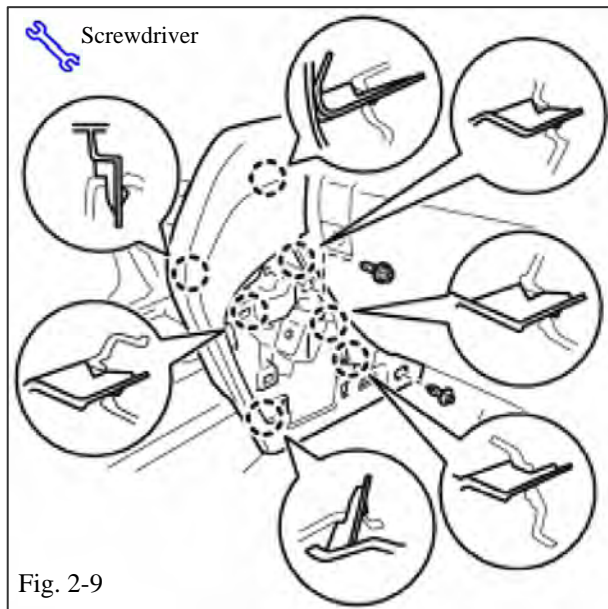
(f) Remove the lower instrument panel garnish LH. (Fig. 2-7)

- (1) Remove the clip.
- (2) Remove the screw.
- (3) Detach the eight (8) claws.
- (4) Remove the panel pad and disconnect the connectors and two (2) clamps.

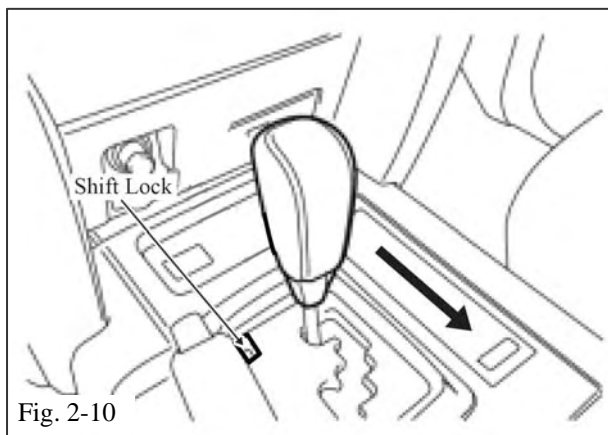


(g) Remove the lower instrument pad cushion. (Fig. 2-8)

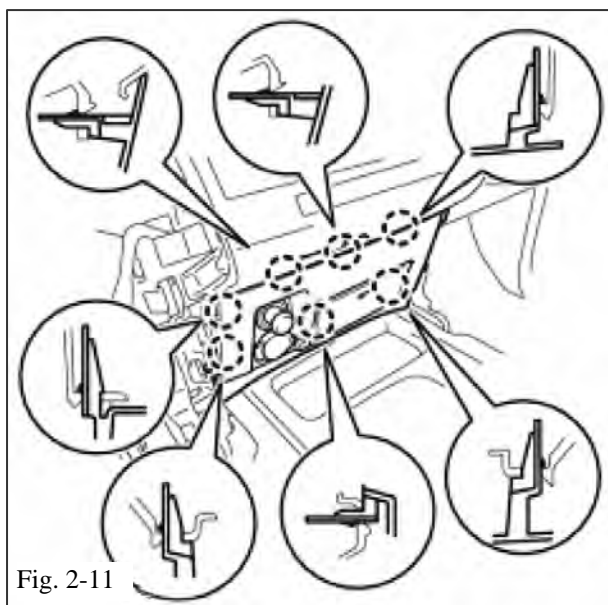
- (1) Place the protective tape as shown in the illustration.
- (2) Using a panel removal tool, detach the seven (7) claws and remove the pad cushion.



