

Part Number: 08586-34861
Section I - Installation Preparation

Kit Contents

Item #	Quantity Req'd.	Description
1	1	Wire Harness
2	1	Status Monitor
3	1	Piezo Buzzer
4	1	ECU Mounting Bracket

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	3	Large Foam Tape Strip (2 pcs.)
2	1	Small Foam Tape Strip
3	10	Large Wire Ties
4	15	Medium Wire Ties
5	3	ECU Bracket Mounting Screws
6		

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1	1	V3 Base Kit (08585-00921)
2		
3		

Conflicts

Note:

Recommended Tools

Safety Tools	
Safety Glasses	(Optional)
Safety Gloves	(Optional)
Vehicle Protection	Blankets, Part Boxes
Special Tools	
Striker Tool	
Installation Tools	
Phillips Head Screwdrivers	#1 and #2, screwdrivers or tips
Small, Flat Blade Screwdriver	
10 mm Socket	
Pneumatic/Electric Wrench	
Torque Wrench	
Nylon Panel Removal Tool	
Side Cutters	
Utility Knife	
Special Chemicals	
Windex	

Color Applicability/Trim Level

Vehicle/Trim Color	Accessory Color																			

General Applicability


2000 - Tundra with power door locks, <i>only</i> .
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Recommended Sequence of Application


Item #	Accessory	
1	V3	
2	Wood Dash	
3	Fog Lights	


*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.

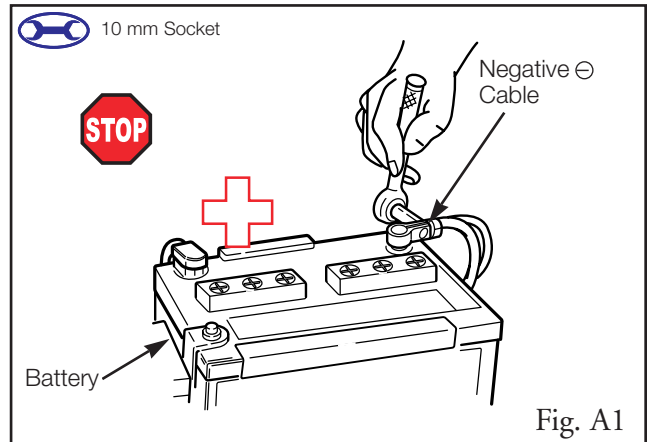
 **TOOLS & EQUIPMENT:** This calls out the specific tools and equipment required for this process.

A. Vehicle Disassembly

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



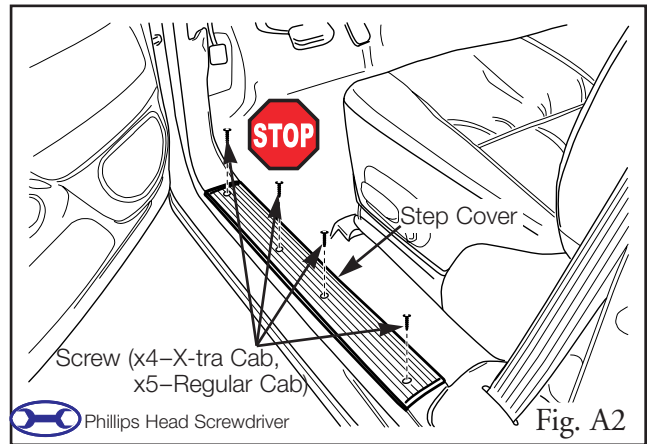
- i. Protect the fender before starting.
- ii. Be careful to not touch the positive terminal.



