

Part Number: PT374-33020

Section I - Installation Preparation

Kit Contents

Item #	Quantity Req'd.	Description
1	1	AD Mirror Assembly w/Compass
2	1	Hardware Bag
3	1	Installation Instructions

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	1	T-tap connector: Red 3M
2	1	Wire Cover
3	1	EC Mirror Wire Harness
4	6	Foam Tape
5	10	Wire Ties
6	1	Operation Instruction Card
7	1	10 mm Hex Head Bolt

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1		

Conflicts

Note: XLE

Recommended Tools

Safety Tools	
Vehicle Protection	Blankets
Special Tools	
None	
Installation Tools	
Screwdriver	Phillips #2
Screwdriver	Flat Blade, 4 mm max.
Ratchet	
Socket	10 mm
Torx Head Driver	T20
Dark Towel or Cloth	For Testing
Torque Wrench (2)	0-30 lbf.-in., 0-10 lbf.-ft.
Needle Nose Pliers	
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST # 00002-06001-01
Slotted Nylon Removal Tool	*See Note below.
Side Cutters	

*NOTE: A suitable tool can be obtained from:-

Plastic Factory

(310) 532-8850

Special Chemicals	
Cleaner	3M™ Prep Solvent-70, or Household Windex

General Applicability

LE, SE

Recommended Sequence of Application

Item #	Accessory	
1	VIP	V3
2	EC Mirror	N1
3		

*Mandatory

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.
	CRITICAL PROCESS: Proceed with caution to ensure a quality installation.
	GENERAL PROCESS: This highlights specific processes to ensure a quality installation.
	TOOLS & EQUIPMENT: Calls out the specific tools and equipment recommended for this process.

Section II - Installation Procedure

A. Remove Overhead Console.

1. Remove the negative battery cable. (Fig. A-1)



- i. Protect fender before starting.



- ii. Be careful to not touch the positive battery terminal.



- iii. Wait two (2) minutes before removing "A" pillar trim. Vehicle may have side air bag curtain.



2. Using a nylon removal tool, insert tool at front edge of overhead console bezel and carefully pry down. (Fig. A-2)



- i. Protect floor and seats before starting
- ii. With hands, carefully pull down the front edge of console bezel to release the two clips holding the console.



3. Slide the overhead console bezel forward to release the three support tabs from rear of bezel from the headliner area. (Fig. A-3)



4. Disconnect connector from the overhead console and carefully store on a clean, padded surface. (Fig. A-4)

B. Sun Visor Removal.

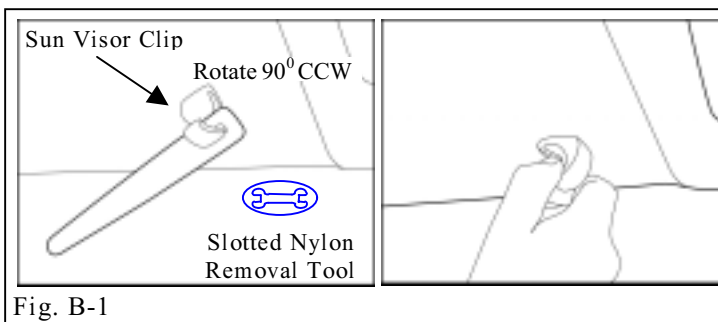
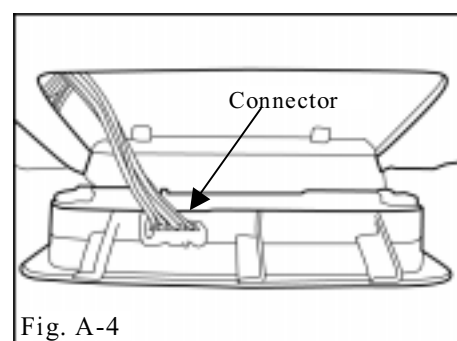
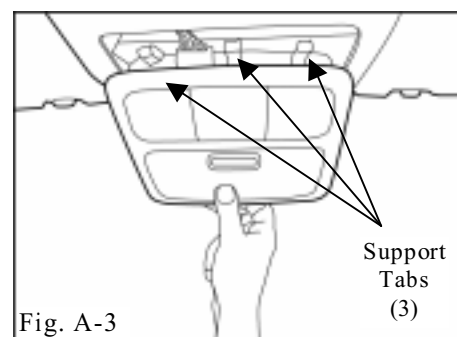
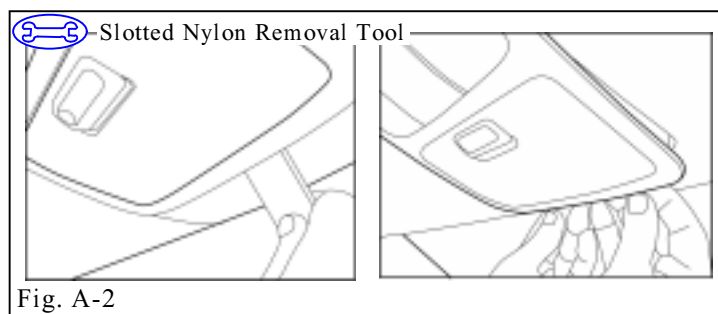
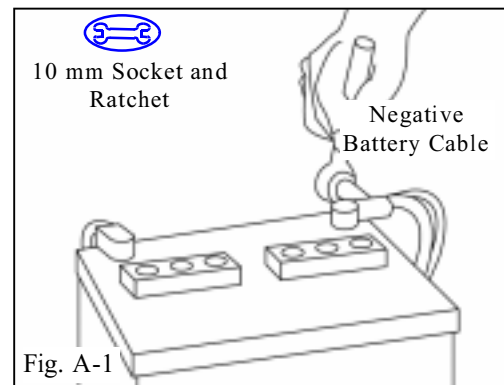
1. Remove sun visor and sun visor clips to release headliner.



2. Using a slotted nylon removal tool, rotate driver side sun visor clip 90° counterclockwise. (Fig. B-1)



- i. Carefully pull clip away from headliner taking care not to damage clip.



3. Remove plastic cover from sun visor mounting base to expose two (2) screws. (Fig. B-2)
4. Remove two (2) screws from sun visor mounting base. (Fig. B-3)



- i. Disconnect vanity mirror light connector and carefully store sun visor components on a clean, padded surface.

C. Vehicle Plastic Trim Component Removal.

1. Carefully remove driver's side scuff plate. (Fig. C-1)
 - i. Be careful not to scratch trim pieces.
 - ii. Carefully remove driver's side cowl cover.
2. Carefully remove driver side assist-handle plastic covers. (Fig. C-2)
 - i. Remove the (2) 10mm hex head bolts.
3. Carefully pull down door seal to allow head liner to drop. (Fig. C-3)
4. With a nylon removal tool, carefully pry away the top of A-pillar and remove. (Fig. C-4)

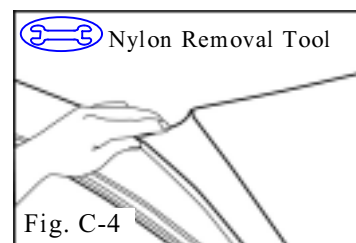
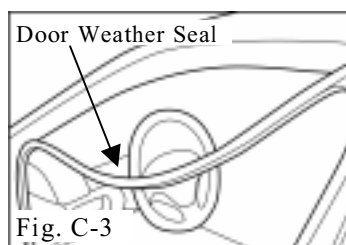
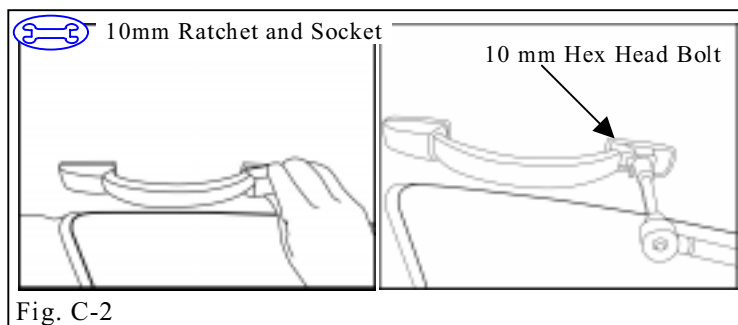
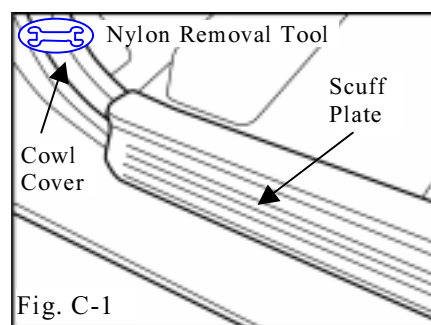
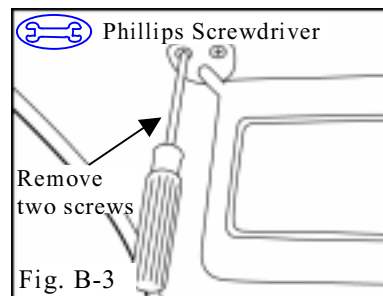
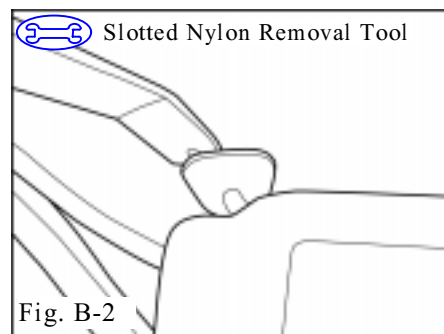


- i. Be careful not to scratch trim pieces.
- ii. Carefully remove driver's side cowl cover.

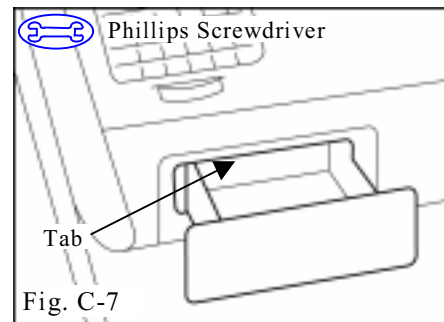
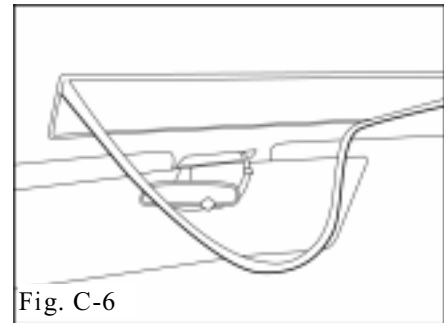
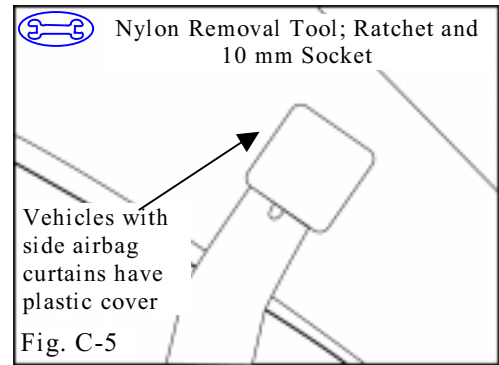
2. Carefully remove driver side assist-handle plastic covers. (Fig. C-2)
 - i. Remove the (2) 10mm hex head bolts.
3. Carefully pull down door seal to allow head liner to drop. (Fig. C-3)
4. With a nylon removal tool, carefully pry away the top of A-pillar and remove. (Fig. C-4)



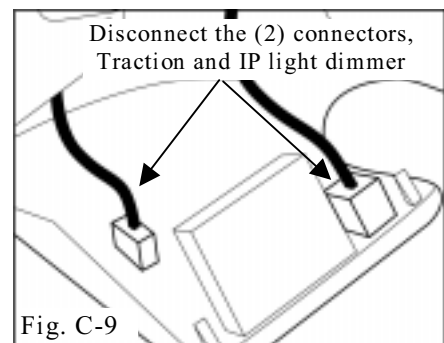
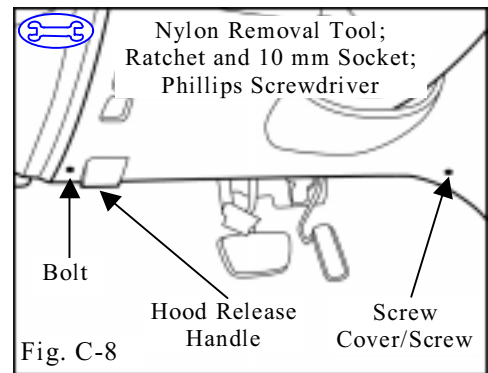
- i. Be careful not to scratch pillar.
- ii. Store all parts on a clean padded surface.



5. Vehicles with side air bag curtains, carefully lift up the plastic cover to expose the 10 mm hex head bolt. (Fig. C-5)
 - i. Be careful not to scratch pillar.
 - ii. Remove the 10mm hex head bolt.
 - iii. Remove A-pillar trim.
 - iv. Store all parts on a clean padded surface.



6. Sunroof models only. Carefully remove sunroof opening trim. (Fig. C-6)
 - i. Be sure hands are clean.
7. Remove coin holder. (Fig. C-7)
 - i. Remove coin box by pressing on tab and pulling box out.
 - ii. Remove the screw from behind coin box area.
8. Remove lower dash panel. (Fig. C-8)
 - i. Remove the hood release handle from the cable by unsnapping the cable.
 - ii. Open plastic cover over right side screw to expose screw.
 - iii. Remove screw from the lower right side of the dash panel.
 - iv. Remove one (1) 10 mm hex head bolt from the lower left area of the lower dash panel.
9. Carefully remove lower dash panel by pulling it rearwards then down towards the floor. (Fig. C-9)
 - i. Disconnect the two connectors on lower dash panel.
 - ii. Store lower dash panel on a clean padded surface.



D. Original Equipment (OE) Mirror Removal.

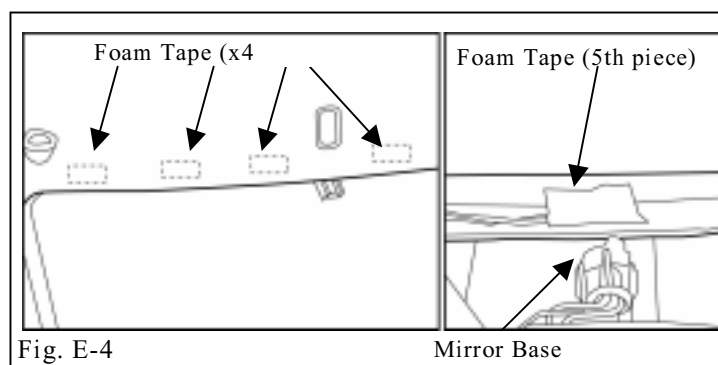
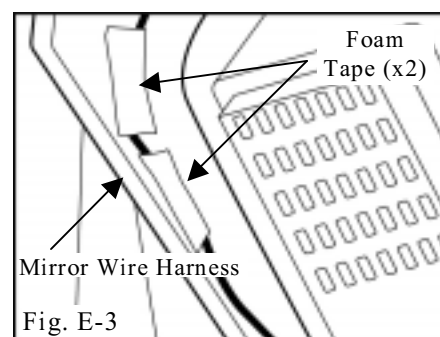
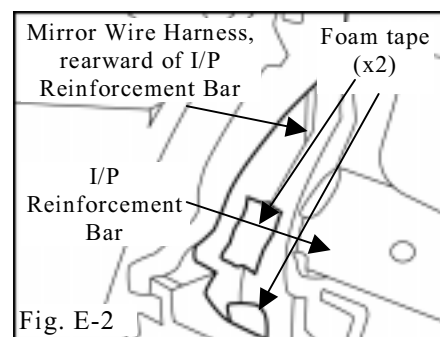
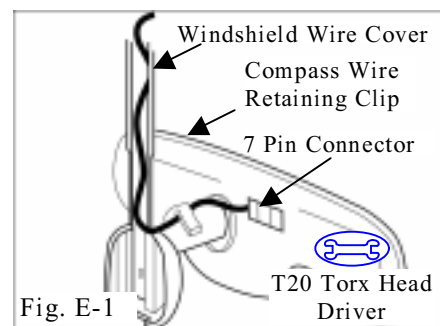
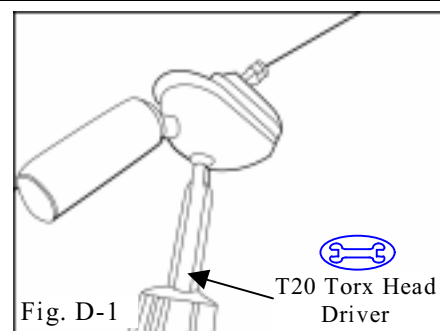
1. Using a T20 Torx head driver, remove the OE mirror. (D-1)
2. Discard the OE mirror.

E. Mirror Installation.

1. Slide the electrochromic compass mirror onto the mounting button on the windshield.
-  2. Tighten the screw on the mirror mounting bracket. Specified torque range is 15 lbf-in.
3. Plug the wire harness 7-pin connector into the back of the mirror. (Fig. E-1)
 - i. Route the mirror wire harness into the groove of the windshield wire cover.
 - ii. Attach the windshield wire cover to the mirror mounting bracket and secure wire harness with retaining clip as shown.
4. Slide the wire cover firmly under the headliner.
 -  i. Be careful not to bend headliner.
-  5. Route the mirror wire harness into the headliner and down the A-pillar - along side the OE wire harness.

NOTE: Wire harness must allow mirror to experience full range of movement (turn full left and full right) with tension relief.

-  6. Route harness rearward of instrument panel reinforcement bar as shown. (Fig E-2)
 -  i. Secure mirror wire harness with two (2) pieces of foam tape.
7. Route mirror wire harness down from "A" pillar as shown. (Fig. E-3)
-  8. Apply foam tape to headliner (5 places) as shown. (Fig. E-4)



9. Loosely secure the mirror wire harness to the OE wire harness with four (4) wire ties along the A-pillar as shown. (Fig. E-5)



- i. Be sure to keep mirror wire harness away from side air bag curtain and wire tie OE harness.

10. Locate the gray flasher relay at the lower left side of cowl area. (Fig. E-6)

11. Locate the red - blue wire in the wire harness from the flasher relay. (Fig. E-7)

12. Apply the Red T-tap connector to the red - blue wire about one (1) inch from connector with pliers. (Fig. E-8)

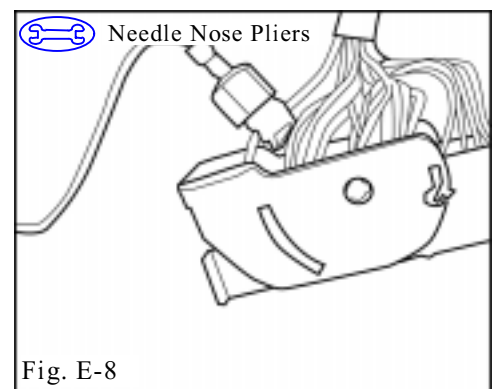
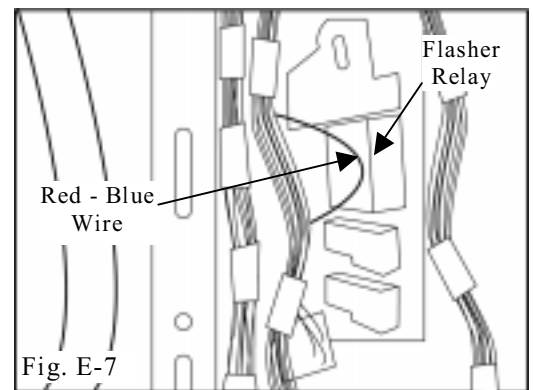
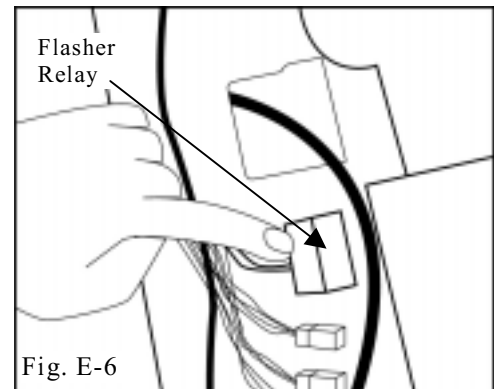
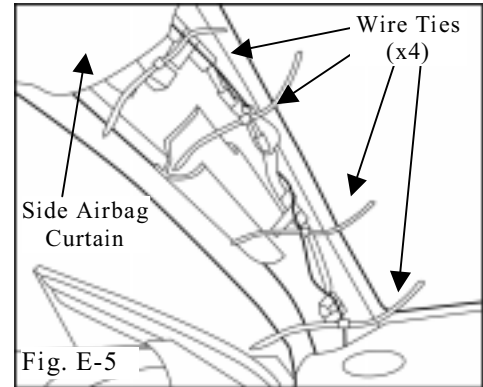


13. Make sure T-tap halves are snapped together and secure.

- i. Plug the red connector of the mirror wire harness into the T-tap.



- ii. Make sure the spade terminal is properly inserted in T-tap to make electrical contact.



14. Locate the unused weld nut at the lower cowl panel as shown. (Fig. E-9)

- i. Pull ground wire apart from ignition wire enough to allow connection to ground bolt.

➡ 15. Using a 10 mm socket and ratchet, attach the ground lug of the mirror wire harness with the provided 10mm hex head bolt to the weld nut.

- ➡ i. Make sure the bolt is secure.

➡ 16. Bundle excess mirror wire harness to the vehicle's main harness and secure excess with three (3) wire ties. (Fig E-10)

➡ 17. Tighten all wire ties and cut excess.

F. Testing.

1. Reconnect the negative battery cable. (Fig. F-1)



- i. Tighten the nut to 36 lbf-in.



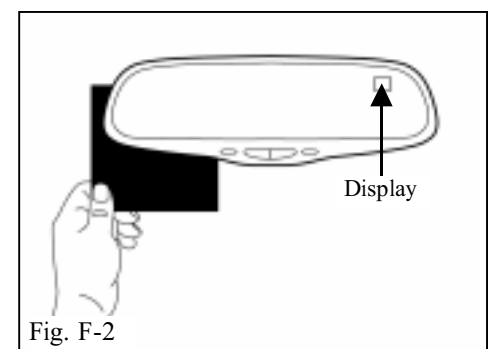
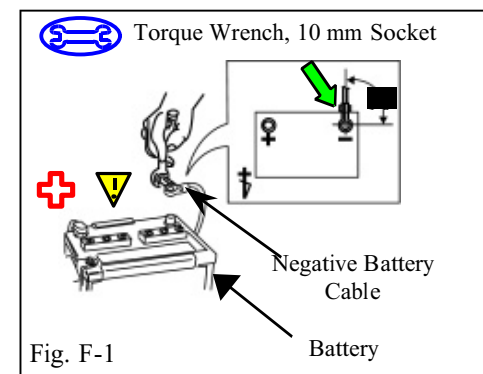
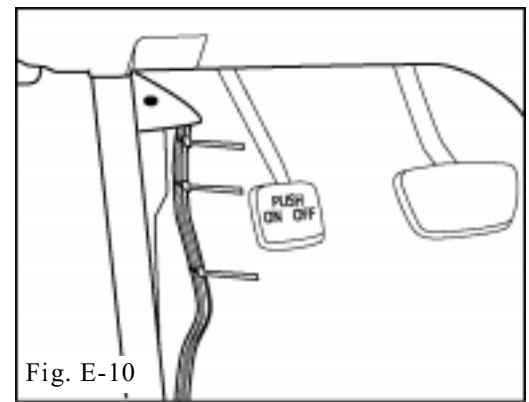
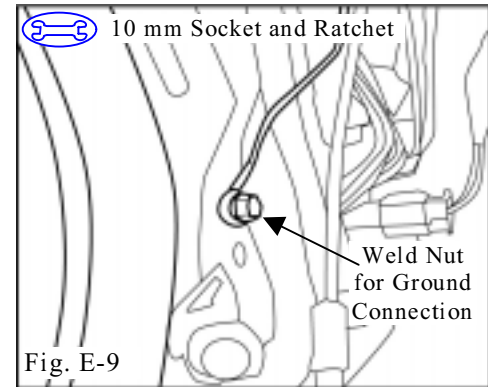
- ii. Be careful not to touch the positive battery terminal.

2. Turn ignition switch to ON.

3. With the vehicle in a fairly well lit area, perform the following test of Auto Dimming Feature:

- i. To make sure the auto-dimming feature is on, verify that the green LED to the right of the switch is on. If it is not on, push the 'Mirror' button to turn it on. (Fig. F-2)
- ii. Cover (using dark cloth or towel) the forward-looking photocell located below the wire harness connection on the back of the mirror. (Fig. F-2)

➡ iii. After a few seconds, the mirror will begin to darken (the time may vary with ambient light levels).



-  iv. Remove the cover from the forward photocell and the mirror will begin to clear.
- 4. Compass Feature:
 - i. Push in 'Comp' side of switch to turn compass on/off. Compass is enabled when a direction or a 'C' appears in the mirror display window.
-  5. For vehicles with side airbag curtains, disconnect battery, proceed with final assembly then reconnect negative battery cable with proper torque.

G. Final Assembly.

- 1. Reinstall sunroof opening trim (sunroof models only).
- 2. Reinstall lower dash panel, hood release handle and coin box.
- 3. Reinstall driver's side cowl cover.
- 4. Reinstall driver's side scuff plate.
- 5. Reinstall driver's side A-pillar garnish.
- 6. Reinstall sun visor, plastic cover and mounting base.
- 7. Reinstall driver side grab handle.
- 8. Reinstall sun visor clips.
- 9. Reinstall overhead console.
-  10. Place the operation instruction card in the vehicle glove box.
-  11. Remove fingerprints, smudges, dirt, etc. from mirror glass with 3M™ Prep Solvent-70 (or Household Windex.)
 -  i. When cleaning with 3M™ Prep Solvent-70 follow the manufacturer's directions. Do not allow cleaner to air dry.

-  12. Verify each reinstalled component for proper fit and function.



Section III - Functional Verifications

Check:

Accessory Function Checks

Vehicle should be in a fairly well lit area.

- ☐ Turn the ignition switch to ON.

Auto-dimming feature:

- ☐ Cover the forward-looking photo cell (located below the wire harness connection on the back of the mirror.)

Mirror Clears:

- ☐ Remove cover from the photocell.

Compass feature:

- ☐ Push in 'Comp' side of switch.
- ☐ Push the 'Mirror' switch a second time and hold for 3 seconds.

Look For:

Verify green LED, to the right of the switch, is on. If it is not on, push the  button to turn it on.

Verify mirror darkens.

Mirror returns to clear state.

Verify vehicle's directional heading is displayed.

Verify the visual display turns off.

Vehicle Function Checks

- ☐ Map lamps/Dome lamp with door closed.
- ☐ Sunroof - open/close switch
- ☐ Hood Release
- ☐ Traction light
- ☐ Instrument Panel Light Dimmer

Map lamps should turn off.

Sunroof opens and closes.

Verify that hood latch releases.

Verify traction light turns on/off.

Verify IP lights dim.

PartNumber: 08586-3T870

Section I - Installation Preparation

Kit Contents

Item #	Quantity Req'd.	Description
1	1	Wire Harness
2	1	ECU Mounting Bracket
3	1	Microphone
4	1	GBS ECU

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	15	Medium Wire Ties
2	1	Large Foam Tape Strip (2pcs.)
3	1	Small Foam Tape Strip
4	1	Bolt
5	1	Panel Nut
6	1	Splicing Connector
7	1	Owner's Manual

Additional Items Required For Installation

Item #	Quantity Req'd.	Description

Conflicts

Note:

Recommended Tools

Safety Tools	
Safety Glasses	
Safety Gloves	(Optional)
Vehicle Protection	Blankets, Part Boxes
Special Tools	
None	
Installation Tools	
Phillips Head Screwdriver	#2, screwdriver or tip
Flat Blade Screwdriver	Small
10 mm Socket	
Pneumatic/Electric Wrench	
10 mm Wrench	
Torque Wrench	3 ft-lb
Nylon Panel Removal Tool	
Side Cutters	
Pliers	
Special Chemicals	
3M Prep Solvent-70	

General Applicability

2002 - Camry With factory TDS system, only
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Recommended Sequence of Application

Item #	Accessory	
1	V2	
2	EC Mirror	
3	Subwoofer	

*Mandatory

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.
	CRITICAL PROCESS: Proceed with caution to ensure a quality installation. These points will be audited on a completed vehicle installation.
	GENERAL PROCESS: This highlights specific processes to ensure a quality installation. These points will be audited during the accessory installation.
	TOOLS & EQUIPMENT: This calls out the specific tools and equipment required for this process.

VEHICLE INSPECTION LIST

Notify your supervisor of any damage to the vehicle, inoperative equipment, or missing parts prior to starting the installation. Check one of the boxes for each item below.

FINAL INSPECTION

	OK	INOP.	N/A		OK	INOP.	N/A
Head Lights	☐	☐	☐	HVAC	☐	☐	☐
High Beams	☐	☐	☐	Power Locks	☐	☐	☐
Turn Signal Lights	☐	☐	☐	Power Windows	☐	☐	☐
Tail Lights	☐	☐	☐	Power Seats	☐	☐	☐
Stop Lights	☐	☐	☐	Power Mirrors	☐	☐	☐
Backup Lights	☐	☐	☐	Horn	☐	☐	☐
Hazard Lights	☐	☐	☐	Ft/Rr Wipers/Washer	☐	☐	☐
Daytime Running Lights	☐	☐	☐	Clock	☐	☐	☐
Fog Lights	☐	☐	☐	Gauges	☐	☐	☐
Marker Lights	☐	☐	☐	Starter	☐	☐	☐
Dome/Courtesy Lights	☐	☐	☐	Cig. Lighter/12V Acc.	☐	☐	☐
Key Sense Buzzer	☐	☐	☐	Audio	☐	☐	☐
Panel/Switch Illumination	☐	☐	☐	Power Antenna	☐	☐	☐
Trunk/Tailgate Light	☐	☐	☐	ABS Light**	☐	☐	☐
Cruise Control Light*	☐	☐	☐	Lamp Failure Sensor**	☐	☐	☐
Air Bag Warning Light **	☐	☐	☐	Track/Skid Control Light**	☐	☐	☐
Glove Box Light	☐	☐	☐	Power Sliding Door	☐	☐	☐
Accessory Controls/Illumination	☐	☐	☐				

* Light must illuminate when ignition switch is turned to the "ON" position to indicate it is "ON".

** If the warning light remains "ON", it may indicate a system malfunction.

Section II - Installation Procedure

A. Vehicle Disassembly

1. Remove the negative battery cable.
(Fig. A1)



- i. Protect the fender before starting.
- ii. Be careful not to touch the positive terminal.

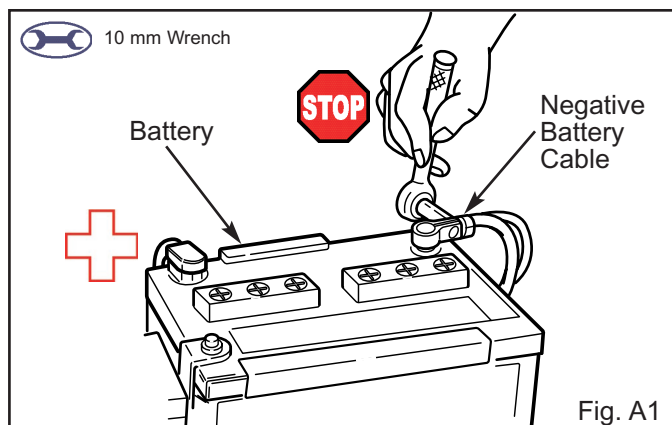


Fig. A1

2. Remove the passenger's side step cover.
(Fig. A2)



- i. Cover the floor and seats before starting.



- ii. Do not scratch the cover.

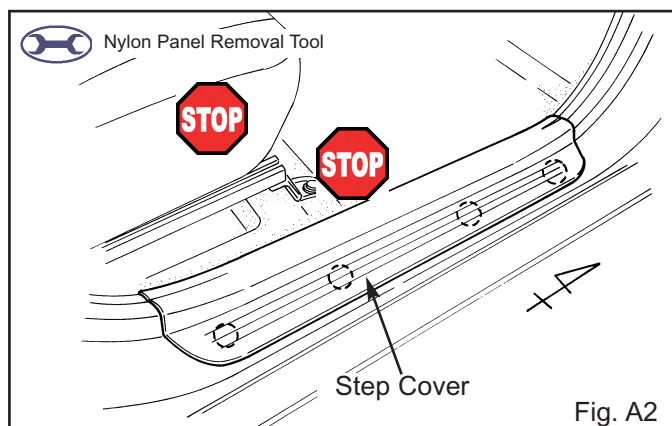


Fig. A2

3. Remove the under-dash cover. (Fig. A3)



- i. Do not scratch the glove box assembly.

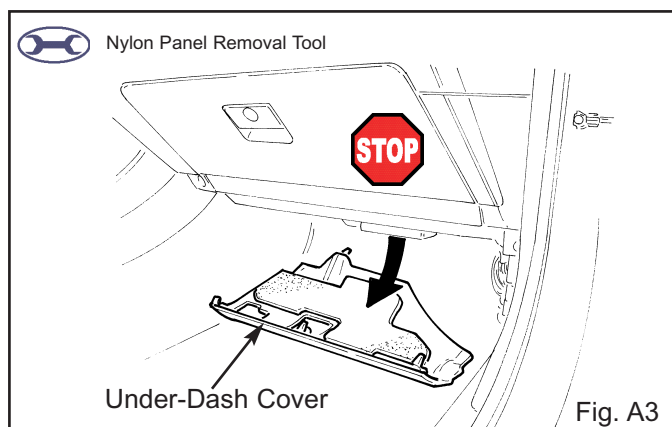


Fig. A3

4. Remove the passenger's cowl cover.
(Fig. A4)



- i. Remove the nut securing the cowl cover.

- ii. Do not scratch the cover.

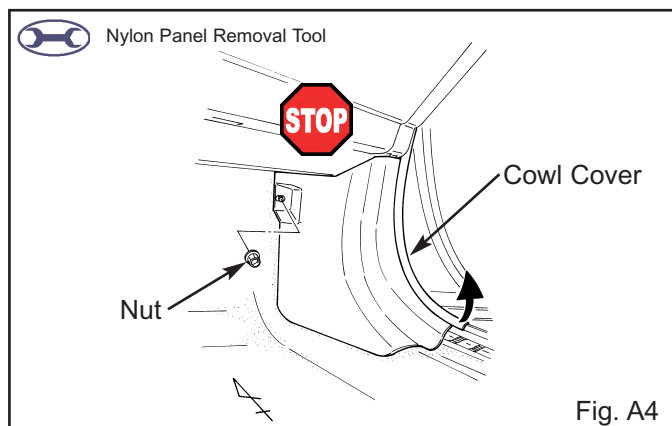
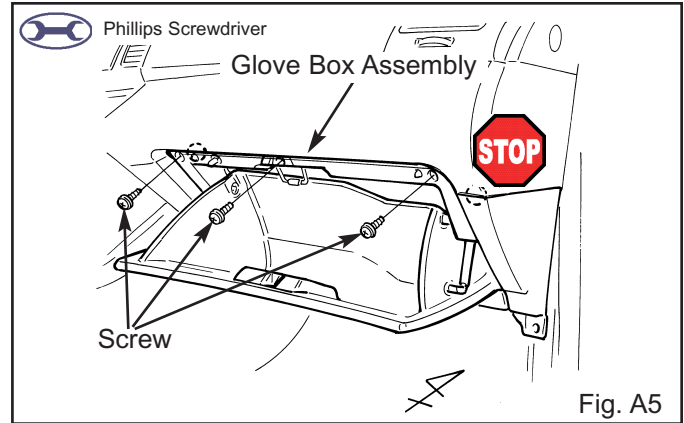


Fig. A4

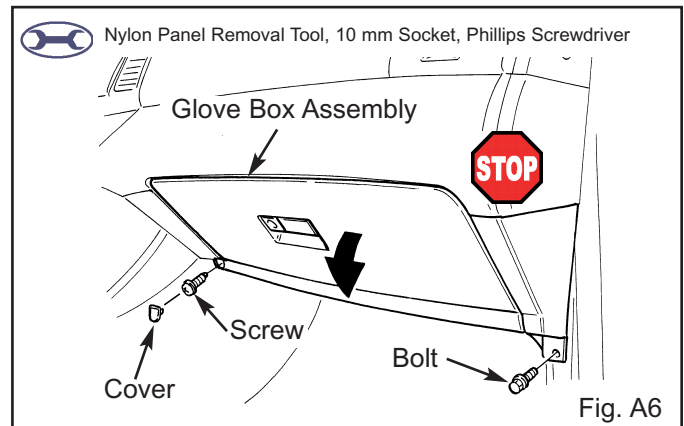
5. Remove the glove box assembly.
(Fig. A5)

- i. Remove the three screws securing the glove box assembly.
- ii. Do not scratch the glove box assembly.



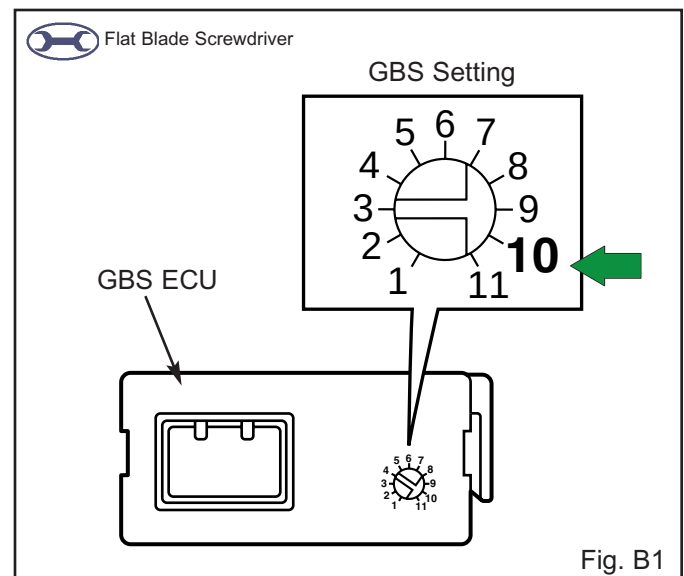
6. Close the glove box assembly latch and then remove the remaining one screw and one bolt. (Fig. A6)

- i. Remove the cover from the glove box assembly.
- ii. Do not scratch the glove box assembly.



B. ECU preparation and Installation

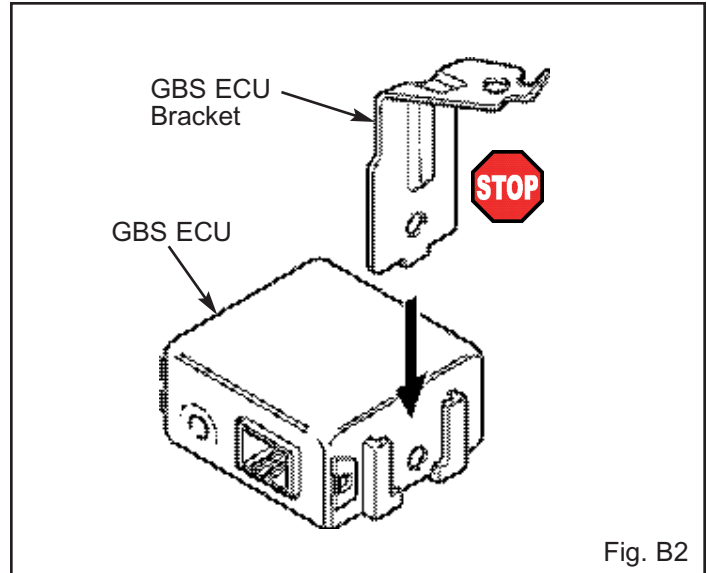
- ➔ 1. Turn the GBS adjustment screw on the GBS ECU to the "10" position.
(Fig. B1)



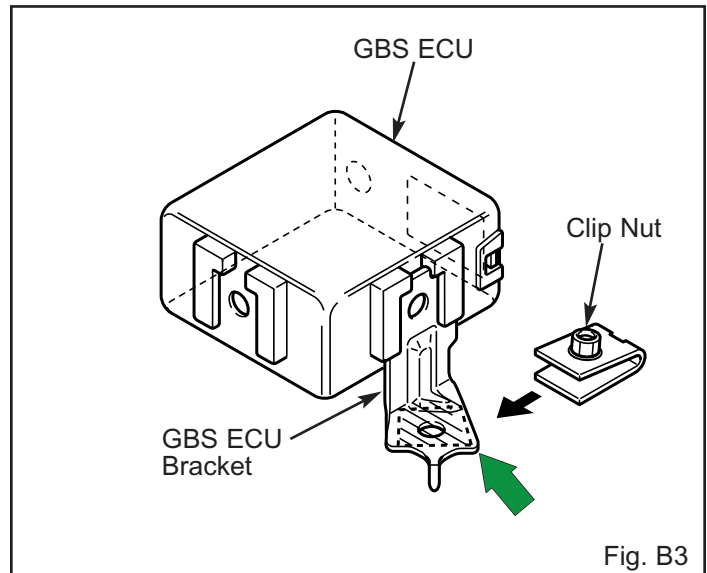
2. Insert the GBS ECU mounting bracket into the indicated bracket slot on the GBS ECU. (Fig. B2)



- i. Insert the mounting bracket into the correct slot; you have only one chance to install it properly.



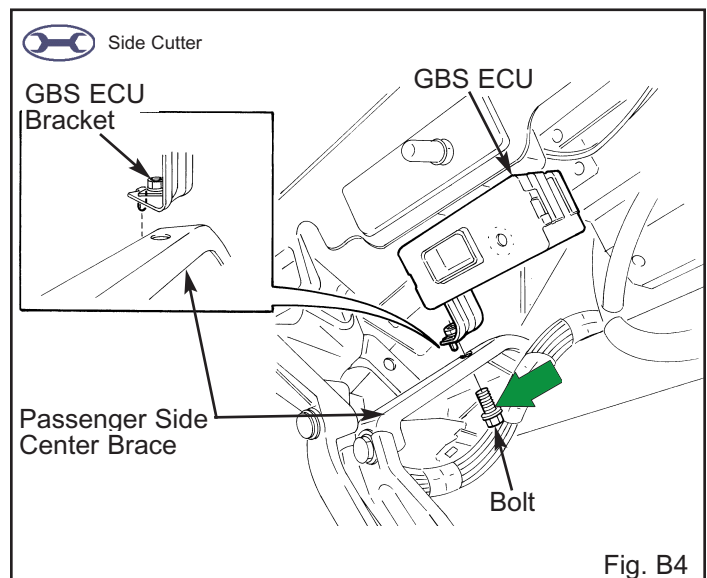
3. Locate and install the clip nut to the GBS ECU mounting bracket as shown. (Fig. B3)



4. Using the bolt supplied in the kit, secure the GBS ECU to the passenger side center brace in the center console area. (Fig. B4)



- i. Secure the GBS ECU as shown.



5. Plug in the V2 harness' white 8P connector to the GBS ECU. (Fig. B5)



- i. Verify the connector is plugged in securely.

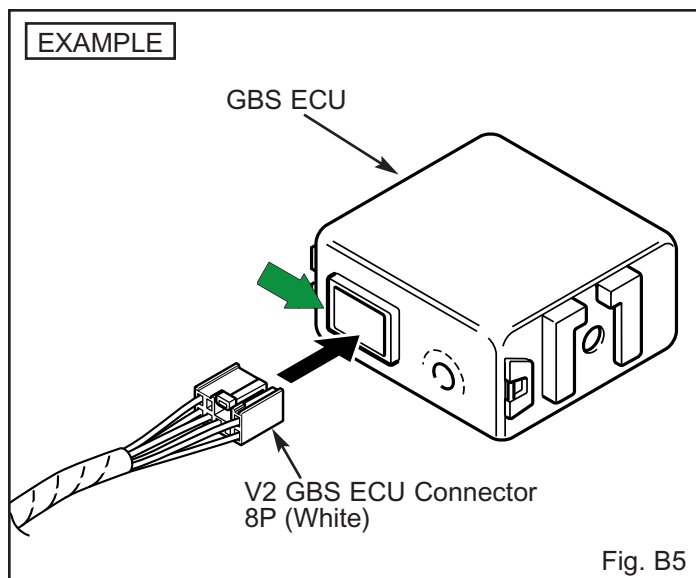


Fig. B5

C. V2 Wire harness Installation



1. Secure the V2 harness to the GBS ECU mounting bracket with one medium wire tie. (Fig. C1)

- i. Clip the wire tie.



2. Route the V2 harness toward the glove box area, then secure it to the vehicle harness with one medium wire tie. (Fig. C1)

- i. Clip the wire tie.

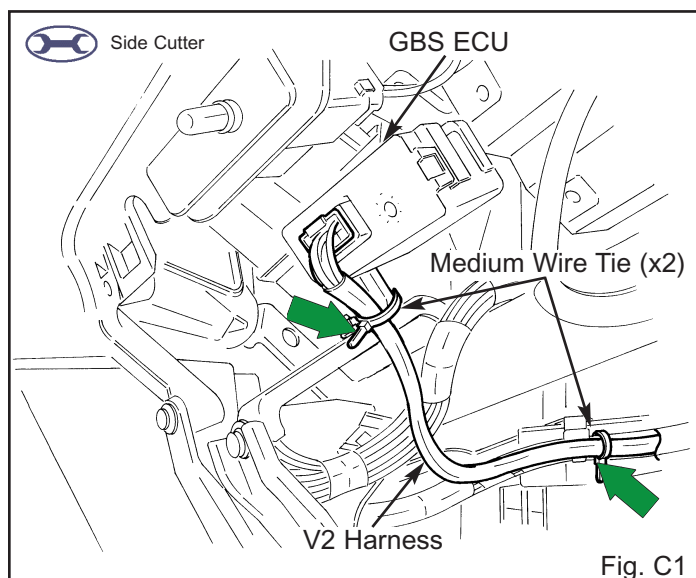


Fig. C1



3. Route the V2 harness through the glove box area, then the V2 harness' BLACK/RED wire and YELLOW wire terminal behind the reinforcement as shown. (Fig. C2)



4. Secure the V2 harness to the vehicle harness with two medium wire ties. (Fig. C2)

- i. Clip the wire ties.

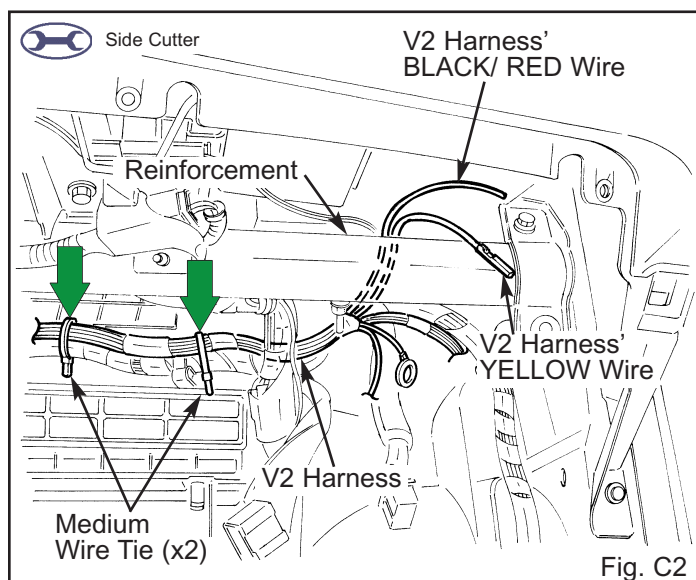
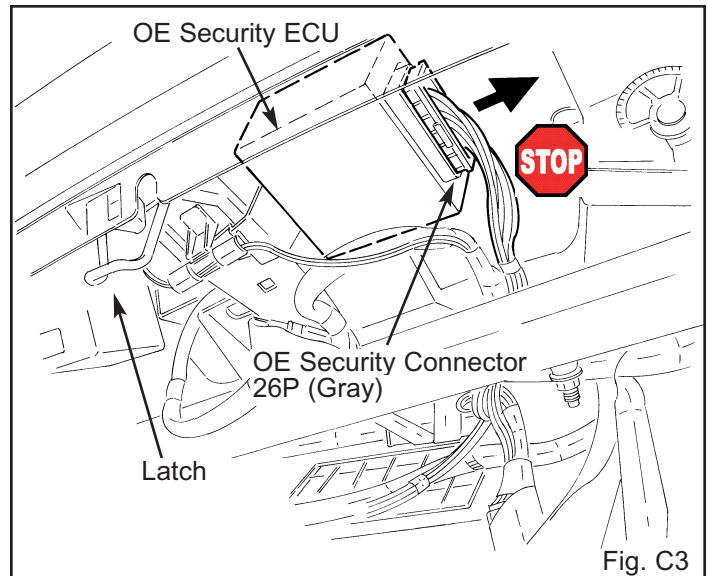


Fig. C2

5. Locate and disconnect the gray 26P connector from the glove box area. (Fig. C3)



- i. Do not pull on the wires; pull on the connector.



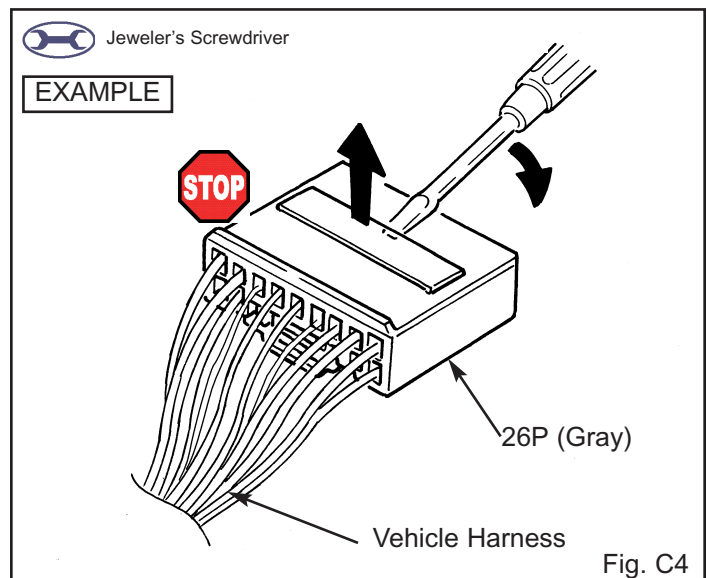
6. Using a small Jeweler's Screwdriver or the like, lift up the terminal retainer on the back of the gray 26P connector. (Fig. C4)



- i. Do not pull out the retainer.



- ii. Do not damage the connector.



7. Insert the terminal at end of the V2 harness' YELLOW wire into the top row, seventh space from the left of the vehicle's harness gray 26P connector, then close the retainer. (Fig. C5)

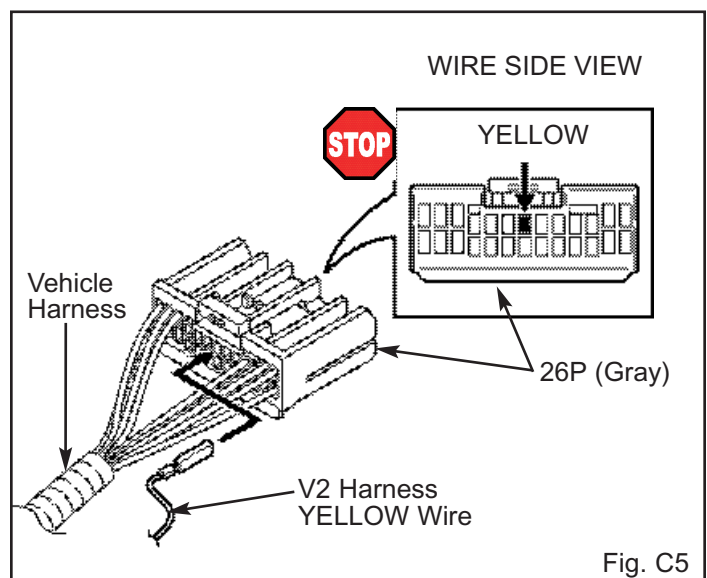


- i. Turn the connector so the wires face you and tab is on top.



- ii. Verify the correct opening is chosen.

- iii. Verify the terminal is inserted and seated properly.



8. Locate the wire in the bottom row, first space from the right, and attach the V2 harness' BLACK/ RED wire with a splicing connector. (Fig. C6)

- i. Turn the connector so the wires face you and tab is on top.



- ii. Verify the correct wires are chosen for splicing.



- iii. Make sure the splicing connector is applied properly.

9. Plug the gray 26P connector into OE security ECU. (Fig. C7)



- i. Verify the connector is plugged in securely.



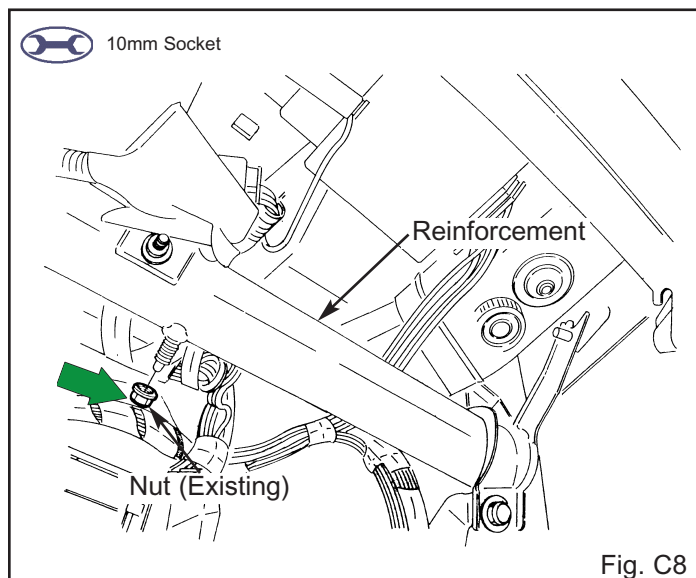
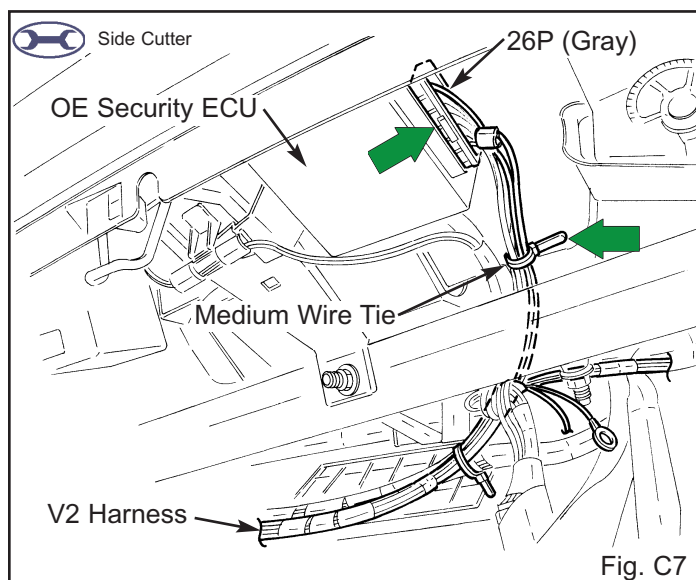
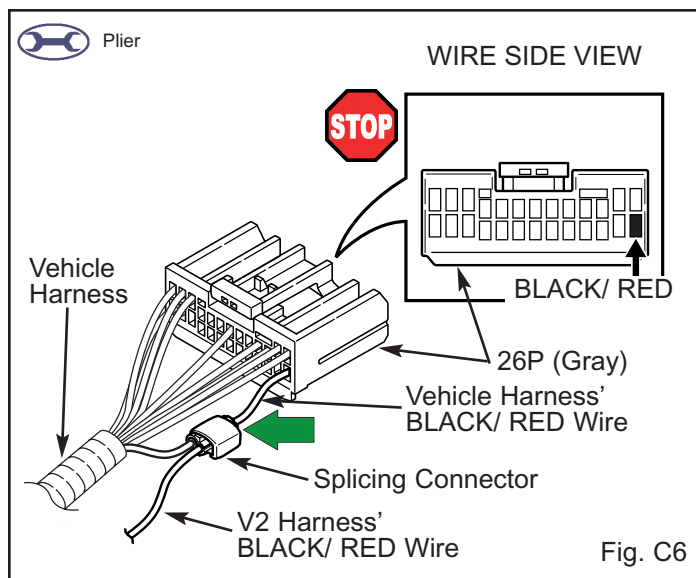
10. Secure the V2 harness to the vehicle harness with a medium wire tie. (Fig. C7)

- i. Clip the wire tie.

11. Locate and remove the vehicle's existing nut from the right most ground point on the reinforcement. (Fig. C8)



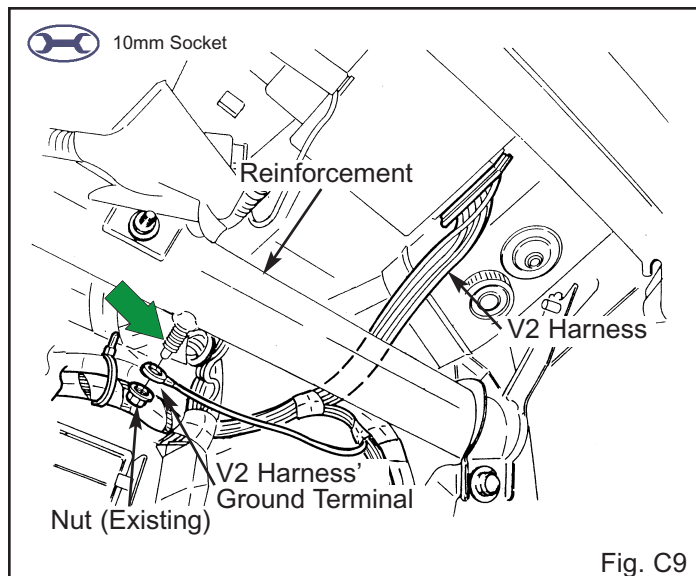
- i. Do not discard the nut.



12. Secure the V2 harness' ground wire terminal, along with the vehicle harness' ground wire terminal, with the existing nut. (Fig. C9)

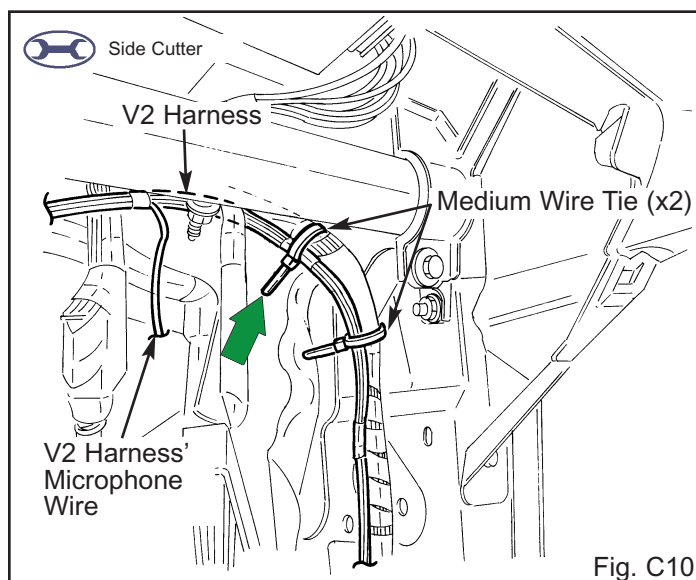


- i. Verify the nut is tightened securely.



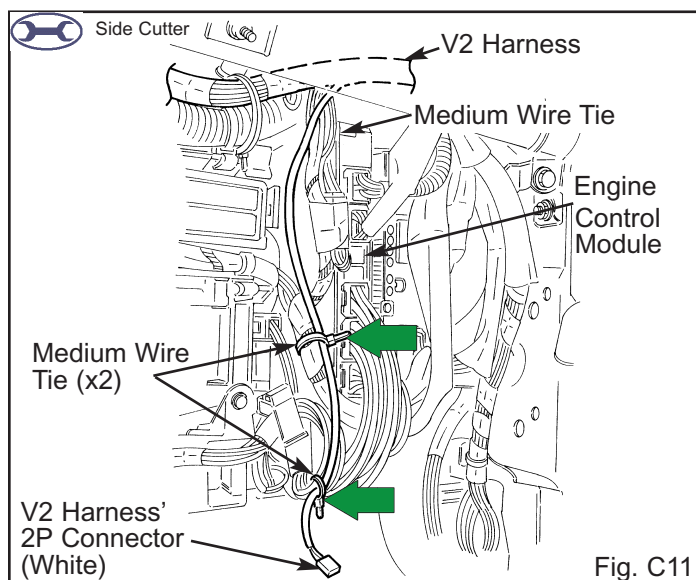
13. Route the V2 harness toward the passenger side cowl area, then secure it to the vehicle harness with two medium wire ties. (Fig. C10)

- i. Clip the wire ties.
- ii. Do not secure the V2 harness' microphone wire (white 2P connector).



14. Route the V2 harness' white 2P connector downward toward the glove box area, then secure it to the vehicle harness with three medium wire ties. (Fig. C11)

- i. Clip the wire ties.



15. Locate and disconnect the gray 10P connector from the passenger side cowl area. (Fig. C12)



- i. Do not pull on the wires; pull on the connector.

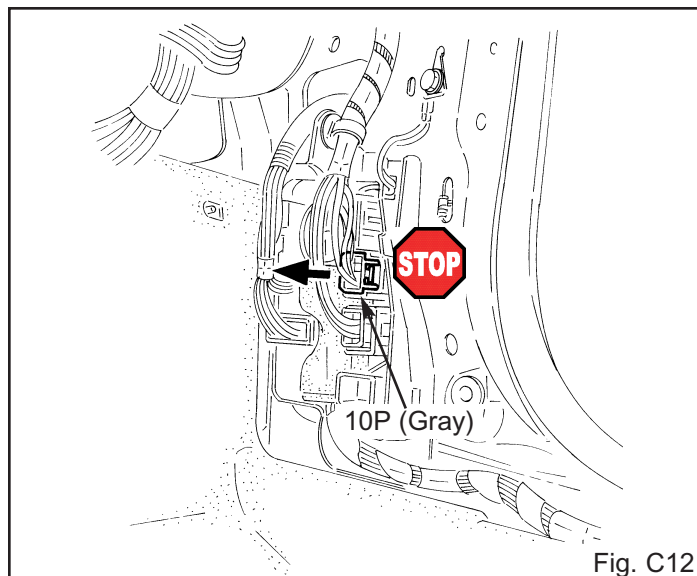


Fig. C12

16. Plug in the V2 harness' gray 10P connector between the vehicle harness' gray 10P connector and the passenger side cowl area. (Fig. C13)



- i. Verify the connector is plugged in securely.



17. Wrap the gray 10P connector with one large strip of foam tape. (Fig. C13)

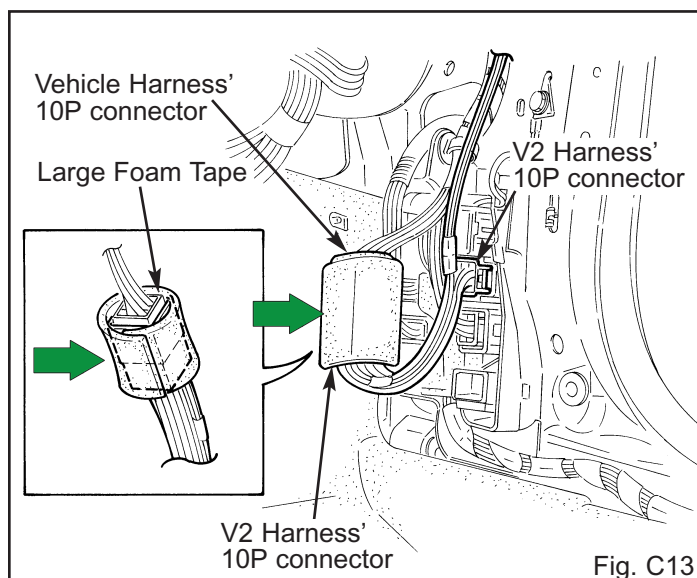


Fig. C13



18. Secure the V2 harness to the vehicle harness with four medium wire ties. (Fig. C14)

- i. Clip the wire ties.

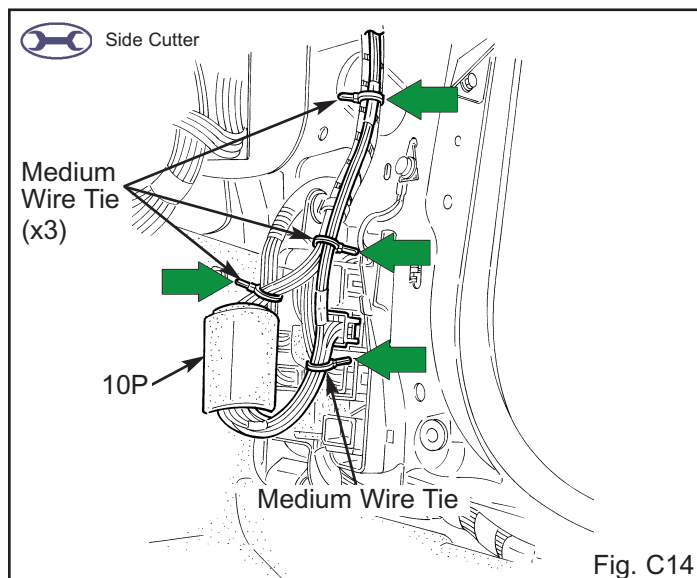


Fig. C14

D. Microphone Installation

- ➡ 1. Using 3M Prep Solvent -70 clean the area indicated on the back side of the under-dash cover. (Fig. D1)
 - STOP i. Do not scratch the panel.
2. Remove the backing sheet and secure the microphone to the back side of the under-dash cover. (Fig. D1)
 - ➡ i. Secure the microphone as shown.
 - STOP ii. Do not touch the adhesive surface of the microphone.
 - STOP iii. Press the microphone to the glove box under panel firmly.
3. Secure the microphone with one small strip of foam tape. (Fig. D2)
 - STOP i. Do not cover the opening of the microphone with the foam tape.
4. Refit the glove box assembly. (Fig. D3)
 - STOP i. Do not scratch the panel.
5. Plug in the microphone's 2P connector to the V2 harness' 2P connector. (Fig. D3)
 - ➡ i. Verify the connectors are plugged in securely.
- ➡ 6. Wrap the 2P connector with one large strip of foam tape. (Fig. D3)
7. Refit the under-dash cover. (Fig. D3)
 - STOP i. Do not scratch the cover.

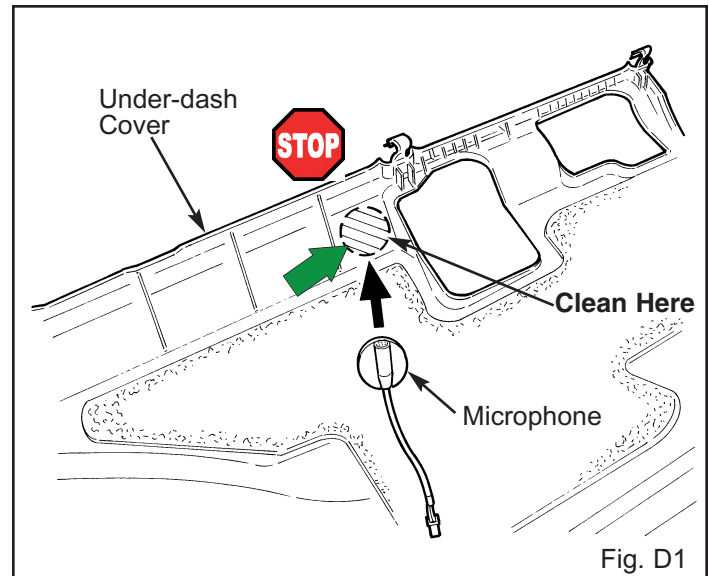


Fig. D1

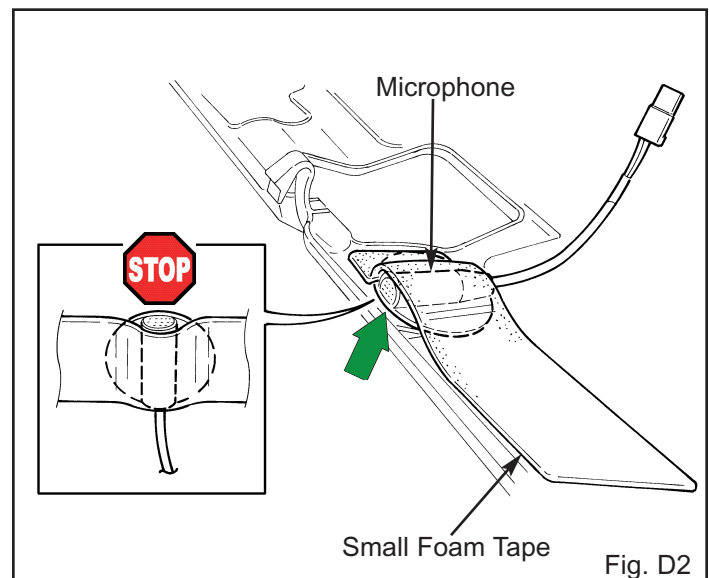


Fig. D2

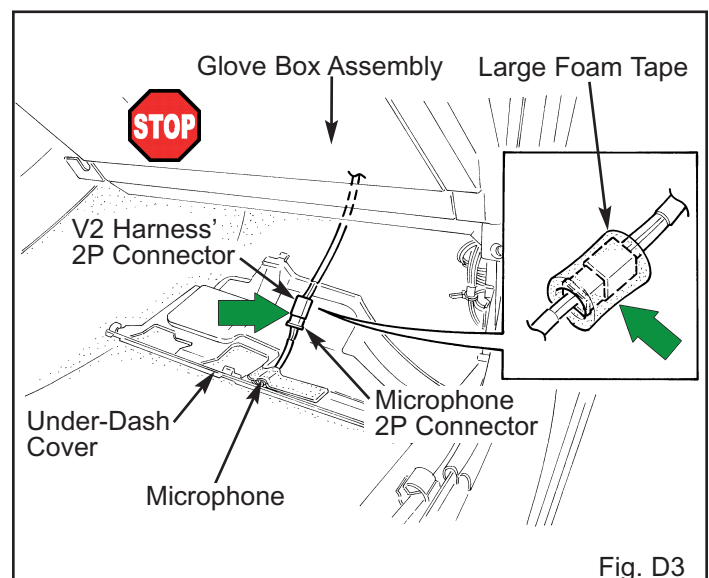


Fig. D3

E. Completing the Installation

1. Complete the reassembly of the vehicle.



i. Reconnect any disconnected connector.



ii. Verify the panels fit together properly with no uneven gaps between them.

2. Clean up and remove any trash.

3. Reconnect the vehicle's negative battery cable. (Fig. E1)



i. Position the negative terminal at an angle of 90° to the battery as shown.