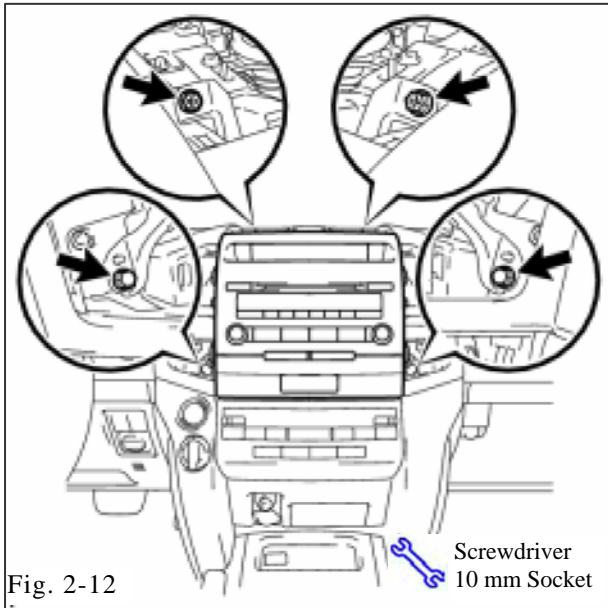
- (h) Remove the lower instrument panel garnish RH. (Fig. 2-9)
- (1) Remove the clip.
 - (2) Remove the screw.
 - (3) Detach the seven (7) claws and remove the panel.



- (i) Press the shift lock release and place the vehicle shifter into lowest gear position. (Fig. 2-10)

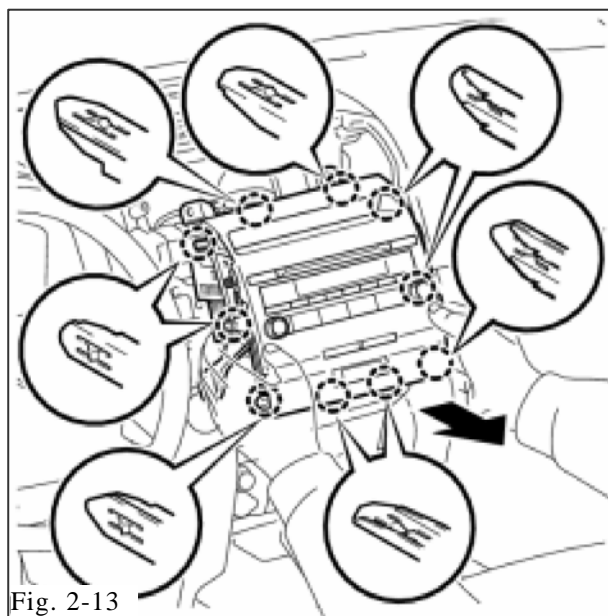


- (j) Remove the lower center instrument cluster. (Fig. 2-11)
- (1) Detach the seven (7) claws.
 - (2) Disconnect the connectors and remove the panel.

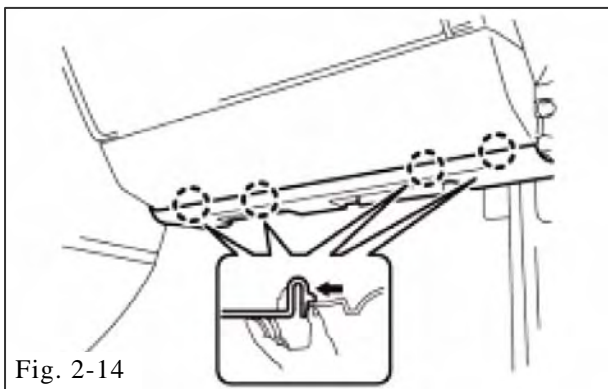


(k) Remove the radio receiver assembly with bracket. (Fig. 2-12)

(1) Remove the two (2) screws and two (2) bolts.



(2) Pull the radio receiver to detach the ten (10) claws on the backside of the radio receiver. (Fig. 2-13)



(1) Remove the instrument panel under cover sub-assembly. (Fig. 2-14)

(1) Detach the four (4) claws and remove the under cover.