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



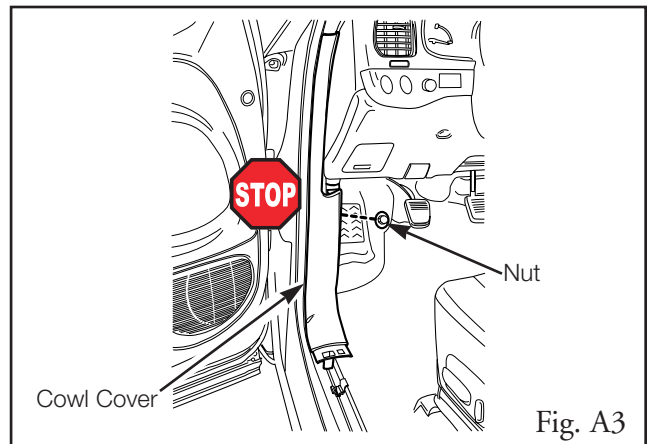
- i. Remove the four or five screws securing the cover.
- ii. Do not scratch the cover.
- iii. Do not break the alignment clips when reinstalling the step cover; align them with the holes before pressing the step cover down.



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



- i. Remove the nut securing the cover.
- ii. Protect the floor and seat before proceeding.
- iii. Do not scratch the cover.



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

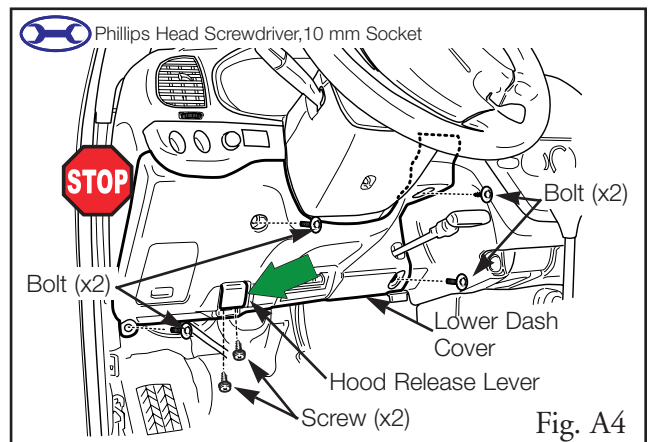
- i. Remove the two screws securing the hood release lever.

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

- i. Remove the four bolts securing the lower dash cover.



- ii. Do not scratch the cover.

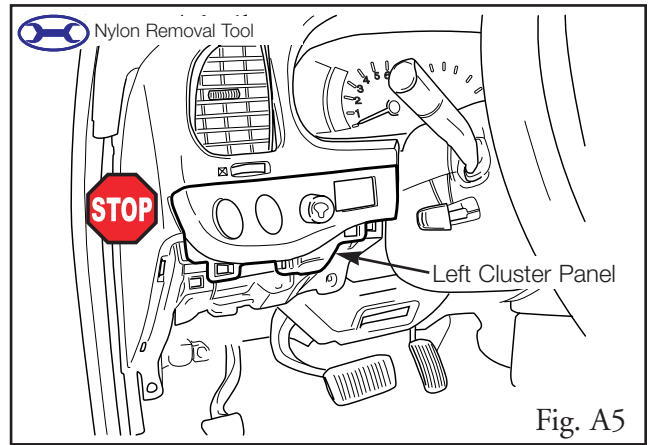


6. Remove the left cluster panel. (Fig. A5)

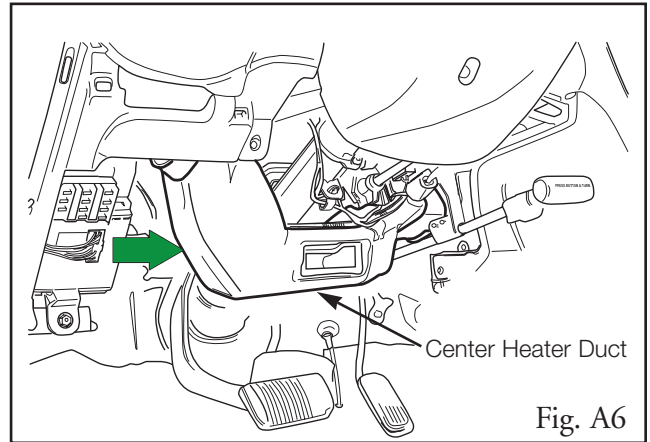
i. Disconnect any connectors.



ii. Do not scratch the panel.