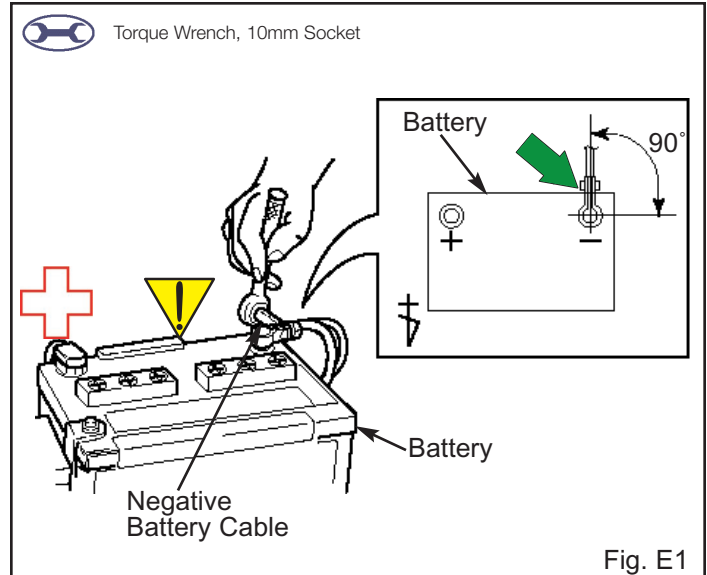
ii. Tighten the nut with 36in.•lbs of torque.



iii. Be careful not to touch the positive battery terminal.



4. Leave the owner's manual, warranty card, and remote controls in their protective bags and place them in the glove box.





Section III - Functional Verifications

Check: _____

Look for: _____

Accessory Function Checks

Close the hood before beginning.

- ☐ Press and release the remote control's lock button to start the system's arming process.

- ☐ Wait 30 seconds.

Perform the following check in a temperature controlled environment.

- ☐ With the tip of a key, *lightly* tap the center of the driver's door glass.
- ☐ With moderate force, tap the center of the driver's door window glass again to trigger the warn away glass.

- ☐ Insert the key into the driver's door key cylinder and turn it toward the back of the vehicle to stop the alarm.

1. The tail and marker lights flash once.
The buzzer chirps once.
All doors lock.
The Security LED lights up.
2. After 30 seconds, the Security LED starts flashing;
the system is now armed.
3. The alarm should not be triggered.
4. The horn sounds repeatedly.
The head lights flash repeatedly.
The tail and marker lights flash repeatedly.
The Status Monitor's LED lights up.

NOTE: Increase the GBS sensitivity setting to the next level if the alarm does not trigger.

NOTE: If you do not disarm the system, the alarm will last 20 seconds. *It is not necessary to check the alarm duration.*

5. The horn stops sounding.
All the lights stop flashing.
The status monitor's LED lights up.
The driver's door unlocks.

PartNumber: 08586-3T860

Section I - Installation Preparation

Kit Contents

Item #	Quantity Req'd.	Description
1	1	Wire Harness
2	1	Microphone
3	1	GBS ECU
4	1	Security ECU Mounting Bracket
5	1	V5 Security ECU
6	1	GBS ECU Mounting Bracket

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	5	Large Wire Ties
2	3	Small Foam Tape Strip
3	20	Medium Wire Ties
4	2	Bolt
5	1	Splicing Connector
6	1	Panel Nut
7	2	Warning Labels
8	1	Owner's Manual
9	1	Warranty Card

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1	1	Console Panel Kit (08192-3T840) NOTE: Only requires for vehicles without factory immobilizer.

Conflicts

Note: Must not be installed in vehicles with factory TDS.

Recommended Tools

Safety Tools	
Safety Glasses	
Safety Gloves	(Optional)
Vehicle Protection	Blankets, Part Boxes
Special Tools	
None	
Installation Tools	
Phillips Head Screwdriver	#2, screwdriver or tip
Flat Blade Screwdriver	Small
10 mm Socket	
Pneumatic/Electric Wrench	
10 mm Wrench	
Torque Wrench	
Nylon Panel Removal Tool	
Side Cutters	
Pick	
Pliers	
Special Chemicals	
3M Prep Solvent-70	

General Applicability

2002 - Camry with factory keyless entry, only.

Recommended Sequence of Application

Item #	Accessory
1	V5
2	EC Mirror
3	Subwoofer

*Mandatory

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.
	CRITICAL PROCESS: Proceed with caution to ensure a quality installation. These points will be audited on a completed vehicle installation.
	GENERAL PROCESS: This highlights specific processes to ensure a quality installation. These points will be audited during the accessory installation.
	TOOLS & EQUIPMENT: This calls out the specific tools and equipment required for this process.

VEHICLE INSPECTION LIST

Notify your supervisor of any damage to the vehicle, inoperative equipment, or missing parts prior to starting the installation. Check one of the boxes for each item below.

FINAL INSPECTION

	OK	INOP.	N/A		OK	INOP.	N/A
Head Lights	☐	☐	☐	HVAC	☐	☐	☐
High Beams	☐	☐	☐	Power Locks	☐	☐	☐
Turn Signal Lights	☐	☐	☐	Power Windows	☐	☐	☐
Tail Lights	☐	☐	☐	Power Seats	☐	☐	☐
Stop Lights	☐	☐	☐	Power Mirrors	☐	☐	☐
Backup Lights	☐	☐	☐	Horn	☐	☐	☐
Hazard Lights	☐	☐	☐	Ft/Rr Wipers/Washer	☐	☐	☐
Daytime Running Lights	☐	☐	☐	Clock	☐	☐	☐
Fog Lights	☐	☐	☐	Gauges	☐	☐	☐
Marker Lights	☐	☐	☐	Starter	☐	☐	☐
Dome/Courtesy Lights	☐	☐	☐	Cig. Lighter/12V Acc.	☐	☐	☐
Key Sense Buzzer	☐	☐	☐	Audio	☐	☐	☐
Panel/Switch Illumination	☐	☐	☐	Power Antenna	☐	☐	☐
Trunk/Tailgate Light	☐	☐	☐	ABS Light**	☐	☐	☐
Cruise Control Light*	☐	☐	☐	Lamp Failure Sensor**	☐	☐	☐
Air Bag Warning Light **	☐	☐	☐	Track/Skid Control Light**	☐	☐	☐
Glove Box Light	☐	☐	☐	Power Sliding Door	☐	☐	☐
Accessory Controls/Illumination	☐	☐	☐				

* Light must illuminate when ignition switch is turned to the "ON" position to indicate it is "ON".

** If the warning light remains "ON", it may indicate a system malfunction.

Section II - Installation Procedure

A. Vehicle Disassembly

1. Remove the negative battery cable.
(Fig. A1)



- i. Protect the fender before starting.
- ii. For vehicles equipped with automatic transmission, place the shifter in low gear and set the parking break prior to disconnecting the battery.



- iii. Be careful not to touch the positive terminal.

2. Remove the driver's step cover.
(Fig. A2)



- i. Cover the floor and seats before starting.



- ii. Do not scratch the cover.

3. Remove the driver's cowl cover.
(Fig. A3)



- i. Remove the nut securing the cover.
- ii. Do not scratch the cover.

4. Remove the hood release latch.
(Fig. A4)



- i. Remove the cable from the latch as shown.
- ii. Do not scratch the lower dash cover.

5. Remove the coin box from the lower dash cover. (Fig. A4)



- i. Remove the one screw securing the lower dash cover.
- ii. Do not scratch the lower dash cover.

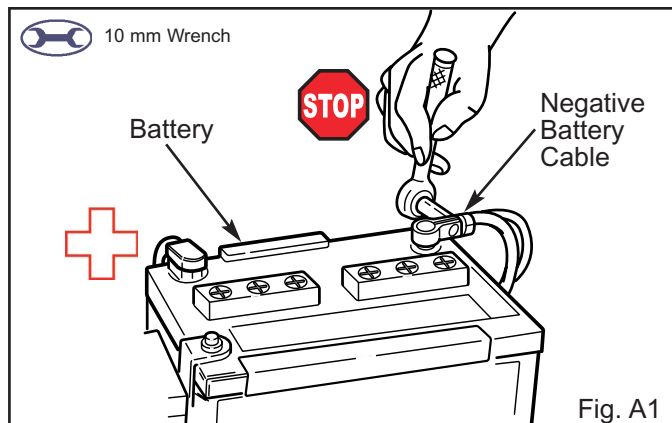


Fig. A1

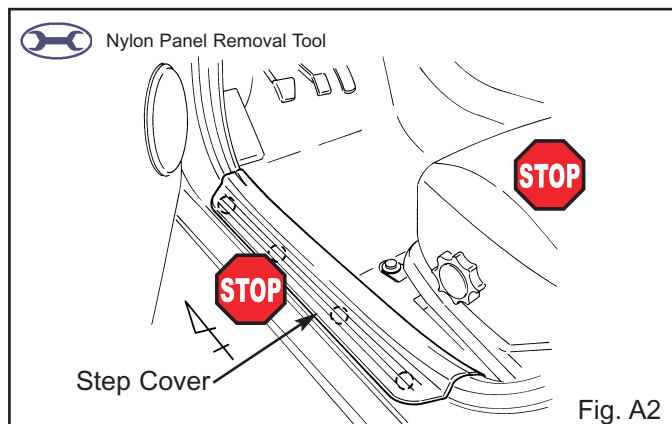


Fig. A2

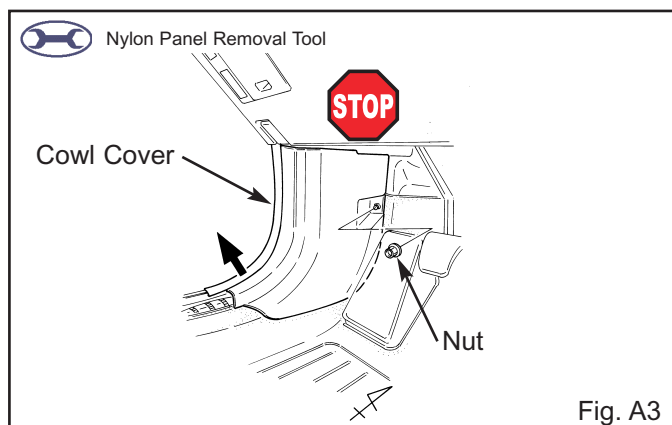


Fig. A3

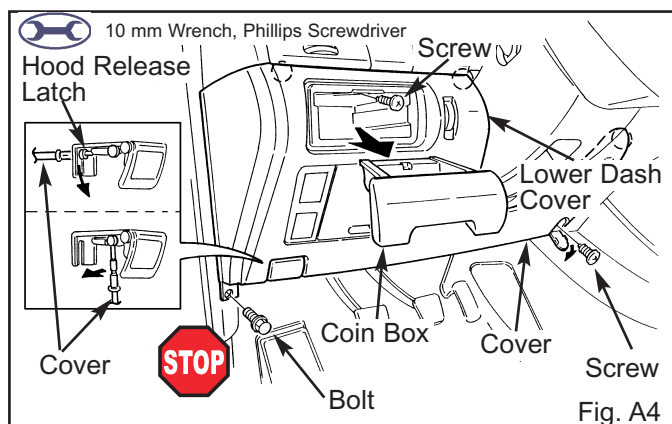


Fig. A4

6. Remove the lower dash cover. (Fig A4)

- i. Open the cover of the lower dash cover.
- ii. Remove the one bolt and one screw securing the lower dash cover.
- iii. Disconnect the rheostat connector and temperature sensor (connector and aspirator hose) from the lower dash cover.

7. Remove the metal substructure. (Fig. A5)

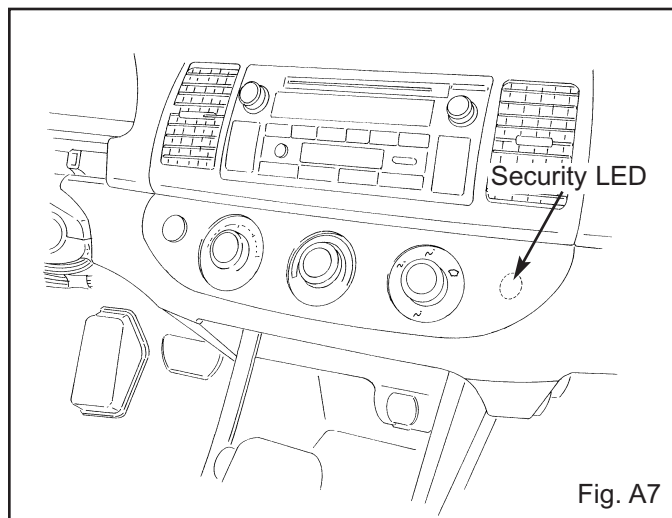
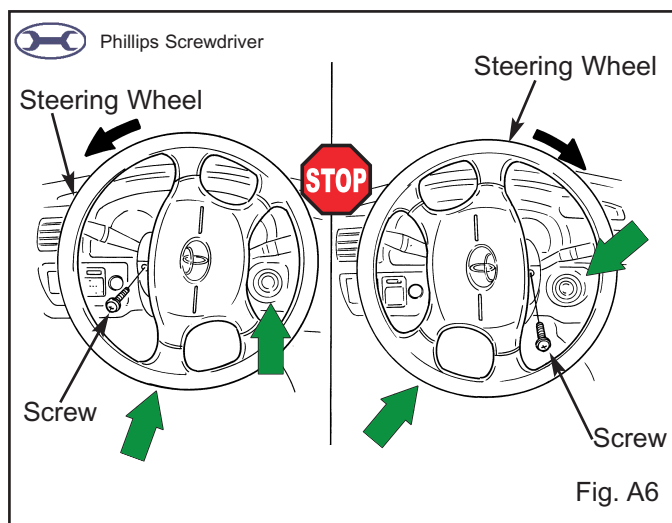
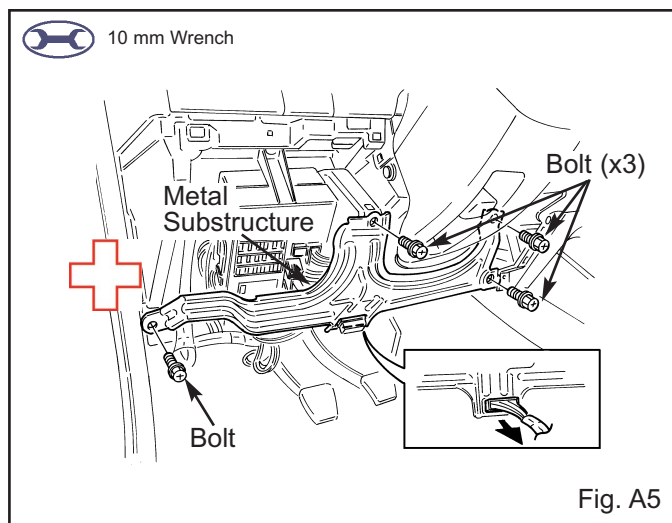
- i. Remove the four bolts securing the metal substructure.
- ii. Disconnect the diagnostic connector from the metal substructure.
- iii. Be careful to not get cut by the sharp metal edges.

8. Remove the two screws, located behind the steering wheel, securing the bottom steering column cover. (Fig. A6)

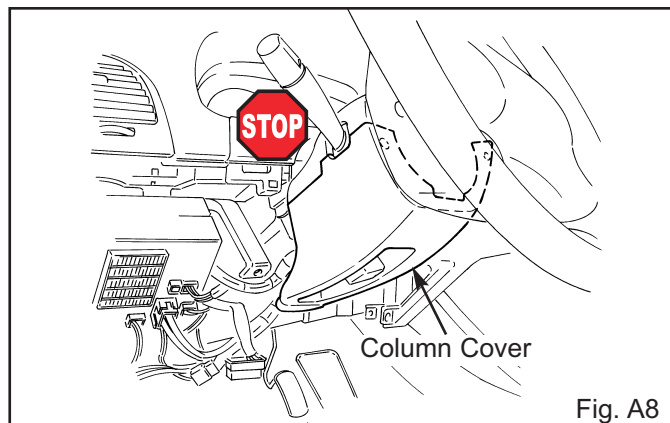
- i. Do not scratch the cover.
- ii. Insert the key into the ignition switch and turn it to ON, then turn the steering wheel left or right to gain access to the screws.

9. Remove the lower steering column cover. (Fig. A7)

- i. Do not scratch the cover.



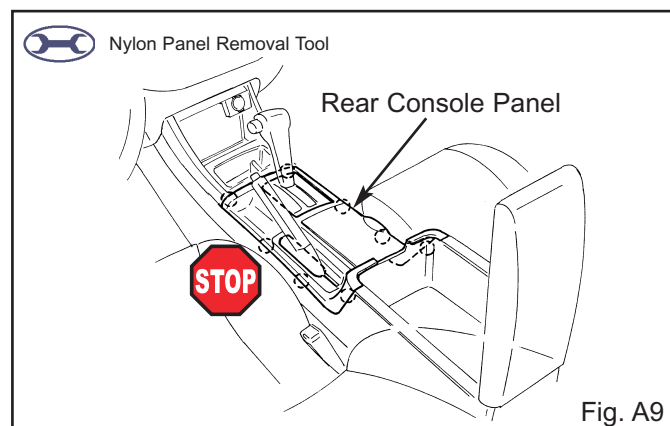
10. Identify whether the vehicle has an immobilizer system. (Fig. A8)
 - i. Look for a security LED on the heater control panel; if one is found, the vehicle has an immobilizer system.



11. For all vehicles, remove the rear console panel. (Fig. A9)



- i. Do not scratch the panel.

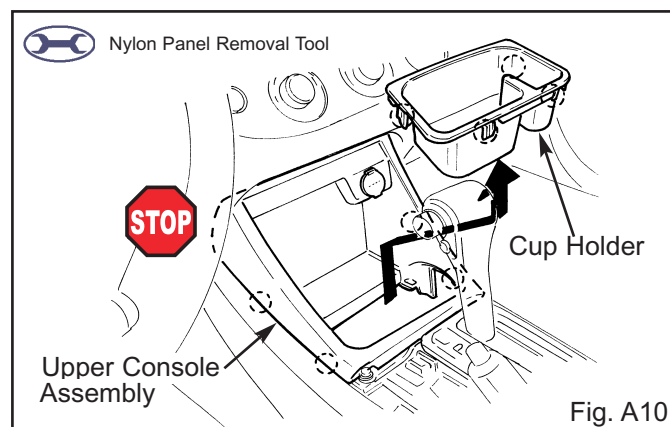


12. Remove the upper console assembly. (Fig. A10)

- i. Remove the cup holder from the front console panel.
- ii. Disconnect the power outlet connector.



- iii. Do not scratch the cover.



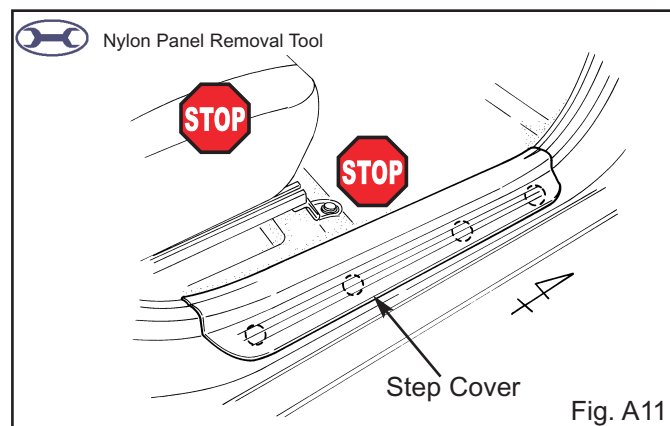
13. Remove the passenger's step cover. (Fig. A11)



- i. Cover the floor and seats before starting.



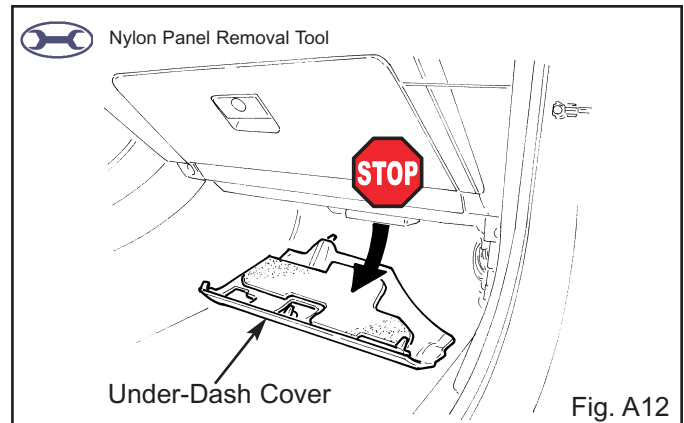
- ii. Do not scratch the cover.



14. Remove the under-dash cover.
(Fig. A12)



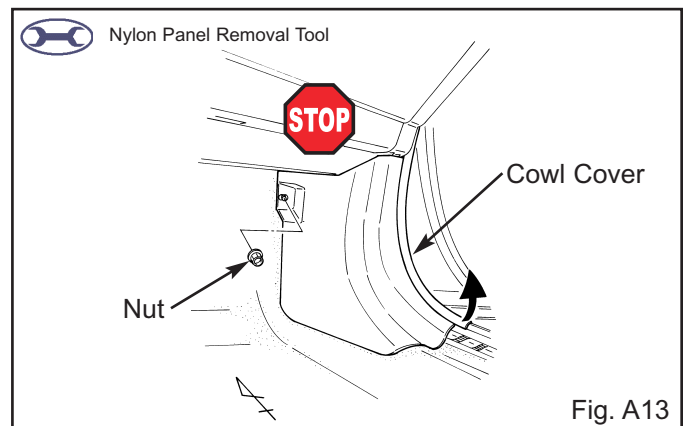
- i. Do not scratch the glove box assembly.



15. Remove the passenger's cowl cover.
(Fig. A13)



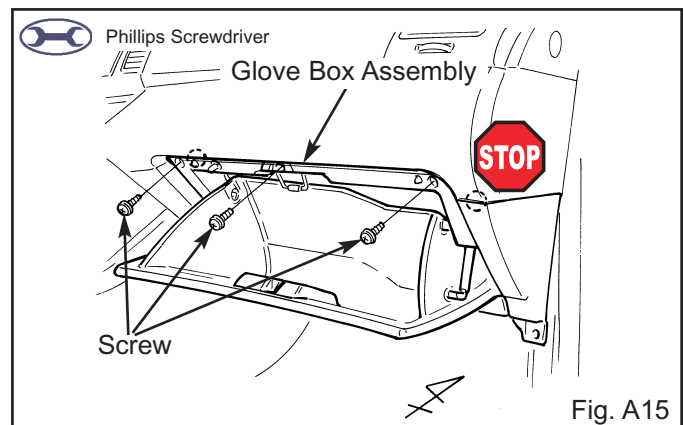
- i. Remove the nut securing the cowl cover.
ii. Do not scratch the cover.



16. Remove the glove box assembly.
(Fig. A14)



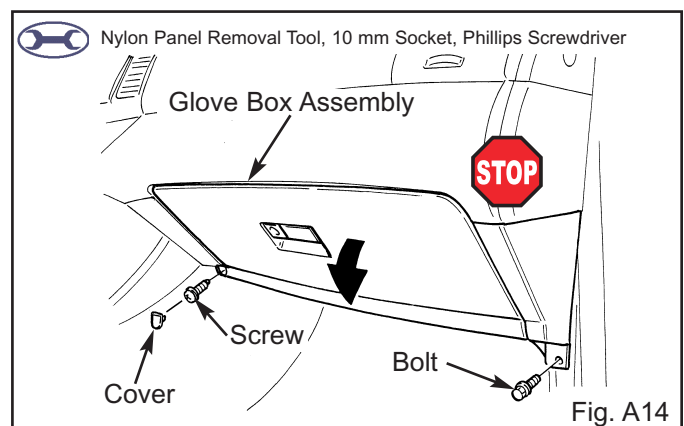
- i. Remove the three screws securing the glove box assembly.
ii. Do not scratch the glove box assembly.



17. Remove the one screw and one bolt from the glove box assembly.
(Fig. A15)



- i. Remove the cover from the glove box assembly.
ii. Do not scratch the glove box assembly.



B. V5 Harness Installation

1. Locate and disconnect the white 8P and white 2P connectors from the ignition switch. (Fig. B1)



- i. Do not pull on the wires; pull on the connectors.

2. Plug in the V5 harness' 8P connector between the vehicle harness' 8P connector and the ignition switch. (Fig. B2)



- i. Verify the connectors are plugged in securely.

3. Plug in the V5 harness' 8P connector between the vehicle harness' 8P connector and the ignition switch. (Fig. B2)



- i. Verify the connectors are plugged in securely.

4. Secure the 8P connectors to the vehicle's harness with a large wire tie. (Fig. B3)

- i. Place the right side of the 8P connector against the vehicle harness.



- ii Clip the wire tie.

5. Secure the 2P connectors to the vehicle's harness with a medium wire tie. (Fig. B3)



- i. Clip the wire tie.

6. Route the V5 harness toward the connector block area, then secure it to the vehicle harness with one medium wire tie. (Fig. B3)



- i. Clip the wire tie.

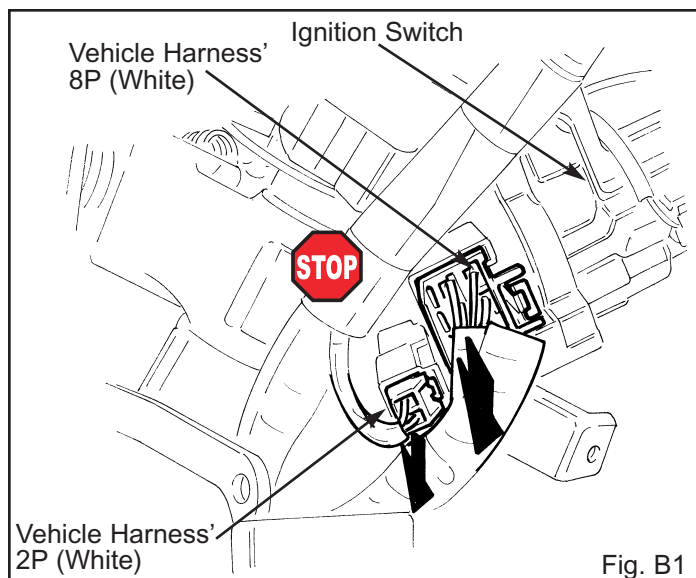


Fig. B1

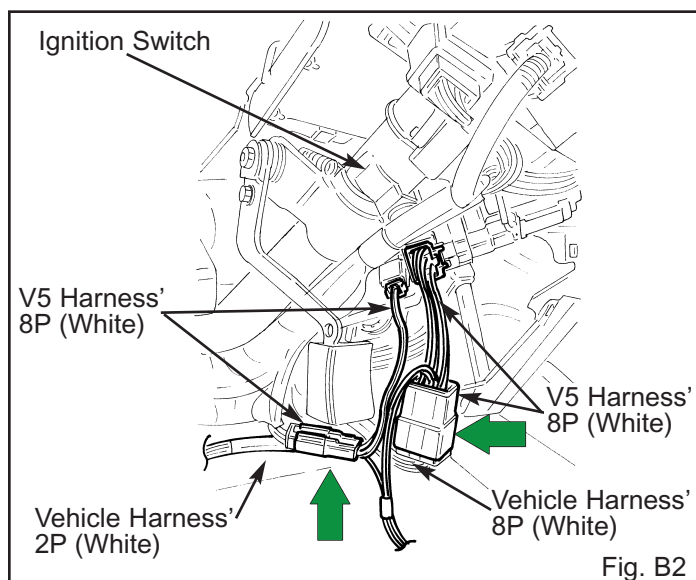


Fig. B2

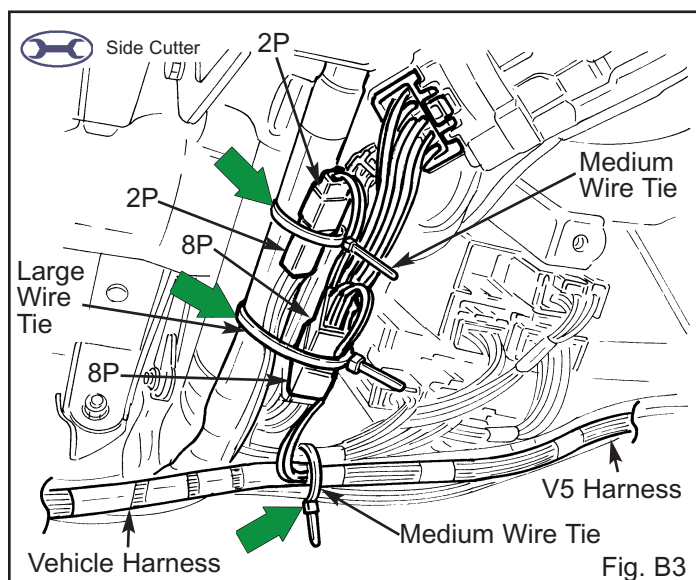


Fig. B3

7. Route the V5 harness toward the center console area, then secure it to the vehicle harness with two medium wire ties. (Fig. B4)



- i. Clip the wire ties.

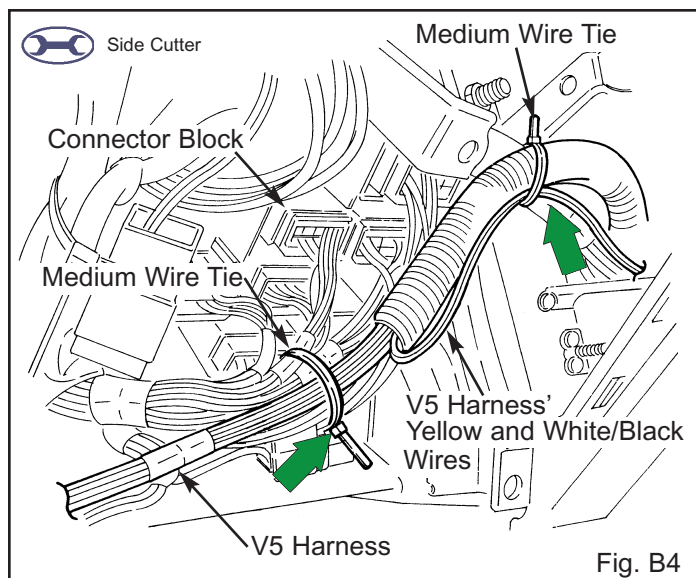


Fig. B4

FOR VEHICLES WITH
IMMOBILIZER SYSTEM ONLY.
(Steps 8-10)

8. Bundle the V5 harness' yellow and white/black wires, then secure it to the vehicle harness and V5 harness with one medium wire tie. (Fig. B5)



- i. Do not perform this step if the vehicle does not have an immobilizer system.



- ii. Clip the wire tie.

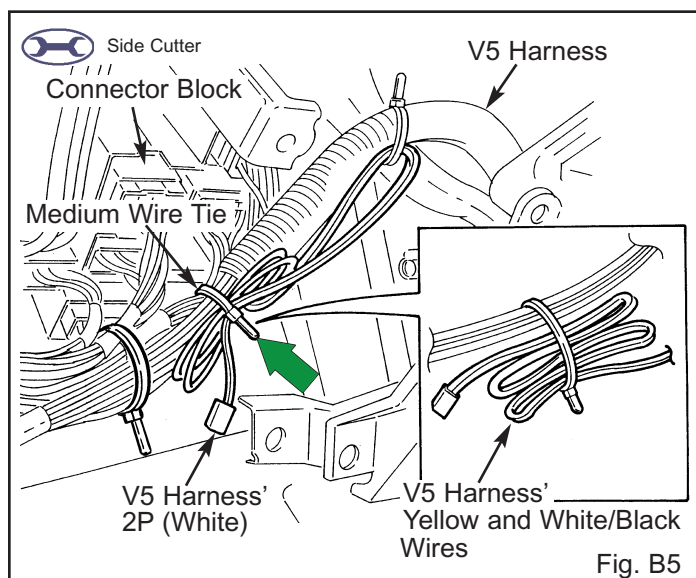


Fig. B5

9. Secure the V5 harness' status monitor 2P connector to the V5 harness with one medium wire tie. (Fig. B6)



- i. Do not perform this step if the vehicle does not have an immobilizer system.



- ii. Clip the wire tie.

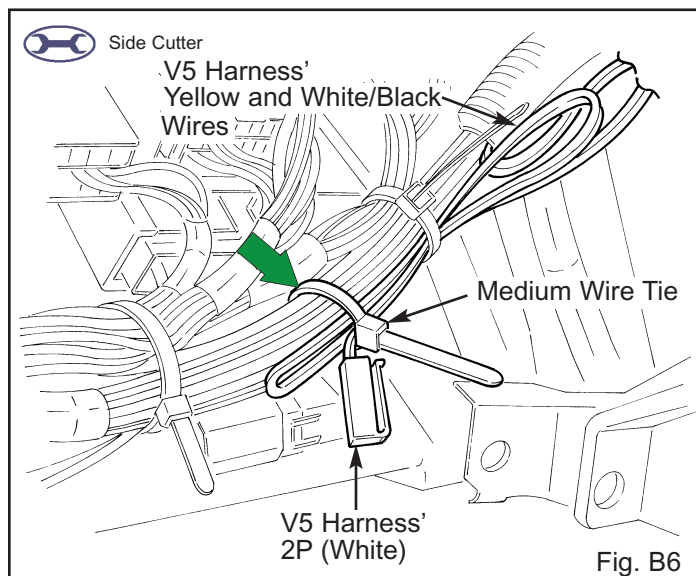


Fig. B6

10. Route the V5 harness behind the heater control panel unit, through the passenger's side of the vehicle. (Fig. B7)



i. Do not perform this step if the vehicle does not have an immobilizer system.



ii. Route the V5 harness away from any moving parts such as levers, etc.

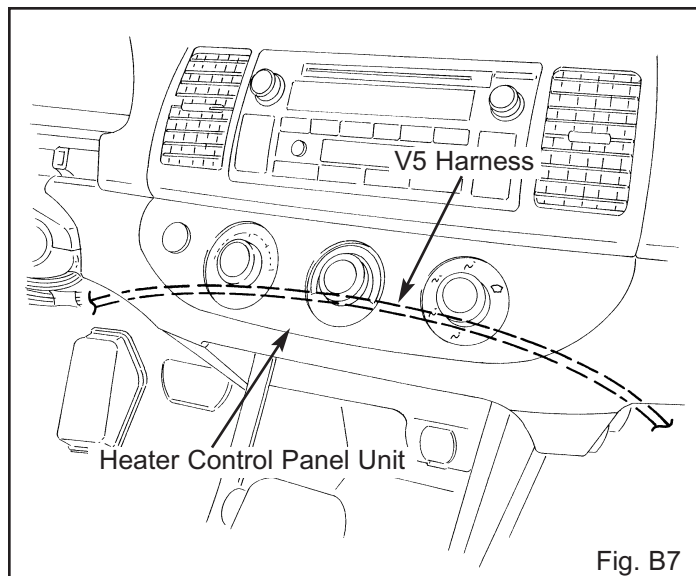


Fig. B7

FOR VEHICLES WITHOUT
IMMOBILIZER SYSTEM ONLY.
(Steps 11-12)

11. Route the yellow and white/black wires of the V5 harness toward the console area as shown, then secure it to the vehicle harness with two medium wire ties. (Fig. B8)



i. Clip the wire ties.

12. Route the V5 harness behind the heater control panel unit, through the passenger side of the vehicle. (Fig. B8)



i. Route the V5 harness away from any moving parts such as levers, etc.



ii. Careful to route the harness in front of the metal brace on the passenger side of the console as shown.

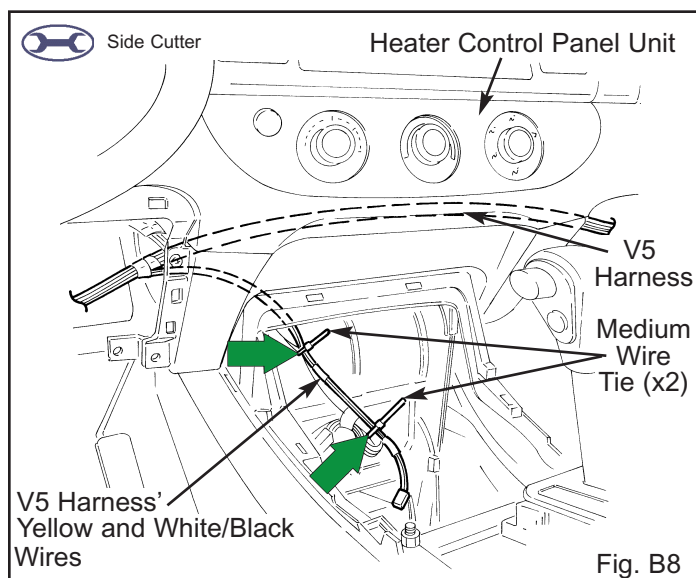


Fig. B8

13. Route the V5 harness toward the glove box area, then secure it to the vehicle harness with two medium wire ties. (Fig. B9)



i. Clip the wire ties.

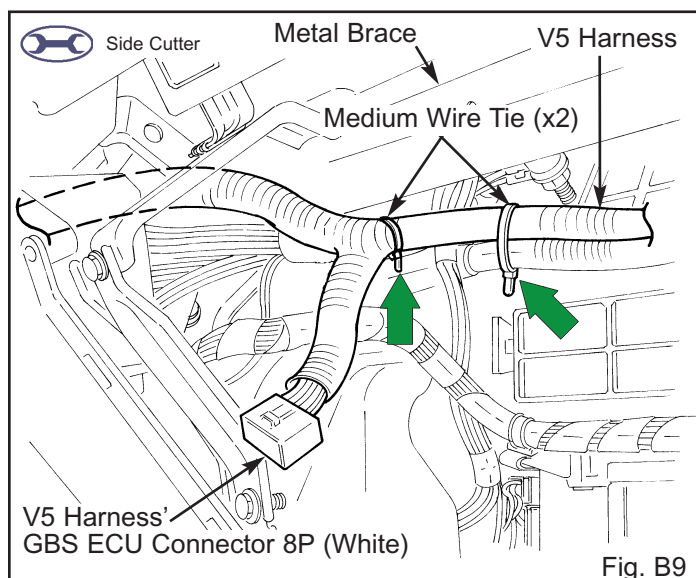
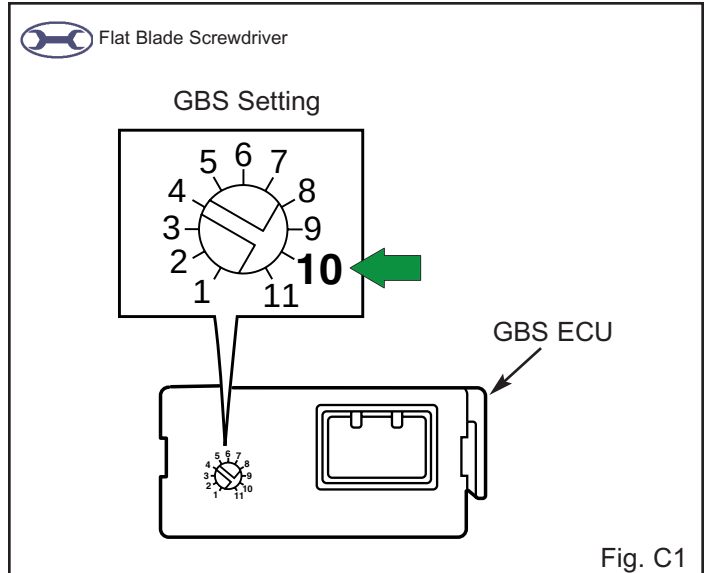


Fig. B9

C. GBS ECU preparation and Installation

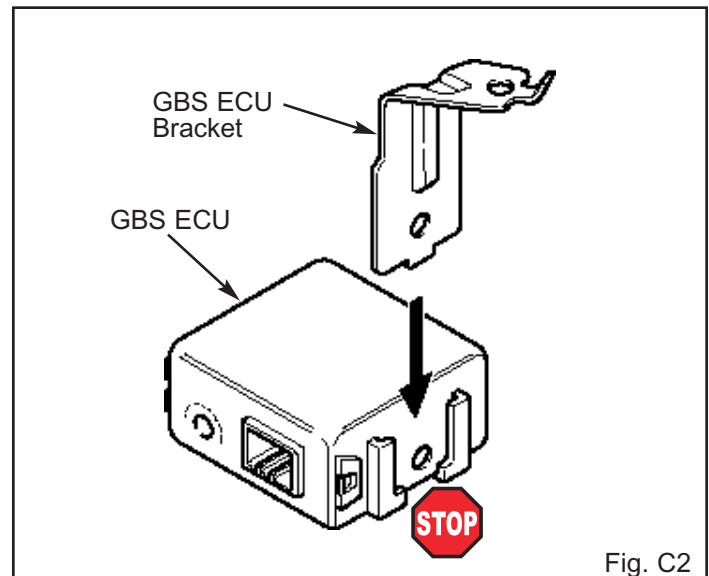
- ➔ 1. Turn the GBS adjustment screw on the GBS ECU to the "10" position. (Fig. C1)



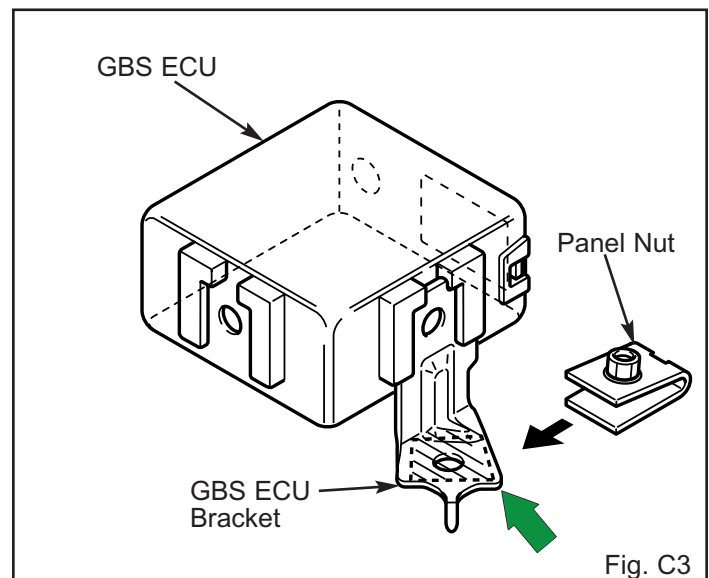
2. Insert the GBS ECU mounting bracket into the indicated bracket slot on the GBS ECU. (Fig. C2)



- i. Insert the mounting bracket into the correct slot; you have only one chance to install it properly.



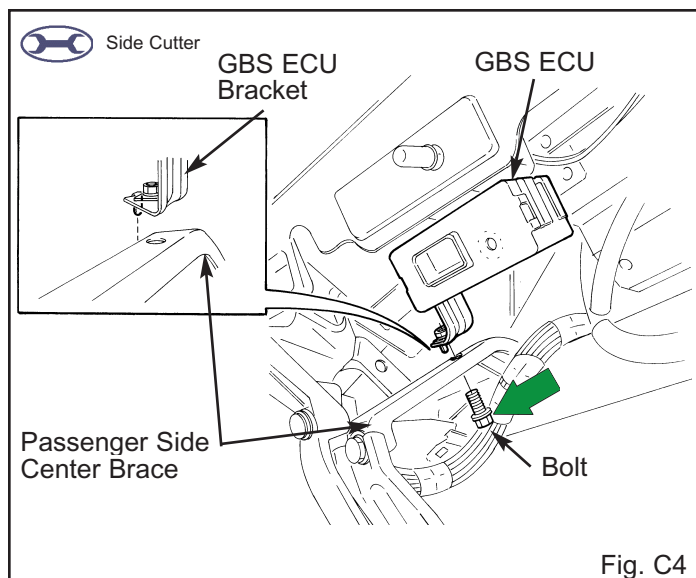
- ➔ 3. Locate and install the panel nut to the GBS ECU mounting bracket as shown. (Fig. C3)



4. Using the bolt, secure the GBS ECU to the passenger's side center brace in the center console area. (Fig. C4)



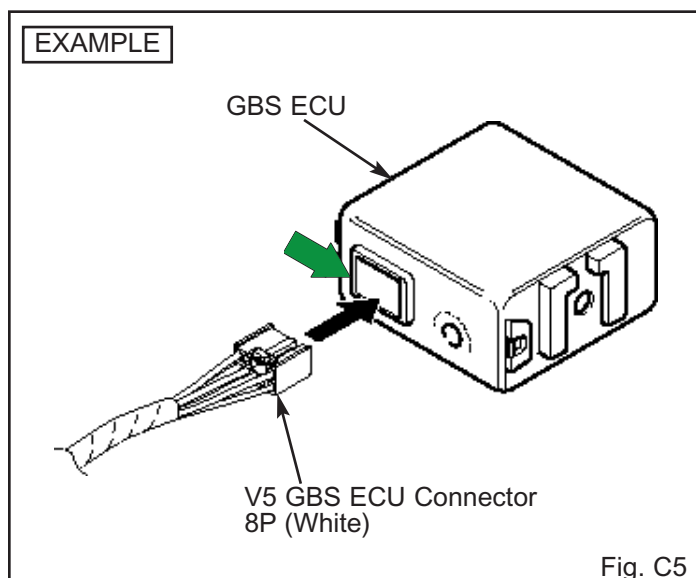
- i. Secure the GBS ECU as shown.



5. Plug in the V5 harness' white 8P connector to the GBS ECU. (Fig. C5)



- i. Verify the connector is plugged in securely.



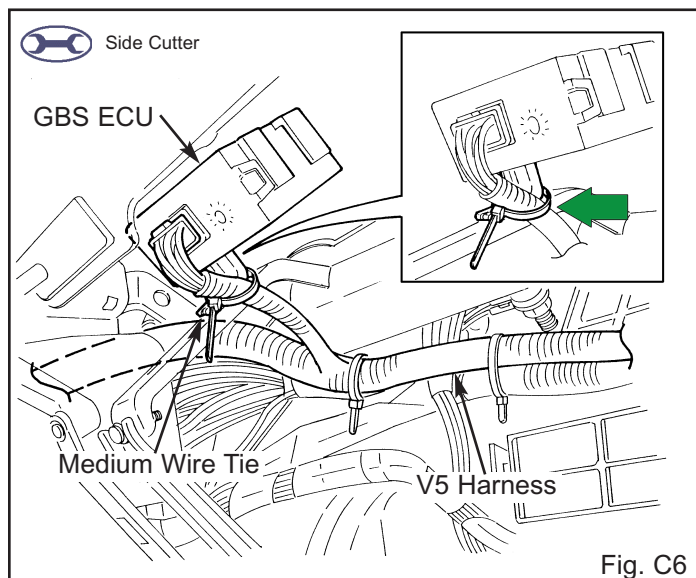
6. Secure the V5 harness to the GBS ECU mounting bracket with one medium wire tie. (Fig. C6)

- i. Clip the wire tie.



7. Route the V5 harness toward the glove box area, then secure it to the vehicle harness with one medium wire tie. (Fig. C6)

- i. Clip the wire tie.



➔ 8. Route the V5 harness through the glove box area, then V5 harness white 26P connector behind the reinforcement as shown. (Fig. C7)

➔ 9. Secure the V5 harness to the vehicle harness with two medium wire ties. (Fig. C7)

i. Clip the wire ties.

10. Locate and remove the tape securing the vehicle harness' white 2P connector from the glove box area near the engine control module. (Fig. C8)



i. Do not cut the vehicle wires.

11. Plug in the V5 harness' white 2P connector into the vehicle's white 2P connector. (Fig. C9)

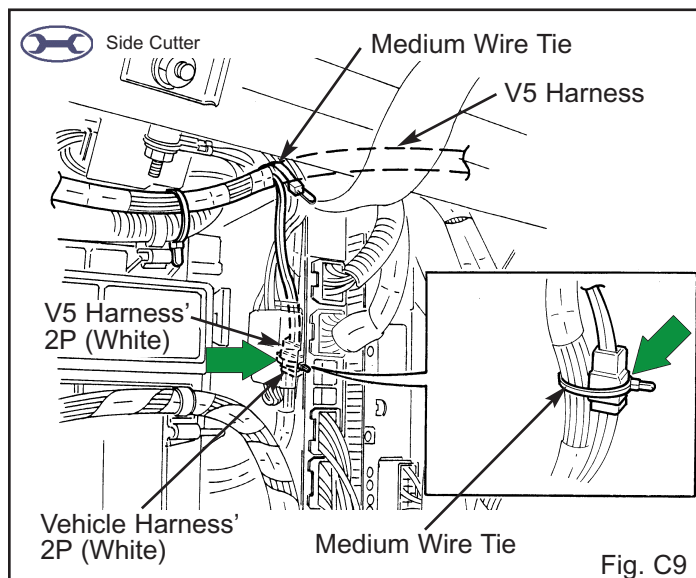
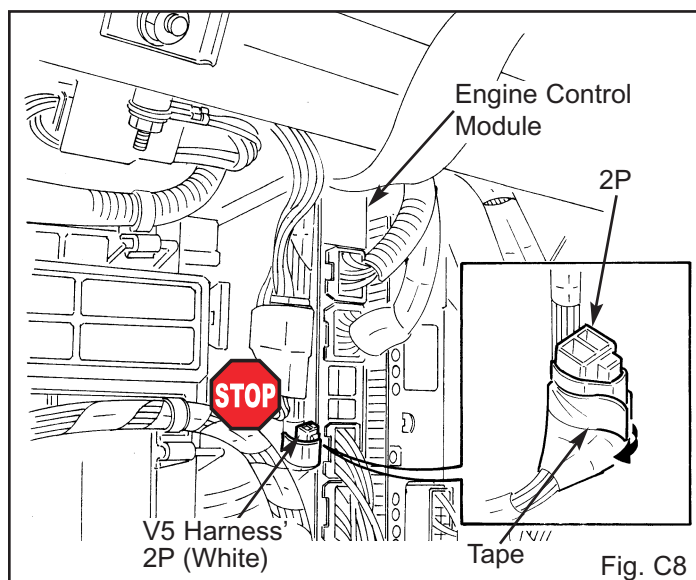
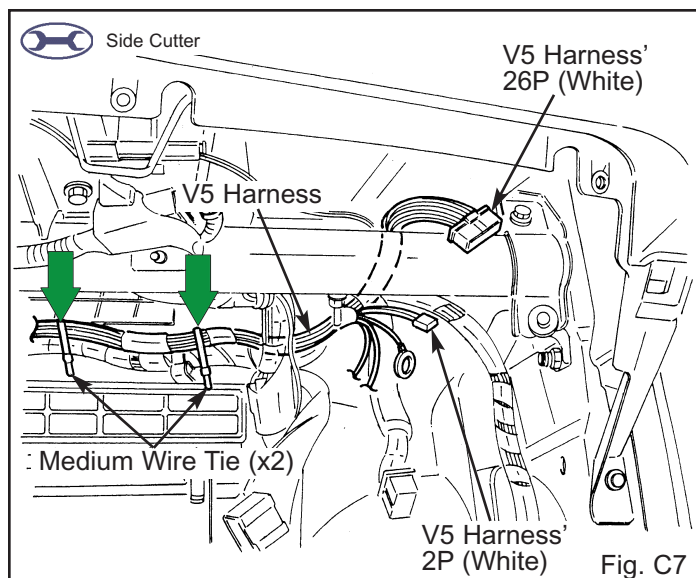
➔ i. Verify the connectors are plugged in securely.

➔ 12. Secure the V5 harness to the vehicle harness with one medium wire tie. (Fig. C9)

i. Clip the wire tie.

➔ 13. Secure the 2P connectors to the vehicle harness with one medium wire tie. (Fig. C9)

i. Clip the wire tie.

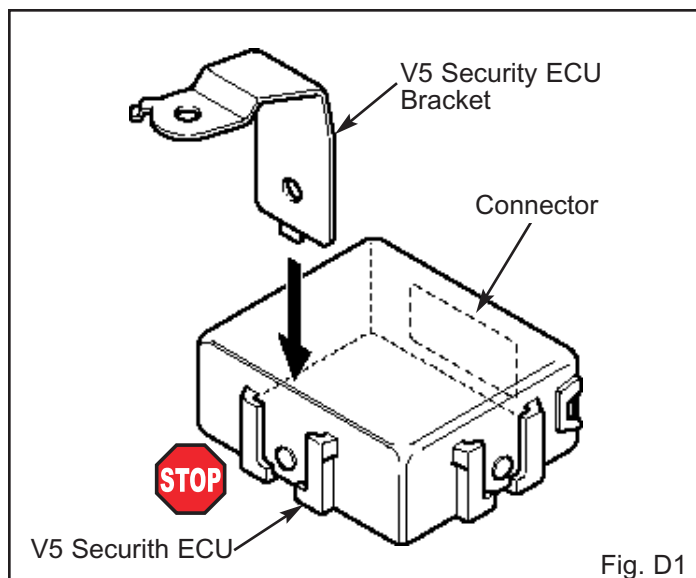


D. V5 ECU Preparation and Installation

1. Insert the V5 security ECU mounting bracket into the indicated bracket slot on the V5 security ECU. (Fig. D1)



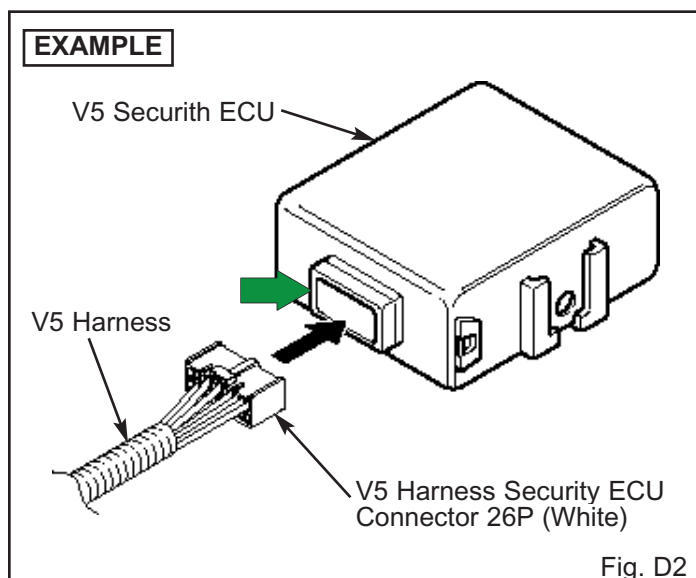
- i. Insert the mounting bracket into the correct slot; you have only one chance to install it properly.



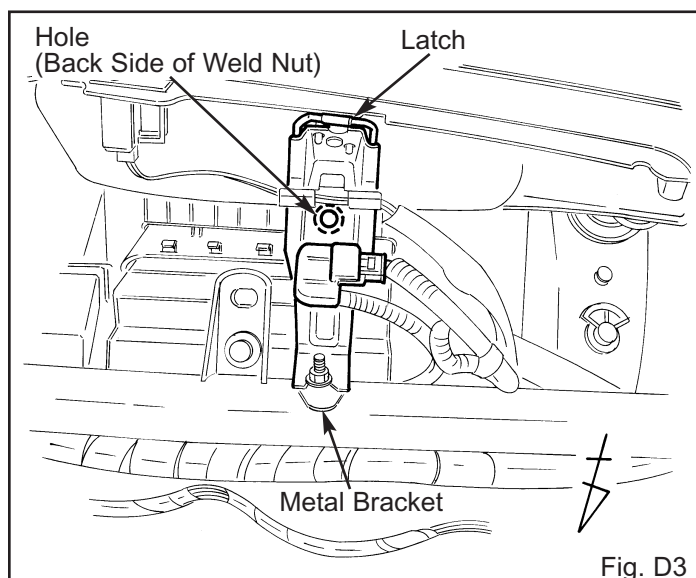
2. Plug in the V5 harness' white 26P connector to the V5 security ECU. (Fig D2)



- i. Verify the connector is plugged in securely.



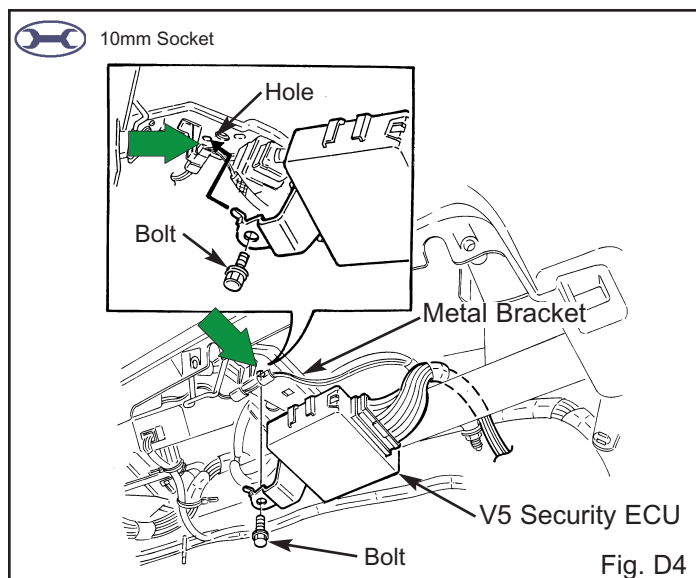
3. Looking up from beneath the dash, locate the metal bracket in the hole near the glove box lid latch. (Fig. D3)



4. Using the supplied bolt, mount the V5 security ECU to the metal bracket in the glove box area. (Fig. D4)



- i. Mount the V5 security ECU as shown.

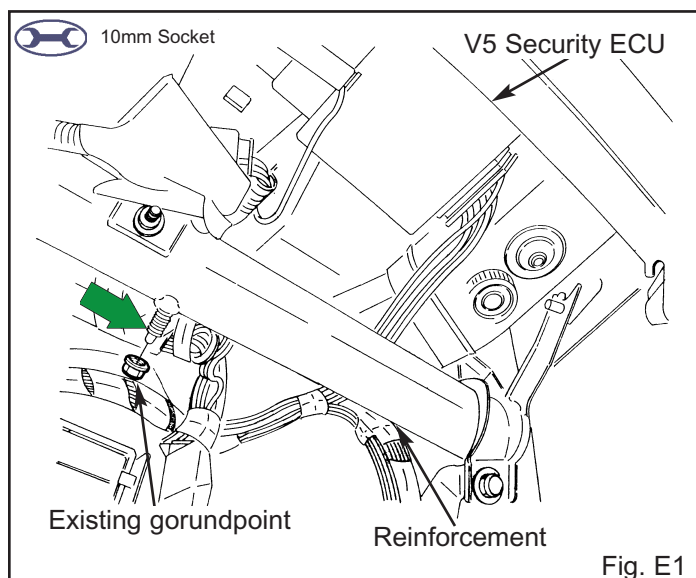


E. V5 Harness Installation (continued)

1. Locate and remove the existing nut from the rightmost groundpoint on the reinforcement. (Fig. E1)



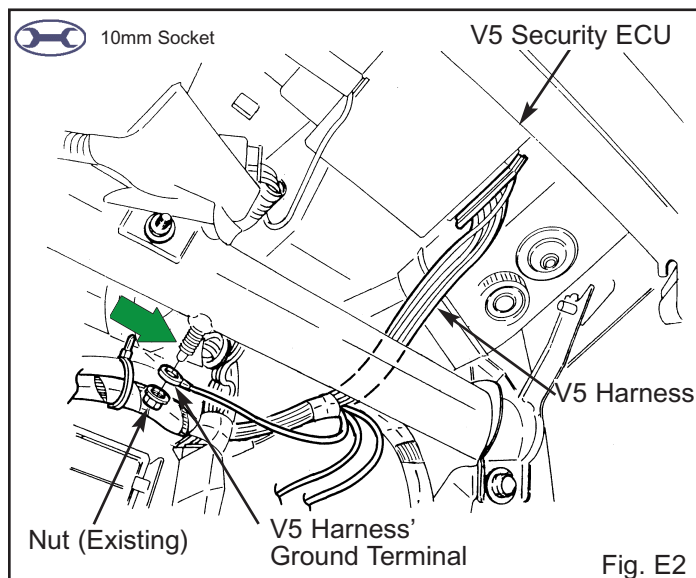
- i. Do not discard the nut.



2. Secure the V5 harness' ground wire terminal, along with the vehicle harness' ground wire terminal, using the existing nut. (Fig. E2)

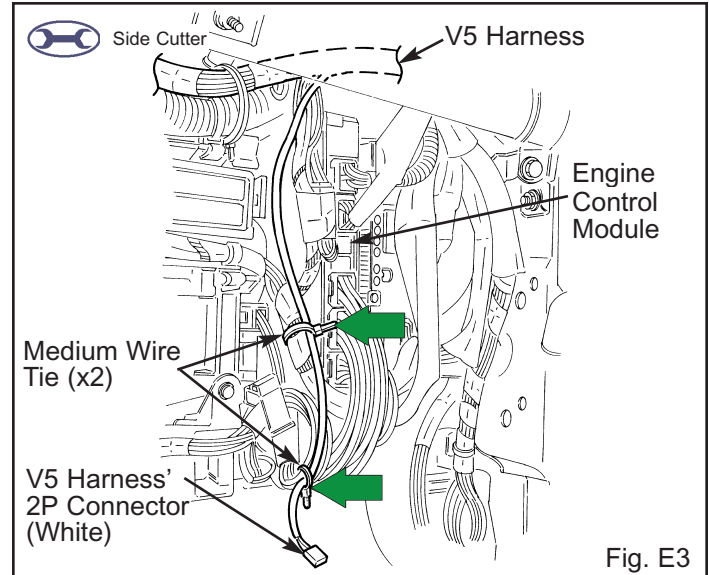


- i. Verify the nut is tightened securely.



- ➔ 3. Route the V5 harness' white 2P connector downward toward the glove box area, then secure it to the vehicle harness with two medium wire ties. (Fig. E3)

i. Clip the wire ties.



FOR VEHICLES WITH
IMMOBILIZER SYSTEM ONLY.
(Steps 4-6)

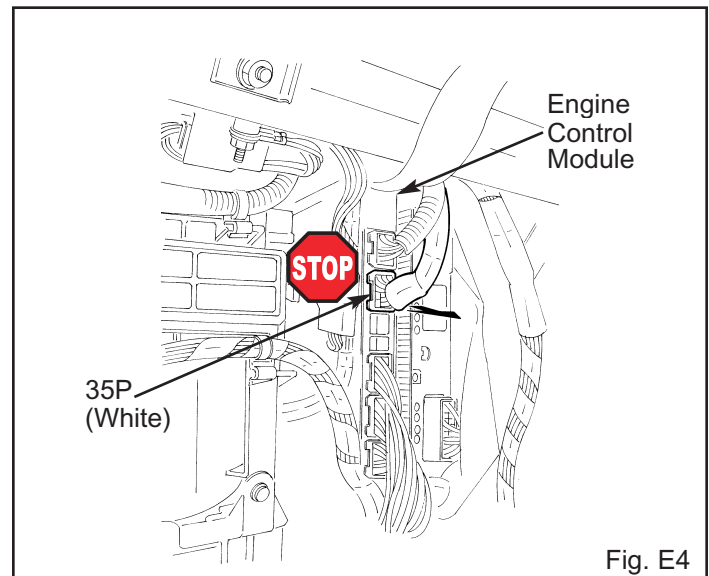
4. Locate and disconnect the white 35P connector from the Engine Control Module. (Fig.E4)



i. Do not perform this step if the vehicle does not have an immobilizer system.



ii. Do not pull on the wires; pull on the connector.



5. Locate the wire in the second row from the top, first space from the left, and attach the V5 harness' VIOLET wire with one splicing connector. (Fig. E5)



- i. Do not perform this step if the vehicle does not have an immobilizer system.



- ii. Turn the connector so the wires face you and the tab is on top.

NOTE: For the splice, the tape on the vehicle harness may need to be sliced open 20mm with Side Cutter in order to gain access to the splicing wire from the vehicle harness.



- iii. Do not damage the wires.



- iv. Verify the correct wires are chosen for splicing.



- v. Make sure the splicing connector are applied properly.



6. Reconnect the 35P connector, then secure the excess VIOLET WIRE to the vehicle harness with one medium wire tie. (Fig. E5)



- i. Do not perform this step if the vehicle does not have an immobilizer system.



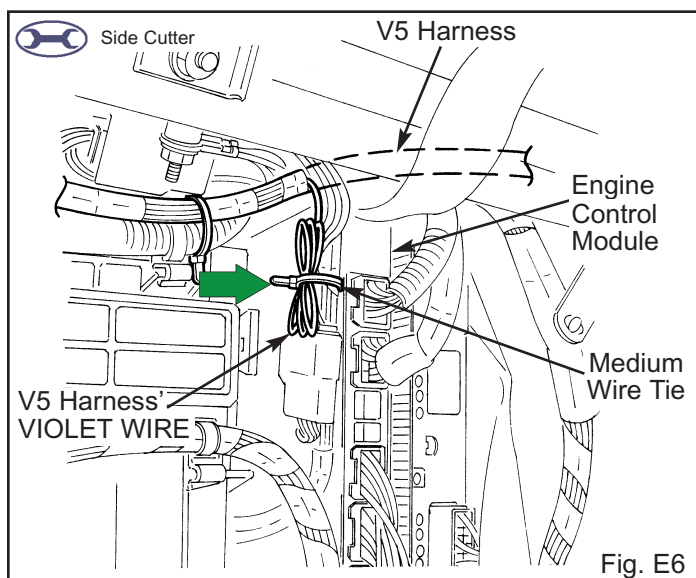
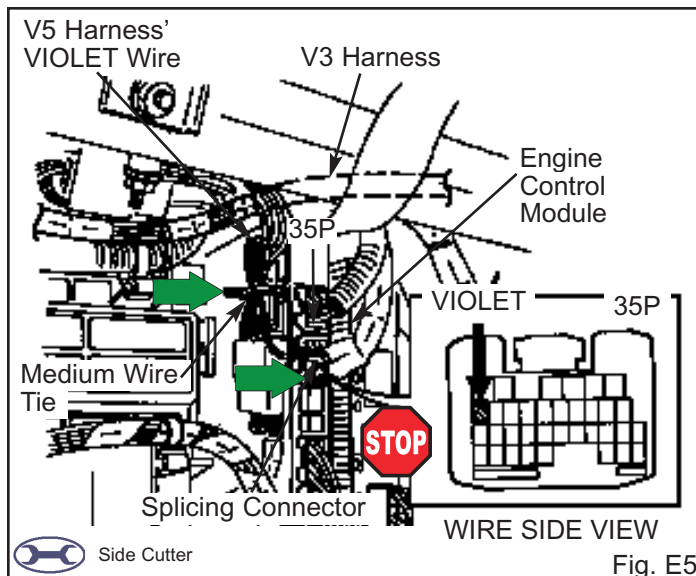
- ii. Do not pull on the wires; pull on the connector.

FOR VEHICLES WITHOUT
IMMOBILIZER SYSTEM ONLY.
(Step 7)

7. Bundle and secure the unused V5 harness VIOLET wire to the vehicle's harness with one medium wire tie. (Fig. E6)

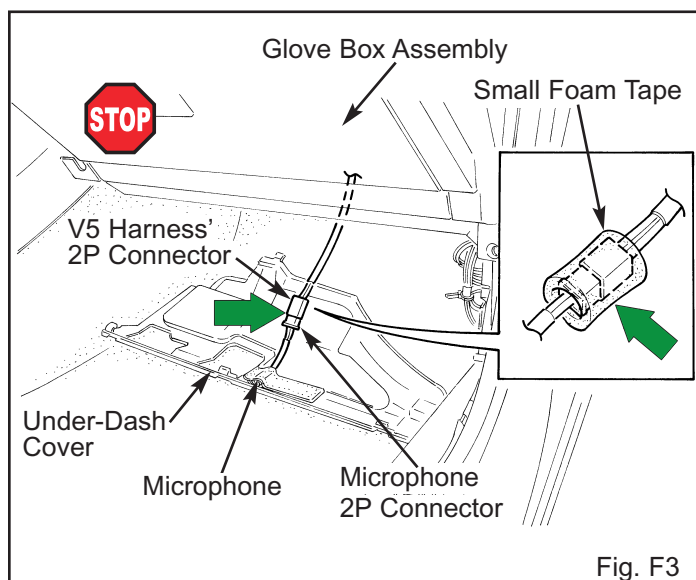
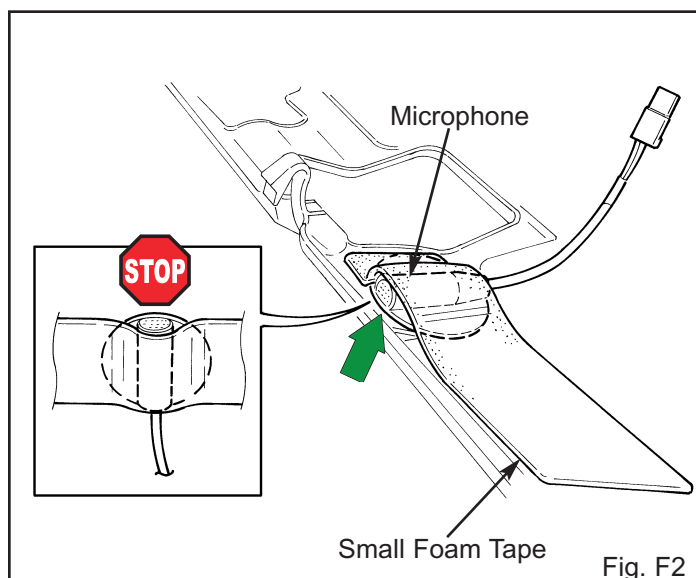
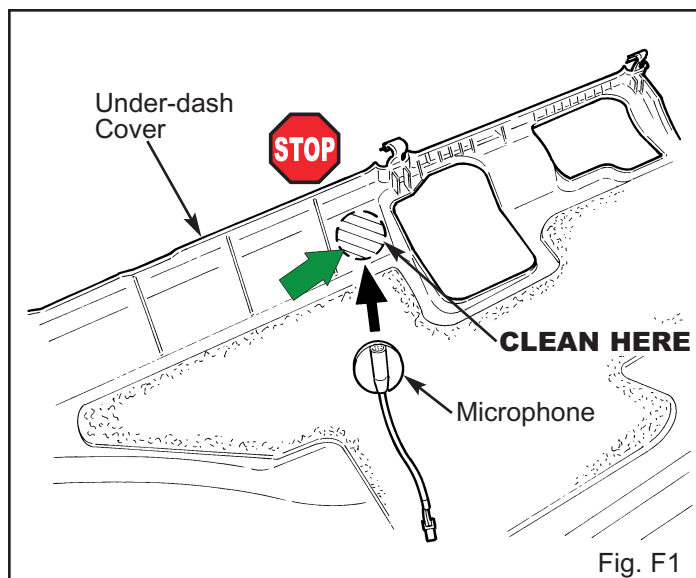


- i. Clip the wire tie.