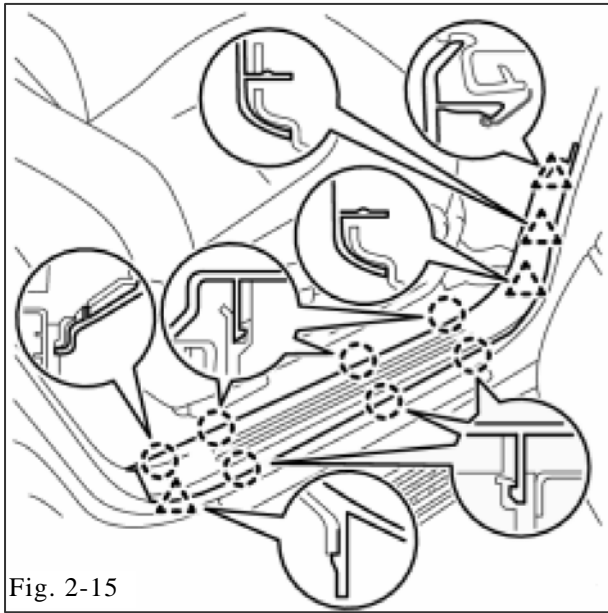


Fig. 2-15

(m) Remove the front door scuff plate RH.
(Fig. 2-15)

- (1) Detach the seven (7) claws and four (4) clips, and remove the scuff plate.

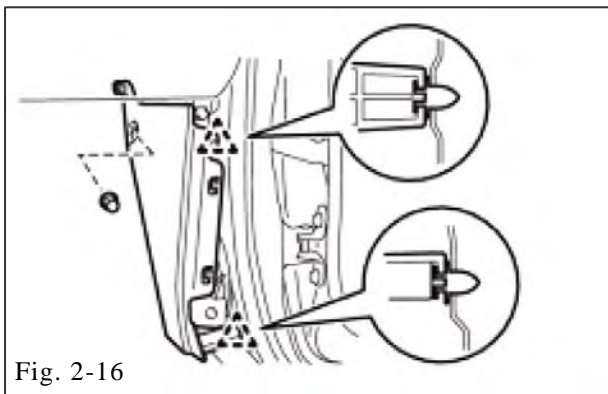


Fig. 2-16

(n) Remove cowl side trim board RH.
(Fig. 2-16)

- (1) Remove the cap nut.
- (2) Detach the two (2) clips and remove the trim board.

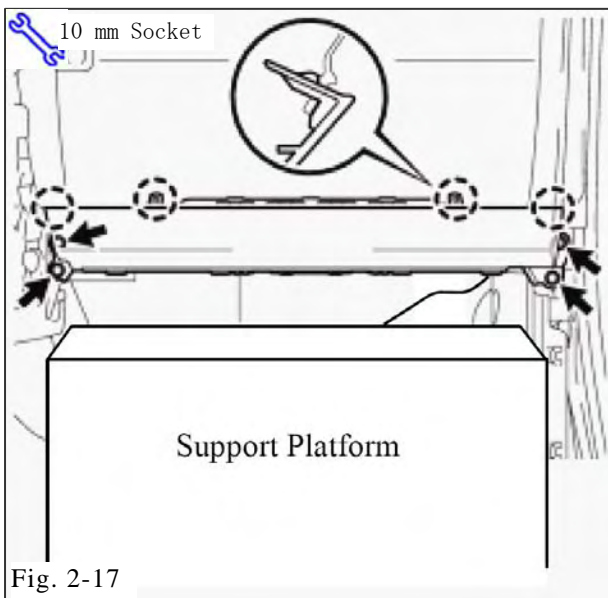


Fig. 2-17

(o) Remove the front passenger side knee airbag assembly. (Fig. 2-17)

- (1) Remove the four (4) bolts.
- (2) Detach the four (4) claws and remove the front passenger side knee airbag.
- (3) Do not disconnect the airbag connector.
- (4) Wrap the front passenger side knee airbag assembly with blanket and place knee airbag assembly on a support platform to avoid stress on wiring. (Fig. 2-17)

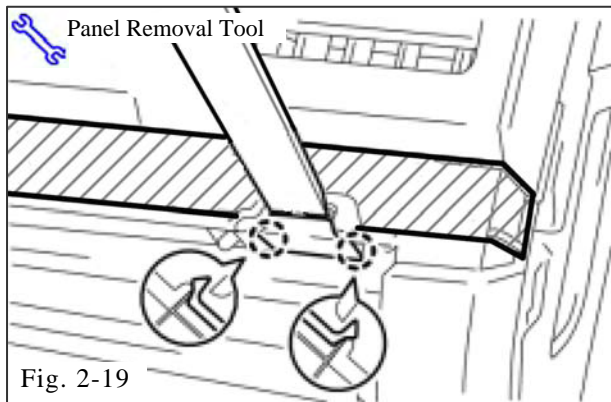


NOTE: When handling the airbag connector, take care not to damage the airbag wire harness.