➔ 7. Remove the center heater duct. (Fig. A6)



B. V3 ECU Preparation and Installation

- ➔ 1. Using the three provided screws, attach the ECU mounting bracket to the back of the V3 ECU as shown. (Fig. B1)
 - i. Lay the V3 ECU face down with the connectors facing the right.
 - ii. Lay the bracket on top of the ECU as shown, with the tab on the right and the lip of the bracket covering the edge of the ECU.

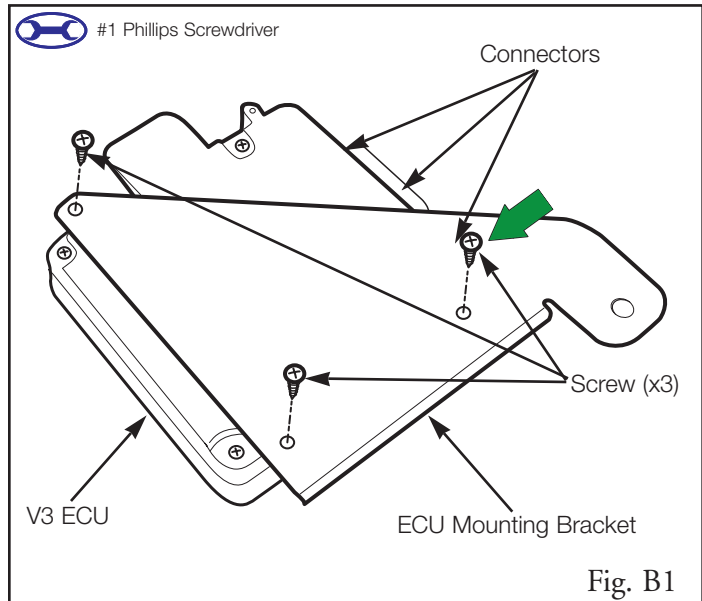


Fig. B1

- 2. Using two large strips of foam tape, cover the edge of the V3 ECU and mounting bracket opposite the ECU connectors as shown. (Fig. B2)

- ➔ i. Wrap the foam tape around the edge and on to the top surface of the ECU.

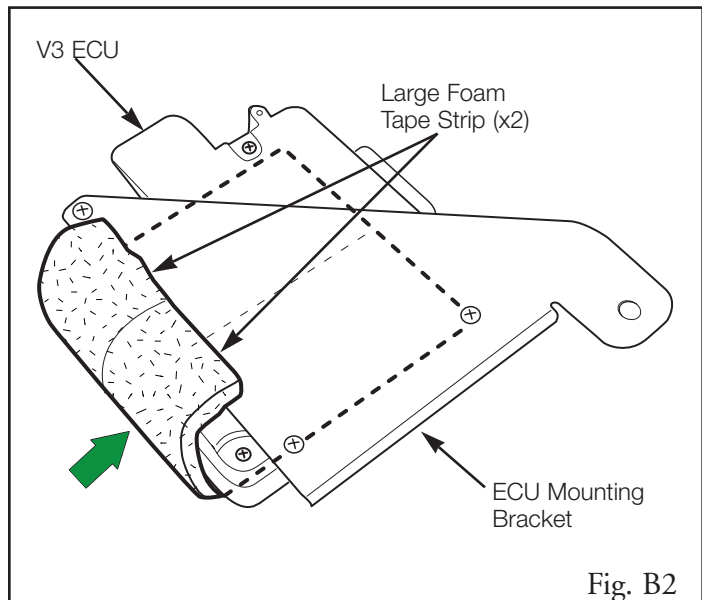


Fig. B2

- 3. Using two large strips of foam tape, cover the edges of the V3 ECU and ECU mounting bracket as shown. (Fig. B3)

- ➔ i. Cover the edge of V3 ECU and mounting bracket where the connectors come out, and the side opposite the ECU connectors.

