

**PT900-48110, HIGHLANDER RSE (AUX/USB)**  
**PT900-48111, HIGHLANDER RSE (AUX)**

| Item # | Quantity Req'd. | Description                         |
|--------|-----------------|-------------------------------------|
| 1      | 2               | Seat Top Dock Assembly              |
| 2      | 2               | Seat Top Dock Cover                 |
| 3      | 2               | Extension Cable                     |
| 4      | 1               | Audio Interface Module              |
| 5      | 1               | Power / Audio Interface Harness     |
| 6      | 1               | Bracket Kit                         |
| 7      | 1               | Hardware Bag                        |
| 8      | 1               | AIM Bracket Carpet Cutting Template |
| 9      | 1               | Seat Top Foam Cutting Template      |
| 10     | 1               | Owner's Manual, Toyota Seat Top DVD |

| Item # | Quantity Req'd. | Description                    |
|--------|-----------------|--------------------------------|
| 1      | 1               | Audio Interface Module Bracket |
| 2      | 2               | Lower Bracket                  |
| 3      | 2               | Upper Bracket                  |
| 4      | 2               | Spacer, Seat Top Bracket       |
| 5      | 4               | Screw, M4 x 8mm                |
| 6      | 2               | Screw, M4 x 28mm               |

| Item # | Quantity Req'd. | Description               |
|--------|-----------------|---------------------------|
| 1      | 20              | Cable Tie, 8" Black       |
| 2      | 3 Sheets        | 18 Foam Pads, 2.5" x 1.5" |
| 3      | 4               | Nut, M4                   |
| 4      | 1               | Butyl Tape Kit            |
| 5      | 2               | Female T-Tap, Connector   |
| 6      | 14              | Hog Ring                  |
| 7      | 8               | Screw, M4 x 25mm          |

| Item # | Quantity Req'd. | Description                               |
|--------|-----------------|---|
| 1      | 1               | Universal Seat Top LCD/DVD<br>PT900-01100 |

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| <b>Personal &amp; Vehicle Protection</b> | <b>Notes</b>                                       |
| Vehicle Protection                       | Blankets, Seat Covers, Protective Seat Feet Covers |
| <b>Special Tools</b>                     | <b>Notes</b>                                       |
| <b>Installation Tools</b>                | <b>Notes</b>                                       |
| Pliers                                   |  |
| Drive Ratchet                            | 1/4", 3/8"   |
| Socket                                   | 7mm, 8mm, 10mm, 12mm, 14mm, M3 Allen               |

|                                       |                           |
|---------------------------------------|---------------------------|
| Torque Wrenches                       | 10-50 lbf•in, 5-75 lbf•ft |
| Ratchet, Extension                    | 6"                        |
| Screwdriver                           | Phillips #2               |
| Plastic Pry Tool                      | Panel Removal             |
| Masking Tape                          |                           |
| Razor Knife, Long Retractable         |                           |
| Side Cutters                          |                           |
| Hog Ring Tool                         | Hog Ring Installation     |
| Felt tip Marker                       |                           |
| Electrical Tape                       |                           |
| Allen Key                             | M3                        |
| VDC Approved Cleaner                  |                           |
| Test DVD Discs (2)                    |                           |
| Dual Channel Test Wireless Headphones |                           |
| Techstream                            |                           |
| Test Remote Control                   |                           |
| <b>Special Chemicals</b>              | <b>Notes</b>              |

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|        |           |
|--------|-----------|
| Item # | Accessory |
| 1      | DVD RSE   |

\*Mandatory

 **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.

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 in an area they will not be damaged.

Connectors:-



When disconnecting connectors, do not pull on the wires; pull on the connectors.

#### 1. Vehicle Preparation and Protection

(a) Set parking brake.

(b) On the gasoline engine model, disconnect the negative cable of the battery installed on the right side of the engine compartment (Fig. 1-1) and proceed to step 1(f).



-or-

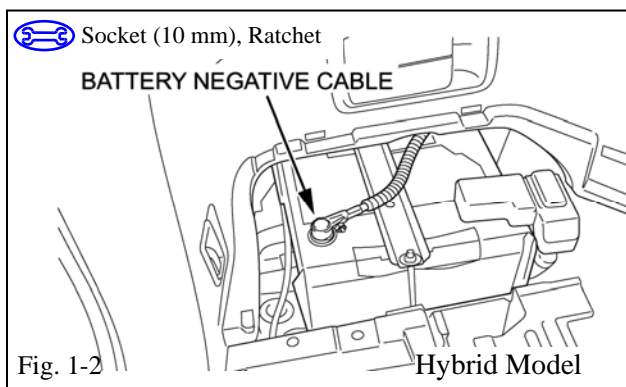
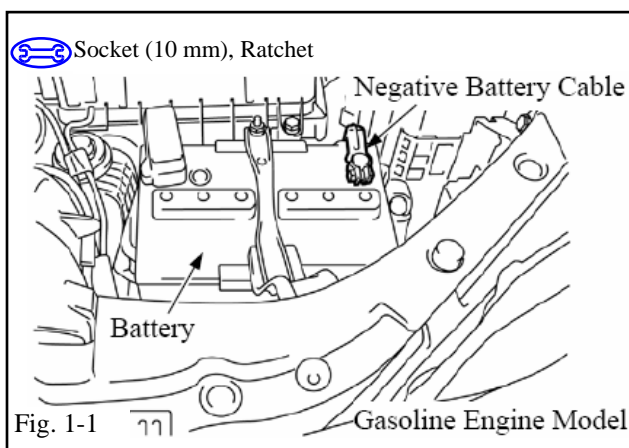
On the hybrid model, disconnect the negative cable of the auxiliary battery installed in the interior rear of the vehicle, under the driver side rear deck board (Fig. 1-2). Refer to steps 1(c) to 1(e) to access the negative battery cable.

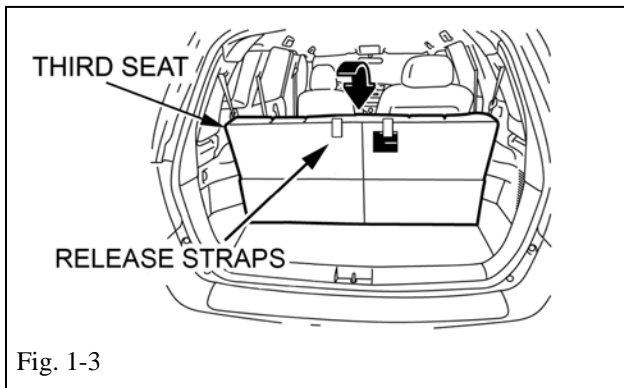


**NOTE:** For vehicles equipped with power seats, perform procedures described in Front Power Seat Removal steps 9a through 9g2 before removing the negative battery cable.

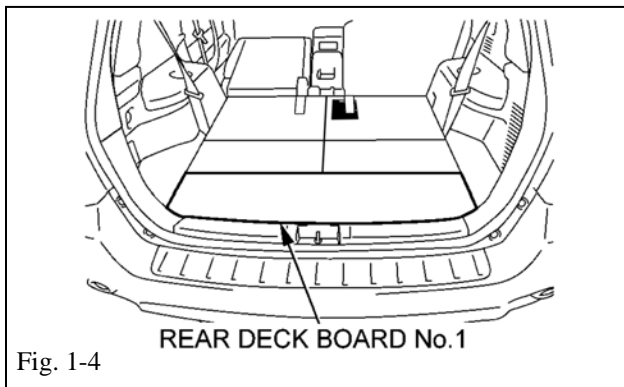


**CAUTION:** Do not disconnect the connectors under the seats unless the negative battery cable is removed!

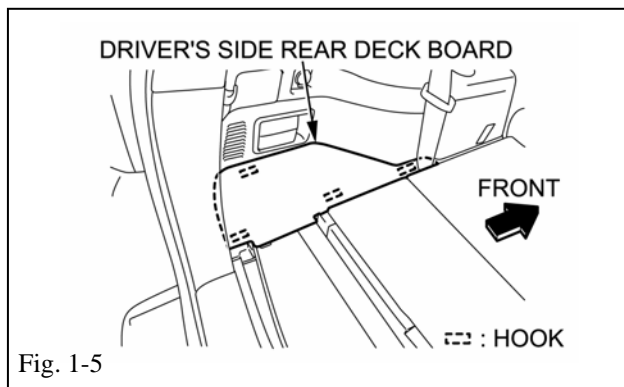




- (c) For vehicles with third seat, move the third seat forward by pulling the release straps. (Fig. 1-3)

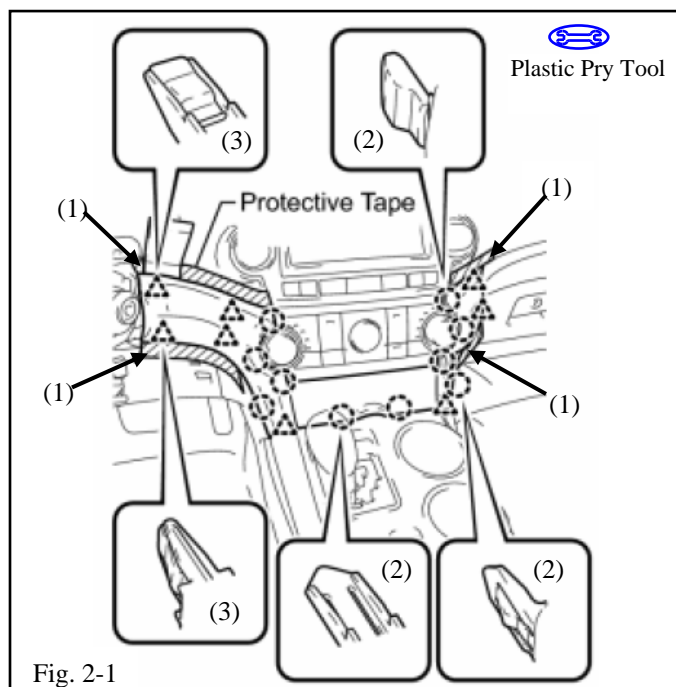


- (d) Remove rear deck board No.1 (Fig. 1-4)



- (e) Remove driver side rear deck board. (Fig. 1-5)

- (f) Cover the 2nd row seats and the interior of vehicle using seat covers and blankets.



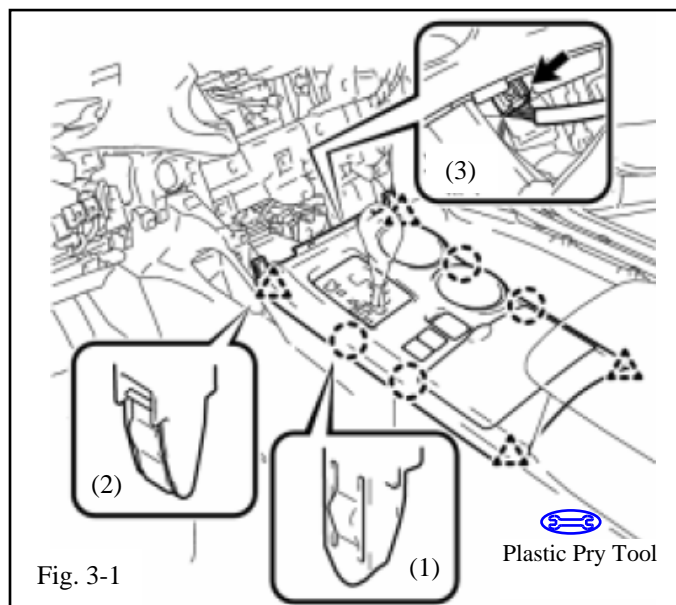
## 2. Remove Center Instrument Cluster Finish Panel Assembly

### Center Instrument Cluster Finish Panel Assembly

- (a) Apply protective tape (1) to the areas shown. (Fig. 2-1)
- (b) Using a plastic pry tool, disengage the ten claws (2) and eight clips (3) starting from the upper part of the Center Instrument Cluster Finish Panel Assembly. (Fig. 2-1)

**NOTE:** Do not pull on the small storage compartment lid. Doing so may cause damage.

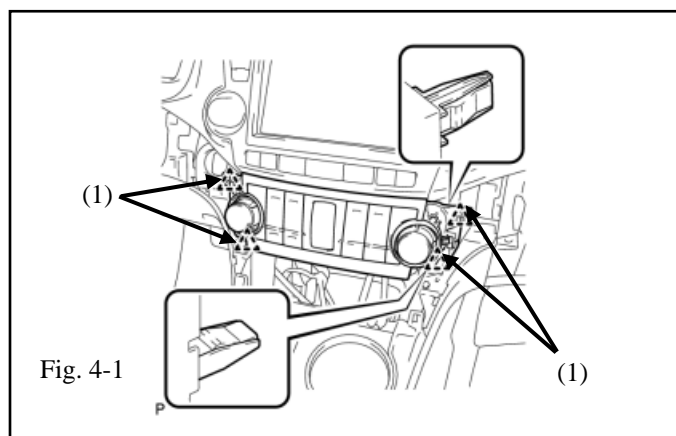
- (c) Disconnect each connector and remove the Center Instrument Cluster Finish Panel Assembly.



