

Part Number: 08921-42900

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

Kit Contents

Item #	Quantity Req'd.	Description
1	1	Converter
2	1	Wire harness
3	1	Sub wire harness No.1
4	2	Plastic Tie (300mm)
5	21	Plastic Tie (150mm)
6	1	Plastic Tie
7	5	Packing
8	1	Bolt (M6)
9	2	Bolt (M5)
10	1	Connector clip
11	1	Nut (M6)
12	1	Owner's manual
13	1	Fuse (30A)
14	1	Sub wire harness No.2
15	1	Fuse (15A)
16	1	Label

Hardware Bag Contents

Item #	Quantity Req'd.	Description

Additional Items Required For Installation

Item #	Quantity Req'd.	Description

Conflicts

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Recommended Tools

Personal & Vehicle Protection	Notes
Safety Goggles	
Seat Covers	
Floor Protectors	
Special Tools	Notes
L.E.D. Tester	S.S.T. 00002-62195
Installation Tools	Notes
Torque Wrench	
Ratchet 3/8" Drive	
6" Extension	
8mm Socket	
10mm Socket	
14mm Socket	
Clip Removal Tool	
Nylon Removal Tool	
Nipper	
Screw driver	
Slot Precision Screw Driver	

Special Chemicals	Notes

General Applicability

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Recommended Sequence of Application

Item #	Accessory
1	Trailer Hitch*
2	Trailer Wire Harness

*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.

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 (52100105E)

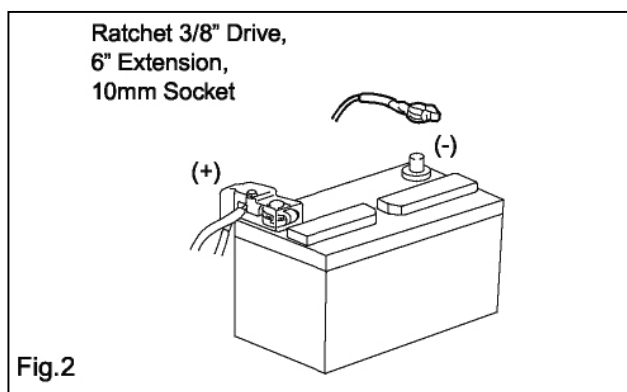
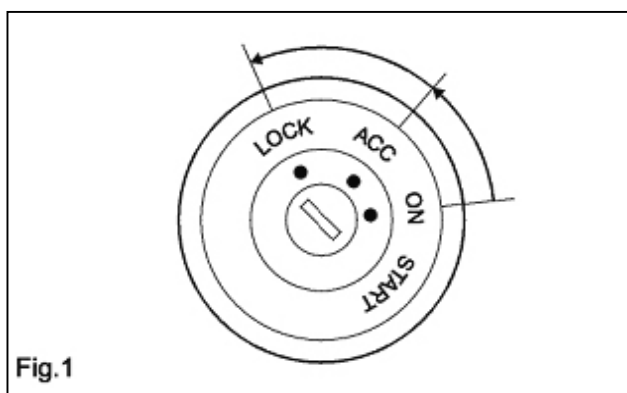
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure quality installation.

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

This document covers such items as:

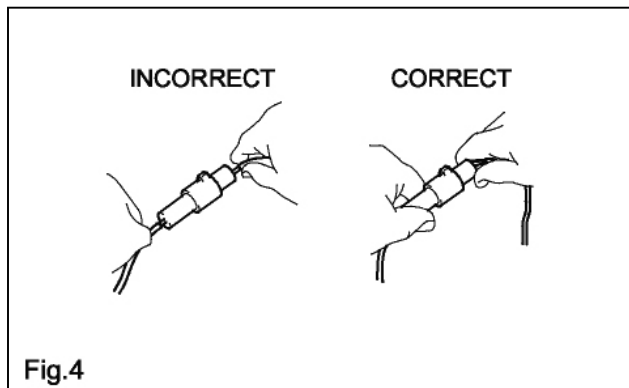
- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

Please see your Toyota dealer for a copy of this document



1. Supplemental Restraint System SRS

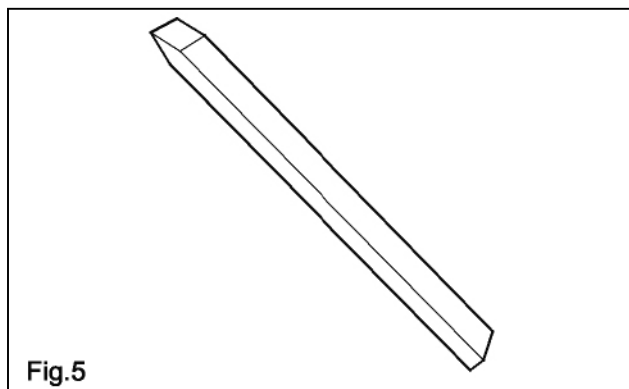
- (a) Failure to carry out procedures listed below could result in possible deployment of airbag, personal injury, or unnecessary repairs to SRS.
- (b) Turn the key switch to the LOCK position.
(Fig. 1)
- (c) Remove the key from the ignition switch.
- (d) Disconnect the negative battery cable.
(Fig. 2)
- (e) Never use a voltmeter to trouble shoot any of
Accidentally probing the connectors to the
SRS can lead to deployment of the airbag.
(Fig 3)
- (f) SRS wire harness loom/cover is bright
yellow in color.



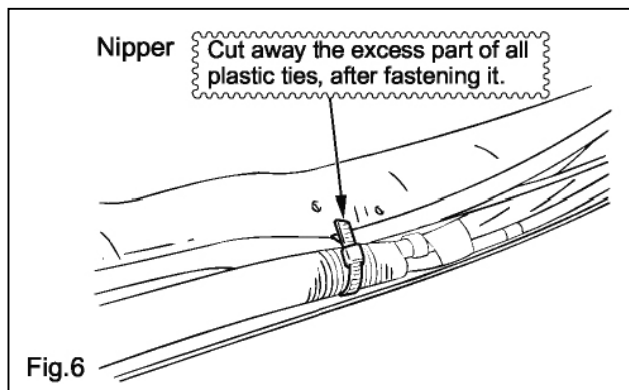
2. Wiring Precautions

- (a) DO NOT pull on vehicle wires and/or wireharness. To uncouple electrical connectors, pull only on the connector itself. (Fig. 4)
- (b) Use nylon ties and adhesive foam strips to secure the vehicle harness and the trailer wire harness.
- (c) Ensure all wires are properly insulated from ground.
- (d) When installing the trailer wire harness make sure it is not cut or perforated by any sharp metal objects.

3. General Practices and Procedures



- (a) Before starting installation, refer to the supplemental restraint system procedures in Section 1.
- (b) Take care not to scratch any part of the vehicle. Bind the tips of tools (clip remover, slot screw driver, etc.) with vinyl tape to prevent damage to any part of the car, or use a nylon removal tool (resin based prying tool). (Fig. 5)
- (c) Use a small parts container to store removed bolts and tapping screws so that they can be reassembled correctly.
- (d) Ensure seat/floor protectors are in position.
- (e) After fastening plastic ties, clip away all the excess of the ties using diagonal pliers. (Fig. 6)



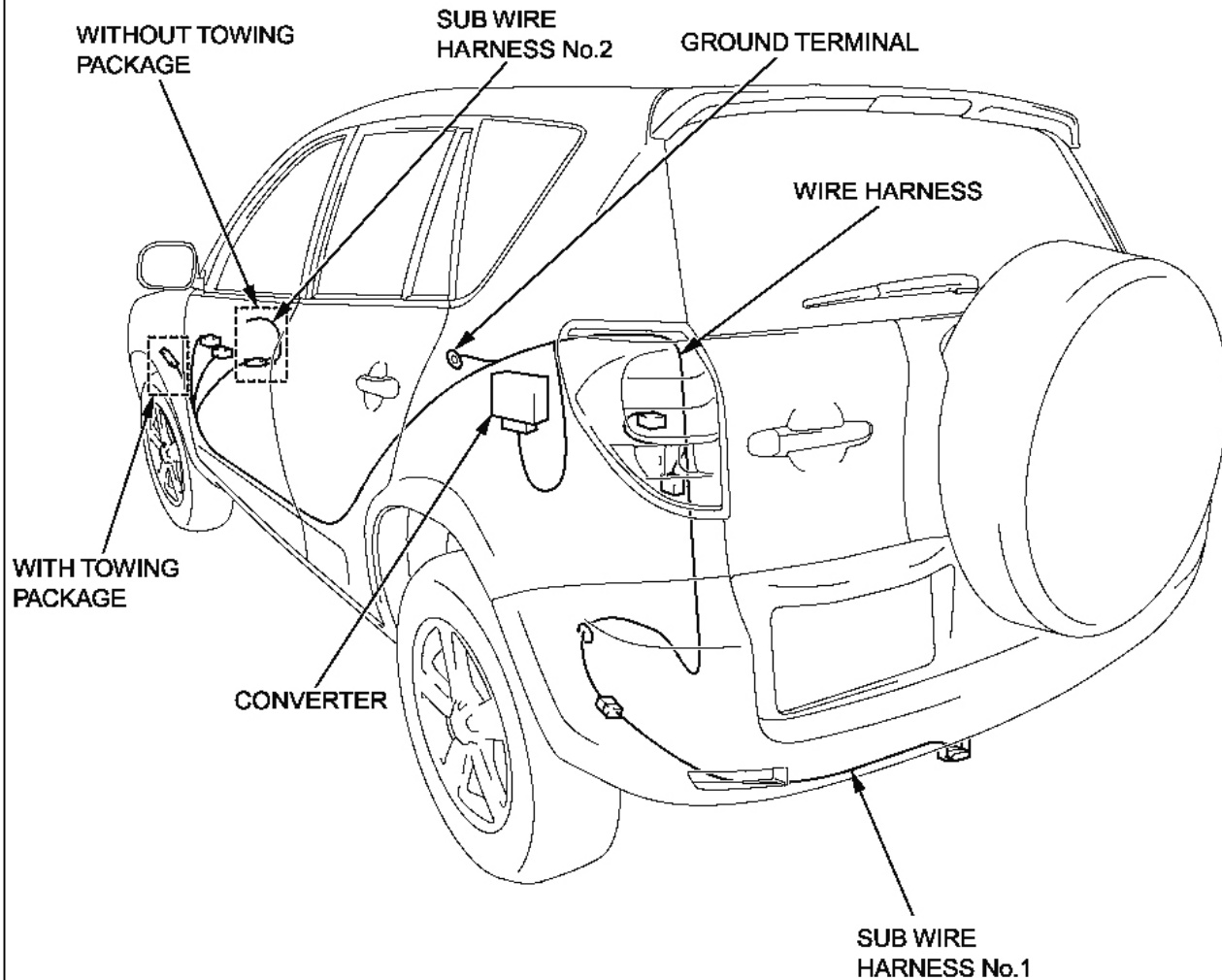


Fig.7

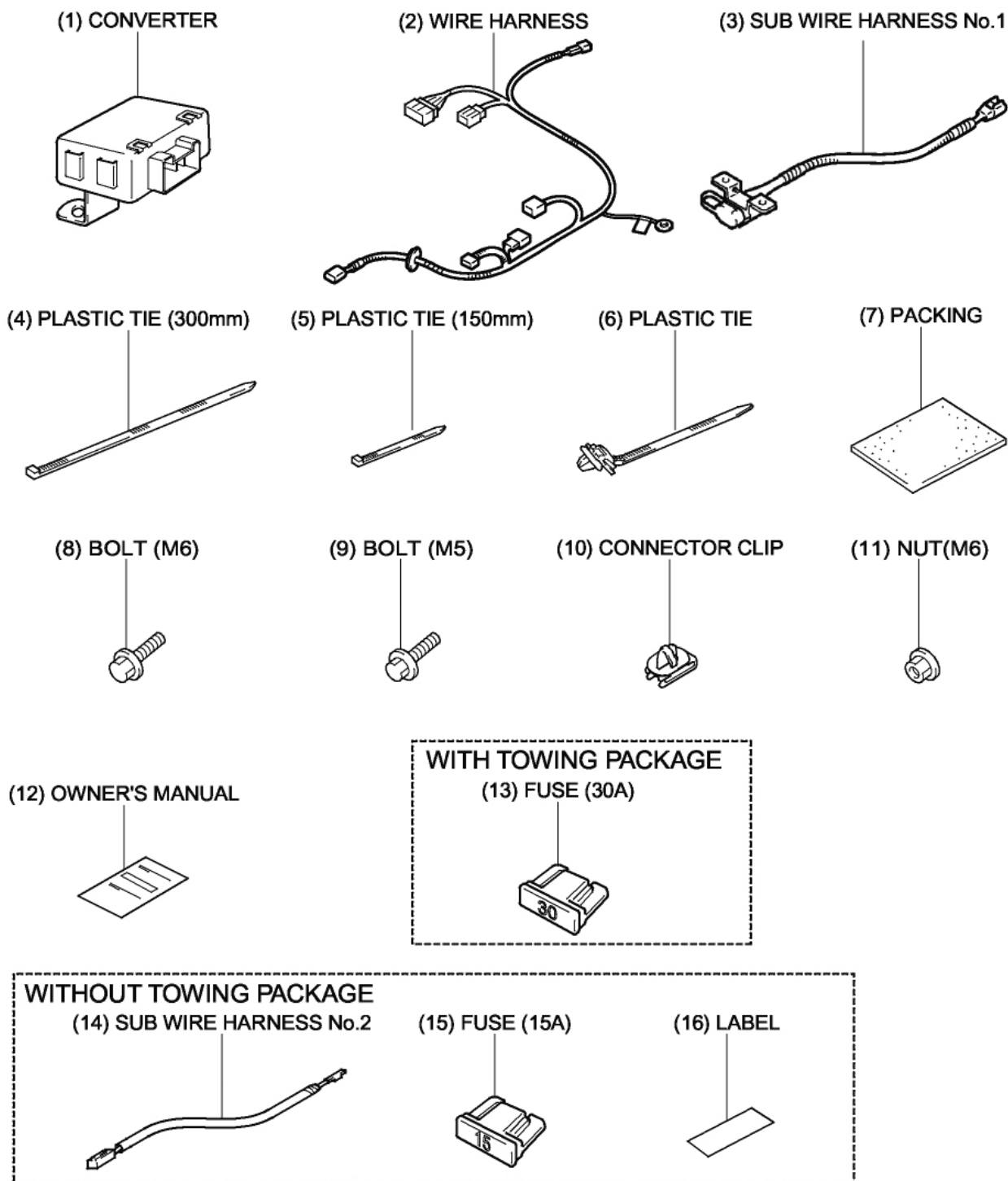
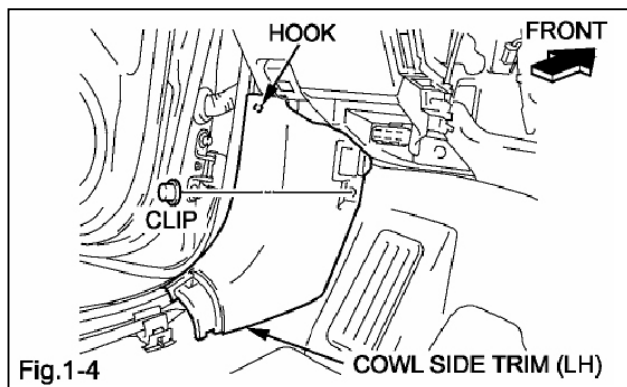
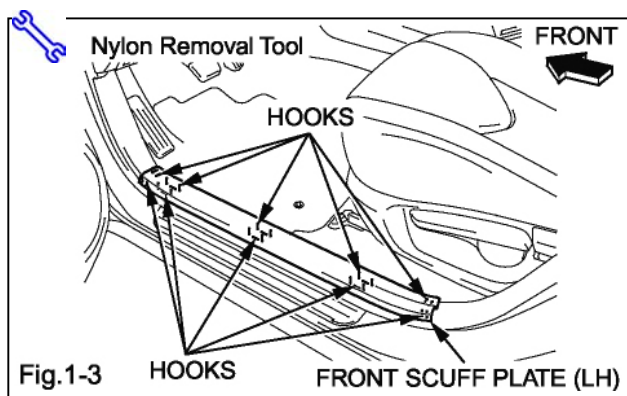
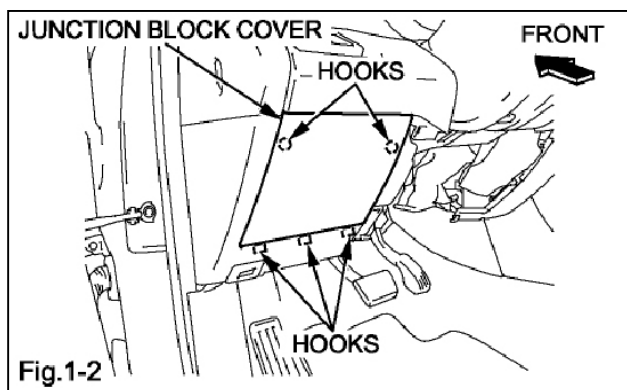
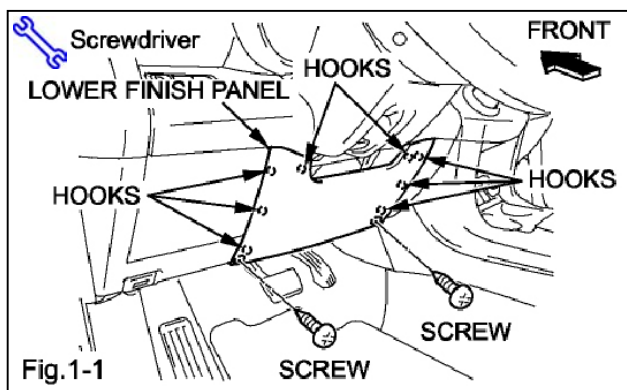
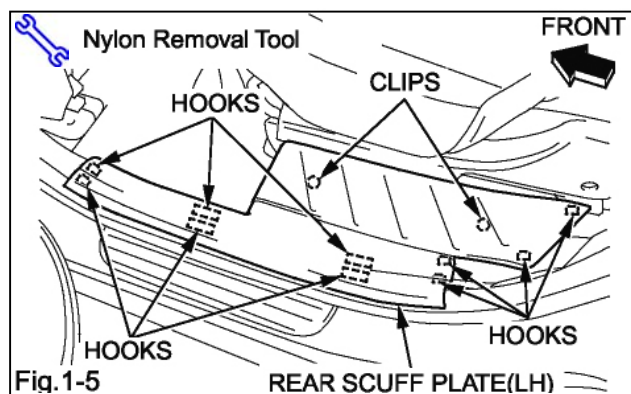


Fig.8



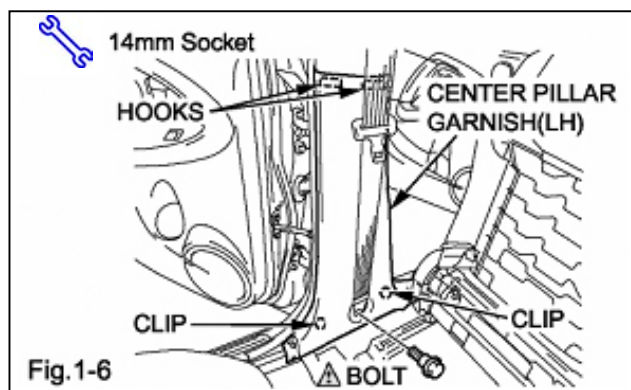
1. Parts Removal No.1

- (a) Before installation, remove the negative (-) terminal of the battery.
- (b) Lower finish panel.
 - (1) Remove 2 screws from lower finish panel and remove lower finish panel. (Fig. 1-1)
- (c) Junction block cover.
 - (1) Remove junction block cover. (Fig. 1-2)
- (d) Front scuff plate (LH).
 - (1) Remove front scuff plate (LH). (Fig. 1-3)
- (e) Cowl side trim (LH).
 - (1) Remove the clip from cowl side trim (LH) by turning it counter clockwise. Remove cowl side trim (LH). (Fig. 1-4)



(f) Rear scuff plate (LH).

- (1) Remove rear scuff plate (LH).
(Fig. 1-5)

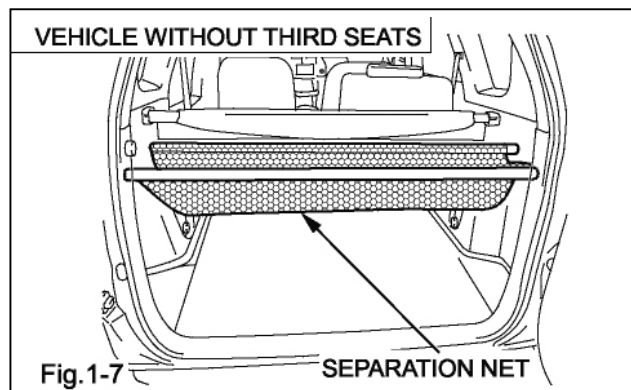


(g) Center pillar garnish (LH).

- (1) Remove the bolt from center pillar garnish (LH) and remove center pillar garnish (LH). (Fig. 1-6)



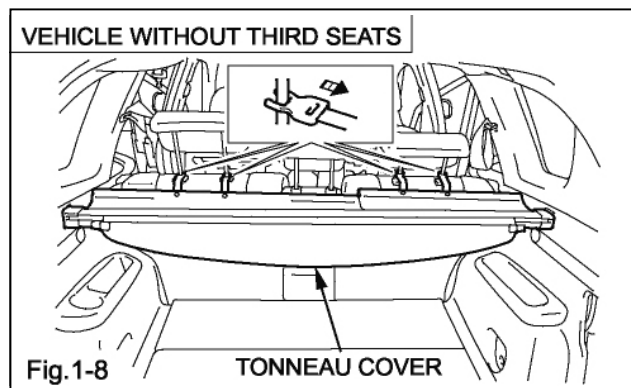
(h) Upon reassembly, tighten the bolt with 42.0 N·m [374 lbf·in] of torque. (Fig. 1-6)



(i) Vehicle without third seats only (j).

(j) Separation net.

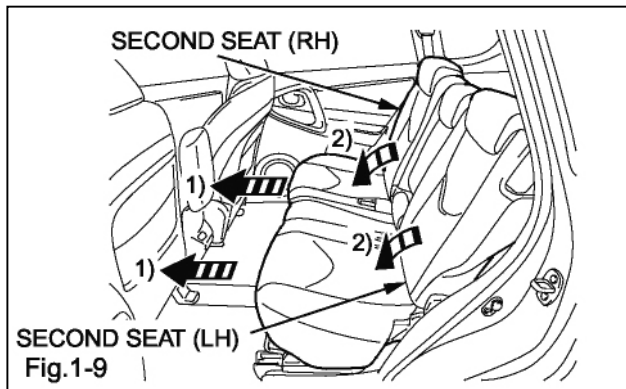
- (1) Remove separation net.
(Fig. 1-7)



(k) Vehicle without third seats only (l).

(l) Tonneau cover.

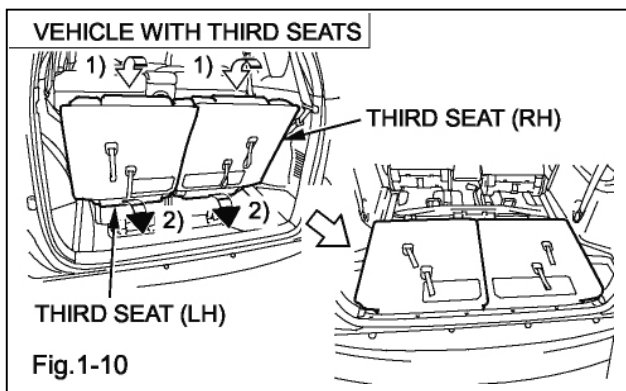
- (1) Remove tonneau cover. (Fig. 1-8)



(m) Second seats (RH, LH).