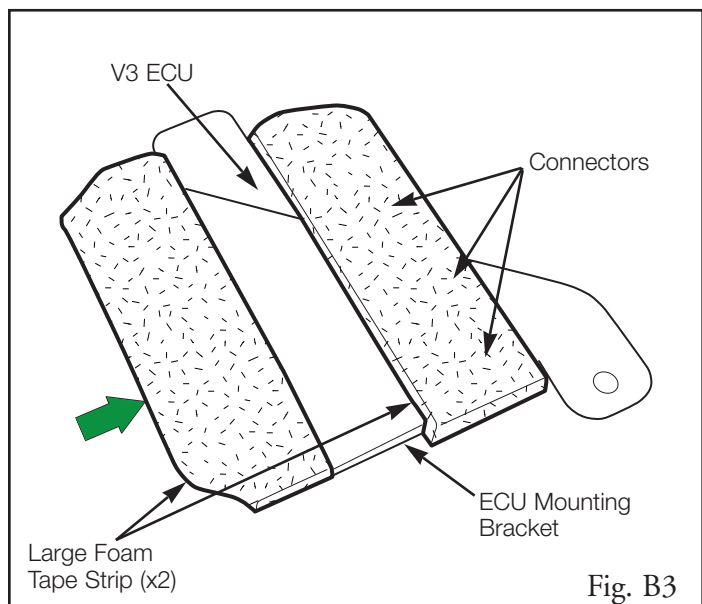
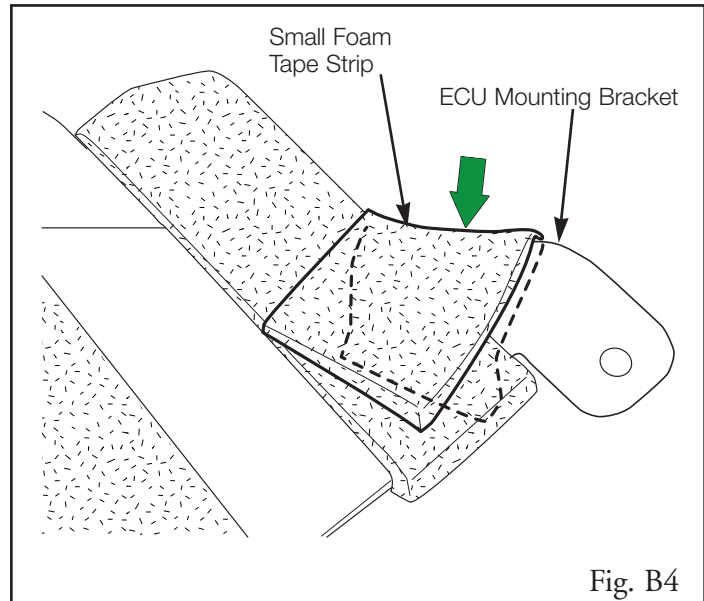
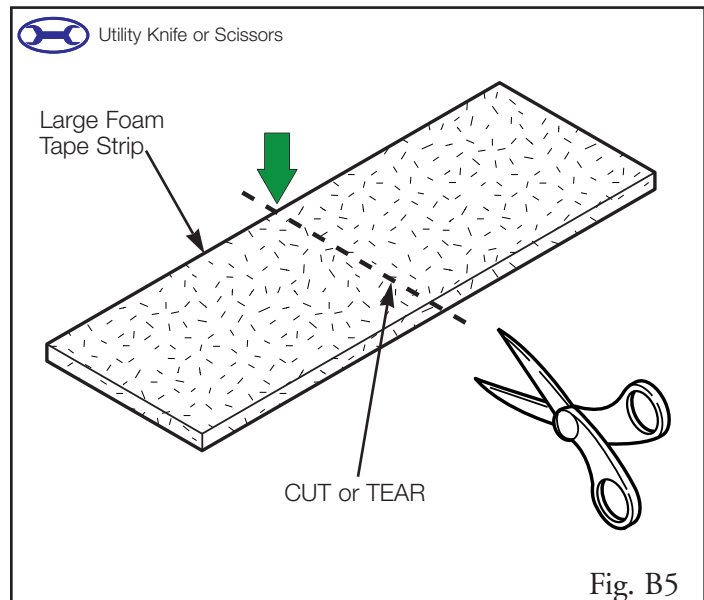