## 3. Remove Upper Console Panel Sub-Assembly

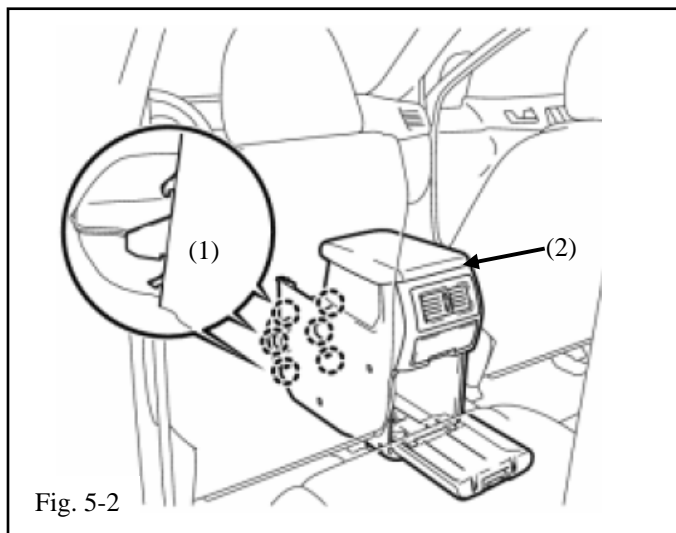
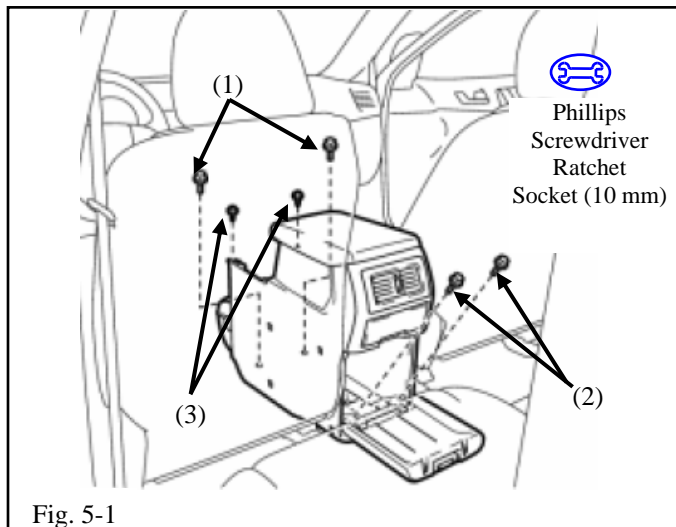
### Upper Console Panel Sub-Assembly

- (a) Using a plastic pry tool, disengage the four claws (1) and four clips (2). (Fig. 3-1)
- (b) Disconnect the connector (3) from the underside and remove the Upper Console Panel Sub-Assembly. (Fig. 3-1)



## 4. Remove Air Conditioning Control Assembly

- (a) Disengage the four clips (1) and remove the air conditioning control assembly. (Fig. 4-1)
- (b) Disconnect the connector.



## 5. Remove Console Box Assembly

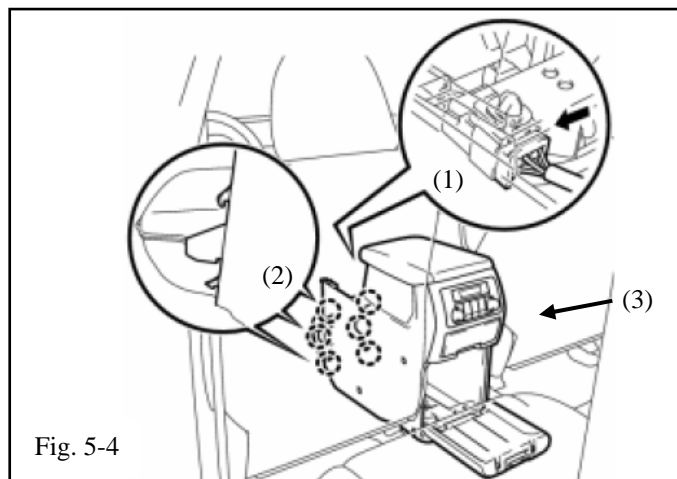
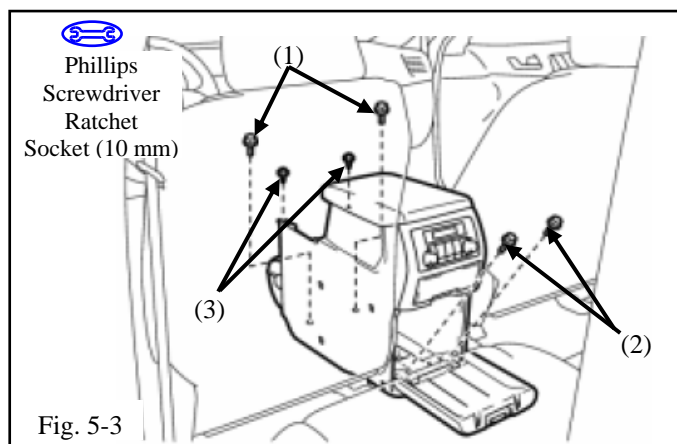
Console Box Assembly (for vehicles without Rear Air Conditioning System)

**NOTE:** For vehicles with Rear Air Conditioning System proceed to step (f).

**NOTE:** For vehicles equipped with a USB port for audio, perform steps 6 and 7. For vehicles not equipped with a USB port for audio, go directly to step 8.

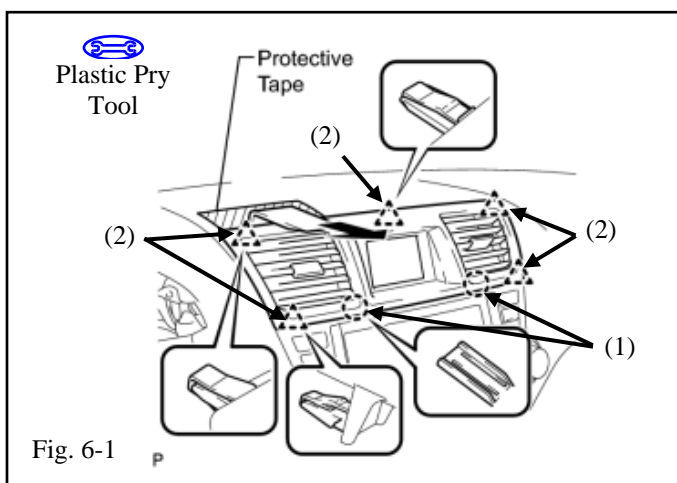


- Open rear console storage box door and remove the table.
- Remove two bolts (1) from the forward side of the console box and then the two bolts (2) from rear side. (Fig. 5-1)
- Using a Phillips screwdriver, remove two screws (3). (Fig 5-2)
- Disengage the six claws (1) and remove the console box assembly (2). (Fig. 5-2)
- Proceed to step 6.



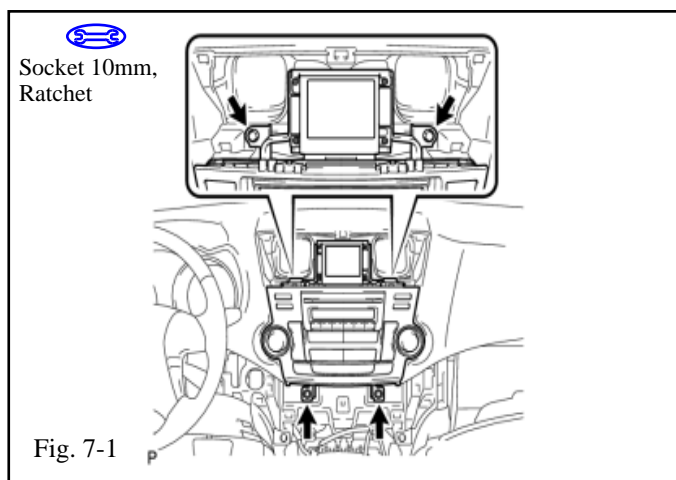
Console Box Assembly (for vehicles with Rear Air Conditioning System)

- (f) Open rear console storage box door and remove the table.
- (g) Remove two bolts (1) from the forward side of the console box and then the two bolts (2) from rear side. (Fig. 5-3)
- (h) Using a Phillips screwdriver, remove two screws (3). (Fig. 5-3)
- (i) Disconnect the connector (1). (Fig. 5-4)
- (j) Disengage the six claws (2) and remove the console box assembly (3). (Fig. 5-4)



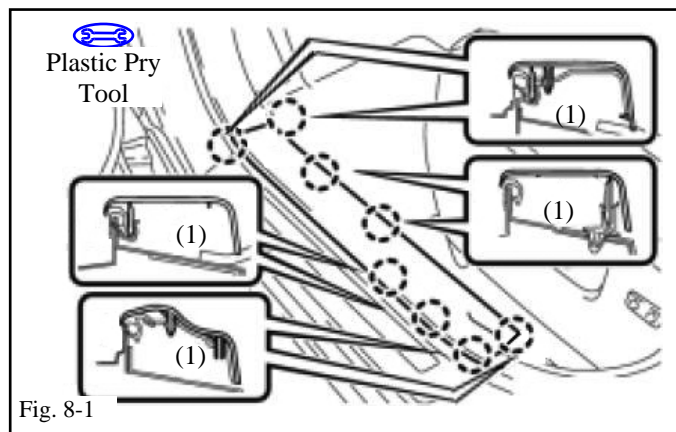
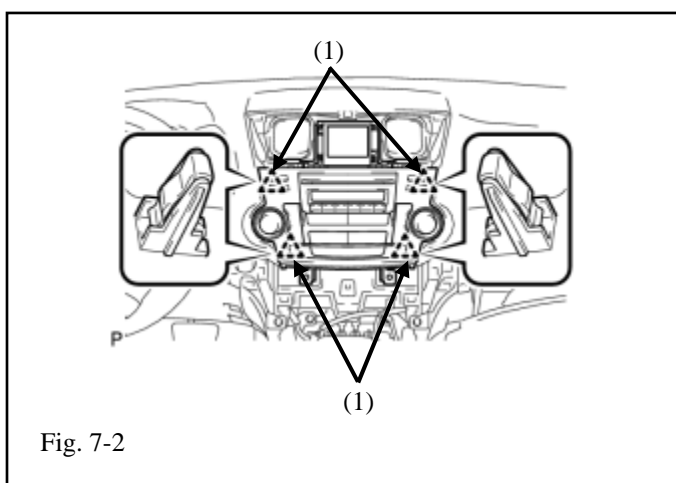
## 6. Remove Center Instrument Panel Registry Assembly (for USB equipped vehicles only)

- (a) Apply protective tape to the areas shown. (Fig. 6-1)
- (b) Using a plastic pry tool, disengage the two claws (1) and five clips (2). (Fig. 6-1)
- (c) Remove the center instrument panel registry assembly as shown. (Fig. 6-1)



## 7. Remove Radio Receiver Assembly with Bracket (for USB equipped vehicles only)

- Remove the four bolts. (Fig. 7-1)
- Pull the Radio Receiver Assembly with Bracket toward the rear of the vehicle and disengage the four clips (1). (Fig. 7-2)
- Disconnect each connector and remove the Radio Receiver Assembly with Bracket.