(p) Remove instrument cluster finish panel garnish.

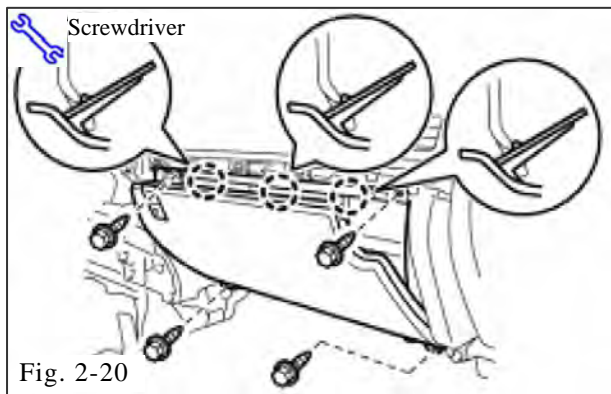
(1) Place protective tape as shown in the illustration.

(2) Using a molding remover, detach the six (6) claws and remove the panel garnish.



(q) Remove the glove box. (Fig. 2-19)

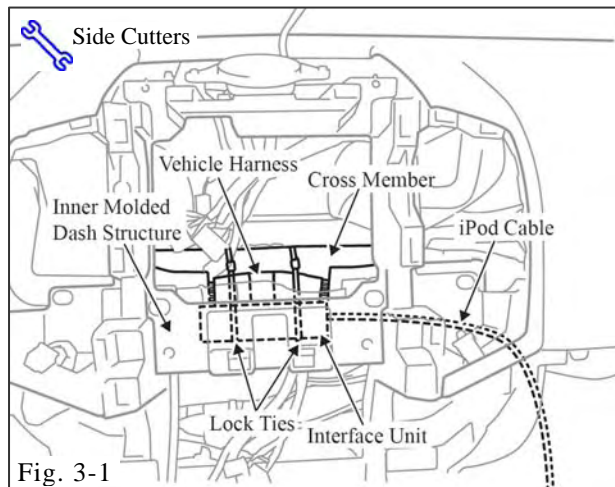
(1) Using a panel removal tool, detach the two (2) claws and remove the knob.



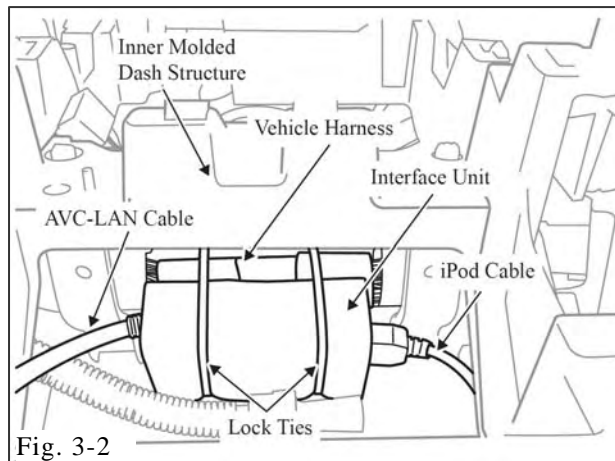
(2) Remove the four (4) screws. (Fig. 2-20)

(3) Detach the three (3) claws. (Fig. 2-20)

(4) Remove the glove box.