F. Microphone Installation

- ➡ 1. Using 3M Prep Solvent -70 clean the area indicated on the back side of the under-dash cover. (Fig. F1)
 - STOP i. Do not scratch the panel.
2. Remove the backing sheet and secure the microphone to the back side of the under-dash cover. (Fig. F1)
 - ➡ i. Secure the microphone as shown.
 - STOP ii. Do not touch the adhesive surface of the microphone.
 - ➡ iii. Press the microphone to the glove box under panel firmly.
3. Secure the microphone with one small strip of foam tape. (Fig. F2)
 - STOP i. Do not cover the opening of the microphone with the foam tape.
4. Refit the glove box assembly (Fig. F3)
 - STOP i. Do not scratch the panel.
5. Plug in the microphone's 2P connector to the V5 harness' 2P connector. (Fig. F3)
 - ➡ i. Verify the connectors are plugged in securely.
- ➡ 6. Wrap the 2P connector with one small strip of foam tape. (Fig. F3)
7. Refit the under-dash cover. (Fig. F3)
 - STOP i. Do not scratch the cover.

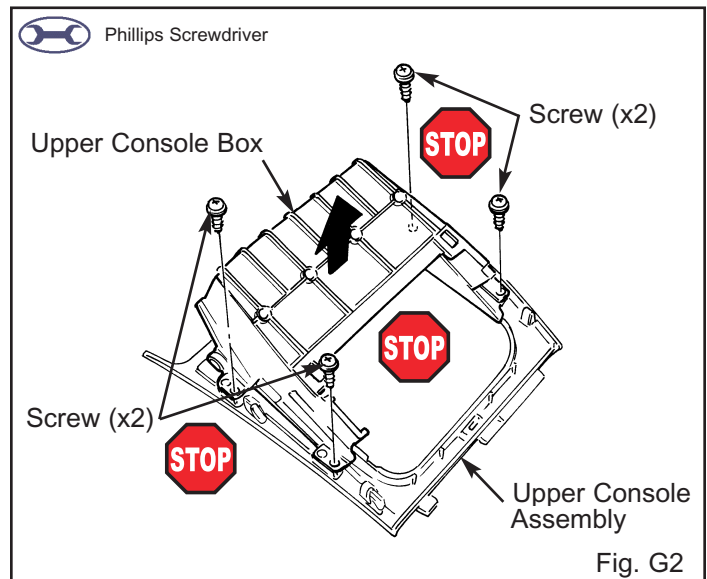
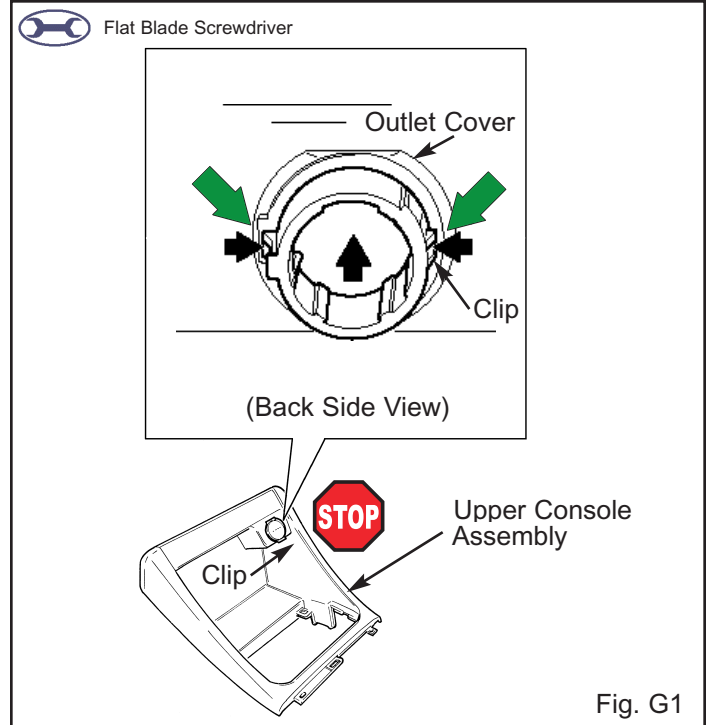


G. Status Monitor Installation

FOR VEHICLES WITHOUT
IMMOBILIZER SYSTEM ONLY.
(Steps 1-11)

NOTE: The vehicle must not be equipped with seat heaters. The console panel kit is required.

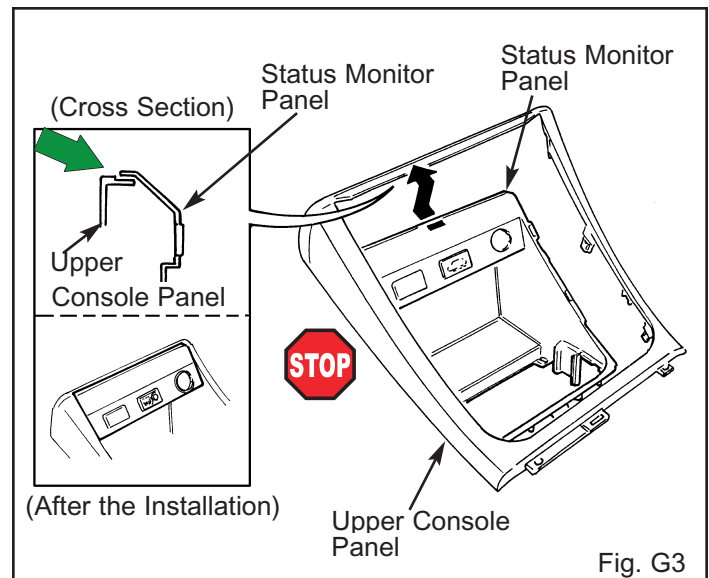
1. Open the power outlet cover from the upper console panel. (Fig. G1)
 - i. Do not scratch the panel.
 - ii. From the backside of the upper console panel, push the left clip of the outlet cover inward to dislodge the outlet cover with the tip of the screwdriver.
 - iii. Squeeze the right clip and push out the outlet cover.
2. Remove the upper console box from the upper console assembly. (Fig. G2)
 - i. Remove the four screws securing the upper console assembly.
 - ii. Do not discard the screw.
 - iii. Do not scratch the panel.



3. Install the status monitor panel from the console panel kit into the upper console panel. (Fig. G3)



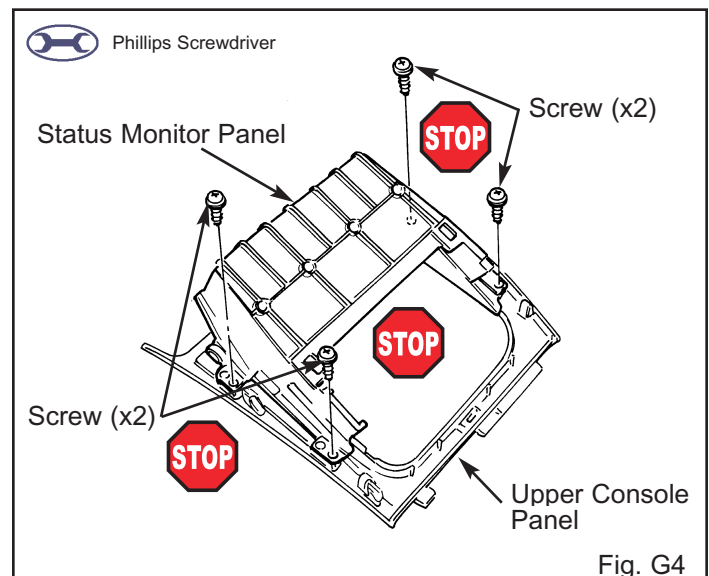
- i. Do not scratch the panel.
- ii. Verify the panels fit together properly with no uneven gaps between them. If the panels do not fit properly together as shown in the close-up box, Figure G3, the panels may snap and break when proceeding with the next installation step.



4. Using the four screws, secure the status monitor panel to the upper console panel. (Fig. G4)



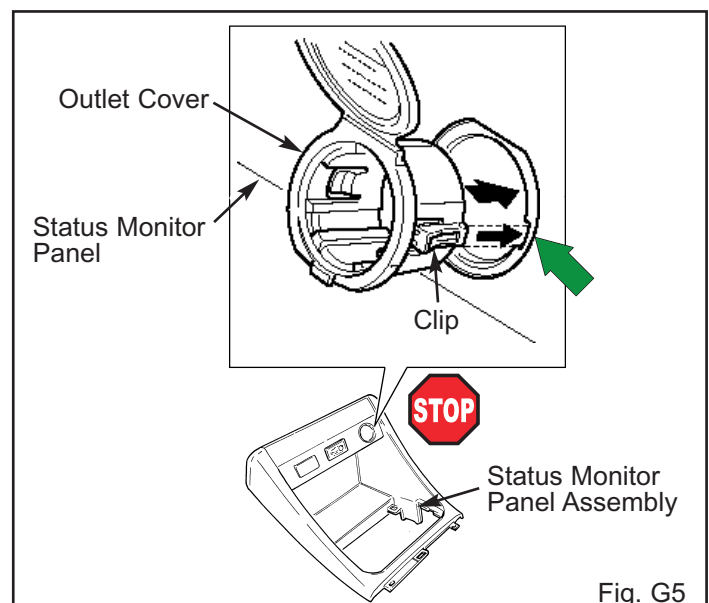
- i. Do not scratch the panel.



5. Plug the outlet cover into replacement status monitor panel assembly provided in the console panel kit. (Fig. G5)



- i. Verify the outlet cover is correctly installed in the status monitor panel provided in the kit.



6. Attach one small piece of foam tape to the back side of the status monitor panel assembly. (Fig. G6)



- i. Do not scratch the panel.

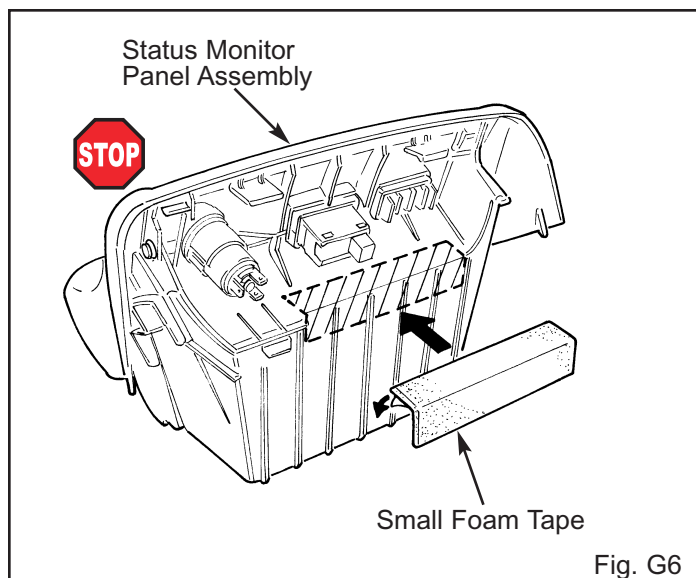


Fig. G6

7. Plug in the V3 harness' white 2P connector to the status monitor. (Fig. G7)



- i. Verify the connector is plugged in securely.



- ii. Do not scratch the panel.

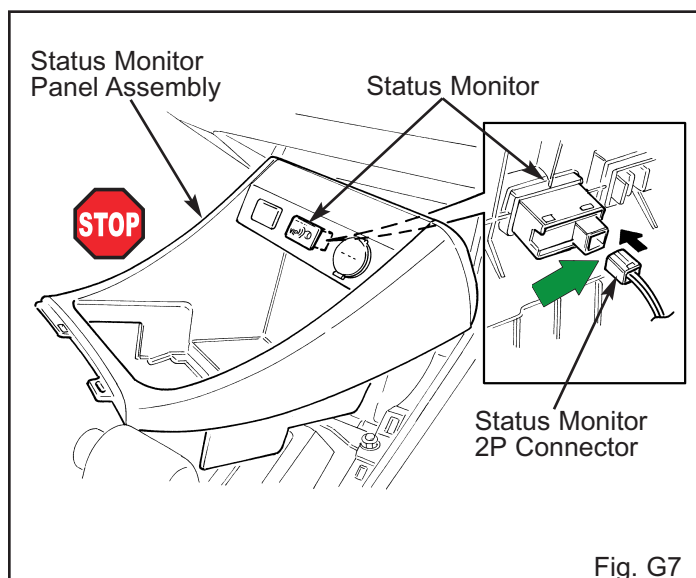


Fig. G7

8. Reinstall the status monitor panel assembly into the center console. (Fig. G8)



- i. Do not scratch the panel.



- ii. Reconnect the power outlet assembly.

9. Install the cup holder into the status monitor panel assembly. (Fig. G8)



- i. Do not scratch the panel.

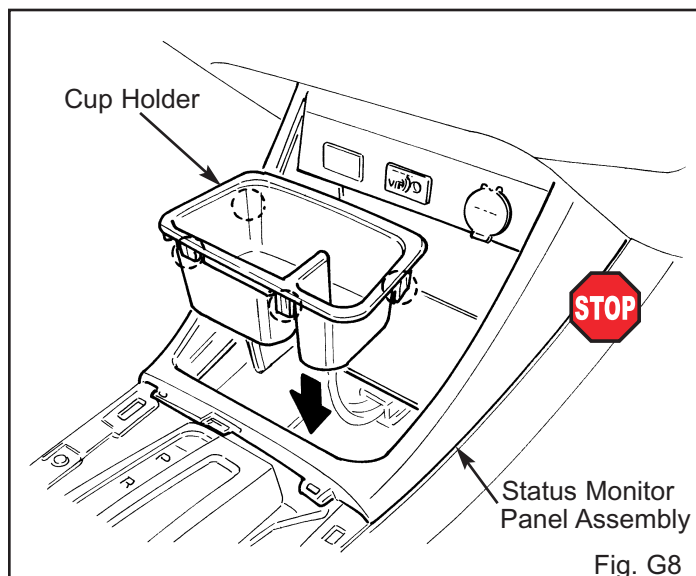
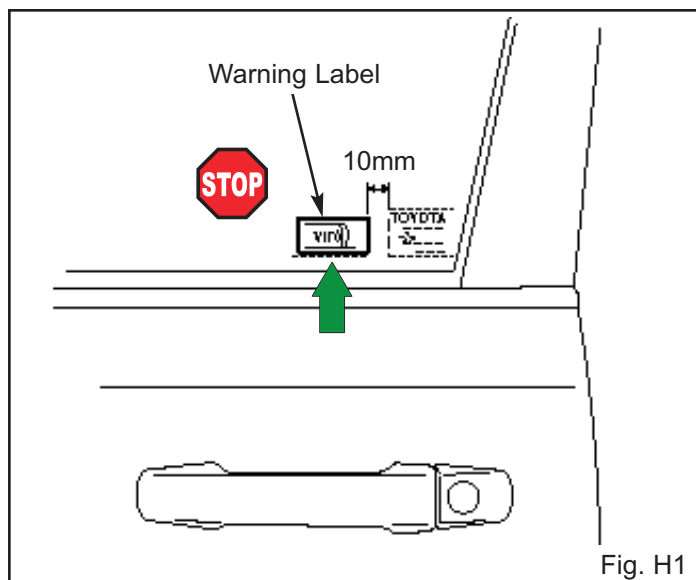


Fig. G8

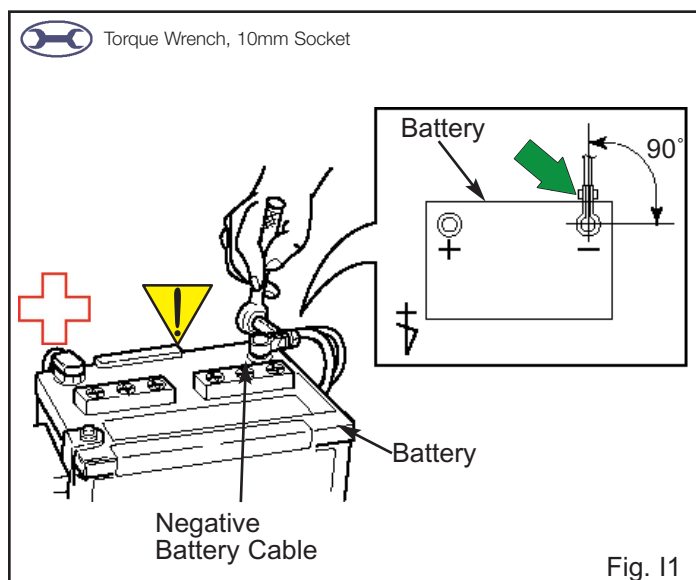
H. Warning Label Installation

- ➔ 1. Clean the inside surface of the front door's windows. (Fig. H1)
- ➔ 2. Place the warning label on the inside surface of the front door's windows as shown. (Fig. H1)
 - ➔ i. Use a piece of clear adhesive tape to lift the labels off of their protective backing sheet.
 - STOP ii. Do not touch the adhesive surface of the warning labels.



I. Completing the Installation

1. Complete the reassembly of the vehicle.
 - ➔ i. Reconnect any disconnected connectors.
 - ➔ ii. Verify the panels fit together properly with no uneven gaps between them.
2. Clean up and remove any trash.
3. Reconnect the vehicle's negative battery cable. (Fig.I1)
 - ➔ i. Position the negative terminal at an angle of 90° to the battery as shown.
 - ⚠ ii. Tighten the nut with 36in.•lbs of torque.
 - ⊕ iii. Be careful not to touch the positive battery terminal.
- ➔ 4. Place the owner's manual, warranty card, and remote controls in their protective bags and place them in the glove box.





Section III - Functional Verifications

Check:

Look for:

Accessory Function Checks

- ☐ Press and release the remote control's lock button to start the system's arming process.

- ☐ Wait 30 seconds.

- ☐ Press and release the remote control's unlock button to disarm the system.

Open the driver's door, insert the key into the ignition switch and turn it to "ON". Roll down all the windows, remove the key and exit the vehicle.

- ☐ Arm and disarm the system with the remote again, then wait 30 seconds.

- ☐ Press and release the remote control's unlock button again to stop the arming process.

- ☐ Insert the key into the driver's door key cylinder and turn it toward the front of the vehicle to start the arming process.

- ☐ Wait 30 seconds.

- ☐ Reach inside and manually unlock the driver's door to trigger an alarm.

1. The tail and marker lights flash once.
The buzzer chirps once.
All doors lock.
The Status Monitor's LED or the Immobiliser System's LED lights up.
2. After 30 seconds, the LED starts flashing; the system is now armed.
3. The tail and marker lights flash twice.
The buzzer chirps twice.
The driver's door unlocks.
The LED stops flashing.
4. The doors automatically relock.
The system automatically starts the arming process.
5. Refer to step # 3.
6. All doors lock.
The LED lights up.
7. After 30 seconds, the LED starts flashing; the system is now armed.
8. The driver's door automatically relocks.
The horn sounds repeatedly.
The headlights flash repeatedly.
The tail and marker lights flash repeatedly.
The LED lights up.



Section III - Functional Verifications

Check:

☐ Manually unlock the driver's door again and hold it unlocked, open the door, then sit in the driver's seat.

☐ Insert the key into the ignition switch and turn it to "START" to stop the alarm.

Turn the key back to "LOCK", remove it, then exit the vehicle.

☐ With the door open, press the lock switch on the door to lock the doors, then close the door to start the system's arming process.

☐ Wait 30 seconds.

☐ Reach inside and manually unlock the front passenger's door to trigger an alarm.

☐ Press and release the remote control's unlock button to stop the alarm.

☐ Press and release the remote control's lock button to start the system's arming process.

☐ Go to a rear passenger door and unlock it to stop the arming process.

Look for:

9. The driver's door lock attempts to lock repeatedly.
The horn continues to sound repeatedly.
The headlights, tail lights and marker lights continue flashing.
The LED remains on.

10. The horn stops sounding.
All the lights stop flashing and/or turn off.
The LED turns off.
The starter cranks and the engine starts.

11. All doors lock.
The LED lights up.

12. After 30 seconds, the LED starts flashing; the system is now armed.

13. The front passenger's door automatically relocks.
The horn sounds repeatedly.
The headlights flash repeatedly.
The tail and marker lights flash repeatedly.
The LED lights up.

14. The horn stops sounding.
All the lights stop flashing.
The LED turns off.

15. Refer to step # 1.

16. The LED turns off.



Section III - Functional Verifications

Check:

- ☐ Walk around the vehicle and perform the two previous steps with each remaining door and the trunk.

Roll up all windows, remove the key and exit the vehicle.

- ☐ Press and release the remote control's lock button to start the arming process.
- ☐ Wait 30 seconds.

Perform the following check in a temperature controlled environment.

- ☐ With the tip of a key, lightly tap the center of the driver's door glass.
- ☐ With moderate force, tap the center of the driver's door window again to trigger the warn away alarm.
- ☐ Insert the key into the driver's door key cylinder and turn it toward the back of the vehicle to stop the alarm.

Look for:

- 17. Refer to step # 15 and 16.
- 18. Refer to step # 1.
- 19. After 30 seconds, the LED starts flashing; the system is now armed.
- 20. The alarm should not be triggered.
- 21. The horn sounds repeatedly.
The headlights flash repeatedly.
The tail and marker lights flash repeatedly.
The LED lights up.
NOTE: Adjust as necessary by increasing the GBS setting to the next level if the alarm does not trigger during the functional verifications.
NOTE: If you do not disarm the system, the alarm will last 20 seconds. *It is not necessary to check the alarm duration.*
- 22. The horn stops sounding.
All the lights stop flashing and/or turn off.
The status monitor's LED turns off, but an immobilizer's LED remains on.

Part Number: 08586-3T850

Section I - Installation Preparation

Kit Contents

Item #	Quantity Req.	Description
1	1	Wire Harness
2	1	ECU Mounting Bracket
3	1	Microphone
4	1	GBS ECU

Hardware Bag Contents

Item #	Quantity Req.	Description
1	15	Medium Wire Ties
2	1	Large Foam Tape Strip (2pcs.)
3	1	Small Foam Tape Strip
4	1	Bolt
5	1	Panel Nut
6	1	Splicing Connector
7	1	Owner's Manual

Additional Items Required For Installation

Item #	Quantity Req.	Description

Conflicts

Note: May not be installed in vehicles with factory keyless entry.
--

Recommended Tools

Safety Tools	
Safety Glasses	
Safety Gloves	(Optional)
Vehicle Protection	Blankets, Part Boxes
Special Tools	
None	
Installation Tools	
Jeweler's Screwdriver	
Phillips Head Screwdriver	#2, screwdriver or tip
Flat Blade Screwdriver	Small
10 mm Socket	
Pneumatic/Electric Wrench	
10 mm Wrench	
Torque Wrench	
Nylon Panel Removal Tool	
Side Cutters	
Pliers	
Special Chemicals	
3M Prep Solvent-70	

General Applicability

2002 - Camry With factory TDS system, only
--

Recommended Sequence of Application

Item #	Accessory	

*Mandatory

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.
	CRITICAL PROCESS: Proceed with caution to ensure a quality installation. These points will be audited on a completed vehicle installation.
	GENERAL PROCESS: This highlights specific processes to ensure a quality installation. These points will be audited during the accessory installation.
	TOOLS & EQUIPMENT: This calls out the specific tools and equipment required for this process.

VEHICLE INSPECTION LIST

Notify your supervisor of any damage to the vehicle, inoperative equipment, or missing parts prior to starting the installation. Check one of the boxes for each item below.

FINAL INSPECTION

	OK	INOP.	N/A		OK	INOP.	N/A
Head Lights	☐	☐	☐	HVAC	☐	☐	☐
High Beams	☐	☐	☐	Power Locks	☐	☐	☐
Turn Signal Lights	☐	☐	☐	Power Windows	☐	☐	☐
Tail Lights	☐	☐	☐	Power Seats	☐	☐	☐
Stop Lights	☐	☐	☐	Power Mirrors	☐	☐	☐
Backup Lights	☐	☐	☐	Horn	☐	☐	☐
Hazard Lights	☐	☐	☐	Ft/Rr Wipers/Washer	☐	☐	☐
Daytime Running Lights	☐	☐	☐	Clock	☐	☐	☐
Fog Lights	☐	☐	☐	Gauges	☐	☐	☐
Marker Lights	☐	☐	☐	Starter	☐	☐	☐
Dome/Courtesy Lights	☐	☐	☐	Cig. Lighter/12V Acc.	☐	☐	☐
Key Sense Buzzer	☐	☐	☐	Audio	☐	☐	☐
Panel/Switch Illumination	☐	☐	☐	Power Antenna	☐	☐	☐
Trunk/Tailgate Light	☐	☐	☐	ABS Light**	☐	☐	☐
Cruise Control Light*	☐	☐	☐	Lamp Failure Sensor**	☐	☐	☐
Air Bag Warning Light **	☐	☐	☐	Track/Skid Control Light**	☐	☐	☐
Glove Box Light	☐	☐	☐	Power Sliding Door	☐	☐	☐
Accessory Controls/Illumination	☐	☐	☐				

* Light must illuminate when ignition switch is turned to the "ON" position to indicate it is "ON".

** If the warning light remains "ON", it may indicate a system malfunction.

Section II - Installation Procedure

A. Vehicle Disassembly

1. Remove the negative battery cable.
(Fig. A1)



- i. Protect the fender before starting.
- ii. For automatic equipped vehicles, place the shifter in low gear and set the parking break prior to disconnecting the battery.



- iii. Be careful not to touch the positive terminal.

2. Remove the driver's step cover.
(Fig. A2)



- i. Cover the floor and seats before starting.



- ii. Do not scratch the cover.

3. Remove the driver's cowl cover.
(Fig. A3)

- i. Remove the nut securing the cover.
- ii. Do not scratch the cover.



4. Remove the hood release latch.
(Fig. A4)

- i. Remove the cable from the latch as shown.



- ii. Do not scratch the lower dash cover.

5. Remove the coin box from the lower dash cover. (Fig. A4)

- i. Remove the one screw securing the lower dash cover.



- ii. Do not scratch the lower dash cover.

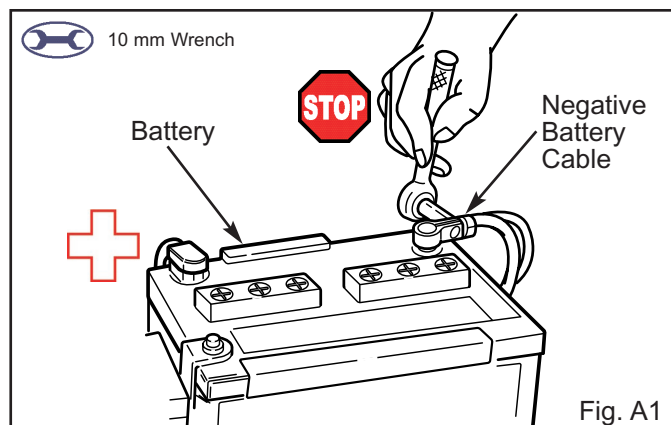


Fig. A1

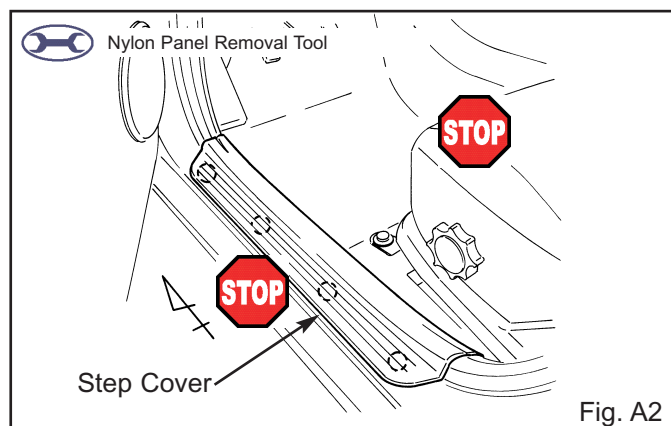


Fig. A2

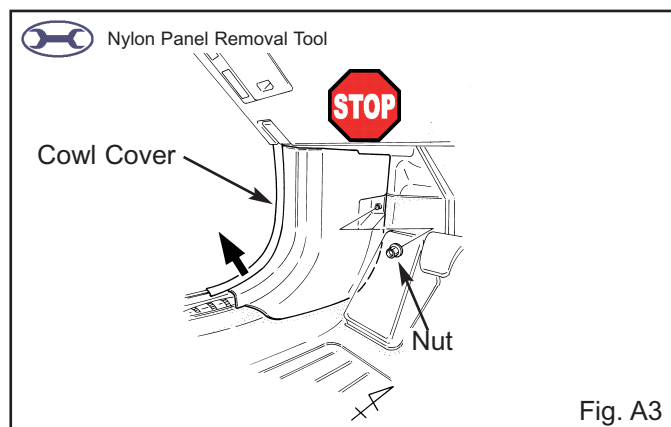


Fig. A3

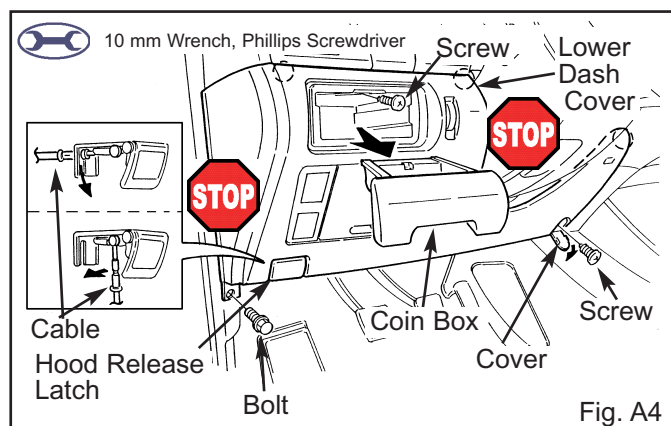
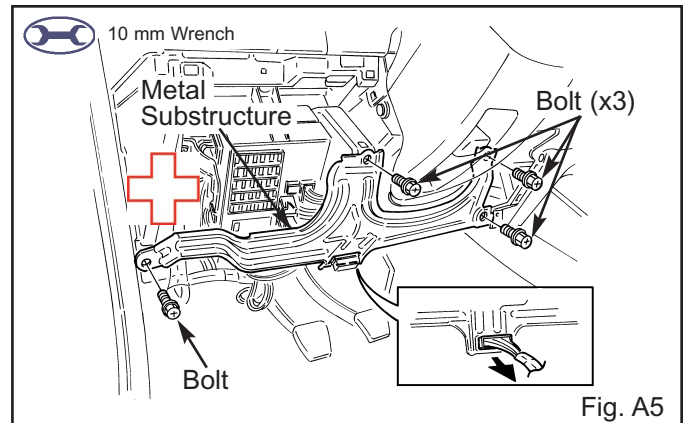


Fig. A4

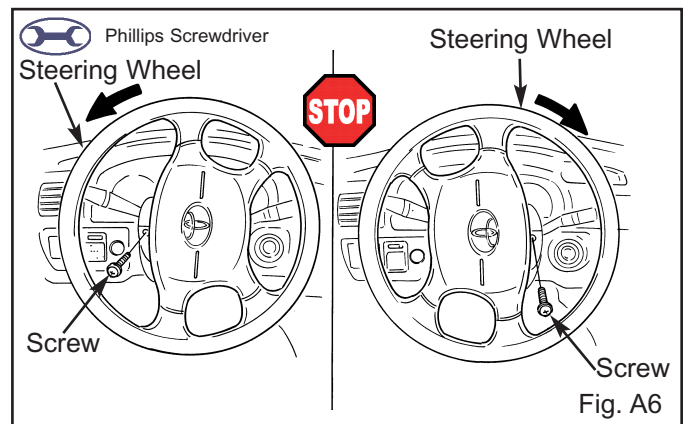
6. Remove the lower dash cover. (Fig A4)

- i. Open the screw cover of the lower dash cover.
- ii. Remove the one bolt and one screw securing the lower dash cover.
- iii. Disconnect the rheostat connector and temperature sensor (connector and aspirator hose) from the lower dash cover if equipped.



7. Remove the metal substructure. (Fig. A5)

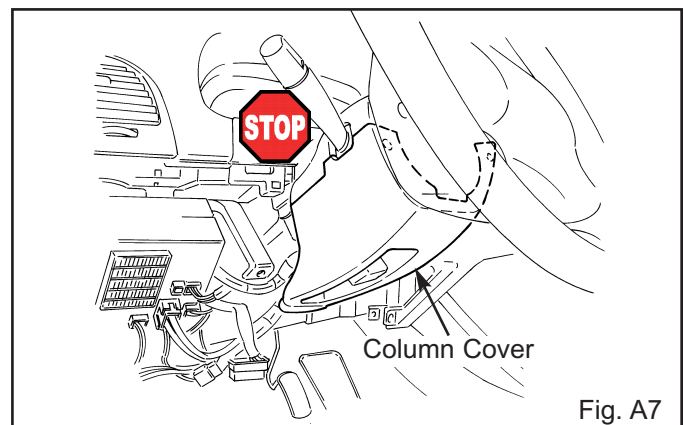
- i. Remove the four bolts securing the metal substructure.
- ii. Disconnect the diagnostic connector from the metal substructure.
- iii. Be careful to not get cut by the sharp metal edges.



8. Remove the two screws, located behind the steering wheel, securing the bottom steering column cover. (Fig. A6)



- i. Do not scratch the cover.
- ii. Insert the key into the ignition switch and turn it to ON, then turn the steering wheel left or right to gain access to the screws.



9. Remove the lower steering column cover. (Fig. A7)

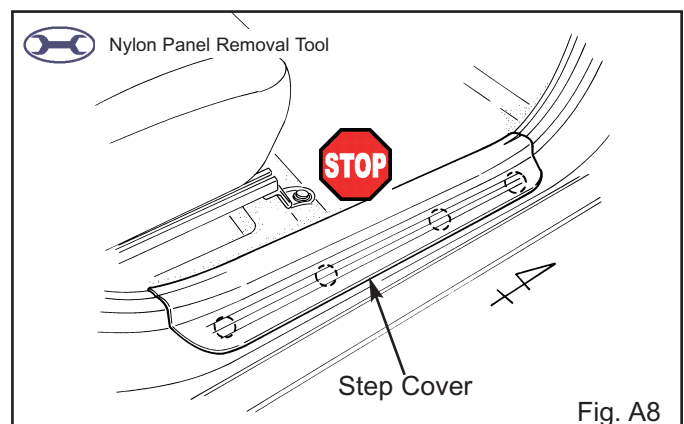


- i. Do not scratch the cover.

10. Remove the passenger's step cover. (Fig. A8)



- i. Cover the floor and seats before starting.
- ii. Do not scratch the cover.



11. Remove the passenger's cowl cover.
(Fig. A9)

i. Remove the nut securing the cowl cover.



ii. Do not scratch the cover.

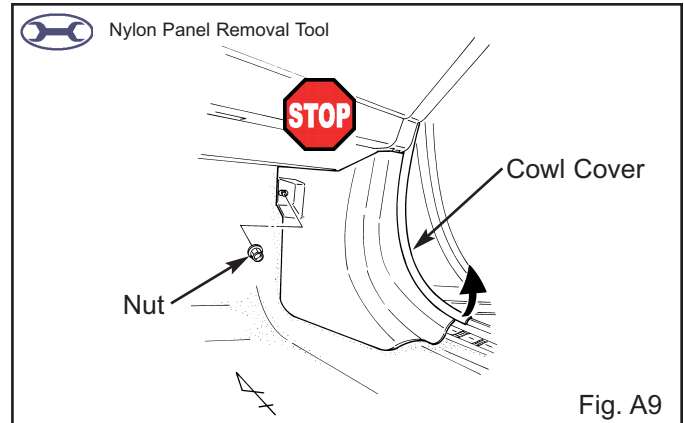


Fig. A9

12. Remove the under-dash cover.
(Fig. A10)



i. Do not scratch the glove box assembly.

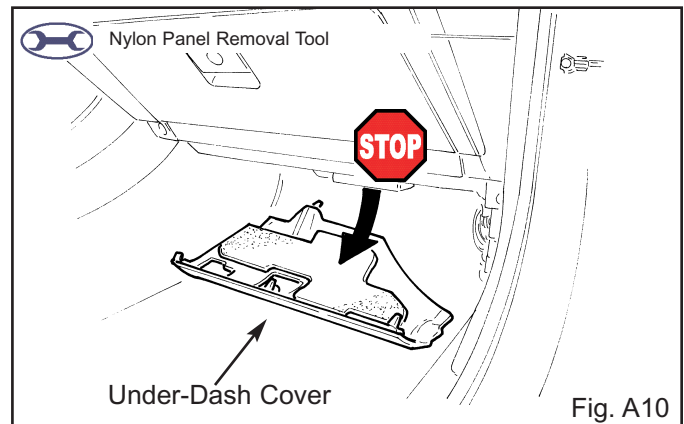


Fig. A10

13. Remove the glove box assembly.
(Fig. A11)

i. Remove the three screws securing the glove box assembly.



ii. Do not scratch the glove box assembly.

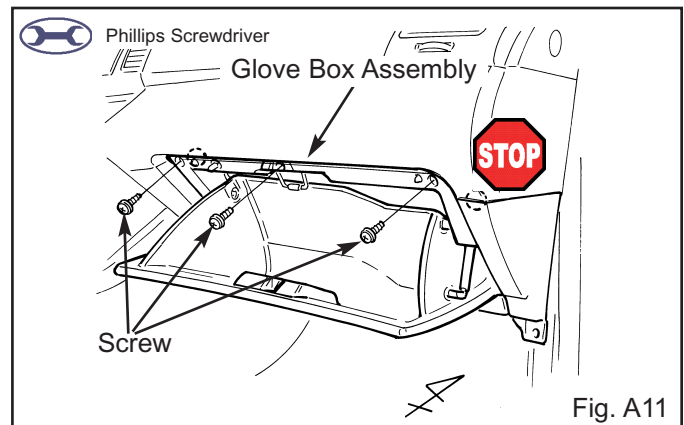


Fig. A11

14. Close the glove box assembly latch and then remove the remaining one screw and one bolt. (Fig. A12)

i. Remove the cover from the glove box assembly.



ii. Do not scratch the glove box assembly.

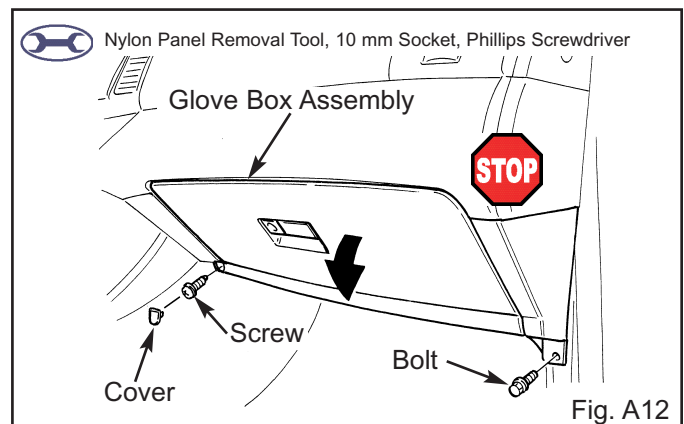
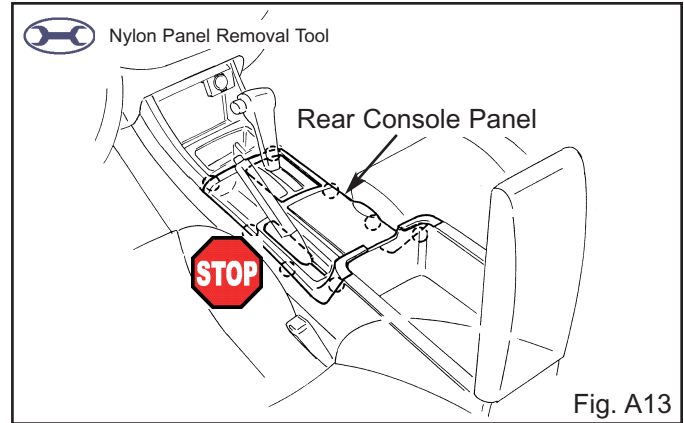


Fig. A12

15. For all vehicles, remove the rear console panel. (Fig. A13)



- i. Do not scratch the panel.

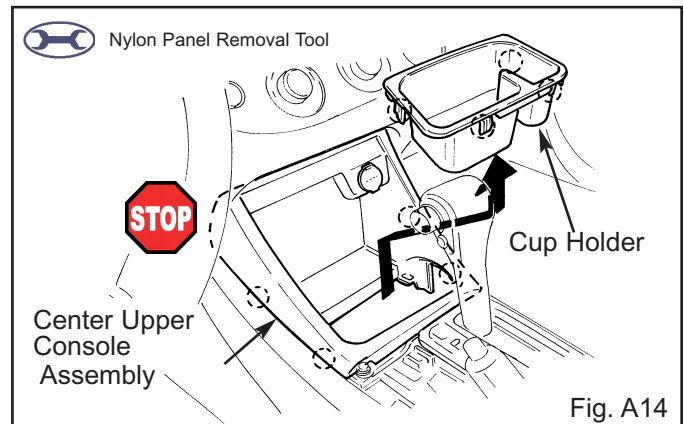


16. Remove the upper console assembly. (Fig. A14)

- i. Remove the cup holder from the front console panel.
ii. Disconnect the power outlet connector.

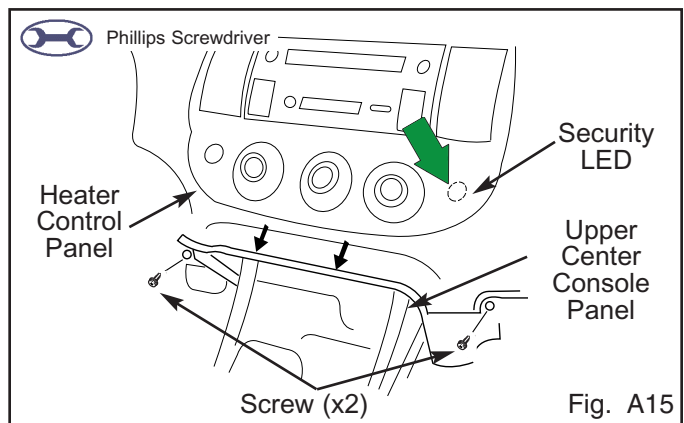


- iii. Do not scratch the cover.



17. Loosen the top of the upper center console panel. (Fig. A15)

- i. Remove the two screws securing the panel to the dash.
ii. Pull the panel down approximately 3/8 of an inch. Do not remove the panel.



18. Identify whether the vehicle has an immobilizer system. (Fig. A15)

- i. Look for the security LED on the heater control panel; if one is found, the vehicle has an immobilizer system.

B. Piezo Buzzer Installation

- ➔ 1. Wrap the Piezo Buzzer to the vehicle's harness with one large strip of foam tape. (Fig. B1)
 -  i. Do not cover the opening of the Buzzer with the foam tape.
2. Secure the Piezo Buzzer to the vehicle's harness with one large wire tie. (Fig. B1)
 - i. Clip the wire tie.
3. Cut off the tip of the nipple on the grommet. (Fig. B2)
 -  i. Do not cut any wires.
- ➔ 4. Secure the Piezo Buzzer's wires and the cable wire routing tool with electrical tape. (Fig B3)

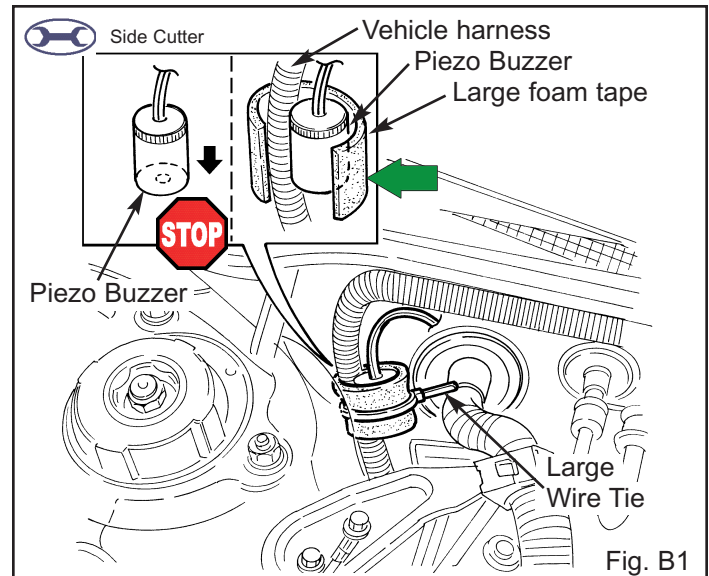


Fig. B1

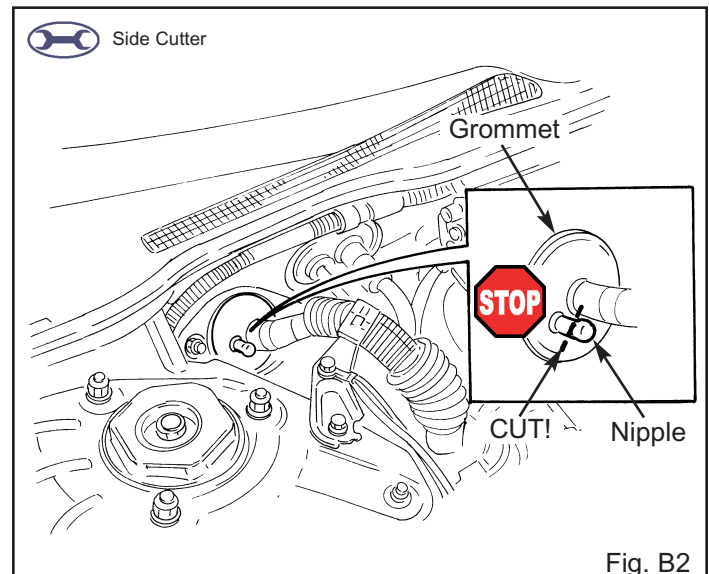


Fig. B2

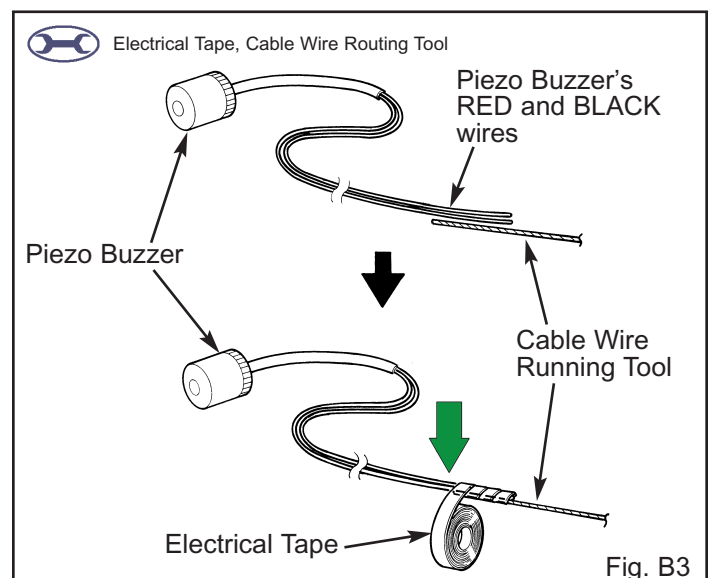
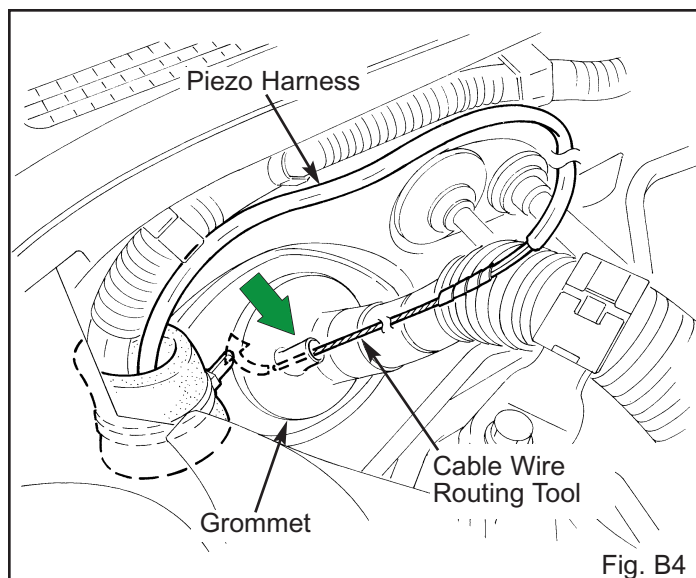


Fig. B3

5. Push the entire length of the cable wire routing tool and Piezo Buzzer wires through the grommet's nipple into the passenger compartment. (Fig B4)



- i. From inside the passenger compartment, pull the wires tightly through the grommet.

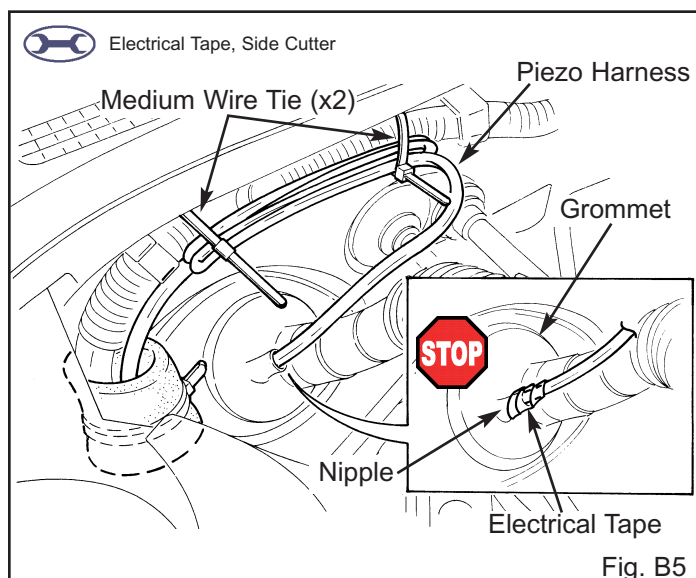


6. Wrap the Piezo Buzzer's harness and the nipple with the electrical tape. (Fig. B5)



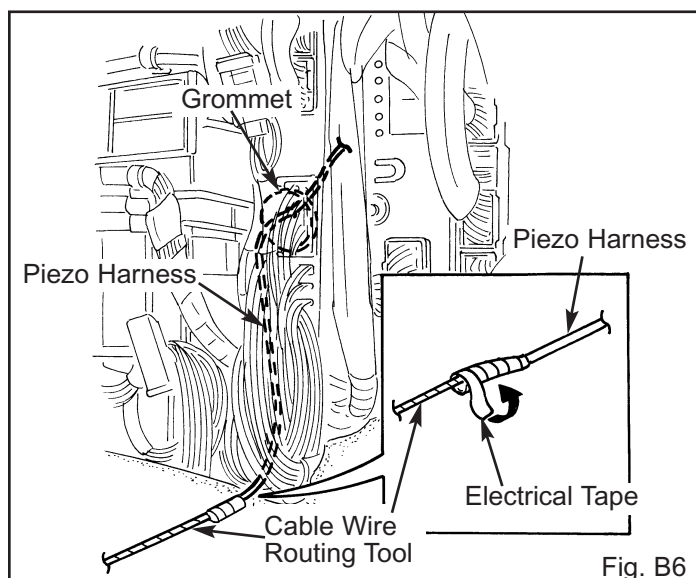
7. Bundle the excess Piezo Buzzer's harness, then secure it to the vehicle's harness with two medium wire ties. (Fig. B5)

- i. Clip the wire ties.



8. Route the cable wire routing tool and Piezo Buzzer wires to the passenger compartment. (Fig. B6)

9. Remove the electrical tape and cable wire routing tool. (Fig. B6)



- ➔ 10. Route the Piezo Buzzer's wires up toward the dash, then secure it to the vehicle's harness with four medium wire ties. (Fig. B7)



- i. Do not cut the Piezo Buzzer wires until instructed to do so.
- ii. Clip the wire ties.

C. V3 Wire Harness Installation

1. Locate and disconnect the 12P and 22P connectors from the left side of the Instrument Panel J/B. (Fig. C1)
 - i. Using a small nylon removal tool or the tape covered tip of a flat blade screwdriver, press in then pry the lock tabs of the 22P and 12P connectors away from the connector block.
 - ii. Do not pull on the wires; pull on the connector.
2. Plug in the V3 harness' white 22P connector between the vehicle harness' white 12P connector and the Instrument Panel J/B. (Fig. C2)



- i. Verify the connectors are plugged in securely.

3. Plug in the V3 harness' white 12P connector between the vehicle harness' white 12P connector and the Instrument Panel J/B. (Fig. C2)



- i. Verify the connectors are plugged in securely.



4. Wrap the white 22P connectors with one large strip of foam tape. (Fig. C2)



5. Wrap the white 12P connectors with one large strip of foam tape. (Fig. C2)

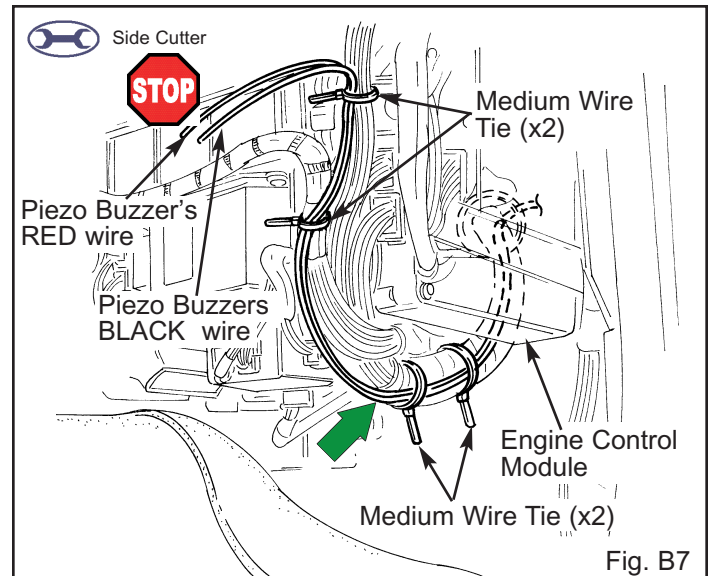


Fig. B7

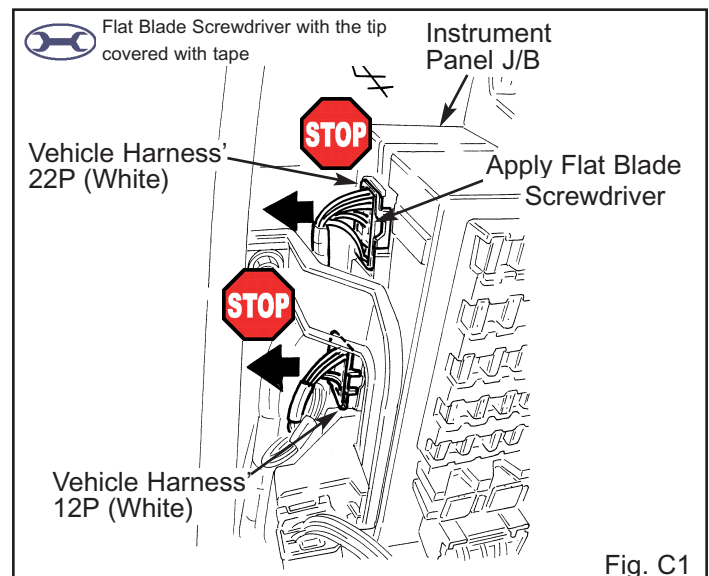


Fig. C1

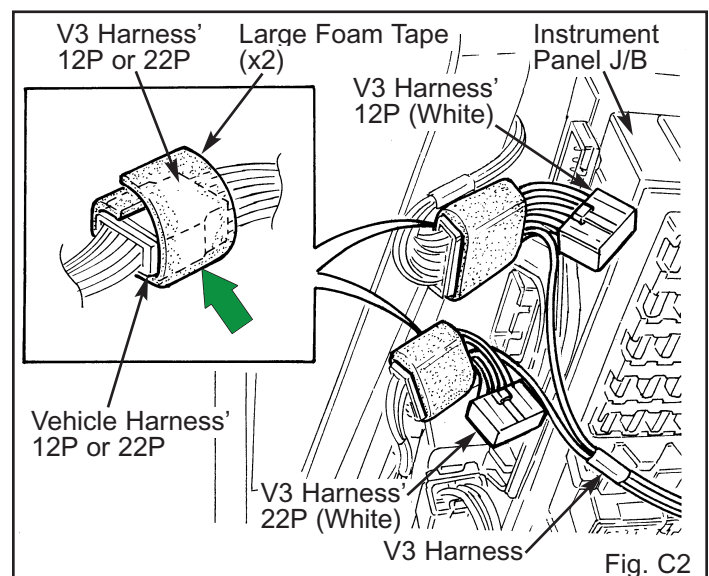


Fig. C2

6. Plug in the V3 harness' white 22P connector to the Instrument Panel J/B. (Fig. C3)



- i. Verify the connector is plugged in securely.

7. Plug in the V3 harness' white 12P connector to the Instrument Panel J/B. (Fig. C3)



- i. Verify the connector is plugged in securely.



8. Attach one small strip of foam tape to the edge of the metal bracket as shown. (Fig. C4)

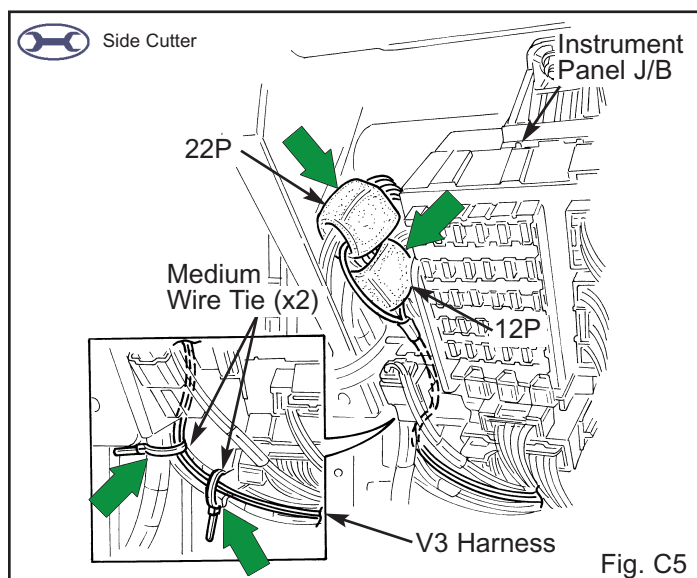
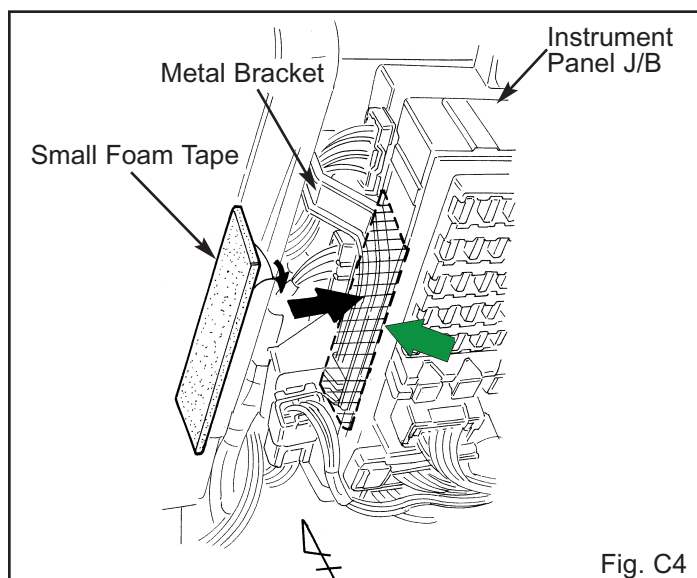
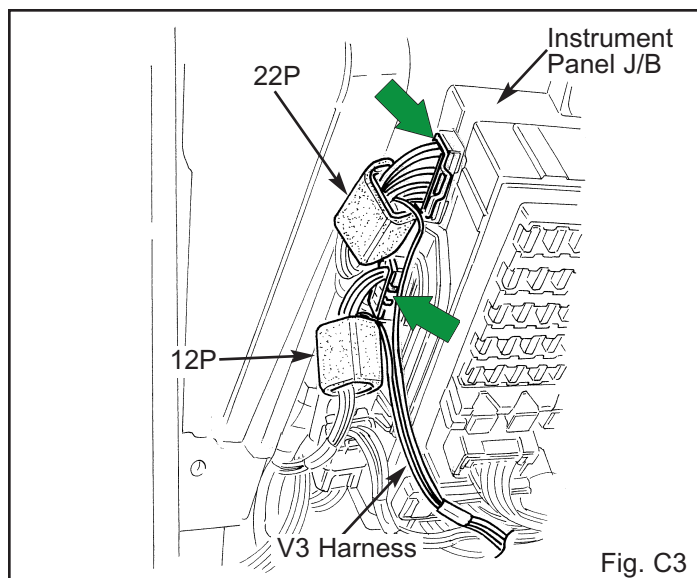


9. Arrange the 12P and 22P connectors between the Instrument Panel J/B and the Dash Panel. (Fig. C5)



10. Route the V3 harness as shown, then secure it to the vehicle's harness with two medium wire ties. (Fig. C5)

- i. Clip the wire ties.



- ➔ 11. Locate and release the lock of the white 24P connector from the Instrument Panel J/B. (Fig. C6)



- i. Do not pull on the wires; pull on the connector.

12. Disconnect the white 24P connector. (Fig. C6)



- i. Do not pull on the wires; pull on the connector.

13. Using a small screwdriver, lift up and slide the black lock cover from the 24P connector. (Fig. C7)



- i. Do not damage the connector.

14. Using a small Jeweler's Screwdriver or the like, lift up the terminal retainer on the 24P connector. (Fig C7)



- i. Do not pull out the retainer.



- ii. Do not damage the connector.

15. Locate the GREEN/BLACK wire in the bottom row, third space from the left. Using a pick, release and pull out the terminal for the GREEN/BLACK wire. (Fig. C8)



- i. Do not damage the terminal.



- ii. Do not damage the connector.

16. Locate the GREEN wire in the top row, ten spaces from the left. Using a pick, release and pull out the terminal for the GREEN wire. (Fig. C8)



- i. Do not damage the terminal.



- ii. Do not damage the connector.

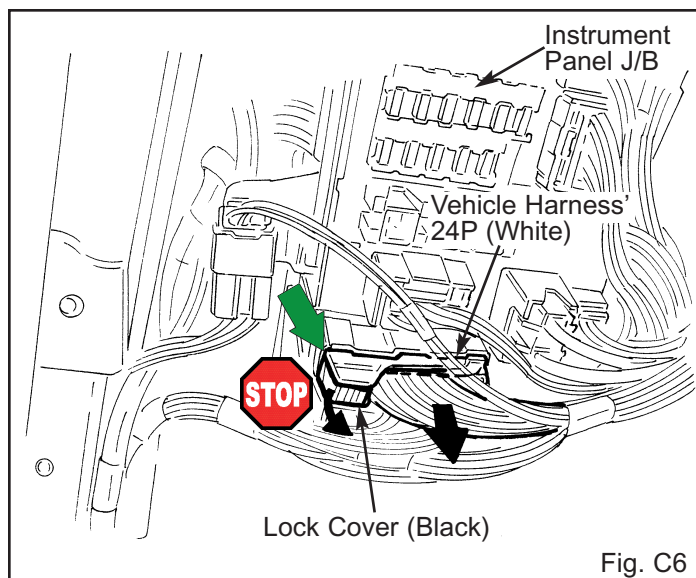


Fig. C6

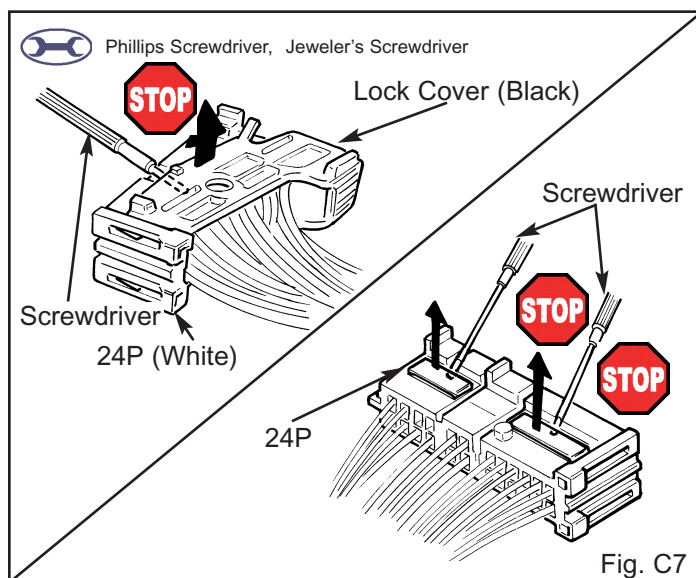


Fig. C7

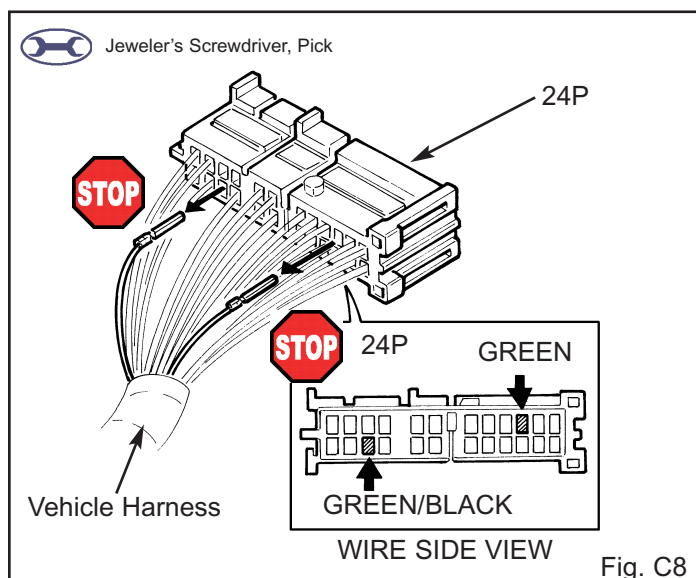


Fig. C8

17. Insert the terminal at end of the V3 harness' GREEN/BLACK wire into the bottom row, third spaces from the left of the vehicle harness' 24P connector. (Fig. C9)



- i. Verify the correct opening is chosen.



- ii. Verify the terminal is inserted and seated properly.

18. Insert the terminal at the end of the V3 harness' GREEN wire into the top row, ten spaces from the left of the vehicle harness' 24P connector. (Fig. C9)



- i. Verify the correct opening is chosen.



- ii. Verify the terminal is inserted and seated properly.

19. Close the retainer.



20. Disconnect the empty 2P female connector plugged into the V3 harness' 2P male connector. (Fig. C10)

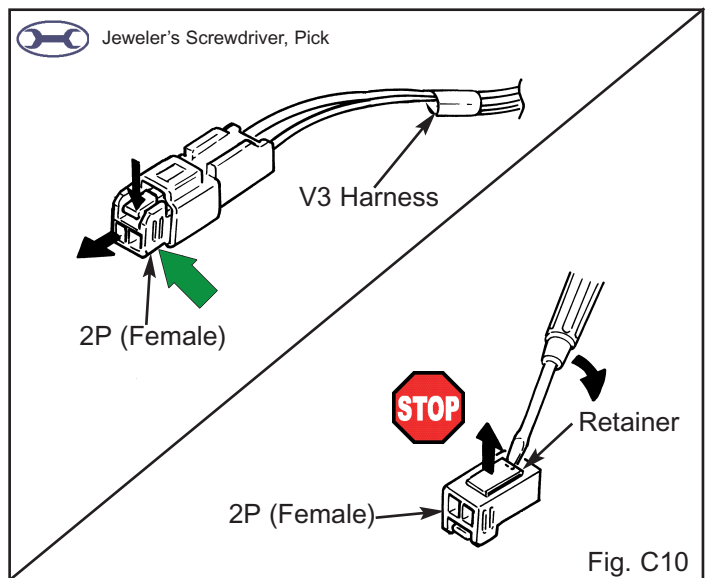
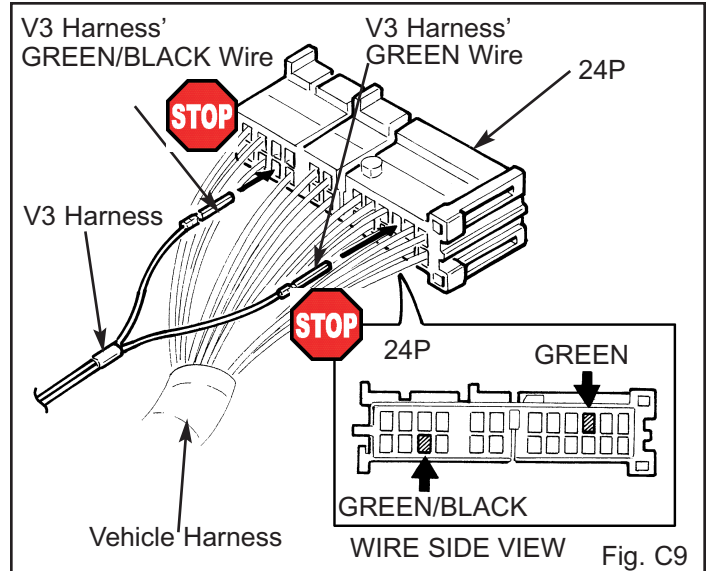
21. Using a small Jeweler's Screwdriver or the like, lift up the terminal retainer on the back of the empty connector. (Fig. C10)



- i. Do not pull out the retainer.



- ii. Do not damage the connector.



22. Insert the terminal at the end of the vehicle harness' GREEN/BLACK wire into the left side opening of the empty 2P connector. (Fig. C11)

23. Insert the terminal at the end of the vehicle harness' GREEN wire into the right side opening of the empty 2P connector. (Fig. C11)



i. Turn the connector so the *wire* faces you and the tab is on top.



ii. Verify the correct opening is chosen.



iii. Verify the terminal is inserted and seated properly.

24. Close the retainer of the 2P connector. (Fig. C11)

25. Refit the lock cover of the 24P connector. (Fig. C12)



i. Do not damage the connector.

26. Plug in the V3 harness' white 2P male connector into the V3 harness' white 2P female connector. (Fig. C13)



i. Verify the connectors are plugged in securely.

27. Secure the white 2P connector to the vehicle's harness with one medium wire tie. (Fig. C13)

i. Clip the wire tie.



28. Route the V3 harness as shown, then secure it to the vehicle's harness with one medium wire tie. (Fig. C13)

i. Clip the wire tie.