## 8. Front Door Scuff Plate and Cowl Cover Removal and Floor Carpet Preparation (Driver Side only)

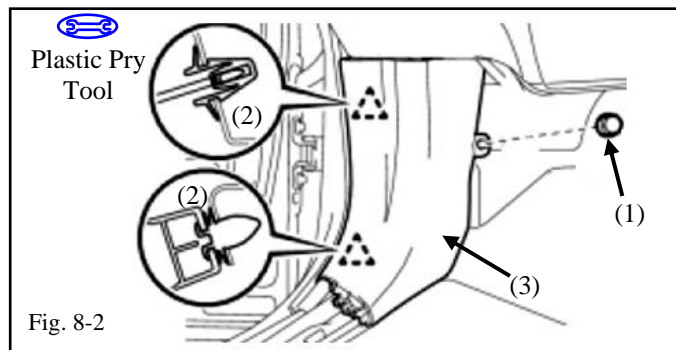
- Remove the Driver Side Front Door Scuff Plate (Fig. 8-1) and Cowl Cover. (Fig. 8-2)

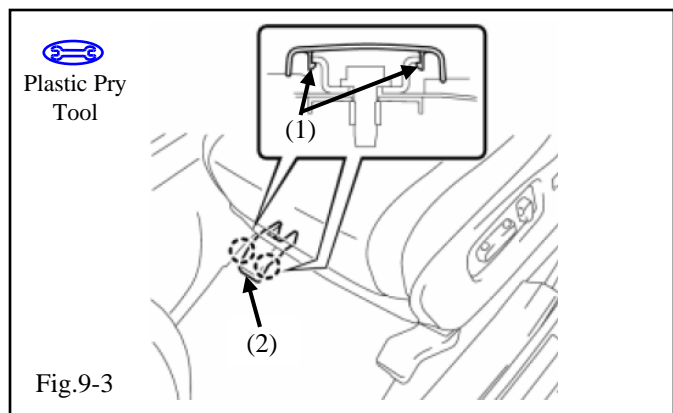
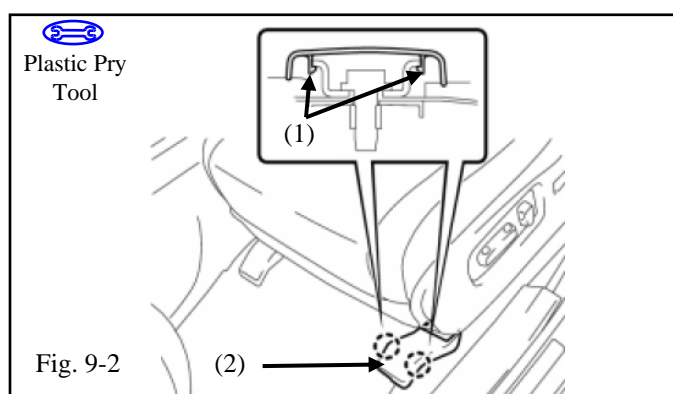
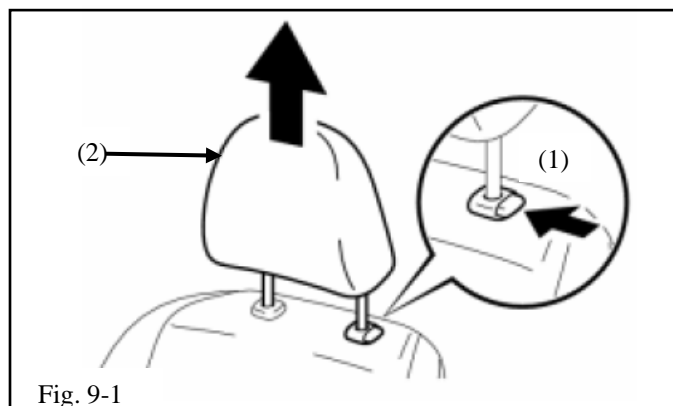
### Front Door Scuff Plate Removal

- Using a plastic pry tool, detach the eight claws (1) to remove the door scuff plate (2). (Fig. 8-1)

### Cowl Cover Removal

- Remove one twist clip (1). (Fig. 8-2)
- Detach two clips (2) to remove the Cowl Cover (3) using a plastic pry tool. (Fig. 8-2)





## 9. Front Driver and Passenger Seat Removal



**CAUTION:** For vehicles with power seats, perform procedures described in steps (a) through (h-2) before removing the negative battery cable.



**CAUTION:** Do not disconnect the connectors under the seats unless the negative battery cable is removed!



**CAUTION:** Before beginning Step (h) wait for at least 90 seconds after disconnecting the negative cable to prevent the airbag from deploying.



**NOTE:** The procedures described below are for the both the front driver and passenger seats, unless otherwise specified.



**CAUTION:** The procedure described below can affect the SRS airbag system. Read the precautionary notices concerning the SRS airbag system before proceeding (See page RS-1 of the service manual).

(a) Press the headrest support button (1) and pull the headrest (2) up and remove. (Fig. 9-1)

(b) Remove Front Outer Track Cover



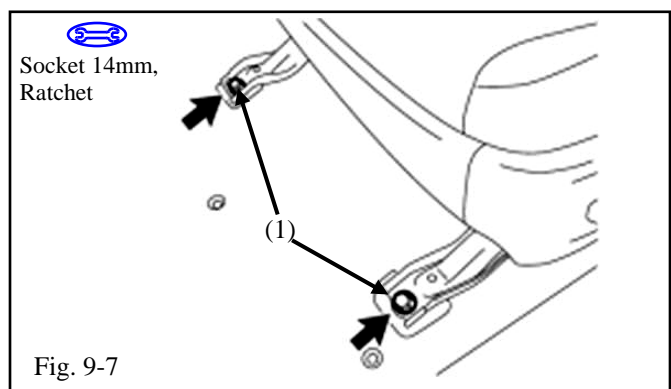
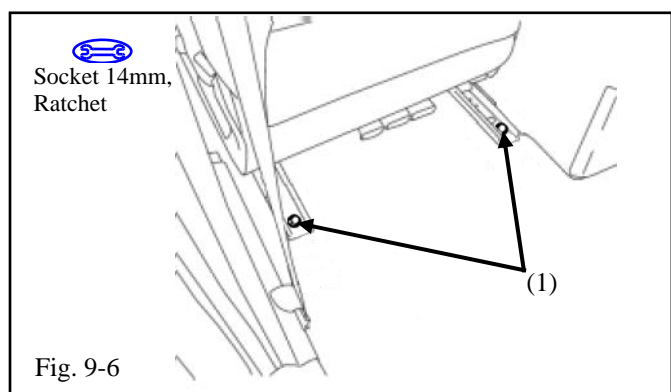
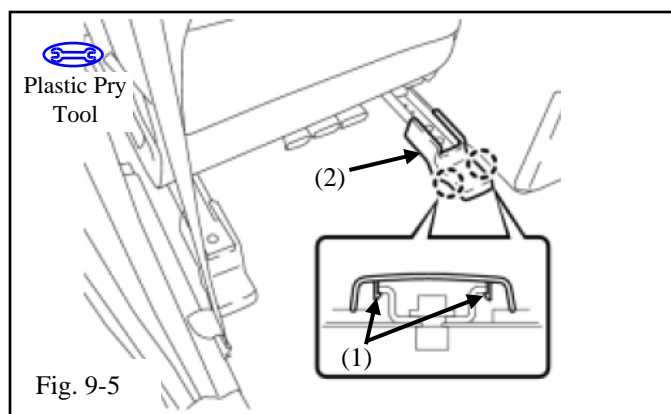
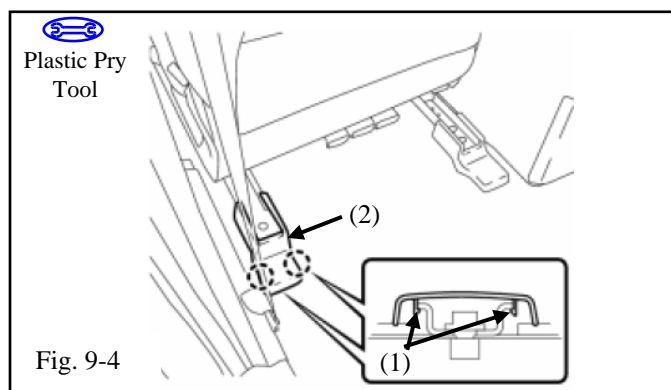
(1) Operate the power seat switch (slide switch) to move the seat to the rearmost position.

(2) Using a plastic pry tool, disengage the two claws (1) and remove the Front Outer Seat Track Cover (2). (Fig. 9-2)

(c) Remove Front Inner Track Cover



(1) Using a plastic pry tool, disengage the two claws (1) and remove the Front Inner Track Cover (2). (Fig. 9-3)



(d) Remove Rear Outer Track Cover

- (1) Operate the power seat switch (slide switch) to move the seat to the foremost position.



- (2) Using a plastic pry tool, disengage the two claws (1) and remove the Front Outer Seat Track Cover (2). (Fig. 9-4)

(e) Remove Rear Inner Track Cover



- (1) Using a plastic pry tool, disengage the two claws (1) and remove the Rear Inner Track Cover (2). (Fig. 9-5)



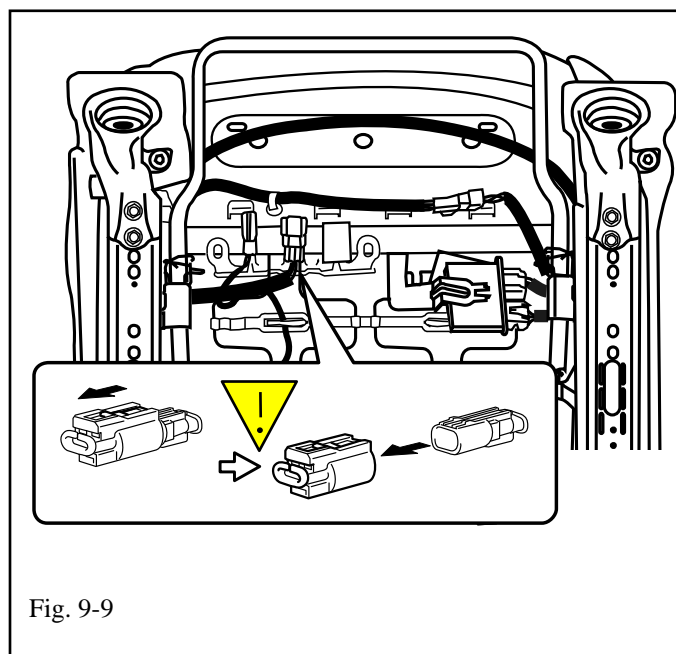
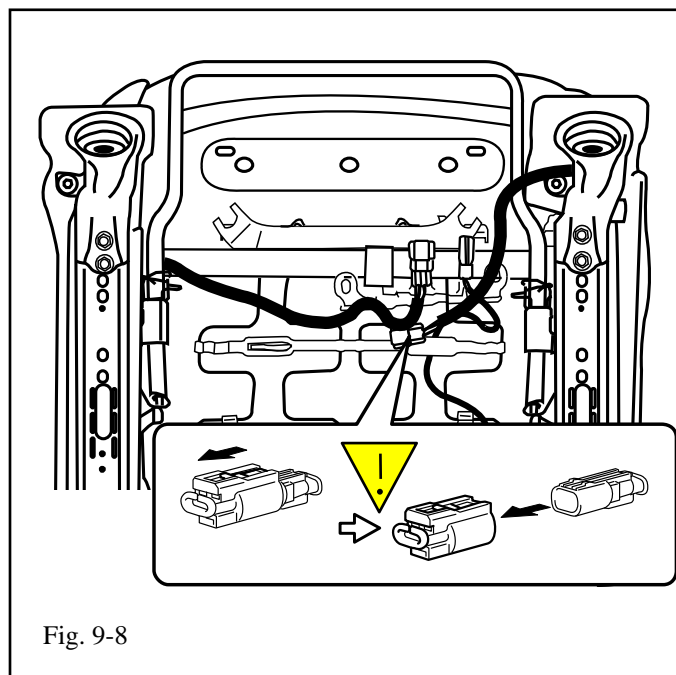
(f) Remove Rear Bolts

- (1) Using a ratchet, remove the rear two bolts (1). (Fig. 9-6)
- (2) Operate the power seat switch (slide switch) to move the seat to the foremost position.