Fig. B3

- ➔ 4. Using a small strip of foam tape, wrap the edge of the mounting bracket's tab as shown. (Fig. B4)

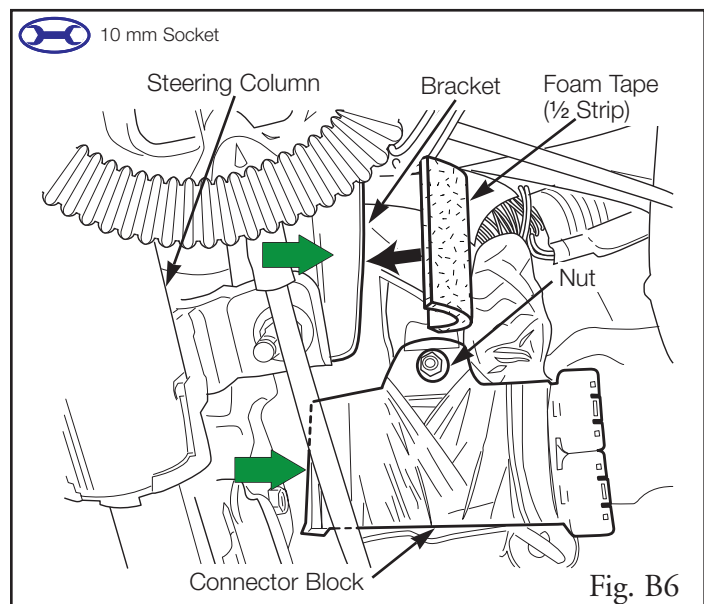


- ➔ 5. Cut or tear one large strip of foam tape in half. (Fig. B5)



- ➔ 6. Remove the connector block mounted against the fire wall to the right side of the steering column. (Fig. B6)
 - i. Remove the nut securing the connector block.

- ➔ 7. Using a 1/2 strip of foam tape, cover the edge of the indicated metal bracket near the steering column. (Fig. B6)



8. Connect the V3 harness' ECU connectors (10P, 10P, 4P) to the V3 ECU. (Fig. B7)



- i. Verify the connectors are plugged into the ECU securely.

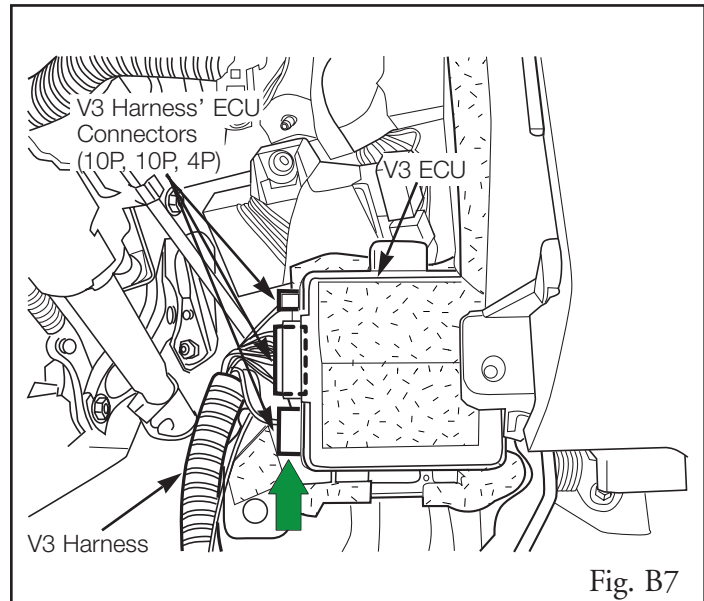


Fig. B7



9. With the connectors facing left, slide the ECU mounting bracket over the existing stud bolt, then secure it and connector block with the previously removed nut. (Fig. B8)



- i. Verify the nut is tightened securely.