Bottom View



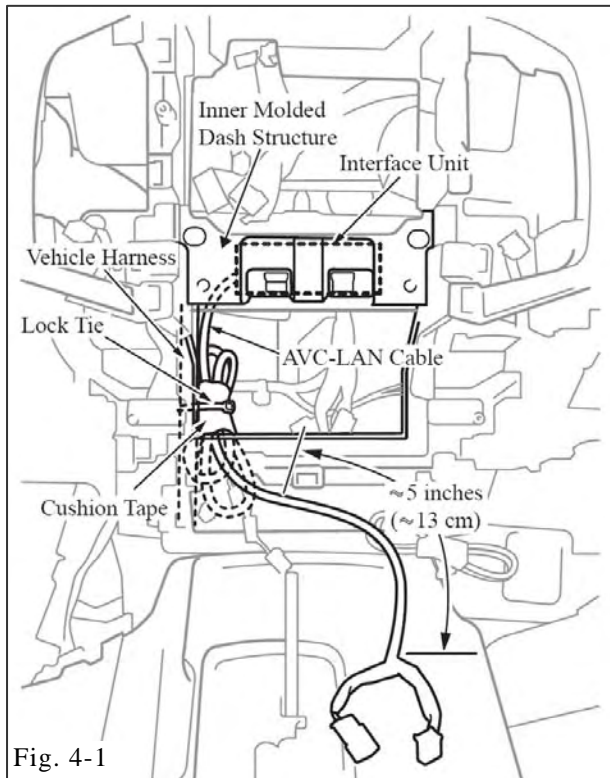
3. Install the Interface Unit.

- (a) Slide the interface unit into the foam sleeve.
- (b) Connect the iPod cable to the interface unit.
- (c) Place two (2) 14" lock ties around the cross member and the vehicle harness behind the inner molded dash structure at the back of the head unit.
 - (1) Lock ties must go over the cross member and vehicle harness.

NOTE: Do not tighten the lock ties.

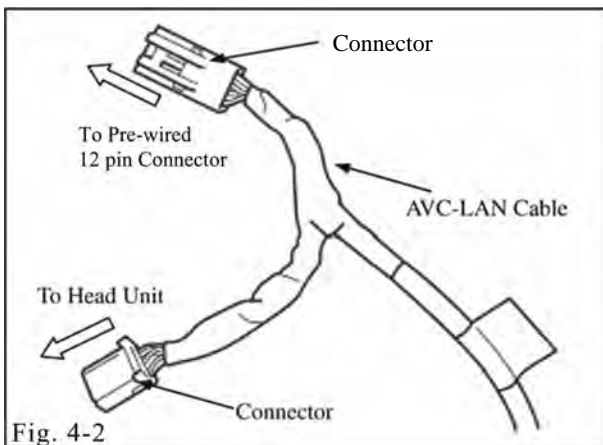
- (d) Install the interface unit beneath the vehicle harness behind the inner molded dash structure. (Fig. 3-1 & 3-2)
- (e) Secure the interface unit with the lock ties.

NOTE: Cut off all excess of lock ties after tightening.



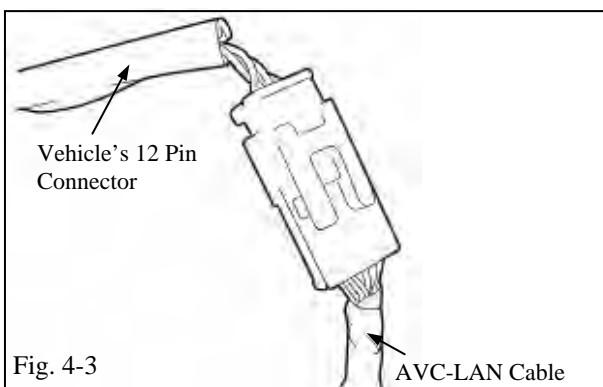
4. Connect the AVC-LAN Cable to the Head Unit.

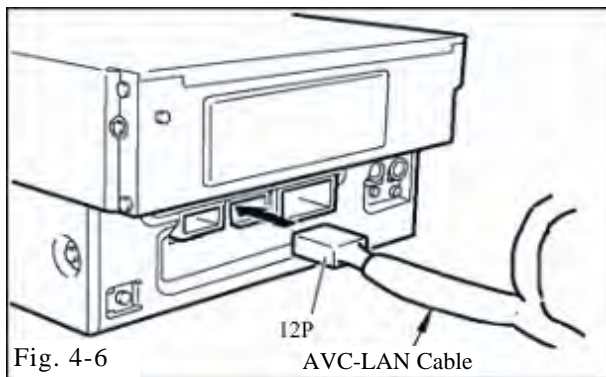
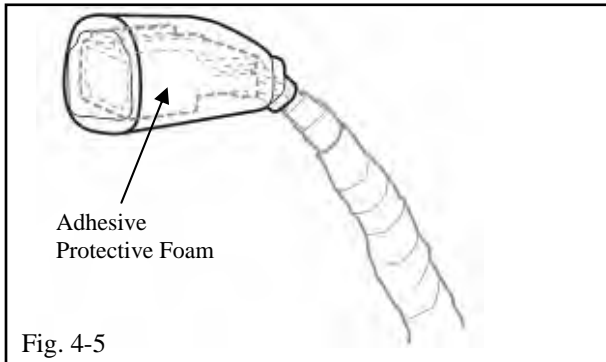
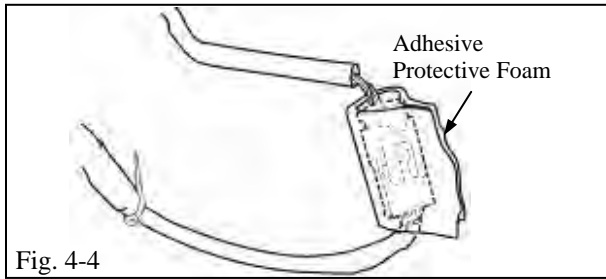
- (a) Bundle the excess AVC-LAN cable with cushion tape and secure to the vehicle harness with one (1) 6" lock tie. (Fig. 4-1)