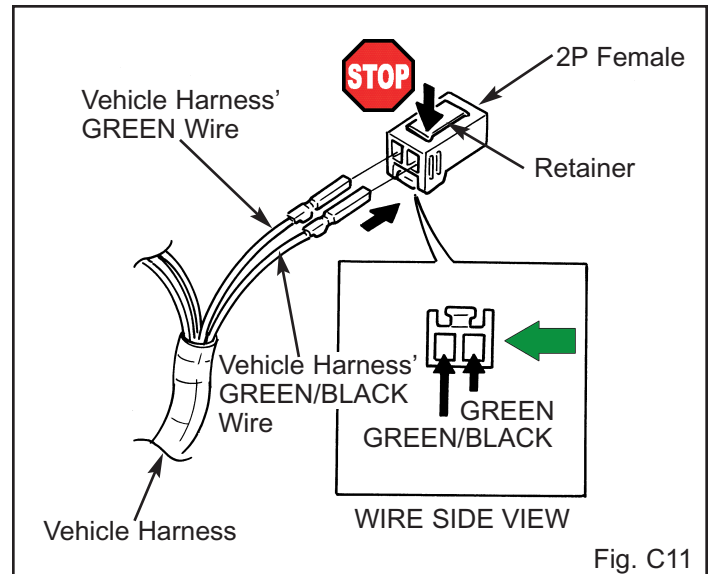


Fig. C11

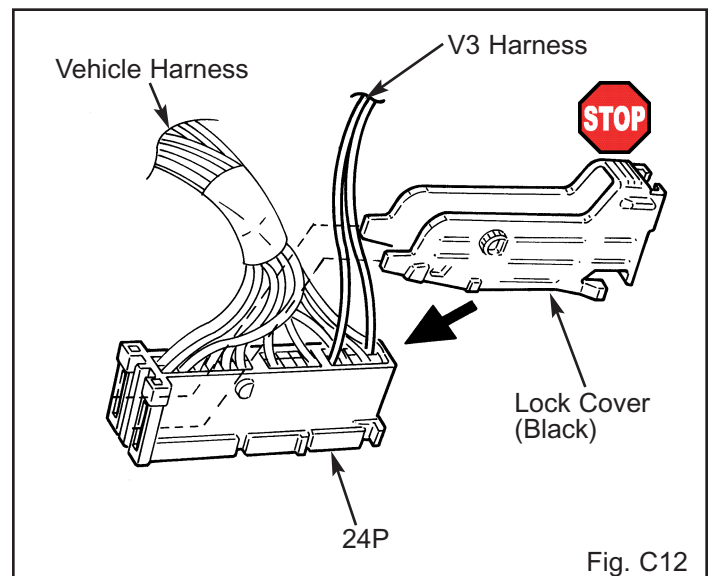


Fig. C12

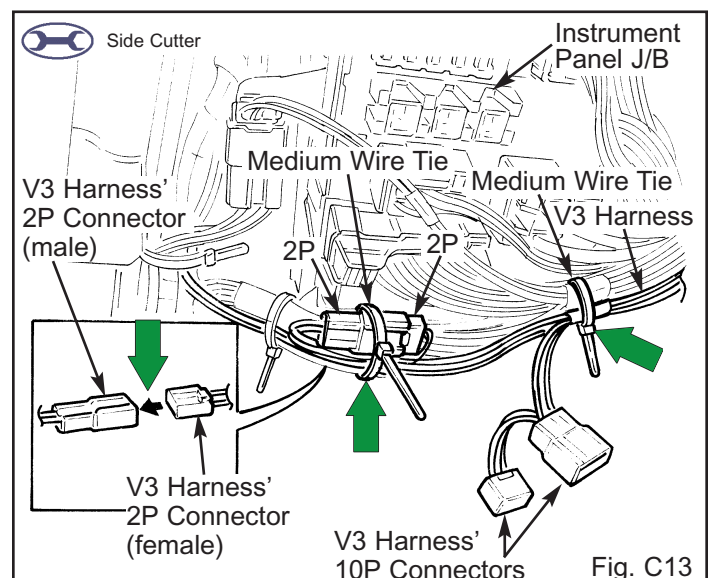


Fig. C13

29. Locate and disconnect the gray 10P connector from the connector block near the Instrument Panel J/B.
(Fig. C14)



- i. Do not pull on the wires; pull on the connector.

30. Plug in the V3 harness' gray 10P connector between the vehicle harness' gray 10P connector and the connector block. (Fig. C15)



- i. Verify the connectors are plugged in securely.
- ii. Secure the V3 harness to the vehicle harness with one medium wire tie.
- iii. Clip the wire tie.

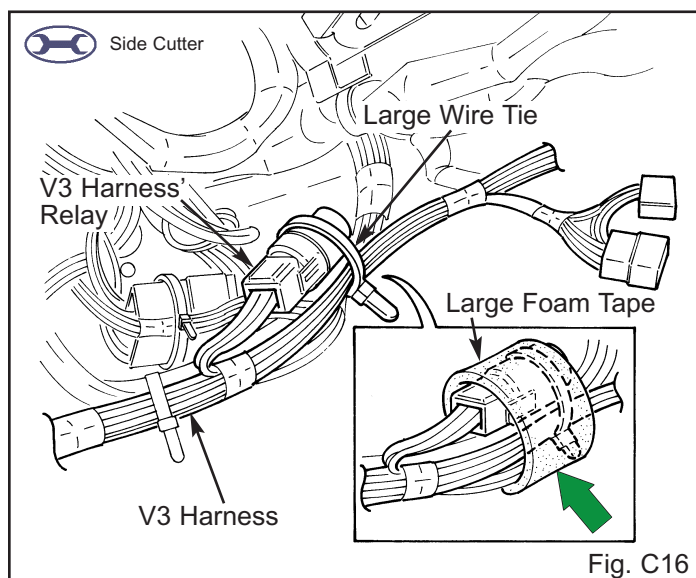
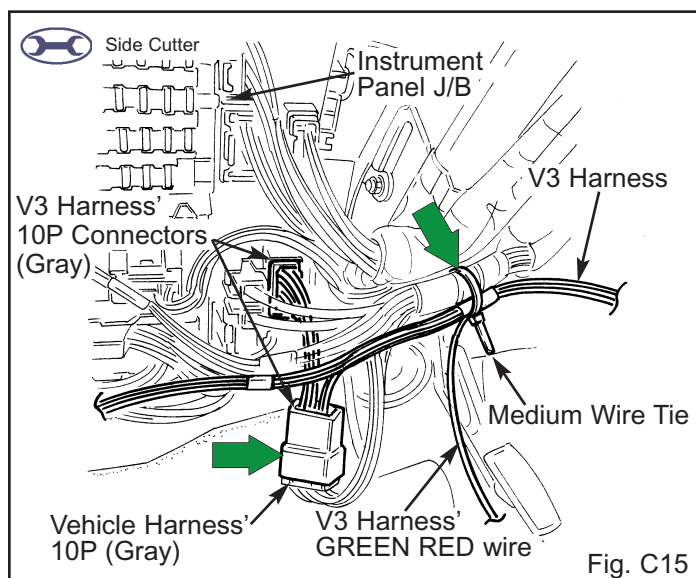
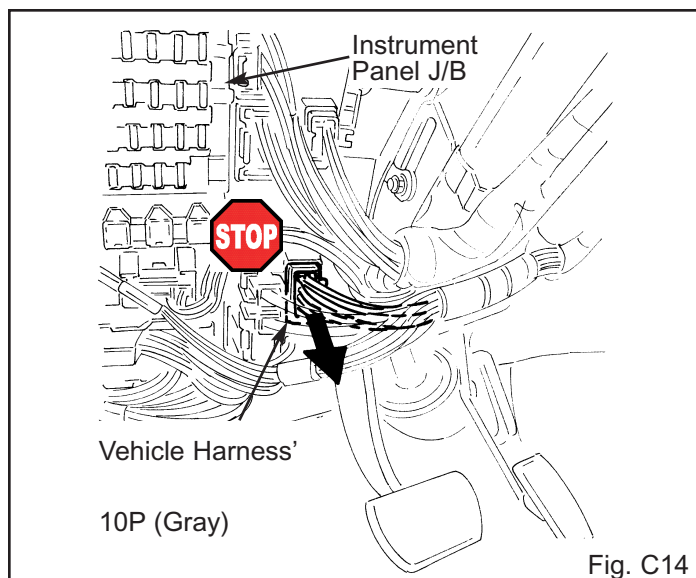


31. Secure the V3 harness' relay to the V3 harness with one large wire tie.
(Fig. C16)

- i. Clip the wire tie.



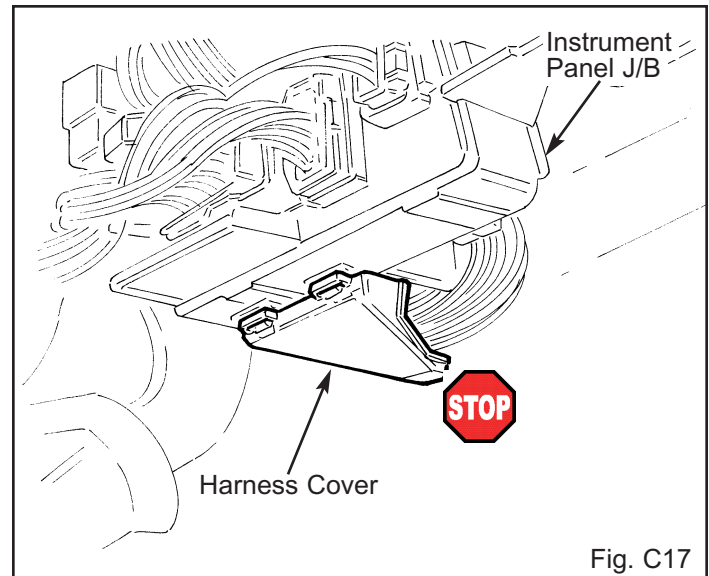
32. Wrap the relay with one large strip of foam tape. (Fig. C16)



33. Remove the harness cover from under the Instrument Panel J/B. (Fig. C17)



- i. Do not damage the cover.



34. Locate the vehicle harness' GREEN/RED wire from the connector block, and attach the V3 harness' GREEN/RED wire with one splicing connector. (Fig. C18)



- i. Verify the correct wire is chosen for splicing.



- ii. Make sure the splicing connector is applied properly.



35. Secure the V3 harness' GREEN/RED wire to the vehicle harness with one medium wire tie. (Fig. C18)

- i. Clip the wire tie.



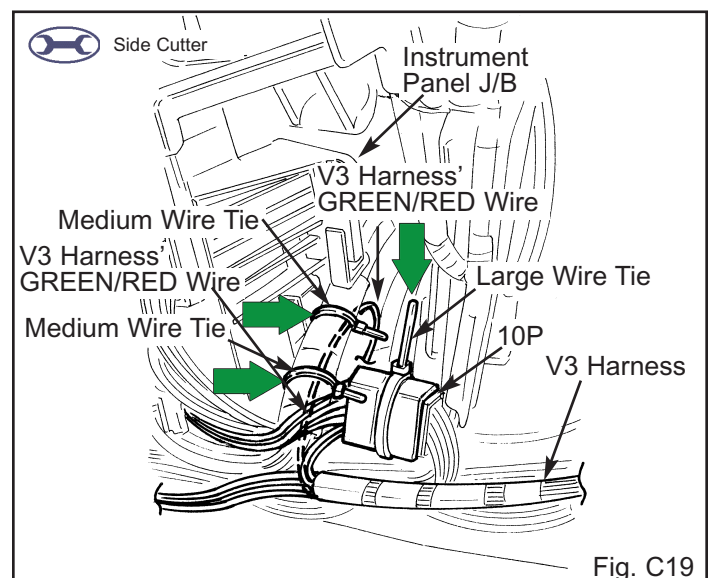
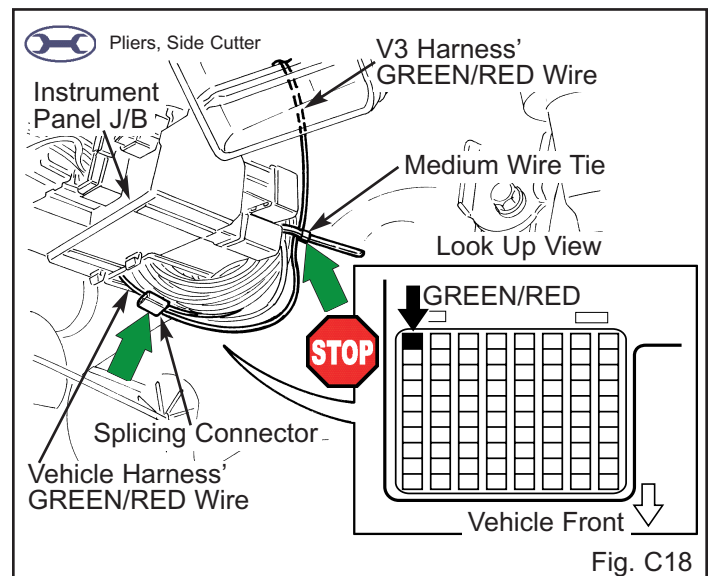
36. Secure the V3 harness' GREEN/RED WIRE to the vehicle's harness with two medium wire ties. (Fig. C19)

- i. Clip the wire ties.



37. Secure the 10P connectors to the vehicle's harness with one large wire tie. (Fig. C19)

- i. Clip the wire tie.



38. Locate and disconnect the white 8P connector from the ignition switch. (Fig. C20)



- i. Do not pull on the wires; pull on the connector.

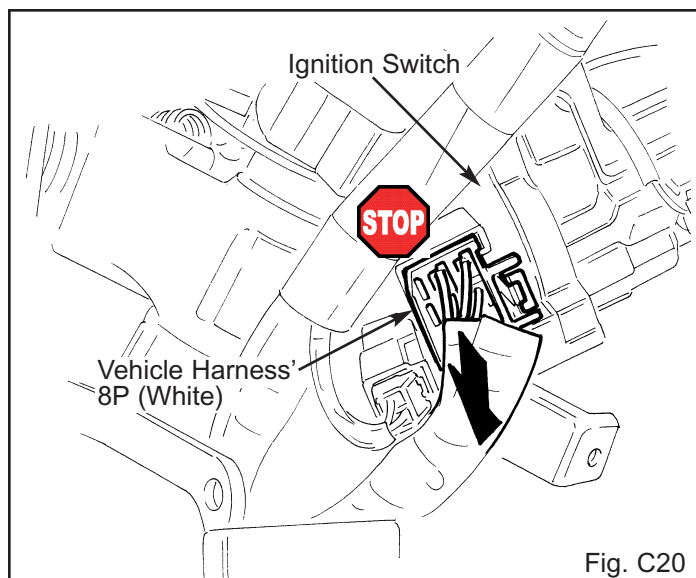


Fig. C20

39. Plug in the V3 harness' white 8P connector between the vehicle harness' white 8P connector and the ignition switch. (Fig. C21)



- i. Verify the connectors are plugged in securely.

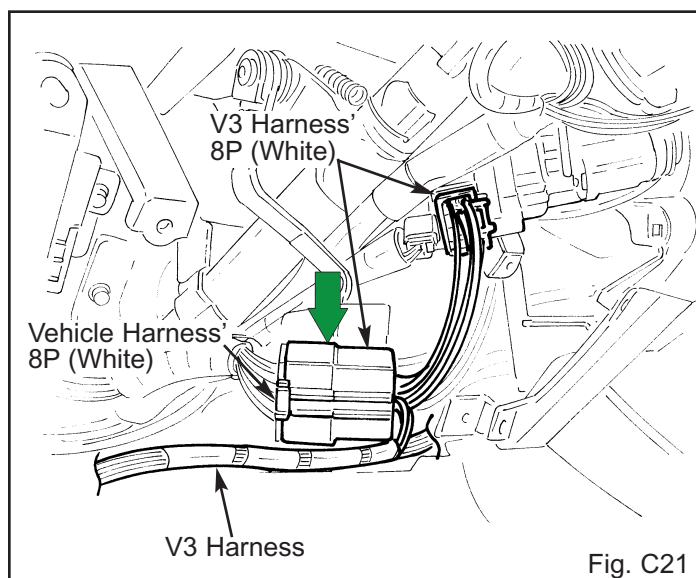


Fig. C21



40. Secure the 8P connector and V3 harness to the vehicle's harness with one large wire tie. (Fig. C22)

- i. Place the right side of the 8P connector against the vehicle harness.
ii. Clip the wire tie.

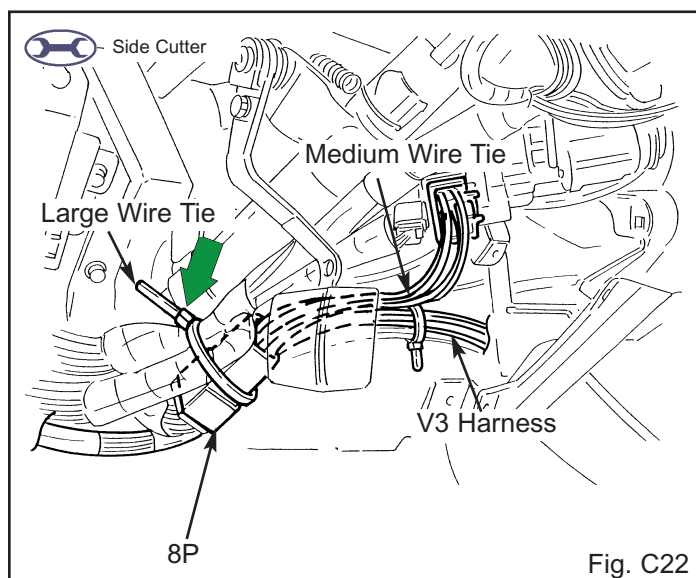


Fig. C22

- ➔ 41. Route the V3 harness toward the connector block area, then secure it to the vehicle harness with one medium wire tie. (Fig. C23)

i. Clip the wire tie.

- ➔ 42. Route the V3 harness toward the center console area, then secure it to the vehicle harness with two medium wire ties. (Fig. C24)

i. Clip the wire ties.

FOR VEHICLES WITH
IMMOBILIZER SYSTEM ONLY.
(Steps 43-45)

- ➔ 43. Bundle the V3 harness' YELLOW and WHITE/BLACK wires, then secure it to the vehicle harness and V3 harness with one medium wire tie. (Fig. C25)



i. Do not perform this step if the vehicle does not have an immobilizer system.

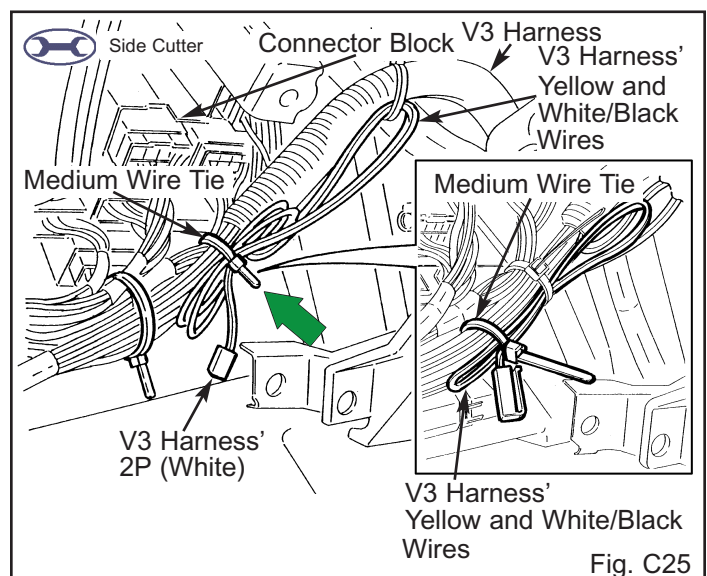
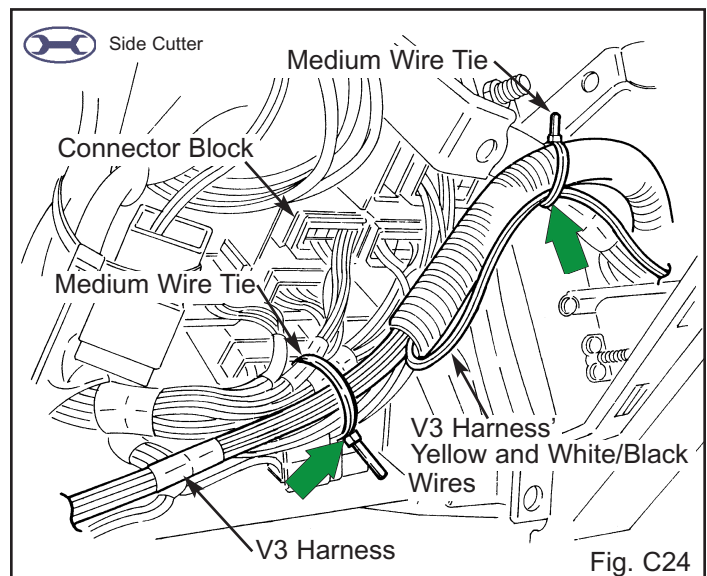
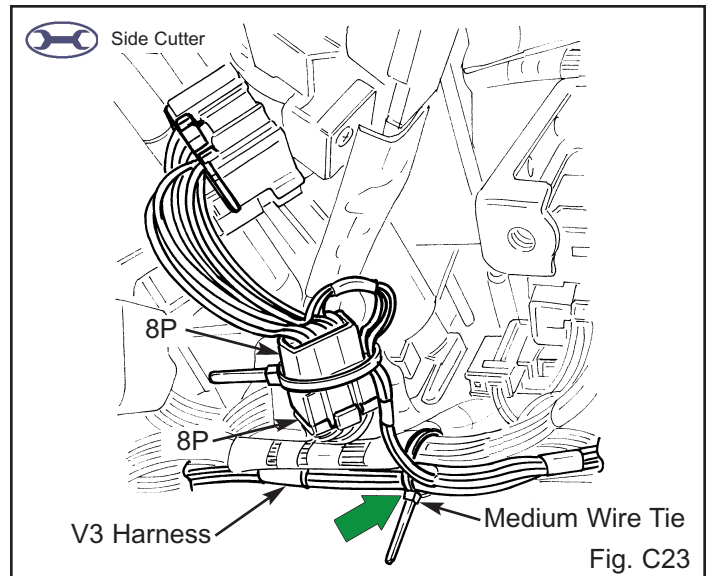
ii. Clip the wire tie.

- ➔ 44. Secure the V3 harness' status monitor 2P connector to the V3 harness with one medium wire tie. (Fig. C25)



i. Do not perform this step if the vehicle does not have an immobiliser system.

ii. Clip the wire tie.



45. Route the V3 harness behind the heater control panel unit, through the passenger's side of the vehicle. (Fig. C26)



i. Do not perform this step if the vehicle does not have an immobiliser system.



ii. Route the V3 harness away from any moving parts such as levers, etc.

FOR VEHICLES WITHOUT
IMMOBILIZER SYSTEM ONLY.
(Steps 46-47)



46. Route the yellow and white/black wires of the V3 harness toward the console area as shown, then secure it to the vehicle harness with two medium wire ties. (Fig. C27)

i. Clip the wire ties.

47. Route the V3 harness behind the heater control panel unit, through the passenger side of the vehicle. (Fig. C27)



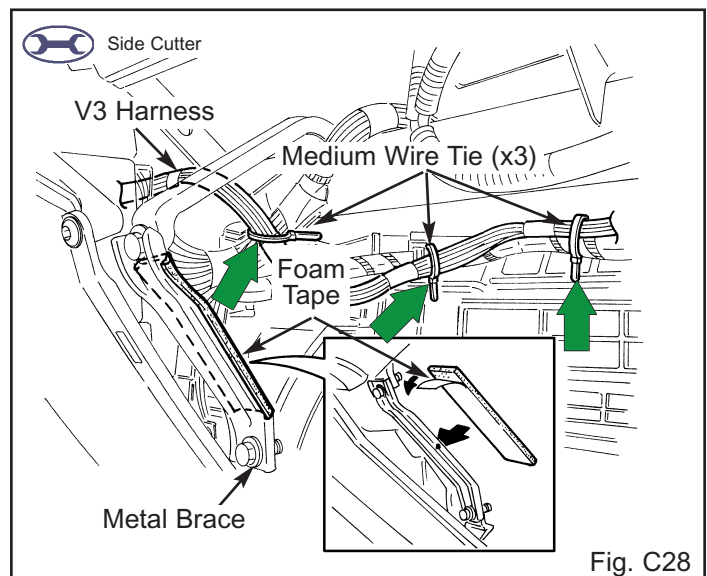
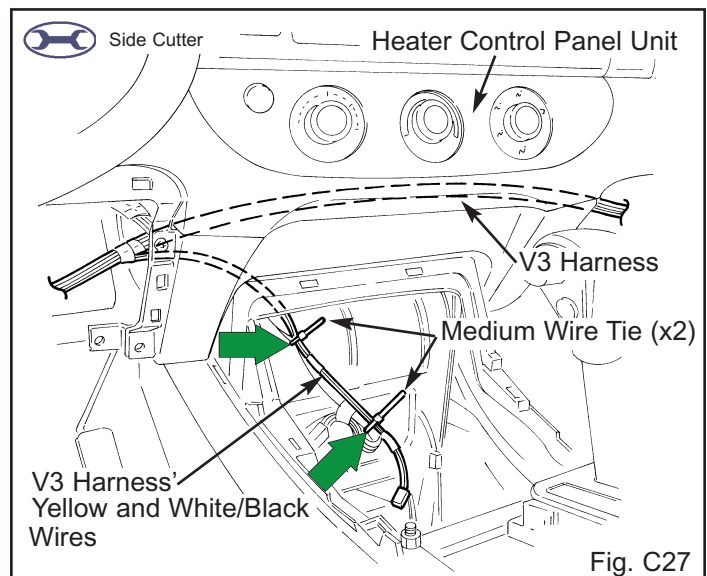
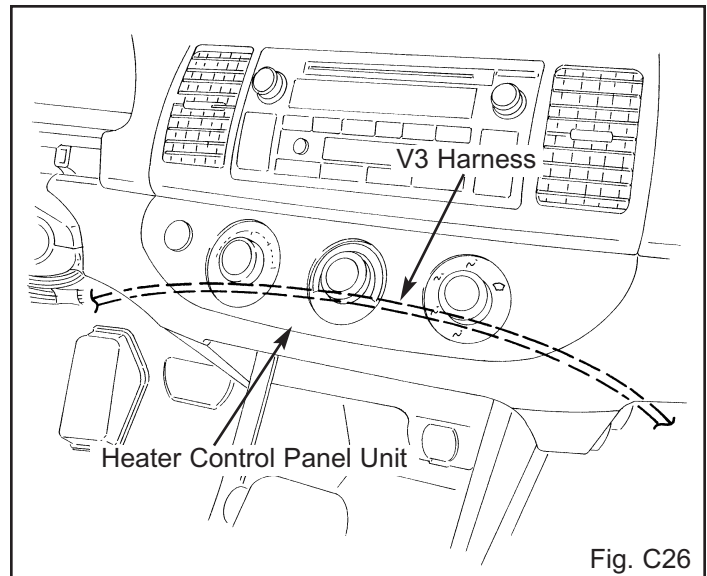
i. Route the V3 harness away from any moving parts such as levers, etc.



48. Route the V3 harness toward the glove box area, then secure it to the vehicle harness with three medium wire ties. (Fig. C28)

i. Clip the wire ties.

49. Apply one large piece of foam tape to the metal brace as shown. (Fig. C28)



➔ 50. Route the V3 harness through the glove box area, then route the V3 harness ECU connectors behind the reinforcement as shown. (Fig. C29)

➔ 51. Secure the V3 harness to the vehicle harness with one medium wire tie. (Fig. C29)

- i. Clip the wire tie.

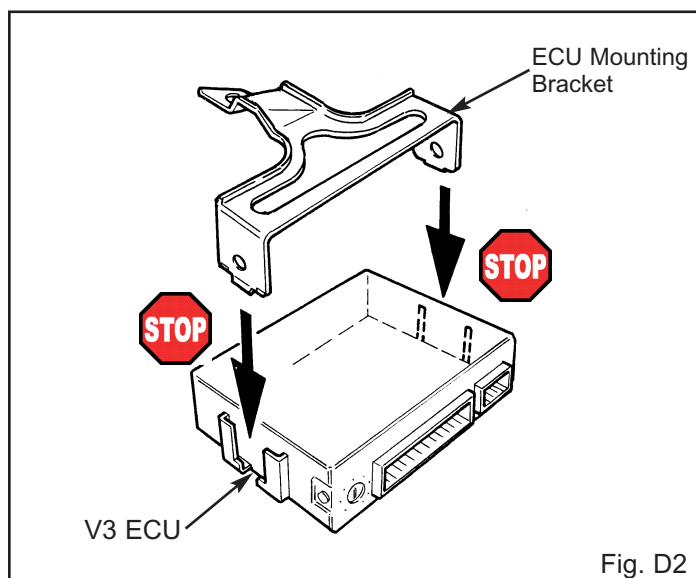
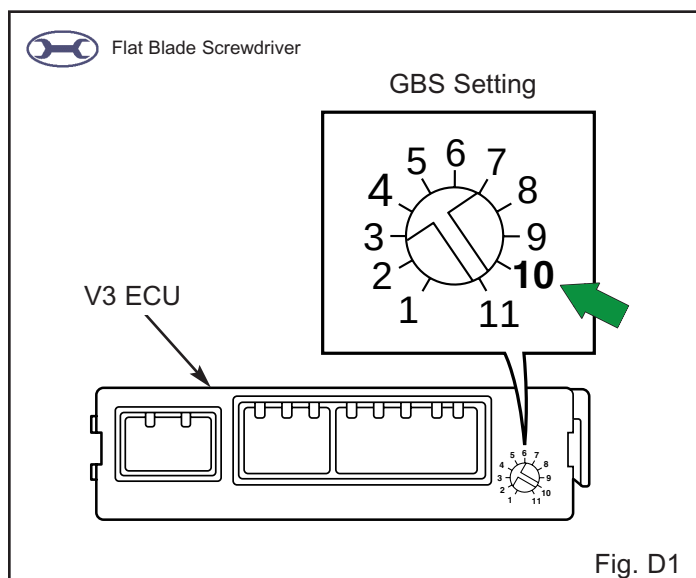
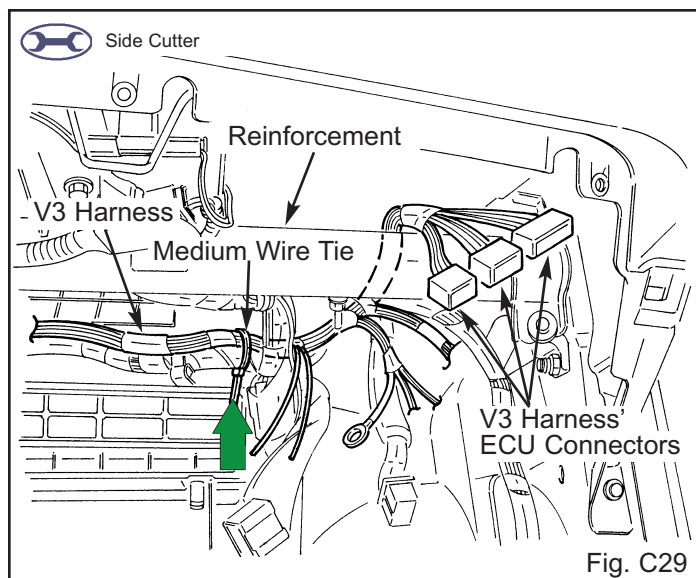
D. V3 ECU Preparation and Installation

➔ 1. Turn the adjustment screw on the V3 ECU to the "10" position. (Fig. D1)

2. Insert the ECU mounting bracket into the indicated bracket slot on the V3 ECU. (Fig. D2)



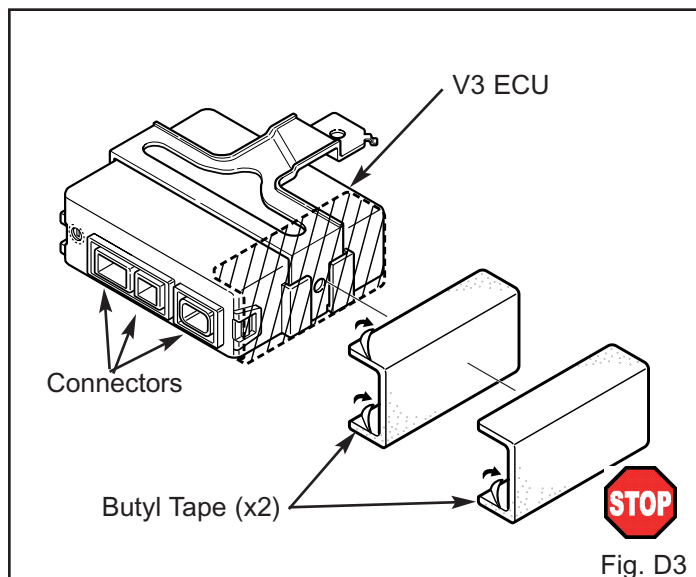
- i. Insert the mounting bracket into the correct slot; you have only one chance to install it properly.



3. Using two pieces of butyl tape, cover the edge of the V3 ECU and ECU mounting bracket. (Fig. D3)



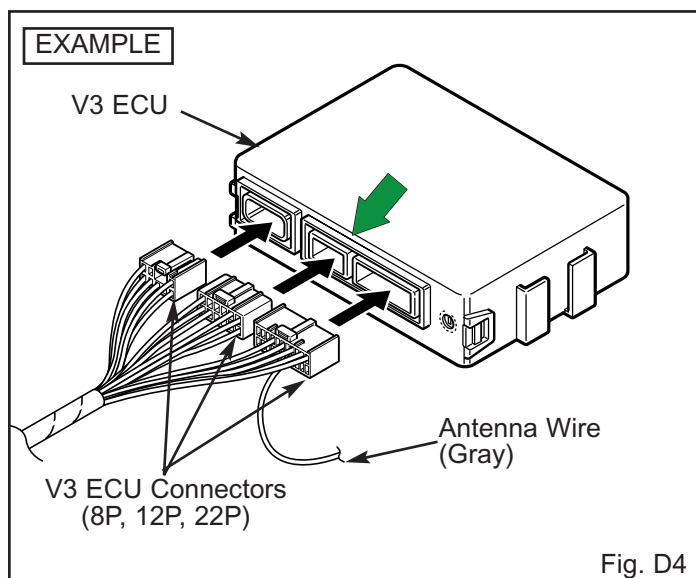
- i. Do not remove the protective sheet from the top of the butyl tape.



4. Connect the V3 harness' ECU connectors to the V3 ECU. (Fig. D4)



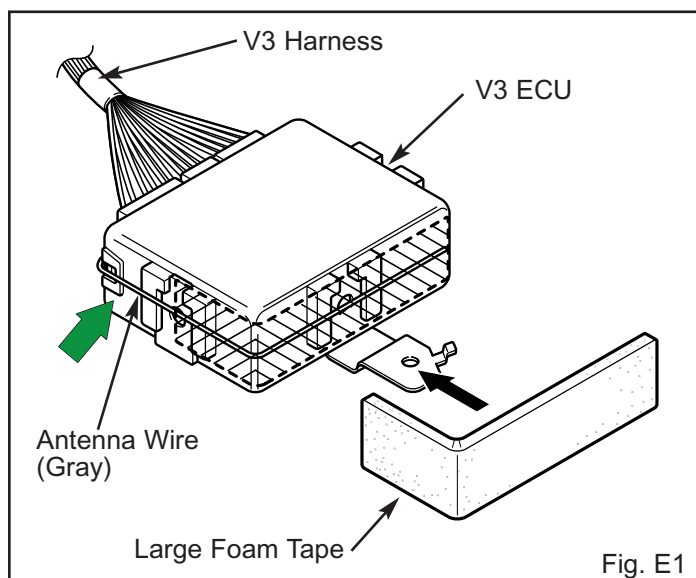
- i. Verify the connectors are plugged in securely.



E. Antenna Wire Installation

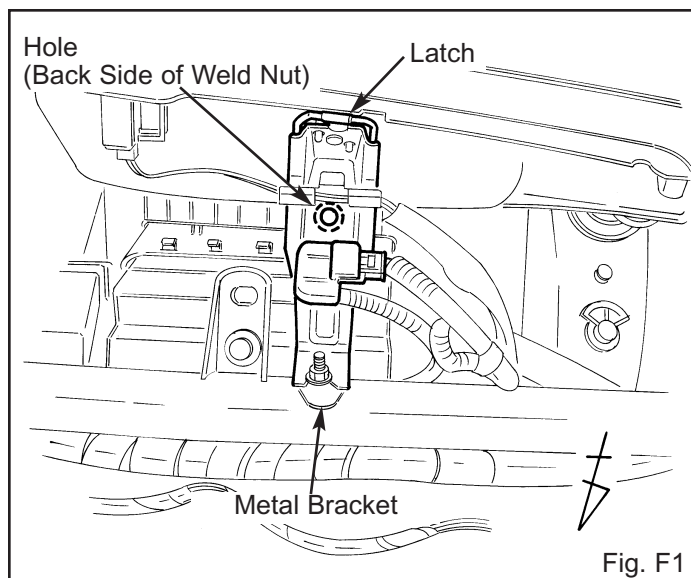


1. Secure the GRAY Antenna wire to the side of the V3 ECU with one large strip of foam tape. (Fig. E1)
- i. The GRAY Antenna wire must be positioned as shown. If this position is not correct, remote control operation range will be shortened.



F. V3 ECU Installation

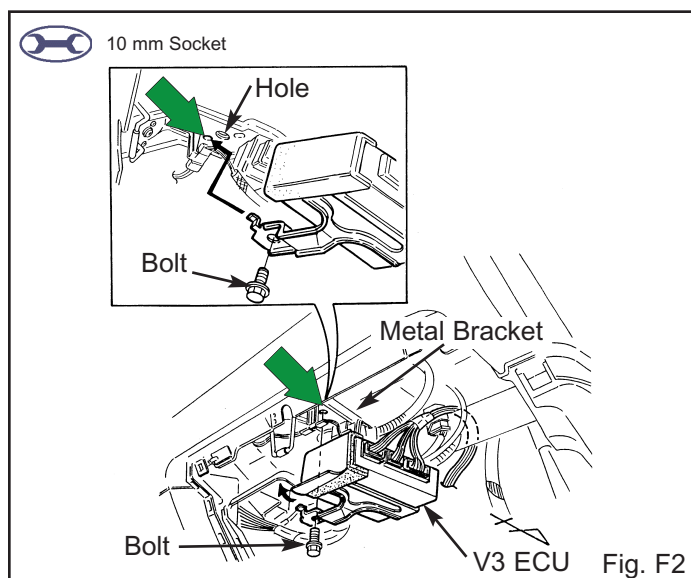
1. Looking up from beneath the dash, locate the metal bracket in the hole near the glove box lid latch. (Fig. F1)



2. Remove the backing sheet from the butyl tape. (Fig. F2)
3. Using the supplied bolt, mount the V3 ECU to the metal bracket in the glove box area. (Fig. F2)



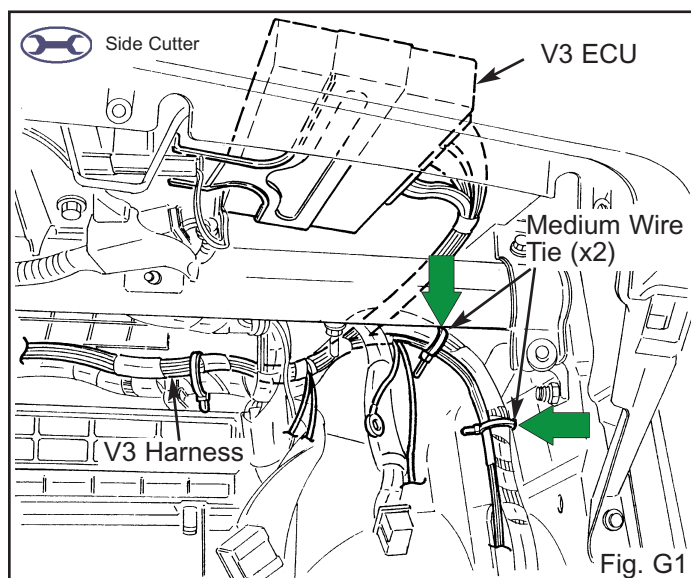
- i. Mount the V3 ECU as shown.



G. V3 Harness Installation (continued)



1. Route the V3 harness as shown, then secure it to the vehicle's harness with two medium wire ties. (Fig. G1)
- i. Clip the wire ties.



2. Attach the V3 harness' RED wire to the piezo buzzer's RED wire with one splicing connector. (Fig. G2)



- i. Verify the correct wire is chosen for splicing.



- ii. Verify the splicing connector is applied properly.

3. Attach the V3 harness' WHITE/BLACK wire to the piezo buzzer's BLACK wire with one splicing connector. (Fig. G2)



- i. Verify the correct wire is chosen for splicing.



- ii. Verify the splicing connector is applied properly.

4. Cut off the excess piezo buzzer's RED and BLACK wires. (Fig. G2)



- i. Do not cut the other wires.

5. Locate and remove the existing nut from the right most ground point on the reinforcement. (Fig. G3)



- i. Do not discard the nut.

6. Secure the V3 harness' ground wire terminal, along with the vehicle harness' ground wire terminal, using the existing nut. (Fig. G3)



- i. Verify the nut is tightened securely.

7. Route the V3 harness' white 2P connector downward toward the glove box area. (Fig. G4)



8. Bundle and secure the V3 harness, the piezo wires, the V3 Harness' WHITE/BLACK and RED wires, and microphone wire to the vehicle harness with three medium wire ties. (Fig. G4)

- i. Clip the wire ties.

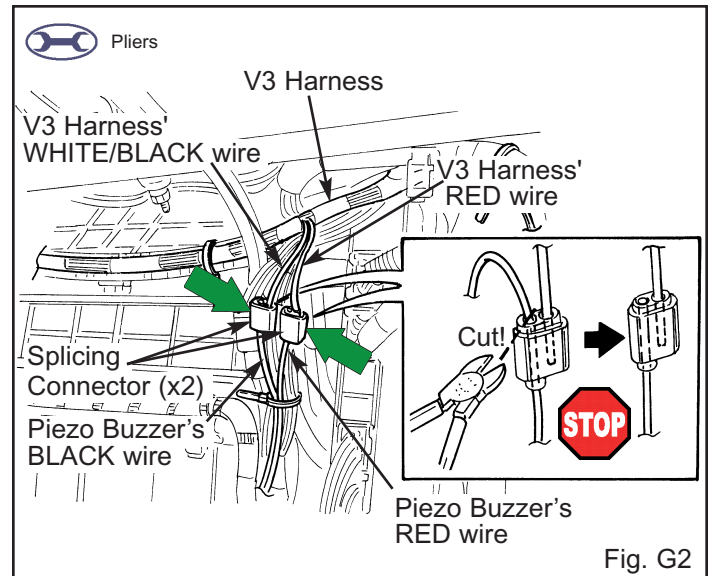


Fig. G2

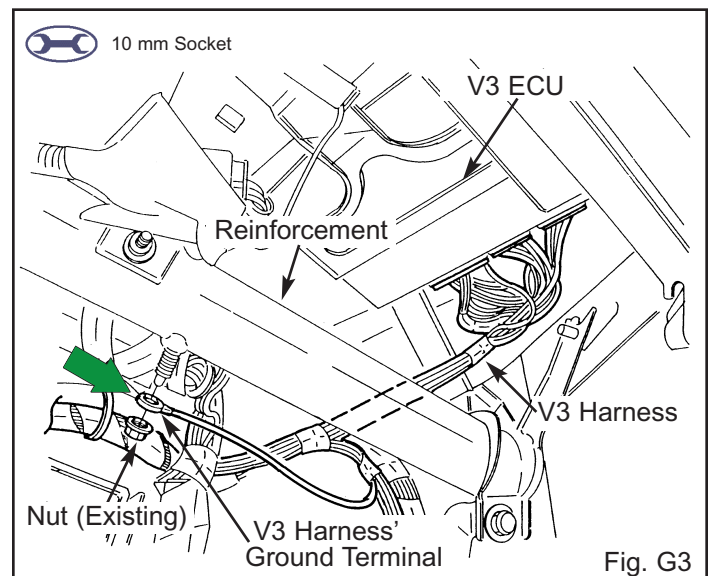


Fig. G3

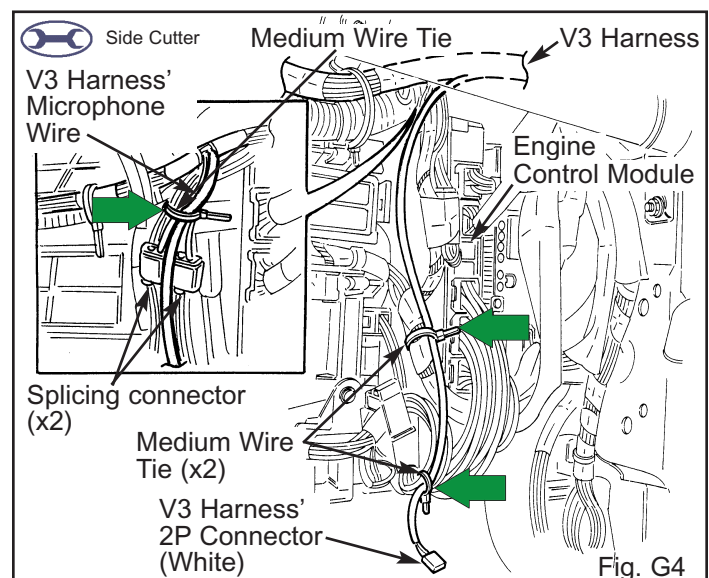


Fig. G4

FOR VEHICLES WITH IMMOBILIZER SYSTEM ONLY.
(Steps 9-11)

9. Locate and disconnect the white 35P connector from the Engine Control Module. (Fig. G5)



- i. Do not perform this step if the vehicle does not have an immobilizer system.



- ii. Do not pull on the wires; pull on the connector.

10. Locate the wire in the second row from the top, first space from the left, and attach the V3 harness' VIOLET wire with one splicing connector. (Fig. G6)



- i. Do not perform this step if the vehicle does not have an immobilizer system.



- ii. Turn the connector so the wires face you and the tab is on top.

- iii. For the splice, the tape on the vehicle harness must be sliced open 20mm with side cutter in order to gain access to the splicing wire from the vehicle harness.



- iv. Do not damage the wires.
v. Verify the correct wires are chosen for splicing.



- vi. Make sure the splicing connector is applied properly.



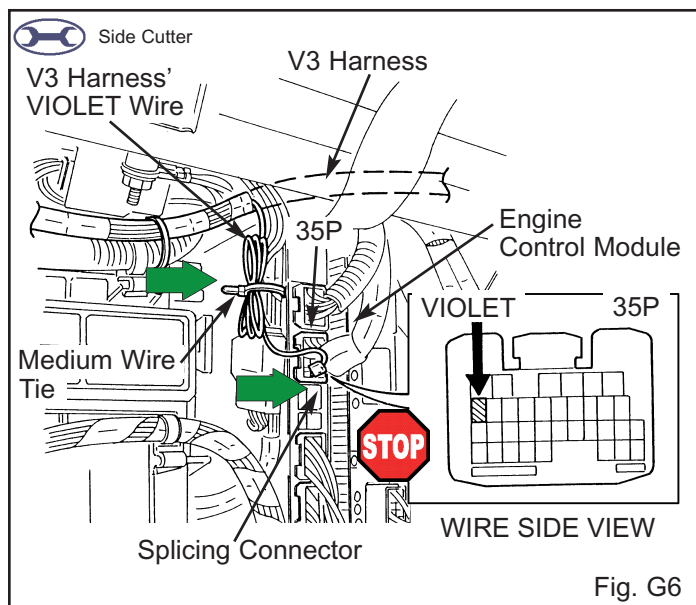
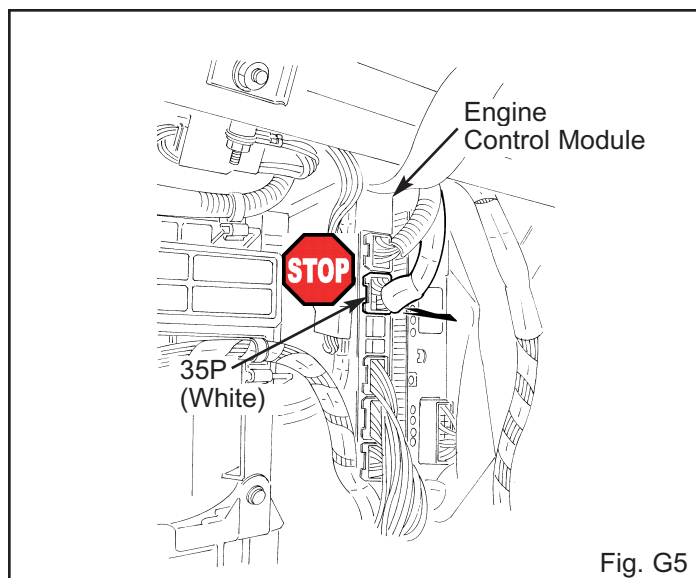
11. Reconnect the 35P connector, then secure the excess VIOLET wire to the vehicle's harness with one medium wire tie. (Fig. G6)



- i. Do not perform this step if the vehicle does not have an immobilizer system.



- ii. Verify the connector is plugged in securely.



FOR VEHICLES WITHOUT
IMMOBILIZER SYSTEM ONLY.
(Step 12)

- ➔ 12. Bundle and secure the unused V3 harness VIOLET wire to the vehicle's harness with one medium wire tie. (Fig. G7)

i. Clip the wire tie.

13. Locate and disconnect the white 11P connector and the white 12P connector from the passenger's cowl area. (Fig. G8)



i. Do not pull on the wires; pull on the connector.

14. Plug in the V3 harness' white 11P connector between the vehicle harness' white 11P connector and the passenger's cowl area. (Fig. G8)



i. Verify the connectors are plugged in securely.

15. Plug in the V3 harness' white 12P connector between the vehicle harness' white 12P connector and the passenger's cowl area. (Fig. G8)



i. Verify the connectors are plugged in securely.



- ➔ 16. Wrap the white 11P connector with one large strip of foam tape. (Fig. G9)



- ➔ 17. Wrap the white 12P connector with one large strip of foam tape. (Fig. G9)



- ➔ 18. Secure the V3 harness' 11P connector and 12P connector to the vehicle's harness with three medium wire ties. (Fig. G9)

i. Clip the wire ties.

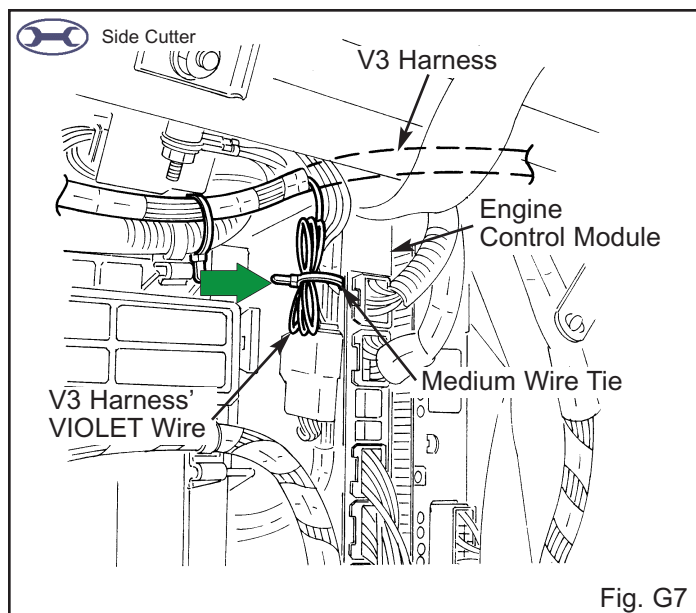


Fig. G7

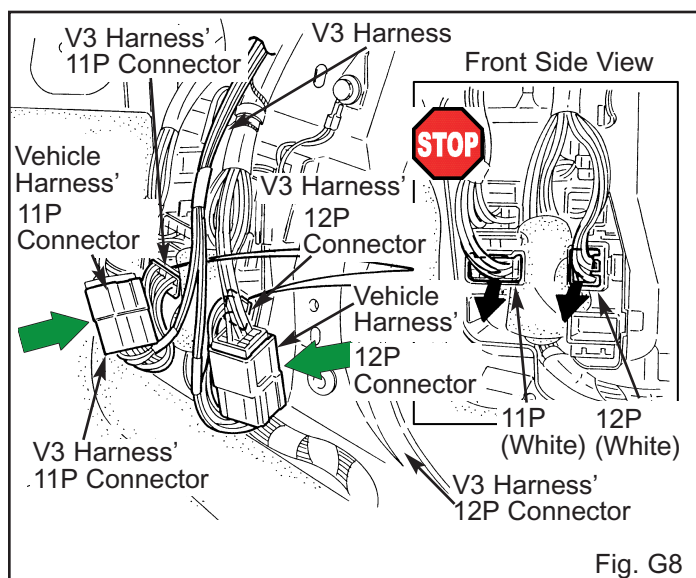


Fig. G8

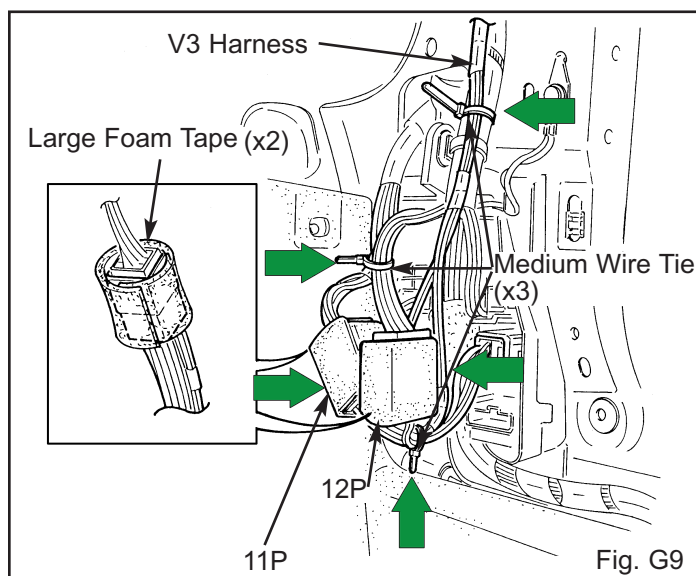


Fig. G9

H. Microphone Installation

- ➡ 1. Using 3M Prep Solvent -70 clean the area indicated on the back side of the under-dash cover. (Fig. H1)
- STOP i. Do not scratch the panel.
2. Remove the backing sheet and secure the microphone to the back side of the under-dash cover. (Fig. H1)
- ➡ i. Secure the microphone as shown.
- STOP ii. Do not touch the adhesive surface of the microphone.
- STOP iii. Press the microphone to the glove box under panel firmly.
3. Secure the microphone with one small strip of foam tape. (Fig. H2)
- STOP i. Do not cover the opening of the microphone with the foam tape.
4. Refit the glove box assembly. (Fig. H3)
- STOP i. Do not scratch the panel.
5. Plug in the microphone's 2P connector to the V3 harness' 2P connector. (Fig. H3)
- ➡ i. Verify the connectors are plugged in securely.
- ➡ 6. Wrap the 2P connector with one small strip of foam tape. (Fig. H3)
7. Refit the under-dash cover. (Fig. H3)
- STOP i. Do not scratch the cover.

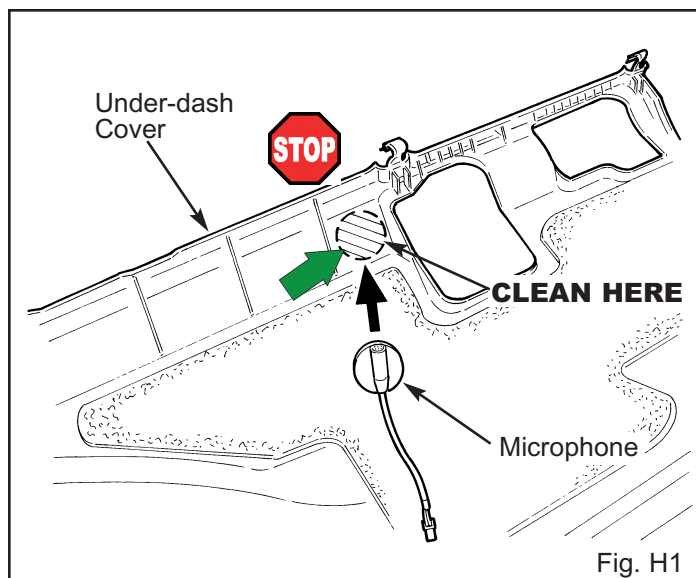


Fig. H1

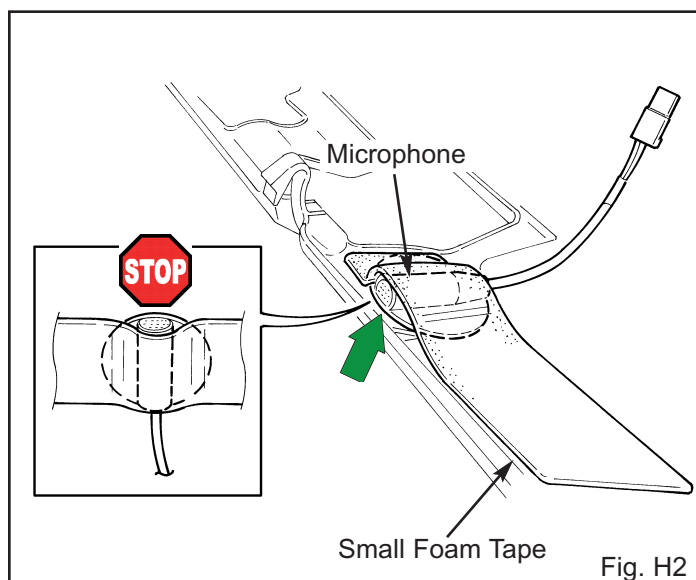


Fig. H2

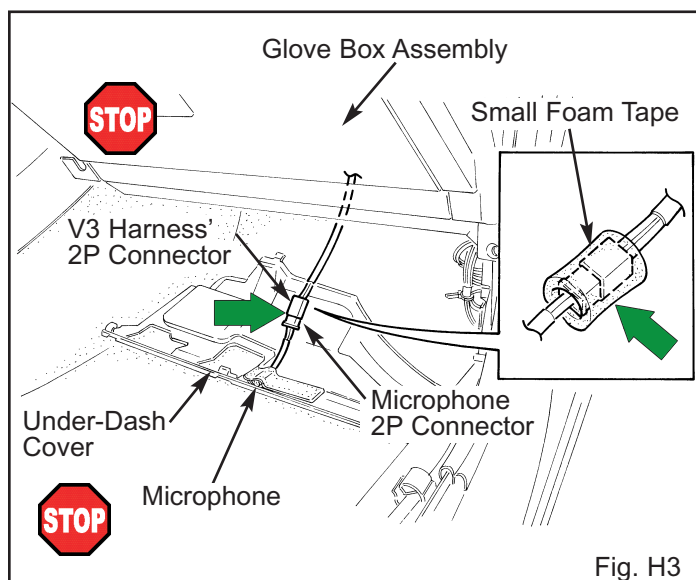


Fig. H3

I. Status Monitor Installation

FOR VEHICLES WITHOUT
IMMOBILIZER SYSTEM ONLY.
(Steps 1-9)

NOTE: The vehicle must not be equipped
with seat heaters.

1. Remove the power outlet cover from the upper console panel. (Fig. I1)
 - STOP** i. Do not scratch the panel.
 - STOP** ii. From the backside of the upper console panel, push the left clip of the outlet cover inward to dislodge the outlet cover with the tip of the screwdriver.
 - STOP** iii. Squeeze the right clip and push out the outlet cover.
2. Remove the upper console box from the upper console assembly. (Fig. I2)
 - STOP** i. Remove the four screws securing the upper console assembly.
 - STOP** ii. Do not discard the screw.
 - STOP** iii. Do not scratch the panel.
3. Install the status monitor panel into the upper console panel. (Fig. I3)
 - STOP** i. Do not scratch the panel.
 - STOP** ii. Verify the panels fit together properly with no uneven gaps between them. If the panels are not fit properly together as shown in the close-up box, Figure I3, the panels may snap and break when proceeding with the next installation step.

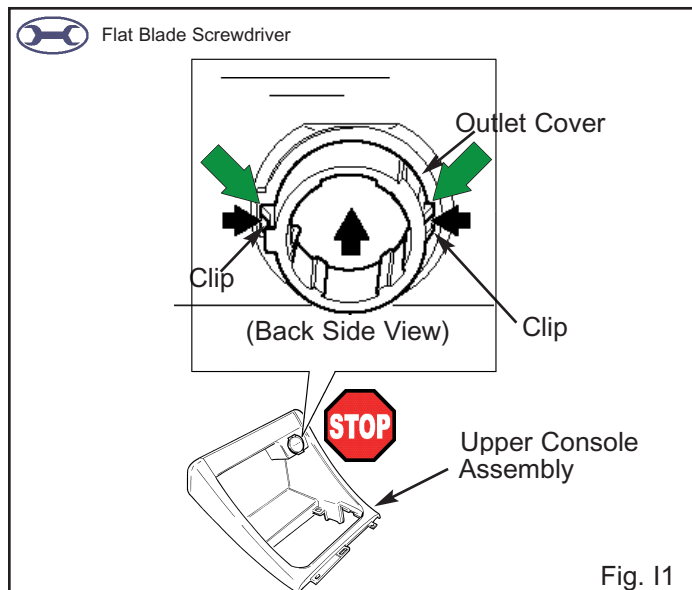


Fig. I1

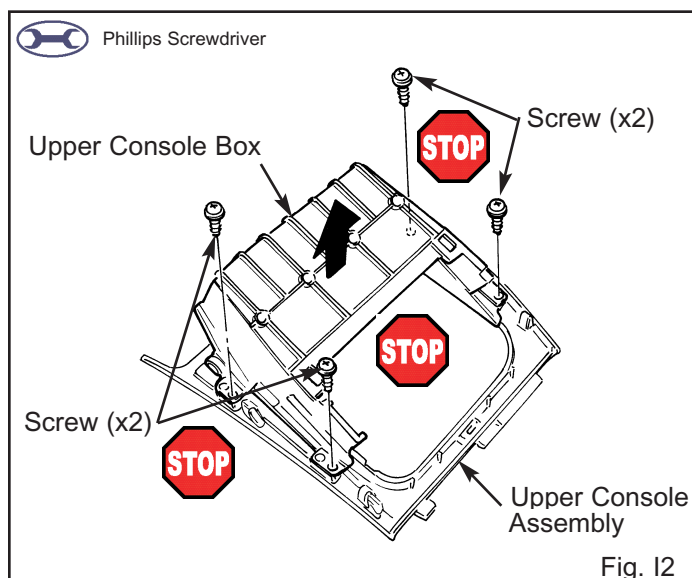


Fig. I2

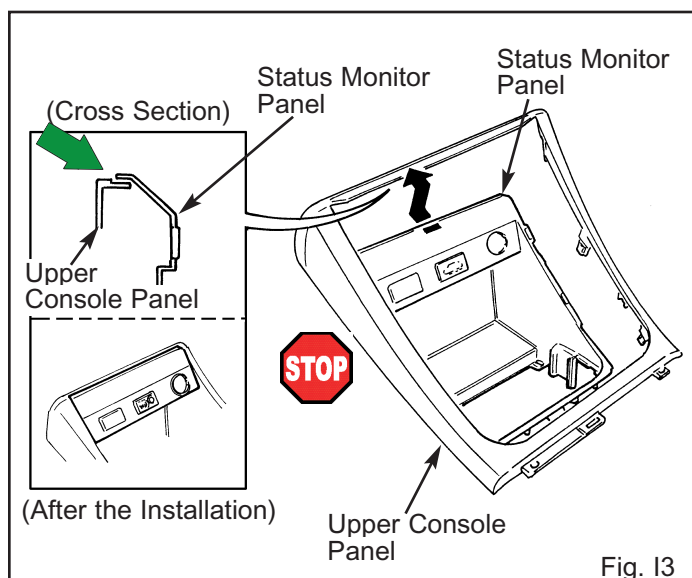


Fig. I3

4. Using the four screws, secure the status monitor panel to the upper console panel. (Fig. I4)



- i. Do not scratch the panel.

5. Plug the outlet cover into replacement status monitor panel assembly provided in the kit. (Fig. I5)



- i. Verify the outlet cover is being installed in the correct replacement status monitor panel provided in the kit.

6. Attach the back side of the status monitor panel assembly with one small strip of foam tape. (Fig. I6)



- i. Do not scratch the panel.

7. Plug in the V3 harness' white 2P connector to the status monitor. (Fig. I7)



- i. Verify the connector is plugged in securely.



- ii. Do not scratch the panel.

8. Reinstall the status monitor panel assembly into the center console. (Fig. I7)



- i. Do not scratch the panel.



- ii. Reconnect the power outlet assembly.



Phillips Screwdriver

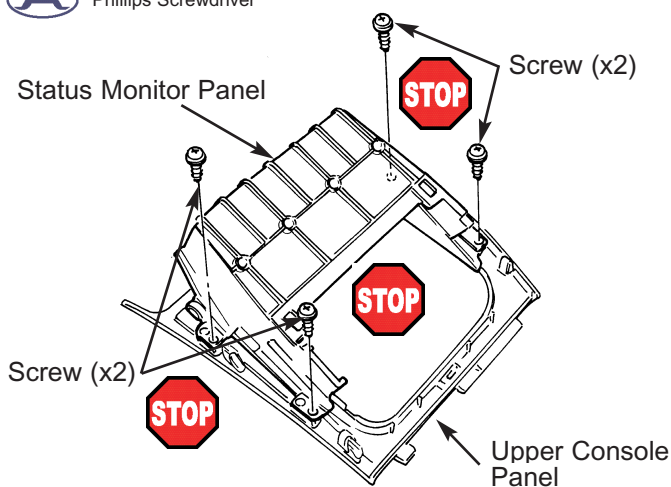


Fig. I4

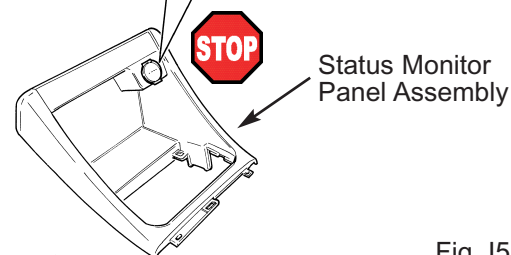
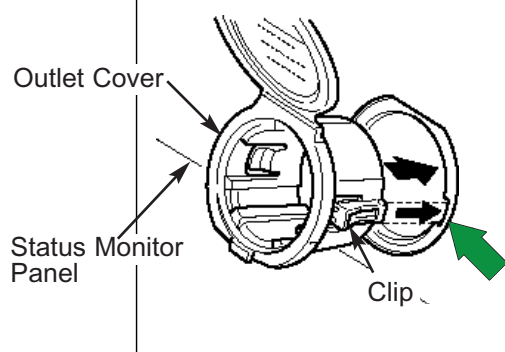


Fig. I5

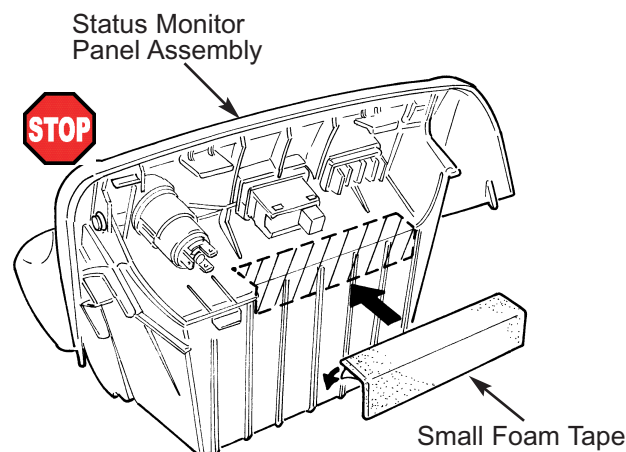


Fig. I6

9. Install the cup holder into the status monitor panel assembly. (Fig. I7)



- i. Do not scratch the panel.

J. Warning Label Installation



1. Clean the inside surface of the front door's windows. (Fig. J1)



2. Place the warning label on the inside surface of the front door's windows as shown. (Fig. J1)



- i. Use a piece of clear adhesive tape to lift the labels off of their protective backing sheet.



- ii. Do not touch the adhesive surface of the warning labels.

K. Completing the Installation

1. Complete the reassembly of the vehicle.



- i. Reconnect any disconnected connectors.



- ii. Verify the panels fit together properly with no uneven gaps between them.

2. Clean up and remove any trash.

3. Reconnect the vehicle's negative battery cable. (Fig. K1)



- i. Position the negative terminal at an angle of 90° to the battery as shown.



- ii. Tighten the nut with 36in.•lbs of torque.



- iii. Be careful not to touch the positive battery terminal.



4. Leave the owner's manual, warranty card, and remote controls in their protective bags and place them in the glove box.