(1) Move the second seats (RH, LH) forward as shown.

(Fig. 1-9)

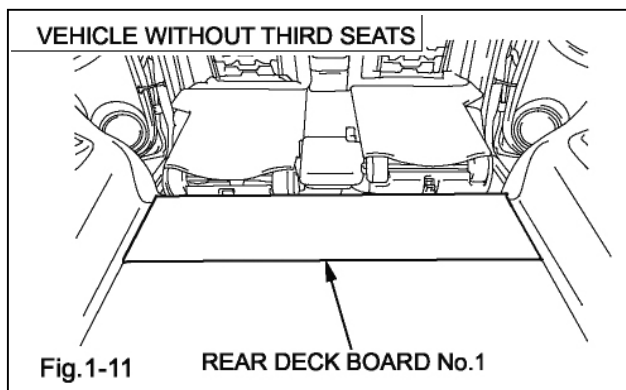


(n) Vehicle with third seats only (o).

(o) Third seats (RH, LH).

(1) Move the third seat (RH, LH) forward as shown.

(Fig. 1-10)

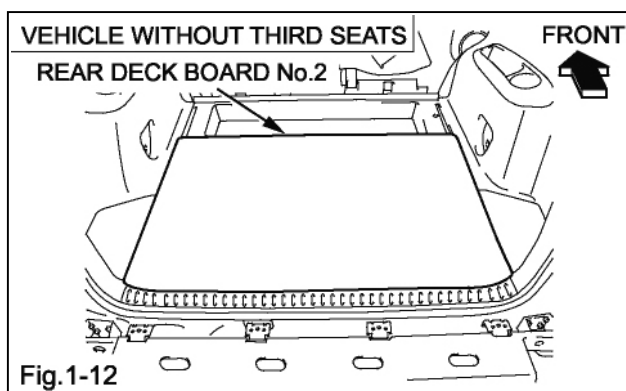


(p) Vehicle without third seats only (q).

(q) Rear deck board No. 1.

(1) Remove rear deck board No. 1.

(Fig. 1-11)

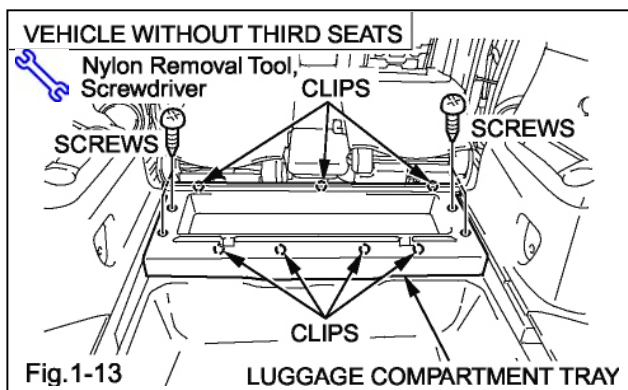


(r) Vehicle without third seats only (s).

(s) Rear deck board No. 2.

(1) Remove rear deck board No. 2.

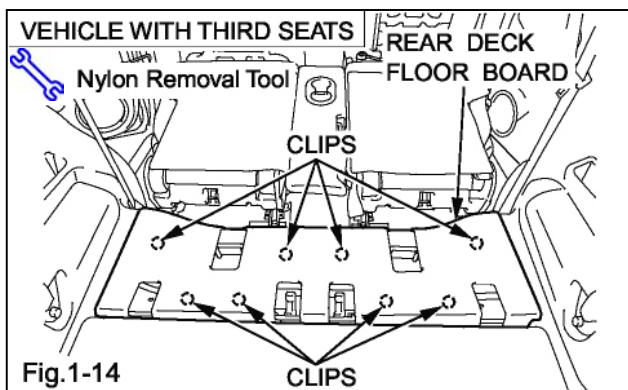
(Fig. 1-12)



(t) Vehicle without third seats only (u).

(u) Luggage compartment tray.

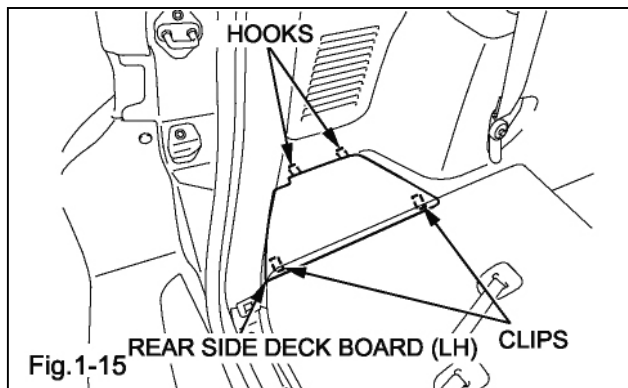
- (1) Remove luggage compartment tray.
(Fig. 1-13)



(v) Vehicle with third seats only (w).

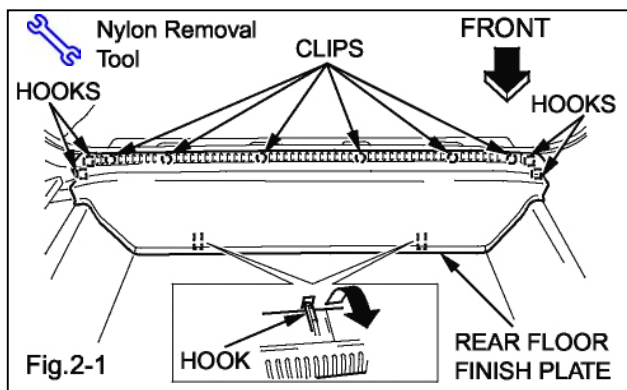
(w) Rear deck floor board.

- (1) Remove rear deck floor board. (Fig. 1-14)



(x) Rear side deck board (LH).

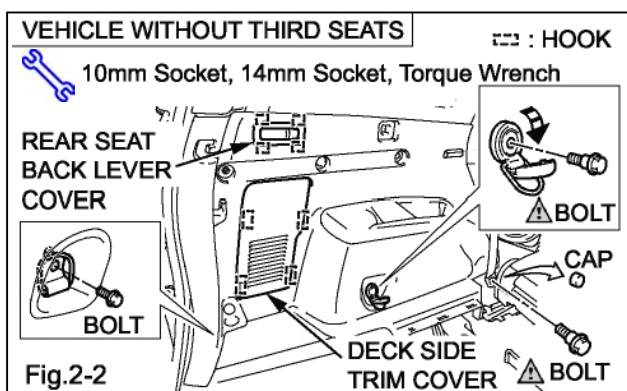
- (1) Remove rear side deck board (LH).
(Fig. 1-15)



2. Parts Removal No.2

(a) Rear floor finish plate.

- (1) Remove rear floor finish plate.
 (Fig. 2-1)



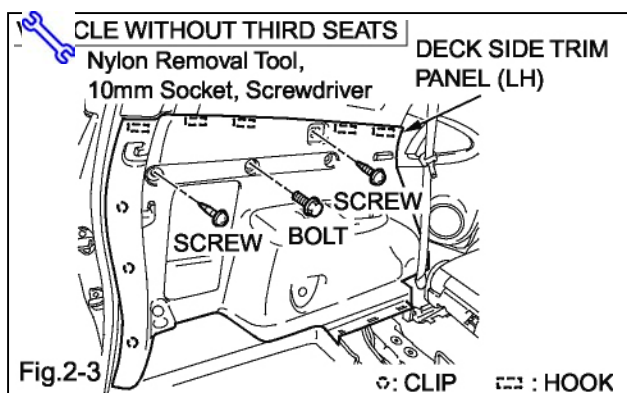
(b) Vehicle without third seats only (c)-(d).

(c) Deck side trim panel (LH).

- (1) Remove rear seat back lever cover and cap from deck side trim panel.
- (2) Remove 3 bolts from deck side trim panel (LH) and remove deck side trim cover.



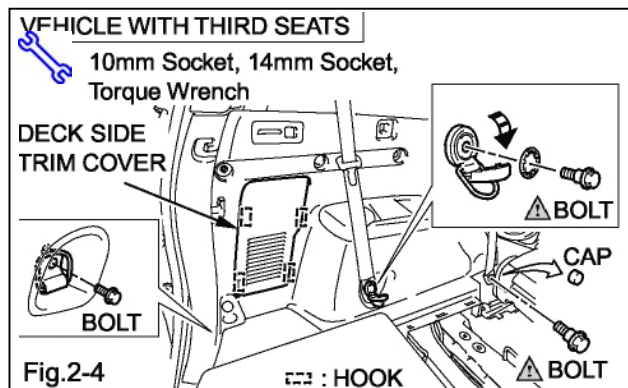
(d) Upon reassembly, tighten the bolt with 42.0 N·m [374 lbf·in] of torque. (Fig. 2-2)



(e) Vehicle without third seats only (f).

(f) Deck side trim panel (LH).

- (1) Remove deck side trim panel (LH).
 (Fig. 2-3)



(g) Vehicle with third seats only (h)-(i).

(h) Deck side trim panel (LH).

- (1) Remove cap from deck side trim panel.
- (2) Remove 3 bolts from deck side trim panel (LH) and remove deck side trim cover. (Fig. 2-4)

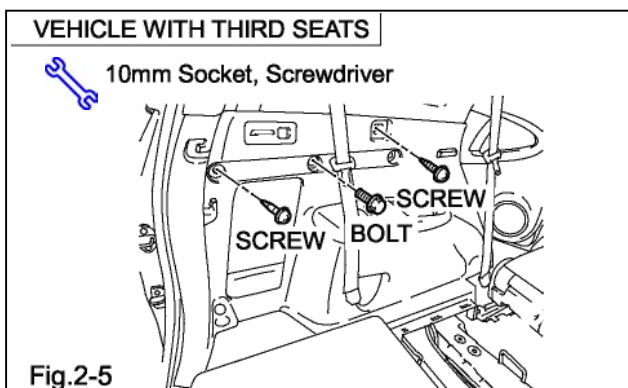


(i) Upon reassembly, tighten the bolt with: 42.0 N·m [374 lbf·in] of torque. (Fig. 2-4)



(j) Vehicle with third seats only (k).

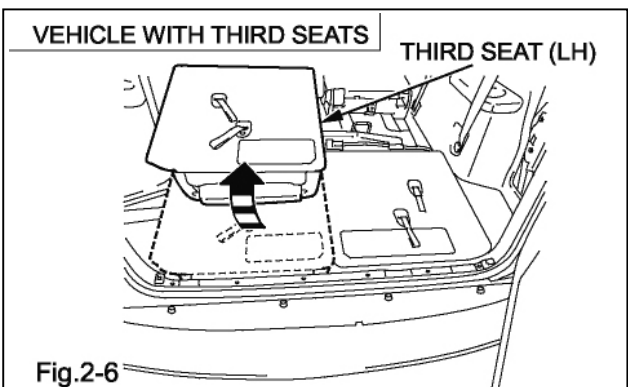
(k) Remove 2 screws and 1 bolt from deck side trim panel (LH). (Fig. 2-5)



(l) Vehicle with third seats only (m).

(m) Third seat (LH).

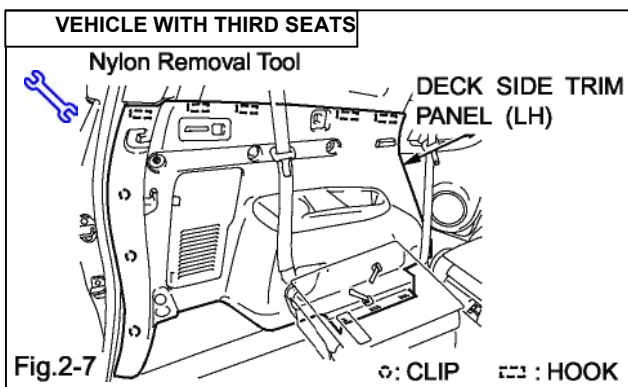
- (1) Move the third seat (LH) forward as shown. (Fig. 2-6)

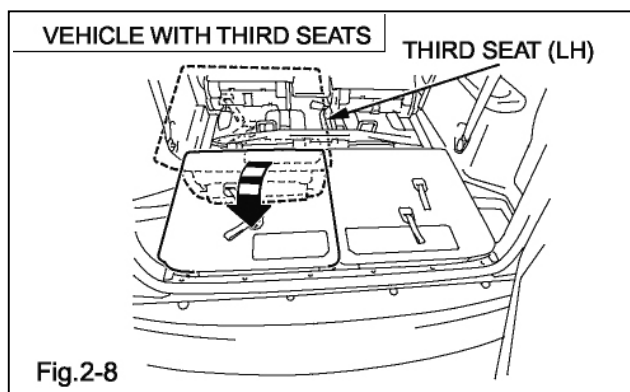


(n) Vehicle with third seats only (o).

(o) Deck side trim panel (LH).

- (1) Remove deck side trim panel (LH). (Fig. 2-7)

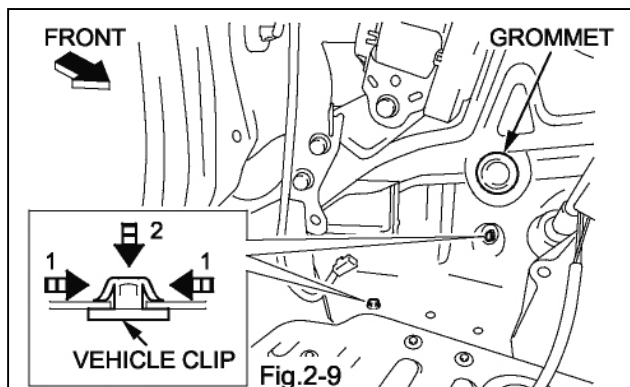




(p) Vehicle with third seat only (q).

(q) Third seats. Move the third seat (LH) backwards as shown. (Fig. 2-8)

(1) Remove deck side trim panel (LH).
 (Fig. 2-8)



(r) Vehicle grommet.

(1) Remove vehicle grommet. (Fig. 2-9)

(s) Vehicle clips.

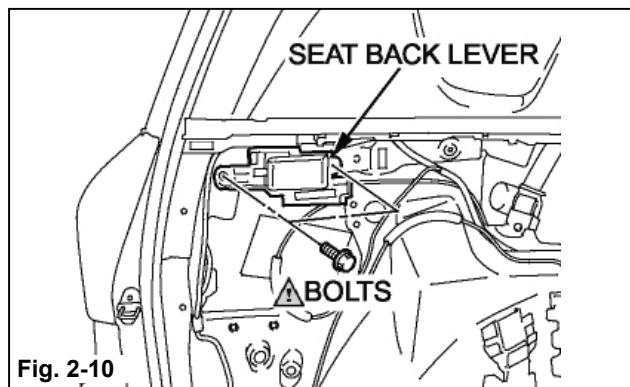
(1) Remove vehicle clips. (Fig. 2-9)



(t) Vehicle without third seat only (u).

(u) Seat back lever.

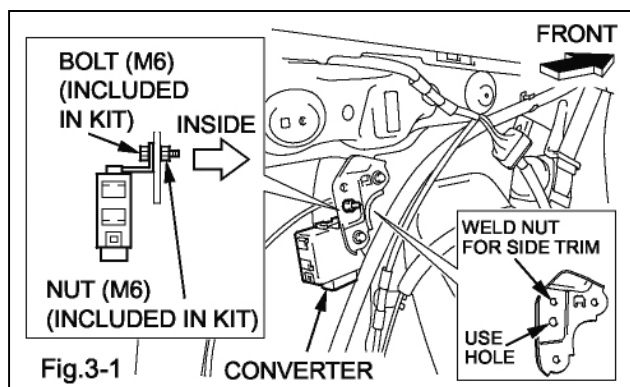
(1) Remove 2 bolts from seat back lever and leave the cable attached. Wrap in cloth. (Fig. 2-10)



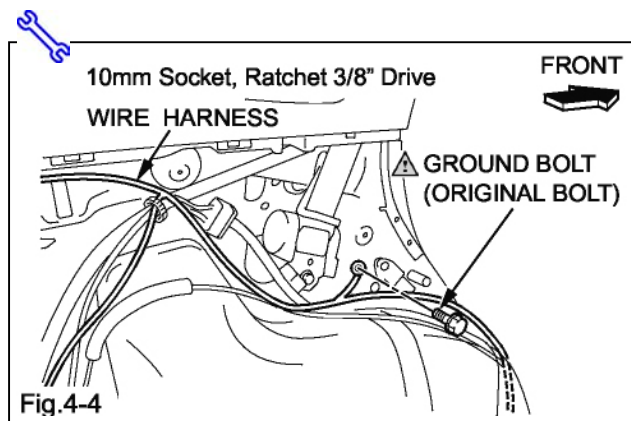
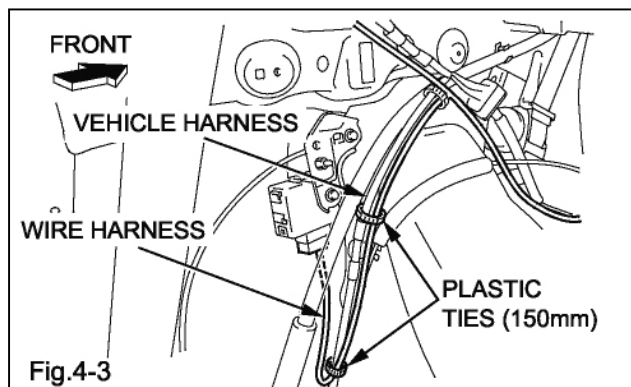
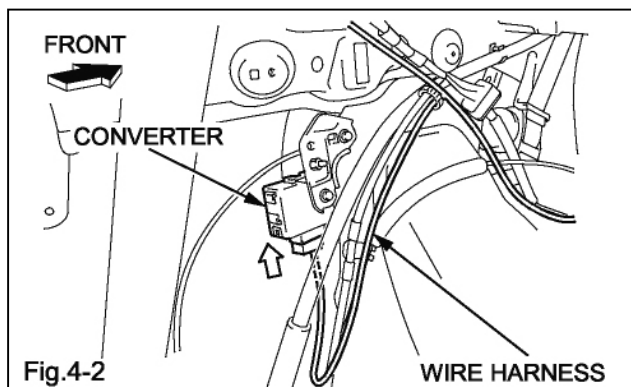
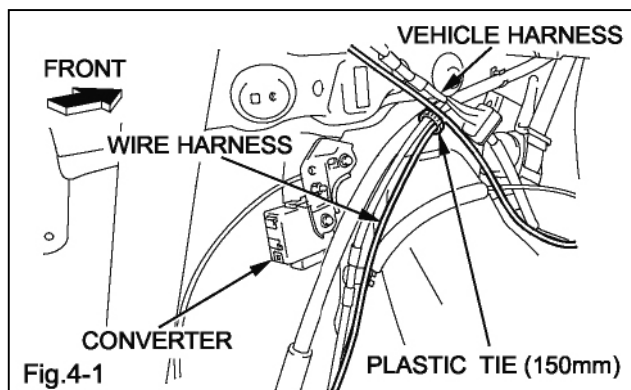
(2) Upon reassembly, tighten the bolt with 18.0 N·m [160 lbf·in] of torque. (Fig. 2-10)

3. Converter installation

(a) Install the converter to the vehicle hole with a bolt (M6) (included in kit) and nut (M6) (included in kit). (Fig. 3-1)



(b) Upon reassembly, tighten the bolt with 5.5 N·m [49 lbf·in] of torque. (Fig. 3-1)



4. Wire harness installation No. 1

(a) Securing wire harness.



- (1) Tie the wire harness and vehicle harness at their branch points so that they are secured in a bundle with a plastic tie (150 mm).
- (2) Secure wire harness to vehicle harness with a plastic tie (150mm) as shown. (Fig. 4-1)

(b) Connecting wire harness (10P).

- (1) Connect the wire harness (10P) to the converter (10P). (Fig. 4-2)

(c) Securing wire harness.

- (1) Secure the wire harness to the vehicle harness with two plastic ties (150mm). (Fig. 4-3)

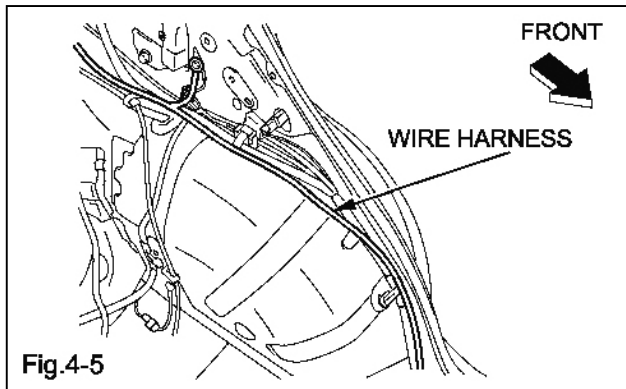
(d) Routing of wire harness.

- (1) Route the wire harness as shown. (Fig. 4-4)

(e) Route the wire harness to the vehicle harness, fasten the wire harness ground terminal to the ground bolt (original bolt).

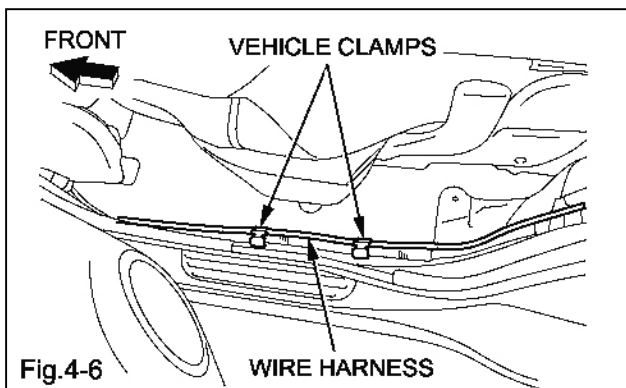


- (f) Tighten the bolt with: 8.5 N·m [75lbf·in] of torque. (Fig. 4-4)



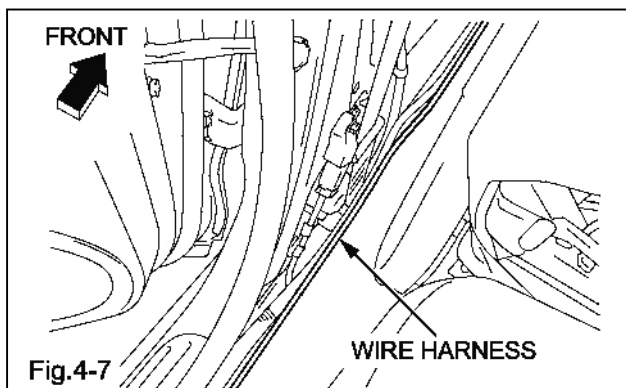
(g) Routing of wire harness.

- (1) Route the wire harness as shown.
(Fig. 4-5)



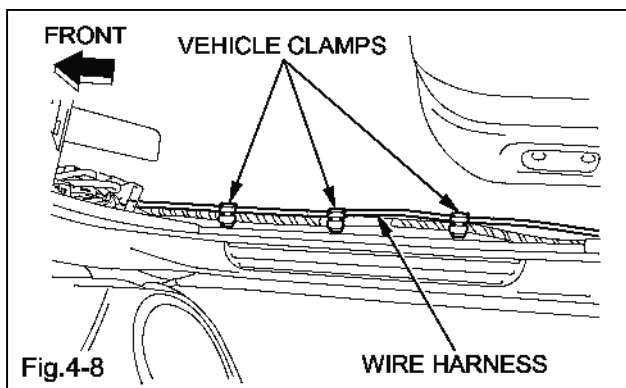
(h) Securing wire harness.