(g) Remove Front Bolts

- (1) Using a ratchet, remove the front two bolts (1). (Fig. 9-7)
- (2) Operate the power seat switch (slide switch) to move the seat to the center position, and operate the power seat switch (reclining switch) to move the seatback to the upright position.
- (3) Disconnect the cable from the negative (-) battery terminal. (Fig. 1-1)



**NOTE:** Before tilting the seat backward use protective coverings on the seat mounting flange and trim.

- (4) Tilt the seat backward exposing the bottom side.  
(Fig. 9-8 , 9-9)

**CAUTION:** To prevent damage to the SRS airbag system, do not proceed with the following steps unless the negative battery cable is removed!

- (h) Disconnect the connectors under each seat:

- (1) For Passenger Side: (Fig. 9-8)  
(2) For Driver Side: (Fig.9-9)



- (i) Use protective seat feet covers or masking tape to prevent scratching vehicle during the removal and reinstallation.

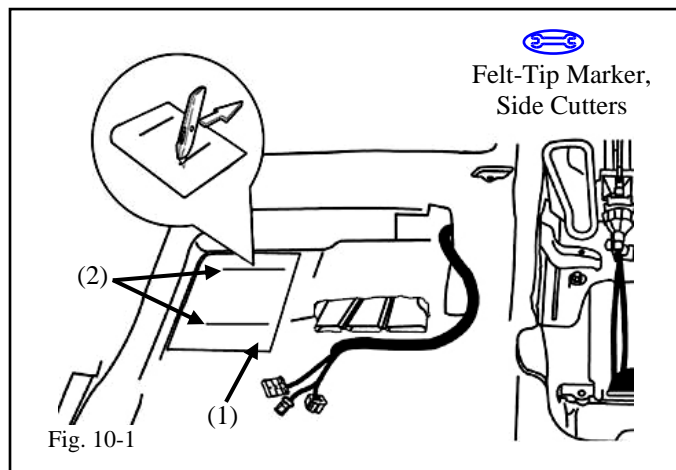
- (j) Remove the front seats and store on protective blanket.



**CAUTION:** Place protective blanket on door entry. Be careful not to damage the vehicle door trim when removing the seats.



**NOTE:** During vehicle re-assembly, reinstall the front and back seat anchor bolts and torque to 27ft-lbf (37 N-m).



#### 10. Marking and Cutting the Floor Carpet for the AIM Bracket



- (a) Using the Carpet Cutting Template (1) mark the carpet on the driver side with a felt-tip marker in the two required locations (2) to be cut. (Fig. 10-1)



**CAUTION: Insert a hard surface barrier prior to cutting the carpet to protect the wire harness beneath the carpet.**

- (b) Using side cutters, cut the full length along the cutting lines on the template. (Fig.10-1)
- (c) Make sure the carpet is cut all the way through to the floor the full length of the cut lines.



**CAUTION: Be careful not to cut vehicle harness located under the carpet.**

Routing Passenger Side Extension Harness on Passenger Side

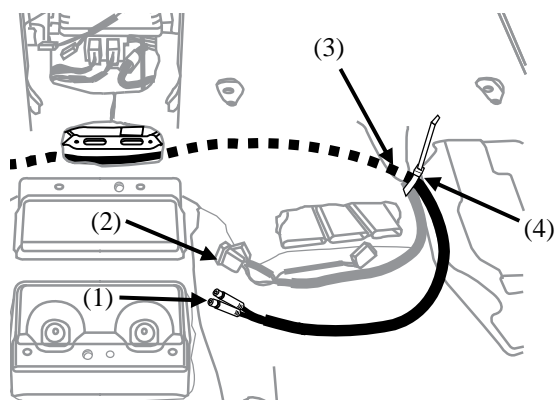


Fig. 11-1

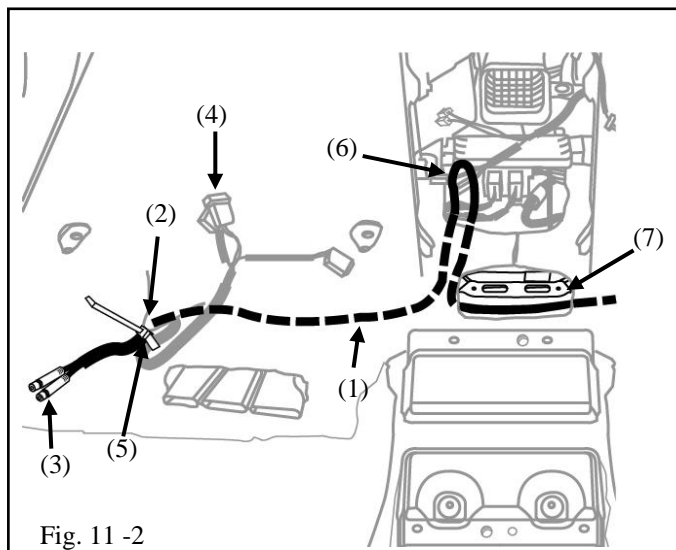


Fig. 11 -2

## 11. Extension Harness Routing



**CAUTION:** Do not secure accessory harness to any harness with S.R.S. "Yellow" harness routing.

### (a) Passenger Side Extension Harness Routing

- (1) Align the red and green connectors (1) on one end of the passenger side extension harness with the connectors (2) of the existing vehicle harness under the passenger seat location. (Fig. 11-1)
- (2) Route the passenger side extension harness along the existing vehicle harness under the carpet through the carpet opening (3) under the seat and secure with one 8" cable tie (4). (Fig. 11-1)
- (3) Continue routing the passenger side extension harness (1) across the center console under the carpet and out through the carpet opening (2) under the driver seat. (Fig. 11-2)
- (4) Align the red and green connectors (3) to the same length of the connectors (4) of the existing vehicle harness under the driver seat location. (Fig. 11-2)
- (5) Secure the passenger side extension harness (1) to the vehicle harness using one 8" cable tie (5) at the carpet opening. (Fig. 11-2)
- (6) Loop the excess passenger side extension harness (6) in the opening of the IP next to the mounting bracket (7) toward the driver side. (Fig. 11-2)



**NOTE:** Make sure the extension harness does not cross the mounting bracket.

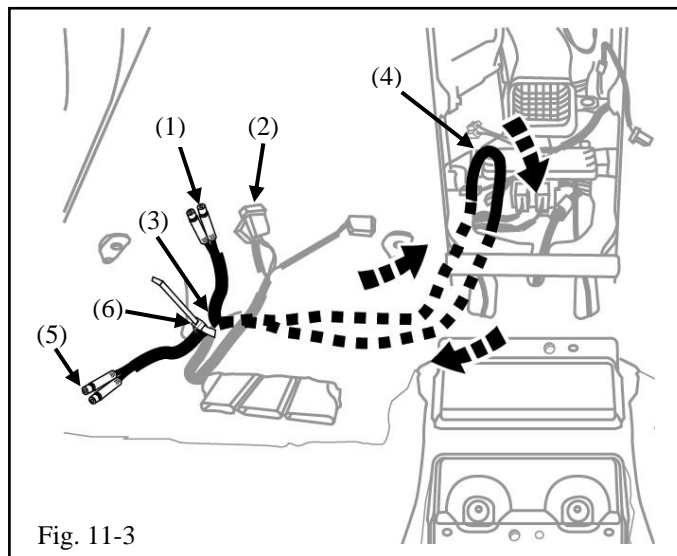


Fig. 11-3

**(b) Driver Side Extension Harness Routing**

- (1) Align the yellow and blue connectors (1) on one end of the driver side extension harness to the same length of the connectors (2) of the existing vehicle harness under the driver seat location. (Fig. 11-3)
- (2) Route the driver side extension harness along the existing vehicle harness under the carpet through the carpet opening (3) under the seat looping the excess harness (4) up into the opening of the IP. (Fig. 11-3)
- (3) Route the yellow and blue connectors (5) on the opposite end of the driver side extension harness to the same length of the connectors (2) of the existing vehicle harness under the driver seat location. (Fig. 11-3)



- (4) Secure the driver side extension harness loop to the vehicle harness using one 8" cable tie (6). (Fig. 11-3)

(c) Cut all excess lengths of cable ties.

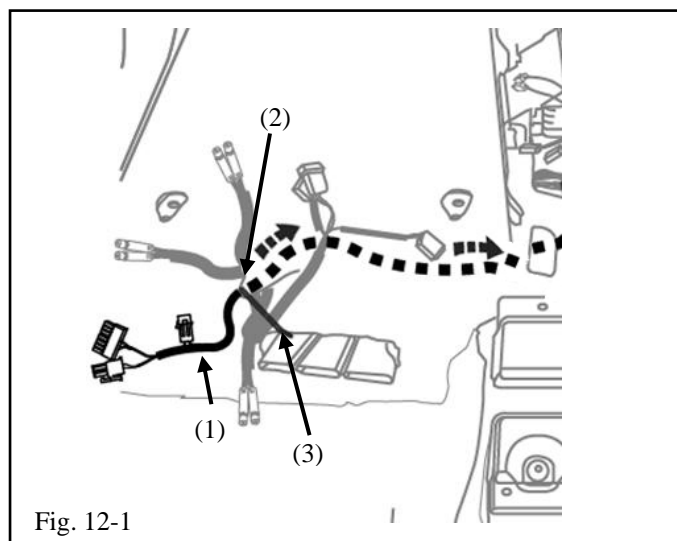


Fig. 12-1

**12. Installing the Power / Audio Interface Harness**

**(a) Routing the Power / Audio Interface Harness**

- (1) Route the Power/Audio Interface Harness (1) from the location where AIM Bracket will be installed to the carpet opening (2) under the driver seat and toward the center console. (Fig. 12-1)



- (2) Secure the Power/Audio Interface Harness (1) to the vehicle harness using one 8" cable tie (3) at the carpet opening (2). (Fig. 12-1)

- (3) Continue routing the Power/Audio Interface Harness (1) under the center console carpet and up through the opening of the IP next to the mounting bracket (2) toward the driver side. (Fig. 12-2)



**NOTE:** Make sure the Power/Audio Interface Harness does not cross the mounting bracket.



- (4) Using one 8" cable tie (3), bundle and secure the Power/Audio Interface Harness (1) and the passenger side extension harness loop (4) to the existing vehicle harness (5). (Fig. 12-2)