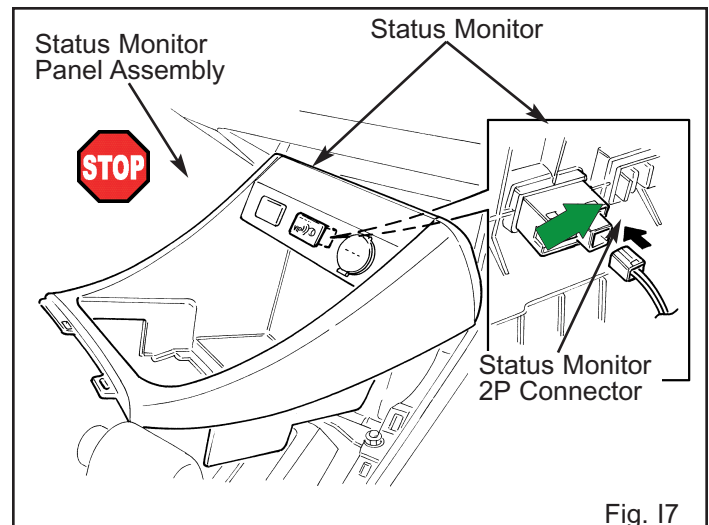


Fig. I7

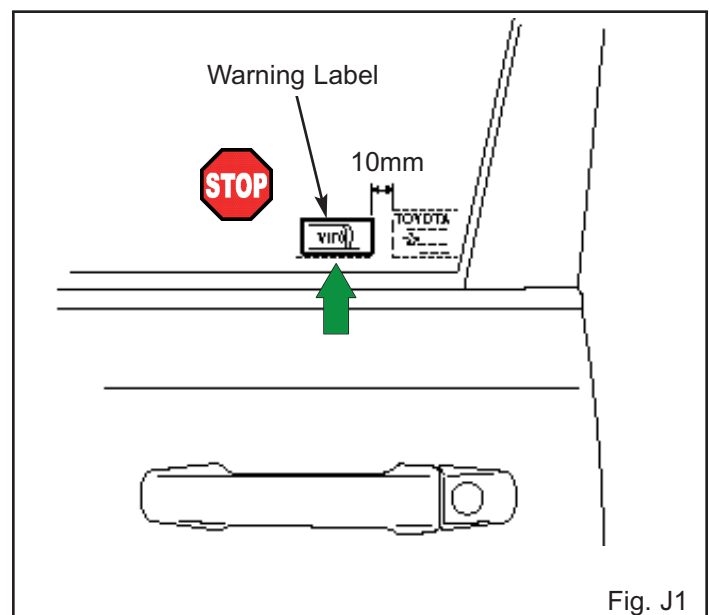


Fig. J1

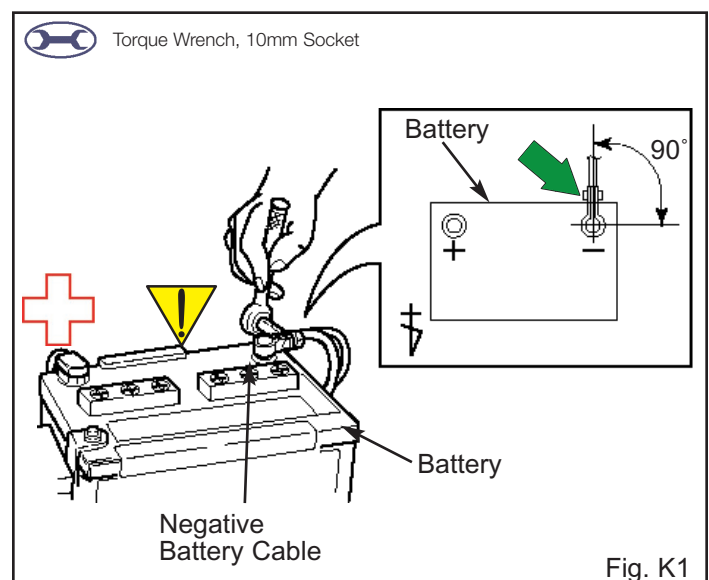


Fig. K1



Section III - Functional Verifications

Check: _____

Look for: _____

Accessory Function

☐ Press and release the remote control's lock button to start the system's arming process.

☐ Wait 30 seconds.

☐ Press and release the remote control's unlock button to disarm the system.

☐ Press and release the remote control's unlock button again within 3 seconds of disarming the system.

Open and close the driver's door.

☐ Arm and disarm the system with the remote again, then wait 30 seconds.

☐ Press and release the remote control's unlock button again to stop the arming process.

☐ Open the driver's door, then press and release the remote control's lock button.

☐ Close the driver's door.

☐ Press and release the remote control's panic button to trigger the panic alarm.

1. The tail and marker lights flash once.
The buzzer chirps once.
All doors lock.
The Status Monitor's LED or the immobiliser system's LED lights up.

2. After 30 seconds, the LED starts flashing; the system is now armed.

3. The tail and marker lights flash twice.
The buzzer chirps twice.
The interior lights turn on for thirty seconds.
The driver's door unlocks.
The Status Monitor's LED stops flashing, but an immobiliser system's LED will continue to flash.

4. The tail and marker lights flash twice.
The buzzer chirps twice.
All remaining doors unlock.

5. The doors automatically relock.
The system automatically starts the arming process.

6. Refer to step #3.

7. The buzzer sounds continuously for 5 seconds.

8. The buzzer stops sounding.

9. The horn sounds repeatedly.
The interior lights turn on.
The headlights flash repeatedly.
The tail and marker lights flash repeatedly.
The LED lights up.



Section III - Functional Verifications

Check:

- ☐ Press and release the remote control's panic button again to stop the panic alarm.

Sit in the driver's seat and make sure all doors are closed.

- ☐ Insert the key into the ignition switch and turn it to "ON".

Roll down all the windows.

- ☐ Turn the key back to "LOCK".

Remove the key and exit the vehicle.

- ☐ Insert the key into the driver's door key cylinder and turn it toward the front of the vehicle to start the arming process.

- ☐ Wait 30 seconds.

- ☐ Reach inside and manually unlock the driver's door to trigger an alarm.

- ☐ Manually unlock the driver's door again and *hold it unlocked*, open the door, then sit in the driver's seat.

- ☐ Insert the key into the ignition switch and turn it to "START" to stop the alarm.

- 10. The horn stops sounding.
All the lights stop flashing and/or turn off.

- 11. All doors lock.

- 12. All doors unlock.

- 13. All doors lock.
The LED lights up.

- 14. After 30 seconds, the LED starts flashing;
the system is now armed.

- 15. The driver's door automatically relocks.
The horn sounds repeatedly.
The interior lights turn on.
The headlights flash repeatedly.
The tail and marker lights flash repeatedly.
The LED lights up.

- 16. The driver's door lock attempts to lock repeatedly.
The horn continues to sound repeatedly.
The interior lights remain on.
The headlights, tail lights and marker lights continue flashing.
The LED remains on.

- 17. The horn stops sounding.
All the lights stop flashing and/or turn off.
The Status Monitor's LED turns off, but an immobiliser system's LED remains on.
The starter cranks and the engine starts.



Section III - Functional Verifications

Check:

Turn the key back to “LOCK”, remove it, then exit the vehicle.

- ☐ With the door open, press the lock switch on the door to lock the doors, then close the door to start the system’s arming process.
- ☐ Wait 30 seconds.
- ☐ Reach inside and manually unlock the front passenger’s door to trigger an alarm.
- ☐ Press and release the remote control’s unlock button to stop the alarm.
- ☐ Press and release the remote control’s lock button to start the system’s arming process.
- ☐ Go to the rear passenger door and unlock it to stop the arming process.
- ☐ Walk around the vehicle and perform the two previous steps with each remaining door and the trunk.

Roll up all windows, remove the key and exit the vehicle.

- 18. Tail and marker lights flash once.
The buzzer chirps once.
All doors lock.
The status monitor’s LED or immobilizer system’s LED lights up.
- 19. After 30 seconds, the LED starts flashing; the system is now armed.
- 20. The front passenger’s door automatically relocks.
The horn sounds repeatedly.
The interior lights turn on.
The headlights flash repeatedly.
The tail and marker lights flash repeatedly.
The LED lights up.
- 21. The horn stops sounding.
All Lights stop flashing and/or turn off.
The status monitors LED turns off, but an immobilizer’s LED remains on.
- 22. Refer to step # 18.
- 23. The LED turns off.
- 24. Same as steps # 22 and # 23.



Section III - Functional Verifications

Check:

- ☐ Press and release the remote control's lock button to start the arming process.
- ☐ Wait 30 seconds.

Perform the following check in a temperature controlled environment.

- ☐ With the tip of a key, *lightly* tap the center of the driver's door glass.
- ☐ With moderate force, tap the center of the driver's door window again to trigger the warn away alarm.
- ☐ Insert the key into the driver's door key cylinder and turn it toward the back of the vehicle to stop the alarm.

25. Same as step # 18.

26. After 30 seconds, the LED starts flashing; the system is now armed.

27. The alarm should not be triggered.

28. The horn sounds repeatedly.
The head lights flash repeatedly.
The tail and marker lights flash repeatedly.
The status monitor's LED lights up.

NOTE: Increase the GBS sensitivity setting to the next level if the alarm does not trigger.

NOTE: If you do not disarm the system, the alarm will last 20 seconds. *It is not necessary to check the alarm duration.*

29. The horn stops sounding.
All lights stop flashing and/ or turn off.
The status monitor's LED turns off, but an immobilizer's LED remains on.

2002 Model Year Part Number and Part Applications

Vehicle Model	RS3000+	RS3200	RS3200+	GBS KIT	CARRY OVER
Avalon	N/A	N/A	PART # 08586-41880	PART # 08586-41870	YES 01MY RS3200+, GBS
Camry	N/A	Fit Kit # 08586-3T850 Panel Kit # 08192-3T840	Complete Kit # 08586-3T860	Complete Kit # 08586-3T870	NO
Celica	N/A	Fit Kit # 08586-2D821	N/A	N/A	YES 01MY RS3200
Corolla	N/A	N/A	N/A	N/A	NO
Echo	N/A	Fit Kit # 08586-52850	N/A	N/A	YES 01MY RS3200
Highlander	N/A	N/A	Complete Kit # 08586-48010	Complete Kit # 08586-48020	YES 01MY RS3200, GBS
LandCruiser	N/A	N/A	N/A	N/A	N/A
MR2 Spyder	N/A	N/A	N/A	N/A	N/A
Prius	N/A	N/A	N/A	Complete Kit # 08192-47010	YES 01MY GBS
Rav4	N/A	Fit Kit # 08586-4A850	Complete Kit # 08586-4A840	N/A	YES 01MY RS3200, RS3200+
Sequoia	N/A	N/A	N/A	Complete Kit# 08586-0C010	YES 01MY GBS

2002 Model Year Part Number and Part Applications

Vehicle Model	RS3000+	RS3200	RS3200+	GBS KIT	CARRY OVER
Sienna	N/A	Fit Kit # 08586-08871	Fit Kit # 08586-08880	N/A	YES 01MY RS3200, RS3200+
Solara	N/A	N/A	Complete Kit # 08586-06950 (DIO Panel Kit #) (08586-06960) (08586-06970)	N/A	NO
Tacoma	N/A	Fit Kit # 08586-04810	N/A	N/A	NO
Tundra	Fit Kit # 08586-0C810	N/A	N/A	N/A	NO
4Runner	N/A	Fit Kit # 08586-3D850	Complete Kit # 08585-35840	N/A	YES 01MY RS3200, RS3200+



TROUBLESHOOTING INFORMATION

Troubleshooting information for each system starts with the pin-outs for the ECU, then is followed by the complaint, cause and check sections.

RS3000 SECURITY SYSTEM

CONNECTOR 1	CIRCUIT	MEASUREMENT
-------------	---------	-------------

RS3000 SECURITY SYSTEM

Complaint:

Common causes for this complaint:

What to Ask and Verify

What to Check

RS3200 SECURITY SYSTEM

CONNECTOR 1	CIRCUIT	MEASUREMENT
-------------	---------	-------------

RS3200 SECURITY SYSTEM

Complaint:

Common causes for this complaint:

What to Ask and Verify

What to Check

RS3200PLUS SECURITY SYSTEM

CONNECTOR 1	CIRCUIT	MEASUREMENT
-------------	---------	-------------

RS3200PLUS SECURITY SYSTEM

Complaint:

Common causes for this complaint:

What to Ask and Verify

What to Check

GBS SECURITY SYSTEM

CONNECTOR 1	CIRCUIT	MEASUREMENT
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GBS SECURITY SYSTEM

Complaint:

Common causes for this complaint:

What to Ask and
Verify

What to Check



TROUBLESHOOTING INFORMATION

Troubleshooting information for each system starts with the pin-outs for the ECU, then is followed by the complaint, cause and check sections.

REMOTE KEYLESS ENTRY

CONNECTOR 1	CIRCUIT	MEASUREMENT
-------------	---------	-------------

REMOTE KEYLESS SYSTEM

Complaint:

Common causes for this complaint:

What to Ask and Verify		What to Check
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RS3000 PLUS SECURITY SYSTEM

CONNECTOR 1	CIRCUIT	MEASUREMENT
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RS3000 PLUS SECURITY SYSTEM

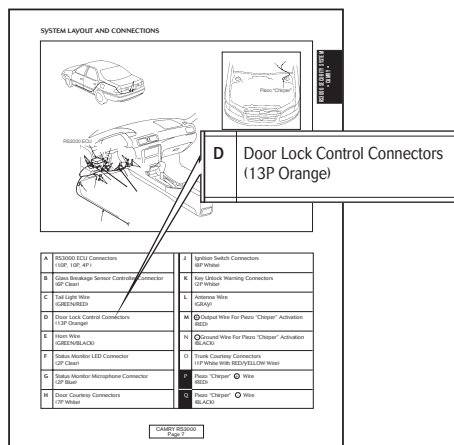
Complaint:

Common causes for this complaint:

What to Ask and Verify		What to Check
------------------------	--	---------------



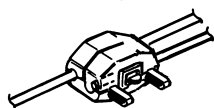
TROUBLESHOOTING INFORMATION



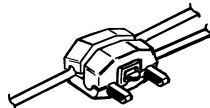
THE BASICS

Refer to the installation instructions. Splice location and connector location information is listed in the installation instructions and will help speed your search. Also, circuit information (what's controlled by the system, etc.) is listed here.

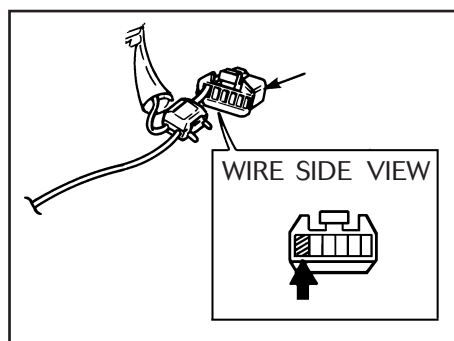
OKAY



NO GOOD!

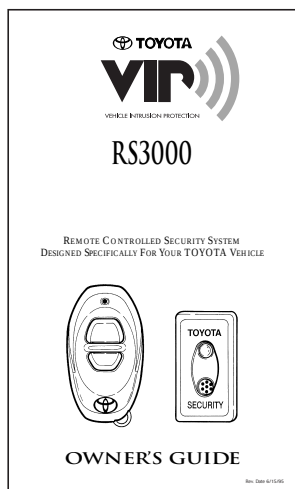


Check the spliced connections. Many problems can be traced back to the splice connections. Verify the splice locations and make sure the splice connectors are closed securely on the wires.



Wire side view. Although this description is used in every manual, many people seem to overlook it. Simply put, when counting spaces on the connector to locate the correct wire for splicing, turn the connector so the wires face you.

Count spaces, not wires. Because a mid-grade vehicle may not have the same wires as a low-grade vehicle, the instructions call out wire locations as a number of spaces from the left or right.



Refer to the owner's guide. Become familiar with the system and know the ins and outs of its operation. Some "problems" arise from the customer not understanding how the system operates, or in some cases, the customer may have accidentally programmed the system for unintended operation. All programming information is located in the owner's guides.

TROUBLESHOOTING INFORMATION

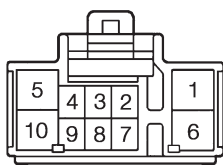
REMOTE KEYLESS ENTRY SYSTEM FOR 2002 MY TUNDRA

REMOTE KEYLESS SYSTEM

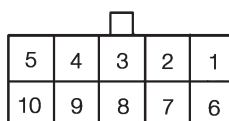
CONNECTOR 1	CIRCUIT	MEASUREMENT
1 - Ground	N/C	
2 - Ground	ECU Ground	Continuity.
3 - Ground	Door Courtesy Δ Input Door Courtesy Δ Output	Approx. 12V when doors closed, continuity when door open (switch closed). Continuity during interior light activation after arming/disarming.
4 - Ground	Door Courtesy Δ Input	Approx. 12V when doors closed, continuity when door open (switch closed).
5 - Ground	+B Power (Constant)	Always approx. 12V.
6 - Ground	N/C	
7 - Ground	Tail Light Output	$\emptyset$ V (pulsed) for exterior light activation
8 - Ground	Horn Output	$\emptyset$ V (pulsed) for horn activation during triggering
9 - Ground	N/C	
10 - Ground	N/C	

CONNECTOR 2	CIRCUIT	MEASUREMENT
1 - Ground	Door Unlock Output (A)	$\emptyset$ V (pulsed) upon remote disarming (unlocking)
2 - Ground	Manual Lock Output	$\emptyset$ V (pulsed) upon remote arming (locking)
3 - Ground	Piezo + Output	Approx. 12V when Piezo "Chirper" activated
4 - Ground	N/C	
5 - Ground	Key Unlock Warning Input	Continuity when key is in the ignition switch
6 - Ground	Door Unlock Output (B)	$\emptyset$ V (pulsed) upon remote disarming (unlocking)
7 - Ground	Key Lock Output	$\emptyset$ V (pulsed) upon remote arming (locking)
8 - Ground	N/C	
9 - Ground	N/C	
10 - Ground	N/C	

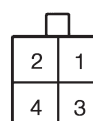
CONNECTOR 3	CIRCUIT	MEASUREMENT
1	Antenna	
2 - Ground	N/C	
3 - Ground	N/C	
4 - Ground	N/C	



CONNECTOR 1



CONNECTOR 2



CONNECTOR 3



TROUBLESHOOTING INFORMATION

REMOTE KEYLESS ENTRY SYSTEM FOR 2002 MY TUNDRA

REMOTE KEYLESS SYSTEM

Complaint: System Inoperative (No Remote Locking/ Unlocking)

Common causes for this complaint:

*Mis-connected Key Unlock Warning wire, mis-connected door courtesy wire, connectors not plugged in securely, fuse or shorting pin not installed in vehicle, blown fuse in vehicle, blown fuse in Remote Keyless Entry harness (does not apply to all vehicles), weak or dead battery in remote, remote programmed improperly (see *KNOWN ISSUES* page), remote not programmed*

What to Ask and Verify		What to Check
Does the door ajar warning sound when remote lock is attempted?	Yes	Check and correct any courtesy (door, trunk, etc.) circuit connector. Check and correct for pinched wires.
	No	Check for panic mode operation.
Does the panic mode operation work?	Yes	Check and correct the key unlock warning wire's connector. Clear the remote control codes from the ECU, then reprogram <i>both (or all)</i> remotes (they may have accidentally been programmed for second channel output).
	No	Open the remote control(s) and carefully clean the battery and contacts, then check the battery for a minimum 2.7V during remote operation. Replace the battery if necessary. Clear the remote control codes from the ECU, then reprogram <i>both (or all)</i> remotes (they may have accidentally been programmed for second channel output). Check the automatic door locking/unlocking function.
Does the automatic door locking/unlocking function of the Remote Keyless Entry work?	Yes	Check and correct the key unlock warning connector. Clear the remote control codes from the ECU, then reprogram <i>both (or all)</i> remotes (they may have accidentally been programmed for second channel output).
	No	Check the Remote Keyless Entry harness' ECU connector 1 at pin 5 for constant +12V; if no voltage, check the Remote Keyless Entry harness for a blown fuse, then the vehicle's dome or door fuse. Check the Remote Keyless Entry ECU for signs of liquid damage; it may be necessary to open the ECU case. LIQUID DAMAGED ITEMS ARE NOT COVERED UNDER WARRANTY. Check the vehicle's door lock function.
Do the vehicle's door locks work with the door switches or key?	Yes	Check and correct the key unlock warning connector. Clear the remote control codes from the ECU, then reprogram <i>both (or all)</i> remotes (they may have accidentally been programmed for second channel output).
	No	Confirm the door lock control connectors are plugged in securely. Disconnect the Remote Keyless Entry harness' Door Lock Control connectors and reconnect the vehicle's connectors, then try again. If there is no function, there is probably a problem with one vehicle's components.



TROUBLESHOOTING INFORMATION

REMOTE KEYLESS ENTRY SYSTEM FOR 2002 MY TUNDRA

REMOTE KEYLESS SYSTEM

Complaint: Doors unlock by themselves.

Common causes for this complaint:

User operation

What to Ask and Verify		What to Check
Does the Remote Keyless Entry ECU have a serial number starting with 9706... or earlier.	Yes	ECU's produced prior to July 1997 (9706...) utilized software that allowed users to operate a remote control <i>immediately</i> after closing the last door or trunk. Due to timing between the last door closing and the ECU attempting to lock, the door is interpreted as being open. Instead of locking, the system will sound a short door ajar warning. This is misinterpreted as the system locking. When the user tries to unlock the system with the remote control, it locks instead of unlock; this is interpreted as the above mentioned complaint.
	No	Check the Remote Keyless Entry ECU for signs of liquid damage; it may be necessary to open the ECU case. LIQUID DAMAGED ITEMS ARE NOT COVERED UNDER WARRANTY.



TROUBLESHOOTING INFORMATION

REMOTE KEYLESS ENTRY SYSTEM FOR 2002 MY TUNDRA

REMOTE KEYLESS SYSTEM

Complaint: Unable To Program Remote Control(s) With Ignition Switch Connected

Common causes for this complaint:

Incompatible remote controls, no IG ON power to the ECU

What to Ask and Verify		What to Check
Does the Remote Keyless Entry ECU have a serial number starting with 9706... or earlier.	Yes	The remote controls with <i>gray</i> cases/black buttons (Toyota part no. 08191-00871) are not compatible with these ECUs; you must use the remote controls with <i>black</i> cases/black buttons (Toyota part no. 08191-00870).
	No	With the ignition set to ON, check for +12V at pin 10 of the Remote Keyless Entry harness' ECU connector 1. If no voltage, check the Remote Keyless Entry harness for a blown fuse; replace any blown fuse as necessary. Check the Remote Keyless Entry ECU for signs of liquid damage; it may be necessary to open the ECU case. LIQUID DAMAGED ITEMS ARE NOT COVERED UNDER WARRANTY.

REMOTE KEYLESS SYSTEM

Complaint: Remote Control Has Short Range

Common causes for this complaint:

The system's performance does not meet the customer's expectations, weak or dead battery in the remote control, the Remote Keyless Entry harness' ECU connector 3 is not plugged in securely

What to Ask and Verify		What to Check
Does the remote control operate the system consistently from 15 feet or further?	Yes	There may be no problem. The customer may expect a 50 foot operating range; the owner's guide states "up to 50 feet" remote control range. Check the remote control performance by walking in circles around the vehicle. Typically, you will find the performance is better at some angles than others, and that objects between you and the vehicle will also affect the range; you may need to demonstrate this to the customer. <i>Changing the ECU will not help to improve the range in most cases!</i>
	No	Open the remote control(s) and carefully clean the battery and contacts, then check the battery for a minimum 2.7V during remote operation. Replace the battery if necessary. Verify the Remote Keyless Entry harness ECU connector 3 is plugged in securely and that there is continuity between the tip of the antenna wire and pin 1 of connector 3.
Has the operation been consistent prior to the problem?	Yes	Check the remote control for signs of liquid damage. Although the remotes are water resistant, they usually do not do well going through a washing machine. If damaged, replace the remote. LIQUID DAMAGED ITEMS ARE NOT COVERED UNDER WARRANTY.
	No	Open the remote control(s) and carefully clean the battery and contacts, then check the battery for a minimum 2.7V during remote operation. Replace the battery if necessary.



TROUBLESHOOTING INFORMATION

REMOTE KEYLESS ENTRY SYSTEM FOR 2002 MY TUNDRA

REMOTE KEYLESS SYSTEM

Complaint: No Piezo "Chirper" Function

Common causes for this complaint:

Piezo function defeated, mis-connected Piezo "Chirper" wires

What to Ask and Verify		What to Check
Does the Piezo "Chirper" work for the Door Ajar Warning function?	Yes	Refer to the owner's guide programming section and reprogram the system.
	No	Verify the connectors were applied properly. If they were, check for voltage at the Remote Keyless Entry harness' ECU connector pin 3 during the door ajar warning.
Is there +12V at pin 3 of the Remote Keyless Entry harness' ECU connector 2 during the door ajar warning?	Yes	Check for continuity between connector 2, pin 3 and the Piezo "Chirper" + output wire. If no continuity, check and fix the Remote Keyless Entry harness. If there is continuity there, check for continuity between the Remote Keyless Entry harness' Piezo "Chirper" ground wire and ground pin 2 of connector 1; if no continuity check and fix the Remote Keyless Entry harness. If there is continuity for both wires, replace the Piezo "Chirper".
	No	Check the Remote Keyless Entry ECU for signs of liquid damage; it may be necessary to open the ECU case. LIQUID DAMAGED ITEMS ARE NOT COVERED UNDER WARRANTY.

REMOTE KEYLESS SYSTEM

Complaint: No Tail Light Or Marker Light Operation

Common causes for this complaint:

Mis-spliced Tail Light wire, connectors not plugged in securely, blown fuse

What to Ask and Verify		What to Check
Do the vehicle's tail lights work ?	Yes	Verify the Remote Keyless Entry harness' tail light circuit connectors are plugged in securely. Check for continuity between the Remote Keyless Entry ECU connector and the tail light circuit connection.
	No	Confirm that the vehicle's connector for the tail light circuit is plugged in securely. Disconnect the the Remote Keyless Entry harness' tail light circuit connectors and reconnect the vehicle's connectors, then check the tail light function again. If they work, check the Remote Keyless Entry harness. If not, the problem is vehicle-related. (applies to some vehicles)
Is there continuity between pin 7 of the Remote Keyless Entry harness' ECU connector 1 and the taillight circuit connection?	Yes	Activate the panic mode and check pin 7 for pulsed continuity to ground. If there is continuity, check the Remote Keyless Entry ECU for signs of liquid damage; it may be necessary to open the ECU case. LIQUID DAMAGED ITEMS ARE NOT COVERED UNDER WARRANTY.
	No	Check and fix the Remote Keyless Entry harness.



TROUBLESHOOTING INFORMATION

REMOTE KEYLESS ENTRY SYSTEM FOR 2002 MY TUNDRA

REMOTE KEYLESS SYSTEM

Complaint: No Horn Function

Common causes for this complaint:

Mis-connected Horn wire, connectors not plugged in securely, blown horn fuse.

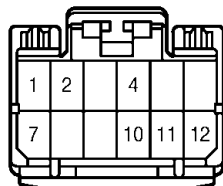
What to Ask and Verify		What to Check
Does the horn switch in the vehicle work?	Yes	Check and correct the horn connector location. Check for continuity between the Remote Keyless Entry ECU connector and the horn circuit connection.
	No	Check the vehicle's horn fuse and replace if necessary. Confirm that the combination switch connector for the horn circuit is plugged in securely.
Is there continuity between pin 8 of the Remote Keyless Entry harness' ECU connector 1 and the horn circuit connection?	Yes	Activate the panic mode and check pin 8 for pulsed continuity to ground. If there is continuity, check fix the wire harness. Check the Remote Keyless Entry ECU for signs of liquid damage; it may be necessary to open the ECU case. LIQUID DAMAGED ITEMS ARE NOT COVERED UNDER WARRANTY.
	No	If no continuity, there is a wire harness problem. Fix as necessary.

REMOTE KEYLESS ENTRY SYSTEM FOR 2001-2002 MY MR2-SPYDER

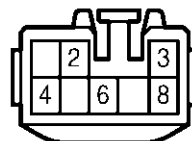
REMOTE KEYLESS SYSTEM

CONNECTOR 1	CIRCUIT	MEASUREMENT
1 - Ground	SUB +B Power (Door)	Always Approx. 12V
2 - Ground	Piezo + Output	Approx. 12V when Piezo "Chirper" is active
3	N/C	
4 - Ground	Door Unlock Output	0V (pulsed) upon remote disarming (unlocking)
5	N/C	
6 - Ground	N/C	
7 - Ground	ECU Ground	Continuity
8	N/C	
9	N/C	
10 - Ground	Head Light Output	0V (Pulsed) for Head Light activation during triggering
11 - Ground	Tail Light Output	0V (Pulsed) for exterior light activation
12 - Ground	Horn Output	0V (Pulsed) for Horn activation during triggering

CONNECTOR 2	CIRCUIT	MEASUREMENT
1	N/C	
2 - Ground	Door Lock Motor Output	Approx. 12V when Driver's door unlocked
3 - Ground	N/C	
4 - Ground	Door Lock Motor Output	Approx. 12V when Driver's door unlocked
5	N/C	
6 - Ground	N/C	
7	N/C	
8 - Ground	N/C	



CONNECTOR 2



CONNECTOR 3



TROUBLESHOOTING INFORMATION

REMOTE KEYLESS ENTRY SYSTEM FOR 2001-2001 MY MR2-SPYDER

REMOTE KEYLESS SYSTEM

Complaint: System Inoperative (No Remote Locking/ Unlocking)

Common causes for this complaint:

Mis-connected Key Unlock Warning wire, mis-connected doorcourtesy wire, connectors not plugged in securely, fuse or shorting pin not installed in vehicle, blown fuse in vehicle, blown fuse in Remote Keyless Entry harness (does not apply to all vehicles), weak or dead battery in remote, remote programmed improperly remote not programmed.

What to Ask and Verify		What to Check
Does the door ajar warning sound when remote locking is attempted?	Yes	Check and correct any courtesy (door, trunk, etc.) circuit wire's connector. Check and correct for pinched wires.
	No	Check for panic mode operation.
Does the panic mode operation work?	Yes	Check and correct the key unlock warning connector. Clear the remote control codes from the ECU, then reprogram <i>both (or all)</i> remotes (they may have accidentally been programmed for second channel output).
	No	Open the remote control(s) and carefully clean the battery and contacts, then check the battery for a minimum 2.7V during remote operation. Replace the battery if necessary. Clear the remote control codes from the ECU, then reprogram <i>both (or all)</i> remotes (they may have accidentally been programmed for second channel output). Check the automatic door locking/unlocking function.
Does the automatic door locking/unlocking function of the Remote Keyless Entry work?	Yes	Check and correct the key unlock warning wire connector location (does not apply to all vehicles). Clear the remote control codes from the ECU, then reprogram <i>both (or all)</i> remotes (they may have accidentally been programmed for second channel output).
	No	Check the Remote Keyless Entry harness' ECU connector 3 at pin 11 for constant +12V; if no V9 voltage, check the Remote Keyless Entry harness for a blown fuse, then the vehicle's dome or door fuse. Check the Remote Keyless Entry ECU for signs of liquid damage; it may be necessary to open the ECU case. LIQUID DAMAGED ITEMS ARE NOT COVERED UNDER WARRANTY. Check the vehicle's door lock function.
Do the vehicle's door locks work with the door switches or key?	Yes	Check and correct the key unlock warning connector location (does not apply to all vehicles). Verify the splice connector was applied properly. Clear the remote control codes from the ECU, then reprogram <i>both (or all)</i> remotes (they may have accidentally been programmed for second channel output).
	No	Confirm the door lock control connectors are plugged in securely. Disconnect the Remote Keyless Entry harness' Door Lock Control connectors and reconnect the vehicle's connectors, then try again. If there is no function, there is probably a problem with one vehicle's components.



TROUBLESHOOTING INFORMATION

REMOTE KEYLESS ENTRY SYSTEM FOR 2001-2002 MY MR2-SPYDER

REMOTE KEYLESS SYSTEM

Complaint: No Head Light Function

Common causes for this complaint:

Mis-spliced head lamp wire, connectors not plugged in securely, blown head lamp fuse.

What to Ask and Verify		What to Check
Does the Head light switch in the vehicle work?	Yes	Check and correct the head lamp wire's splice location (applies to most vehicles). Verify the splice connector was applied correctly. Check for continuity between the Remote Keyless Entry ECU connector and the head lamp circuit connection.
	No	Check the vehicle's head lamp fuse and replace if necessary. Confirm that the combination switch connector for the head lamp is plugged in securely.
Is there continuity between pin 10 of the Remote Keyless Entry harness' ECU connector 2 and the head lamp circuit?	Yes	Activate the panic mode and check pin 10 for pulsed continuity to ground. If there is continuity, check fix the wire harness. Check the Remote Keyless Entry ECU for signs of liquid damage; it may be necessary to open the ECU case. LIQUID DAMAGE ITEMS ARE NOT COVERED UNDER WARRANTY.
	No	If no continuity, there is a wire harness problem. Fix as necessary.



TROUBLESHOOTING INFORMATION

REMOTE KEYLESS ENTRY SYSTEM FOR 2001-2002 MY MR2-SPYDER

REMOTE KEYLESS SYSTEM

Complaint: Remote Control Inoperative

Common causes for this complaint:

Mis-connected Key Unlock Warning wire, weak or dead battery in remote, remote programmed improperly, remote not programmed, connectors not plugged in securely.

What to Ask and Verify		What to Check
Does the panic mode operation work?	Yes	Check and correct the key unlock warning connector location (does not apply to all vehicles). Verify the splice connector was applied properly. Clear the remote control codes from the ECU, then reprogram <i>both (or all)</i> remotes (they may have accidentally been programmed for second channel output).
	No	Open the remote control(s) and carefully clean the battery and contacts, then check the battery for a minimum 2.7V during remote operation. Replace the battery if necessary. Clear the remote control codes from the ECU, then reprogram <i>both (or all)</i> remotes (they may have accidentally been programmed for second channel output). Check the automatic door locking/unlocking function.
Does the automatic door locking/unlocking function of the Remote Keyless Entry work?	Yes	Check and correct the key unlock warning connector location (does not apply to all vehicles). Clear the remote control codes from the ECU, then reprogram <i>both (or all)</i> remotes (they may have accidentally been programmed for second channel output).
	No	Check the Remote Keyless Entry harness' ECU connector 1 at pin 11 for constant +12V; if no voltage, check the Remote Keyless Entry harness for a blown fuse, then the vehicle's dome or door fuse. Check the vehicle's door lock function.
Does the vehicle's door locks work with the door switches or key?	Yes	Check and correct the key unlock warning connector location (does not apply to all vehicles). Verify the splice connector was applied properly. Clear the remote control codes from the ECU, then reprogram <i>both (or all)</i> remotes (they may have accidentally been programmed for second channel output).
	No	Confirm the door lock control connectors are plugged in securely.



TROUBLESHOOTING INFORMATION

REMOTE KEYLESS ENTRY SYSTEM FOR 2001-2002 MY MR2-SPYDER

REMOTE KEYLESS SYSTEM

Complaint: Remote Control Has Short Range

Common causes for this complaint:

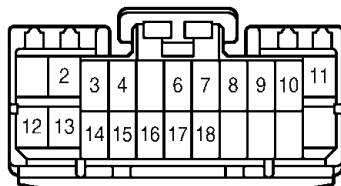
The system's performance does not meet the customer's expectations, weak or dead battery in the remote control, the Remote Keyless Entry harness' ECU connector 3 is not plugged in securely

What to Ask and Verify		What to Check
Does the remote control operate the system consistently from 15 feet or further?	Yes	There may be no problem. The customer may expect a 50 foot operating range; the owner's guide states "up to 50 feet" remote control range. Check the remote control performance by walking in circles around the vehicle. Typically, you will find the performance is better at some angles than others, and that objects between you and the vehicle will also affect the range; you may need to demonstrate this to the customer. <i>Changing the ECU will not help to improve the range in most cases!</i>
	No	Open the remote control(s) and carefully clean the battery and contacts, then check the battery for a minimum 2.7V during remote operation. Replace the battery if necessary. Verify the Remote Keyless Entry harness ECU connector 3 is plugged in securely and that there is continuity between the tip of the antenna wire and pin 1 of connector 3.
Has the operation been consistent prior to the operation?	Yes	Check the remote control for signs of liquid damage. Although the remotes are water resistant, they usually do not do well going through a washing machine. If damaged, replace the remote. LIQUID DAMAGED ITEMS ARE NOT COVERED UNDER WARRANTY.
	No	Open the remote control(s) and carefully clean the battery and contacts, then check the battery for a minimum 2.7V during remote operation. Replace the battery if necessary.

REMOTE KEYLESS ENTRY SYSTEM FOR 2001-2002 MY MR2-SPYDER

REMOTE KEYLESS SYSTEM

CONNECTOR 3	CIRCUIT	MEASUREMENT
1	N/C	
2 - Ground	Trunk Courtesy Input	Continuity at all times.
3 - Ground	Rear Door Courtesy Input	Approx. 12V when rear door closed, continuity when open (switch closed).
4 - Ground	Driver Door Courtesy Input	Approx. 12V when driver's door closed, continuity when open (switch closed).
5 - Ground	Passenger Door Courtesy Input	Approx. 12V when passenger's door closed, continuity when open (switch closed).
6 - Ground	Key Unlock Warning Input	Continuity when key is in the ignition switch
7 - Ground	Trunk Key Input	Continuity at all times.
8 - Ground	Door Key Lock Input	Continuity when door locked by key
9 - Ground	Driver Door Unlock Input	Continuity when door unlocked by driver's key
10 - Ground	Passenger Door Key Unlock Input	Continuity when door unlocked by passenger's key
11 - Ground	+B Power (Dome)	Always approx. 12V
12 - Ground	Antenna	
13 - Ground	IG Input	Approx. 12V when ignition switch is in ON position
14 - Ground	Driver Door Position Input	0V during driver door knob unlocked
15 - Ground	Passenger Door Position Input	0V during passenger door knob unlocked
16 - Ground	Rear Door Position Input	0V during rear door knob unlocked
17 - Ground	N/C	
18 - Ground	N/C	
19	N/C	
20	N/C	
21	N/C	
22	N/C	



CONNECTOR 1



TROUBLESHOOTING INFORMATION

REMOTE KEYLESS ENTRY SYSTEM FOR 2001-2002 MY MR2-SPYDER

REMOTE KEYLESS SYSTEM

Complaint: No Piezo "Chirper" Function		
Common causes for this complaint: <i>Piezo function defeated, mis-connected Piezo "Chirper" wires</i>		
What to Ask and Verify		What to Check
Does the Piezo "Chirper" work for the Door Ajar Warning function?	Yes	Refer to the owner's guide programming section and reprogram the system.
	No	Verify the splice connectors were applied properly. If they were, check for voltage at the Remote Keyless Entry harness' ECU connector 1 pin 4 during the door ajar warning.
Is there a +12V at pin 2 of the Remote Keyless Entry harness' ECU connector 2 during the door ajar warning?	Yes	Check for continuity between connector 2, pin 2 and the Piezo "Chirper" + output wire. If no continuity, check and fix the Remote Keyless Entry harness. If there is continuity there, check for continuity between the Remote Keyless Entry harness' Piezo "Chirper" ground wire and ground pin 7 of connector 2; if no continuity check and fix the Remote Keyless Entry harness. If there is continuity for both wires, replace the Piezo "Chirper".
	No	Check the Remote Keyless Entry ECU for signs of liquid damage; it may be necessary to open the ECU case. LIQUID DAMAGED ITEMS ARE NOT COVERED UNDER WARRANTY.

REMOTE KEYLESS SYSTEM

Complaint: No Tail Light Or Marker Light Operation		
Common causes for this complaint: <i>Mis-spliced Tail Light wire, connectors not plugged in securely, blown fuse</i>		
What to Ask and Verify		What to Check
Do the vehicle's tail lights work ?	Yes	Check and correct the tail light wire's splice location (applies to most vehicles). Verify the splice connector was applied correctly. Verify the Remote Keyless Entry harness' tail light circuit connectors are plugged in securely. Check for continuity between the Remote Keyless Entry ECU connector and the tail light circuit connection.
	No	Confirm that the vehicle's connector for the tail light circuit is plugged in securely. Disconnect the the Remote Keyless Entry harness' tail light circuit connectors and reconnect the vehicle's connectors, then check the tail light function again. If they work, check the Remote Keyless Entry harness. If not, the problem is vehicle-related. (applies to some vehicles).
Is there continuity between pin 11 of the Remote Keyless Entry harness' ECU connector 1 and the taillight circuit connection?	Yes	Activate the panic mode and check pin 11 for pulsed continuity to ground. If there is continuity, check the Remote Keyless Entry ECU for signs of liquid damage; it may be necessary to open the ECU case. LIQUID DAMAGED ITEMS ARE NOT COVERED UNDER WARRANTY.
	No	Check and fix the Remote Keyless Entry harness.



TROUBLESHOOTING INFORMATION

REMOTE KEYLESS ENTRY SYSTEM FOR 2001-2002 MY MR2-SPYDER

REMOTE KEYLESS SYSTEM

Complaint: No Horn Function		
Common causes for this complaint: <i>Mis-spliced Horn wire, connectors not plugged in securely, blown horn fuse.</i>		
What to Ask and Verify		What to Check
Does the horn switch in the vehicle work?	Yes	Check and correct the horn wire's splice location (applies to most vehicles). Verify the splice connector was applied properly. Check for continuity between the Remote Keyless Entry ECU connector and the horn circuit connection.
	No	Check the vehicle's horn fuse and replace if necessary. Confirm that the combination switch connector for the horn circuit is plugged in securely.
Is there continuity between pin 12 of the Remote Keyless Entry harness' ECU connector 2 and the horn circuit connection? (Usually a spliced GREEN/ BLACK wire)	Yes	Activate the panic mode and check pin12 for pulsed continuity to ground. If there is continuity, check fix the wire harness. Check the Remote Keyless Entry ECU for signs of liquid damage; it may be necessary to open the ECU case. LIQUID DAMAGED ITEMS ARE NOT COVERED UNDER WARRANTY.
	No	If no continuity, there is a wire harness problem. Fix as necessary.



TROUBLESHOOTING INFORMATION

RS3000 PLUS SECURITY SYSTEM FOR 2002 MY TUNDRA
See RS3000 SECURITY SYSTEM Troubleshooting Information

Part Number: 08601-00871

Section I - Installation Preparation

Kit Contents

Item #	Quantity Req'd.	Description
1	1	Changer harness
2	1	Changer unit
3	1	Base bracket
4	1	Magazine
5	2	Side brackets
6	2	Upper back brackets

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	2	M5 Nuts
2	4	M5x8 screws
3	2	M5x10 screws
4	4	M5x16 screws
5	2	Strips of foam tape

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1		

Conflicts

Note: In Dash 6 Disc CD Changer (P6)

Recommended Tools

Safety Tools	
Vehicle Protection	Blankets
Hand Protection	Gloves
Special Tools	
None	
Installation Tools	
Screwdriver	Phillips
Socket	8 mm, 10 mm, 12 mm
Ratchet	
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST # 00002-06001-01
Extension	
Torque Wrench	
Scissors	
Test CDs	3 Discs
Special Chemicals	
None	

General Applicability

Note: Cannot be installed on vehicles with factory 6 Disc CD changer.

Recommended Sequence of Application

Item #	Accessory
1	
2	
3	

*Mandatory

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
	CRITICAL PROCESS: Proceed with caution to ensure a quality installation.
	GENERAL PROCESS: This highlights specific processes to ensure a quality installation.
	TOOLS & EQUIPMENT: This calls out the specific tools and equipment required for this process

Section II - Installation Procedure

A. Disassemble Switch Unit and Center Cluster

-  1. Remove negative (-) battery terminal with 10 mm socket before any disassembly starts.
-  2. Be sure to protect removed parts and panels with protection (blankets) during installation.
-  3. Use nylon pry tool to disengage clips at positions 1 and 2, in numerical order shown to the switch unit. Next remove positions 3 and 4. (Figure A1)
-  4. Use nylon pry tool to disengage clips at positions 5 and 6, in numerical order shown to the center cluster. Next remove positions 7 and 8. (Figure A1)

B. Remove the Radio/Combo

-  1. Use 10mm socket and extension to remove screws located on combo. (Figure B1)
2. Remove combo and disconnect connectors and antenna cable.

C. Remove the Front Scuff Plate (R) and Cowl Side Trim (R)

-  1. Use nylon pry tool to disengage clips on front right scuff plate. (Figure C1)
2. Remove front scuff plate. (Figure C1)
3. Remove right cowl side trim nut by turning counter clockwise. (Figure C1)
4. Remove cowl side trim. (Figure C1)

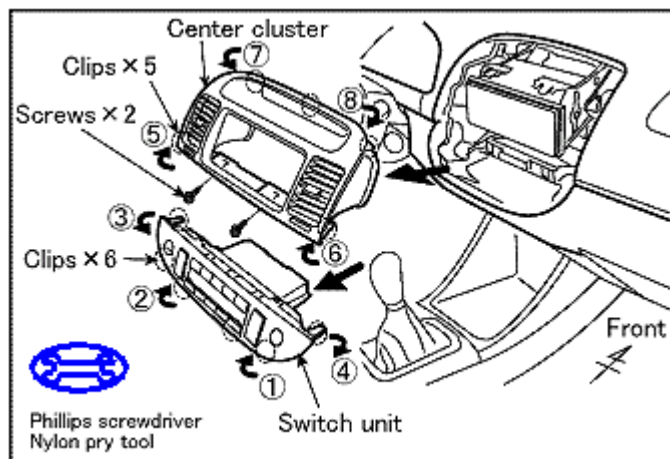


Figure A1

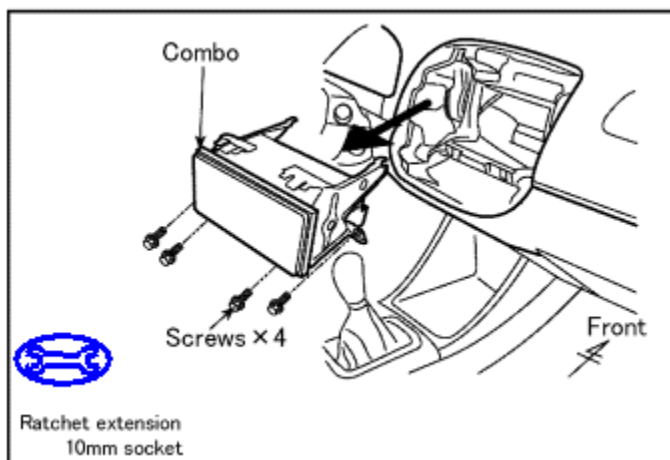


Figure B1

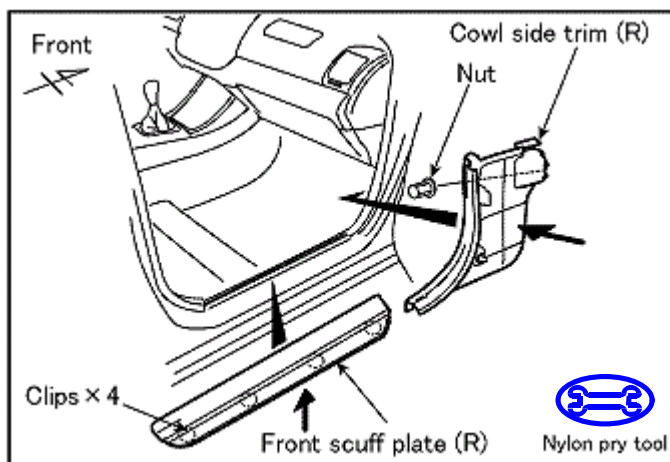


Figure C1

D. Remove the Under Dash Cover and Glove Box

1. Remove the under dash cover

- ➡ i. Use nylon pry tool to disengage clips on under dash cover. (Figure D1)
- ➡ ii. Use nylon removal tool and remove plastic clip in floor carpet.

2. Remove the glove box assembly.

- ➡ i. Remove the 10 mm bolt on lower right side of glove box. (Figure D2).
 - ➡ ii. Remove cap on lower left side of glove box using the small tip NRT to reveal Phillips screw and remove. (Figure D2 inset).
- ➡ 3. Remove 3 Phillips screws from top of glove box (Figure D2) and remove glove box.

E. Remove the Rear Seat Cushion

1. Lift rear seat cushion straight up disengages clips located beneath. (Figure E1)
2. Push female seat belt receptacle through seat cushion holes. (Figure E1)
3. Remove rear seat cushion. (Figure E1)

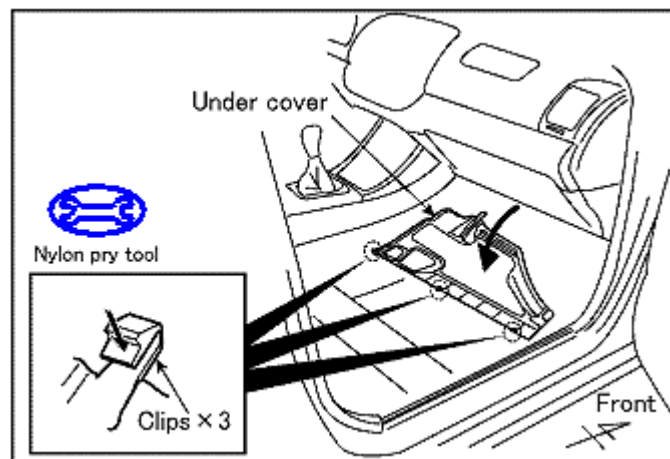


Figure D1

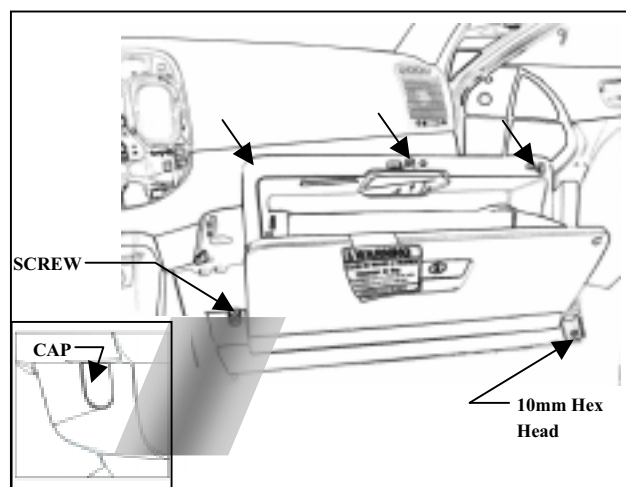


Figure D2



Ratchet 10 mm Socket
Phillips Screwdriver

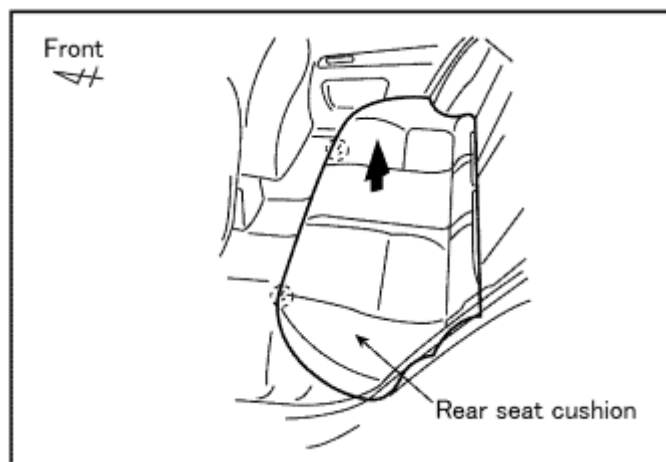


Figure E1

F. Remove the Rear Scuff Plate

- ➡ 1. Use nylon pry tool to disengage clips on rear right scuff plate. (Figure F1)
2. Remove the rear scuff plate. (Figure F1)

G. Remove the B Pillar Cover

- ➡ 1. Use nylon pry tool to disengage clips on B pillar cover. (Figure G1)
2. Remove the B pillar cover. (Figure G1)

H. Remove the Rear Seat Shoulder (R)

- ➡ 1. Use 12 mm socket and extension to remove bolts located on rear seat shoulder. (Figure H1)
2. Remove the rear seat shoulder (R). (Figure H1)

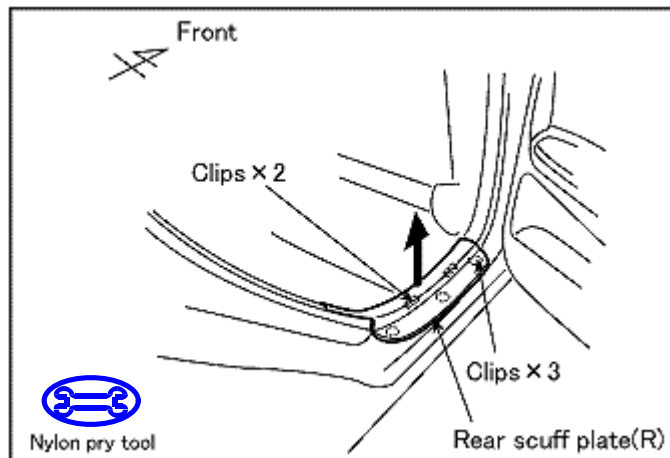


Figure F1

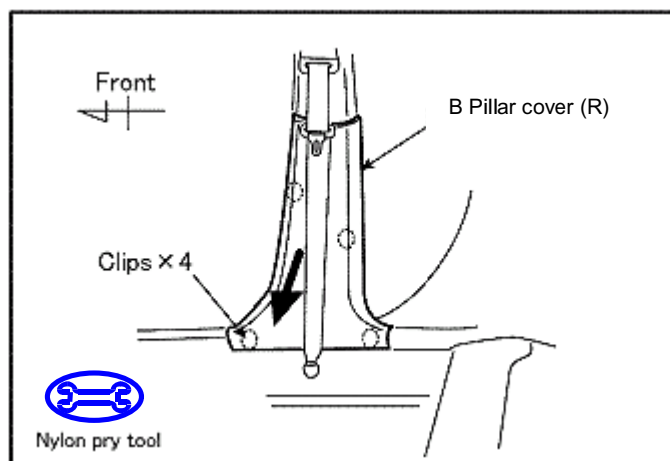


Figure G1

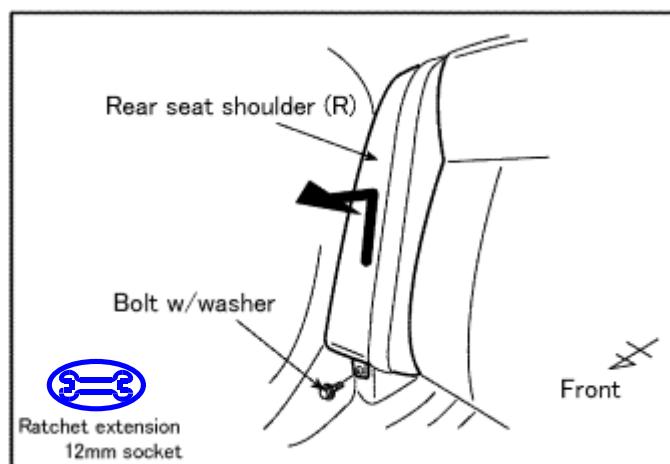


Figure H1

I. Remove the Luggage Finish Plate

1. Remove the trunk floor mat cover located over spare tire.
- ➡ 2. Use Phillips screwdriver to remove screws on two hooks.
- ➡ 3. Use nylon pry tool to disengage clips located luggage finish plate.
4. Remove the luggage finish plate. (Figure I1)

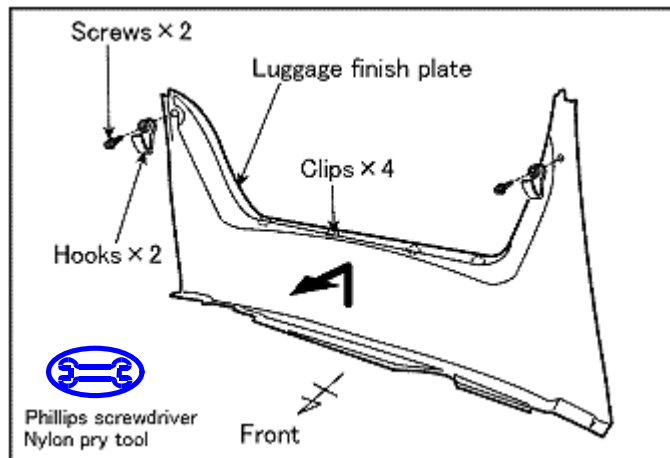


Figure I1

J. Remove the Luggage Side Trim

- ➡ 1. Remove two clips using nylon pry tool. (Figure J1)
2. Remove the luggage side trim. (Figure J1)

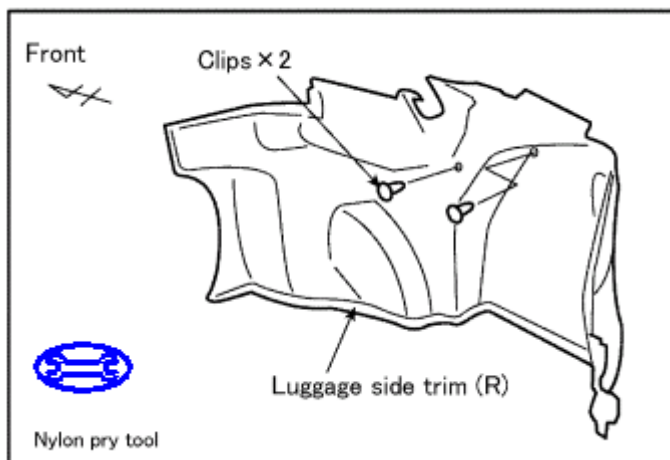


Figure J1

K. Cut the Foam Tape

1. Cut foam tape in sections of approximately 1 inch to provide 15 pieces. (Figure K1)

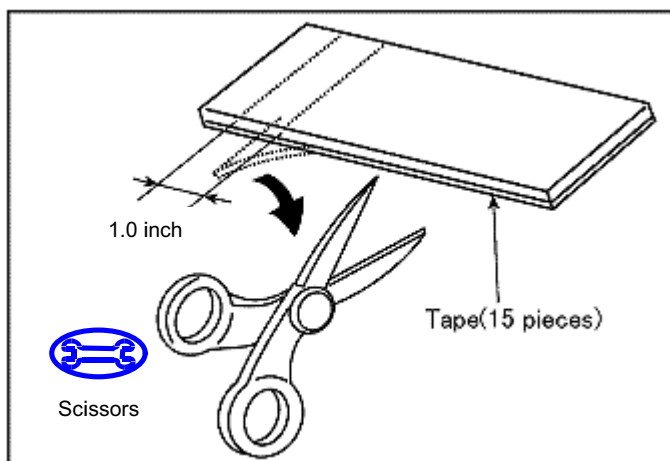


Figure K1

L. Route the Changer Wire Harness through Passenger's Front Foot Well

1. Route changer wire harness up through center cluster to combo unit.
2. Plug 12-pin connector into back of combo unit.
3. Route the other end of changer wire harness along the bottom inside of glove box trim.
4. Continue to route harness around the inside of main vehicle harness located in cowl area.

➡ 5. Continue to route the harness to the B pillar and place harness through white clips. (Figure L1)

➡ 6. Take up slack and place tape on harness in positions shown. (Figure L1)

M. Route the Changer Wire Harness through Passenger's Side B Pillar

➡ 1. Continue to route changer wire through B pillar making sure wire is inside of seat belt receptacle. (Figure M1)

➡ 2. Take up slack and place tape on harness in positions shown. (Figure M1)

N. Route the Changer Wire Harness through Passenger's Side Rear

➡ 1. Route harness under rear seat to over right rear wheel. (Figure N1)

➡ 2. Take up slack and place tape on harness in positions shown. (Figure N1)

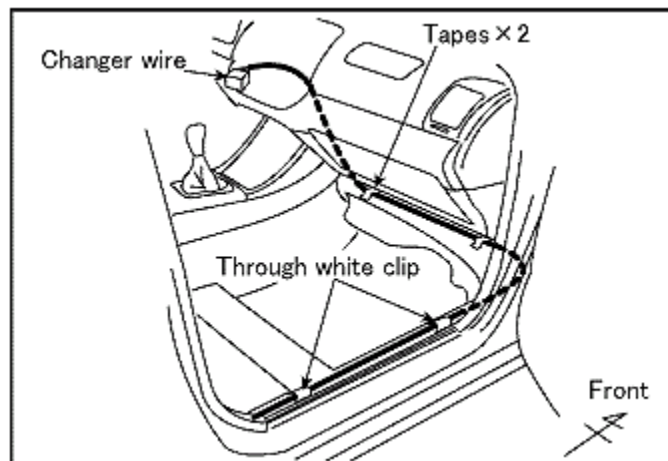


Figure L1

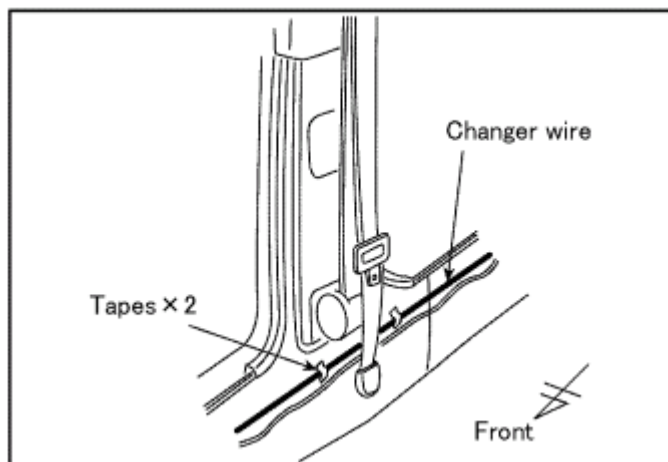


Figure M1

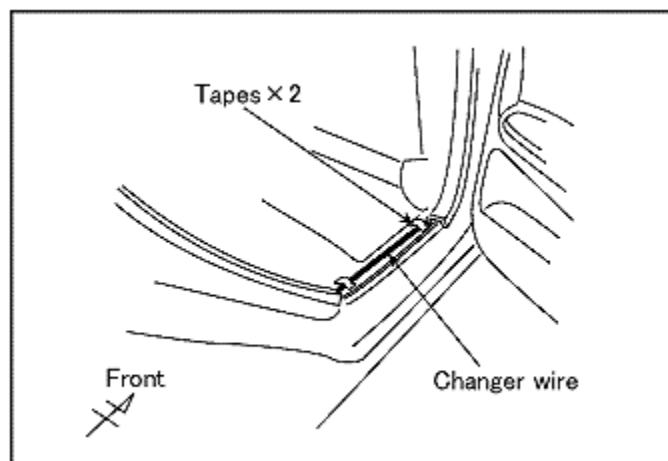


Figure N1

O. Route the Changer Wire Harness through Passenger's Side Rear Seat Shoulder

- ➡ 1. Route Changer wire along rear wheel well and through duct hole to trunk area. (Figure O1)
- ➡ 2. Take up slack and place tape on harness in positions shown. (Figure O1)

P. Route the Changer Wire Harness along Trunk Interior

- ➡ 1. Through the passenger's side luggage interior trim, route the changer wire above trunk mounting bar and along edge in top of trunk housing until the second hole location. (Figure P1)
- ➡ 2. Bundle excess harness and tape to right side in positions shown. (Figure P1)
- ➡ 3. Take up slack and place tape on harness in positions shown, (Figure P1) and safely secure excess with tape behind passenger's side interior trim.

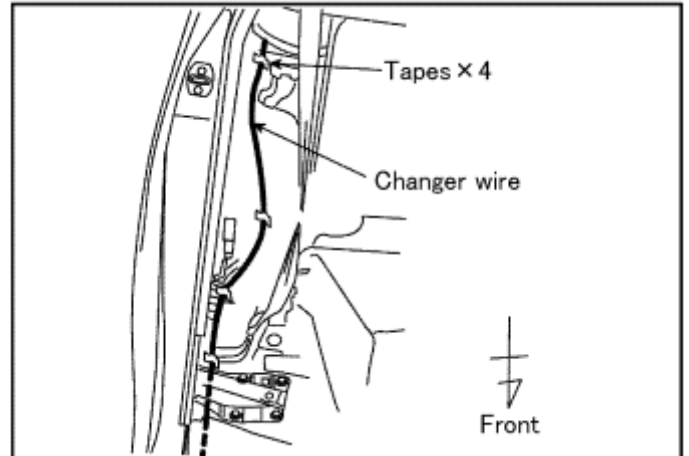


Figure O1

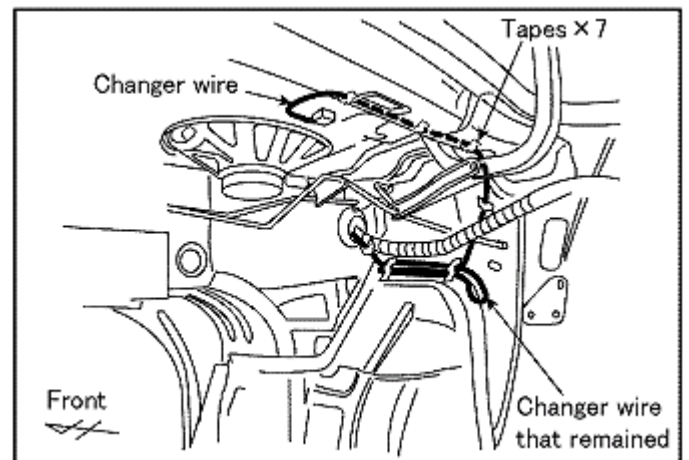
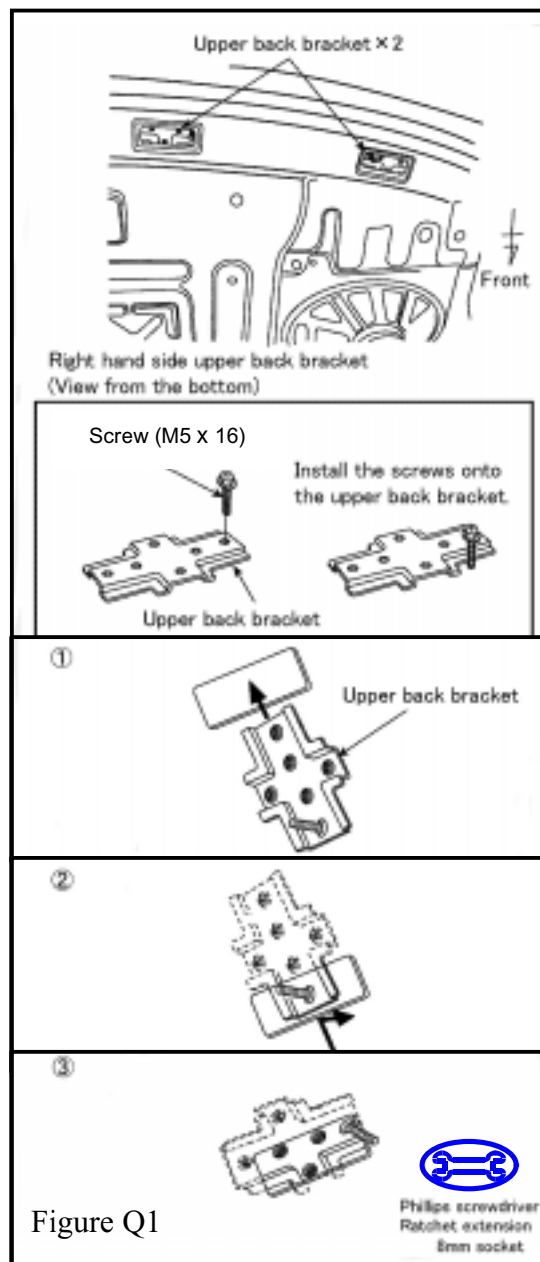


Figure P1

Q. Install the Upper Back Brackets

STOP **NOTE:** Use the M5 x 16 screws for upper back brackets.

1. Assemble screws on the upper back brackets as shown in illustration. (Figure Q1)
2. Place brackets into passenger's side holes located on top of trunk housing. (Figure Q1)



R. Install the Base Bracket to the Upper Back Brackets

-  1. Attach base bracket to upper back bracket by hand tightening nuts and screws. (Figure R1)
-  2. Tighten bolts using 8 mm socket. Be sure there is no more than 4 mm to 5 mm of distance between screw and nut as shown in illustration. (Figure R1)

S. Install the Side Brackets to the Changer Unit



NOTE: Before installing the Changer Unit, change the two "V-H" screws into the "H" (horizontal) position when it is installed horizontally.

1. Using Phillips screwdriver, attach the side brackets to the changer unit. (Figure S1)

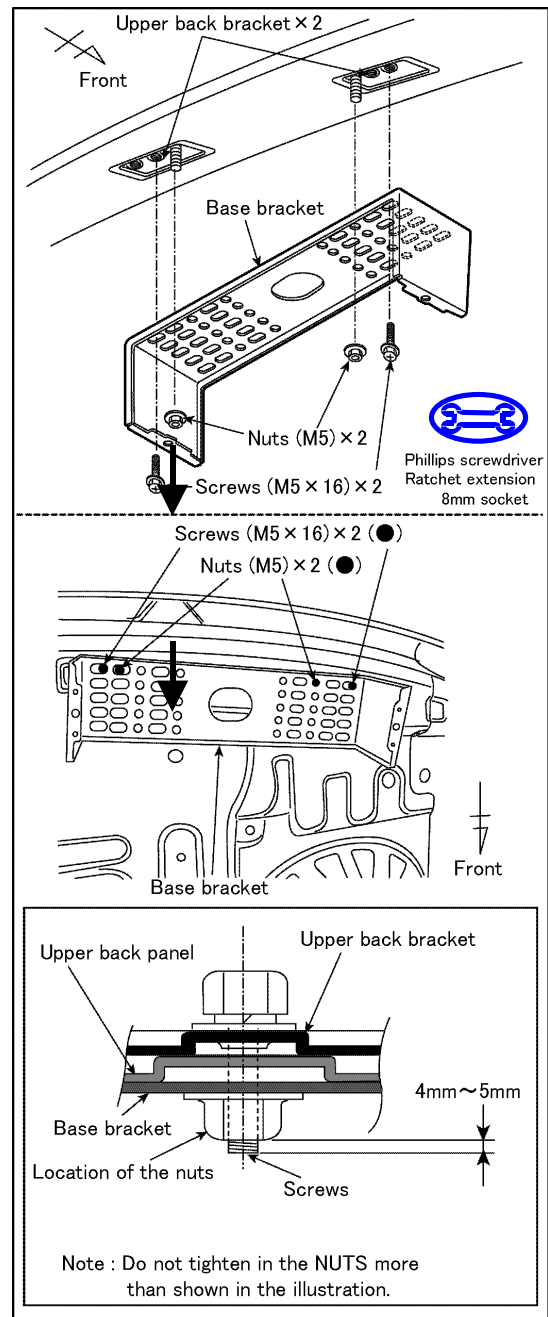


Figure R1

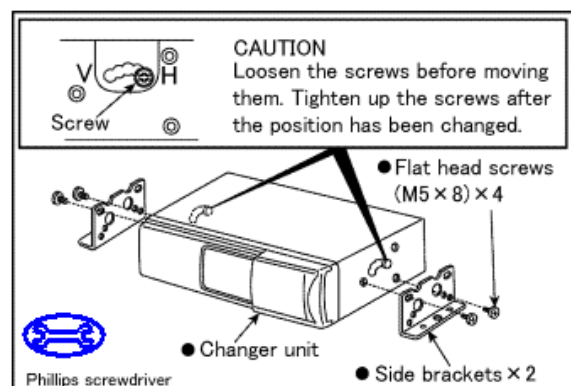


Figure S1

T. Complete Install of Changer Unit

1. Connect the 12-pin changer wire connector to CD changer. (Figure T1)
2. Use 8 mm socket to attach changer unit to base bracket. (Figure T1)

U. Reassemble the Vehicle

1. Reinstall all removed panels and parts. Be sure that all panel clips are engaged properly.
2. Re-connect negative battery terminal with 4.1 N-m (3 lbf-ft) of torque.

NOTE: The sunroof may not operate correctly when the battery has been disconnected (predominately an issue with Japan CBU Camry.)

If this is the case the sunroof needs to be reset.

- 1) For All Japan built (CBU) 2002MY Camry vehicles do the following:

Cut the plastic roof covering using a Nylon Removal Tool or a Plastic squeegee on the right, left, and rear edges of the sunroof.