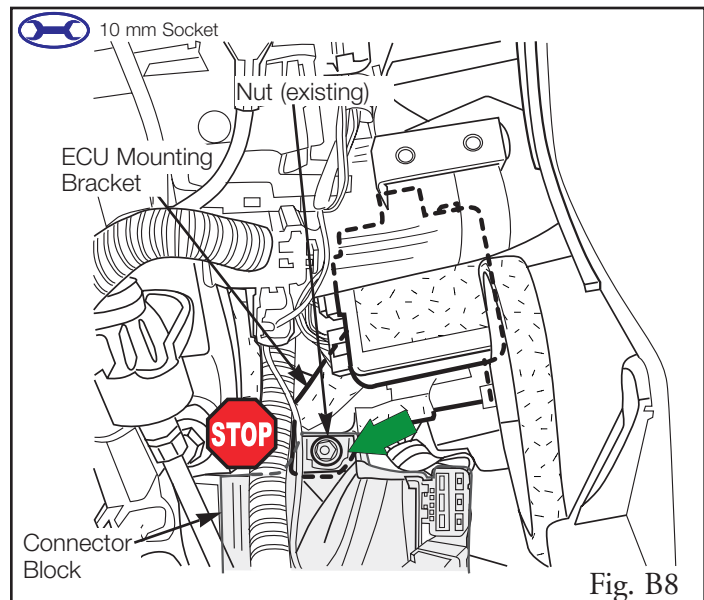
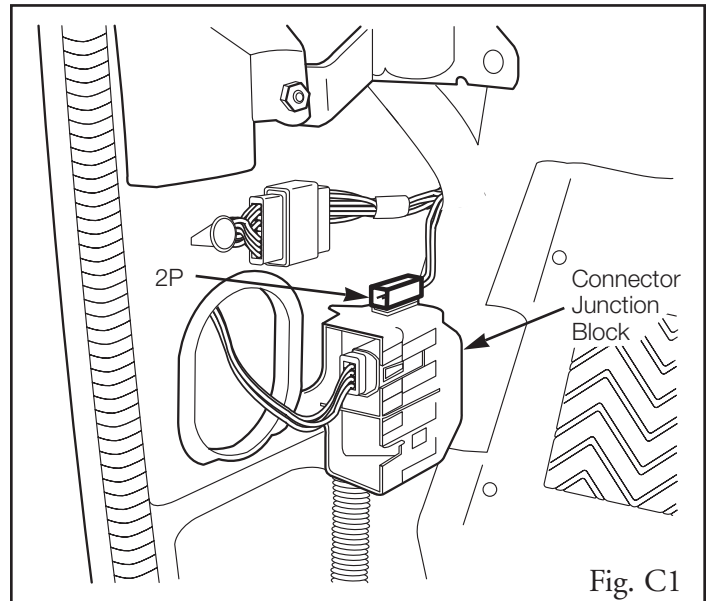


Fig. B8

C. V3 Harness and GBS ECU Installation

1. Locate the vehicle harness' 2P connector on top of the connector junction block in the driver's cowl area. (Fig. C1)



2. Plug the V3 harness' 2P female (terminals) connector into the vehicle's 2P connector. (Fig. C2)



- i. Verify the connector is plugged in securely.

3. Route the V3 harness up toward the Driver Side J/B and secure it to the vehicle's harness with three medium wire ties. (Fig. C2)



- i. Route and secure the V3 harness so that it does not touch the metal bracket.