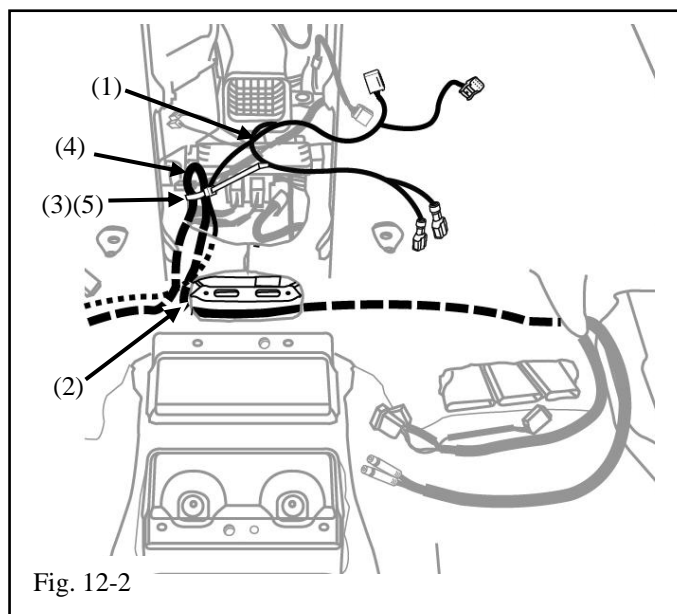
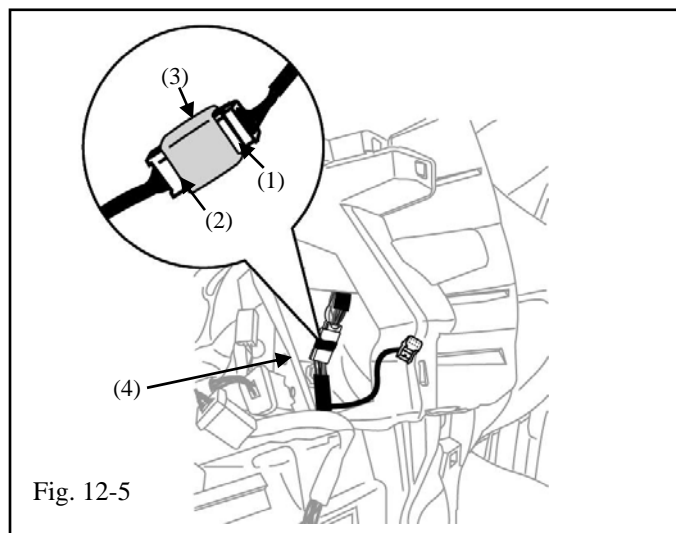
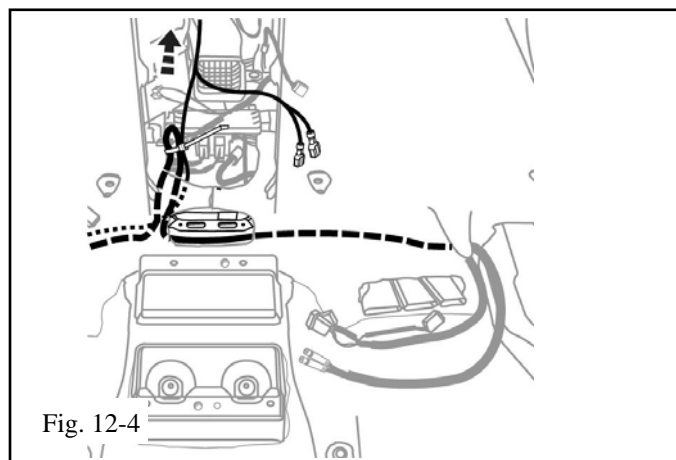
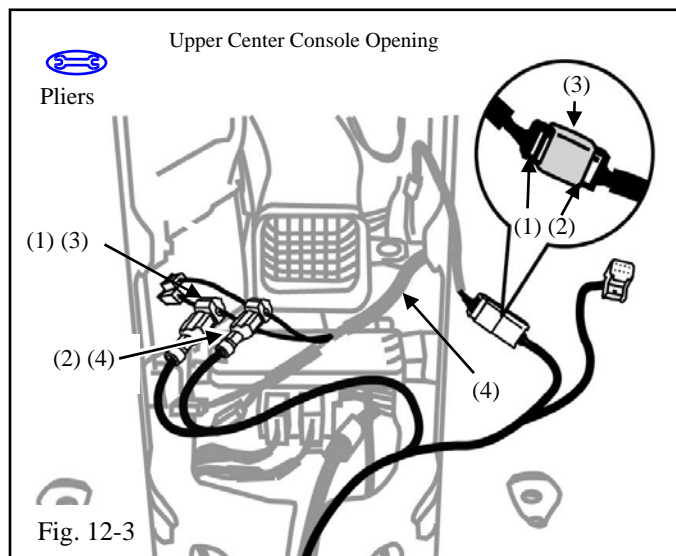


Fig. 12-2



For Vehicles with AUX interface option only:

- (5) Connect the audio interface connector (1) of the Power/Audio Interface Harness to vehicle AUX input connector (2). (Fig. 12-3)



- (6) Wrap the connectors with foam tape (3). (Fig. 12-3)



- (7) Using one wire tie, secure the foam tape wrapped connectors to the vehicle harness (4) in the opening of the IP. (Fig. 12-3)

- (8) Proceed to step 12b, Connecting the Power / Audio Interface.

For Vehicles with AUX/USB interface option:

- (9) Continue routing the AUX connectors on the Power/Audiovox Interface Harness to the radio opening. (Fig. 12-4)



- (10) Locate the AUX/USB connectors in the passenger side radio opening. Connect male connector (AUX input connector) (1) on the vehicle harness, to the female connector (2) from the audio interface harness and wrap the connectors with foam tape (3). (Fig. 12-5)



- (11) Using one wire tie, secure the foam tape wrapped connectors to the vehicle harness (4) in the opening of the IP.

(b) Connecting the Power / Audio Interface

- (1) Locate the 12V Power connector and install one T-Tap connector on the blue wire (1) and one T-Tap connector on the white w/ black stripe wire (2). (Fig. 12-3)

- (2) Install the T-Tap connectors. (Fig. 12-6)

- i. Place wire in open channel (1).
- ii. Fold connector body until element contacts wire (2).
- iii. Crimp connector closed with pliers (3).



- (3) Connect the male spade connector with the red wire (3) on the Power/Audio Interface Harness to the T-Tap secured to the vehicle's blue wire. (Fig. 12-3)



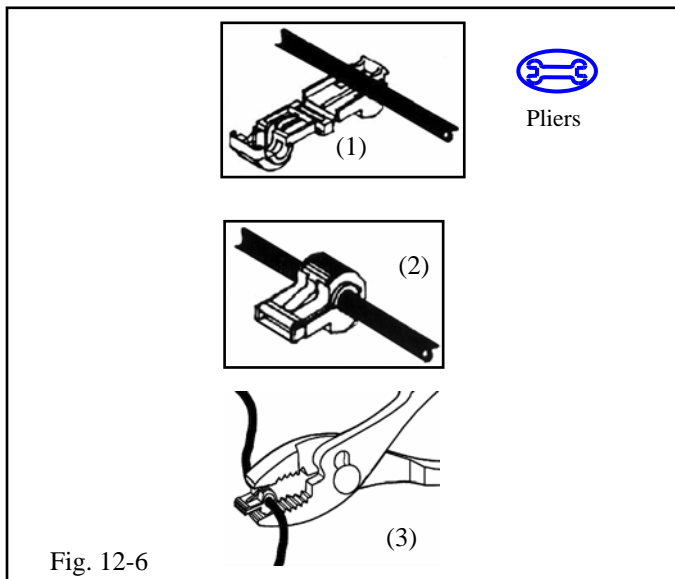
- (4) Connect the male spade connector with the black wire (4) on the Power/Audio Interface Harness to the T-Tap secured to the vehicle's white w/ black stripe wire. (Fig. 12-3)



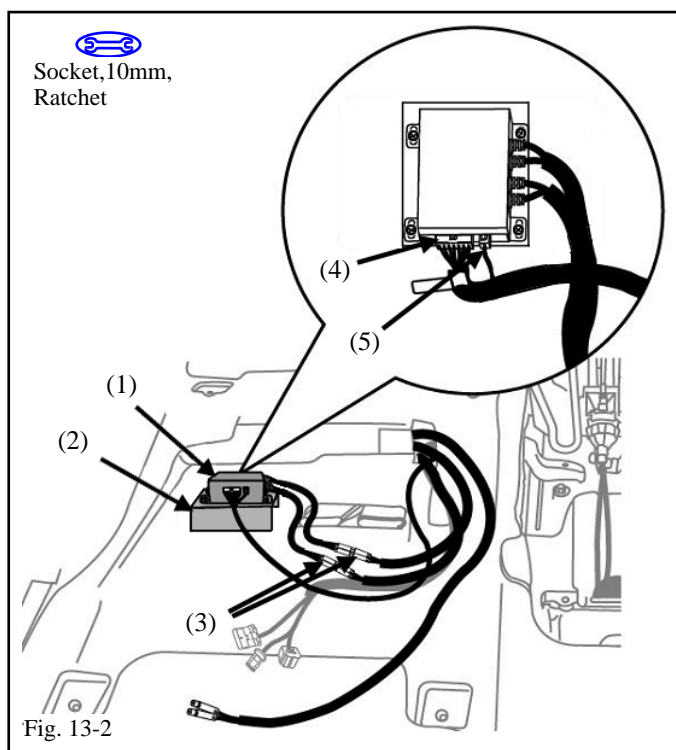
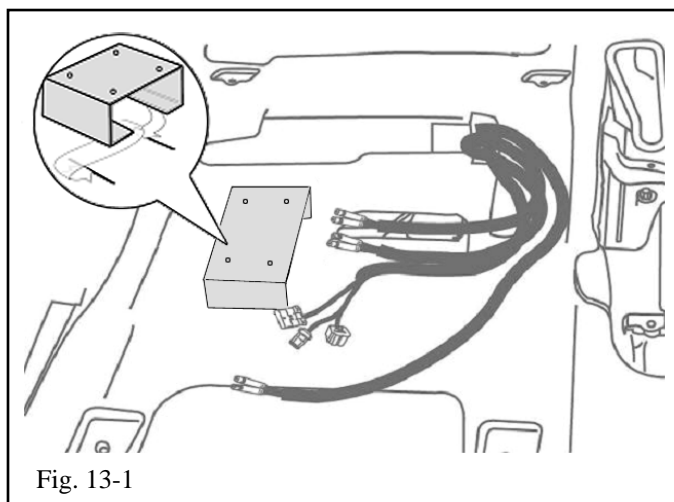
**CAUTION:** When reinstalling the center console be sure not to cross the harnesses and extension cables.



- (c) Cut all excess lengths of cable ties.



**13. Installing the Audio Interface Module (AIM) and Bracket**



(a) Clean the floor pan of the vehicle with VDC approved cleaner.

(b) Clean the bracket mounting feet with VDC approved cleaner.



**NOTE:** All tape mounting surfaces must be completely dry and installation temp must be between 60° - 100° F.

(c) Place one piece of the thick butyl tape on each foot of the AIM Bracket.



(d) Feed the AIM Bracket mounting feet through the carpet cuts in the mounting location. (Fig. 13-1)

(e) Remove the protective backing on the butyl tape pieces.

(f) Press the AIM Bracket down to the floor pan of the vehicle. (Fig. 13-1)



(g) Place the AIM (1) on the AIM Bracket (2) with the four wire harnesses facing the passenger side of the vehicle. Secure the AIM to the AIM Bracket using the four nuts. (Fig. 13-2)



(1) Install the four nuts and torque to 12in-lbf (1.4 N-m).