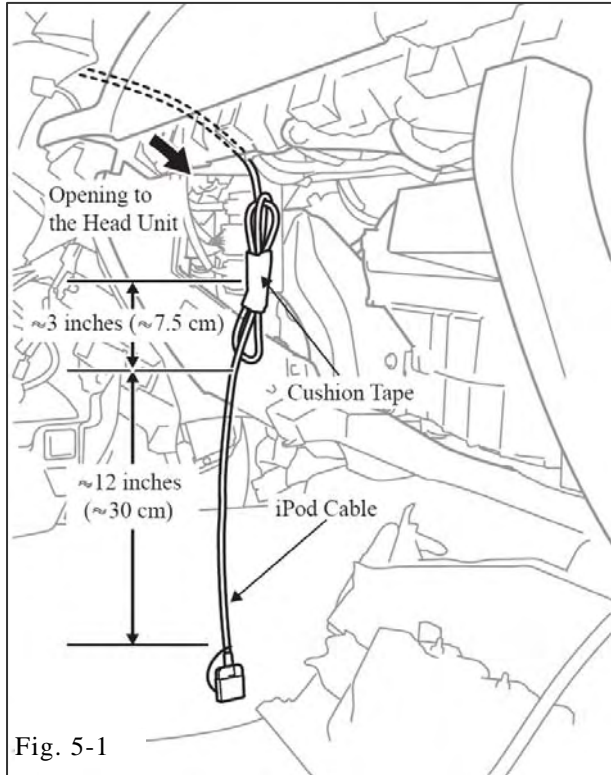
NOTE: If the 12-pin connector is already pre-wired to the head unit, proceed to step (b). If the 12-pin connector is not pre-wired to the head unit, proceed to step (c).

- (b) 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. 4-2 & 4-3)



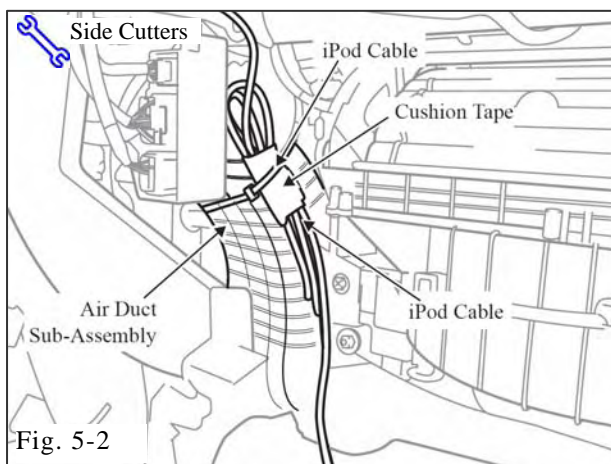


- (3) Wrap the connectors with adhesive protective foam to secure. (Fig. 4-4)
- (4) Plug the connector of the AVC-LAN cable into the head unit. (Fig. 4-5)
- (c) If the 12 pin connector is not pre-wired to the head unit.
 - (1) Wrap the unused connector of the AVC-LAN cable in adhesive protective foam. (Fig. 4-5)
 - (2) Reconnect the factory harness and antenna.
- (d) Plug the connector of the AVC-LAN cable into the head unit. (Fig. 4-6)
- (e) Reinstall the head unit.