Then normalize the sunroof as follows:

Push and hold the switch to the "TILT UP" side until the sunroof tilts all the way up and then tilts down a little automatically (approx. 10 mm at the rear).

When completed, make sure the sunroof is completely closed.

- 2) For all North American built 2002MY Camry vehicles, do **NOT** disconnect the battery within 10 seconds of shutting off the ignition switch.

This will prevent the sunroof from needing to be reset.

3. Place Operation Manual into glove box.

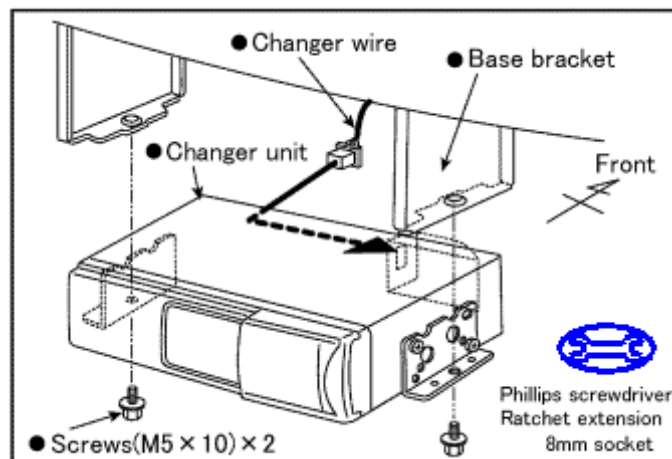


Figure T1



Section III - Functional Verifications

Check:

Look For:

Accessory Function Checks

- ☐ Turn on radio
- ☐ Antenna is functioning
- ☐ CD Changer operation

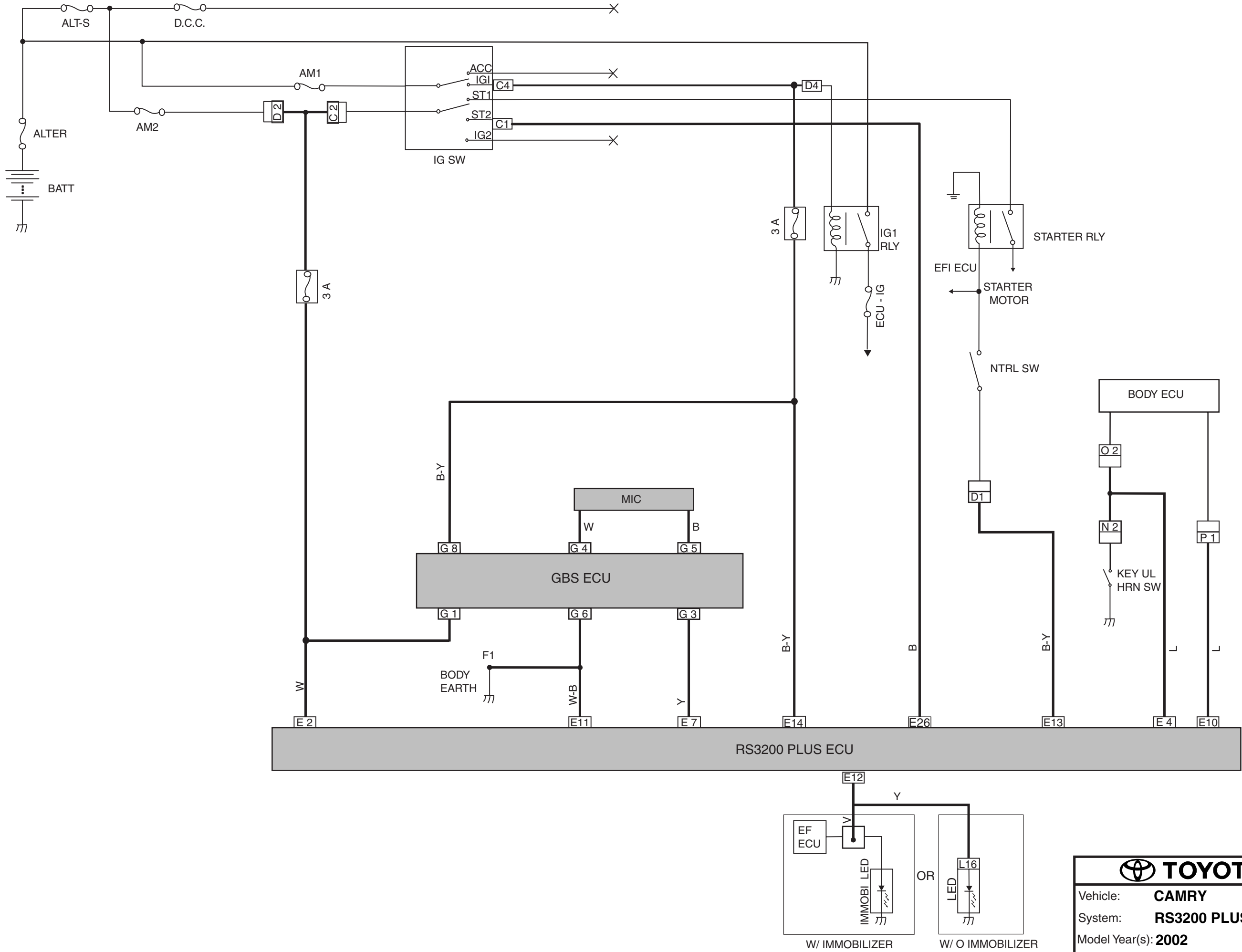
Radio display turns on
Reception of AM/FM stations
CD Changer - Try several different discs and tracks. Verify Changer is functioning properly.

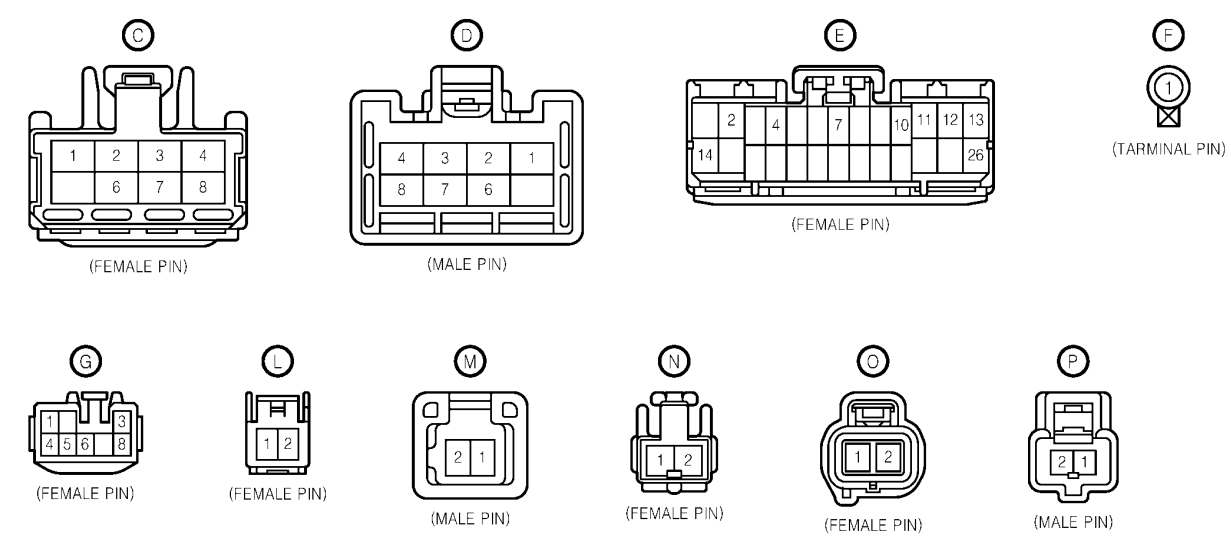
Vehicle Function Checks

- ☐ Power Sunroof (if equipped)
- ☐ Hazard Lights
- ☐ HVAC
- ☐ Clock (if equipped)
- ☐ Rear Window Defogger (if equipped)
- ☐ Seat Belt Warning Light

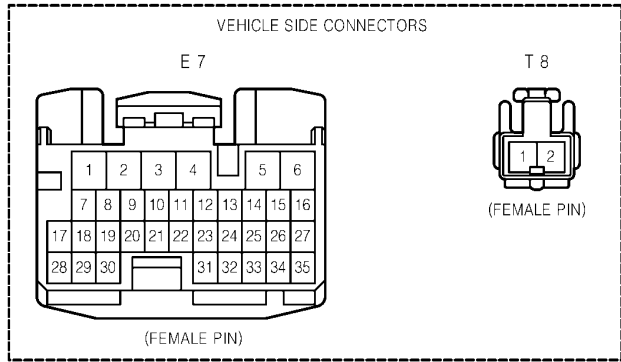
- ☐ Glove Box Light (if equipped)
- ☐ Security, (if equipped)
- ☐ SRS Lamp, (if equipped with passenger side air bag)

Functioning Sunroof.
Functioning Hazard Lights
All HVAC Controls Function
Functioning Clock
Functioning Rear Window Defogger
Functioning Seatbelt Warning Light. If the warning light remains "ON", it may indicate a system malfunction.
Functioning Glove Box Light
Security lamp illuminates (flashes)
SRS Warning lamp illuminates approximately 3 seconds then goes off.





•CAMRY •
RS3200 PLUS
CONNECTORS

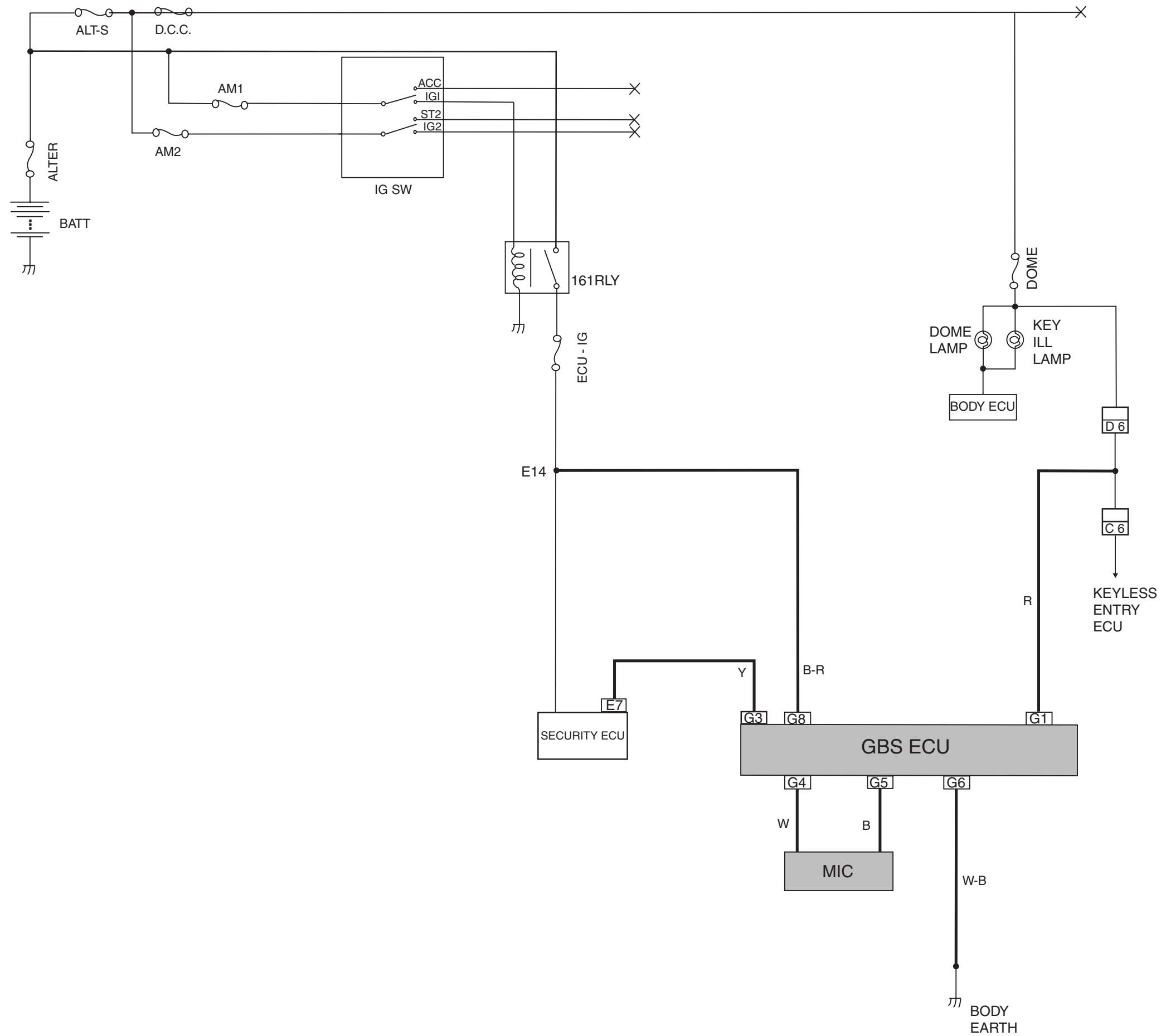


 **TOYOTA**

Vehicle: **CAMRY**

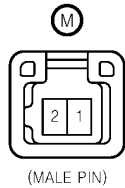
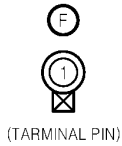
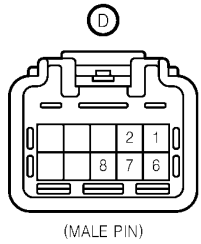
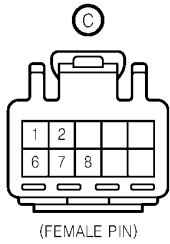
System: **RS3200 PLUS**

Model Year(s): **2002**

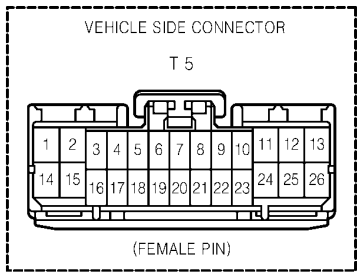


 TOYOTA	
Vehicle:	CAMRY
System:	GBS ADD-ON
Model Year(s):	2002

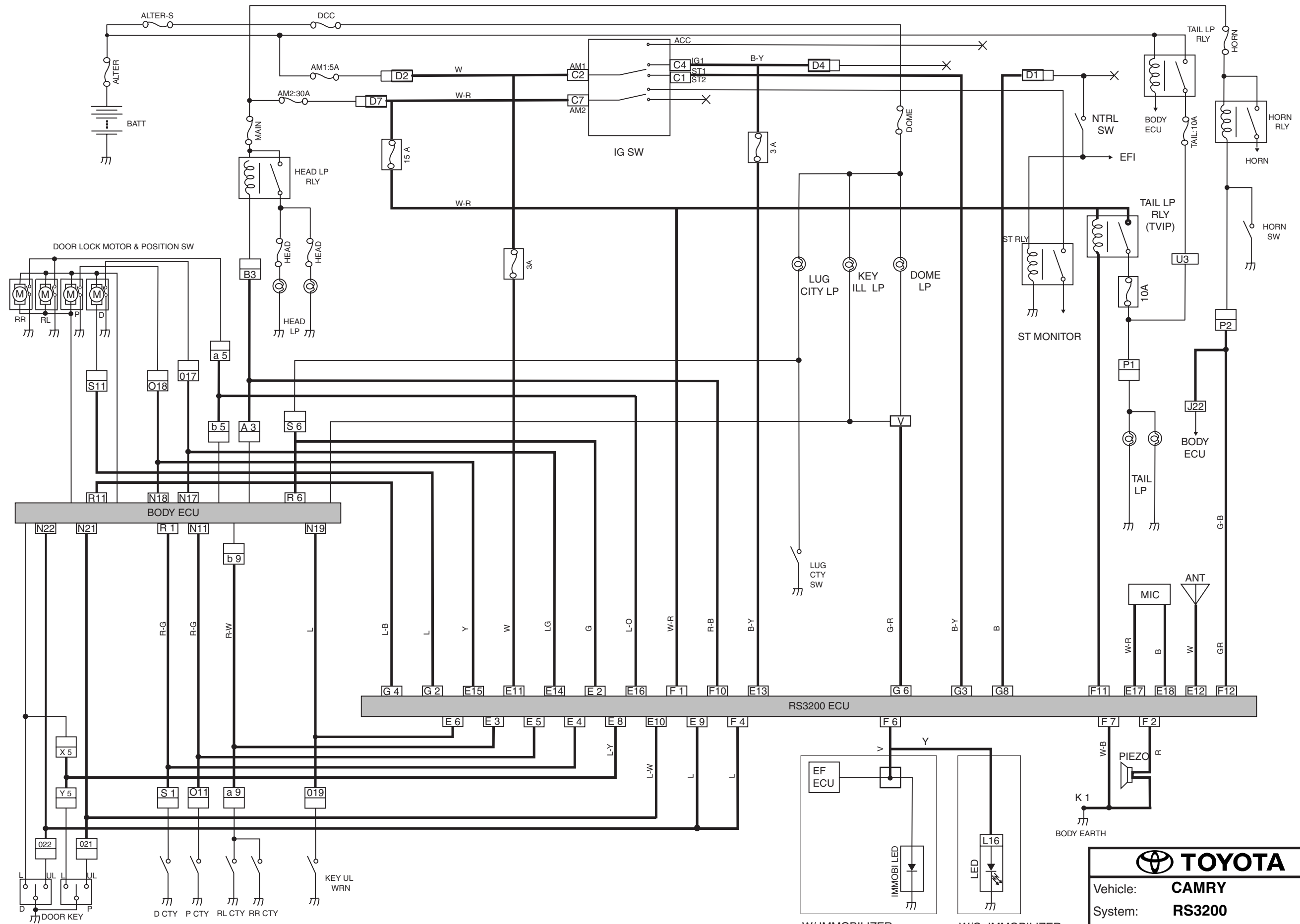
• CAMRY •
GBS ADD-ON EWD



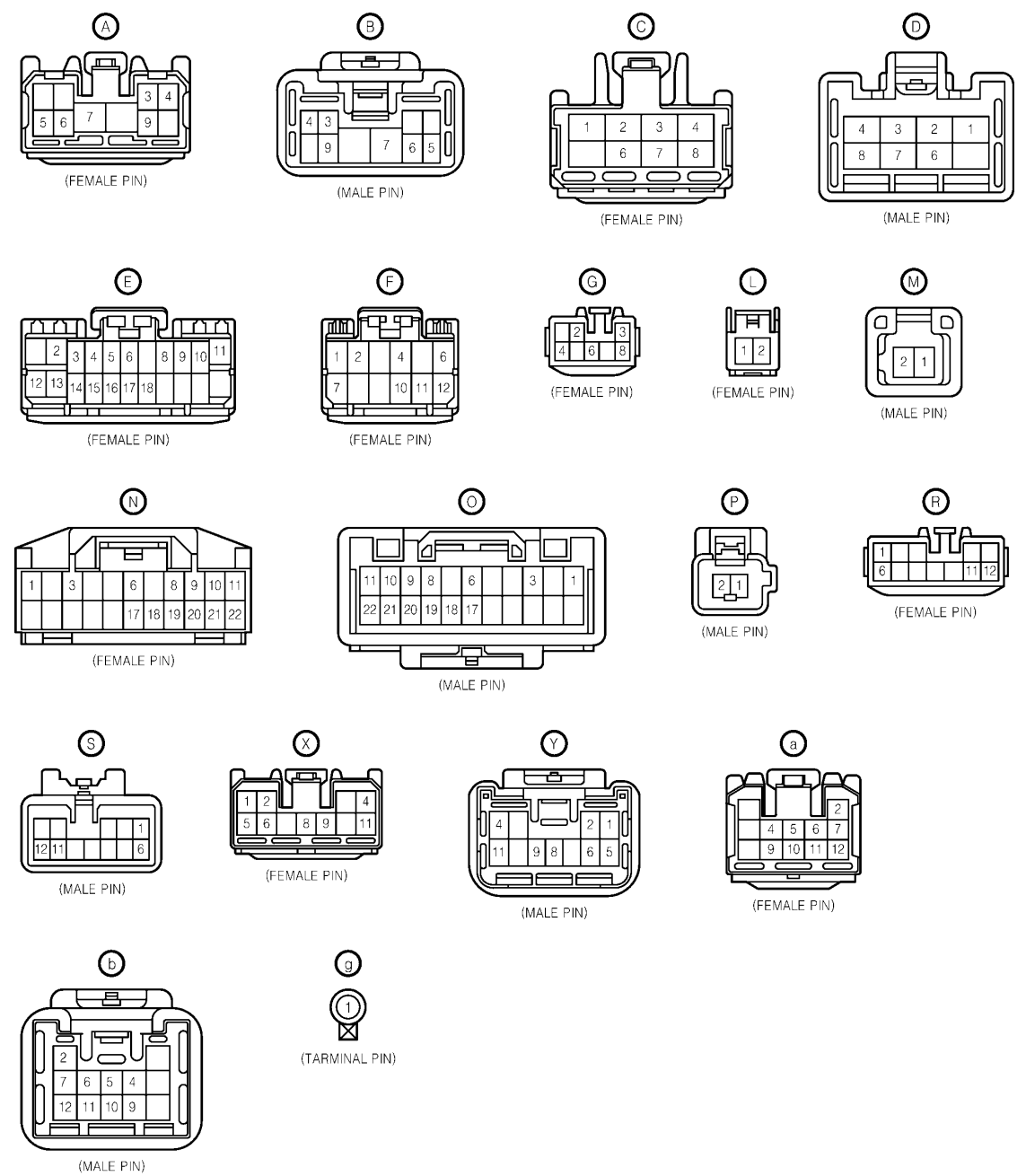
• CAMRY •
GBS ADD-ON
CONNECTORS



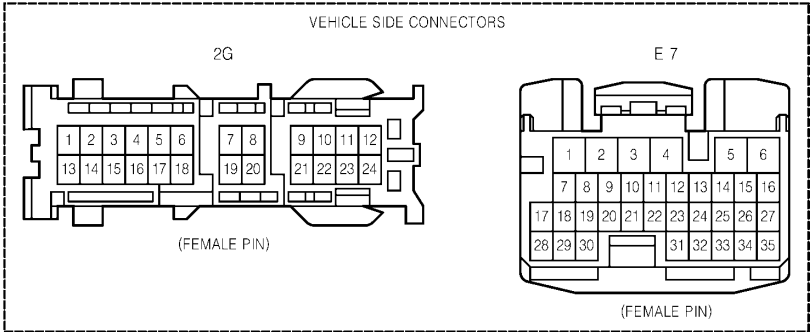
Vehicle: **CAMRY**
System: **GBS ADD-ON**
Model Year(s): **2002**



 TOYOTA	
Vehicle:	CAMRY
System:	RS3200
Model Year(s):	2002



• CAMRY •
RS3200
CONNECTORS



 **TOYOTA**

Vehicle: **CAMRY**

System: **RS3200**

Model Year(s): **2002**

Part Number: 08601-00871

Section I Installation Preparation

Kit Contents

Item #	Quantity Required	Description
1	1	Changer harness
2	1	Changer unit
3	1	Base bracket
4	1	Magazine
5	2	Side brackets
6	2	Upper back brackets

Hardware Bag Contents

Item #	Quantity Required	Description
1	2	M5 Nuts
2	4	M5×8 screws
3	2	M5×10 screws
4	4	M5×16 screws
5	2	Strips of foam tape

Additional Items Required For Installation

Item #	Quantity Required	Description
1	3	Test CDs
2		

Conflicts

Note: In Dash 6 Disc CD Changer (P6)

Recommended Tools

Safety Tools	
Vehicle Protection	Blankets
Hand Protection	Gloves
Special Tools	
None	
Installation Tools	
Phillips Screwdriver	
Socket	8mm
Socket	10mm, 12mm
Ratchet	
Nylon Pry Tool	
Extension	
Torque Wrench	
Scissors	
Special Chemicals	
None	

General Applicability

Note: Cannot be installed on vehicles with factory 6 Disc CD changer.

Recommended Sequence of Application

Item #	Accessory	
1		
2		
3		

*Mandatory

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
	CRITICAL PROCESS: Proceed with caution to ensure a quality installation.
	GENERAL PROCESS: This highlights specific processes to ensure a quality installation.
	TOOLS & EQUIPMENT: This calls out the specific tools and equipment required for this process

Section II Installation Procedure

A. Disassemble Switch Unit and Center Cluster

-  1. Remove negative (-) battery terminal with 10 mm socket before any disassembly starts.
-  2. Be sure to protect removed parts and panels with protection (blankets) during installation.
-  3. Use nylon pry tool to disengage clips at positions 1 and 2, in numerical order shown to the switch unit. Next remove positions 3 and 4. (Figure A1)
-  4. Use nylon pry tool to disengage clips at positions 5 and 6, in numerical order shown to the center cluster. Next remove positions 7 and 8. (Figure A1)

B. Remove the Radio/Combo

-  1. Use 10mm socket and extension to remove screws located on combo. (Figure B1)
2. Remove combo and disconnect connectors and antenna cable.

C. Remove the Front Scuff Plate (R) and Cowl Side Trim (R)

-  1. Use nylon pry tool to disengage clips on front right scuff plate. (Figure C1)
2. Remove front scuff plate. (Figure C1)
3. Remove right cowl side trim nut by turning counter clockwise. (Figure C1)
4. Remove cowl side trim. (Figure C1)

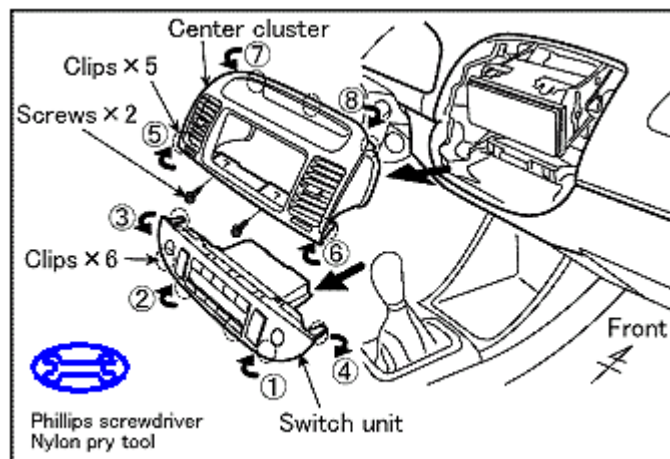


Figure A1

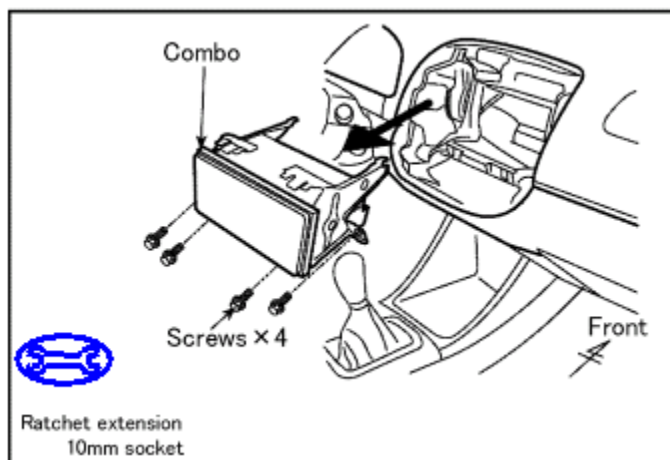


Figure B1

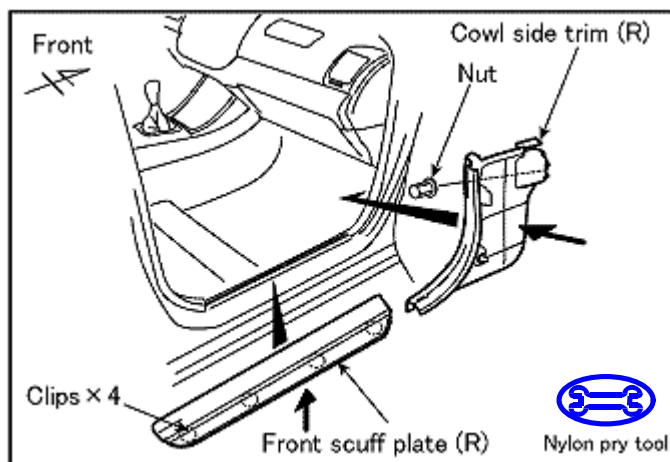


Figure C1

D. Remove the Under Dash Cover and Glove Box

1. Remove the under dash cover

-  i. Use nylon pry tool to disengage clips on under dash cover. (Figure D1)
-  ii. Use nylon removal tool and remove plastic clip in floor carpet.

2. Remove the glove box assembly.

-  i. Remove the 10 mm bolt on lower right side of glove box. (Figure D2).
 -  ii. Remove cap on lower left side of glove box using the small tip NRT to reveal Phillips screw and remove. (Figure D2 inset).
-  3. Remove 3 Phillips screws from top of glove box (Figure D2) and remove glove box.

E. Remove the Rear Seat Cushion

1. Lift rear seat cushion straight up disengages clips located beneath. (Figure E1)
2. Push female seat belt receptacle through seat cushion holes. (Figure E1)
3. Remove rear seat cushion. (Figure E1)

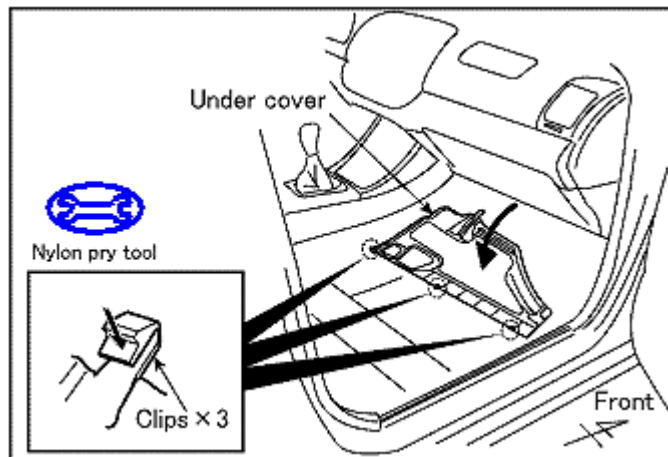


Figure D1

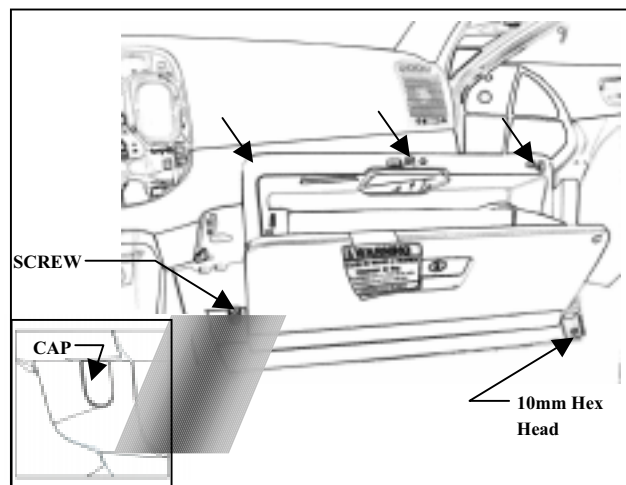


Figure D2



Ratchet 10 mm Socket
Phillips Screwdriver

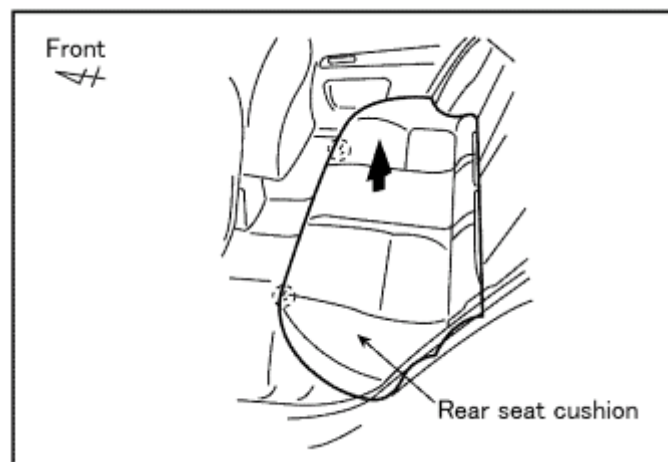


Figure E1

F. Remove the Rear Scuff Plate

-  1. Use nylon pry tool to disengage clips on rear right scuff plate. (Figure F1)
2. Remove the rear scuff plate. (Figure F1)

G. Remove the B Pillar Cover

-  1. Use nylon pry tool to disengage clips on B pillar cover. (Figure G1)
2. Remove the B pillar cover. (Figure G1)

H. Remove the Rear Seat Shoulder (R)

-  1. Use 12mm socket and extension to remove bolts located on rear seat shoulder. (Figure H1)
2. Remove the rear seat shoulder (R). (Figure H1)

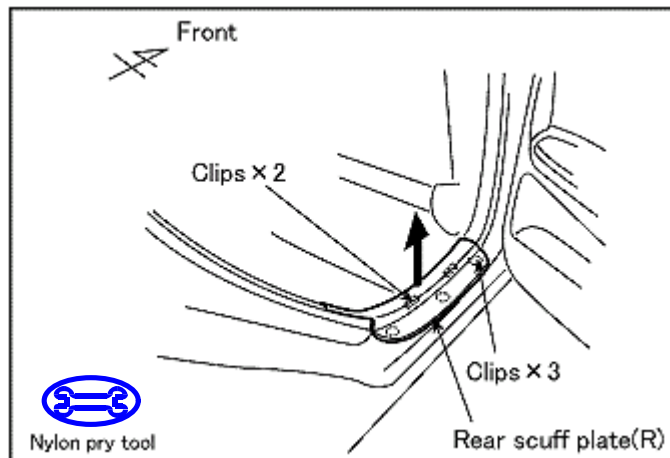


Figure F1

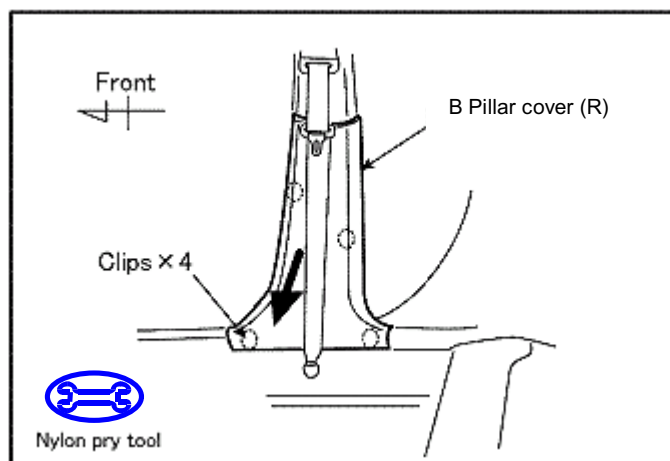


Figure G1

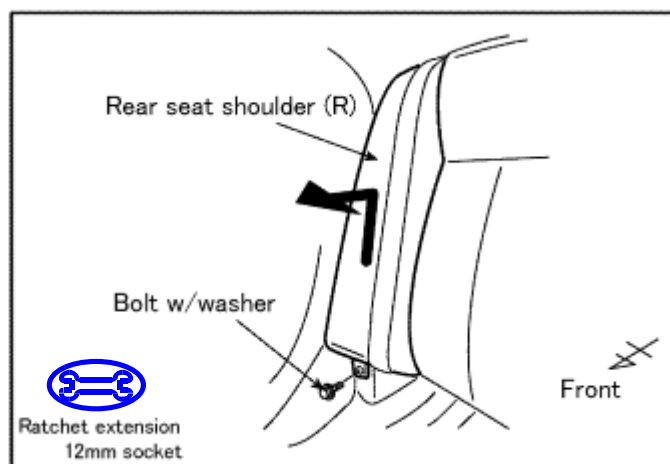


Figure H1

I. Remove the Luggage Finish Plate

1. Remove the trunk floor mat cover located over spare tire.
-  2. Use Phillips screwdriver to remove screws on two hooks.
-  3. Use nylon pry tool to disengage clips located luggage finish plate.
4. Remove the luggage finish plate. (Figure I1)

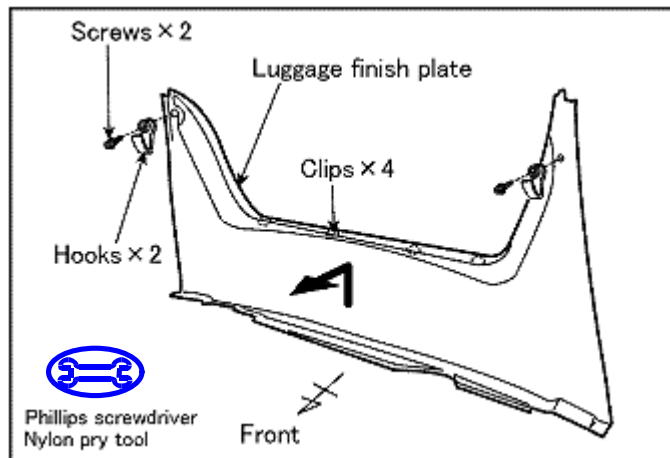


Figure I1

J. Remove the Luggage Side Trim

-  1. Remove two clips using nylon pry tool. (Figure J1)
2. Remove the luggage side trim. (Figure J1)

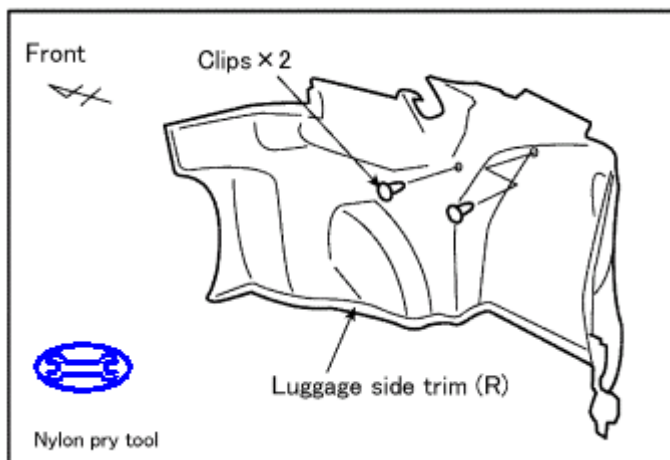


Figure J1

K. Cut the Foam Tape

1. Cut foam tape in sections of approximately 1 inch to provide 15 pieces. (Figure K1)

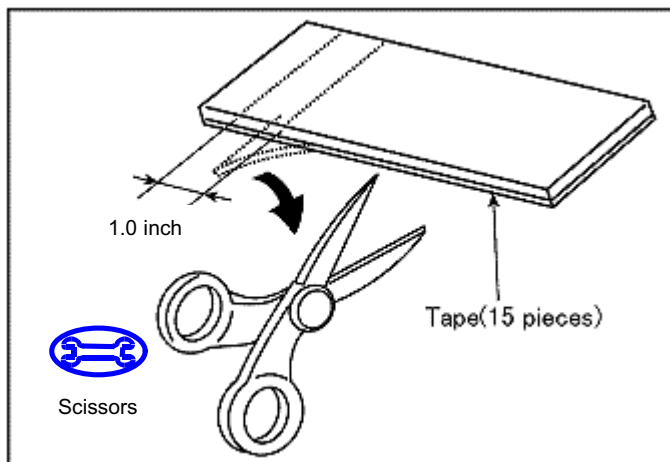


Figure K1

L. Route the Changer Wire Harness through Passenger Front Foot Well

1. Route changer wire harness up through center cluster to combo unit.
2. Plug 12-pin connector into back of combo unit.
3. Route the other end of changer wire harness along the bottom inside of glove box trim.
4. Continue to route harness around the inside of main vehicle harness located in cowl area.

 5. Continue to route the harness to the B pillar and place harness through white clips. (Figure L1)

 6. Take up slack and place tape on harness in positions shown. (Figure L1)

M. Route the Changer Wire Harness through Passenger Side B Pillar

 1. Continue to route changer wire through B pillar making sure wire is inside of seat belt receptacle. (Figure M1)

 2. Take up slack and place tape on harness in positions shown. (Figure M1)

N. Route the Changer Wire Harness through Passenger Side Rear

 1. Route harness under rear seat to over right rear wheel. (Figure N1)

 2. Take up slack and place tape on harness in positions shown. (Figure N1)

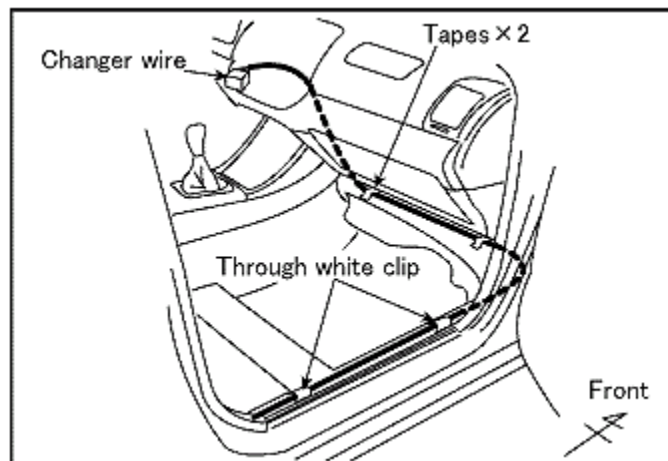


Figure L1

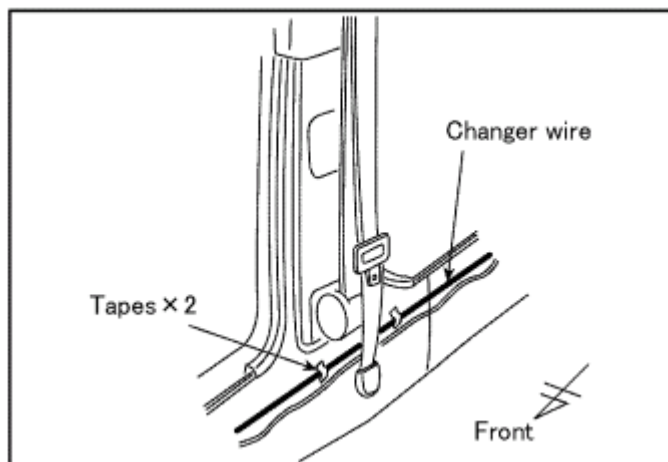


Figure M1

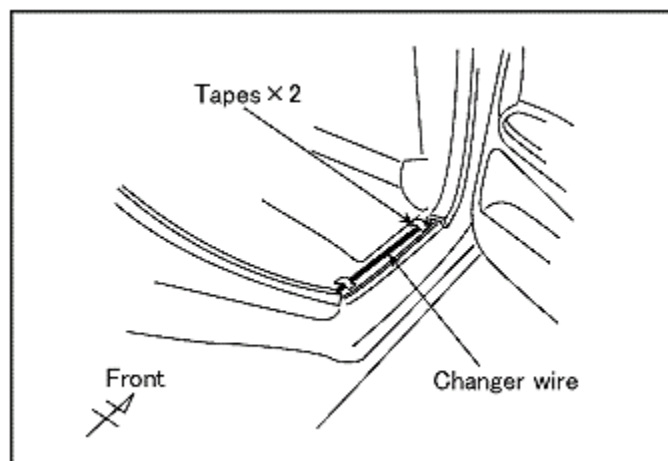


Figure N1

O. Route the Changer Wire Harness through Passenger Side Rear Seat Shoulder

-  1. Route Changer wire along rear wheel well and through duct hole to trunk area. (Figure O1)
-  2. Take up slack and place tape on harness in positions shown. (Figure O1)

P. Route the Changer Wire Harness along Trunk Interior

-  1. Through the passenger  side luggage interior trim, route the changer wire above trunk mounting bar and along edge in top of trunk housing until the second hole location. (Figure P1)
-  2. Bundle excess harness and tape to right side in positions shown. (Figure P1)
-  3. Take up slack and place tape on harness in positions shown, (Figure P1) and safely secure excess with tape behind passenger  side interior trim.

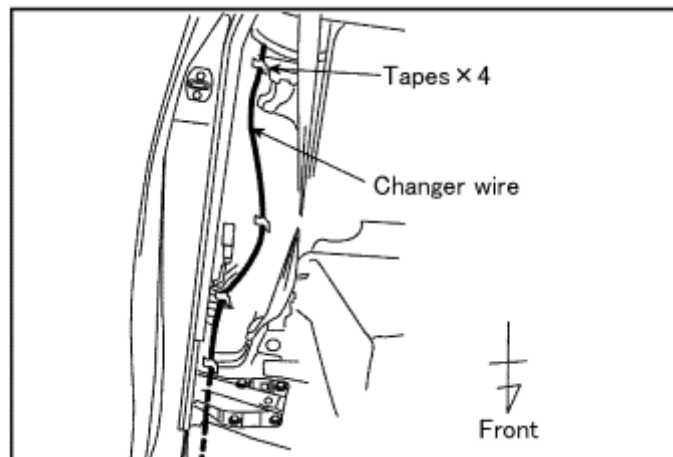


Figure O1

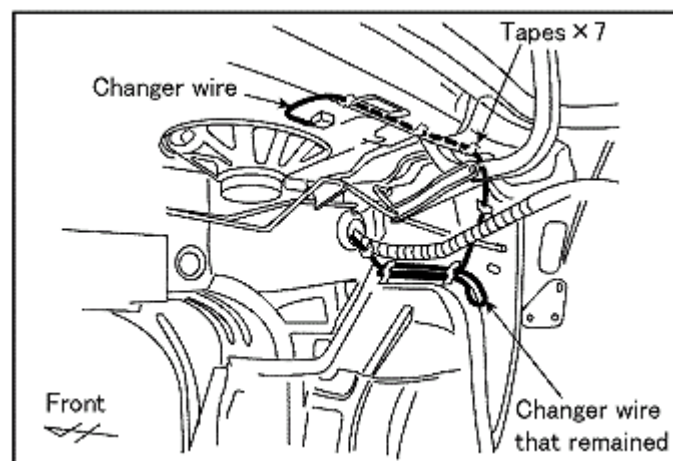
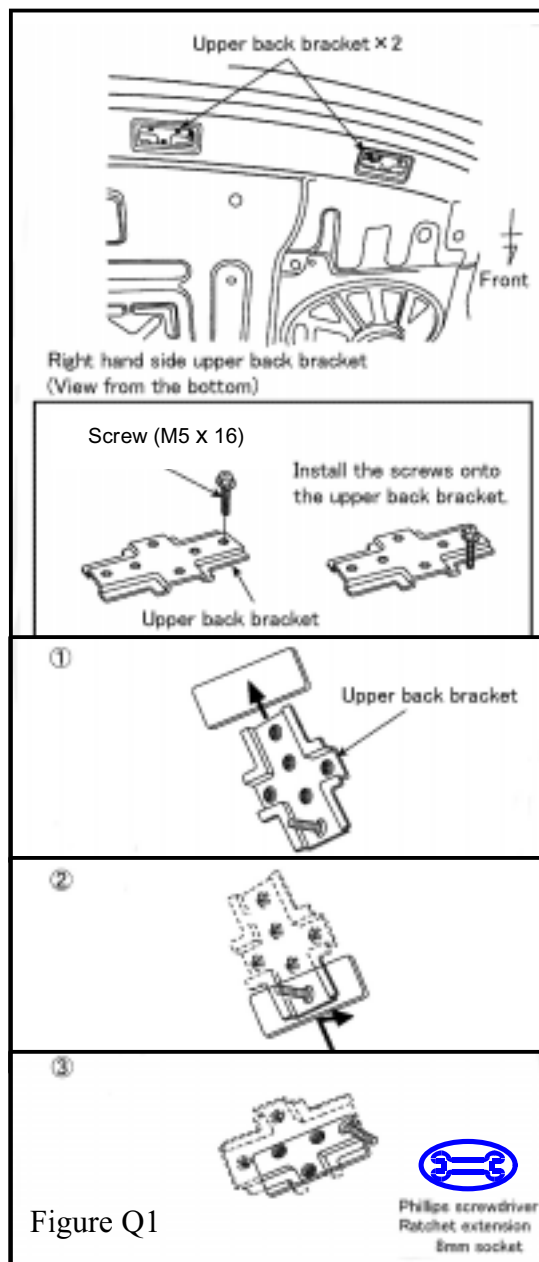


Figure P1

Q. Install the Upper Back Brackets

 **NOTE:** Use the M5 x 16 screws for upper back brackets.

1. Assemble screws on the upper back brackets as shown in illustration. (Figure Q1)
2. Place brackets into passenger  side holes located on top of trunk housing. (Figure Q1)



R. Install the Base Bracket to the Upper Back Brackets

-  1. Attach base bracket to upper back bracket by hand tightening nuts and screws. (Figure R1)
-  2. Tighten bolts using 8mm socket. Be sure there is no more than 4mm to 5mm of distance between screw and nut as shown in illustration. (Figure R1)

S. Install the Side Brackets to the Changer Unit



NOTE: Before installing the Changer Unit, change the two  screws into the  (horizontal) position when it is installed horizontally.

1. Using Phillips screwdriver, attach the side brackets to the changer unit. (Figure S1)

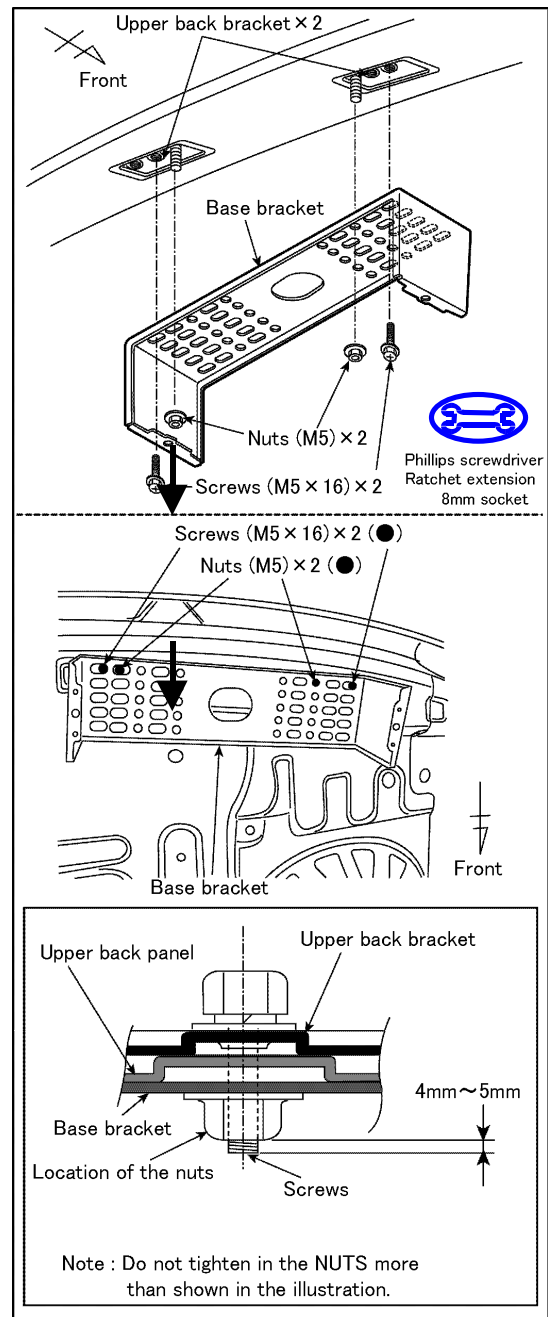


Figure R1

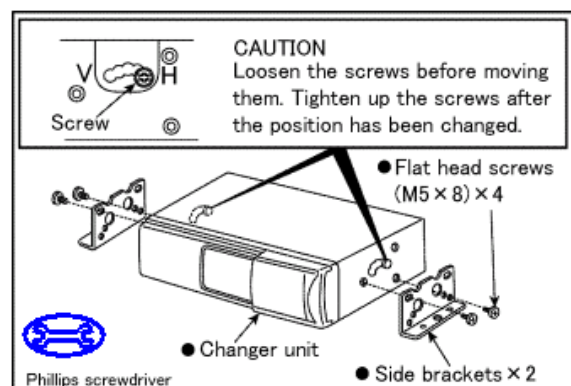


Figure S1

T. Complete Install of Changer Unit

1. Connect the 12-pin changer wire connector to CD changer. (Figure T1)
2. Use 8mm socket to attach changer unit to base bracket. (Figure T1)

U. Reassemble the Vehicle

- ⚠ 1. Reinstall all removed panels and parts. Be sure that all panel clips are engaged properly.
- ⚠ 2. Re-connect negative battery terminal with 4.1 Nm (3 lbf·ft) of torque.

NOTE: The sunroof may not operate correctly when the battery has been disconnected (predominately an issue with Japan CBU Camry.)

If this is the case the sunroof needs to be reset.

- 1) For All Japan built (CBU) 2002MY Camry vehicles do the following:

Cut the plastic roof covering using a Nylon Removal Tool or a Plastic squeegee on the right, left, and rear edges of the sunroof.

Then normalize the sunroof as follows:

Push and hold the switch to the "TILT UP" side until the sunroof tilts all the way up and then tilts down a little automatically (approx. 10 mm at the rear).

When completed, make sure the sunroof is completely closed.

- 2) For all North American built 2002MY Camry vehicles, do **NOT** disconnect the battery within 10 seconds of shutting off the ignition switch.

This will prevent the sunroof from needing to be reset.

- ⚠ 3. Place Operation Manual into glove box.

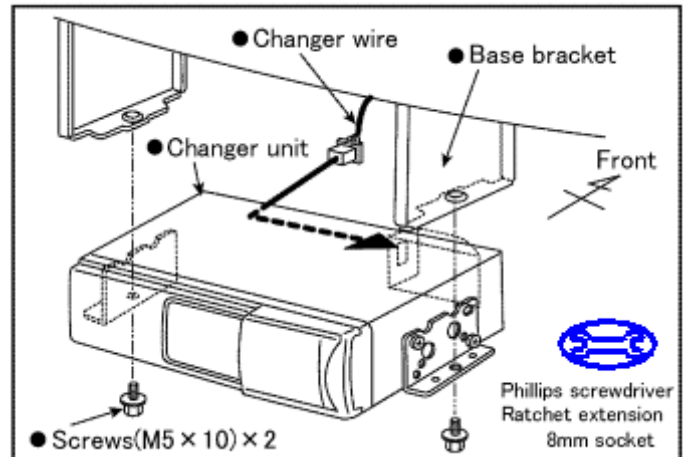


Figure T1



Section III Ⅲ Functional Verifications

Check: _____

Look For: _____

Accessory Function Checks

- ☐ Turn on radio
- ☐ Antenna is functioning
- ☐ CD Changer operation

Radio display turns on
Reception of AM/FM stations
CD Changer Ⅲ Try several different discs and tracks. Verify Changer is functioning properly.

Vehicle Function Checks

- ☐ Power Sunroof (if equipped)
- ☐ Hazard Lights
- ☐ HVAC
- ☐ Clock (if equipped)
- ☐ Rear Window Defogger (if equipped)
- ☐ Seat Belt Warning Light

- ☐ Glove Box Light (if equipped)
- ☐ Security, (if equipped)
- ☐ SRS Lamp, (if equipped with passenger side air bag)

Functioning Sunroof.
Functioning Hazard Lights
All HVAC Controls Function
Functioning Clock
Functioning Rear Window Defogger
Functioning Seatbelt Warning Light. If the warning light remains "ON", it may indicate a system malfunction.
Functioning Glove Box Light
Security lamp illuminates (flashes)
SRS Warning lamp illuminates approximately 3 seconds then goes off.

Part Number: PT233-33020

Section I Installation Preparation

Kit Contents

Item #	Quantity Req'd.	Description
1	1	Subwoofer Assy
2	1	Wire Harness

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	7	Wire Ties
2	1	50mm x 50 mm Butyl Rubber Pad
3	1	Seat Clip
4	3	3  x 6  Foam Tape
5	1	Operation Manual

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1		
2		
3		

Conflicts

Note:- Premium Audio System, Passenger Power Seat

Recommended Tools

Safety Tools	
Vehicle Protection	Blankets
Hand Protection	Gloves
Special Tools	
Small Tip Nylon Pry Tool	
Installation Tools	
Phillips Screwdriver	
Socket	10 mm, 14mm
Ratchet	
Extension	6 in.
Nylon Pry Tool	
Side Cutter	
Torque Wrench	3 lbf•ft, 27 lbf•ft
Razor Knife	
Special Chemicals	
Cleaner	3M™ Prep Solvent-70

General Applicability

Note:- LE,SE

Recommended Sequence of Application

Item #	Accessory	
1	EC Mirror	
2	TVIP	
3	Sub Woofer	

*Mandatory

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
	CRITICAL PROCESS: Proceed with caution to ensure a quality installation.
	GENERAL PROCESS: This highlights specific processes to ensure a quality installation.
	TOOLS & EQUIPMENT: This calls out the specific tools and equipment required for this process

Section II Installation Procedure



NOTE: For vehicles equipped with side impact air bags  before disconnecting the SRS connector located under passenger seat, wait 90 seconds minimum after battery disconnection.

A. Remove Center Cluster and Radio/Combo



1. Disconnect negative battery cable before any disassembly starts.



2. Place all removed parts on protected surface.

3. Remove AC/Heat control panel (Step 1 in Figure A1). Pry four clips using nylon pry tool. Then disconnect wires from AC/Heat controls. Clip location is depicted by arrows in Figure A1.

4. Remove AC Duct faceplate (Step 2 in Figure A1). Disconnect clock wire harness.

5. Use 10mm socket to remove four bolts on Radio/Combo, disconnect wires and remove Radio/Combo.

B. Remove the Scuff Plate and Kick Panel

1. Remove scuff plate using nylon pry tool as indicated by arrows in Figure B1.

2. Remove under dash cover by pressing on the indented areas (3 places) as indicated in Figure B2 and then pulling in a downward motion.

3. Remove kick panel using pry tool making sure to unscrew nut as shown as shown in Figure B3

4. Remove kick panel as shown.

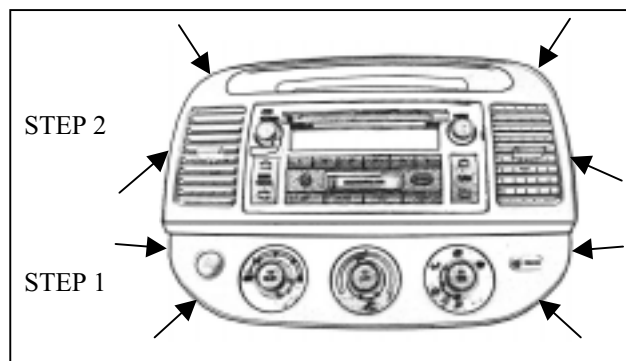


Figure A1



Nylon Pry Tool

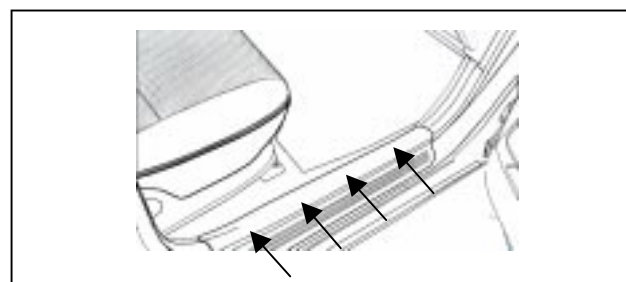


Figure B1



Nylon Pry Tool

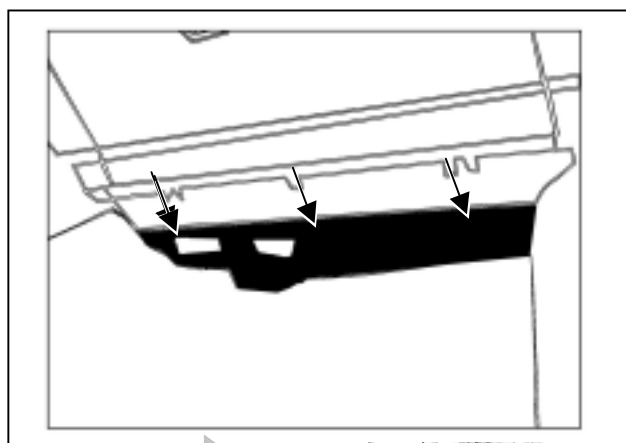


Figure B2

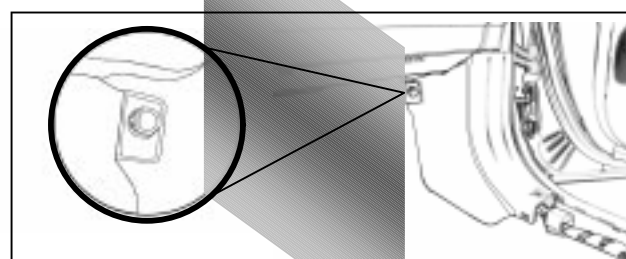


Figure B3



Nylon Pry Tool

C. Remove the Glove Compartment

1. Remove the bolt on lower right side of glove box. (Figure C1).
2. Remove cap on lower left side of glove box using the small tip NRT to reveal Phillips screw and remove. (Figure C1 inset).
3. Remove 3 Phillips screws from top of glove box. (Figure C1).

D. Prepare Passenger Seat

1. Remove the two forward seat bolts using 14mm socket. Tilt seat forward and slide forward.
2. Remove rear bolt covers.
3. Remove the 2 rear bolts.



NOTE: Before disconnecting the SRS connector located under the passenger seat, if equipped, ensure 90 seconds has passed since removing battery negative cable.



4. Apply vehicle protection to the center console area and tilt the seat back (be careful not to scratch vehicle and pull on wire harness), revealing bottom of seat and disconnect the connectors depicted in the circled area and remove the seat clip depicted by the arrow in Figure D1. A replacement clip is in the kit.

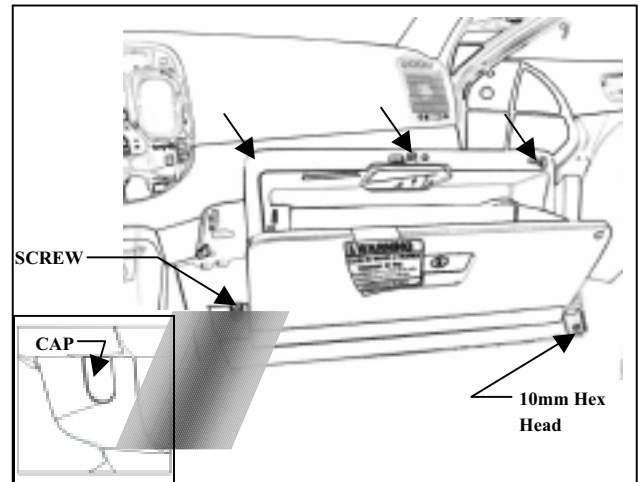


Figure C1



Ratchet 10 mm Socket
Phillips Screwdriver

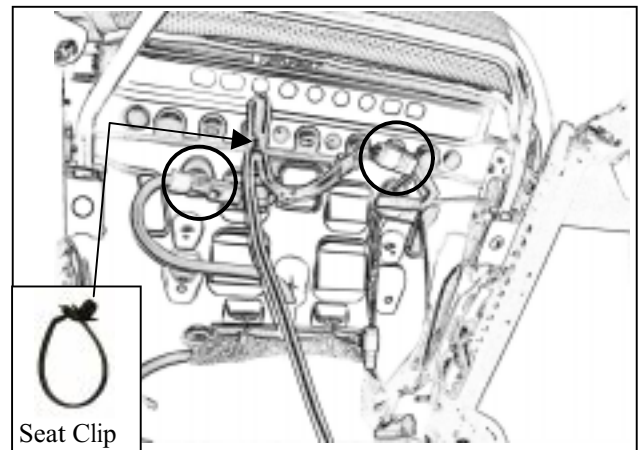


Figure D1

E. Route Wire Harness

1. Starting under the passenger seat, leave 3'-4' out of the carpet hole.
2. Route wire harness along same path as seat harness under the carpet until you get to scuff plate. Then route wire harness, using wire tie to fix bend, under the scuff plate on the outside of vehicle, use the existing clips to secure the wire harness along the scuff plate. (Figure E1)

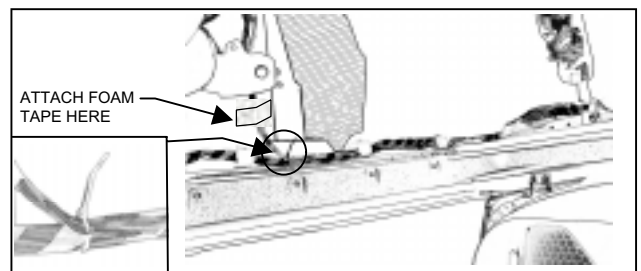
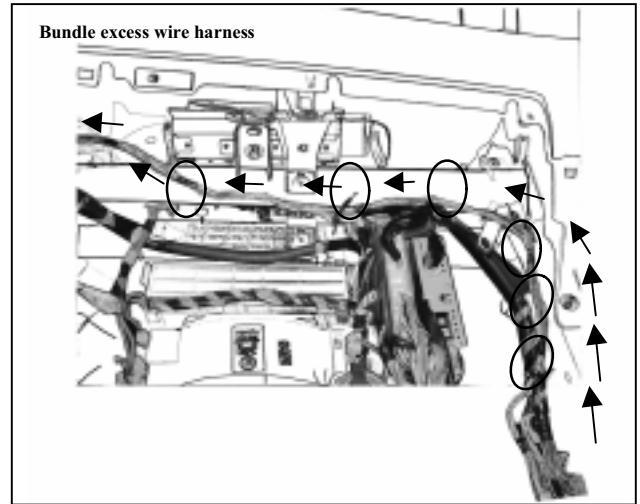
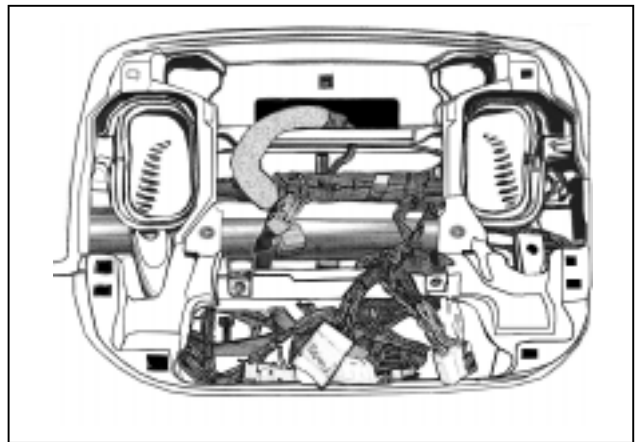


Figure E1

Section II Installation Procedure

-  3. Route wire harness from scuff plate clips up through the glove compartment to back of head unit. (See Figure E2)
-  4. Route wire harness through center cluster as shown in Figure E3.
-  5. Secure the wire harness using one foam tape and one wire tie as indicated in Figure E1.
-  6. Secure the wire harness using the six wire ties as indicated by the circled areas in Figure E2.
-  7. Bundle any excess wire harness with the wire tie closest to the radio (Figure E2).
-  8. Use the T-connection plus 10 pin connector and plug into back of radio. Wrap the loose connectors with foam tape and wrap the fuse to the main harness with foam tape.
- 9. Clip the wire ties.

**Figure E2****Figure E3**

F. Install Sub Woofer

1. Place subwoofer in vehicle (Figure F1). Align front two holes in front bracket to front locator pin holes in vehicle seat floor.
-   2. Using a razor knife, cut the carpet and foam padding as indicated by dashed line in Figure F2.
3. Remove the subwoofer from the vehicle.
4. Lift the flap of carpet/padding that was cut to expose the floor of the vehicle.
-  5. Clean floor of vehicle to remove dust and oils. Peel off paper coating from one side of butyl rubber adhesive and attach to rear of subwoofer bracket (Figure F3). Then install subwoofer in vehicle using front locator pins as guides and connect the wire harness.
-  6. Lower seat to original position, making sure the seat locator pins go through the front brackets and into the floor holes.
-  7. Hand start the seat bolts and then torque to 37 N·m (27 lbf·ft)

G. Reassemble Vehicle.

1. When re-installing the radio, hand start the bolts before using a wrench.
-  2. Re-install all removed panels and parts. Be sure all panel clips are engaged properly.
-  3. Re-connect negative battery terminal with 4.1 Nm (3 lbf·ft). of torque.

NOTE: The sunroof may not operate correctly when the battery has been disconnected (predominately an issue with Japan CBU Camry.)

If this is the case the sunroof needs to be reset.

- 1) For all Japan built (CBU) 2002MY Camry vehicles do the following:

Cut the plastic roof covering using a Nylon Removal Tool or a Plastic squeegee on the right, left, and rear edges of the sunroof.

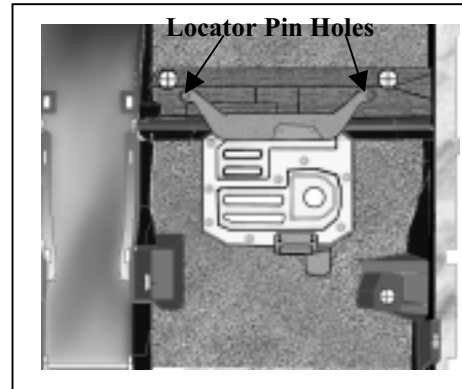


Figure F1

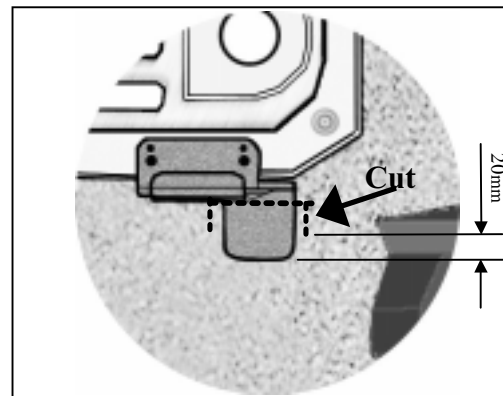


Figure F2

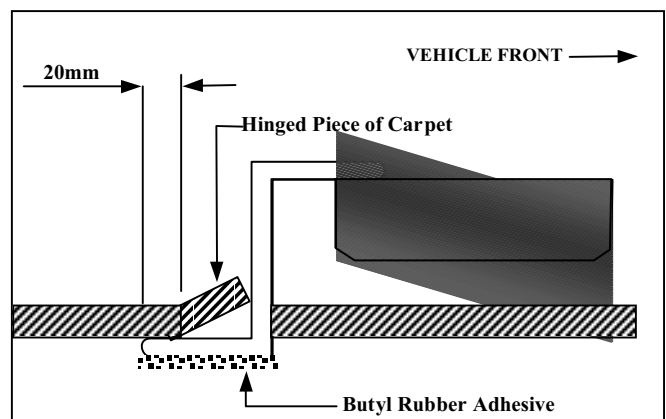


Figure F3

Then normalize the sunroof as follows:

Push and hold the switch to the ☐TILT UP☐ side until the sunroof tilts all the way up and then tilts down a little automatically (approx. 10 mm at the rear).