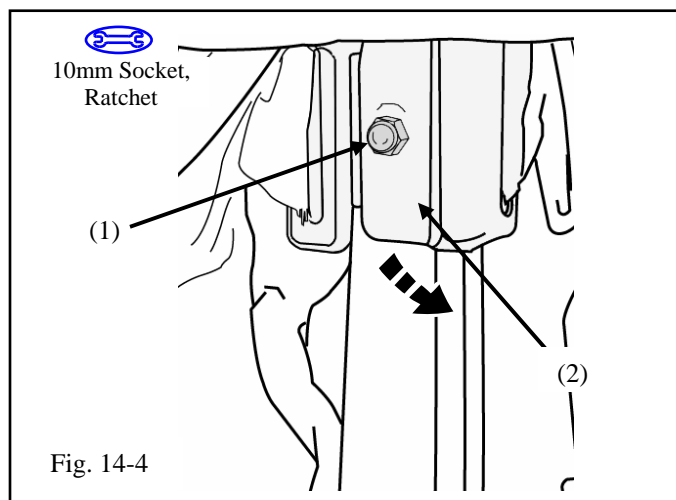
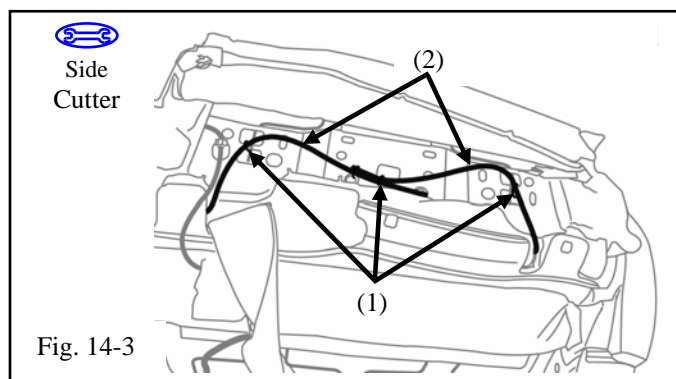
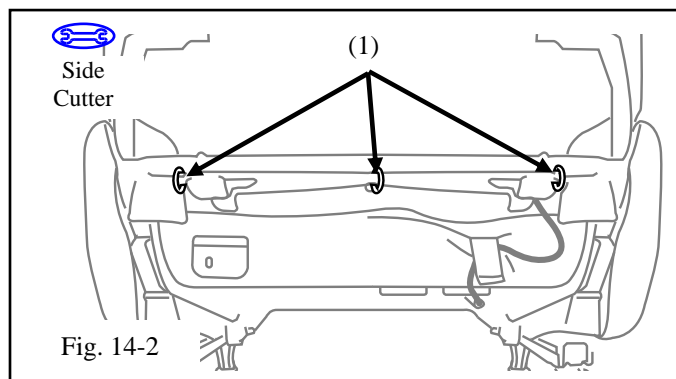
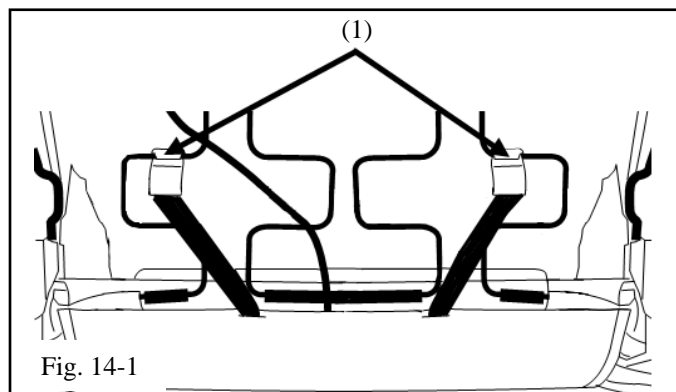
(h) Connect the four color coded connectors (3) on the AIM to the four color-coded extension harness connectors. (Fig. 13-2)



**NOTE:** Do NOT force connectors. Mating connectors are keyed for proper alignment.



(i) Connect the 2-pin power connector (4) and 14-pin audio connector (5) to the AIM. (Fig. 13-2)



#### 14. Passenger Side and Driver Side Seat Preparation

**STOP** (a) Undo the protective seat bottom flap by releasing the two elastic straps (1) secured under the seat and fold back. (Fig. 14-1)

**STOP** (b) Using a side cutter remove the three hog rings (1) from the bottom of the seat back cover (under the protective flap). (Fig. 14-2)

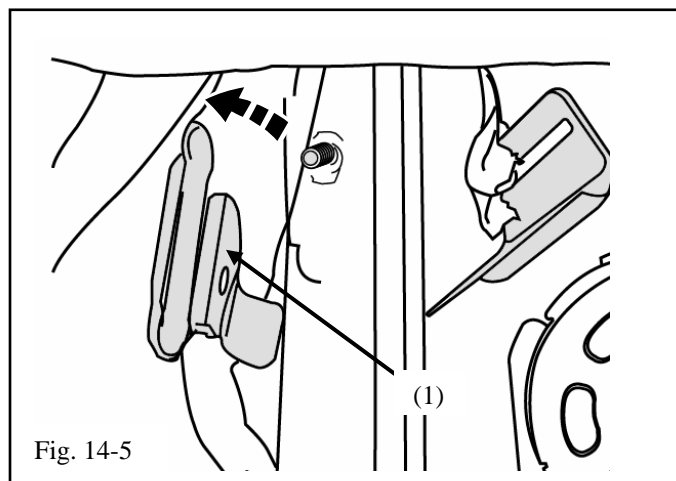
**STOP** (c) Pull the seat back-cover outward to expose the three hog rings (1). Using a side cutter remove the hog rings releasing the two tension cords (2) from the seat. (Fig. 14-3)

**STOP** **NOTE:** If vehicle is equipped with zipper covers and fabric dog ears, use a side cutter to remove the hog rings attaching the two dog ear flaps at the bottom of the seat back cover.

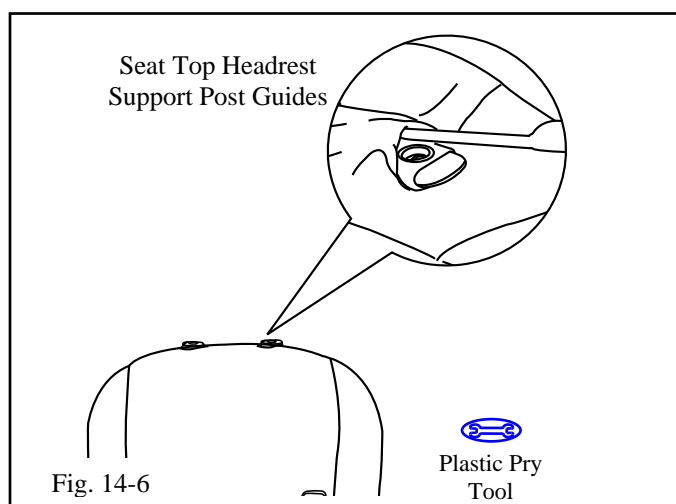
(d) Pull the side seat foam outward away from the seat frame to expose the S.I.A.B. strap. Remove the acorn nut (1) and detach the top of the airbag clamp assembly (2). (Fig. 14-4)



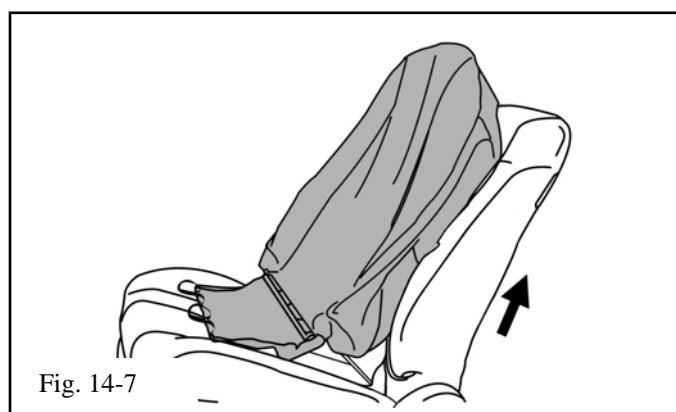
**NOTE:** Reinstall the S.I.A.B. strap assembly and torque to 49 in-lbf (5.5 N-m).



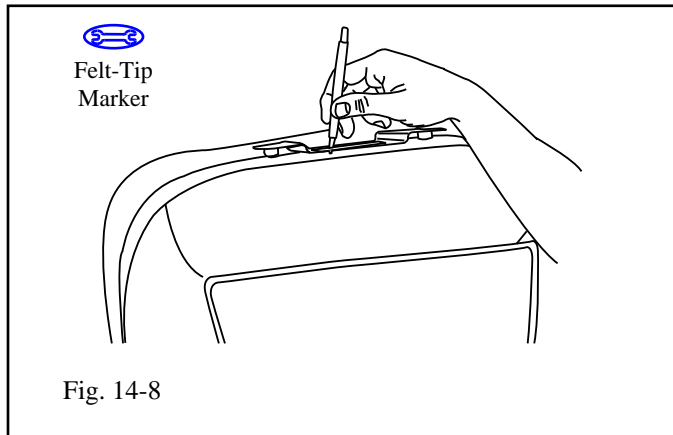
- (e) Detatch the bottom of the airbag clamp assembly  
(1) releasing the two piece S.I.A.B. strap from the mounting stud and spread apart. (Fig. 14-5)



- (f) Loosen the seat cover material under the headrest support post guides.
- (1) Insert a plastic pry tool under the seat cover material and seat foam. (Fig. 14-6)
- (2) Carefully lift and loosen the cover material and seat foam while rotating the plastic pry tool around the headrest support post guides. (Fig. 14-6)



- (g) Carefully ease both sides of the seat material upward (turning it inside out) lifting the sides of the seat cover material up over and off of the seat foam completely turning the seat cover material inside out. (Fig. 14-7)



(h) Marking the Foam Seat Structure.



(1) Install the Seat Top Marking Template onto the headrest post guides. (Fig. 14-8)



(2) Mark the opening in the Seat Top Marking Template with a felt-tip marker. (Fig. 14-8)

(3) Remove Seat Top Marking Template

(i) Foam Removal and Foam Cutting.



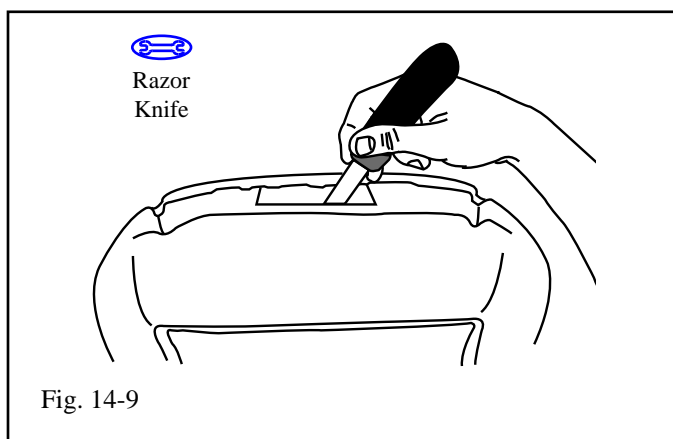
(1) Using a razor knife carefully cut the seat foam in the area indicated by the Foam Marking template. (Fig. 14-9)



(2) Remove the excess foam.



(3) Spread and lift the seat foam from the back up and off of the seat exposing the seat back framework.

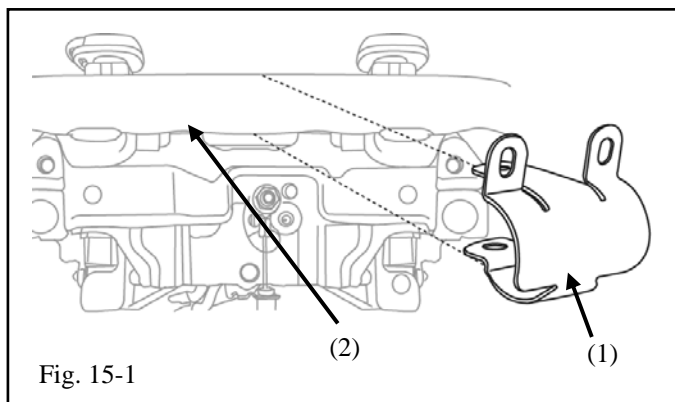


## 15. Seat Top Dock Bracket Mounting

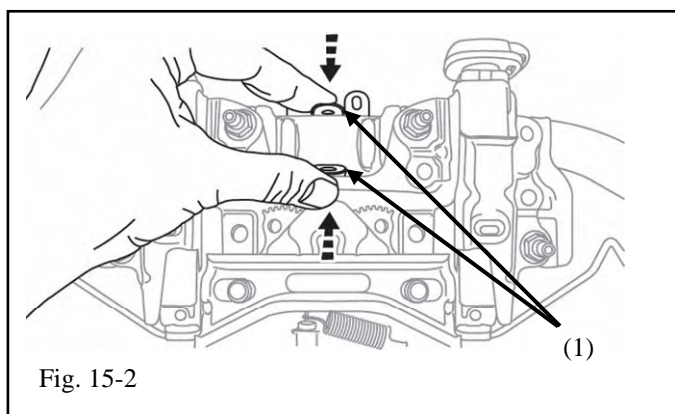
The following process is performed for both the driver and passenger seats.