5. Route the iPod Cable.

- (a) Route the iPod cable from the head unit to the glove box opening.
- (b) Bundle the excess the iPod cable and secure with the cushion tape. (Fig. 5-1)
 - (1) Provide sufficient cable length so 12 inches of cable will be in the glove box after installation.



- (c) Using one (1) 14" lock tie, secure the cable bundle to the air duct. (Fig. 5-2)

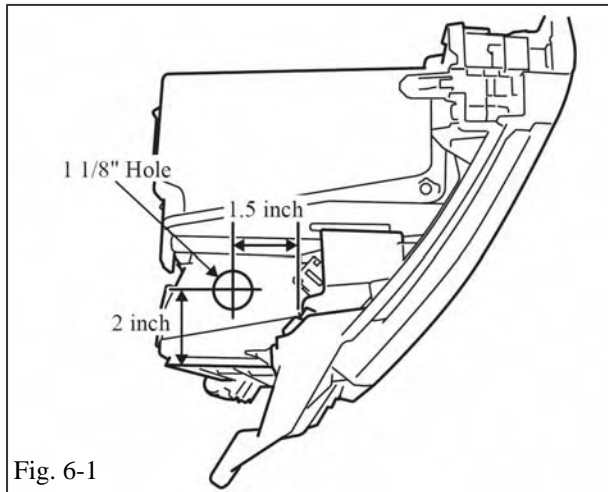


Fig. 6-1

6. 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. 6-1)
 - (1) Hole saw is 1 1/8" (29 mm).
 - (2) De-bur drilled hole.
 - (3) Clean shavings from glove box after drilling.

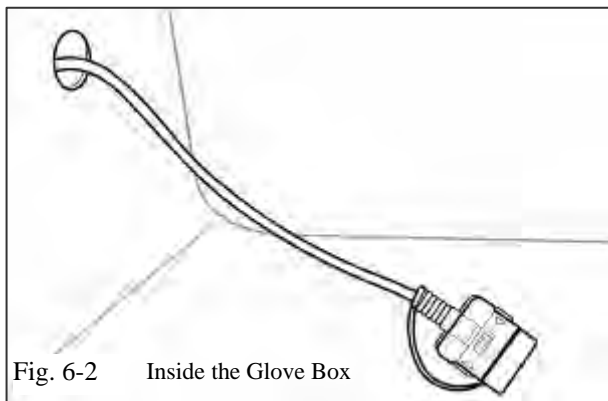


Fig. 6-2 Inside the Glove Box

- (b) Route the iPod cable through the hole from outside of the glove box. (Fig. 6-2)

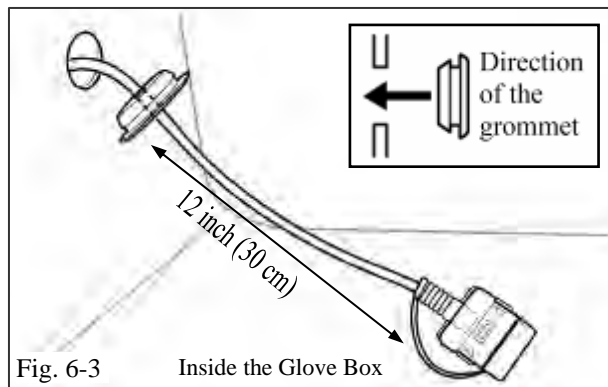
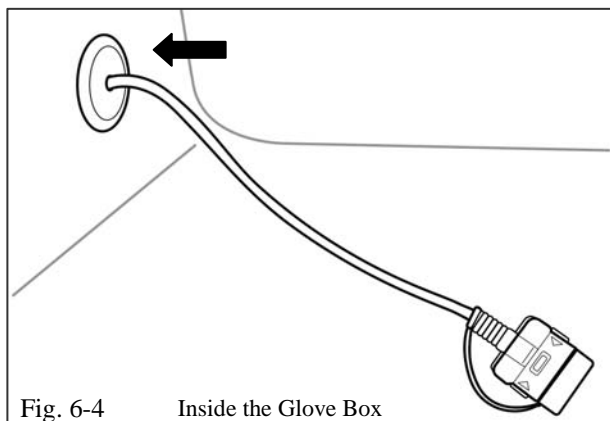
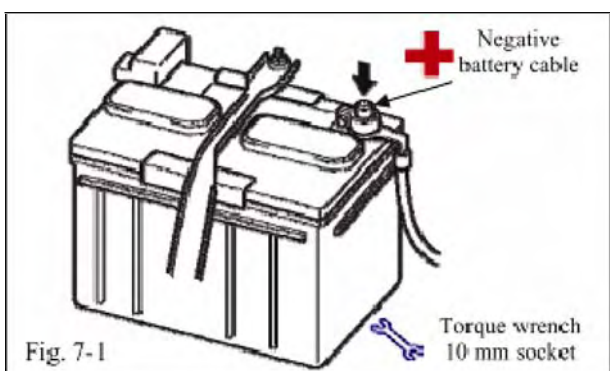