- (1) Lift the 2 vehicle clamps and route the wire harness (1P) along the vehicle harness. (Fig. 4-6)



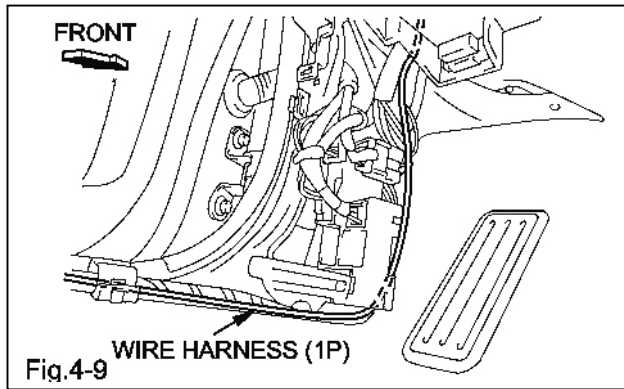
(i) Routing of wire harness.

- (1) Route the wire harness as shown.
(Fig. 4-7)



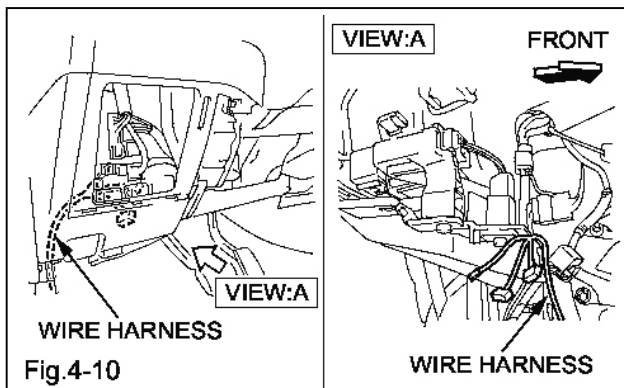
(j) Securing wire harness.

- (1) Lift the 3 vehicle clamps and route the wire harness along the vehicle harness. (Fig. 4-8)



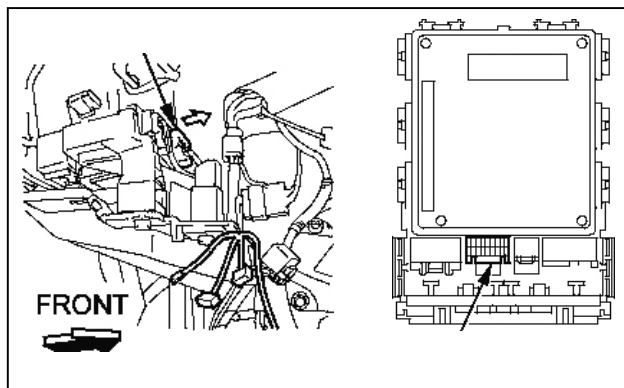
(k) Routing of wire harness.

- (1) Route the wire harness as shown.
(Fig. 4-9)

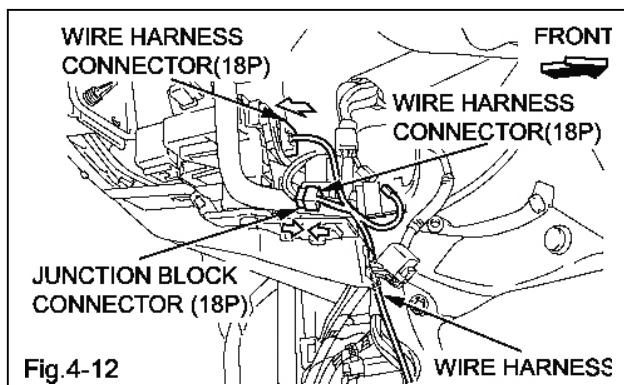


(l) Routing of wire harness.

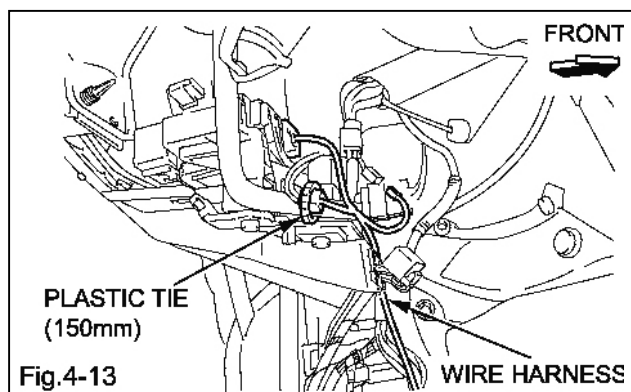
- (1) Route the wire harness as shown.
(Fig. 4-10)



(m) Disconnect the rear junction block connector (18P).
(Fig. 4-11)

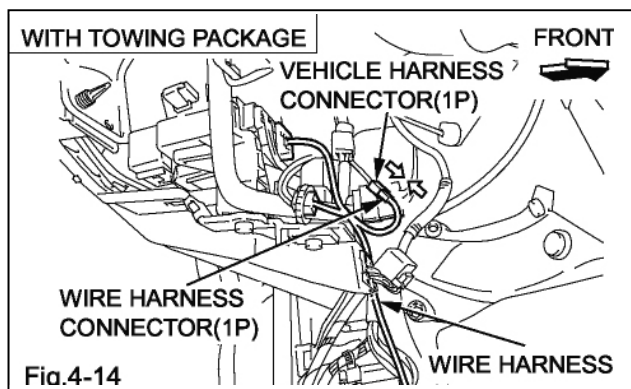


(n) Route the wire harness as shown and connect it to the junction block connector (18P).
(Fig. 4-12)



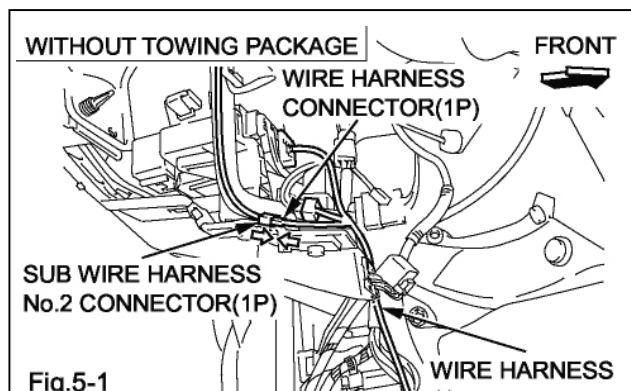
(o) Securing wire harness.

- (1) Secure the wire harness to the vehicle harness with a plastic tie (150mm).
 (Fig. 4-13)



(p) With towing package only (q).

- (q) Connect the wire harness connector (1P) to the vehicle harness connector (1P).
 (Fig. 4-14)

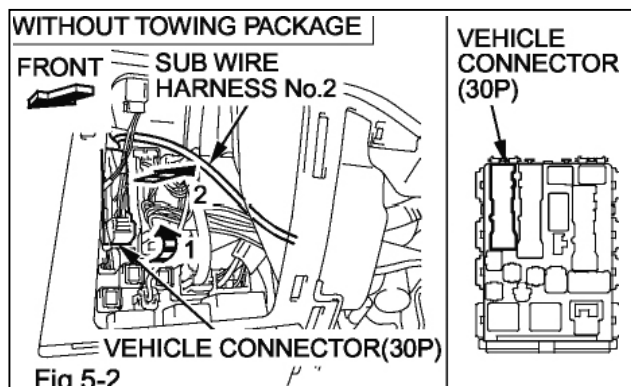


5. Sub wire harness No. 2 installation



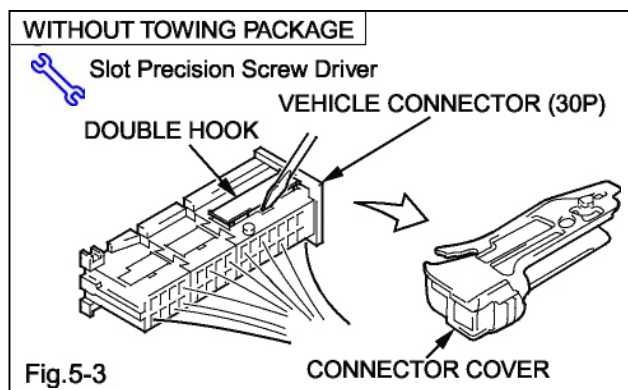
(a) Without towing package only (b).

- (b) Connecting the wire harness connector (1P) to the sub wire harness No. 2 connector (1P).
 (Fig. 5-1)



(c) Without towing package only (d).

- (d) Disconnect the vehicle connector (30P) at the position of junction block as shown.
 (Fig. 5-2)

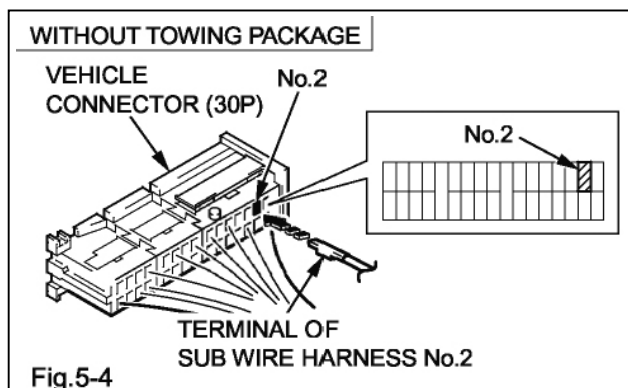


(e) Without towing package only (f).

(f) Insert the terminal of sub wire harness No. 2 into No. 2 of vehicle connector (30P).

(1) Remove connector cover.

(2) Lift the double hook of vehicle connector (30P) with a slot precision screwdriver.
 (Fig. 5-3)

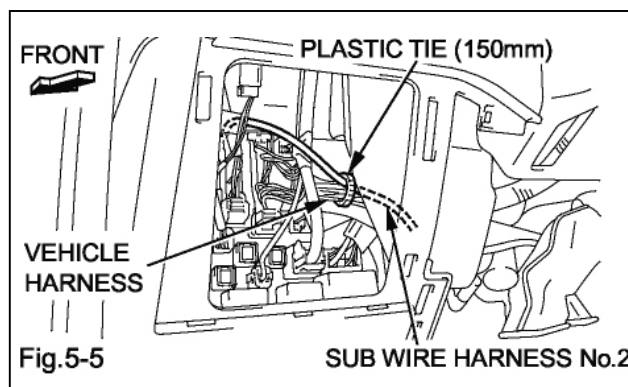


(3) Insert the terminal of sub wire harness No. 2 into the position as shown.
 (Fig. 5-4)

(4) Do not insert the terminal of sub wire harness No. 2 into other connectors than the connector No. 2.

(5) Put back the double hook to the original position.
 (Fig. 5-4)

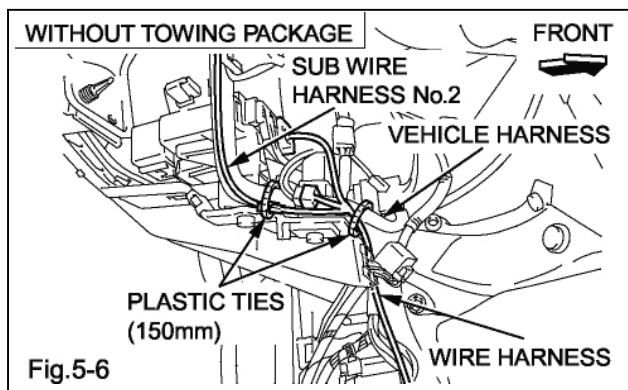
(6) Connect the vehicle connector (30P) to the original position.



(g) Without towing package only (h).

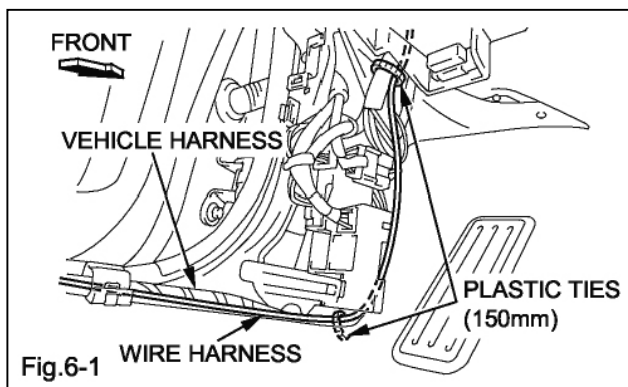
(h) Securing sub wire harness No. 2.

(1) Secure the sub wire harness No. 2 to the vehicle harness with a plastic tie (150mm).
 (Fig. 5-5)

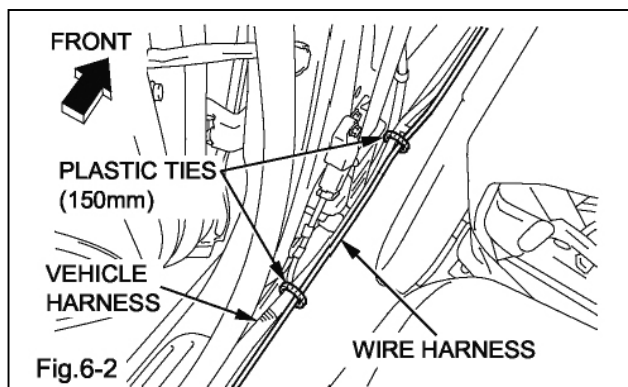


- (i) Without towing package only (j).
- (j) Securing sub wire harness No. 2.
- (1) Secure the sub wire harness No. 2 and wire Harness to the vehicle harness with two plastic ties (150mm). (Fig. 5-6)

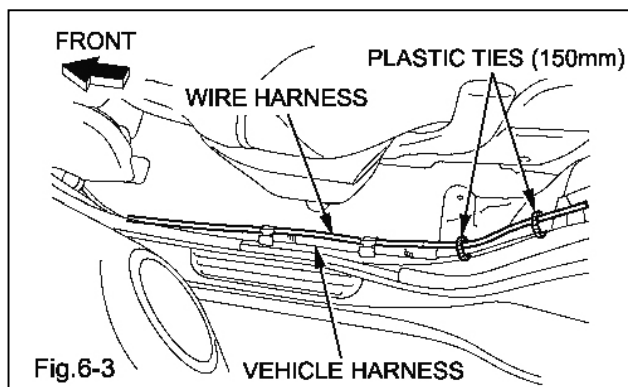
6. Wire harness installation No.2



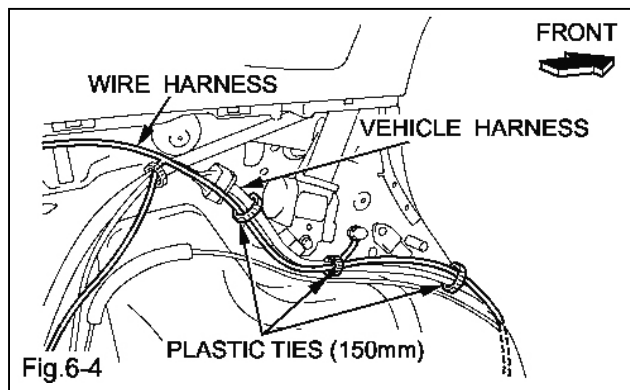
- (a) Securing wire harness.
- (1) Secure the wire harness to the vehicle harness with two plastic ties (150mm). (Fig. 6-1)



- (b) Securing wire harness.
- (1) Secure the wire harness to the vehicle harness with two plastic ties (150mm). (Fig. 6-2)

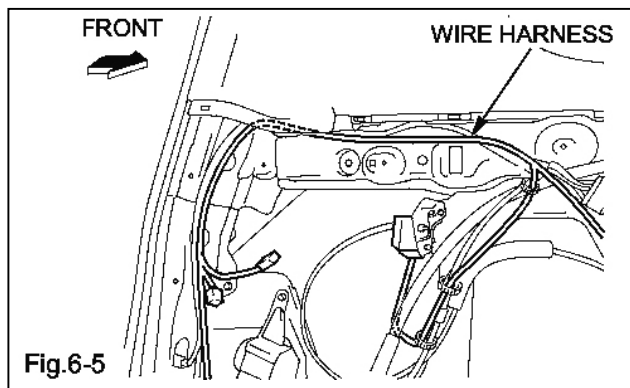


- (c) Securing wire harness.
- (1) Secure the wire harness to the vehicle harness with two plastic ties (150mm). (Fig. 6-3)



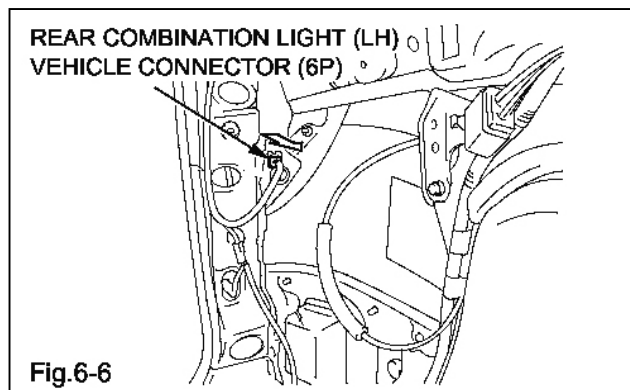
(d) Securing wire harness.

- (1) Secure the wire harness to the vehicle harness with three plastic ties (150mm). (Fig. 6-4)

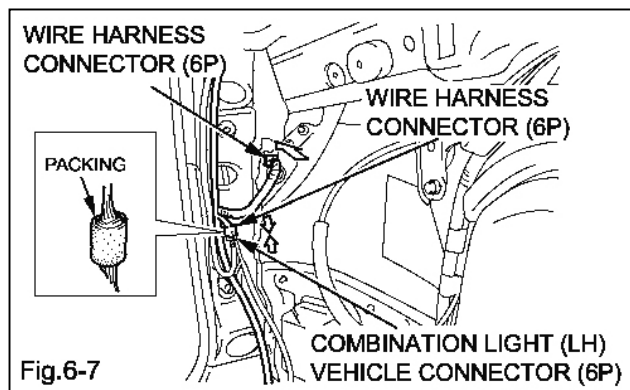


(e) Routing of wire harness.

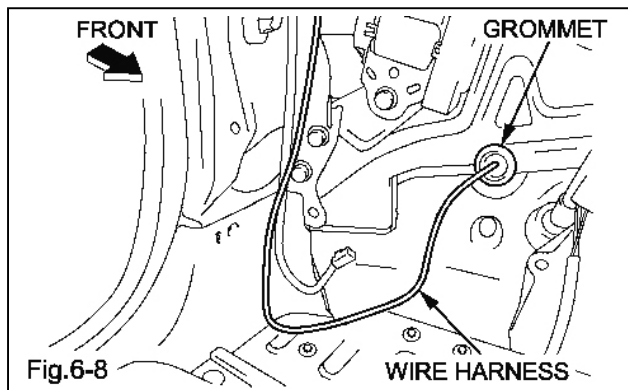
- (1) Route the wire harness as shown. (Fig. 6-5)



(f) Disconnect the rear combination light (LH) vehicle connector (6P). (Fig. 6-6)

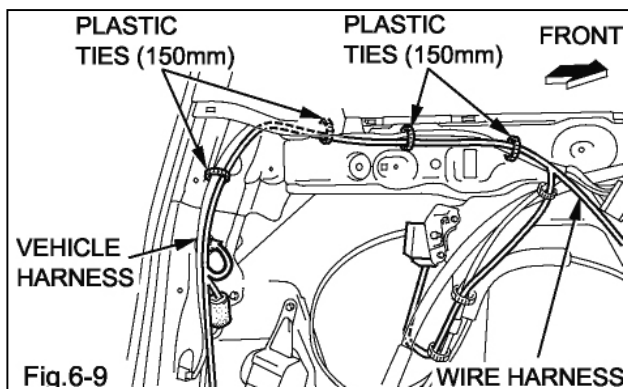


- (g) Route the wire harness as shown and connect it to the combination light (LH) vehicle connector (6P). (Fig. 6-7)
- (h) Wrap a packing around the branch connector connection. (Fig. 6-7)



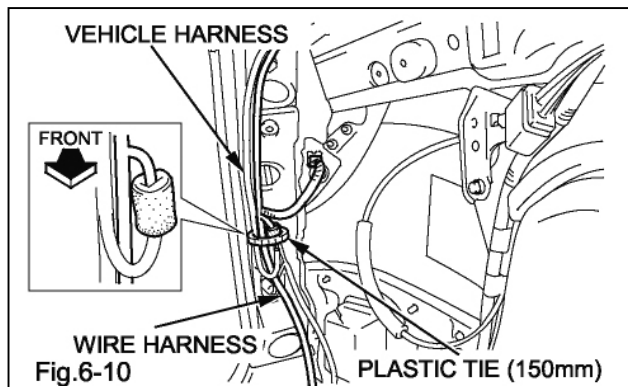
(i) Wire harness routing and securing.

- (1) Pass the wire harness through the vehicle hole and fit wire harness grommet to the vehicle hole.
(Fig. 6-8)



(j) Securing wire harness.

- (1) Secure the wire harness to the vehicle harness with four plastic ties (150mm).
(Fig. 6-9)

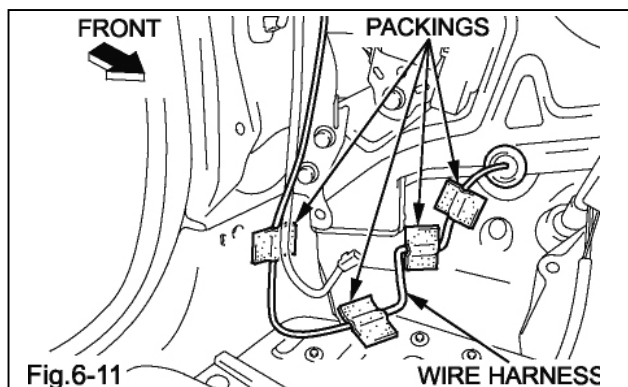


(k) Securing wire harness.

- (1) Secure the wire harness to the vehicle harness with a plastic tie (150 mm).
(Fig. 6-10)

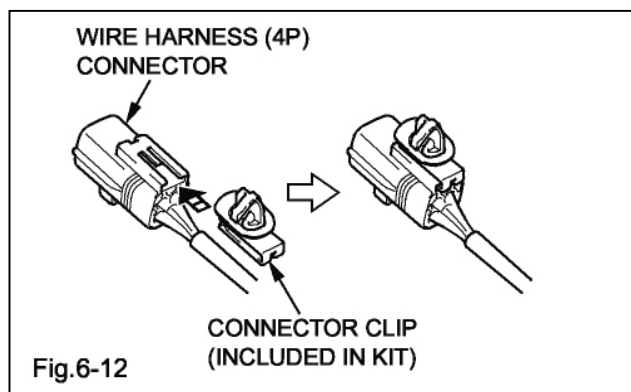


- (1) When the connector connection is not secured as shown, deck side trim panel cannot be reattached.



(m) Securing wire harness.

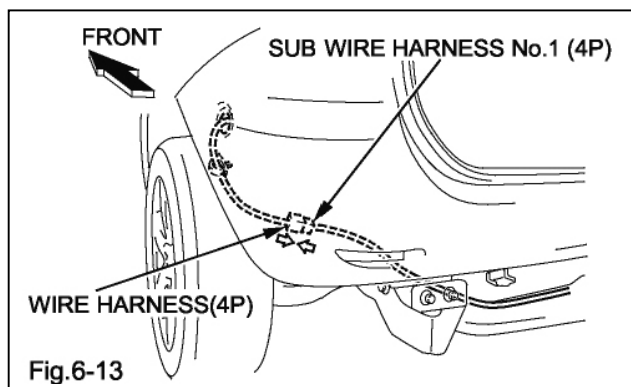
- (1) Secure wire harness to vehicle body with four packings as shown.
(Fig. 6-11)



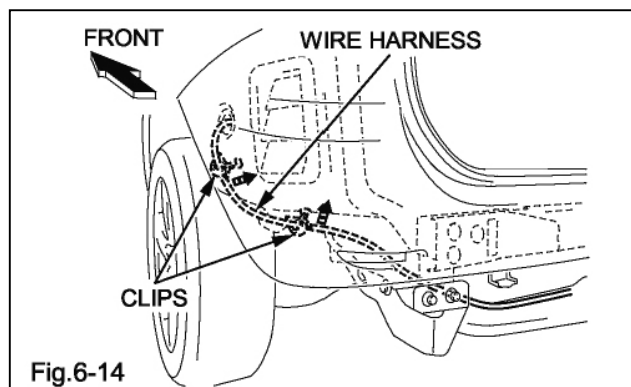
- (n) After passing the wire harness (4P) connector through the vehicle hole, assemble wire harness (4P) connector and connector clip (included in kit). (Fig. 6-12)



- (o) Confirm that the connector clip (included in kit) and the connector are securely fitted.