- (a) Insert Lower Seat Top Dock Bracket (1) over top seat tube (2) from the rear of the seat with the open end facing the front of the vehicle. (Fig. 15-1)

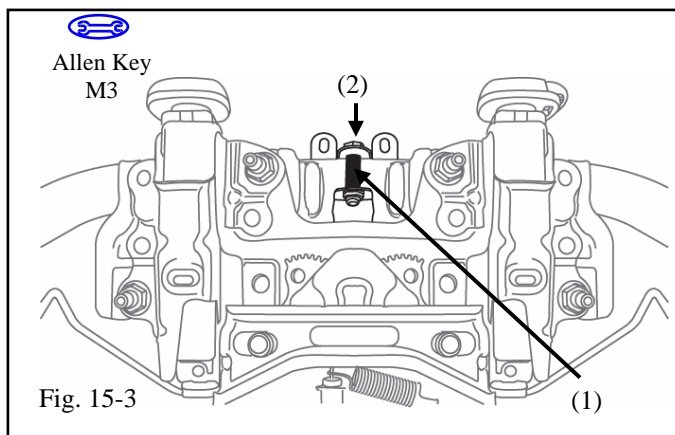


- (b) From the front side of the seat, squeeze the open ends (1) of the Lower Seat Top Dock Bracket to close the gap to fit the spacer included in the hardware kit in next step. (Fig. 15-2)



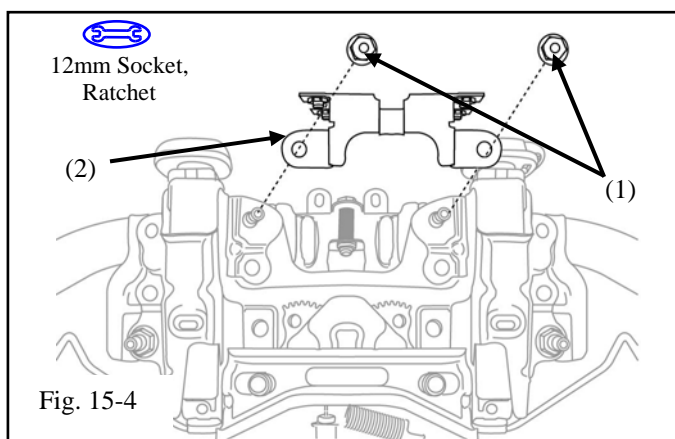
**CAUTION:** Do not use pliers to squeeze the bracket ends. Using pliers may damage the bracket or PEM nut.

- (c) From the front side of the seat, insert the spacer (1) between the open ends of the Lower Seat Top Dock Bracket. Using a M3 allen key, loosely install the 28mm screw (2). (Fig. 15-3)

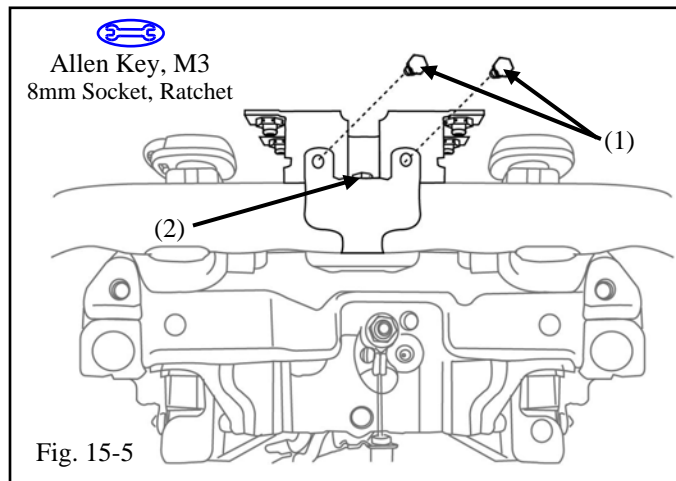


- (d) From the front side of the seat, using a ratchet, remove the two 12mm nuts (1) from active headrest restraint assembly. (Fig. 15-4)

- (e) Using a ratchet, install the Upper Seat Top Dock Bracket (2) onto the two active headrest restraint studs with the two 12mm nuts (1) removed in step (d). (Fig. 15-4)



**NOTE:** When reinstalling the two 12mm nuts, torque to 15 lbf (20 N-m).



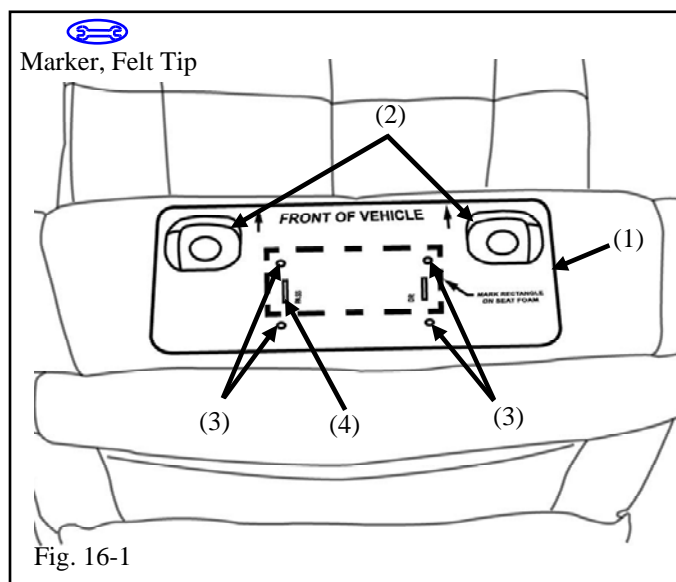
- (f) From the rear side of the seat, install two 8mm screws (1) to fasten the Upper and Lower Seat Top Dock Brackets together. (Fig.15-5)

**NOTE:** When installing the two 8mm screws, torque to 25 in-lbf (2.8 N-m).

- (g) Using an M3 allen key tighten the 28mm screw (2) between the open ends of the Lower Seat Top Dock Bracket. (Fig. 15-5)

**NOTE:** When installing the one 28mm screw, torque to 25 in-lbf (2.8 N-m).

- STOP** (h) Spread the seat foam and slide it back onto the framework and pull the seat material down.
- STOP** (i) Make sure the seat material is pulled tight over the seat top, use a plastic pry tool to refit the foam and seat material around the headrest support post guides.



## 16. Seat Top Dock Installation-Passenger Side

### (a) Marking the Top of the Seat


- (1) Install the Seat Top Marking Template (1) over the headrest post guides (2). (Fig. 16-1)
- (2) Mark the four circles (3) and the slot marked PASS (4) with a felt tip marker. (Fig. 16-1)
- (3) Remove the template.

### (b) Cutting the Top of the Seat Material

- (1) Using a razor knife carefully cut a small "X" in the seat material and the seat foam using the four marked circles as a guide.

### (c) Route the passenger side seat top dock harness (red and green color coded connectors) from the seat top dock down to the bottom of the seat. (Fig. 16-2)

### (d) Attach the seat top dock using four 25mm screws (1). (Fig. 16-2)

-  (1) Install the plastic seat top dock screws and torque to 15 in-lbf (1.7N-m).

### (e) Snap the plastic seat top dock cover on the seat top dock.

### (f) Using one piece of foam tape (1) secure the harness to the seat top framework. (Fig. 16-3)

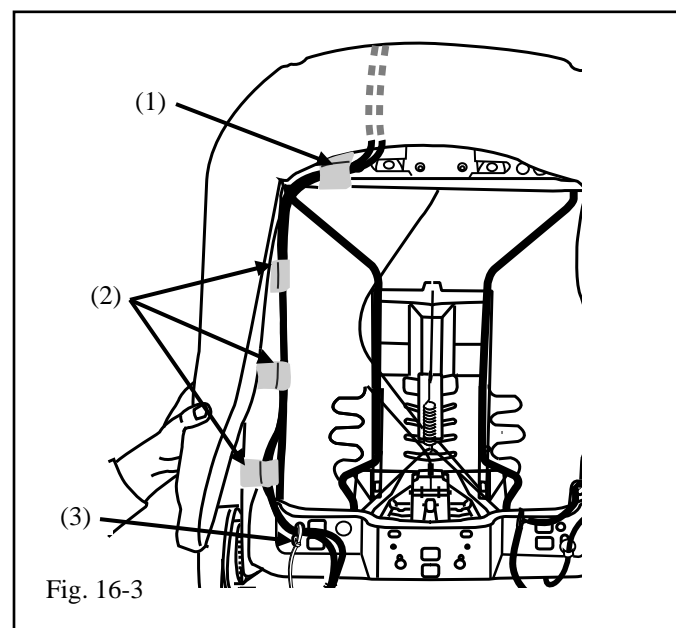
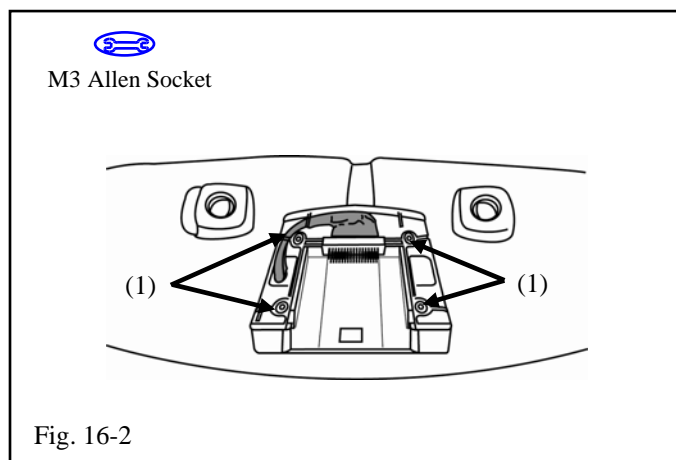
### (g) Attach the harness to the seat back side support frame using three more pieces of foam tape (2) and a cable tie (3). (Fig. 16-3)

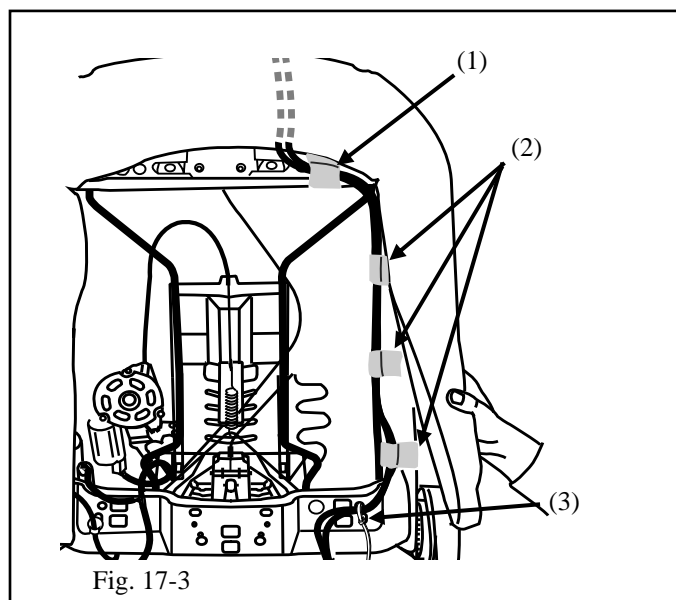
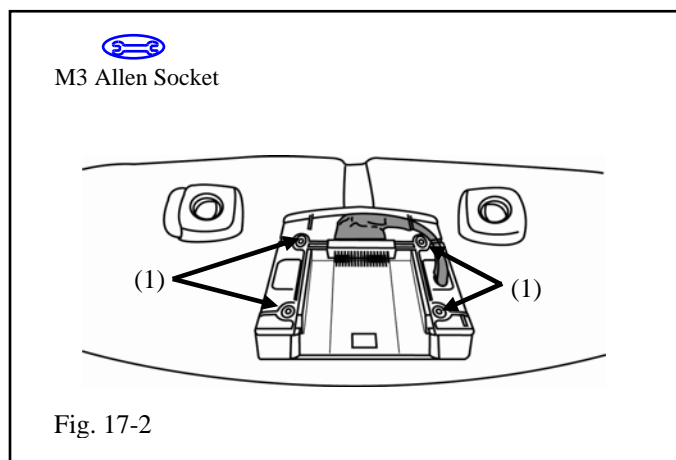
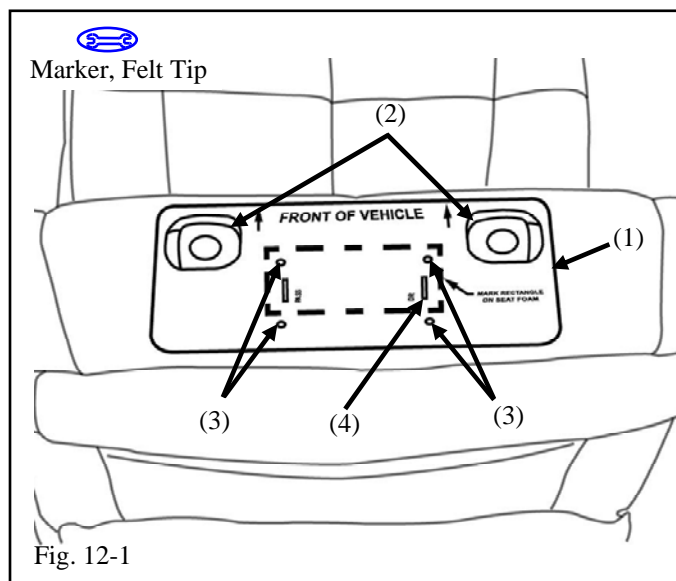


**NOTE:** Do NOT attach harness to the Airbag Module.

### (h) Re-assemble the passenger seat cover material the remaining 1/2 of the way down the seat.

### (i) Cut all excess lengths of cable ties.





## 17. Seat Top Dock Installation-Driver Side

### (a) Marking the Top of the Seat


- (1) Install the Seat Top Marking Template (1) over the headrest post guides (2). (Fig. 17-1)
- (2) Mark the four circles (3) and the slot marked DR (4) with a felt tip marker. (Fig. 17-1)
- (3) Remove the template.