Fig. 6-3 Inside the Glove Box

- (c) Apply the grommet to the iPod cable. The distance from the grommet to iPod cable terminal should be approx. 12 inches. (Fig. 6-3)



- (d) Secure the grommet to the hole from the inside of the glove box. (Fig. 6-4)



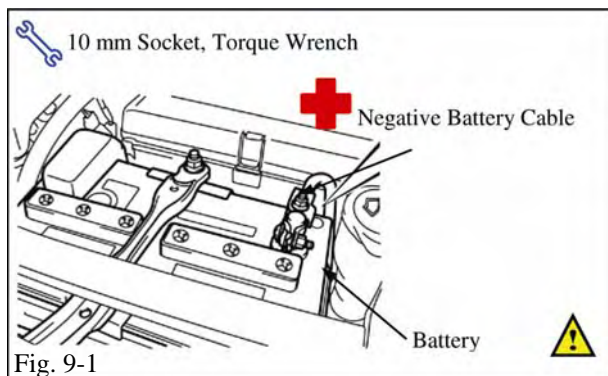
7. Vehicle Reassembly.

- Reassemble vehicle in opposite order that it was disassembled.
- Torque knee air bag bolts at 10 N·m (7 ft-lbf).
- Reconnect any disconnected connectors.
- Verify that panels fit together properly with no uneven gaps between them.



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

- Place the owner's manual in the glove box.
- Clean up and remove any trash.
- Proceed to functional verification.



8. Reconnect Negative Battery Cable.

- Reconnect the vehicle's negative battery cable. (Fig. 9-1)
 - Position the negative terminal to the battery as shown (original factory position).
 - Tighten the nut to 4.1 N·m (36 lbf·in).
 - Do not touch the positive terminal with any tool when replacing the cable.



TOYOTA LAND CRUISER 2008 - INTERFACE KIT FOR IPOD

Checklist - these points **MUST** be checked to ensure a quality installation.

Check:	Look For:
<u>Accessory Function Checks</u>	
<input type="checkbox"/> Interface Kit for iPod	Verify the proper connection of the Interface Kit.
<input type="checkbox"/> Audio Head Unit	Verify the proper operation of the audio head unit.* *Refer to the audio head unit owner's manuals.
<input type="checkbox"/> Navigation System	Execute DTC check, and confirm there is no error. (Refer to the LAND CRUISER Repair Manual.)
<u>Vehicle Function Checks</u>	
<input type="checkbox"/> Audio AM/FM	Verify the proper operation of the audio AM/FM.
<input type="checkbox"/> Hazard Switch	Verify the proper operation of the hazard switch.
<input type="checkbox"/> Passenger's Seat Belt Reminder Light	Verify the proper operation of the passenger's seat belt reminder light.
<input type="checkbox"/> Seat Lock Mechanism and Power Seat Operation	Verify the proper operation of the removed seat lock mechanism and power seat system.
<input type="checkbox"/> SRS Warning Light	Verify the SRS warning light illuminates for approximately 6 seconds with the engine/start switch ON, and then goes out.
<input type="checkbox"/> HVAC (heating ventilation and air conditioning) System	Verify the proper operation of the air conditioning system.
<input type="checkbox"/> Instrument Panel Switches Functions (Any electrical connector removed in this manual)	Verify the proper operation of the instrument panel switches functions.