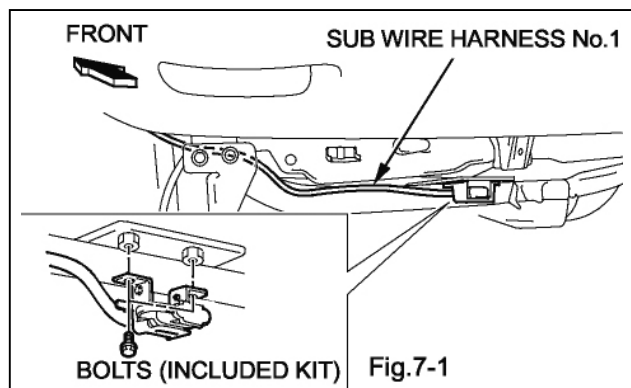


- (p) Connect the wire harness (4P) to the sub wire harness No.1 (4P). (Fig. 6-13)



- (q) Securing wire harness clip.

- (1) Secure the wire harness with 2 clips to the vehicle body. (Fig. 6-14)



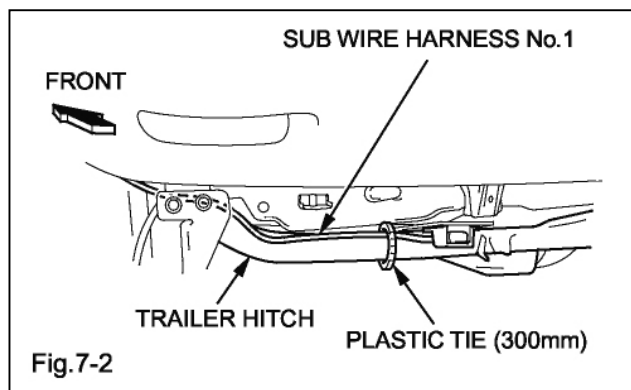
7. Sub wire harness No. 1 installation

- (a) Fastening flat (4P) connector

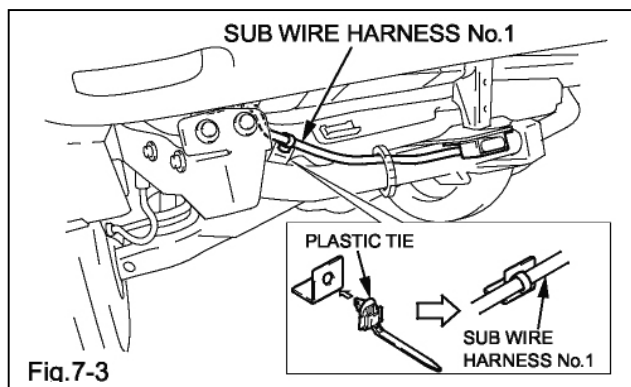
- (1) Fasten flat (4P) connector with 2 bolts (M5) (included in kit). (Fig. 7-1)



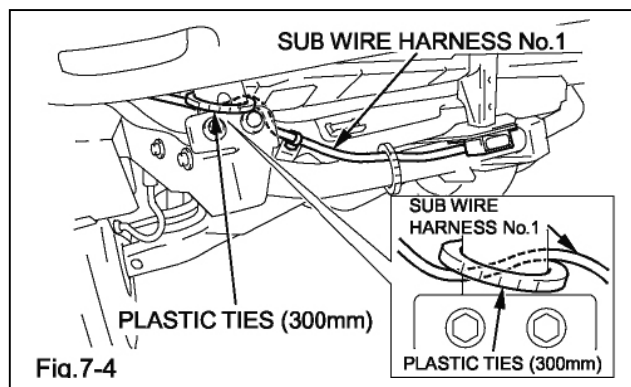
- (2) Torque bolts to: 3.9 N·m [36lbf·in] (Fig. 7-1)



- (b) Tie the sub wire harness No. 1 and secure to the trailer hitch with a plastic tie (300mm). (Fig. 7-2)



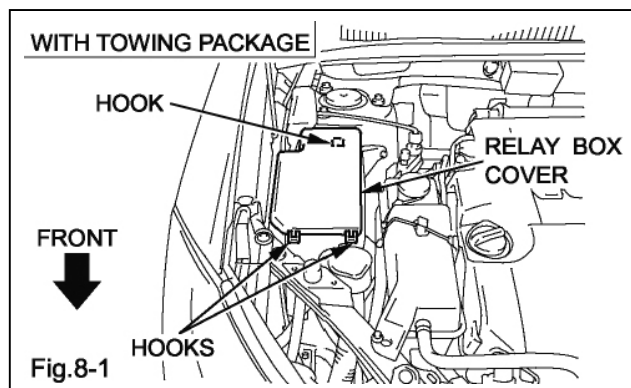
- (c) Secure the sub wire harness No.1 as shown to bracket of the trailer hitch with the plastic tie. (Fig. 7-3)



- (d) Tie the sub wire harness No.1 and secure to the trailer hitch with a plastic tie (300mm). (Fig. 7-4)



- (e) Secure the sub wire harness with a plastic tie (300mm) so that it does not interfere with trailer hitch.

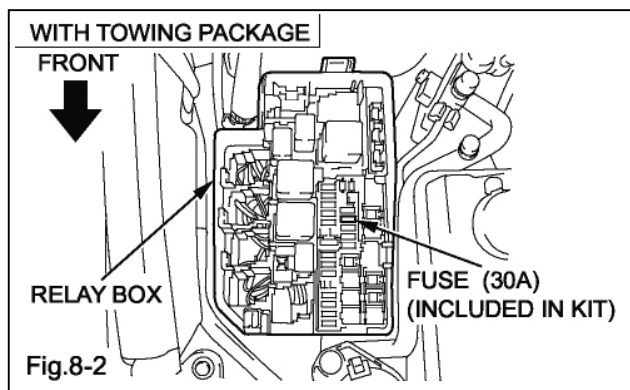


8. Installing the fuse



- (a) With towing package only (b).
 (b) Relay box cover.

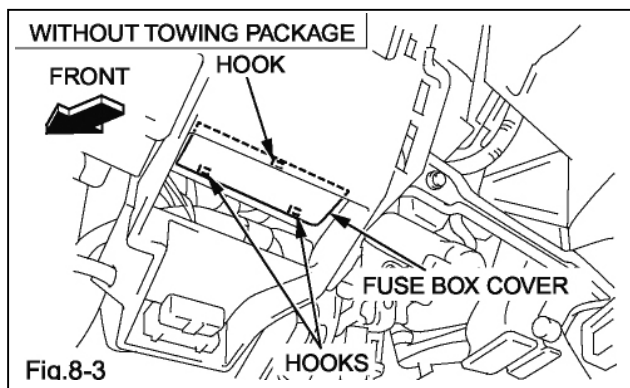
- (1) Remove relay box cover.
 (Fig. 8-1)



(c) With towing package only (d)-(e).

(d) Install the fuse (30A) (included in kit) to the position as shown.
 (Fig. 8-2)

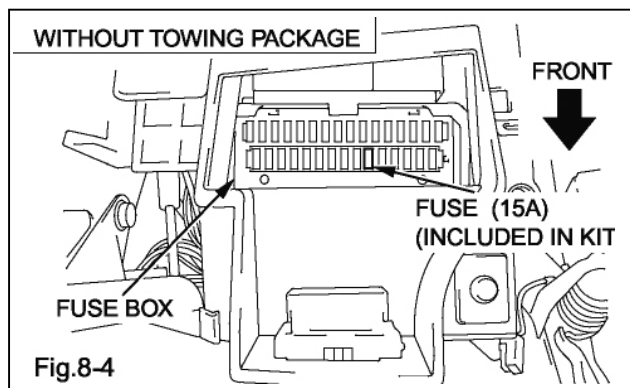
(e) Be sure to use a 30A fuse. Do not use a 15A fuse.



(f) Without towing package only (g).

(g) Fuse box cover.

(1) Remove fuse box cover.
 (Fig. 8-3)

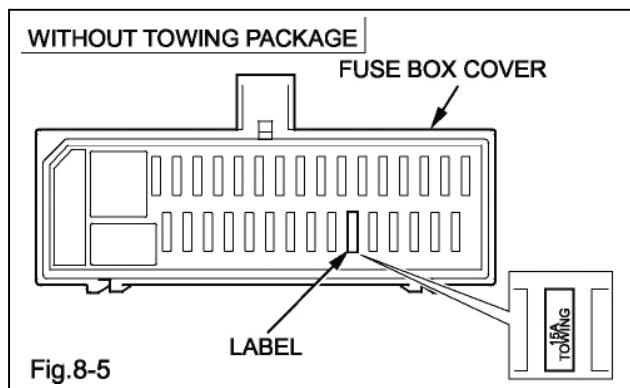


(h) Without towing package only (i)-(j).

(i) Install the fuse (15A) (included in kit) to the position as shown.
 (Fig. 8-4)

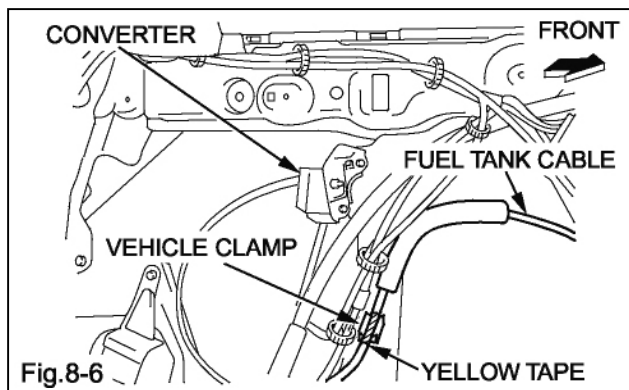


(j) Be sure to use a 15A fuse. Do not use a 30A fuse.



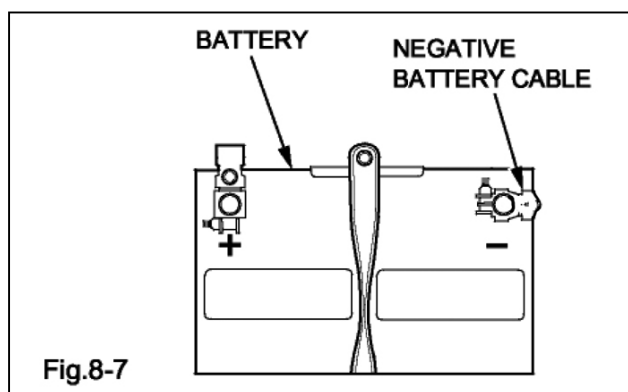
(k) Without towing package only (l).

(l) Apply label (included in kit) to the position on the fuse box cover reverse side as shown.
 (Fig8-5)



(m) If the part of the fuel tank cable with yellow tape comes off from the vehicle clamp, attach it to the vehicle clamp.
(Fig. 8-6)

(n) Put Owner's Manual into the glove box.



(o) Reconnect the vehicle's negative battery cable to original factory position.
(Fig. 8-7)



(1) Torque nut to: 3.9 N•m [36lbf•in].
(Fig. 8-7)



(2) Be careful not to touch the positive battery cable. (Fig. 8-7)

9. Reinstallation.

(a) After functional verification, reinstall all temporarily removed body parts.



(1) Tighten seatbelt bolt (center pillar garnish) to 42 N-m (374 lbf-in) of torque.



(2) Tighten deck side trim panel bolts (LH) to 42 N-m (374 lbf-in) of torque.



(3) Tighten seat back lever bolts to 18 N-m (160 lbf-in) of torque.



(4) Tighten the converter bolt to 5.5 N-m (49 lbf-in) of torque.

<u>Check:</u>	<u>Look For:</u>
<u>Accessory Function Checks</u> ☐ Faults in the wiring harness installation. ☐ Converter mounting. ☐ Wire harness ☐ Plastic tie locations.	Correct routing of the wire harness. Pushing or pulling of the converter by any outside force. Pinching of the wire harness. Positioning of the plastic tie locations.
<u>Vehicle Function Checks</u> ☐ Removed parts. With the Special Service Tool (SST) (Part Number 00002-62195) attached to the trailer sub wire harness plug and with the engine running, perform the following steps:  Caution: Be sure the exhaust gas is completely ventilated.  Caution: Be sure the vehicle is in “Park” and that the parking brake is applied. ☐ Turn on headlamps. ☐ Turn on left turn signal. ☐ Turn on right turn signal. ☐ Apply foot brake. ☐ Turn on left turn signal and apply foot brake. ☐ Turn on right turn signal and apply foot brake. ☐ Turn on hazard lights switch.	Scratches or other damage Marker and tail lights on both SST and vehicle are lit. Left turn lights on both SST and vehicle are flashing. Right turn lights on both SST and vehicle are flashing. Stop lights on both SST and vehicle are lit. Left turn lights are flashing and right stop Lights are lit on both SST and vehicle. Right turn lights are flashing and right stop lights are lit on both SST and vehicle. All turn signal lights are flashing on both SST and vehicle.

Check:

- ☐ With hazard lights switch on, apply the foot brake.
- ☐ Turn off the hazard light switch, apply the foot brake.
The following checks are to be performed
With the ignition switch off and the engine
Stopped.
- ☐ Turn on headlamps.
- ☐ Apply foot brake.
- ☐ Turn on left turn signal.
- ☐ Turn on right turn signal.
- ☐ Turn on left turn signal and apply foot brake.
- ☐ Turn on right turn signal and apply foot brake.
- ☐ With hazard lights switch on, apply the foot brake.
- ☐ Turn off the hazard light switch, apply foot brake.

Look For:

Both stop lights on the vehicle are lit, both turn/stop lights on the SST and the turn lights the vehicle are flashing.

Both turn/stop lights on the SST and the stop lights on the vehicle are lit.

Marker and tail lights on both SST and vehicles are lit.

Stop lights on both SST and vehicle are lit.

Left turn lights are not lit on both SST and vehicle.

Right turn lights are not lit on both SST and vehicle.

Both stop lights are lit and not flashing on both SST and vehicle.

Both stop lights are lit and not flashing on both SST and vehicle.

All turn signal lights are flashing on both SST and vehicle.

Both stop lights on the vehicle and the turn/stop lights on the SST are lit but not flashing.

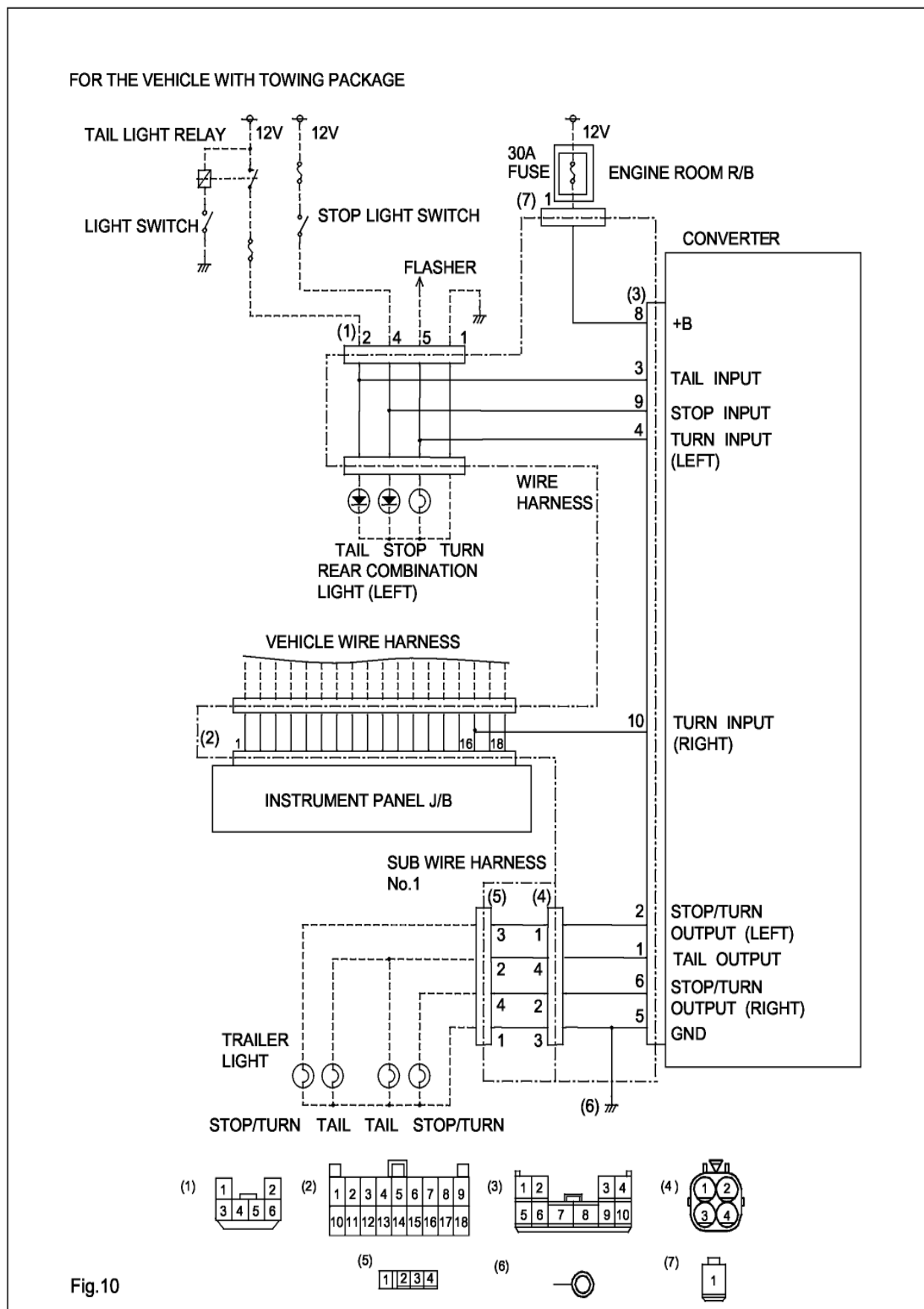


Fig.10

FOR THE VEHICLE WITHOUT TOWING PACKAGE

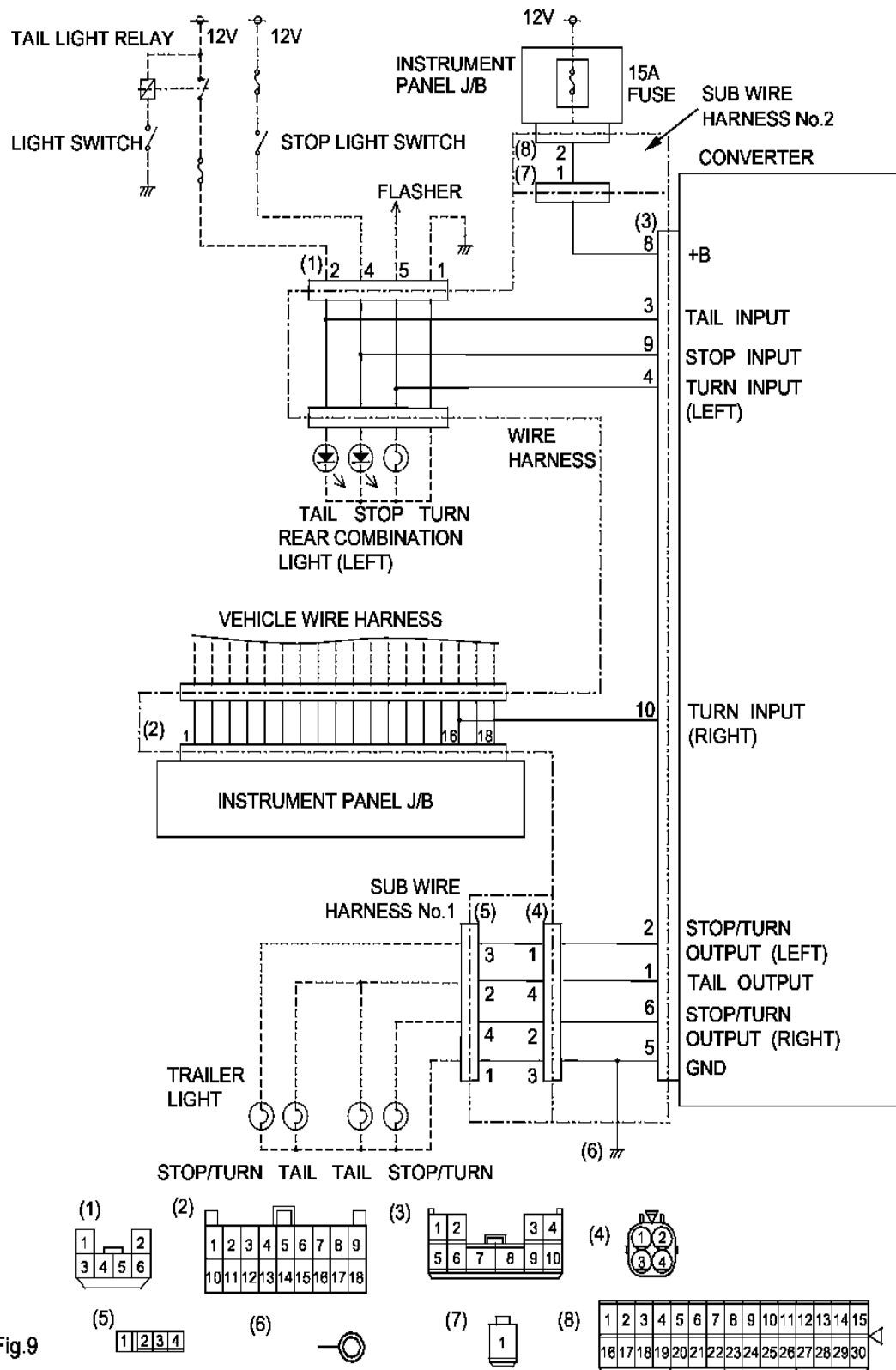


Fig.9

Part Number: 08586-42820**NOTE:** Part number of this accessory may not be the same as the part number shown.**Kit Contents**

Item #	Quantity Req'd.	Description
1	1	Wire Harness (Main)
2	1	Wire Harness (Sub)
3	1	Hood Switch

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	1	RES ECU
2	1	RES ECU Mounting Bracket
3	1	BUS ECU
4	1	BUS ECU Mounting Bracket
5	4	Harness Clamps
6	2	Bolts
7	1	Splicing Connector
8	2	Large Foam Tapes (2 pcs)
9	30	Wire Ties
10	2	Butyl Tape
11	1	Small Foam Tape (1 pcs)
12	2	Warning Labels
13	2	Key Tag
14	1	Shift Tag
15	2	Key Label (For Remote Control Key)
16	1	Caution Label (For Engine Compartment)
17	1	Owner's Manual

Additional Items Required For Installation

Item #	Quantity Req'd.	Description

Conflicts

Note:

Recommended Tools

Personal & Vehicle Protection	Notes
Safety Glasses	
Safety Gloves	(Optional)
Vehicle Protection	Blankets, Part Boxes
Special Tools	Notes
Installation Tools	Notes
Phillips Head Screwdriver	#2, screwdriver or tip
Socket	10 mm
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST # 00002-06001-01
Pneumatic/Electric Wrench	
Side Cutters	

Torque Wrench	
Pliers	
Wrench	10 mm
Utility Knife	
Cable Routing Tool	
Special Chemicals	Notes
Cleaner	3M™ Prep Solvent-70
Glass Cleaner	Household Windex

General Applicability

Note:

Recommended Sequence of Application

Item #	Accessory	

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Req'd.	Description

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.