### (b) Cutting the Top of the Seat Material

- (1) Using a razor knife carefully cut a small "X" in the seat material and the seat foam using the four marked circles as a guide.

### (c) Route the driver side seat top dock harness (blue and yellow color coded connectors) from the seat top dock down to the bottom of the seat. (Fig. 17-2)


### (d) Attach the seat top dock using four 25mm screws (1). (Fig. 17-2)

-  (1) Install the seat top dock screws and torque to 15 in-lbf (1.7 N-m).

### (e) Snap the plastic seat top dock cover on the seat top dock.

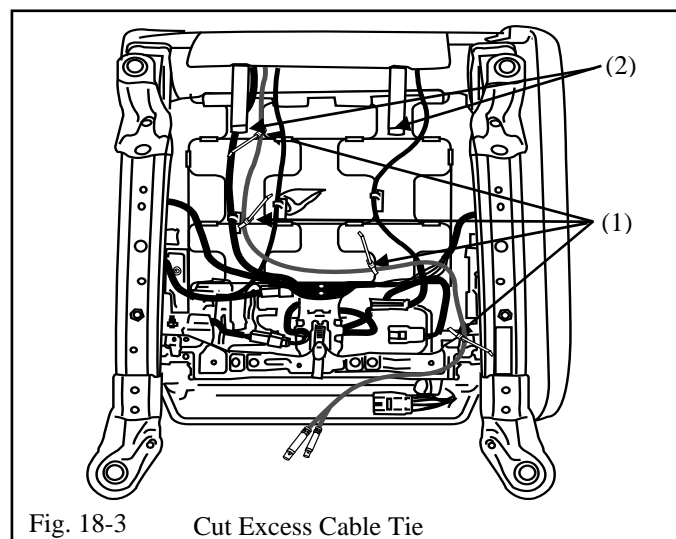
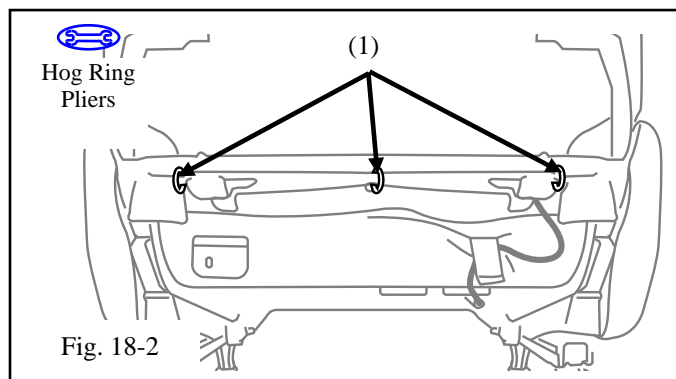
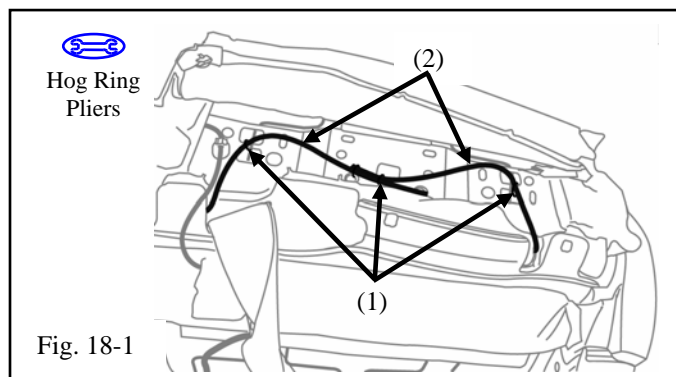
### (f) Using one piece of foam tape (1) secure the harness to the seat top framework. (Fig. 17-3)

### (g) Attach the harness to the seat back side support frame using three more pieces of foam tape (2) and a cable tie (3). (Fig. 17-3)

 **NOTE:** Do NOT attach harness to the Airbag Module.

### (h) Re-assemble the driver seat cover material the remaining 1/2 of the way down the seat.

### (i) Cut all excess lengths of cable ties.



## 18. Passenger Side and Driver Side Seat Reinstallation

- (a) Using a hog ring tool reinstall the three hog rings (1) to the side framework of the seat back cover. (Fig. 18-1)
- (b) Using a hog ring tool reinstall the three hog rings (1) attaching the seat back cover flap at the bottom of the seat. (Fig. 18-2)



**NOTE:** If vehicle is equipped with zipper covers and fabric dog ears, install one hog ring to each of the two dog ear flaps at the bottom of the seat back cover using a hog ring tool. Tuck any excess zipper flap under the seat foam.

- (c) Turn over the seats, exposing the wire harnesses routed on the bottom side.
- (d) Continue routing the cables under and toward the front of the seat, use four 8" cable ties (1) to attach the cables to the underside of each seat. (Fig. 18-3)
- (e) Reattach protective seat bottom flap hooks (2). (Fig. 18-3)
- (f) Reinstall the passenger side and driver side seats to the vehicle.

- (1) Return the passenger seat to the vehicle and connect the red and green seat cable to the red and green connectors on the extension cable.

- (2) Connect all other seat connectors.



- (3) During vehicle re-assembly, reinstall the front and back seat anchor bolts and torque to 27 ft-lbf (37 N-m).

- (4) Return the driver's seat to the vehicle and connect the blue and yellow seat cable to the blue and yellow connectors on the extension cable.

- (5) Connect all other seat connectors



- (6) During vehicle re-assembly, reinstall the front and back seat anchor bolts and torque to 27 ft-lbf (37 N-m).

**19. In Process Functional Test**

- (a) Temporarily reconnect battery negative cable.
- (b) Install a Seat Top DVD Electronics Unit into each seat top dock.
  - (1) Verify that both locks on the pivoting arm of the Seat Top DVD Electronics are engaged.
- (c) Turn ignition key to ACC position.
- (d) Press the power button on each of the DVD players. Verify the backlighting illuminates displaying the TOYOTA Splash Screen.
- (e) Insert a DVD into each of the DVD players. Verify that the DVD players accept the discs.



**NOTE:** The Remote Control is a dual function remote control that can control each Seat Top DVD Assembly independently. Press the “M1” button to code the remote control to control the Passenger Side Seat Top DVD Assembly. Press the “M2” button to code the remote control to control the Driver Side Seat Top DVD Assembly.

- (f) Press the play button on the remote control. Verify that the DVD video is displayed on each of the LCD monitors.



**NOTE:** On the wireless headphones, the 1-2 switch allows the user to select the audio from either the Passenger Side (CH 1) or the Driver Side (CH 2). When sitting in front of the passenger side screen, use the CH 1 switch setting. When sitting in front of the driver side screen, use the CH 2 switch setting.

- (g) Using the test wireless headphones, verify that audio from each of the DVD players can be heard through the headphones and with the correct channel settings.
- (h) Press the power button on the head unit and verify that the radio turns on.
- (i) Press the AUX button on the head unit and verify that the audio is heard from the DVD playing on the Passenger Side DVD.

- (1) Fully adjust the Audio Balance to the Passenger side of the vehicle and verify that the audio is heard.
- (2) Fully adjust the audio balance to the Driver side of the vehicle and verify that the audio is heard.
- (j) Disconnect negative battery terminal.
- (k) Reassemble the vehicle interior components and trim

## **20. Final Preparation**



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



- (b) Place the remote control and batteries in the glove box.



- (c) Place the headphones in the rear cargo area.



- (d) Reconnect negative battery terminal and tighten nut to 36 lbf-in (4.1 N-m).

- (e) Temporarily install short pin.

- (f) Perform the seat occupancy re-calibration procedure.



- (g) Re-initialize windows and doors.

- (h) Re-install the seat plastic protective covers on the driver and passenger seats.

**21. Zero Point Calibration & Sensitivity Check**

- (a) Connect the Techstream connector to the vehicle's diagnostic connector in the lower dash area.
  - (1) Turn ignition switch to ON position.
  - (2) Check for Airbag ECU trouble codes – if present then clear the DTCs.
  - (3) Perform the Occupancy Classification Zero Point Calibration and Sensitivity checks.



**NOTE:** Check for the latest version of the software on Toyota Information System (TIS) before setting up the Techstream.



**NOTE:** Ensure the software is the latest version.

- (b) Reset the power windows.
  - (1) Turn ignition key to ON position.
  - (2) Push down the power window switches of each door, and lower the windows halfway.
  - (3) Pull up the switches until the windows close and hold switches up for a further one (1) second (minimum).
- (c) Reset the power moon roof.
  - (1) Push and hold moon roof switch to close side until moon roof closes. Hold for a further two (2) seconds.
- (d) Clean up and remove any trash.



### Section III – Functional Verifications Check:

#### Accessory Function Checks

**Turn the ignition key to the ACC or Run position and turn the vehicle radio ON.**

- ☐ Press the power button on each of the DVD players.
- ☐ Insert a DVD into each of the DVD players.
- ☐ Press the play button on remote control.
- ☐ Press the Power button and the AUX button on the radio.
- ☐ Balance adjust
- ☐ Press and release the power button on the test wireless headphones to turn them on.
- ☐ Press the STOP button on the remote control.
- ☐ Press the EJECT button on each of the DVD players.
- ☐ Check all switches on the lower center I.P.

**Turn the vehicle radio OFF and turn the ignition key to the OFF position.**

#### Vehicle Function Checks

- ☐ Air Conditioner
- ☐ Fan
- ☐ Radio Back Light
- ☐ Emergency Flashers
- ☐ Check all switches on the lower center I.P.
- ☐ Diagnostic Codes – using Handheld Scan Tool
- ☐ AUX-ACCY Power Socket
- ☐ Cigarette Lighter

### Look For:

Verify the backlighting illuminates and displays the TOYOTA Logo.

Verify that the DVD accepts the discs.

Verify that DVD video is displayed on the LCD monitors.

Verify that audio from the Passenger Side DVD can be heard through the vehicle speakers.

Adjust the Audio Balance to the Passenger and Driver sides of the vehicle and verify that the audio is heard.

Verify that audio from the DVD can be heard through the headphones.

Verify that DVD discs stop playing.

Verify that DVD players eject the discs properly.

Verify that all switches function properly.

Functioning Air Conditioner.

Functioning Fan.

Functioning Radio Back Light.

Functioning Emergency Flashers.

Verify that all switches function properly.

Confirm that no diagnostic trouble codes are present.

Verify that AUX-ACCY functions properly.

Verify that Cigarette Lighter functions properly.