When completed, make sure the sunroof is completely closed.

- 2) For all North American built 2002MY Camry vehicles, Do NOT disconnect the battery within 10 seconds of shutting off the ignition switch.
- 3) This will prevent the sunroof from needing to be reset.



- 4) Place Operation Manual into glove box.



Section III Functional Verifications

Check: _____

Look For: _____

Accessory Function Checks

- ☐ Turn on radio
- ☐ Antenna is functioning
- ☐ Subwoofer operation

Radio display turns on
Reception of AM/FM stations
Subwoofer  Listen to subwoofer to make sure it is functioning properly or by feeling the subwoofer for vibration

Vehicle Function Checks

- ☐ Power Sunroof (if equipped)
- ☐ Hazard Lights
- ☐ HVAC
- ☐ Clock (if equipped)
- ☐ Rear Window Deffogger (if equipped)
- ☐ Seat Belt Warning Light

- ☐ Glove Box Light (if equipped)
- ☐ Security, (if equipped)
- ☐ SRS Lamp, (if equipped with passenger side air bag)

Functioning Sunroof.
Functioning Hazard Lights
All HVAC Controls Function
Functioning Clock
Functioning Rear Window Deffogger
Functioning Seatbelt Warning Light. If the warning light remains "ON", it may indicate a system malfunction.
Functioning Glove Box Light
Security lamp illuminates (flashes)
SRS Warning lamp illuminates approximately 3 seconds then goes off

Section I - Installation Preparation

Part Number: 08586-3T920

Section I - Installation Preparation

Kit Contents

Item #	Quantity Req'd.	Description
1	1	Wire Harness
2	1	ECU Mounting Bracket
3	1	Microphone
4	1	V3 ECU
5	2	Remote Control Transmitters
6	1	Piezo Buzzer
7	2	Butyl Tapes

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	35	Medium Wire Ties
2	5	Large Wire Ties
3	4	Large Foam Tape Strips (2pcs.)
4	4	Small Foam Tape Strips
5	1	Bolt
6	4	Splicing Connectors
7	1	Owner's Manual
8	1	Warranty Card
9	1	Caution Card
10	2	Warning Labels

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1	1	Console Panel Kit P/N 08192-3T840 NOTE: Only requires for vehicles without factory immobilizer.

Conflicts

Note: May not be installed in vehicles with factory keyless entry.

Recommended Tools

Safety Tools	
Safety Glasses	
Safety Gloves	(Optional)
Vehicle Protection	Blankets, Part Boxes
Special Tools	
None	
Installation Tools	
Screwdriver	Jeweler's
Screwdriver	Phillips Head #2
Screwdriver	Flat Blade - Small
Socket	10 mm
Pneumatic/Electric Wrench	
Wrench	10 mm
Torque Wrench	36 lbf-in

Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST # 00002-06001-01
Side Cutters	
Pliers	
Cable Routing Wire	Fish Tape
Special Chemicals	
Cleaning Fluid	3M™ Prep Solvent-70

General Applicability

2003 2 Camry with power door locks, only.

Recommended Sequence of Application

Item #	Accessory	

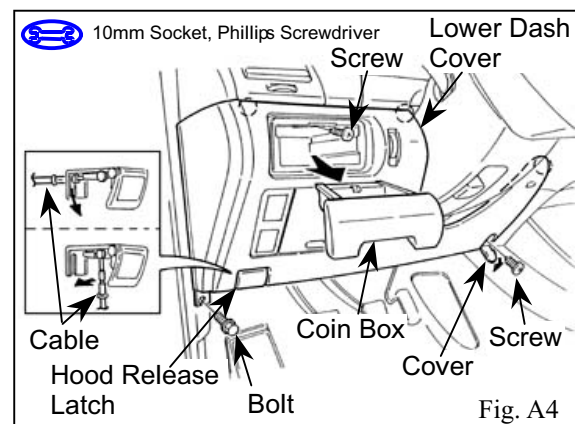
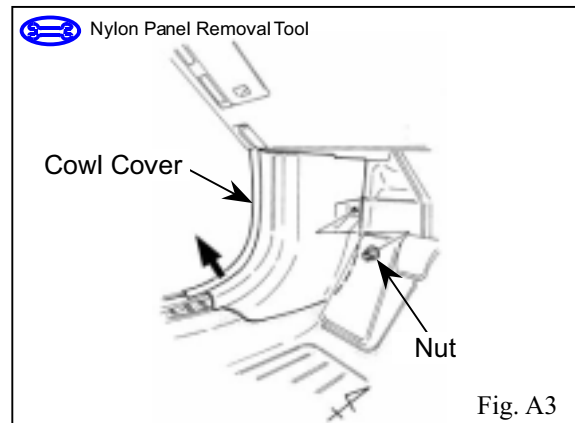
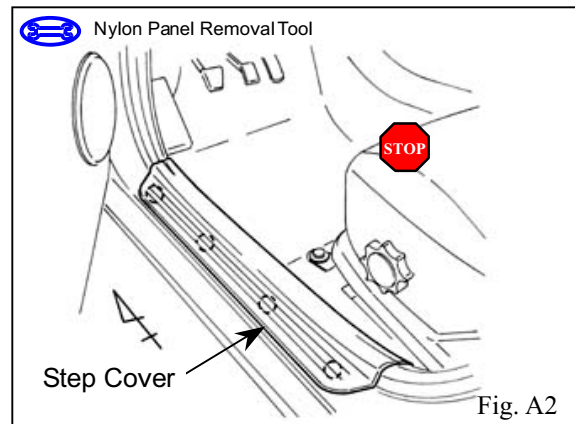
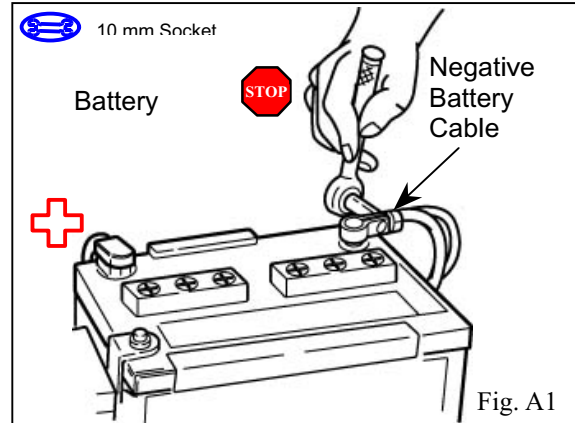
 *Mandatory

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.
	CRITICAL PROCESS: Proceed with caution to ensure a quality installation.
	GENERAL PROCESS: This highlights specific processes to ensure a quality installation.
	TOOLS & EQUIPMENT: Calls out the specific tools and equipment recommended for this process.

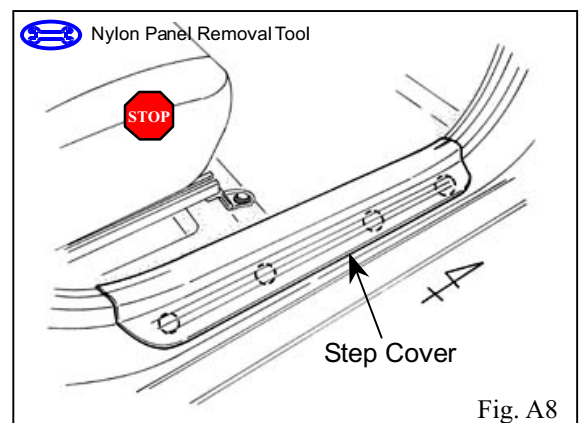
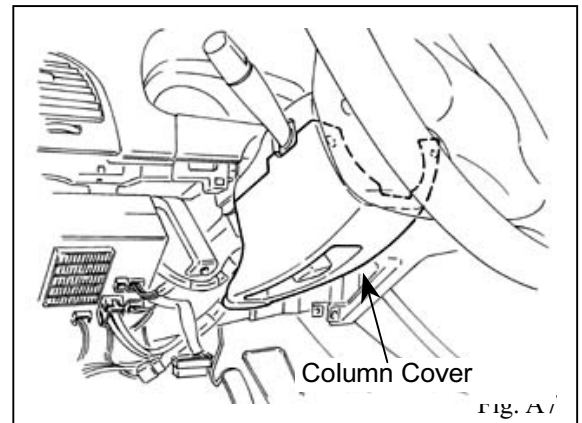
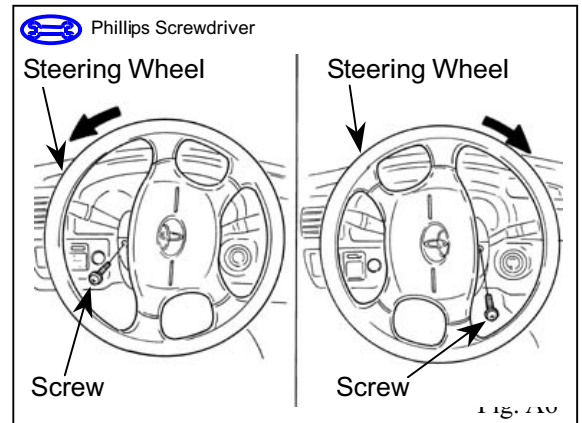
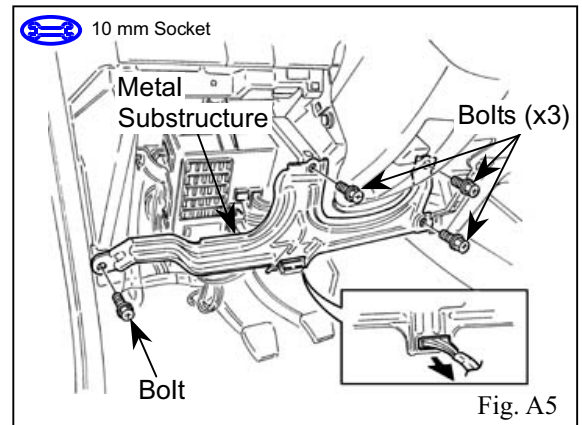
A. Vehicle Disassembly

1. Remove the negative battery cable.
(Fig. A1)
 -  i. Protect the fender before starting.
 - ii. For automatic equipped vehicles, place the shifter in low gear and set the parking break prior to disconnecting the battery.
 -  iii. Be careful not to touch the positive terminal.
2. Remove the driver's step cover. (Fig. A2)
-  i. Cover the floor seats before starting.
3. Remove the driver's cowl cover. (Fig. A3)
 - i. Remove the nut securing the cover.
4. Remove the hood release latch. (Fig. A4)
 - i. Remove the cable from the latch as shown.
5. Remove the coin box from the lower dash cover. (Fig. A4)
 - i. Remove the one screw securing the lower dash cover.



Section II - Installation Procedure

6. Remove the lower dash cover. (Fig. A4)
 - i. Open the screw cover of the lower dash cover.
 - ii. Remove the one bolt and one screw securing the lower dash cover.
 - iii. Disconnect the rheostat connector and temperature sensor (connector and aspirator hose) from the lower dash cover if equipped.
7. Remove the metal substructure. (Fig. A5)
 - i. Remove the four bolts securing the metal substructure.
 - ii. Disconnect the diagnostic connector from the metal substructure.
 - iii. Be careful to not get cut by the sharp metal edges.
8. Remove the two screws, located behind the steering wheel, securing the bottom steering column cover. (Fig. A6)
 - i. Insert the key into the ignition switch and turn it to ON, then turn the steering wheel left or right to gain access to the screws.
9. Remove the lower steering column cover. (Fig. A7)
10. Remove the passenger's step cover. (Fig. A8)
 - i. Cover the floor and seats before starting.



Section II - Installation Procedure

11. Remove the passenger's cowl cover.
(Fig. A9)
 - i. Remove the nut securing the cowl cover.
12. Remove the under-dash cover. (Fig. A10)
13. Remove the glove box assembly.
(Fig. A11)
 - i. Remove the three screws securing the glove box assembly.
14. Close the glove box assembly latch and then remove the remaining one screw and one bolt. (Fig. A12)
 - i. Remove the cover from the glove box assembly.

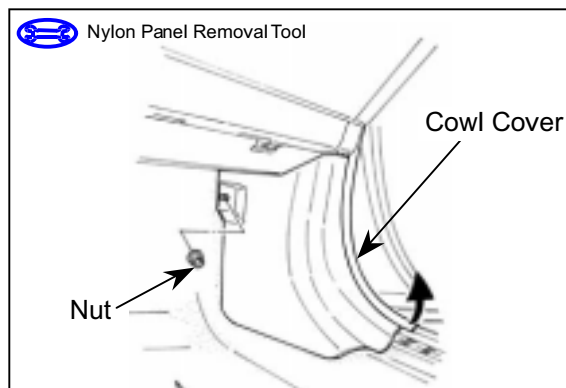


Fig. A9

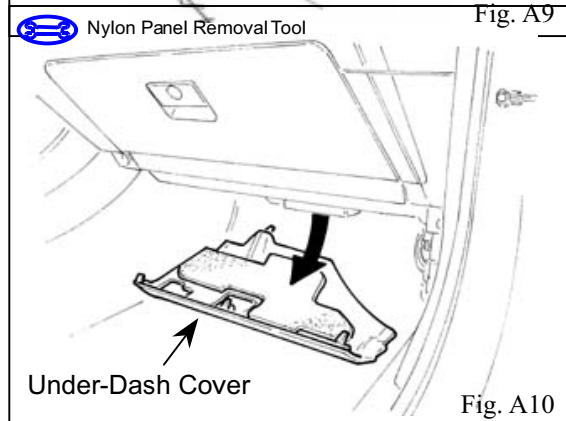


Fig. A10

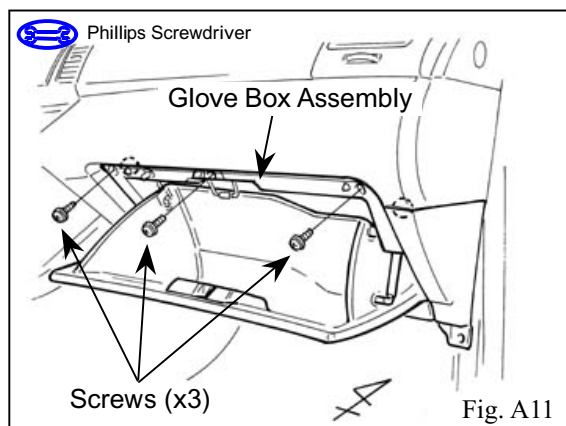


Fig. A11

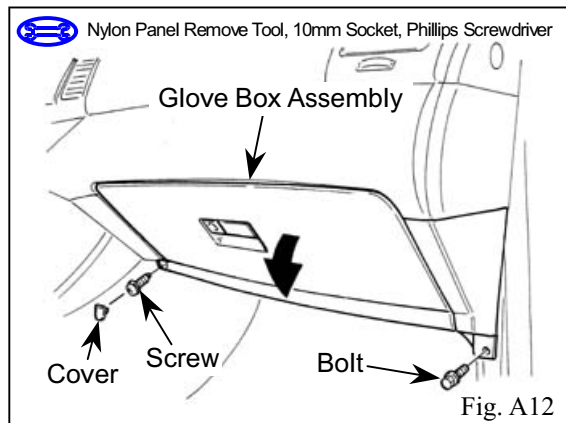


Fig. A12

Section II - Installation Procedure

15. Remove the rear console panel.

(Fig. A13 or Fig. A14)



- i. For M/T vehicles, remove the gearshift knob, then rear console panel.

(Fig. A13)

For A/T vehicles, remove the rear console panel only. (Fig. A14)

16. Remove the center upper console assembly.

(Fig. A15)

- i. Remove the cup holder from the front console panel.
- ii. Disconnect the power outlet connector.

17. Loosen the top of the upper center console panel. (Fig. A16)

- i. Remove the two screws securing the panel to the dash.
- ii. Pull the panel down approximately 3/8 of an inch. Do not remove the panel.

18. Identify whether the vehicle has an immobilizer system (Fig. A16)



- i. Look for the security LED on the heater control panel; if one is found, the vehicle has immobilizer system.

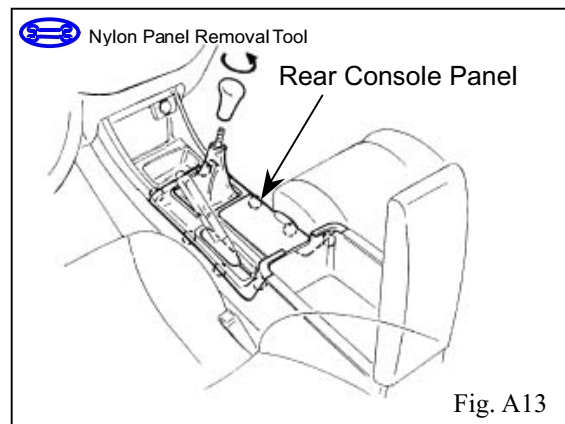


Fig. A13

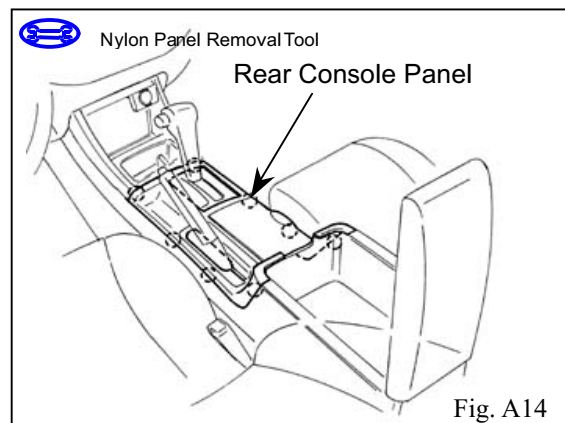


Fig. A14

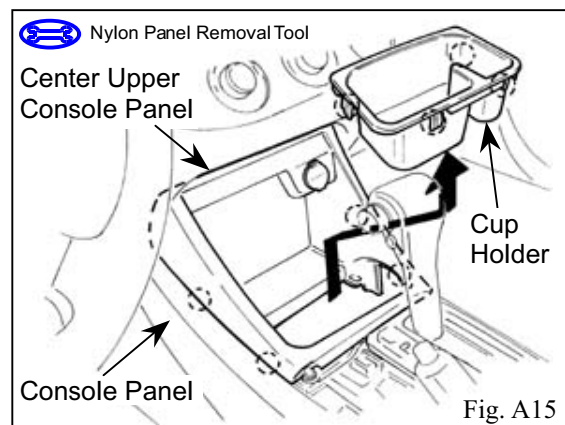
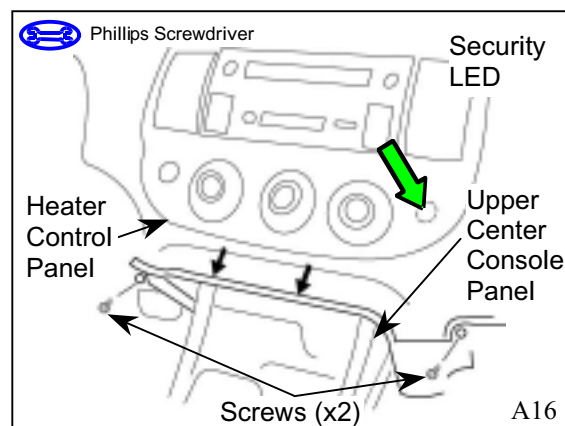


Fig. A15

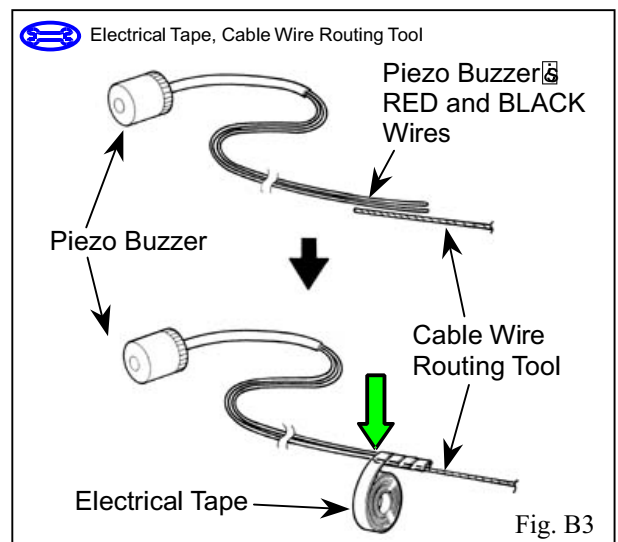
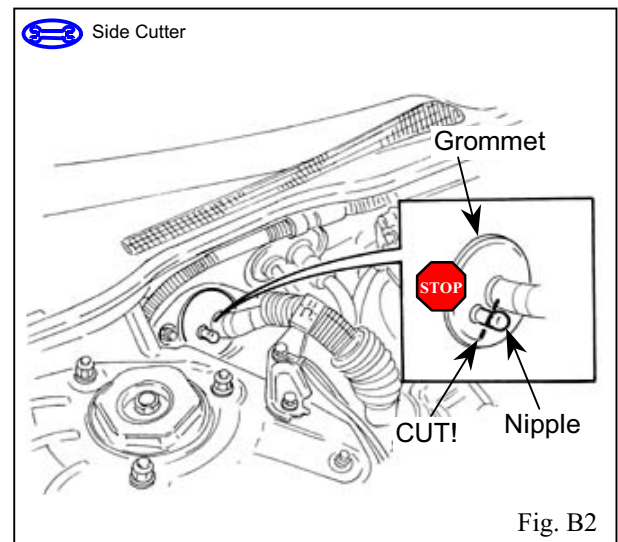
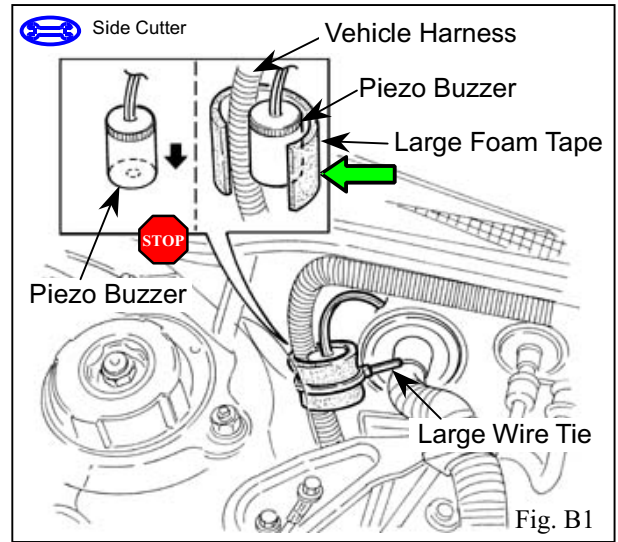


A16

Section II - Installation Procedure

B. Piezo Buzzer Installation

-  1. Wrap the Piezo Buzzer to the vehicle's harness with one large strip of foam tape. (Fig. B1)
-  i. Do not cover the opening of the Buzzer with the foam tape.
2. Secure the Piezo Buzzer to the vehicle's harness with one large wire tie. (Fig. B1)
3. Cut off the tip of the nipple on the grommet. (Fig. B2)
-  i. Do not cut any wires.
-  4. Secure the Piezo Buzzer's wires and the cable wire routing tool with electrical tape. (Fig. B3)



Section II - Installation Procedure

5. Push the entire length of the cable wire routing tool and Piezo Buzzer wires through the grommet's nipple into the passenger compartment. (Fig. B4)



- i. From inside the passenger compartment, pull the wires tightly through the grommet.



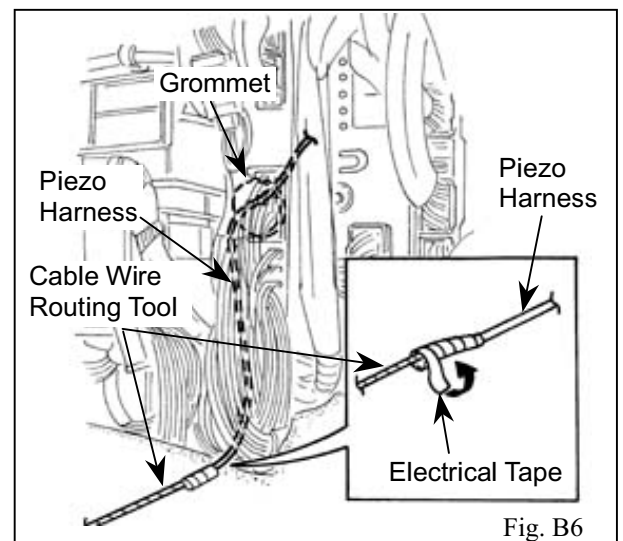
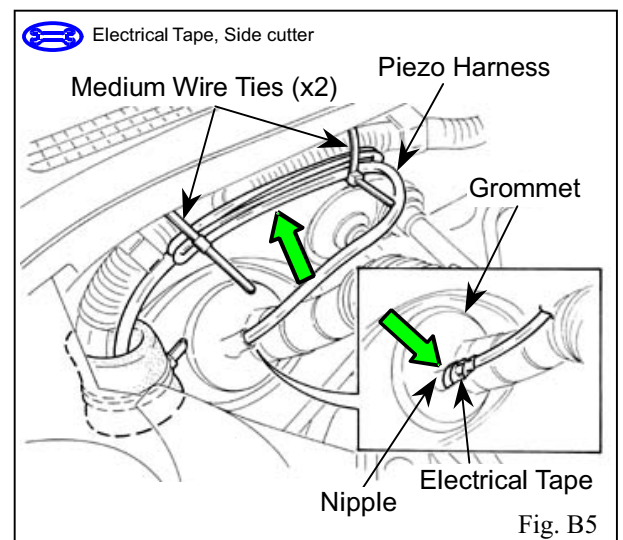
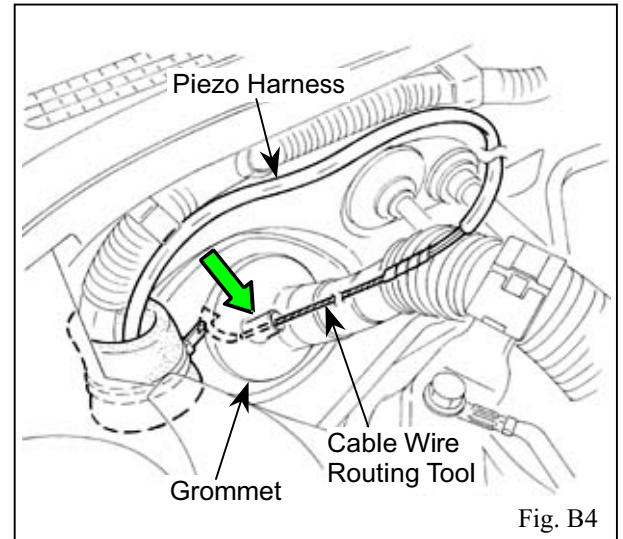
6. Wrap the Piezo Buzzer's harness and the nipple with the electrical tape. (Fig. B5)



7. Bundle the excess Piezo Buzzer's harness, and then secure it to the vehicle's harness with two medium wire ties. (Fig. B5)

8. Route the cable wire routing tool and Piezo Buzzer wires to the passenger compartment. (Fig. B6)

9. Remove the electrical tape and cable wire routing tool. (Fig. B6)



Section II - Installation Procedure

10. Route the Piezo Buzzer's wires up toward the dash, then secure it to the vehicle's harness with four medium wire ties. (Fig. B7)



- i. Do not cut the Piezo Buzzer wires until instructed to do so.

C. V3 Wire Harness Installation

1. Locate and disconnect the 12P and 22P connectors from the left side of the Instrument Panel J/B. (Fig. C1)
 - i. Using a small nylon removal tool or the tape covered tip of a flat blade screwdriver, press in then pry the lock tabs of the 22P and 12P connectors away from the connector block.
 - ii. Do not pull on the wires; pull on the connector.



2. Plug in the V3 harness' white 22P connector between the vehicle harness' white 12P connector and the Instrument Panel J/B. (Fig. C2)



- i. Verify the connectors are plugged in securely.

3. Plug in the V3 harness' white 12P connector between the vehicle harness' white 12P connector and Instrument Panel J/B. (Fig. C2)



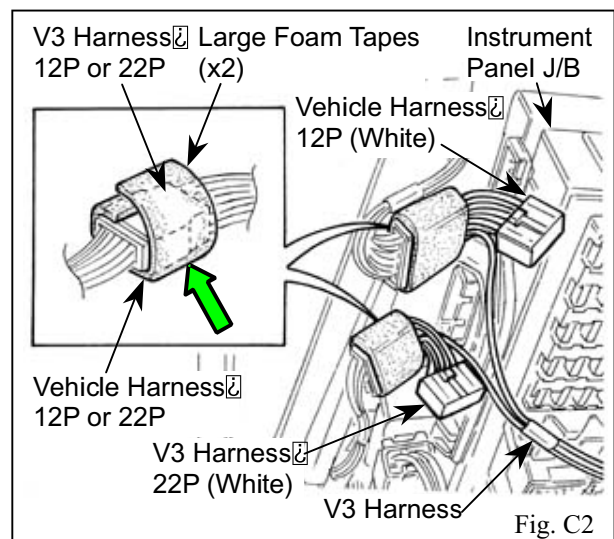
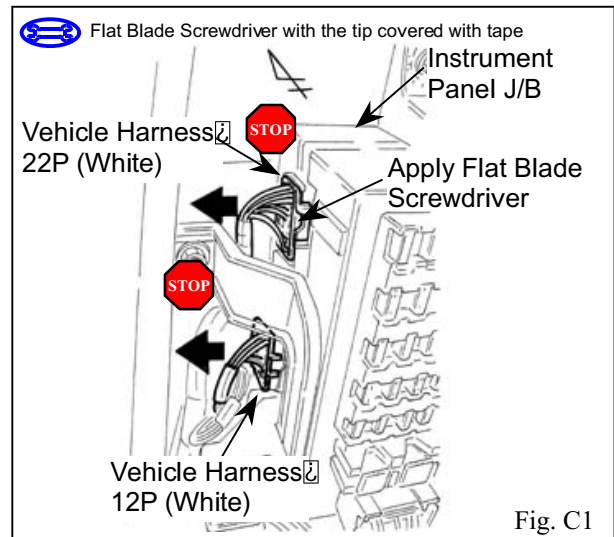
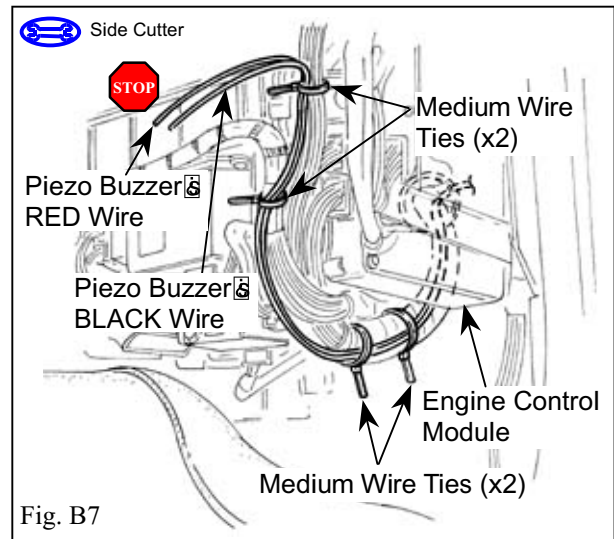
- i. Verify the connectors are plugged in securely.



4. Wrap the white 22P connectors with one large strip of foam tape. (Fig. C2)



5. Wrap the white 22P connectors with one large strip of foam tape. (Fig. C2)



Section II - Installation Procedure

6. Plug in the V3 harness' white 22P connector to the Instrument Panel J/B.

(Fig. C3)



- i. Verify the connectors are plugged in securely.

7. Plug in the V3 harness' white 12P connector to the Instrument Panel J/B.

(Fig. C3)



- i. Verify the connectors are plugged in securely.



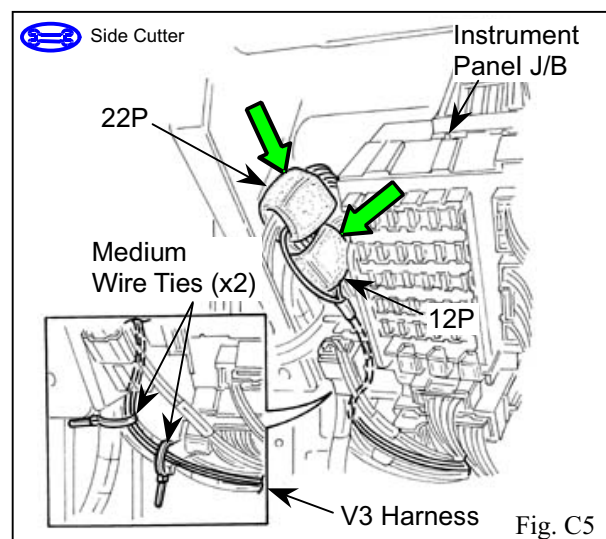
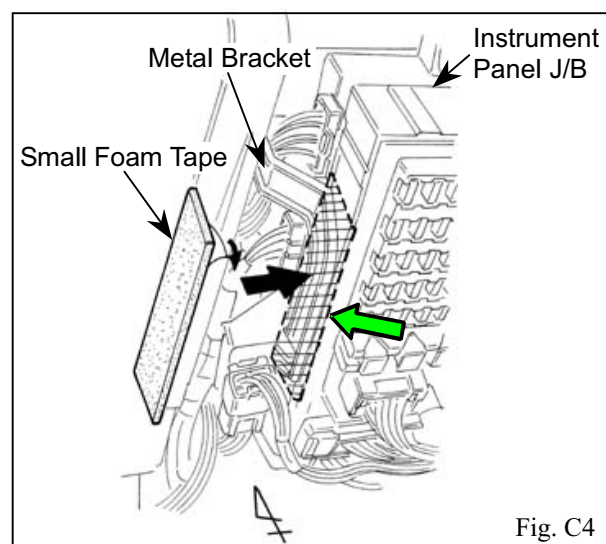
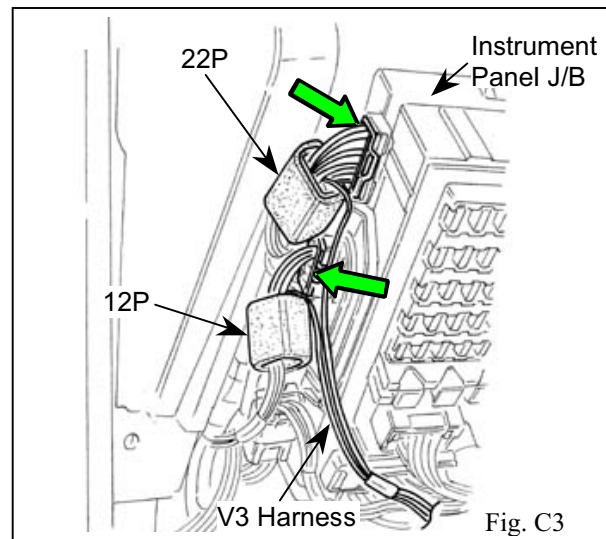
8. Attach one small strip of foam tape to the edge of the metal bracket as shown.

(Fig. C4)



9. Arrange the 12P and 22P connectors between the Instrument Panel J/B and the Dash Panel. (Fig. C5)

10. Route the V3 harness as shown, then secure it to the vehicle's harness with two medium wire ties. (Fig. C5)



Section II - Installation Procedure

- ➔ 11. Locate and release the lock of the white 24P connector from the Instrument Panel J/B. (Fig. C6)



- i. Do not pull on the wires; pull on the connector.

12. Disconnect the white 24P connector. (Fig. C6)



- i. Do not pull on the wires; pull on the connector.

13. Using a small screwdriver, lift up and slide the black lock cover from the 24P connector. (Fig. C7)

14. Using a small Jeweler's Screwdriver or the like, lift up the terminal retainer on the 24P connector. (Fig. C7)



- i. Do not pull out the retainer.

15. Located the GREEN/BLACK wire in the bottom row, third spaces from the left. Using a pick, release and pull out the terminal for the GREEN/BLACK wire. (Fig. C8)

16. Located the GREEN wire in the top row, ten spaces from the left. Using a pick, release and pull out the terminal for the GREEN wire. (Fig. C8)

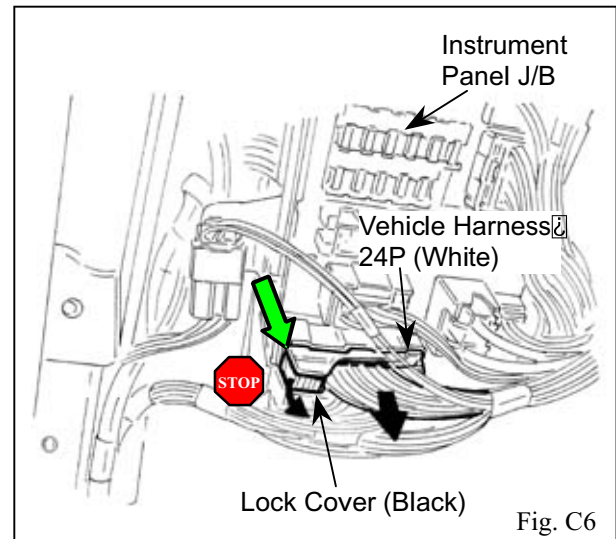


Fig. C6

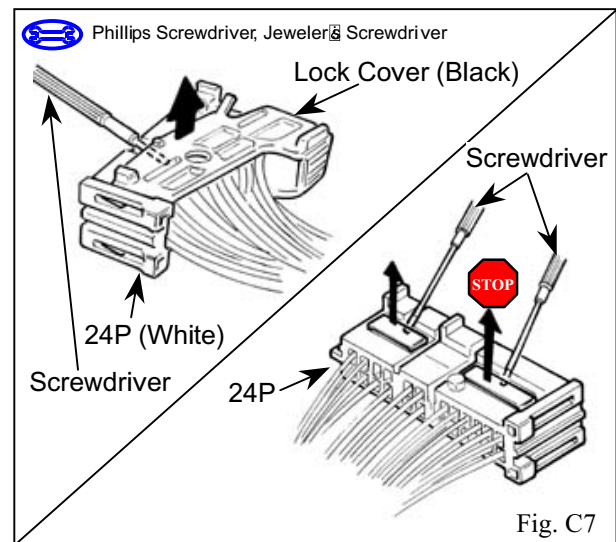


Fig. C7

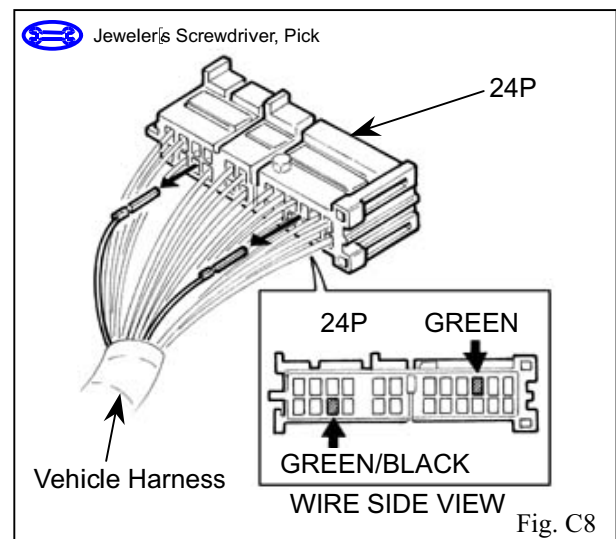


Fig. C8

Section II - Installation Procedure

17. Insert the terminal at the end of the V3 harness' GREEN/BLACK wire into the bottom row, third spaces from the left of the vehicle harness' 24P connector. (Fig. C9)



- i. Verify the correct opening is chosen.



- ii. Verify the terminal is inserted and seated properly.

18. Insert the terminal at the end of the V3 harness' GREEN wire into the top row, ten spaces from the left of the vehicle harness' 24P connector. (Fig. C9)



- i. Verify the correct opening is chosen.



- ii. Verify the terminal is inserted and seated properly.

19. Close the retainer.

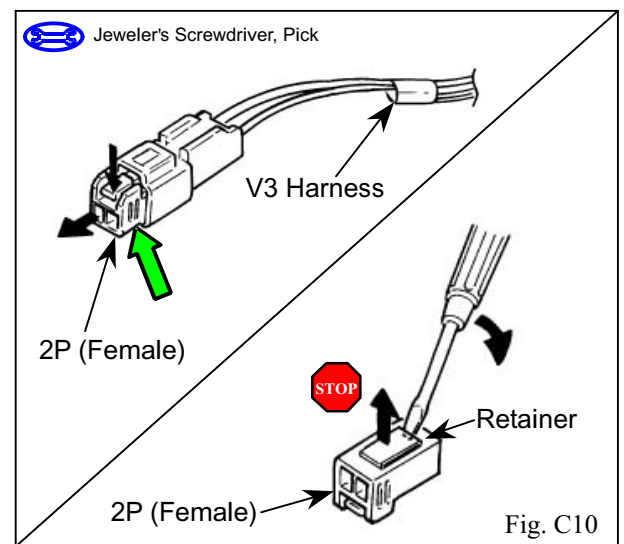
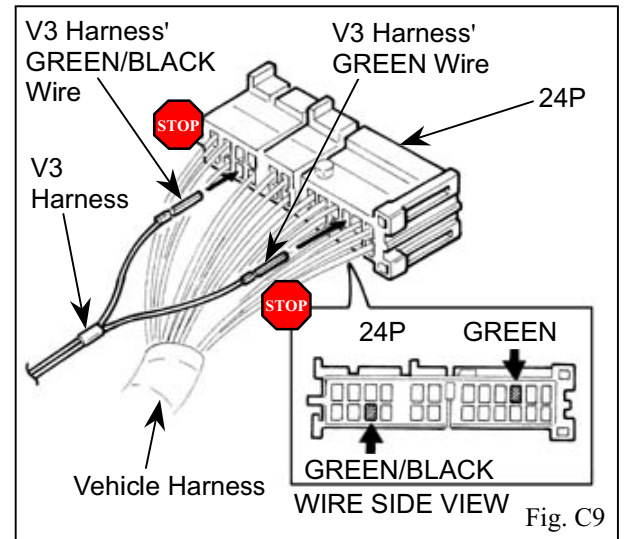


20. Disconnect the empty 2P female connector plugged into the V3 harness' 2P male connector. (Fig. C10)

21. Using a small Jeweler's Screwdriver or the like, lift up the terminal retainer on the back of the empty connector. (Fig. C10)



- i. Do not pull out the retainer.



Section II - Installation Procedure

22. Insert the terminal at the end of the vehicle harness' GREEN/BLACK wire into the left side opening of the empty 2P connector.
(Fig. C11)

23. Insert the terminal at the end of the vehicle harness' GREEN wire into the right side opening of the empty 2P connector.
(Fig. C11)



i. Turn the connector so the wire faces you and the tab is on top.



ii. Verify the correct opening is chosen.



iii. Verify the terminal is inserted and seated properly.

24. Close the retainer of the 2P connector.
(Fig. C11)

25. Refit the lock cover of the 24P connector.
(Fig. C12)

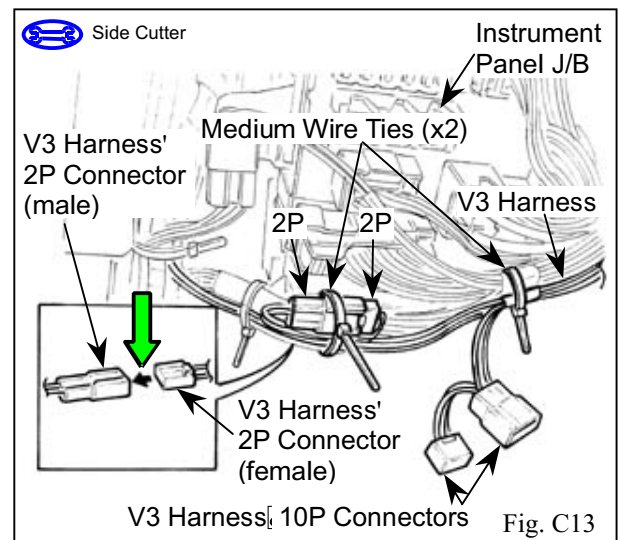
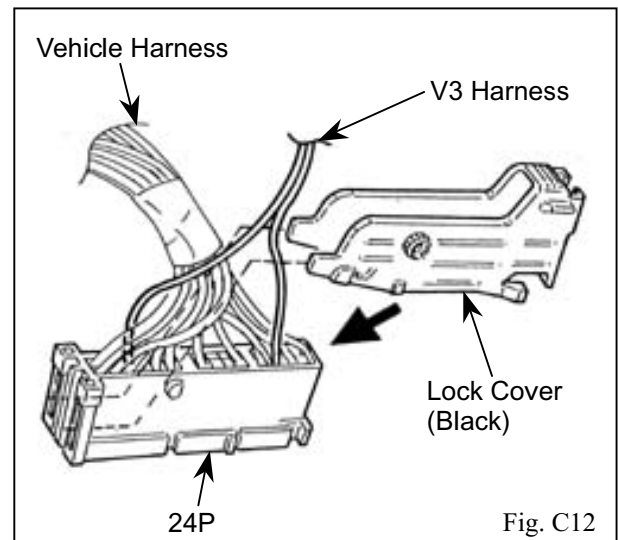
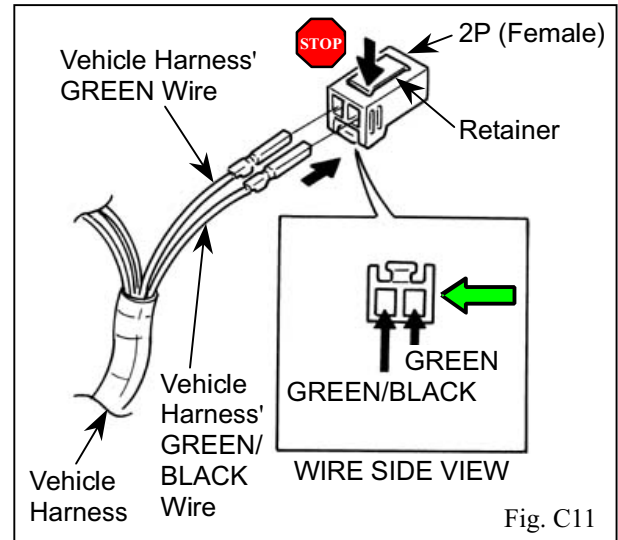
26. Plug in the V3 harness' white 2P male connector into the V3 harness' white 2P female connector. (Fig. C13)



i. Verify the correctors are plugged in securely.

27. Secure the white 2P connector to the vehicle's harness with one medium wire tie.
(Fig. C13)

28. Route the V3 harness as shown, then secure it to the vehicle's harness with one medium wire tie. (Fig. C13)



Section II - Installation Procedure

29. Locate and disconnect the gray 10P connector from the connector block near the Instrument Panel J/B. (Fig. C14)



- i. Do not pull on the wires; pull on the connector.

30. Plug in the V3 harness' gray 10P connector between the vehicle harness' gray 10P connector and the connector block. (Fig. C15)



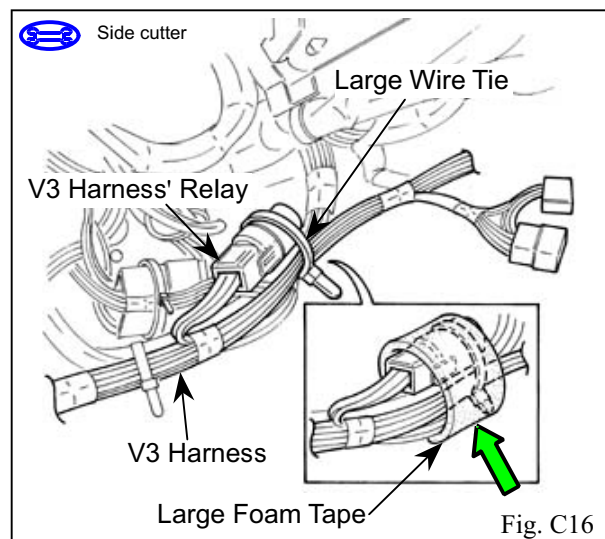
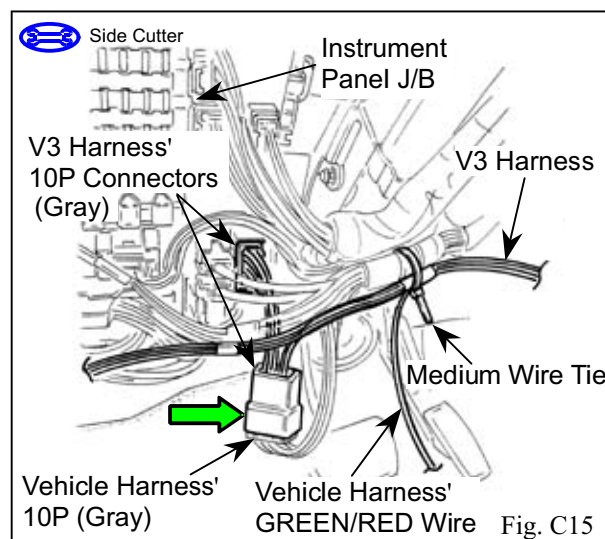
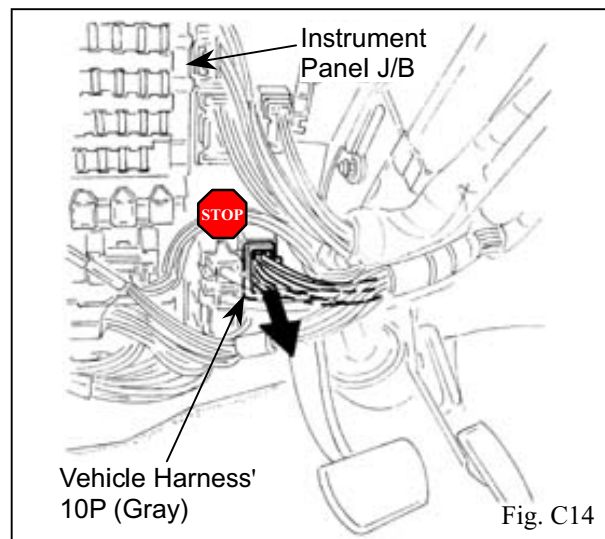
- i. Verify the connectors are plugged in securely.

- ii. Secure the V3 harness to the vehicle harness with one medium wire tie.

31. Secure the V3 harness' relay to the V3 harness with one large wire tie. (Fig. C16)



32. Wrap the relay with one large strip of foam tape. (Fig. C16)



Section II - Installation Procedure

33. Remove the harness cover from under the Instrument Panel J/B. (Fig. C17)

34. Locate the vehicle harness' GREEN/RED wire from the connector block, and attach the V3 harness' GREEN/RED wire with one splicing connector. (Fig. C18)



i. Verify the correct wire is chosen for splicing.

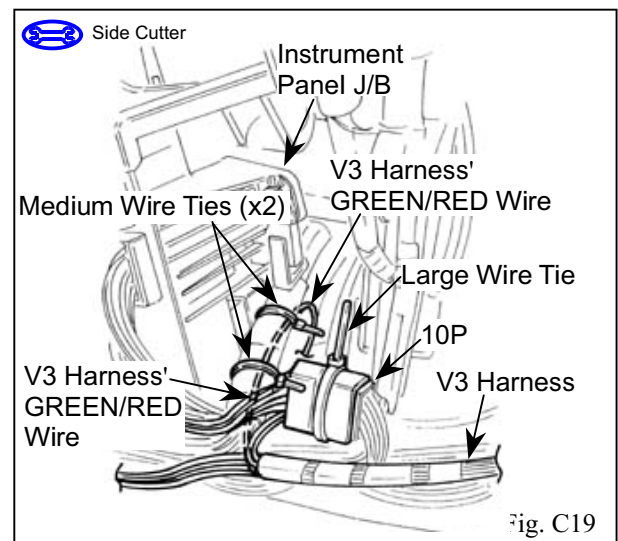
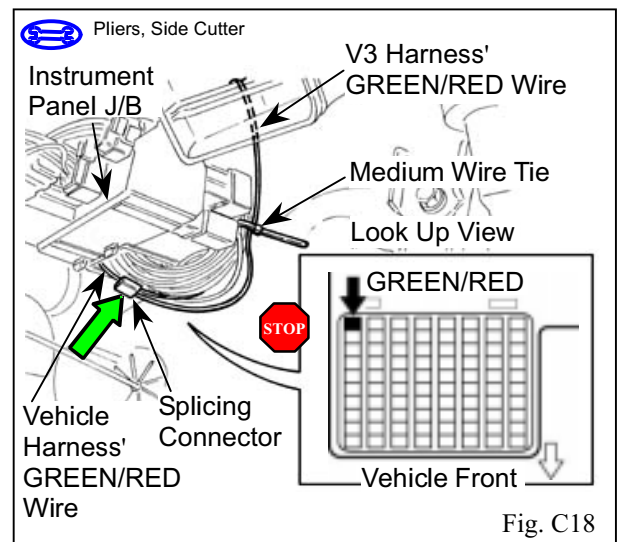
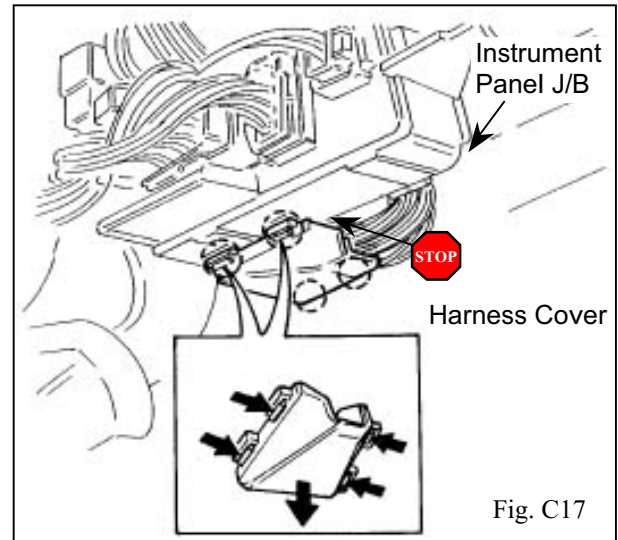


ii. Make sure the splicing connector is applied properly.

35. Secure the V3 harness' GREEN/RED wire to the vehicle harness with one medium wire tie. (Fig. C18)

36. Secure the V3 harness' GREEN/RED wire to the vehicle's harness with two medium wire ties. (Fig. C19)

37. Secure the 10P connector to the vehicle's harness with one large wire tie. (Fig. C19)



Section II - Installation Procedure

38. Locate and disconnect the white 8P connector from the ignition switch.
(Fig. C20)



- i. Do not pull on the wires; pull on the connector.

39. Plug in the V3 harness' white 8P connector between the vehicle harness' white 8P connector and the ignition switch.
(Fig. C21)



- i. Verify the correctors are plugged in securely.

40. Secure the 8P connector and V3 harness to the vehicle's harness with one large wire tie.
(Fig. C22)

- i. Place the right side of the 8P connector against the vehicle harness.

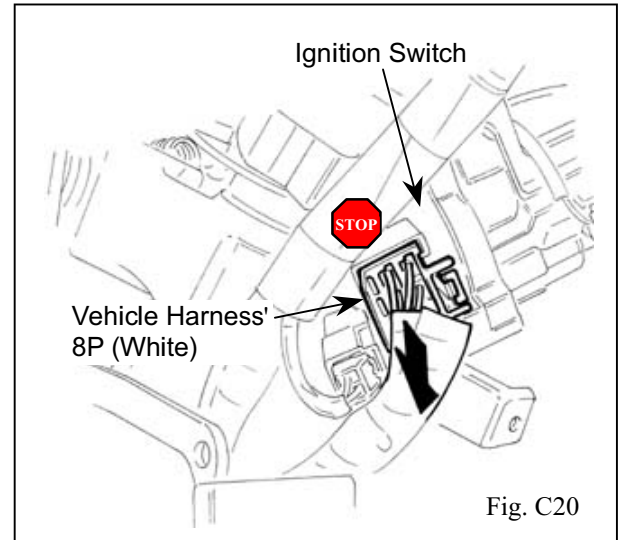


Fig. C20

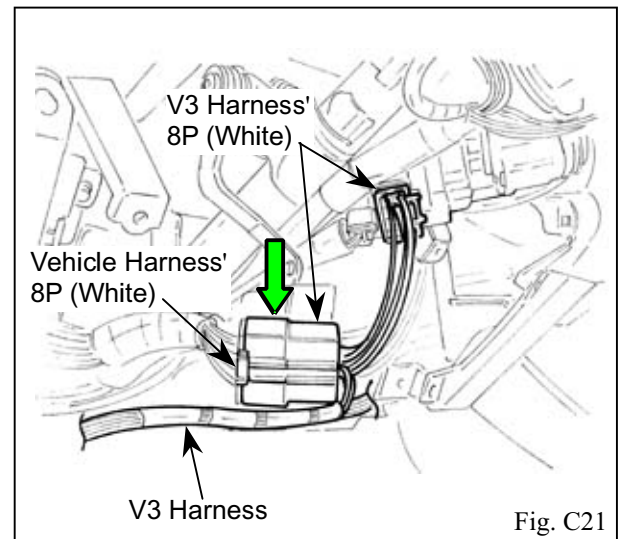


Fig. C21

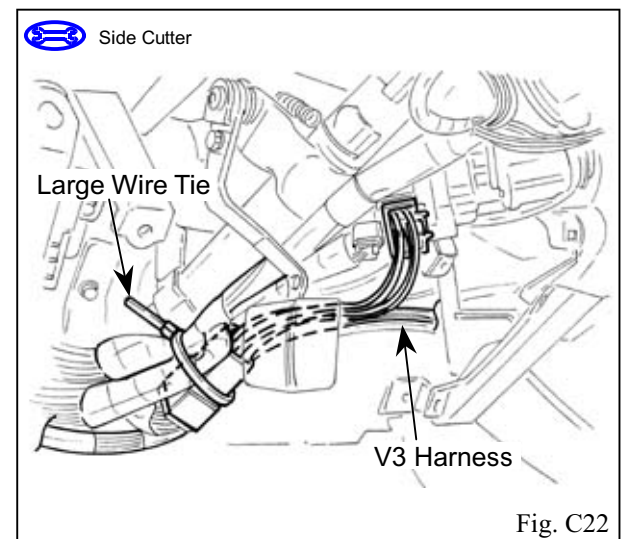


Fig. C22

Section II - Installation Procedure

41. Route the V3 harness toward the connector block area, then secure it to the vehicle harness with one medium wire tie. (Fig. C23)

42. Route the V3 harness toward the center console area, then secure it to the vehicle harness with two medium wire ties. (Fig. C24)

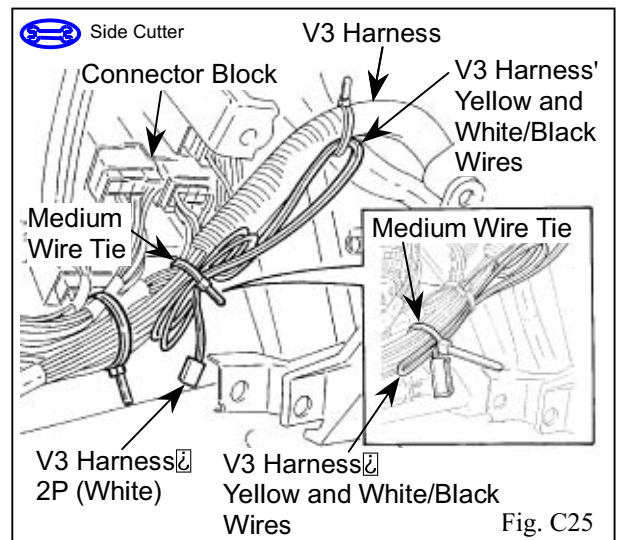
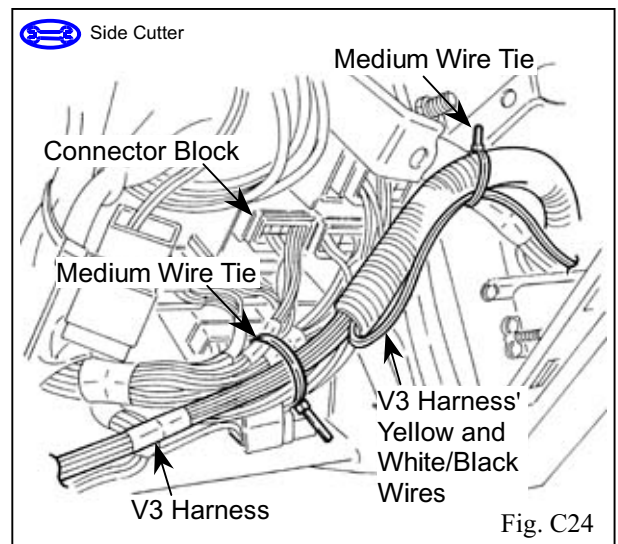
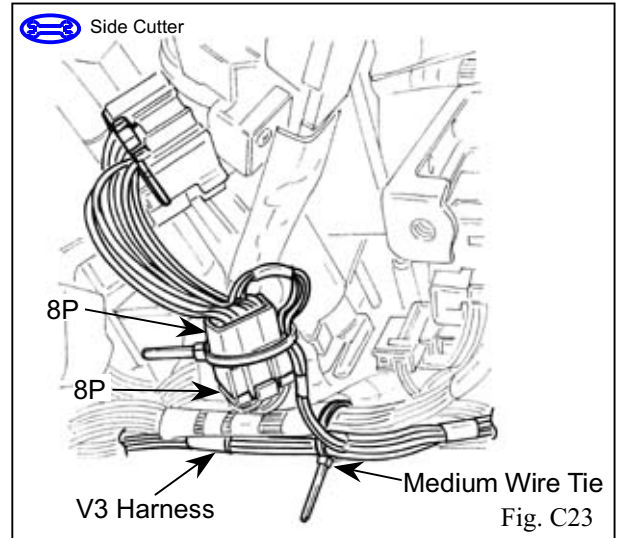
FOR VEHICLES WITH IMMOBILIZER SYSTEM ONLY. (Steps 43-45)

43. Bundle the V3 harness' YELLOW and WHITE/BLACK wires, and then secure it to the vehicle harness and V3 harness with one medium wire tie. (Fig. C25)

i. Do not perform this step if the vehicle does not have an immobilizer system.

44. Secure the V3 harness' status monitor 2P connector to the V3 harness with one medium wire tie. (Fig. C25)

i. Do not perform this step if the vehicle does not have an immobilizer system.



Section II - Installation Procedure

45. Route the V3 harness behind the heater control panel unit, through the passenger's side of the vehicle. (Fig. C26)



i. Do not perform this step if the vehicle does not have an immobilizer system.



ii. Route the V3 harness away from any moving parts such as levers, etc.

FOR VEHICLES WITHOUT
IMMOBILIZER SYSTEM ONLY.

(Steps 46-47)

46. Route the yellow and white/black wires of the V3 harness toward the console area as shown, then secure it to the vehicle harness with two medium wire ties. (Fig. C27)

47. Route the V3 harness behind the heater control panel unit, through the passenger side of the vehicle. (Fig. C27)



i. Route the V3 harness away from any moving parts such as levers, etc.

48. Route the V3 harness toward the glove box area, then secure it to the vehicle harness with three medium wire ties. (Fig. C28)



49. Apply one large piece of foam tape to the metal brace as shown. (Fig. C28)

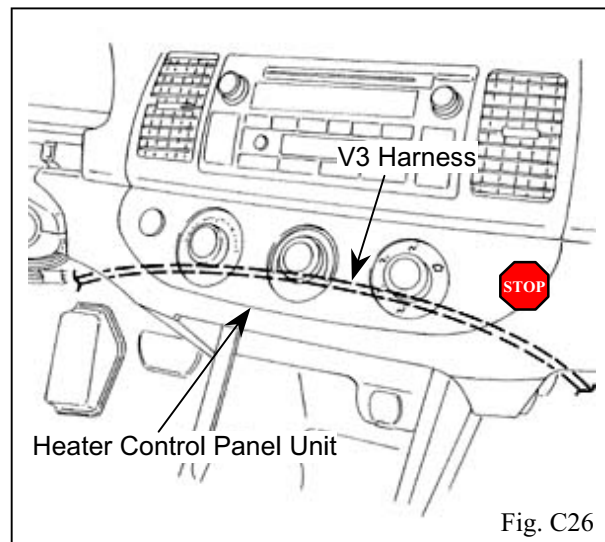


Fig. C26

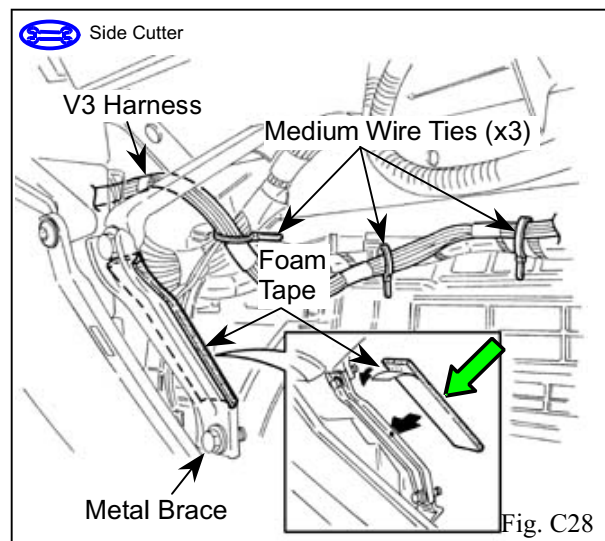
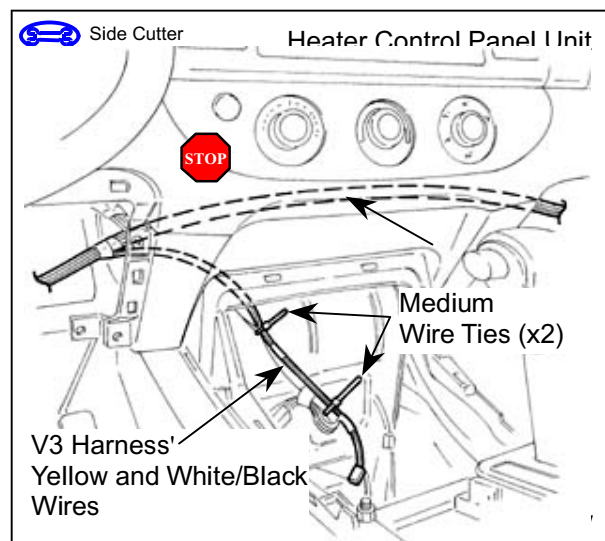
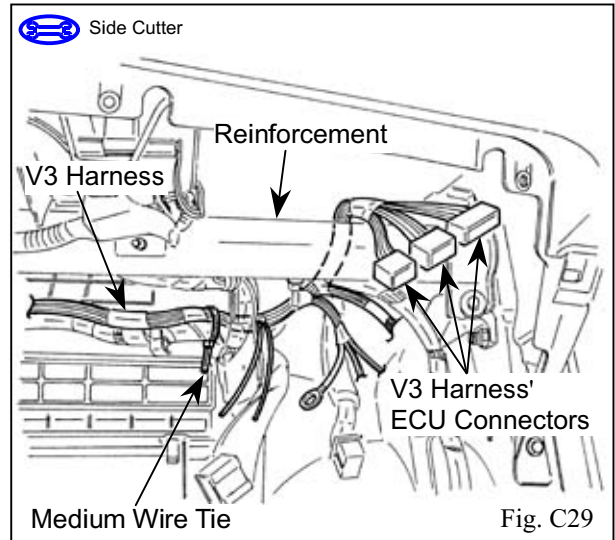


Fig. C28

Section II - Installation Procedure

50. Route the V3 harness through the glove box area, and then route the V3 harness ECU connectors behind the reinforcement as shown. (Fig. C29)

51. Secure the V3 harness to the vehicle harness with one medium wire tie. (Fig. C29)



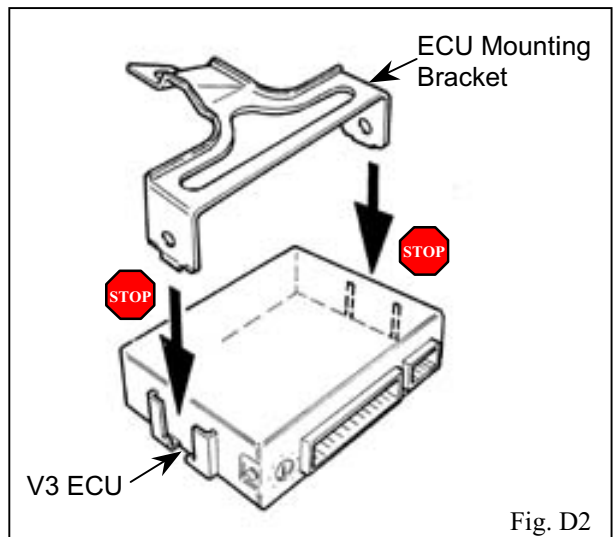
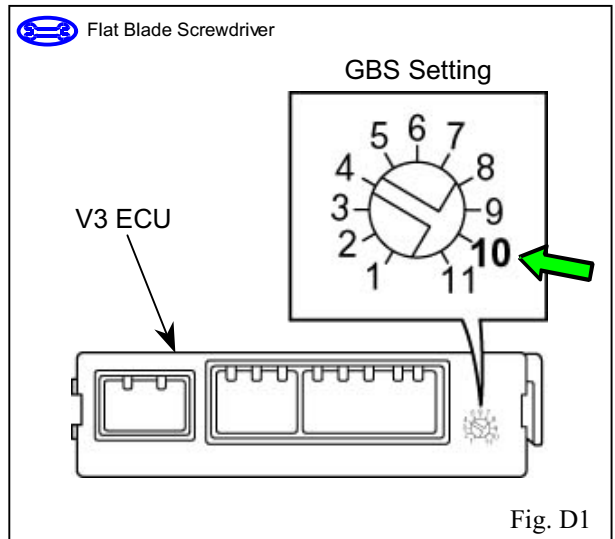
D. V3 ECU Preparation and Installation

➔ 1. Turn the adjustment screw on the V3 ECU to the 10 position. (Fig. D1)

2. Insert the ECU mounting bracket into the indicated bracket slot on the V3 ECU. (Fig. D2)



i. Insert the mounting bracket into the correct slot; you have only one chance to install it properly.



Section II - Installation Procedure

3. Using two pieces of butyl tape, cover the edge of the V3 ECU and ECU mounting bracket. (Fig. D3)



- i. Do not remove the protective sheet from the top of the butyl tape.