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.

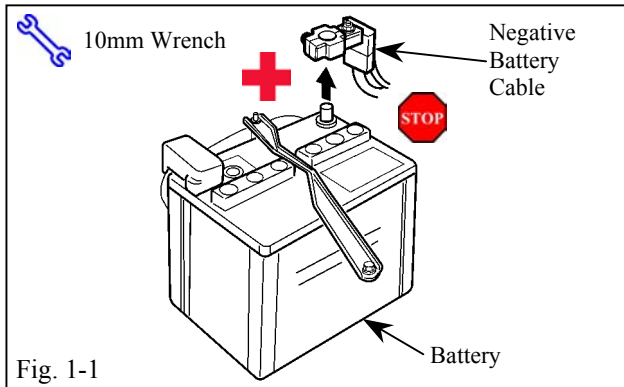


Fig. 1-1

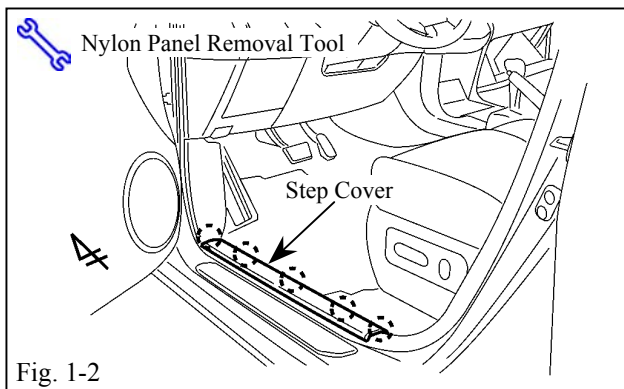


Fig. 1-2

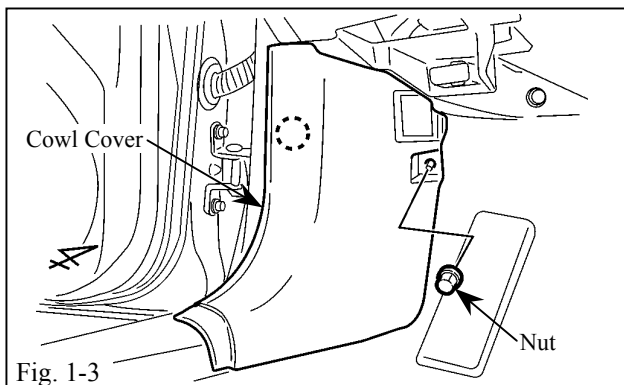


Fig. 1-3

NOTE: This installation instruction covers both V5 harness and RES harness installation.

The differences are highlighted in the procedure as follows:-

- Plain text used for RES system installation (no text box).
- Shaded text box used for both RES harness and V5 harness installation.

1. Vehicle Disassembly.

(a) Remove the negative battery cable.

(Fig. 1-1)

(b) Take note of the battery cable installation position, as this will need to be re-installed in the same position after installation completion.



(1) Do not touch the positive terminal with any tool removing the cable.

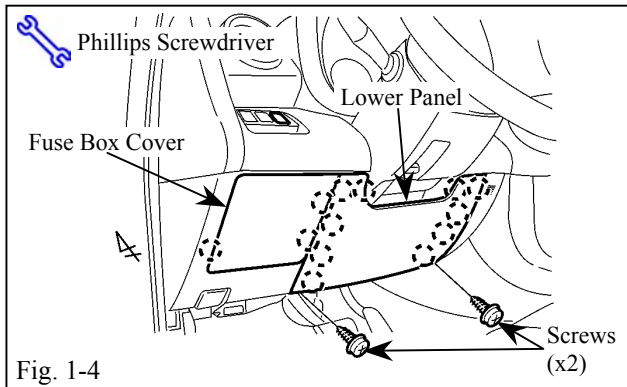
(c) Remove the driver's step cover. (Fig. 1-2)



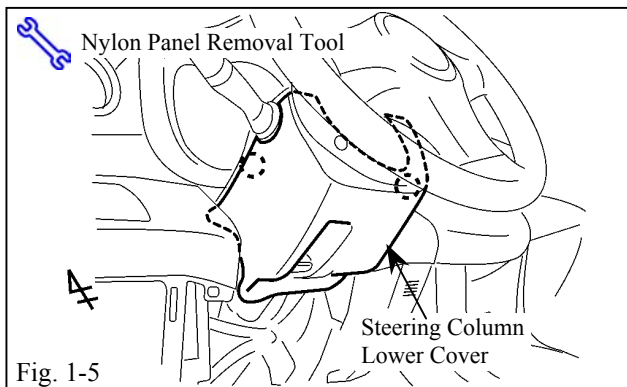
(1) Protect the fender before starting.

(d) Remove the driver's cowl cover. (Fig. 1-3)

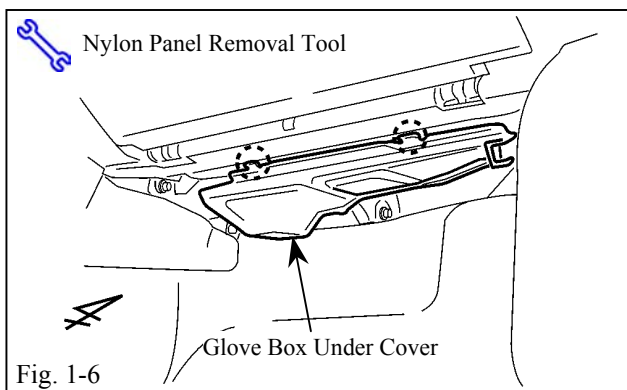
(1) Remove one nut securing the cowl cover.



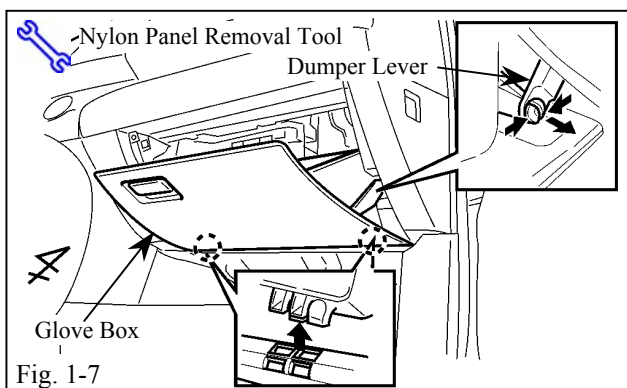
- (e) Remove the fuse box cover. (Fig. 1-4)
- (f) Remove the instrument lower panel.
(Fig. 1-4)
 - (1) Remove two screws securing the panel.



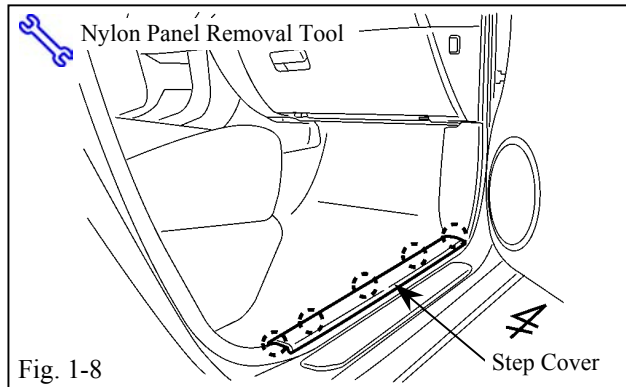
- (g) Remove the steering column lower cover.
(Fig. 1-5)



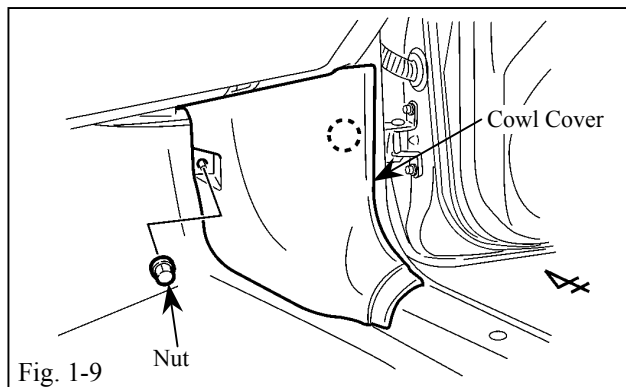
- (h) Remove the glove box under cover.
(Fig. 1-6)



- (i) Remove the glove box assembly. (Fig. 1-7)
 - (1) Open the glove box door and release the dumper lever from the glove box assembly.

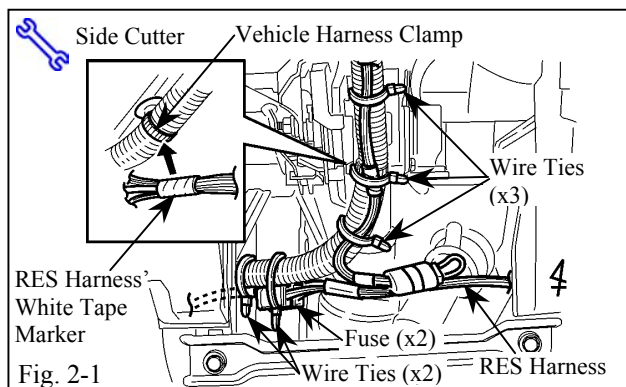


(j) Remove the passenger's step cover. (Fig. 1-8)



(k) Remove the passenger's cowl cover.
(Fig. 1-9)

(1) Remove one nut securing the cowl cover.



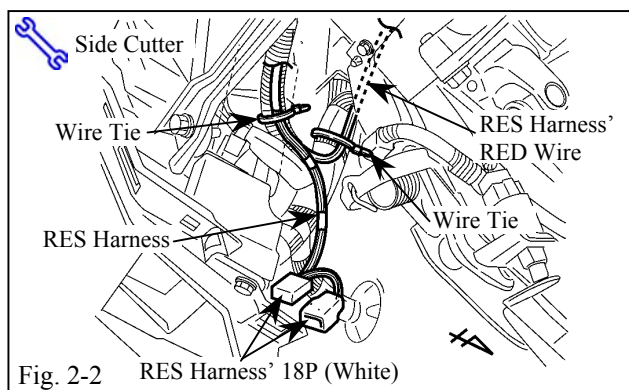
2. RES Harness Installation.

(a) Locate the vehicle harness clamp on the steering shaft area. Secure the white taped markers of the RES harness next to the vehicle harness clamp with one wire tie. (Fig. 2-1)

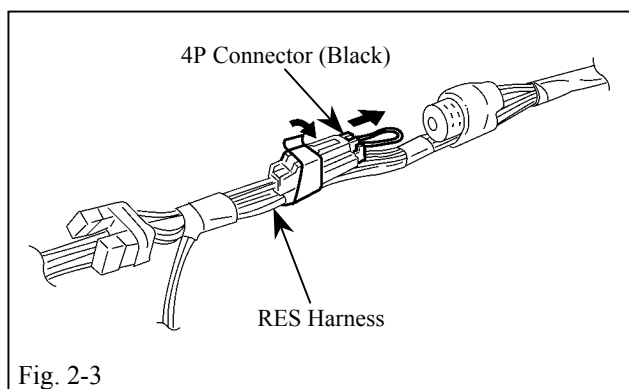
(1) Line up the RES harness' white tape markers to the vehicle harness clamp.

(b) Route the RES harness' white 8P connectors upward towards the steering wheel area, then secure it to the vehicle harness with one wire tie. (Fig. 2-1)

(c) Route the RES harness' two fuses toward the driver side instrument panel area, then secure it to the vehicle harness with three wire ties. (Fig. 2-1)



- (d) Route the RES harness' white 18P connectors and RED wire toward the driver side J/B area, then secure it to the vehicle harness with one wire tie. (Fig. 2-2)
- (e) Route the RES harness' RED wire upward the backside of the driver side J/B area, then secure it to the vehicle harness with one wire tie. (Fig. 2-2)



FOR RES HARNESS and V5 HARNESS
SIMULTANEOUS INSTALLATION ONLY.
(Steps f-h)



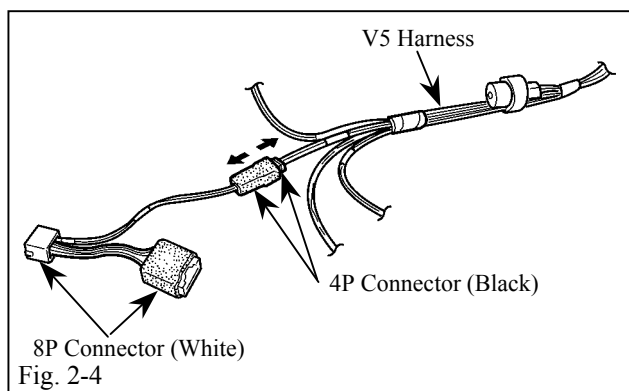
NOTE: Only perform this installation step if the RES harness and V5 harness are installed simultaneously.

- (f) Locate and disconnect the black 4P female connector plugged into the RES harness' black 4P male connector. (Fig. 2-3)

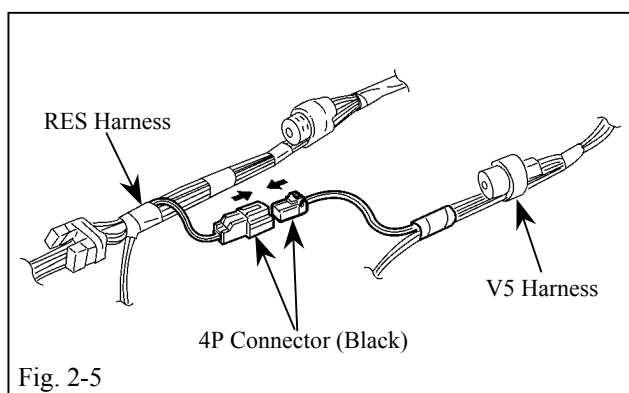
(1) Discard the black 4P female connector.

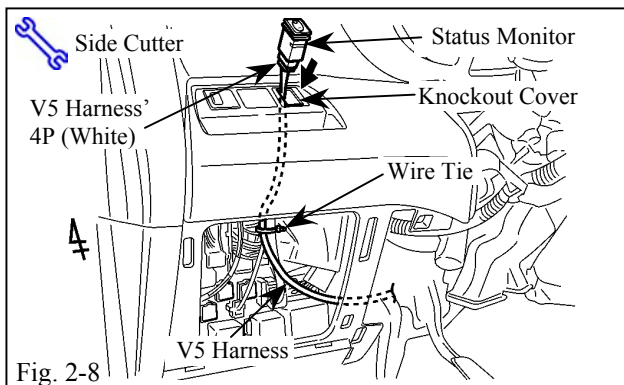
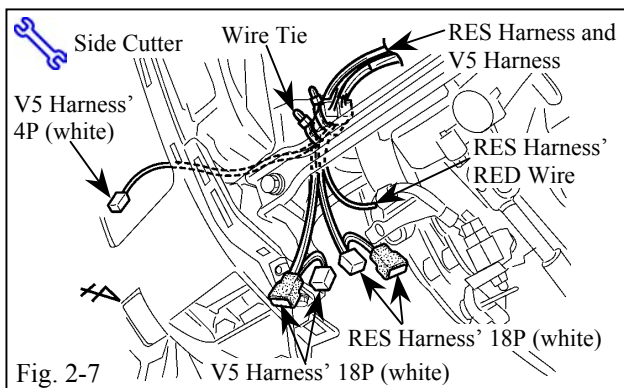
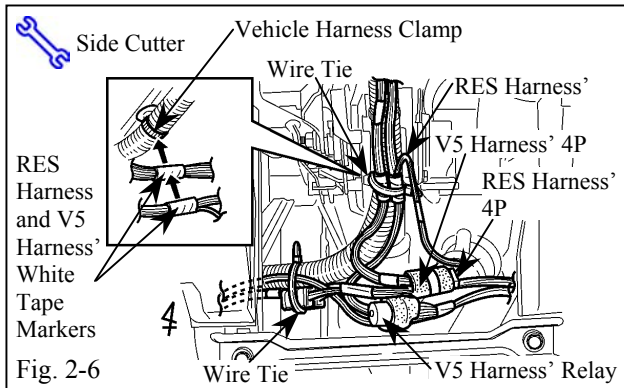
- (g) Locate and disconnect the black 4P connector on the V5 harness to separate the harness portions. (Fig. 2-4)

(1) Discard the separated harness (4P male connector and 8P connectors).



- (h) Connect the RES harness' black 4P male connector and V5 harness' black 4P female connector. (Fig. 2-5)



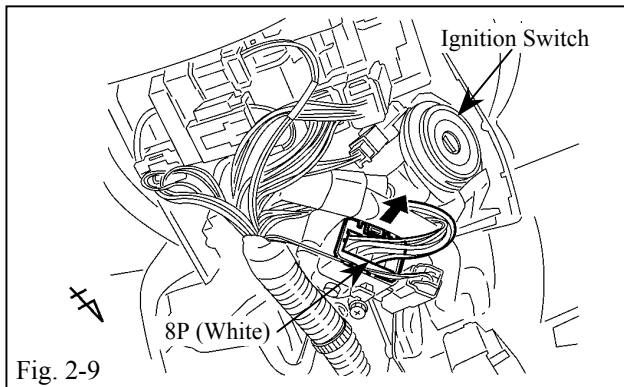


FOR RES HARNESS and V5 HARNESS
SIMULTANEOUS INSTALLATION ONLY.
(Steps i-p)

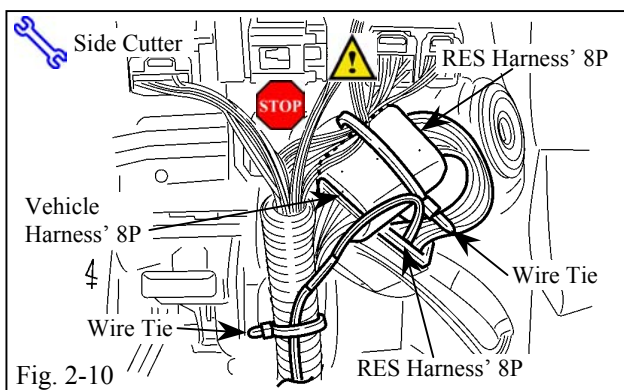


NOTE: Only perform these installation steps if the RES harness and V5 harness are being installed simultaneously.

- (i) Locate the vehicle's harness clamp on the steering column area. Secure the RES harness and V5 harness' white tape to the vehicle harness clamp with one wire tie. (Fig. 2-6)
- (j) Secure the RES harness' two relays and V5 harness to the vehicle harness with one wire tie. (Fig. 2-6)
- (k) Route the RES harness and V5 harness toward the driver side J/B area, then secure it to the vehicle harness with one wire tie. (Fig. 2-7)
- (l) Route the V5 harness' white 4P connector toward the driver side J/B area as shown. (Fig. 2-7)
- (m) Remove the knockout cover in the cluster panel, first space from the right. (Fig. 2-8)
- (n) Connect the V5 harness' white 4P connector to the status monitor. (Fig. 2-8)
 - (1) Status monitor is included in the V5 components kit.
- (o) Insert the status monitor into the knockout opening of the cluster panel. (Fig. 2-8)
- (p) Secure the V5 harness to the vehicle harness with one wire tie. (Fig. 2-8)



- (q) Locate and disconnect the white 8P connector from the ignition switch area. (Fig. 2-9)



- (r) Plug in the RES harness' white 8P connectors between the vehicle harness' 8P connector and the ignition switch. (Fig. 2-10)
- (1) Verify the connectors are plugged in securely.

- (s) Secure the 8P connector to the vehicle harness with one wire tie. (Fig. 2-10)

CAUTION: Position the 8P connector exactly as shown. Otherwise, when other vehicle parts are placed, serious damage may occur to the vehicle parts or accessories.



- (1) Do not secure the air bag harness (yellow connector wires).



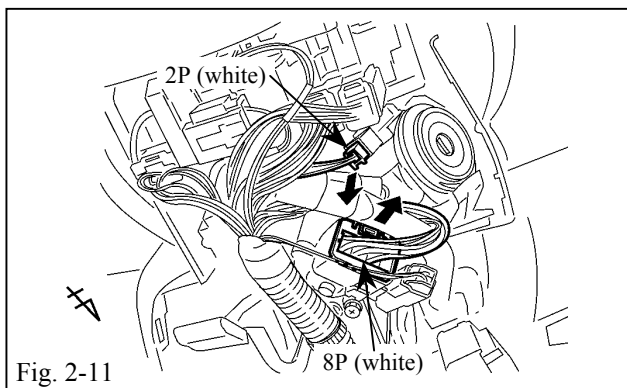
- (2) After securing the connector, temporarily install the steering column cover and check if tilt and telescopic movement of the steering is smooth and not interfered by any object.

- (t) Secure the RES harness to the vehicle harness with one wire tie. (Fig. 2-10)



- (1) After securing the RES harness, temporarily install adjacent vehicle parts carefully and make sure no wires are being pinched or pressed.

Go to step y.



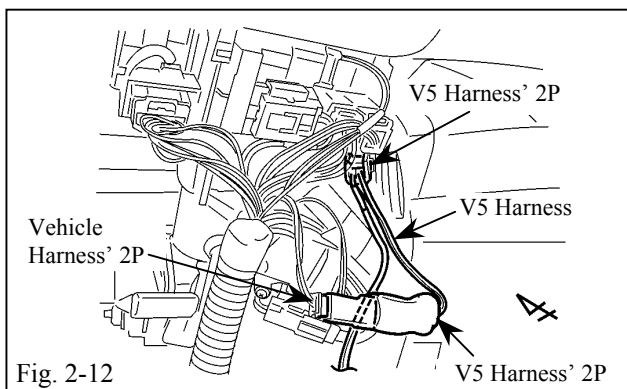
FOR RES HARNESS and V5 HARNESS
SIMULTANEOUS INSTALLATION ONLY.

(Steps u-w)

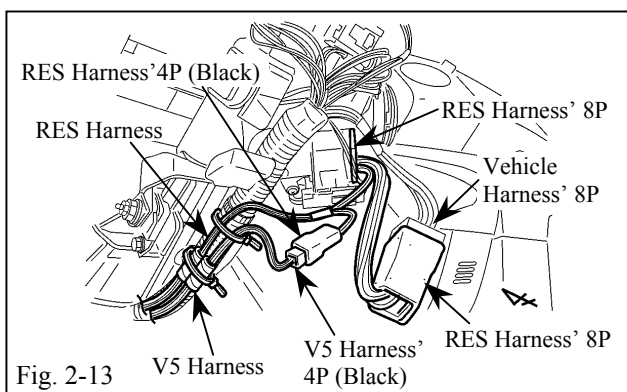


NOTE: Only perform these installation steps if the RES harness and V5 harness are being installed simultaneously.

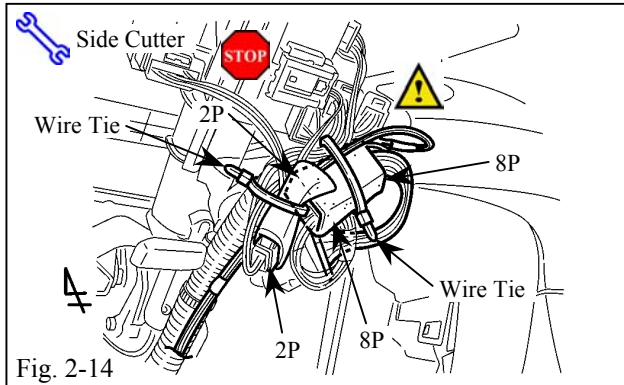
(u) Locate and disconnect the white 2P and white 8P connector from the ignition switch area. (Fig. 2-11)



(v) Plug in the V5 harness' white 2P connectors between the vehicle harness' 2P connector and the ignition switch. (Fig. 2-12)



(w) Plug in the V5 harness' white 8P connectors between the vehicle harness' 8P connector and the ignition switch. (Fig. 2-13)



FOR RES HARNESS and V5 HARNESS
SIMULTANEOUS INSTALLATION ONLY.
(Step x)



NOTE: Only perform this installation step on the RES harness and V5 harness installed simultaneously.

(x) Secure the 2P connectors and 8P connectors to the vehicle harness with two wire ties.
(Fig. 2-14)



CAUTION: Position the 8P and 2P connector exactly as shown. Otherwise when other vehicle parts are placed serious damages may occur to the vehicle parts or accessories.



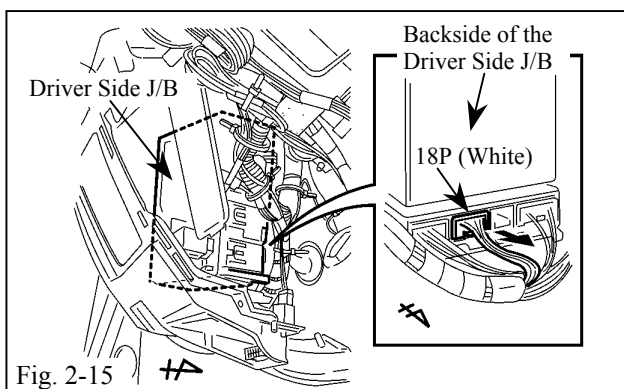
(1) Do not secure the air bag harness (yellow connector wires).



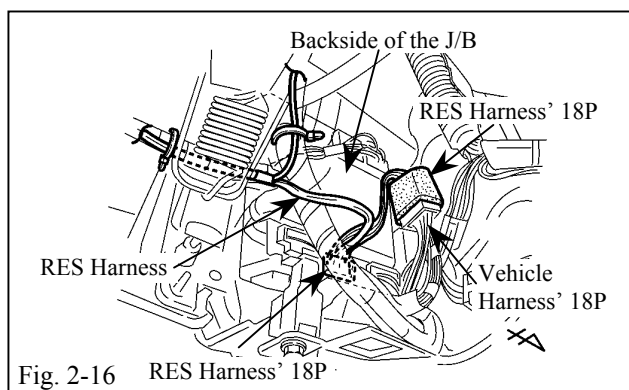
(2) After securing the connector, temporarily install on the steering column cover and check if tilt and telescopic movement of the steering is smooth and not interfered by any object.



(3) Check that no wires are being pinched or pressed.

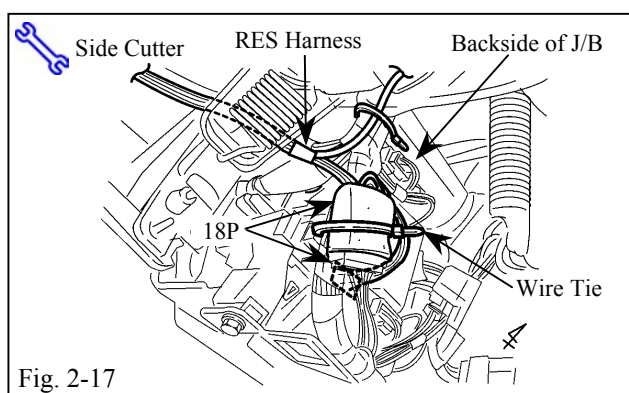


(y) Locate and disconnect the white 18P connector from the backside of the driver side J/B in the bottom of second space from the left. (Fig. 2-15)



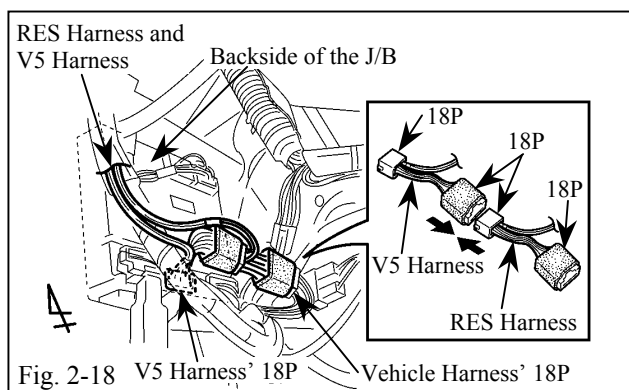
(z) Plug in the RES harness' white 18P connectors between the vehicle harness' 18P connector and the backside of the driver side J/B. (Fig. 2-16)

(1) Verify the connectors are plugged in securely.



(aa) Secure the 18P connector to the vehicle harness with one wire tie. (Fig. 2-17)

Go to step ee.



FOR RES HARNESS and V5 HARNESS
SIMULTANEOUS INSTALLATION ONLY.
(Steps bb-cc)

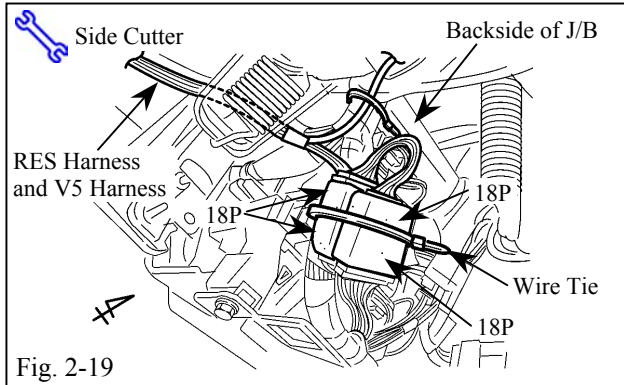


NOTE: Only perform these installation steps if the RES harness and V5 harness are being installed simultaneously.

(bb) Connect the RES harness' white 18P male connector to the V5 harness' white 18P female connector. (Fig. 2-18)

(cc) Plug in the V5 harness' white 18P connector into the driver side J/B. Then connect the RES harness' white 18P connector to the vehicle harness' white 18P connector. (Fig. 2-18)

(1) Verify the connectors are plugged in securely.

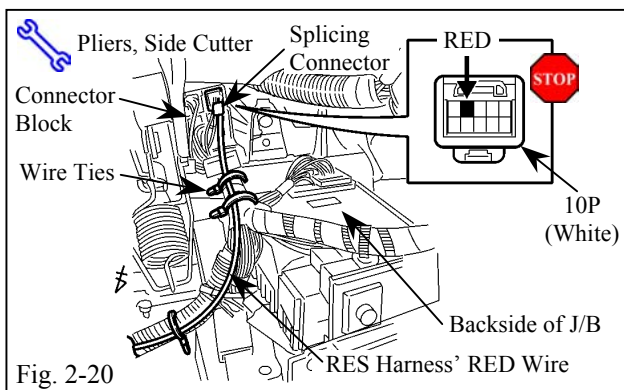


FOR RES HARNESS and V5 HARNESS
SIMULTANEOUS INSTALLATION ONLY.
(Step dd)



NOTE: Only perform these installation steps if the RES harness and V5 harness are being installed simultaneously.

(dd) Secure the two 18P connectors to the vehicle harness with one wire tie. (Fig. 2-19)



(ee) Look up at the backside of the driver side J/B, then locate the white 10P connector in the connector block. (Fig. 2-20)

(ff) Locate the white 10P connector's RED wire. Attach the RES harness' RED wire with a splicing connector. (Fig. 2-20)



CAUTION: Make sure the RED wire is spliced in the WHITE connector. There is an additional gray connector located around the white connector. Do NOT splice the red wire into the gray connector.

(1) Turn the connector so the wires face you and the tab is on top.



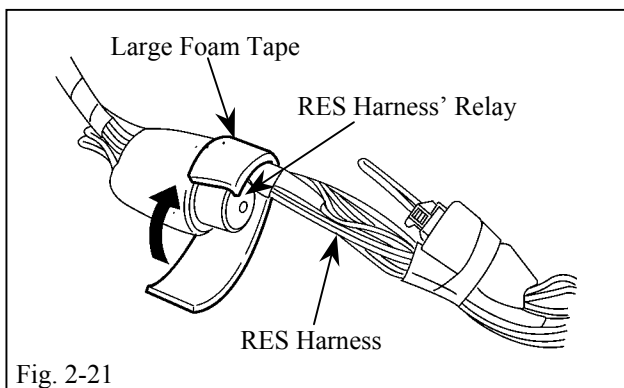
(2) Verify the correct wire is chosen for splicing.

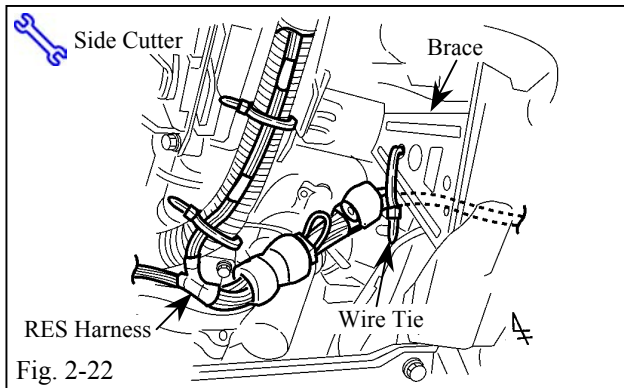


(3) Verify the splicing connector is applied properly.

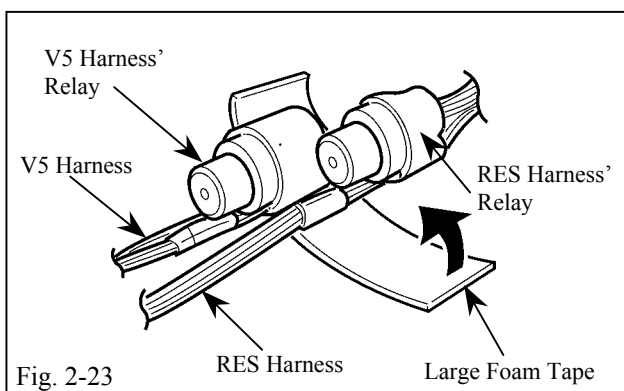
(gg) Secure the RES harness' RED wire to the vehicle harness with one wire tie. (Fig. 2-20)

(hh) Locate the RES harness' relay from the steering shaft area. Then, wrap the relay's metal part with one large foam tape. (Fig. 2-21)





- (ii) Route the RES harness toward the center cluster area, then secure it to the driver side metal brace with one wire tie. (Fig. 2-22)

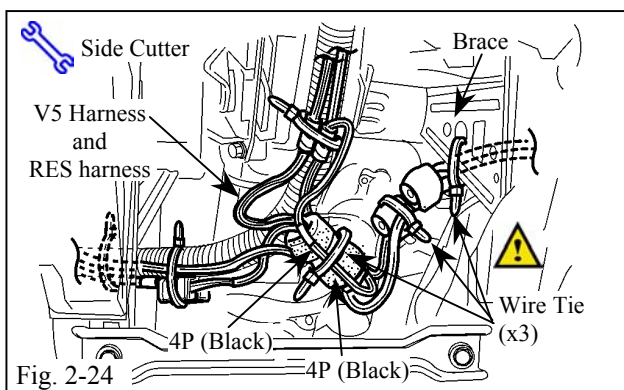


FOR RES HARNESS and V5 HARNESS
SIMULTANEOUS INSTALLATION ONLY.
(Steps jj-ll)



NOTE: Only perform these installation steps if the RES harness and V5 harness are being installed simultaneously.

- (jj) Locate the RES harness' relay and V5 harness' relay from the steering column area, then secure two relays with large foam tape. (Fig. 2-23)

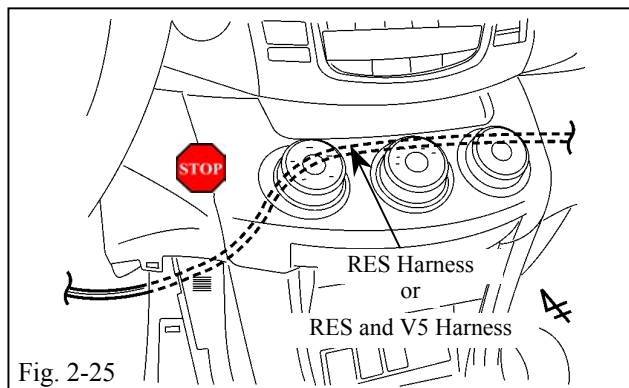


- (kk) Route the RES harness and V5 harness toward the center cluster area. (Fig. 2-24)

- (ll) Secure the 4P connector and relay to the RES harness and V5 harness with two wire ties. Secure the RES harness and V5 harness to the driver side metal brace with one wire tie. (Fig. 2-24)

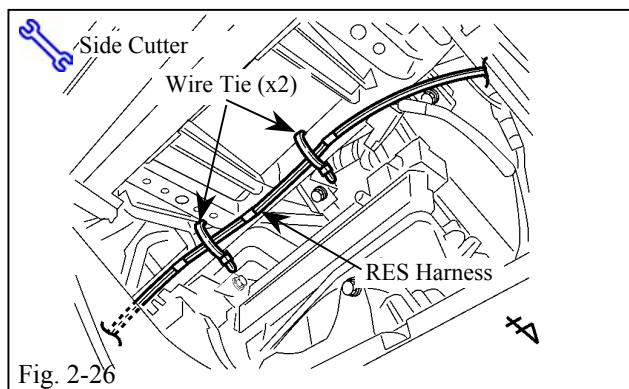
- (1) After securing the 4P connector, temporarily install adjacent vehicle parts carefully and check that no wires are being pinched or pressed.



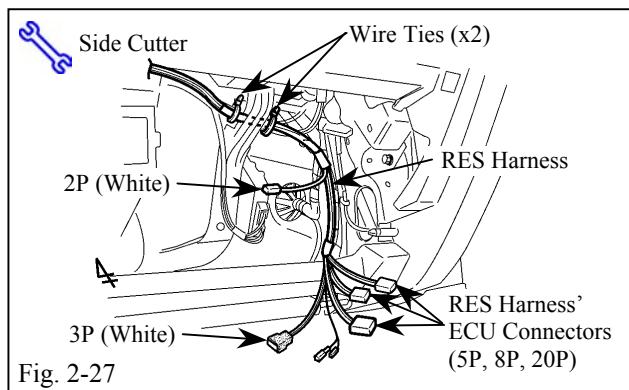


(mm) Route the RES harness (or RES and V5 harness) toward the glove box area. (Fig. 2-25)

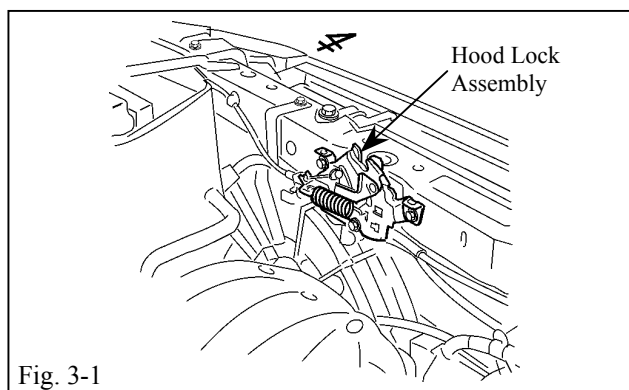
- (1) Route the harness away from any moving parts such as levers, etc.



(nn) Route the RES harness to the glove box area, then secure it to the reinforcement with two wire ties. (Fig. 2-26)



(oo) Route the RES harness toward the passenger side cowl area, then secure it to the vehicle harness with two wire ties. (Fig. 2-27)

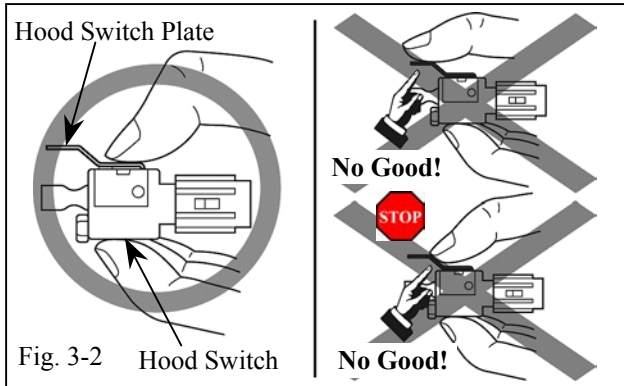


3. Hood Switch and Hood Switch Wire Harness Installation.

(a) Locate the hood lock assembly in the engine compartment. (Fig. 3-1)



- (1) Do not remove the hood lock assembly.

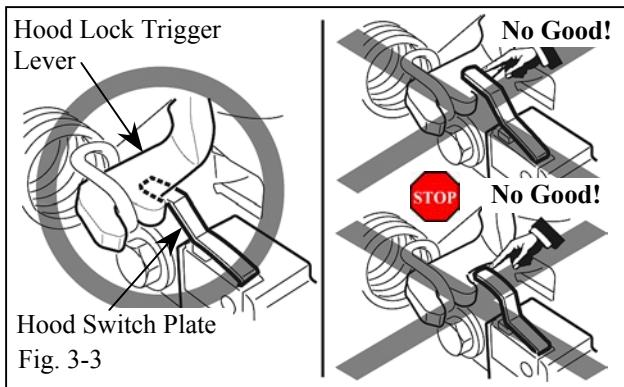


(b) Grasp and hold the hood switch vertically across its body.

When holding the hood switch, your finger must stay at the base of the hood switch plate to prevent damage the hood switch plate.

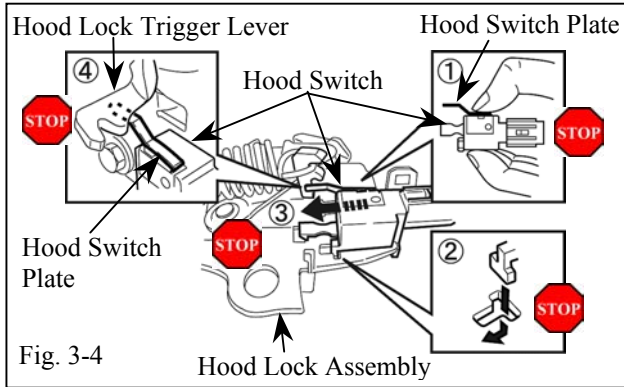
(Fig. 3-2)

- (1) Do not hold or press down the hood switch plate by its top part or by its sloped part. Otherwise the hood switch plate will be damaged.
- (2) If the hood switch is broken or deformed, the remote engine starter will not function.



(c) Install the hood switch to the hood lock assembly. The hood switch plate is inserted under the hood lock trigger lever. (Fig. 3-3)

- (1) Hood switch plate must not press against the edge of the hood lock lever.
- (2) The hood switch plate must not go over the hood lock trigger lever.
- (3) If the hood switch is broken or damaged, the remote engine starter will not function.



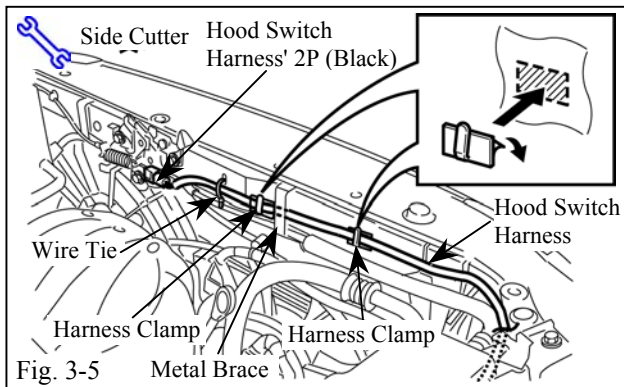
(d) Grasp and hold the hood switch as shown. (Fig. 3-4)

(e) Locate the opening on the hood lock assembly. (Fig. 3-4)

(f) Fit the hood switch on the hood lock assembly by sliding the hood switch in the direction of the arrow as shown. (Fig. 3-4)

(1) Make sure the hood switch reaches the end of the sliding.

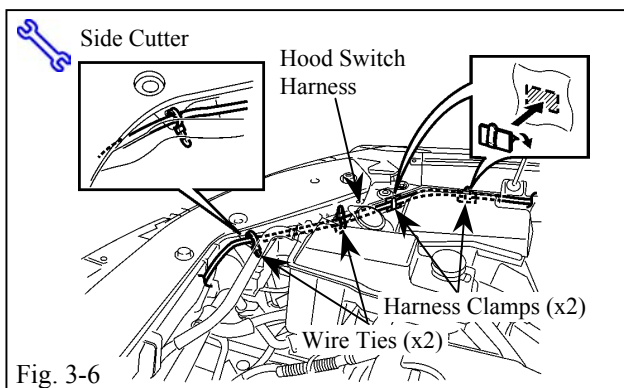
(2) Check that the hood switch plate is positioned under the hood lock trigger lever.



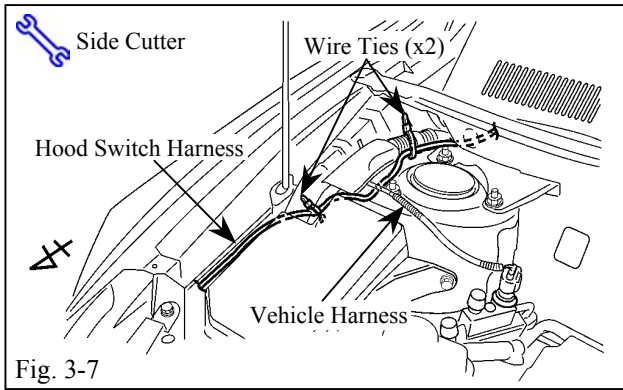
(g) Plug in the hood switch harness' black 2P connector to the hood switch. (Fig. 3-5)

(1) Verify the connectors are plugged in securely.

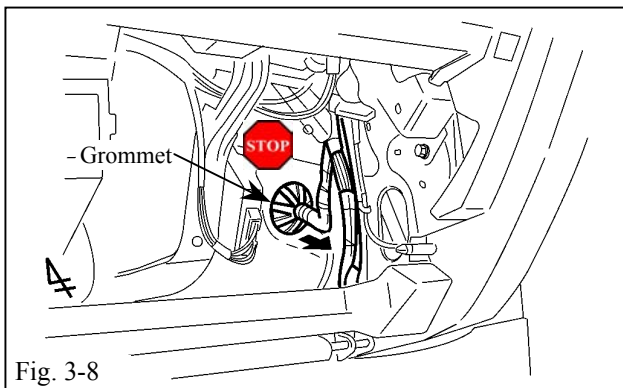
(h) Route the RES harness in the opening between the metal brace and engine compartment support member, then secure the hood switch harness to the engine compartment support member with one wire tie and two harness clamps. Clean engine compartment area with cleaning solution where harness clamps are installed. (Fig. 3-5)



(i) Route the RES harness toward the fuse box area, then secure the RES harness to the engine compartment support member with two wire ties. Attach two harness clamps to the engine compartment wall as shown, then secure the RES harness. (Fig. 3-6)

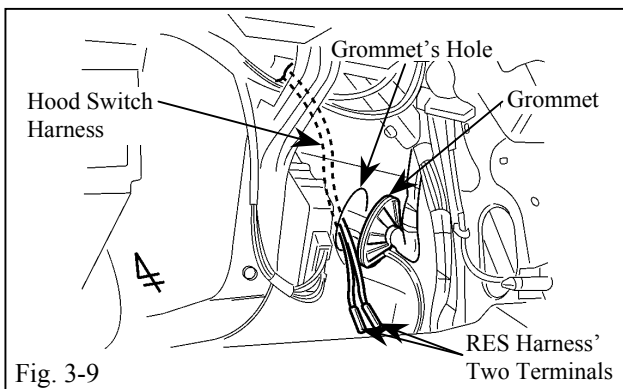


- (j) Route the RES harness toward the bulkhead, then secure the RES harness to the vehicle harness with two wire ties. (Fig. 3-7)

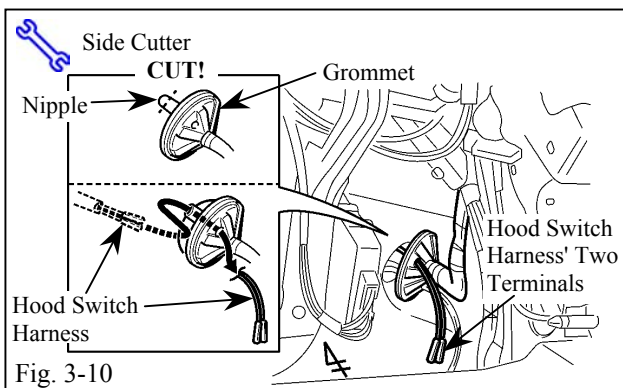


- (k) Locate the grommet in the glove box area, then slowly pull the grommet to the compartment side. (Fig. 3-8)

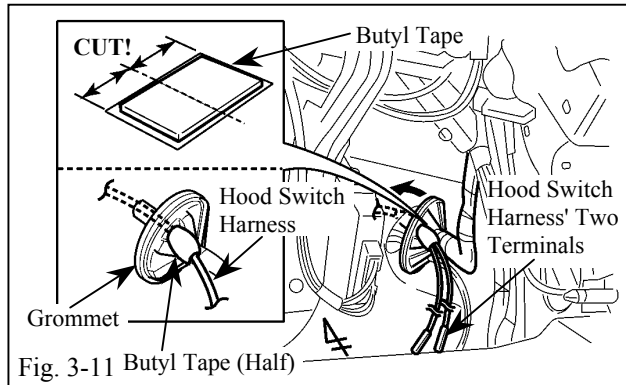
- (1) Do not pull the grommet to excess.
(2) Do not tear the grommet.