4. Connect the V3 harness' ECU connectors to the V3 ECU. (Fig. D4)

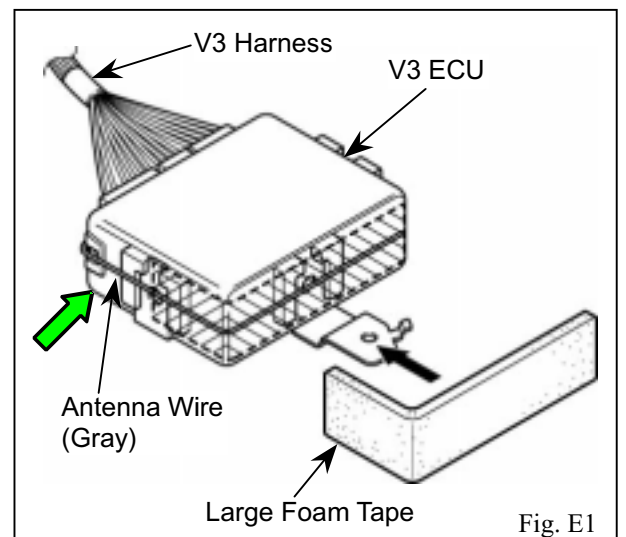
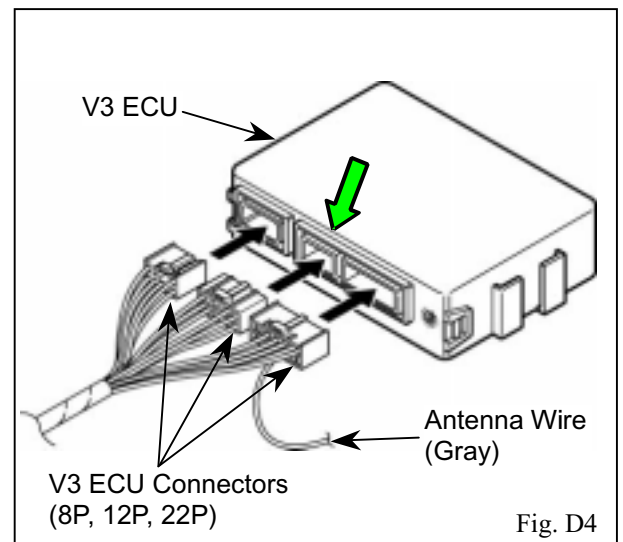
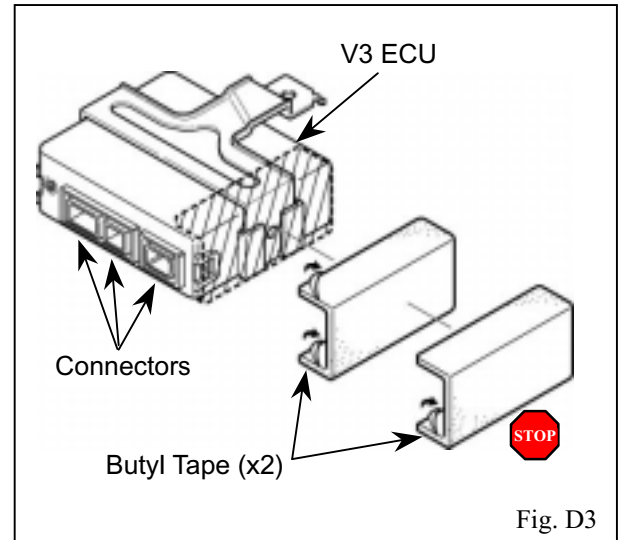


- i. Verify the connectors are plugged in securely.

E. Antenna Wire Installation

1. Secure the GRAY Antenna wire to the side of the V3 ECU with one large strip of foam tape. (Fig. E1)

- i. The GRAY Antenna wire must be positioned as shown. If this position is not correct, remote control operation range will be shortened.



Section II - Installation Procedure

F. V3 ECU Installation

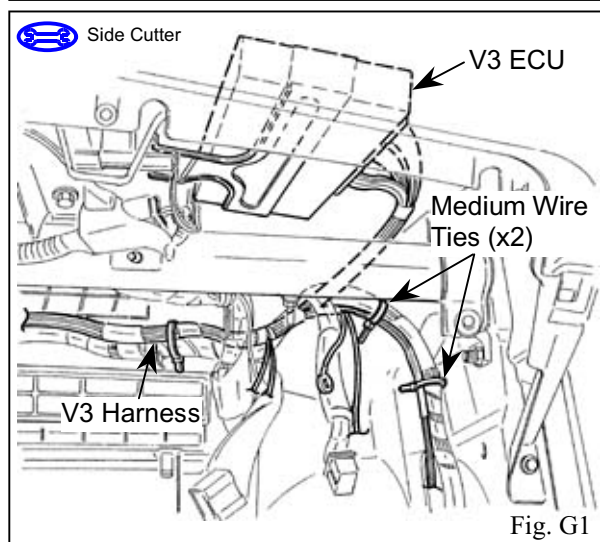
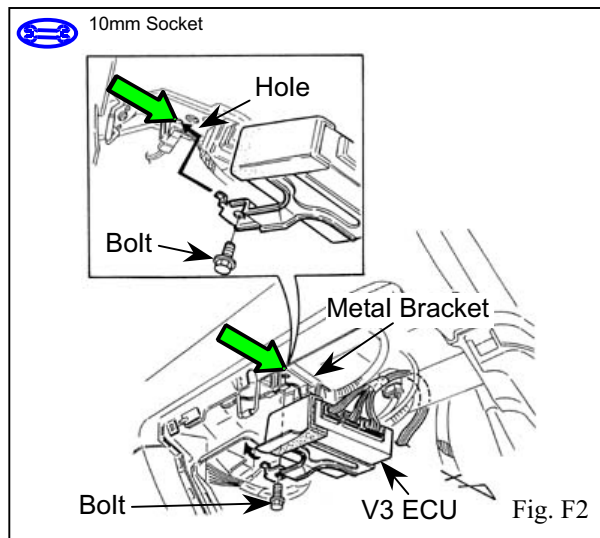
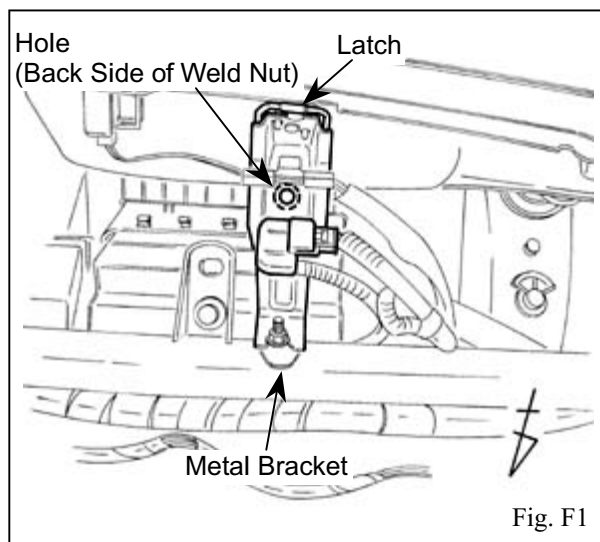
1. Looking up from beneath the dash, locate the metal bracket in the hole near the glove box lid latch. (Fig. F1)
2. Remove the backing sheet from the butyl tape. (Fig. F2)
3. Using the supplied bolt, mount the V3 ECU to the metal bracket in the glove box area. (Fig. F2)



- i. Mount the V3 ECU as shown.

G. V3 Harness Installation (continued)

1. Route the V3 harness as shown, then secure it to the vehicle's harness with two medium wire ties. (Fig. G1)



Section II - Installation Procedure

2. Attach the V3 harness' RED wire to the piezo buzzer's RED wire with one splicing connector. (Fig. G2)



- i. Verify the correct wire is chosen for splicing.



- ii. Verify the splicing connector is applied properly.

3. Attach the V3 harness' WHITE/BLACK wire to the piezo buzzer's BLACK wire with one splicing connector. (Fig. G2)



- i. Verify the correct wire is chosen for splicing.



- ii. Verify the splicing connector is applied properly.

4. Cut off the excess piezo buzzer's RED and BLACK wires. (Fig. G2)



- i. Do not cut the other wires.

5. Locate and remove the existing nut from the right most ground point on the reinforcement. (Fig. G3)



- i. Do not discard the nut.

6. Secure the V3 harness' ground wire terminal, along with the vehicle harness' ground wire terminal, using the existing nut. (Fig. G3)



- i. Verify the nut is tightened securely.

7. Route the V3 harness' white 2P connector downward toward the glove box area. (Fig. G4)

8. Bundle and secure the V3 harness, the piezo wires, the V3 Harness' WHITE/BLACK and RED wires, and microphone wire to the vehicle harness with three medium wire ties. (Fig. G4)

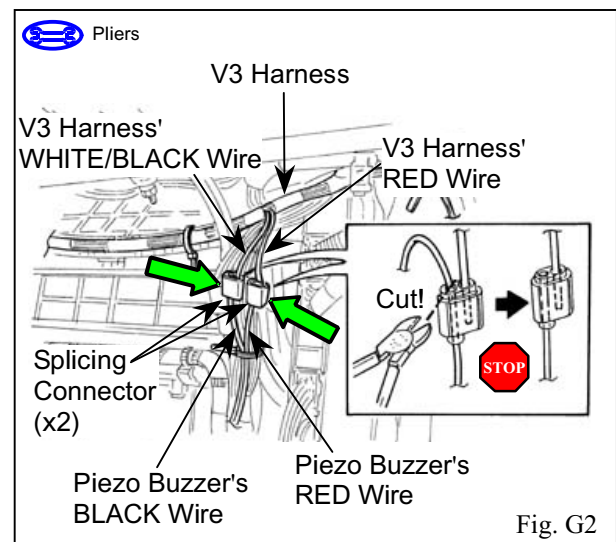


Fig. G2

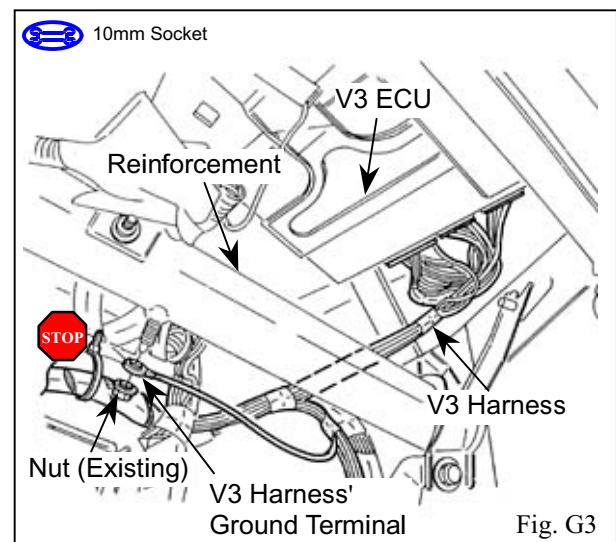


Fig. G3

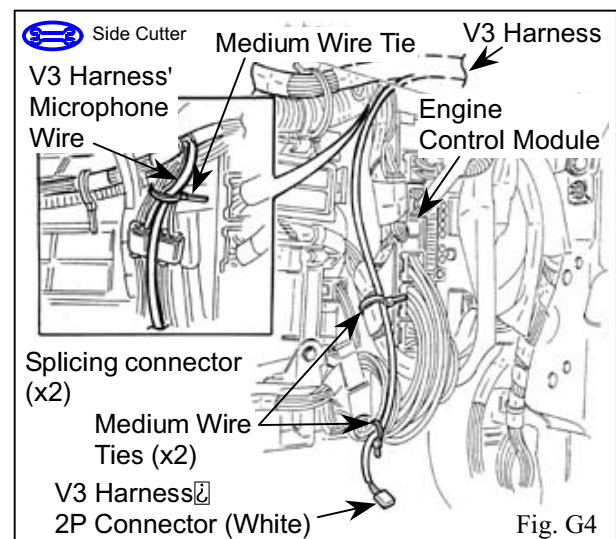


Fig. G4

Section II - Installation Procedure

FOR VEHICLES WITH IMMOBILIZER SYSTEM ONLY. (Steps 9-11)

9. Locate and disconnect the white 35P connector from the Engine Control Module. (Fig. G5)



i. Do not perform this step if the vehicle does not have an immobilizer system.



ii. Do not pull on the wires; pull on the connector.

10. Locate the wire in the second row from the top, first space from the left, and attach the V3 harness' VIOLET wire with one splicing connector. (Fig. G6)



i. Do not perform this step if the vehicle does not have an immobilizer system.



ii. Turn the connector so the wires face you and the tab is on top.

iii. For the splice, the tape on the vehicle harness must be sliced open 20mm with side cutter in order to gain access to the splicing wire from the vehicle harness.



iv. Verify the correct wires are chosen for splicing.

v. Make sure the splicing connector is applied properly.

11. Reconnect the 35P connector, and then secure the excess VIOLET wire to the vehicle's harness with one medium wire tie. (Fig. G6)



i. Do not perform this step if the vehicle does not have an immobilizer system.



ii. Verify the connector is plugged in securely.

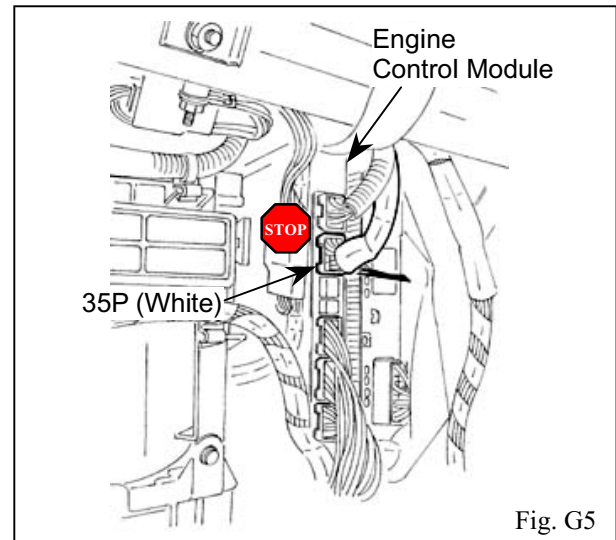


Fig. G5

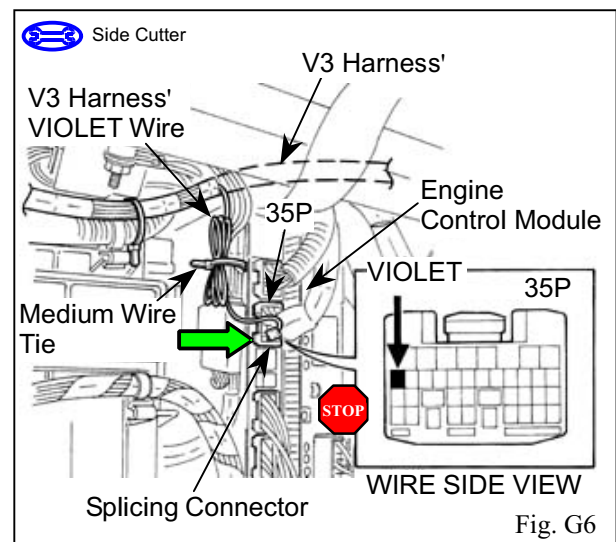


Fig. G6

Section II - Installation Procedure

FOR VEHICLES WITHOUT
IMMOBILIZER SYSTEM ONLY.

(Step 12)

- ➔ 12. Bundle and secure the unused V3 harness VIOLET wire to the vehicle's harness with one medium wire tie. (Fig. G7)

13. Locate and disconnect gray 11P connector and the white 12P connector from the passenger's cowl area. (Fig. G8)



- i. Do not pull on the wires; pull on the connector.

14. Plug in the V3 harness' gray 11P connector between the vehicle harness' gray 11P connector and the passenger's cowl area. (Fig. G8)



- i. Verify the connectors are plugged in securely.

15. Plug in the V3 harness' white 12P connector between the vehicle harness' white 12P connector and the passenger's cowl area. (Fig. G8)



- i. Verify the connectors are plugged in securely.



- ➔ 16. Wrap the gray 11P connector with one large strip of foam tape. (Fig. G9)



- ➔ 17. Wrap the white 12P connector with one large strip of foam tape. (Fig. G9)

18. Secure the V3 harness' 11P connector and 12P connector to the vehicle's harness with three medium wire ties. (Fig. G9)

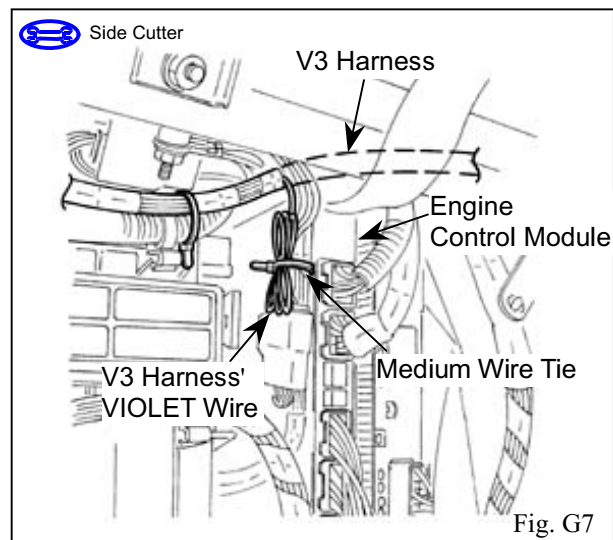


Fig. G7

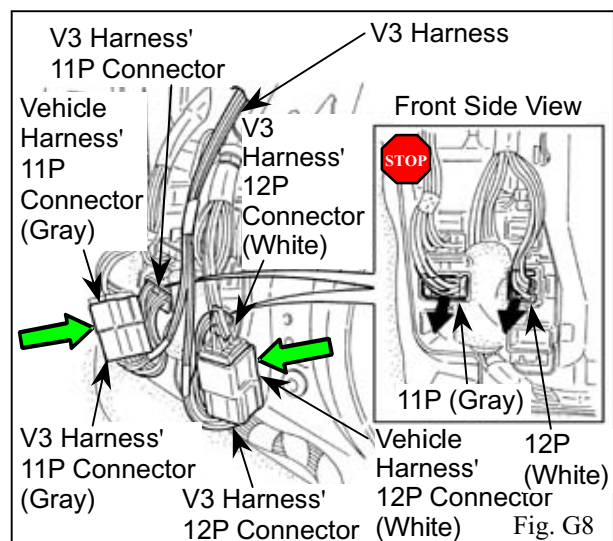


Fig. G8

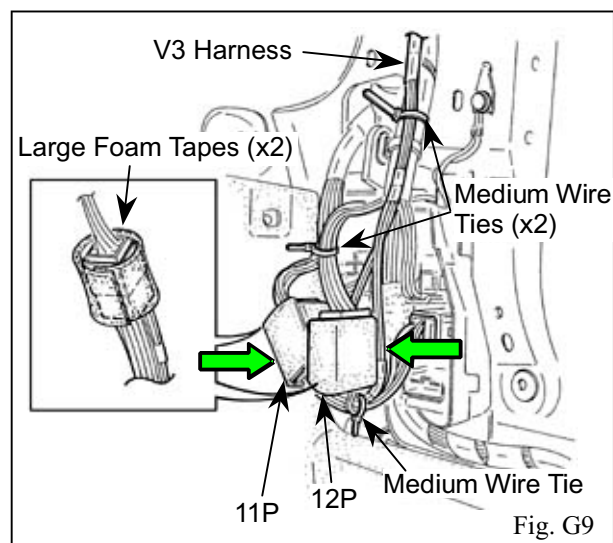
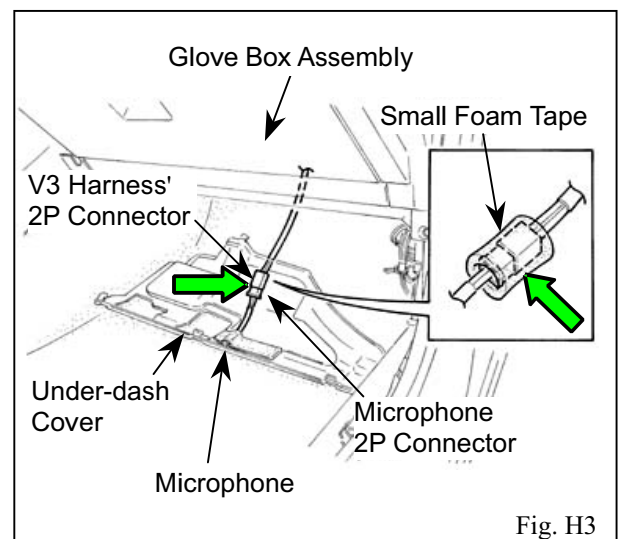
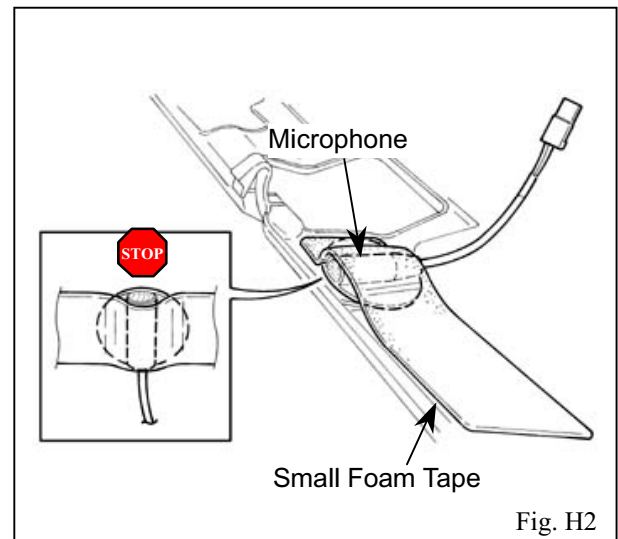
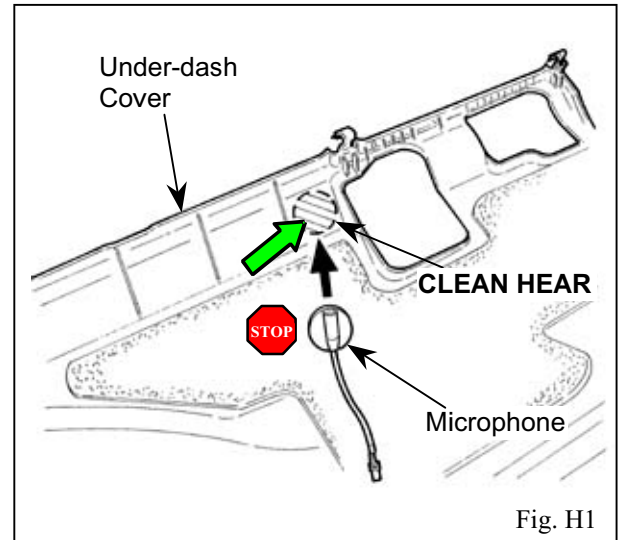


Fig. G9

Section II - Installation Procedure

H. Microphone Installation

- ➡ 1. Using 3M™ Prep Solvent 70 clean the area indicated on the backside of the under-dash cover. (Fig. H1)
2. Remove the backing sheet and secure the microphone to the backside of the under-dash cover. (Fig. H1)
 - ➡ i. Secure the microphone as shown.
 - STOP ii. Do not touch the adhesive surface of the microphone.
 - STOP iii. Press the microphone to the glove box under panel firmly.
3. Secure the microphone with one small strip of foam tape. (Fig. H2)
 - STOP i. Do not cover the opening of the microphone with the foam tape.
4. Refit the glove box assembly. (Fig. H3)
5. Plug in the microphone's 2P connector to the V3 harness' 2P connector. (Fig. H3)
 - ➡ i. Verify the connectors are plugged in securely.
- ➡ 6. Wrap the 2P connector with one small strip of foam tape. (Fig. H3)
7. Refit the under-dash cover. (Fig. H3)



Section II - Installation Procedure

I. Status Monitor Installation

FOR VEHICLES WITHOUT
IMMOBILIZER SYSTEM ONLY.

(Steps 1-9)

NOTE: The vehicle **must not** be equipped with seat heaters.

1. Remove the power outlet cover from the upper console panel. (Fig. I1)
 - i. From the backside of the upper console panel, push the left clip of the outlet cover inward to dislodge the outlet cover with the tip of the screwdriver.
 - ii. Squeeze the right clip and push out the outlet cover.
2. Remove the upper console box from the upper console assembly. (Fig. I2)
 - i. Remove the four screws securing the upper console assembly.
 - ii. Do not discard the screw.
3. Install the status monitor panel into the upper console panel. (Fig. I3)
 - i. Verify the panels fit together properly with no uneven gaps between them. If the panels are not fit properly together as shown in the close-up box, Figure I3, the panels may snap and break when proceeding with the next installation step.

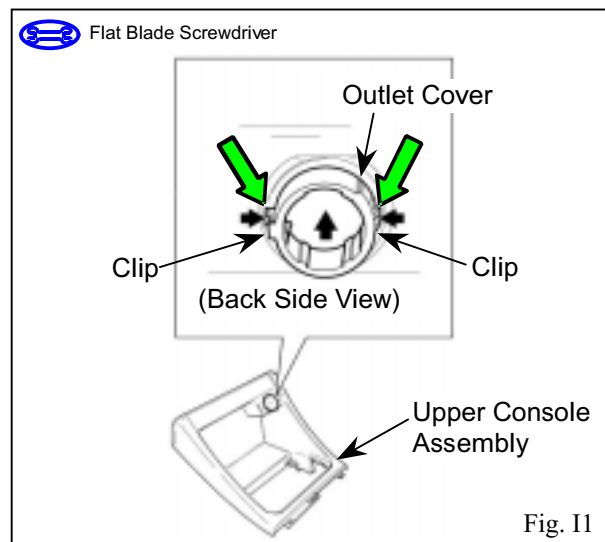


Fig. I1

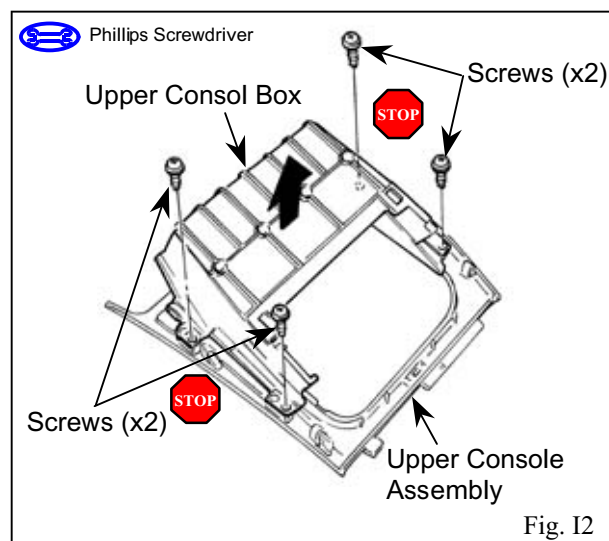


Fig. I2

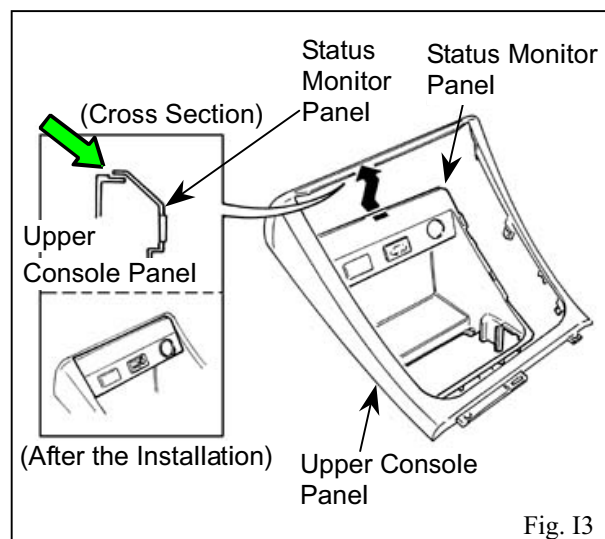
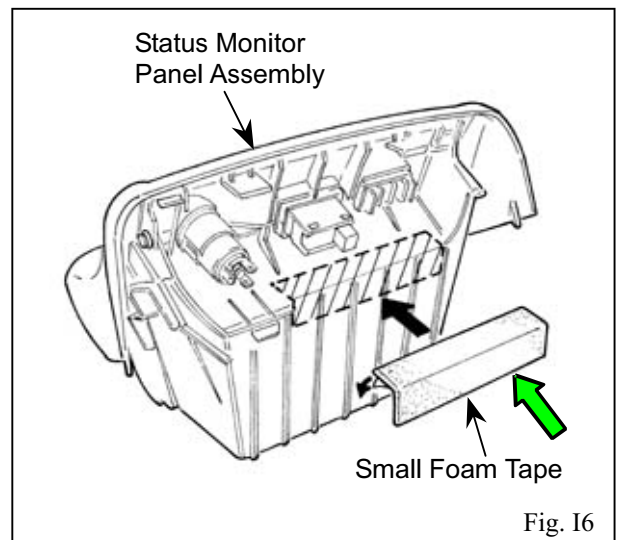
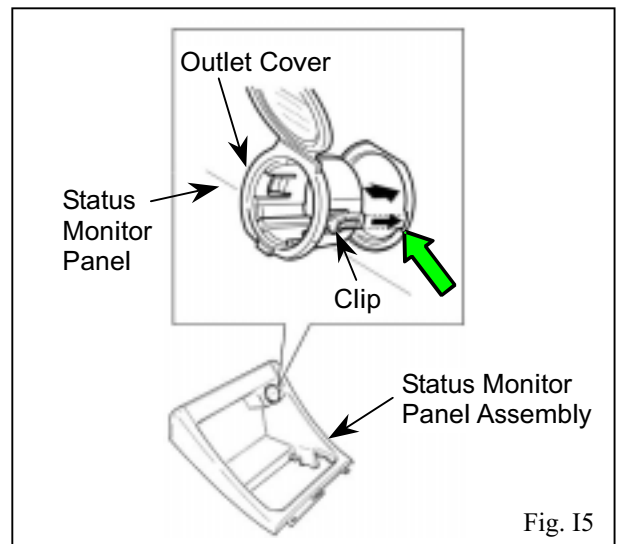
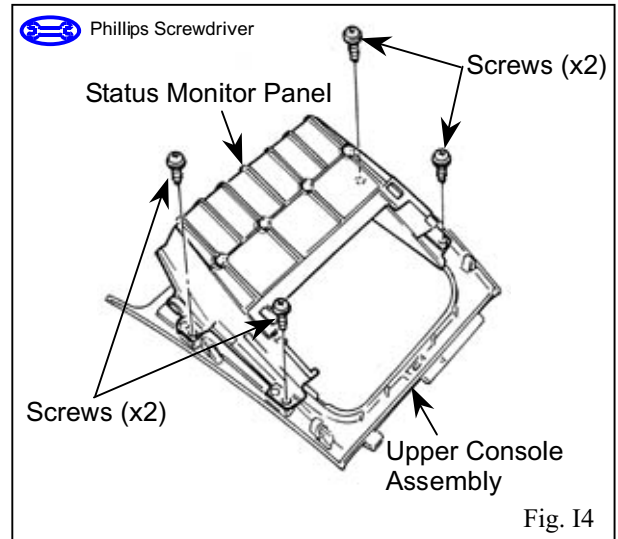


Fig. I3

Section II - Installation Procedure

4. Using the four screws, secure the status monitor panel to the upper console assembly. (Fig. I4)
5. Plug the outlet cover into replacement status monitor panel assembly provided in the kit. (Fig. I5)
 - i. Verify the outlet cover is being installed in the correct replacement status monitor panel provided in the kit.
6. Attach the backside of the status monitor panel assembly with one small strip of foam tape. (Fig. I6)
7. Plug in the V3 harness' white 2P connector to the status monitor. (Fig. I7)
 - i. Verify the connector is plugged in securely.



Section II - Installation Procedure

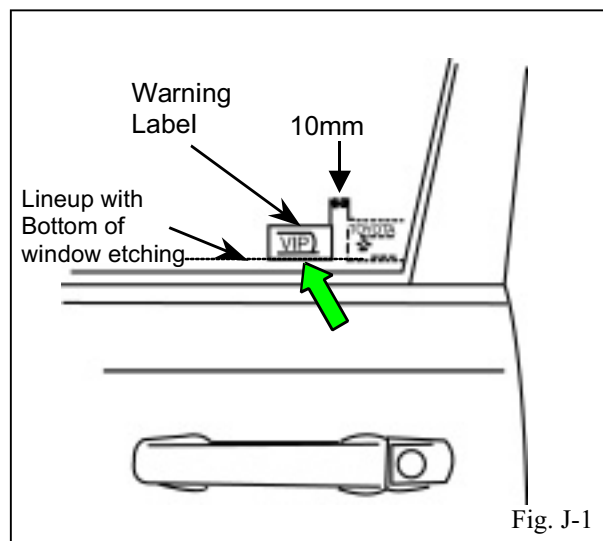
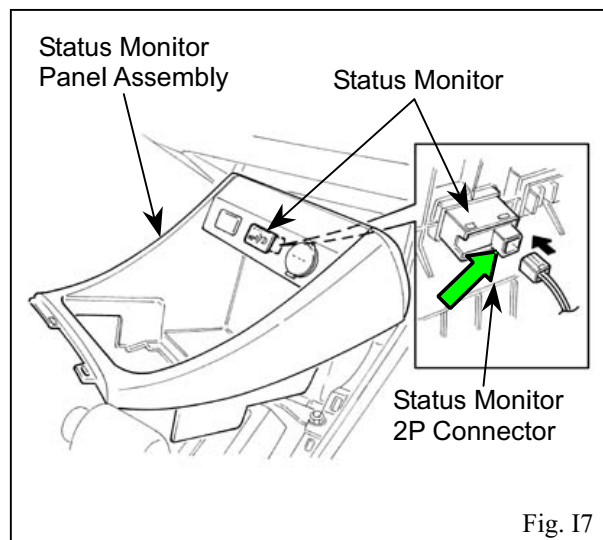
8. Reinstall the status monitor panel assembly into the center console. (Fig. I7)
- i. Reconnect the power outlet assembly.
9. Install the cup holder into the status monitor panel assembly. (Fig. I7)

J. Warning Label Installation

1. Using 3M™ Prep Solvent-70, clean the inside surface of the front door's windows. (Fig. J1)
- i. When cleaning with 3M™ Prep Solvent-70 follow the manufacturer's directions. Do not allow cleaner to air dry.
2. Place the warning label on the inside surface of the front door's windows as shown. (Fig. J1)
- i. Use a piece of clear adhesive tape to lift labels off of their protective backing sheet.
 - ii. Do not touch the adhesive surface of the warning labels.

K. Completing the Installation

1. Complete the reassembly of the vehicle.
- i. Reconnect any disconnected connectors.
 - ii. Verify the panels fit together properly with no uneven gaps between them.
2. Clean up and remove any trash.



Section II - Installation Procedure

3. Reconnect the vehicle's negative battery cable. (Fig. K1)



- i. Position the negative terminal at an angle of 90° to the battery as shown.



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



- iii. Be careful not to touch the positive battery terminal.

NOTE: The sunroof may not operate correctly when the battery has been disconnected (predominately an issue with Japan CBU Camry.)



4. Reset the factory sunroof (if applicable.)

- i. For All Japan built (CBU) 2002MY Camry vehicles do the following:
- (1) Remove the plastic roof protective polywrap covering, if present.
 - (2) Then normalize the sunroof as follows:
 - (3) Push and hold the switch to the "TILT UP" side until the sunroof tilts all the way up and then tilts down a little automatically (approx. 10mm at the rear.)
 - (4) When completed, make sure the sunroof is completely closed.
- ii. For all North American built 2002MY Camry vehicles, do **NOT** disconnect the battery within 10 seconds of shutting off the ignition switch. This will prevent the sunroof from needing to be reset.



5. Leave the owner's manual, warranty card, and remote controls in their protective bags and place them in the glove box.

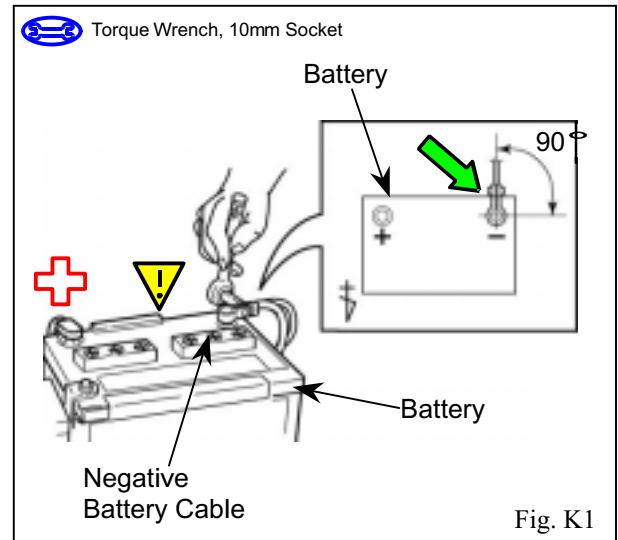


Fig. K1



Section III - Functional Verifications

Check: _____Accessory Function Checks

- ☐ Press and release the remote control's lock button to start the system's arming process.
 - ☐ Wait 30 seconds.
 - ☐ Press and release the remote control's unlock button to disarm the system.
 - ☐ Press and release the remote control's unlock button again within 3 seconds of disarming the system.
- Open and close the driver's door.**
- ☐ Arm and disarm the system with the remote again, then wait 30 seconds.
 - ☐ Press and release the remote control's unlock button again to stop the arming process.
 - ☐ Open the driver's door, then press and release the remote control's lock button.
 - ☐ Close the driver's door.

Look for: _____

1. The tail and marker lights flash once.
The buzzer chirps once.
All doors lock.
The Status Monitor's LED lights up.
2. After 30 seconds, the LED starts flashing;
the system is now armed.
3. The tail and marker lights flash twice.
The buzzer chirps twice.
The interior lights turn on for thirty seconds.
The driver's door unlocks.
The Status Monitor's LED stops flashing.
4. The tail and marker lights flash twice.
The buzzer chirps twice.
All remaining doors unlock.
5. The doors automatically relock.
The system automatically starts the arming process.
6. Refer to step number 3.
7. The buzzer sounds continuously for 5 seconds.
8. The buzzer stops sounding.



Section III - Functional Verifications

Check:

- ☐ Press and release the remote control's panic button to trigger the panic alarm.

- ☐ Press and release the remote control's panic button again to stop the panic alarm.

Sit in the driver's seat and make sure all doors are closed.

- ☐ Insert the key into the ignition switch and turn it to **ON**.

Roll down all the windows.

- ☐ Turn the key back to **LOCK**.

Remove the key and exit the vehicle.

- ☐ Insert the key into the driver's door key cylinder and turn it toward the front of the vehicle to start the arming process.

- ☐ Wait 30 seconds.

- ☐ Reach inside and manually unlock the driver's door.

Look for:

9. The horn sounds repeatedly.
The interior lights turn on.
The headlights flash repeatedly.
The tail and marker lights flash repeatedly.
The status Monitor LED lights up.
10. The horn stops sounding.
All the lights stop flashing and/ or turn off.
11. All doors lock.
12. All doors unlock.
13. All doors lock.
The LED lights up.
14. After 30 seconds, the LED starts flashing;
the system is now armed.
15. The driver's door automatically relocks.
The horn sounds repeatedly.
The interior lights turn on.
The headlights flash repeatedly.
The tail and marker lights flash repeatedly.
The LED lights up.



Section III - Functional Verifications

Check:

- ☐ Manually unlock the driver's door again and *hold it unlocked*, open the door, then sit in the driver's seat.

- ☐ Insert the key into the ignition switch and turn it to **START** to stop the alarm.

Turn the key back to **LOCK, remove it, and then exit the vehicle.**

- ☐ With the door open, press the lock switch on the door to lock the doors, then close the door to start the system's arming process.
- ☐ Wait 30 seconds.
- ☐ Reach inside and manually unlock the front passenger's door to trigger an alarm.

Look for:

16. The driver's door lock attempts to lock repeatedly.
The horn continues to sound repeatedly.
The interior lights remain on.
The headlights, tail lights and marker lights continue flashing.
The LED remains on.
17. The horn stops sounding.
All the lights stop flashing and/or turn off, but immobilizer system's LED remains on.
The Status Monitor LED turns off.
The starter cranks and the engine starts.
18. All doors lock.
The Status Monitor's LED or immobilizer system's lights up.
19. After 30 seconds, the LED starts flashing; the system is now armed.
20. The front passenger's door automatically relocks.
The horn sounds repeatedly.
The interior lights turn on.
The headlights flash repeatedly.
The tail and marker lights flash repeatedly.
The LED lights up.



Section III - Functional Verifications

Check:

- ☐ Press and release the remote control's unlock button to stop the alarm.
- ☐ Press and release the remote control's lock button to start the system's arming process, then wait 30 seconds until the system is armed.
- ☐ Unlock and open one of the rear passenger doors to trigger an alarm.
- ☐ Repeat the above steps with the other rear passenger and back door (if equipped).

Roll up all windows, remove the key and exit the vehicle.

- ☐ Press and release the remote control's lock button to start the system's arming process.
- ☐ Wait 30 seconds.

Perform the following check in a temperature-controlled environment (50° ± 90° F.)

- ☐ With the tip of key, tap the center of the driver's door window to trigger the alarm.

Look for:

- 21. The horn stops sounding.
All the lights stop flashing and/ or turn off.
The Status Monitor's LED turns off, but an immobilizer's LED remains on.
- 22. Refer to step number 1 and number 2.
- 23. Refer to step number 9.
- 24. Refer to step number 22 and 23.
- 25. Refer to step number 1.
- 26. After 30 seconds, LED starts flashing; the system is now armed.
- 27. The horn sounds repeatedly.
The headlights flash repeatedly.
The tail and marker lights flash repeatedly.
The LED lights up.



Section III - Functional Verifications

Check:

- ☐ Insert the key into the driver's door key cylinder and turn it toward the back of the vehicle to stop the alarm.

Look for:

NOTE: Adjust as necessary by increasing the GBS setting to the next level if the alarm does not trigger during the functional verifications.

NOTE: If you do not disarm the system, the alarm will last 20 seconds. *It is not necessary to check the alarm duration.*

28. The horn stops sounding.

All the lights stop flashing and/or turn off.

The status monitor's LED turns off, but an immobilizer's remains on.

Vehicle Function Checks

- ☐ Perform standard electrical system function checks.

Confirm electrical system is functioning correctly.

PROGRAMMING TABLE OF CONTENTS

RS3200 PROGRAMMING	PAGE
ADD ADDITIONAL REMOTE CONTROL(S) TO SYSTEM	2, 3
REPROGRAM EXISTING REMOTE CONTROLS	4, 5
REMOTE CONTROL FUNCTION SELECT	6, 7
CLEAR ALL REMOTE CONTROL CODES	8
PASSIVE ARMING ON/ OFF SELECTION AND ENTRY DELAY TIME SELECTION	9
IGNITION-CONTROLLED AUTOMATIC DOOR LOCK/ UNLOCK	10
 RS3200 PLUS PROGRAMMING	
PASSIVE ARMING ON/ OFF SELECTION AND ENTRY DELAY TIME SELECTION	11

Notes:

For factory remote keyless entry system programming information, refer to the vehicle's repair manual.

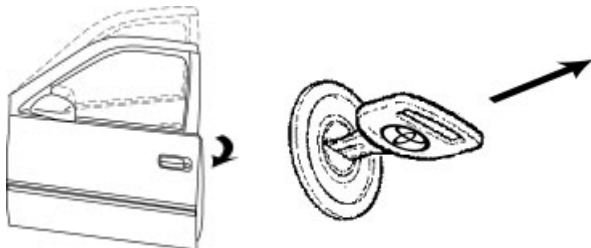
Refer to the RS3000 Owner's guide for RS3000 feature programming.

ADD ADDITIONAL REMOTE CONTROL(S) TO SYSTEM

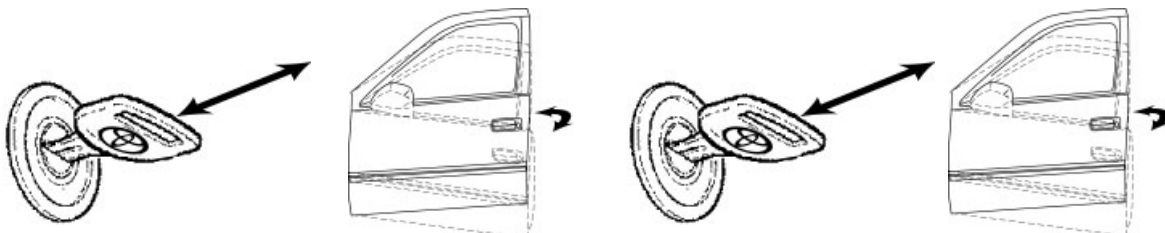
Follow this procedure to add *additional* remote controls to a system. The RS3200 may be programmed to operate with a maximum of four remote controls. When a new remote controls is programmed, it will work in the default operation mode (press the UNLOCK button twice to unlock all doors and no AUX button function on 4 button remote controls); to change the operation mode, you must perform the separate REMOTE CONTROL FUNCTION SELECT procedure as shown on pages 6 and 7.

1. Before you begin:

Open the driver's door and remove the key from the ignition switch.



2. Start the programming procedure. (Complete these steps within 40 seconds.)

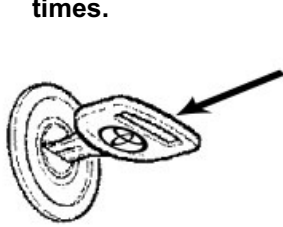


a. Insert the key into, and remove it from the ignition switch 2 times.

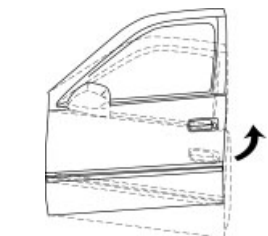
b. Close, then open the driver's door 2 times.

c. Insert the key into, and remove it from the ignition switch 1 time.

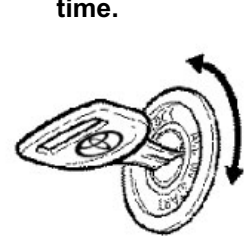
d. Close, then open the driver's door 2 times.



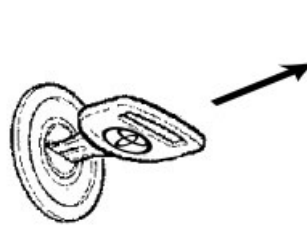
e. Insert the key into, the ignition switch and leave it in.



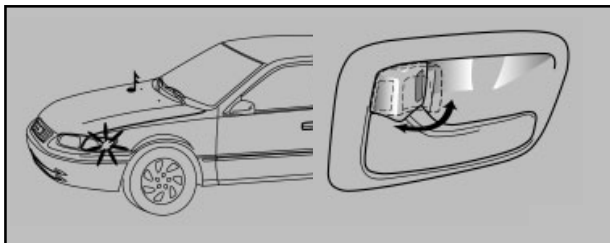
f. Close the driver's door.



g. Turn the key from LOCK to ON, then back to LOCK.

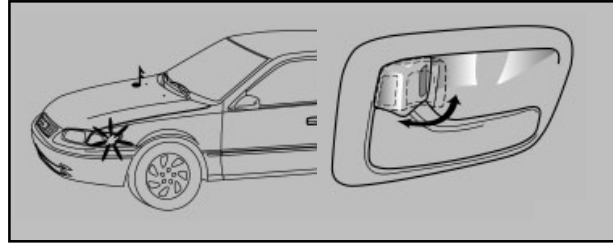
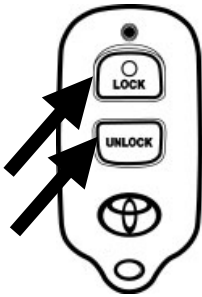


h. Remove the key from the ignition switch.



i. The tail and marker lights flash 1 time, the buzzer chirps 1 time and the doors lock and unlock 1 time.*

* If the system does not activate the lights, buzzer and door locks 1 time, start over.

ADD ADDITIONAL REMOTE CONTROL(S) TO SYSTEM (continued)**3. Program (add) an additional remote control.**

a. Press and release both the LOCK and UNLOCK buttons on one remote control at the same time.

b. Press and release the LOCK button.

c. The tail and marker lights flash 1 time, the buzzer chirps 1 time, and the doors lock and unlock 1 time.*

Note: Repeat the above steps to add additional remote controls.

4. Complete the programming steps.

a. Open the driver's door

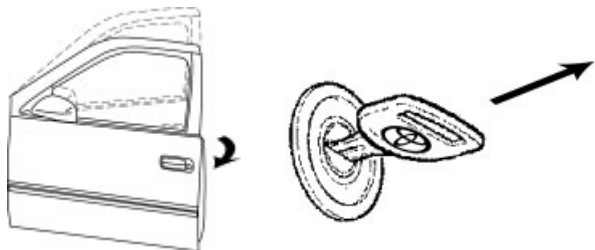
* If the system activates the lights, buzzer and door locks 2 times, start over.

REPROGRAM EXISTING REMOTE CONTROLS

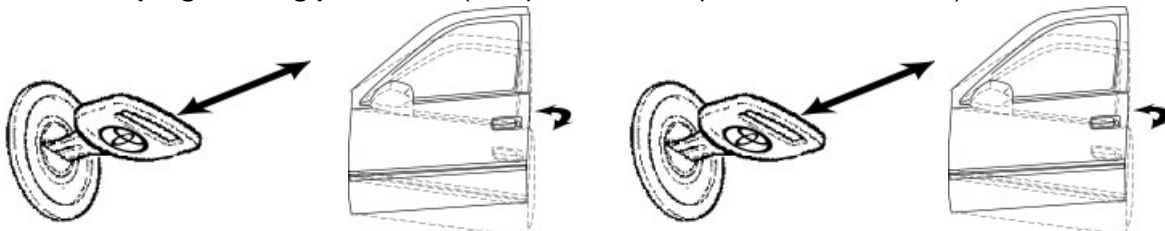
Follow this procedure to clear all existing remote control codes and reprogram existing remote controls to a system. When existing remote controls are reprogrammed, they will work in the default operation mode (press the UNLOCK button twice to unlock all doors and no AUX button function on 4 button remote controls); to change the operation mode, you must perform the separate REMOTE CONTROL FUNCTION SELECT procedure as shown on pages 6 and 7.

1. Before you begin:

Open the driver's door and remove the key from the ignition switch.



2. Start the programming procedure. (Complete these steps within 40 seconds.)

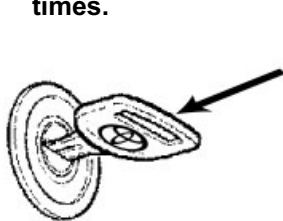


a. Insert the key into, and remove it from the ignition switch 2 times.

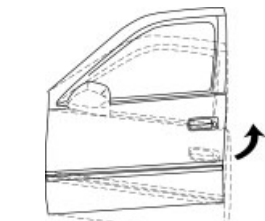
b. Close, then open the driver's door 2 times.

c. Insert the key into, and remove it from the ignition switch 1 time.

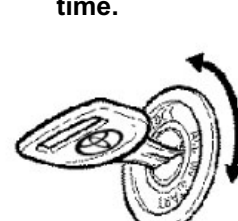
d. Close, then open the driver's door 2 times.



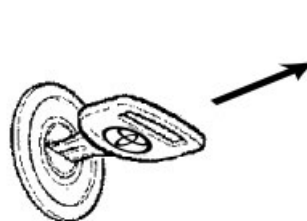
e. Insert the key into, the ignition switch and leave it in.



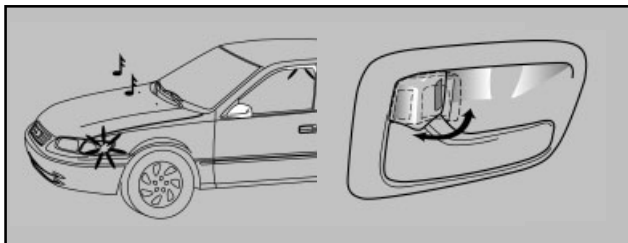
f. Close the driver's door.



g. Turn the key from LOCK to ON 2 times (ending at LOCK).

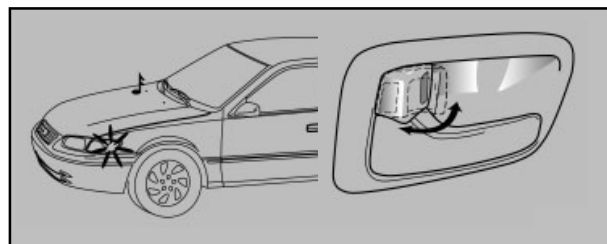


h. Remove the key from the ignition switch.



i. The tail and marker lights flash 2 times, the buzzer chirps 2 times and the doors lock and unlock 2 times.*

*If the system does not activate the lights, buzzer and door locks 2 times, start over.

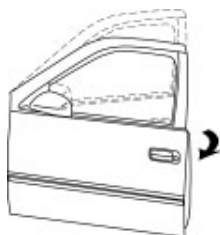
REPROGRAM EXISTING REMOTE CONTROLS (continued)**3. Reprogram an existing remote control.**

a. Press and release both the LOCK and UNLOCK buttons on one remote control at the same time.

b. Press and release the LOCK button.

c. The tail and marker lights flash 1 time, the buzzer chirps 1 time, and the doors lock and unlock 1 time.*

Note: Repeat the above steps to program (add) additional remote controls.

4. Complete the programming steps.

a. Open the driver's door

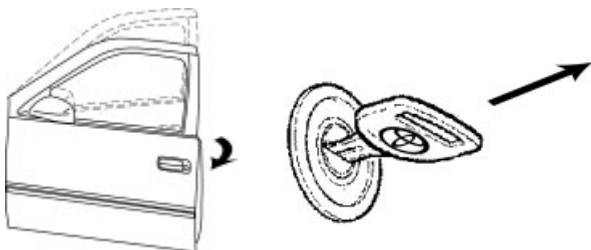
* If the system activates the lights, buzzer and door locks 2 times, start over.

REMOTE CONTROL FUNCTION SELECT

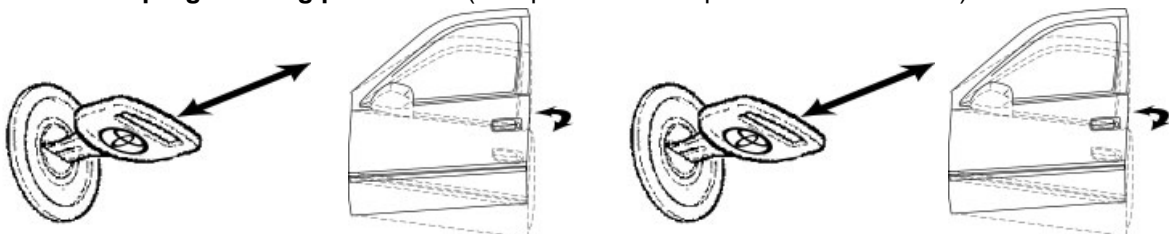
Follow this procedure to change the operating functions of remote controls already programmed into a system. You may change the remote control's default unlock operation mode so that pressing the UNLOCK button once causes all doors to unlock at the same time. Also, you may activate the AUX button function on 4 button remote controls.

1. Before you begin:

Open the driver's door and remove the key from the ignition switch.



2. Start the programming procedure. (Complete these steps within 40 seconds.)

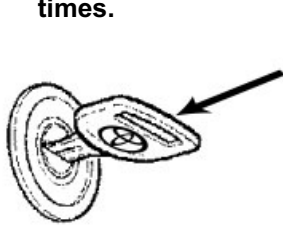


a. Insert the key into, and remove it from the ignition switch 2 times.

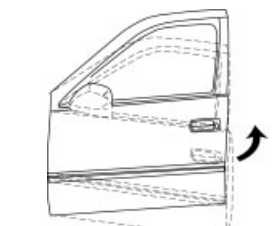
b. Close, then open the driver's door 2 times.

c. Insert the key into, and remove it from the ignition switch 1 time.

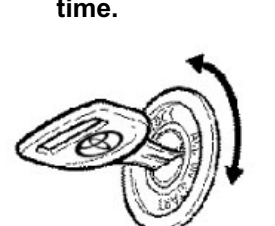
d. Close, then open the driver's door 2 times.



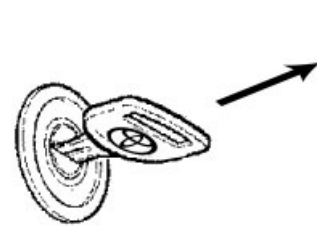
e. Insert the key into, the ignition switch and leave it in.



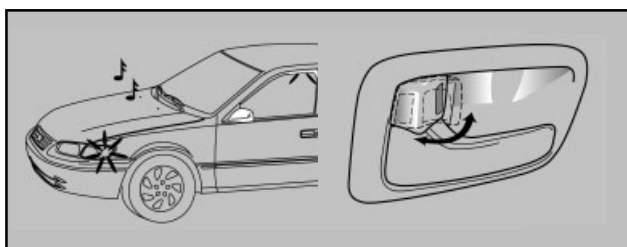
f. Close the driver's door.



g. Turn the key from LOCK to ON 4 times (ending at LOCK).



h. Remove the key from the ignition switch.



i. The tail and marker lights flash 4 times, the buzzer chirps 4 times and the doors lock and unlock 4 times.*

* If the system does not activate the lights, buzzer and door locks 4 times, start over.

REMOTE CONTROL FUNCTION SELECT (continued)

3. Select the operating functions for an existing remote control.



a. **Press and release both the LOCK and UNLOCK buttons** on one remote control **at the same time.**

b. **Select one of the following modes:**



Press and release the LOCK button to select double unlock function (press the UNLOCK button twice to unlock all the doors.)



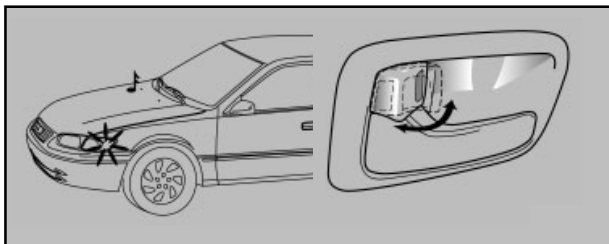
or Press and release the UNLOCK button to select all door unlock function (press the UNLOCK button once to unlock all the doors at the same time.)



or Press and release the AUX button to select double unlock function (press the UNLOCK button twice to unlock all the doors) and **activate the auxiliary output** for the optional electric trunk release accessory.*



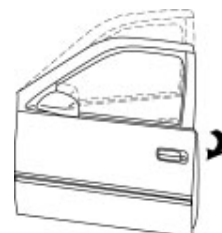
or Press and release the PANIC button to select all door unlock function (press the UNLOCK button once to unlock all the doors at the same time) and **activate the auxiliary output** for the optional electric trunk release accessory.*



c. **The tail and marker lights flash 1 time, the buzzer chirps 1 time, and the doors lock and unlock 1 time.**✦

Note: Repeat the above steps to select the operating functions for additional remote controls.

4. Complete the programming steps.



a. **Open the driver's door**

* Program for 4 button remote controls, **only.**

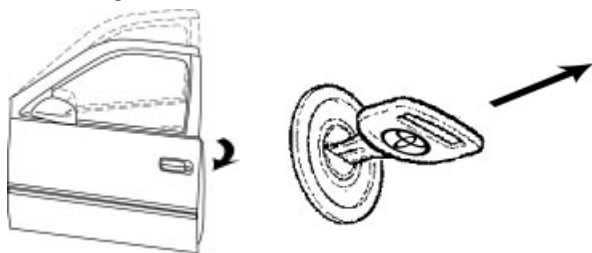
✦ If the system activates the lights, buzzer and door locks 2 times, start over.

CLEAR ALL REMOTE CONTROL CODES

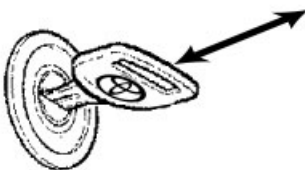
Follow this procedure to clear all remote controls programmed to operate the system. Please note, if you have remote controls to program into the system and you want to first clear all existing remote controls from the system, follow the reprogram procedure as shown on pages 4 and 5.

1. Before you begin:

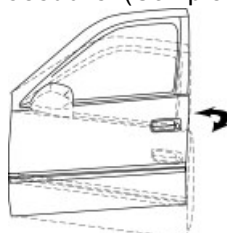
Open the driver's door and remove the key from the ignition switch.



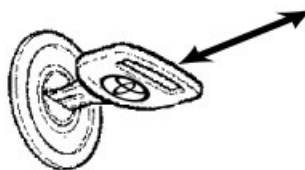
2. Start the programming procedure. (Complete these steps within 40 seconds.)



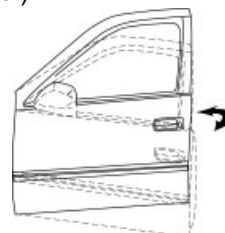
a. Insert the key into, and remove it from the ignition switch 2 times.



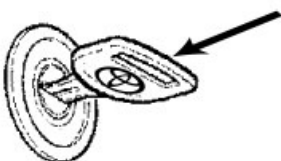
b. Close, then open the driver's door 2 times.



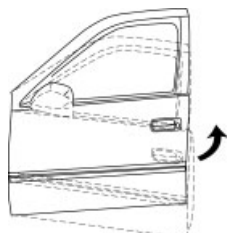
c. Insert the key into, and remove it from the ignition switch 1 time.



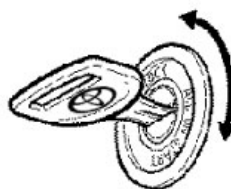
d. Close, then open the driver's door 2 times.



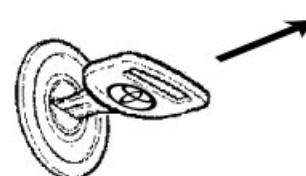
e. Insert the key into, the ignition switch and leave it in.



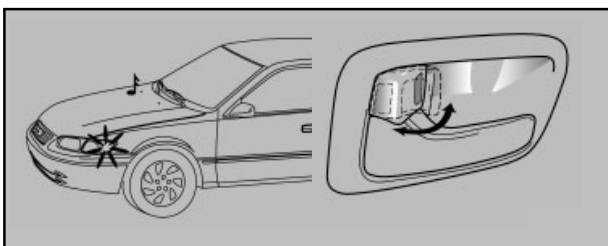
f. Close the driver's door.



g. Turn the key from LOCK to ON 5 times (ending at LOCK).

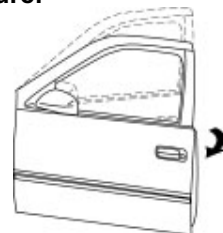


h. Remove the key from the ignition switch.



i. The tail and marker lights flash 5 times, the buzzer chirps 5 times and the doors lock and unlock 5 times.*

3. Complete the code clearing procedure.



a. Open the driver's door

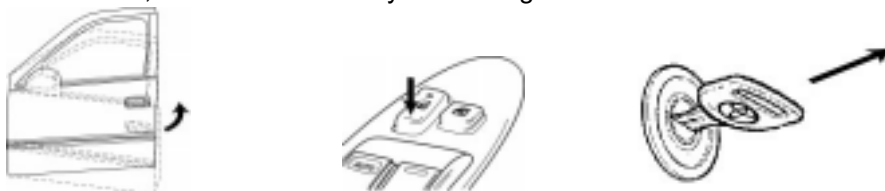
* If the system does not activate the lights, buzzer and door locks 5 times, start over.

PASSIVE ARMING ON/ OFF SELECTION AND ENTRY DELAY TIME SELECTION

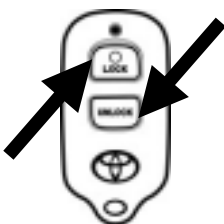
The RS3200 is factory set to not passively arm. To change the system's operation for passive arming, as well as to adjust the entry delay time, follow the procedure below.

1. Before you begin:

Close all the doors and the trunk or hatch, unlock all the doors with the inside lock switch, then remove the key from the ignition switch.



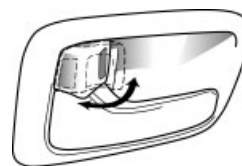
2. Start the programming procedure. (Complete these steps within 30 seconds.)



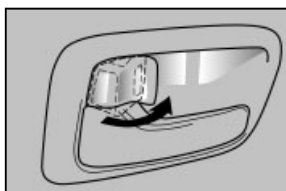
a. Using a remote control, **lock**, then **unlock** the doors **3 times**.



b. **Open** the driver's door.



c. **Lock**, then **unlock** the driver's door **inside lock button 3 times**.

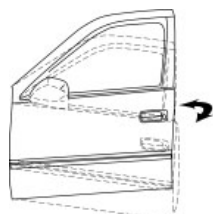


d. The system locks the door in 2 seconds; if this does not happen, start over.



e. **Unlock** the driver's door **inside lock button**.

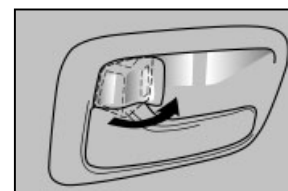
3. Select the operating mode and entry time delay, and complete the programming steps.



a. **Close**, then **open** the door:
 2 times= passive arming **off**
 3 times= passive arming **on**, 0 sec. entry delay.
 4 times= passive arming **on**, 15 sec. entry delay.
 5 times= passive arming **on**, 30 sec. entry delay.



b. **Lock**, then **unlock** the driver's door **inside lock button 1 time**.



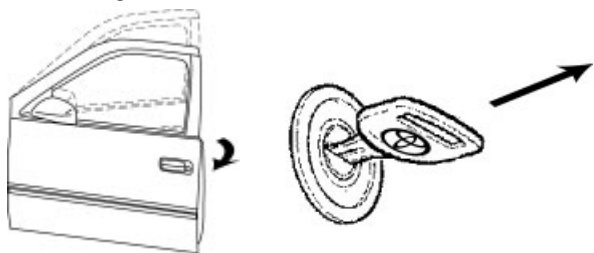
c. The system locks the door in 2 seconds; Programming is now complete. If this does not happen, start over.

IGNITION-CONTROLLED AUTOMATIC DOOR LOCK/ UNLOCK

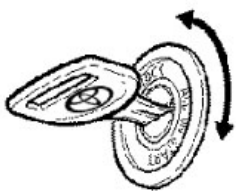
When all doors are closed, the RS3200 is factory set to automatically lock the vehicle's door when the ignition key is turned to ON or START, and unlock them (open or not) when the key is turned back to ACC or LOCK. Follow the procedure below to change this feature's operation mode.

1. Before you begin:

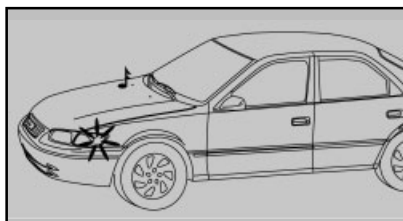
Open the driver's door and remove the key from the ignition switch.



2. Start the programming procedure. (Complete these steps within 30 seconds.)



- a. Insert the key into the ignition switch and **turn it from LOCK to ON 5 times** (ending at ON).



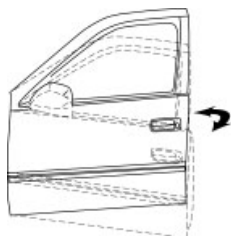
- b. **The tail and marker lights flash 1 time, and the buzzer chirps 1 time.**



- c. **The status monitor's LED (or the engine immobilizer system's LED) turns on for 30 seconds.**

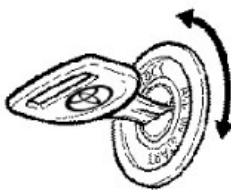
Note: If the system does not activate the lights and buzzer, start over.

3. Select the operating mode and complete the programming steps.

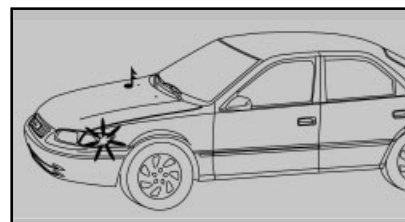


- a. **Close the door: Ignition controlled door locks on.**

Close, then open and close the door: Ignition controlled door locks off.



- b. **Turn the ignition key back to lock.**



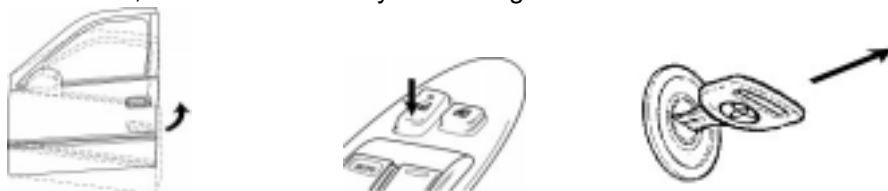
- b. **The tail and marker lights flash 1 time, and the buzzer chirps 1 time if the system was set for IG door lock control ON, twice for IG door lock control OFF.** If this does not happen, start over: otherwise, programming is now complete.

PASSIVE ARMING ON/ OFF SELECTION AND ENTRY DELAY TIME SELECTION

The RS3200 PLUS is factory set to not passively arm. To change the system's operation for passive arming, as well as to adjust the entry delay time, follow the procedure below.

1. Before you begin:

Close all the doors and the trunk or hatch, unlock all the doors with the inside lock switch, then remove the key from the ignition switch.



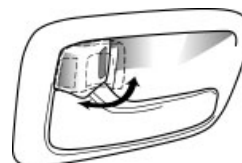
2. Start the programming procedure. (Complete these steps within 30 seconds.)



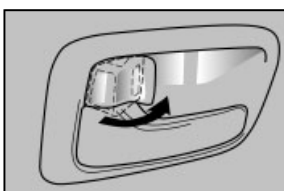
a. Using a remote control, lock, then unlock the doors 3 times.



b. Open the driver's door.



c. Lock, then unlock the driver's door inside lock button 3 times.

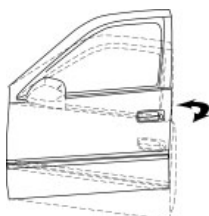


d. The system locks the door in 2 seconds; if this does not happen, start over.

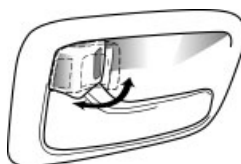


e. Unlock the driver's door inside lock button.

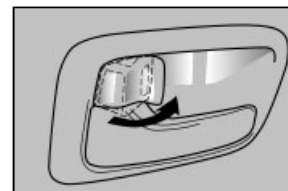
3. Select the operating mode and entry time delay, and complete the programming steps.



a. Close, then open the door:
 2 times= passive arming off
 3 times= passive arming on, 0 sec. entry delay.
 4 times= passive arming on, 15 sec. entry delay.
 5 times= passive arming on, 30 sec. entry delay.



b. Lock, then unlock the driver's door inside lock button 1 time.



c. The system locks the door in 2 seconds; Programming is now complete. If this does not happen, start over.