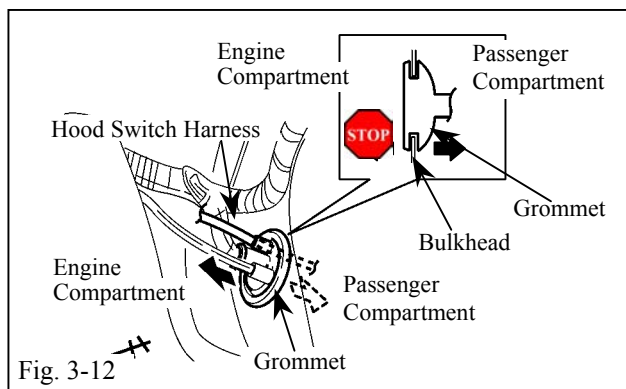
- (l) From the engine compartment, run the hood switch harness' two terminals through the removed grommet's hole, from the engine compartment to the passenger compartment. (Fig. 3-9)



- (m) Locate the nipple in the grommet, then cut off the tip of the grommet's nipple. (Fig. 3-10)
- (1) Cut off only the tip.
(2) Do not cut the vehicle harness.
- (n) Spray a mix of soap and water on the grommet first, then run the two terminals of the hood switch harness through the hole that was cut off the grommet, from the engine compartment to the passenger compartment. (Fig. 3-10)

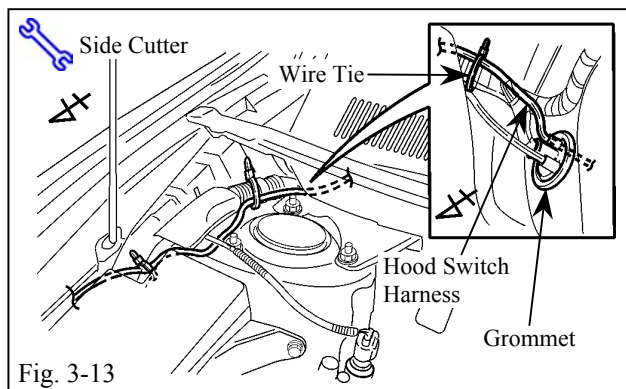


- (o) Cut the butyl tape into two pieces. Then, using half of the butyl tape, fill the opening and wrap the wires. (Fig. 3-11)

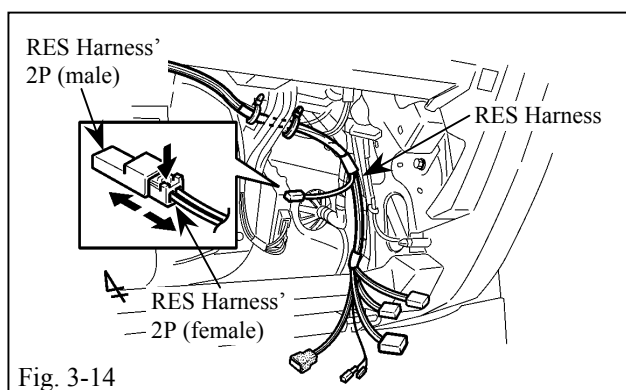


- (p) From the engine compartment, lightly pull the vehicle harness, and fit the grommet into the bulkhead of the engine compartment. (Fig. 3-12)

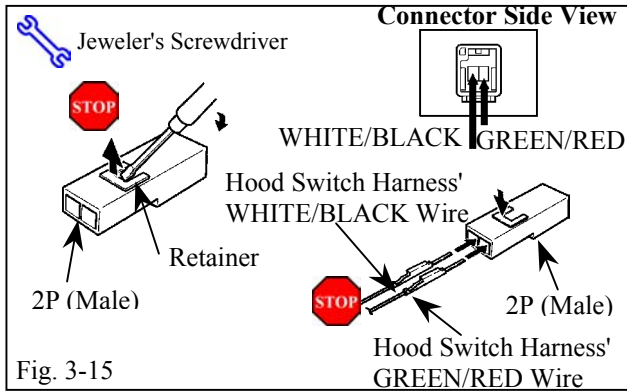
- (1) Verify the grommet is installed properly. If the grommet does not fit into the firewall, then water will come into the passenger compartment.



- (q) Secure the hood switch harness to the vehicle harness with one wire tie in the engine compartment area. (Fig. 3-13)



- (r) Locate the RES harness' white 2P connector in the glove box area, then disconnect the white male 2P connector plugged into the RES harness. (Fig. 3-14)



(s) Using a small jeweler's screwdriver, lift the terminal retainer on the back of the empty connector. (Fig. 3-15)

(1) Do not pull out the retainer.

(t) Insert the terminal at the end of the hood switch harness' WHITE/BLACK wire into empty 2P connector's left side opening. (Fig. 3-15)

(u) Insert the terminal at the end of the hood switch harness' GREEN/RED wire into empty 2P connector's right side opening. (Fig. 3-15)

(1) Turn the connector so the wires face you and the tab is on top.



(2) Verify the correct wire is chosen.

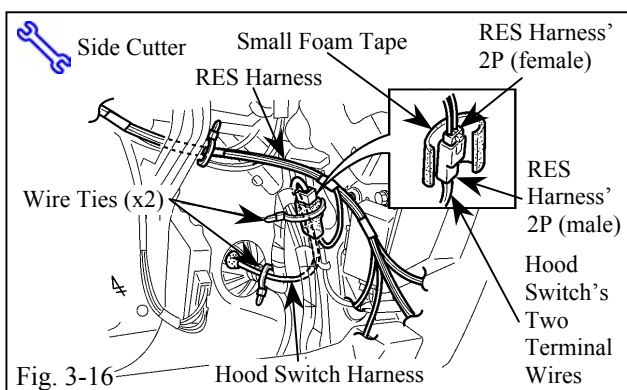


(3) Verify the terminal is inserted and seated properly.



(4) The terminal should not come out when pulled lightly from the back. If the terminal comes off, then push it in further until securely seated.

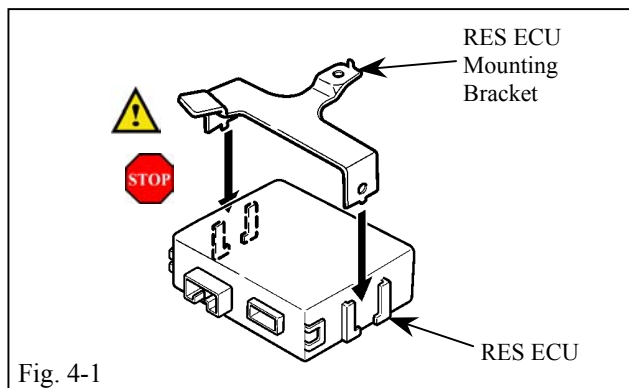
(v) Close the retainer. (Fig. 3-15)



(w) Connect the male 2P connector to the female 2P connector, then wrap the 2P connector with one small foam tape. (Fig. 3-16)

(x) Secure the 2P connector to the vehicle harness with one wire tie. (Fig. 3-16)

(y) Secure the hood switch harness to the vehicle harness with one wire tie. (Fig. 3-16)



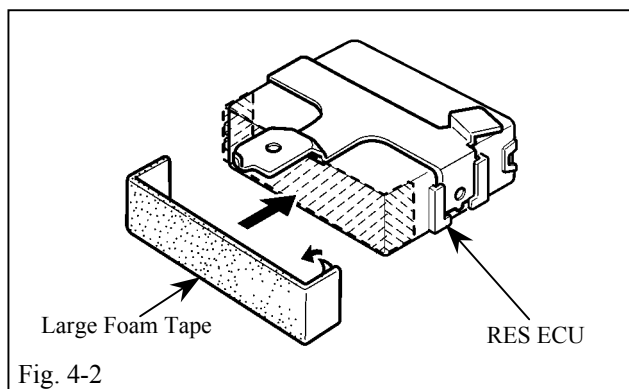
4. RES ECU and BUS ECU Preparation and Installation.

- (a) Insert the ECU mounting bracket into the indicated bracket slots on the RES ECU. (Fig. 4-1)

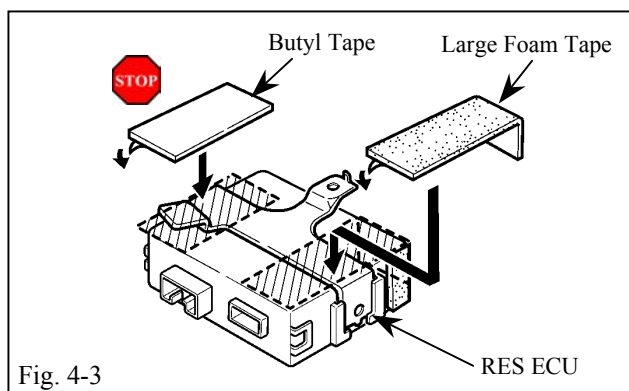
(1) Insert the mounting bracket into the correct ECU's slot.

(2) The bracket is permanently attached once installed.

(3) Ensure the bracket is firmly attached to the ECU.

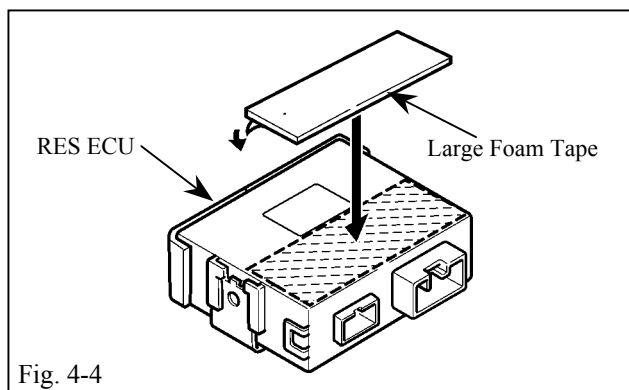


- (b) Apply one large foam tape to the RES ECU opposite side of the ECU connectors. (Fig. 4-2)

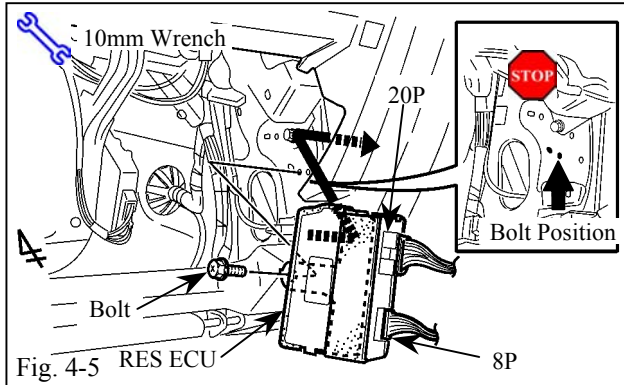


- (c) Using 3M™ Prep Solvent-70, clean the area indicated on the RES ECU as shown. Apply one butyl tape onto the RES ECU. (Fig. 4-3)

- (d) Apply one large foam tape onto the RES ECU as shown. (Fig. 4-3)



- (e) Apply one large foam tape onto the RES ECU as shown. (Fig. 4-4)



(f) Connect the RES harness' ECU connectors (8P and 20P) to the RES ECU. (Fig. 4-5)



(g) Using 3M™ Prep Solvent-70, clean the RES ECU install area.

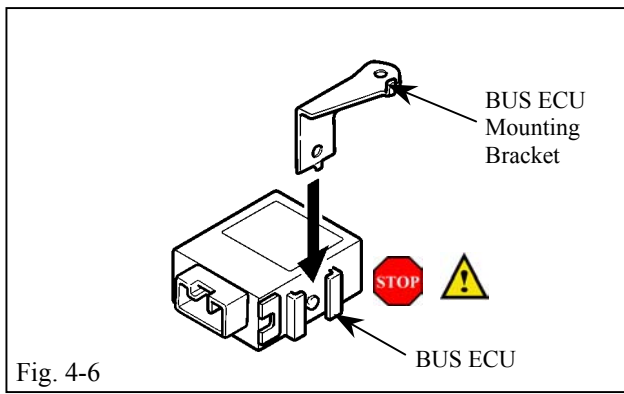
Install the ECU mounting bracket with one bolt to the right side of the glove box area as shown. (Fig. 4-5)



(1) Verify the bolt is tightened secured.



(2) Press the RES ECU to right side of the vehicle's body in the glove box area.



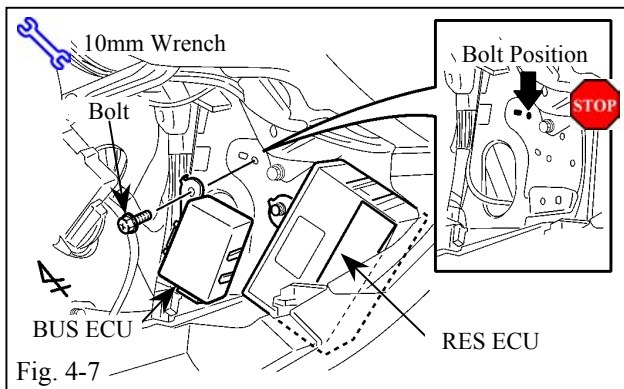
(h) Insert the BUS ECU mounting bracket into the indicated bracket slots on the BUS ECU. (Fig. 4-6)

(1) Insert the mounting bracket into the correct ECU's slot.

(2) The bracket is permanently attached once installed.



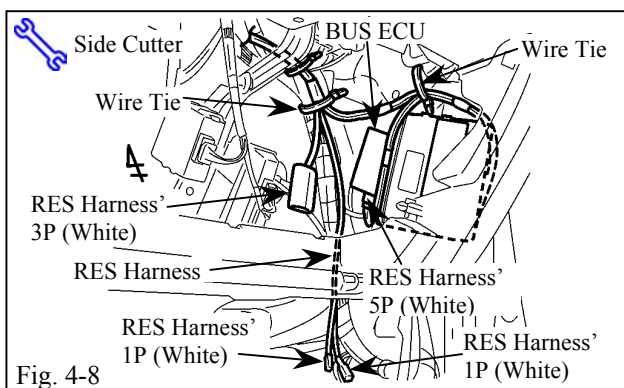
(3) Ensure the bracket is firmly attached to the ECU.



(i) Install the BUS ECU mounting bracket with one bolt to the right side of the glove box area as shown. (Fig. 4-7)



(1) Verify the bolt is tightened secured.



(j) Connect the RES harness' white 5P connector to the BUS ECU. (Fig. 4-8)

(k) Secure the RES harness to the vehicle harness with one wire tie. (Fig. 4-8)

(l) Route the RES harness' white 3P connector and white 1P connectors toward the passenger's side cowl area. (Fig. 4-8)

5. RES Harness Installation (continued)

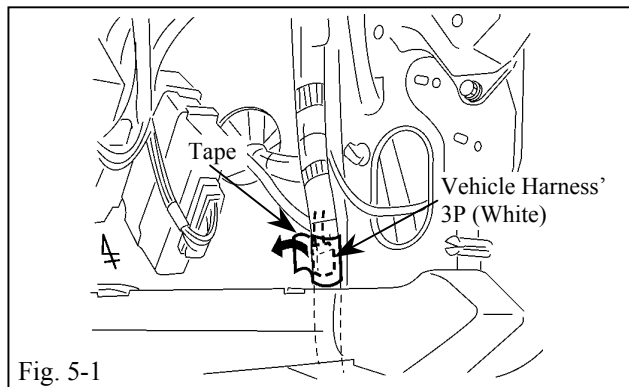


Fig. 5-1

- (a) Locate and remove the tape securing the vehicle harness' white 3P connector from the right side of the glove box area. (Fig. 5-1)

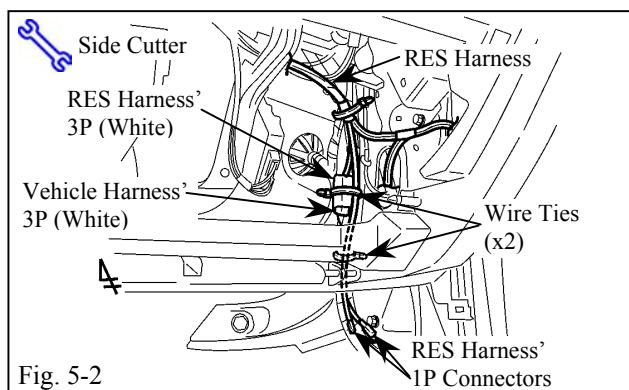


Fig. 5-2

- (b) Plug in the RES harness' white 3P connector to the vehicle harness' white 3P connector. Secure the 3P connector to the vehicle harness with one wire tie. (Fig. 5-2)
- (c) Secure the RES harness to the vehicle harness with one wire tie. (Fig. 5-2)

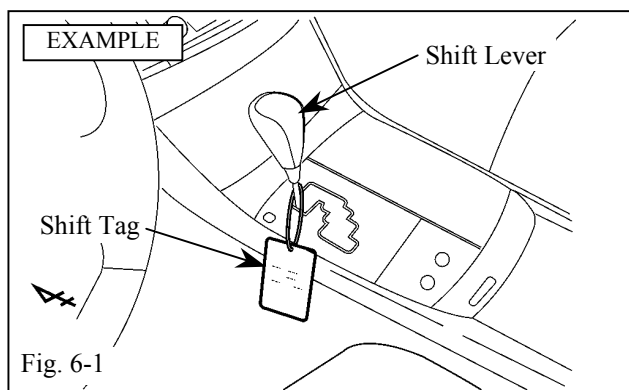
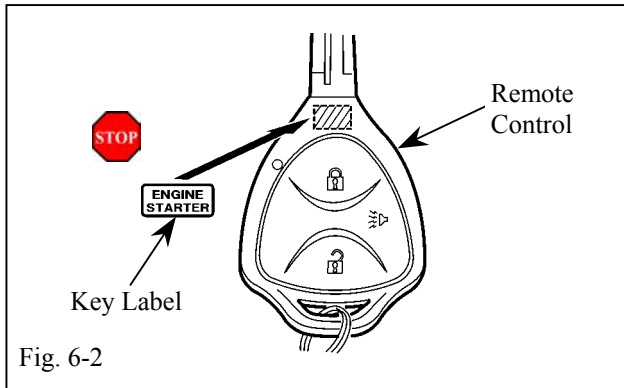


Fig. 6-1

6. Tags and Labels Installation.

- (a) Hang the shift tag on the shift lever. (Fig. 6-1)



- (b) Remove one of the remote controls from its protective bag. With the utility knife, neatly cut a slit to open the bag. (Fig. 6-2)
- (c) Using 3M™ Prep Solvent-70, clean the area indicated on the remote control key. (Fig. 6-2)

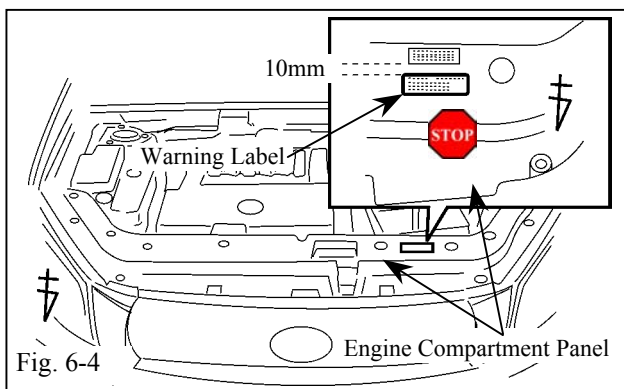
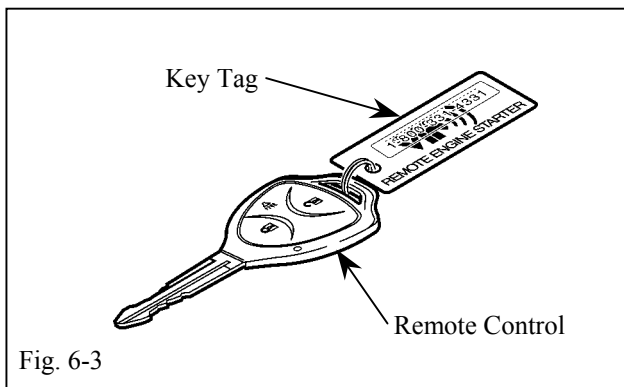
(1) When cleaning with 3M™ Prep Solvent-70, follow the manufacturer's directions. Do not allow cleaner to air dry.

- (d) Remove the backing sheet and attach the key label to the remote control as shown. (Fig. 6-2)

(1) Use a piece of clean adhesive tape to lift the label off its protective backing sheet.

(2) Do not touch the label's adhesive surface.

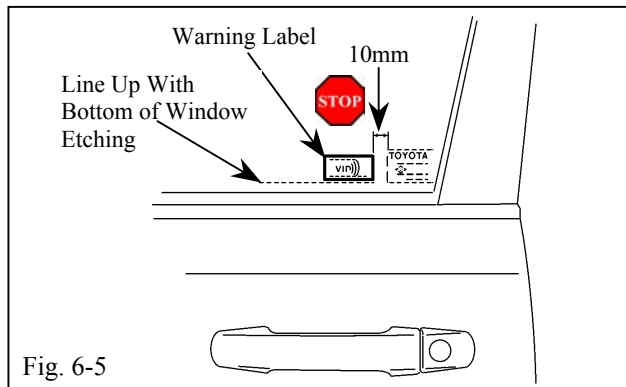
- (e) Attach a key tag to each master key ring. (Fig. 6-3)



- (f) Using 3M™ Prep Solvent-70, clean the area indicated on the engine compartment cover as shown. (Fig. 6-4)

(1) Do not allow cleaner to air dry.

- (g) Remove the backing sheet and attach the warning label to the engine compartment cover 10mm above the vehicle label's placement box. Do not touch the label's adhesive surface. (Fig. 6-4)



(h) Using household Windex, clean the inside surface of the front door's windows.

(Fig. 6-5)

(1) When cleaning with household Windex, follow the manufacturer's directions.

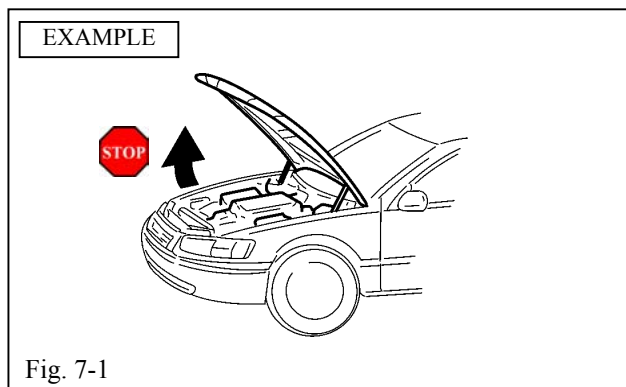
(i) Place the window labels on the inside surface of the front door's windows as shown.

(Fig. 6-5)

(1) Use a piece of clean adhesive tape to lift the labels off their protective backing sheet.



(2) Do not touch the labels' adhesive surface.

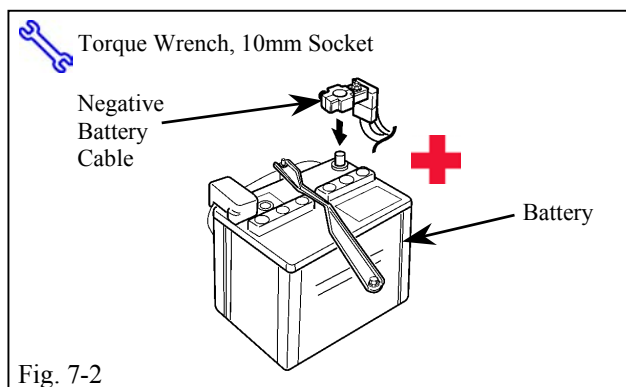


7. Registration Setting Procedure.

(a) Open the hood. (Fig. 7-1)



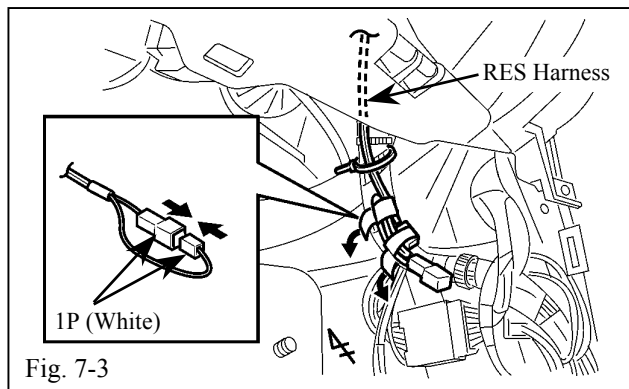
(1) Do not close the hood during the registration setting procedure. (Steps b-e)



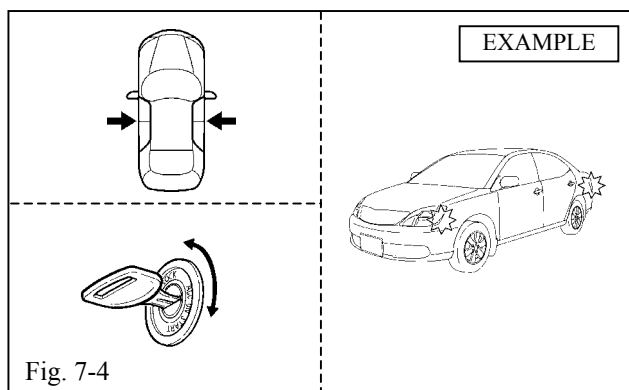
(b) Temporarily reconnect the vehicle's negative battery cable. (Fig. 7-2)



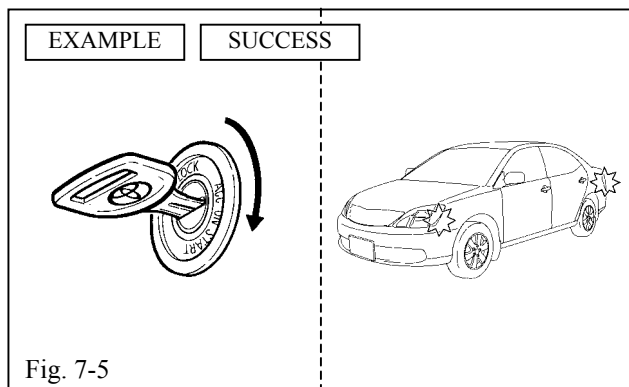
(1) Do not touch the positive terminal with any tool when replacing the cable.



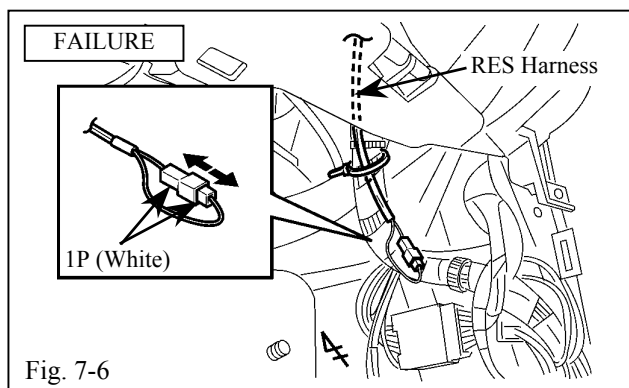
- (c) Locate and disconnect the tape securing the RES harness' white 1P connectors from the passenger side cowl area and connect it.
(Fig. 7-3)



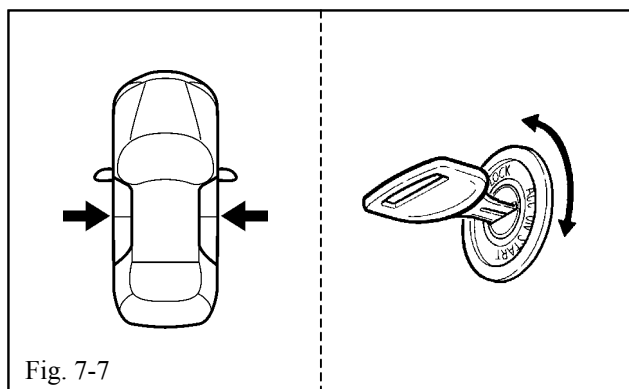
- (d) Close all doors. Insert the key into the ignition switch and turn it from LOCK to ON 5 times (ending at ON). (Fig. 7-4)
The hazard lights flash once. (Fig. 7-4)
Turn the key to the "OFF" position.



- (e) Start the engine, after 10 seconds stop the engine.
The hazard lights flash once. Registration completed. (Fig. 7-5)



- (f) If you fail this procedure, the hazard lights flash twice. Registration will not set.
Disconnect the RES harness white 1P connector from the passenger side cowl area.
(Fig. 7-6)
Start again from Step c.

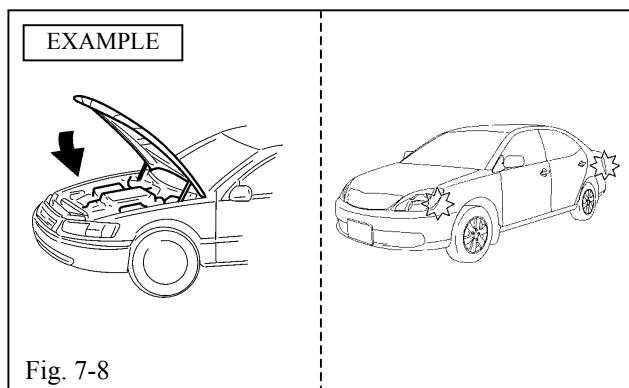


FOR VEHICLES WITHOUT IMMOBILIZER
SYSTEM ONLY (Steps g-i)



NOTE: Do not perform this step on Immobilizer vehicles.

(g) Close all doors. Insert the key into the ignition switch and turn it from LOCK to ON 5 times (ending at ON). (Fig. 7-7)

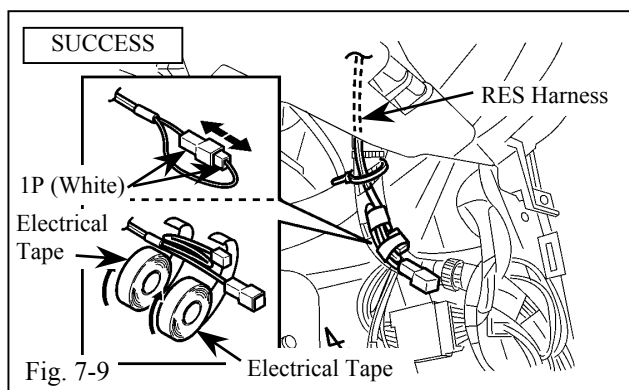


(h) Close the hood.

The hazard lights flash once. Registration completed (Fig. 7-8)

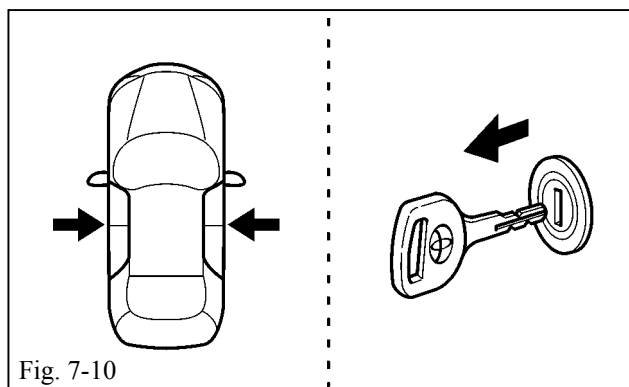
(1) If you fail this procedure, the hazard lights flash 3 times. Registration will not set.

Step again from Step a.



(i) Disconnect the RES harness' white 1P connectors. Secure the RES harness and 1P connectors with electrical tape as shown. (Fig. 7-9)

Turn the key to the "OFF" position and remove the key from the ignition switch. (Fig. 7-9)

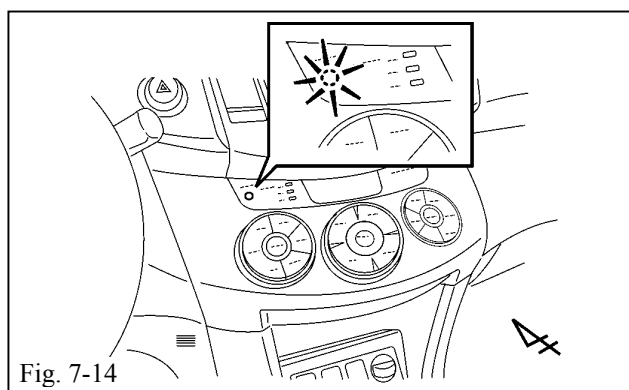
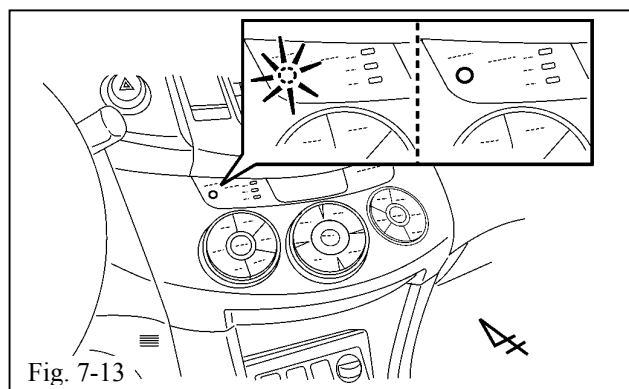
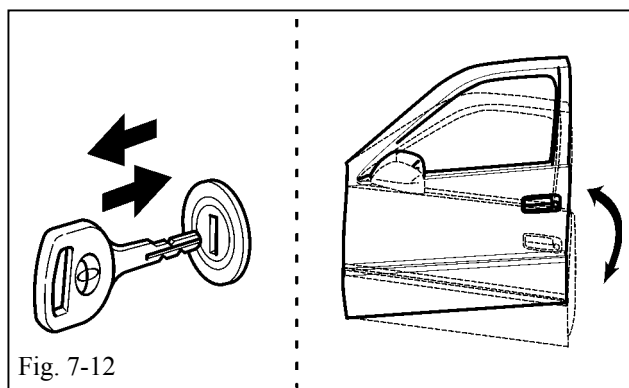
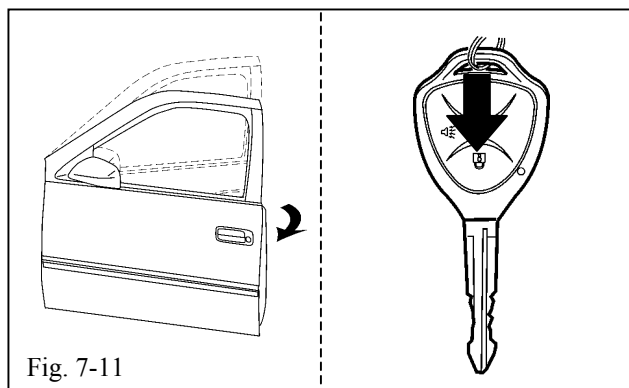


FOR VEHICLES WITH IMMOBILIZER
SYSTEM ONLY (Step j)



NOTE: Only perform this step on Immobilizer vehicles.

(j) Close all doors. Insert the key into the ignition switch and turn it to the "ON" position. Then turn it to the "OFF" position and remove the key from the ignition switch. (Fig. 7-10)



FOR VEHICLES WITH IMMOBILIZER
SYSTEM ONLY (Steps k-o)



NOTE: Only perform this step on Immobilizer vehicles.

(k) Open the driver's door. Using the remote control, press the lock button twice within 2 seconds, then press and hold the lock button 4 seconds. (Fig. 7-11)

(l) Insert the key into the ignition switch, and remove it 6 times. Then insert and leave the key in the ignition switch. (Fig. 7-12)

(1) Complete this step within 20 seconds of opening the driver's door.

(m) Close the driver's door, then open and close the driver's door 7 times. (Fig. 7-12)

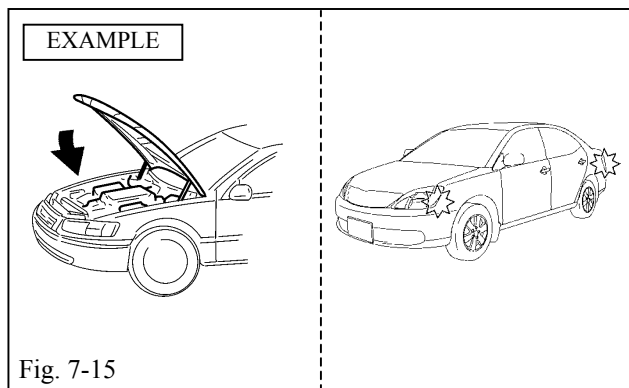
(1) Complete these steps within 35 seconds, with the driver's door closed when finished.

(2) If you fail this procedure or exceed 35 seconds during programming steps, Registration will not set. Start again from step j.

(n) After the registration process has been completed successfully.

(1) Watch the LED light up for 1 second then turn off. (Fig. 7-13)

(o) After the light is off for 1 second, the LED should light up again and stay on until the key is removed from ignition. (Fig. 7-14)



FOR VEHICLES WITH IMMOBILIZER SYSTEM ONLY (Steps p-q)



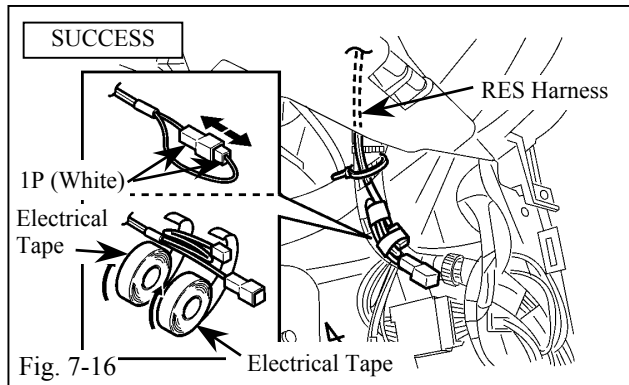
NOTE: Only perform this step on Immobilizer vehicles.

(p) Close the hood.

The hazard lights flash twice. Registration completed (Fig. 7-15)

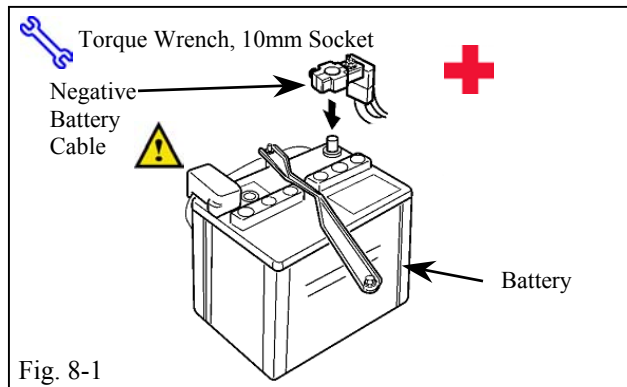
(1) If you fail this procedure, the hazard lights flash 3 times. Registration will not set.

Step again from Step a.



(q) Disconnect the RES harness' white 1P connectors. Secure the RES harness and 1P connectors with electrical tape as shown. (Fig. 7-16)

Turn the key to the "OFF" position and remove the key from the ignition switch. (Fig. 7-16)



8. Completing the Installation.

- (a) Complete the reassembly of the vehicle.
 - (1) Reconnect any disconnected connectors.
 - (2) Verify the panels fit together properly with no uneven gaps between them.
- (b) Position the negative battery cable at the original factory position. (Fig. 8-1)





 - (1) Tighten the nut to 36 in·lbf ± 1.5.
 - (2) Do not touch the positive terminal with any tool when replacing the cable.
- (c) Clean up and remove any trash.
- (d) Place the owner's manual, left in its protective bag, in the glove box.
- (e) Reset the power windows.
 - (1) Turn ignition key to the "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 minimum of one (1) second.
- (f) Reset the power moon roof.
 - (1) Push and hold the moon roof switch to the close side until the moon roof closes. Hold for a further two (2) seconds.

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

Check:	Look For:
<u>Accessory Function Checks</u>	Function
Fit the appropriate fuse before beginning. Close the hood, place the shift lever in the “P” (parking) position, set the parking brake, remove the key from the ignition, close all doors, and exit the vehicle. ☐ Press the remote control’s lock button twice within 2 seconds, then press and hold the lock button 3 seconds. ☐ Press the remote control’s unlock button. ☐ Press the remote control’s lock button twice within 2 seconds, then press and hold the lock button 3 seconds to start the engine. With the engine running, press and hold the remote control’s lock button 2 seconds. ☐ Press the remote control’s lock button twice within 2 seconds, then press and hold the lock button 3 seconds to start the engine. Unlock the doors with the key. Enter the vehicle and close all doors. ☐ Press the remote control’s lock button twice within 2 seconds, then press and hold the lock button 3 seconds to start the engine. With the engine running, manually unlock any door with the inside lock switch.	1. The hazard lights flash after 3 seconds. The engine starts. The hazard lights flash repeatedly for 20 seconds. 2. The engine stops. The hazard lights flash twice. 3. Refer to Step 1. The engine stops. The hazard lights flash once. 4. Refer to Step 1. The engine stops. The hazard lights flash once. 5. Refer to Step 1. The engine stops. The hazard lights flash once. The security alarm triggers.

TOYOTA RAV4 2006 - TVIP V4 (REMOTE ENGINE STARTER)

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

Check:

- ☐ Press the remote control's lock button twice within 2 seconds, then press and hold the lock button 3 seconds to start the engine. With the engine running, pull the hood release handle.

Exit the vehicle, close the hood, then enter the vehicle and close all doors.

- ☐ Press the remote control's lock button twice within 2 seconds, then press and hold the lock button 3 seconds to start the engine. With the engine running, push on the foot brake.

- ☐ Press the remote control's lock button twice within 2 seconds, then press and hold the lock button 3 seconds to start the engine. With the engine running, insert the key into the ignition switch.

Look For:

6. Refer to Step 1.
The engine stops.
The hazard lights flash once.
The security alarm triggers.

7. Refer to Step 1.
The engine stops.
The hazard lights flash once.

8. Refer to Step 1.
The engine stops.
The hazard lights flash once.

Vehicle Function Checks

- ☐ Head Lights
☐ High Beams
☐ Turn Signal Lights
☐ Tail Lights
☐ Stop Lights
☐ Backup Lights
☐ Hazard Lights
☐ Marker Lights
☐ Dome/Courtesy Lights

Functioning Head Lights
Functioning High Beams
Functioning Turn Signal Lights
Functioning Tail Lights
Functioning Stop Lights
Functioning Backup Lights
Functioning Hazard Lights
Functioning Marker Lights
Functioning Dome/Courtesy Lights

TOYOTA RAV4 2006 - TVIP V4 (REMOTE ENGINE STARTER)

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

Check:

- ☐ Panel/Switch Illumination
- ☐ Accessory Controls/Illumination (if equipped)
- ☐ Key Sensor Buzzer
- ☐ Fog Lights (if equipped)
- ☐ Daytime Running Lights (if equipped)
- ☐ Trunk/Tailgate/Bed Lights (if equipped)
- ☐ Glove Box Light (if equipped)
- ☐ Cruise Control Light (if equipped)
- ☐ Seat Belt Warning Light

- ☐ Air Bag Warning Light

- ☐ ABS Light (if equipped)
- ☐

- ☐ Lamp Failure Sensor (if equipped)

- ☐ Track/Skid Control Light (if equipped)

- ☐ HVAC
- ☐ Power Locks (if equipped)

Look For:

Functioning Controls/Illumination

Functioning Accessory

Functioning Key Sensor

Functioning Fog Lights

Functioning DR Lights

Functioning Lights

Functioning Glove Box Light

Functioning Cruise Control Light

Functioning Seat Belt Warning Light. If the warning light remains on, it may indicate a system malfunction.

Functioning Air Bag Warning Light. If the warning light remains on, it may indicate a system malfunction.

Functioning ABS Light. If the warning light remains on, it may indicate a system malfunction.

Functioning Lamp Failure Light. If the warning light remains on, it may indicate a system malfunction.

Functional Track/VSC Light. If the warning light remains on, it may indicate a system malfunction.

Functioning HVAC Controls

Functioning Power Locks

TOYOTA RAV4 2006 - TVIP V4 (REMOTE ENGINE STARTER)

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

Check:

- ☐ Power Windows (if equipped)
- ☐ Power Seats (if equipped)
- ☐ Horn
- ☐ Gauges
- ☐ Front Wiper/Washer
- ☐ Rear Wiper/Washer (if equipped)
- ☐ Clock (if equipped)
- ☐ Accessory Power Socket (if equipped)
- ☐ Starter
- ☐ Audio/Video (if equipped)
- ☐ Power Sliding Door (if equipped)
- ☐ Convenience Memory Settings (if equipped)
- ☐ Heated Seats (if equipped)
- ☐ Massage Seats (if equipped)
- ☐ Rear Window Defogger (if equipped)
- ☐ Power Side Mirrors (if equipped)
- ☐ Side Mirror Defogger (if equipped)
- ☐ Front Windshield Defogger (if equipped)
- ☐ Navigation System (if equipped)
- ☐ Rear Sunshade (if equipped)
- ☐ Steering Wheel Audio Control (if equipped)

Remove the appropriate fuse after checks are completed.

Look For:

Functioning Power Windows

Functioning Power Seats

Functioning Horn

Functioning Gauges

Functioning Front Wiper/Washer

Functioning Rear Wiper/Washer

Functioning Clock

Functioning Power Socket

Functioning Starter

Functioning Audio/Video

Functioning Power Sliding Door

Functioning Memory Settings

Functioning Heated Seats

Functioning Massage Seats

Functioning Rear Window Defogger

Functioning Power Side Mirrors

Functioning Side Mirror Defogger

Functioning Front Windshield Defogger

Functioning Navigation System

Functioning Rear Sunshade

Functioning Steering Wheel Audio Control