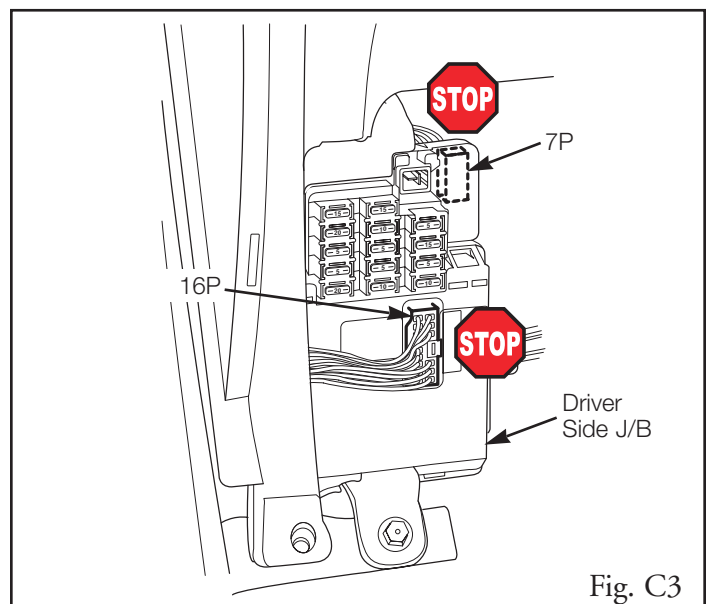
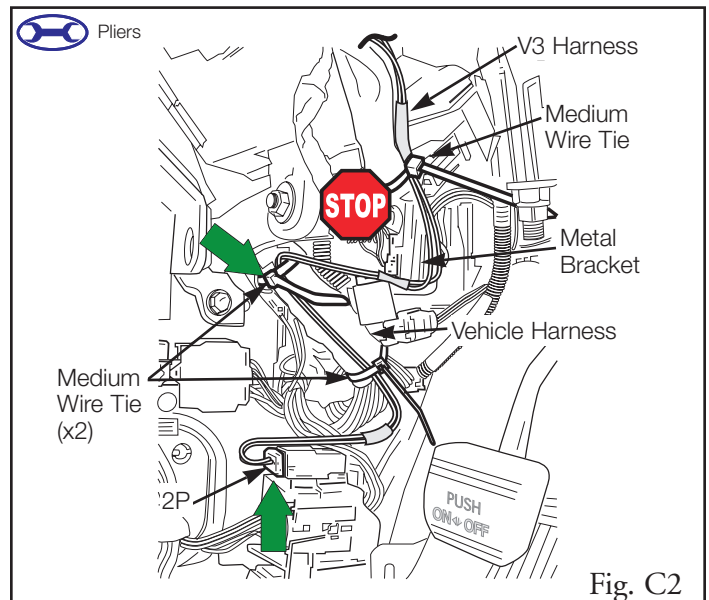


- ii. Clip the wire ties.

4. Disconnect the vehicle harness' 16P and 7P connectors from the Driver Side J/B. (Fig. C3)



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



5. Plug in the V3 harness' 16P connectors between the vehicle harness' 16P connector and the Driver Side J/B. (Fig. C4)



- i. Verify the connectors are plugged in securely.

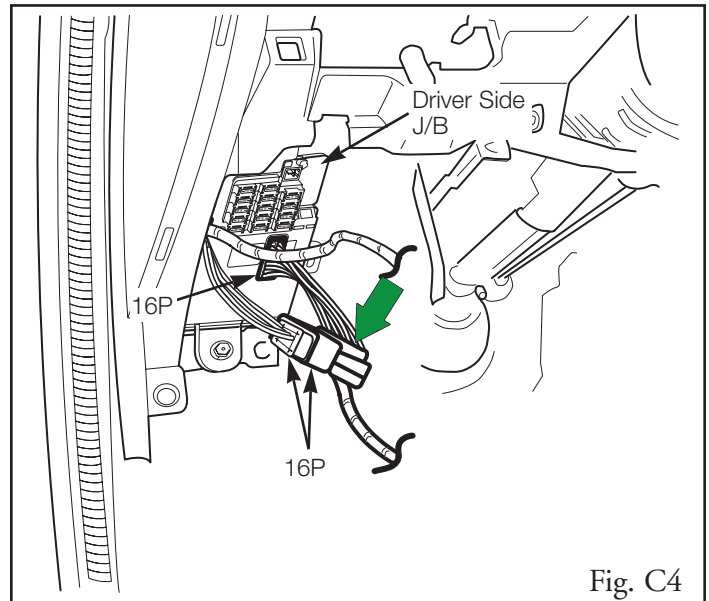


Fig. C4

6. Secure the 16P connectors and the V3 harness to the vehicle's harness as shown. (Fig. C5)



- i. Secure the connectors in front of the Driver Side J/B as shown with one large wire tie.



- ii. Secure the V3 harness next to the Driver Side J/B as shown with one medium wire tie.



- iii. Clip the wire ties.

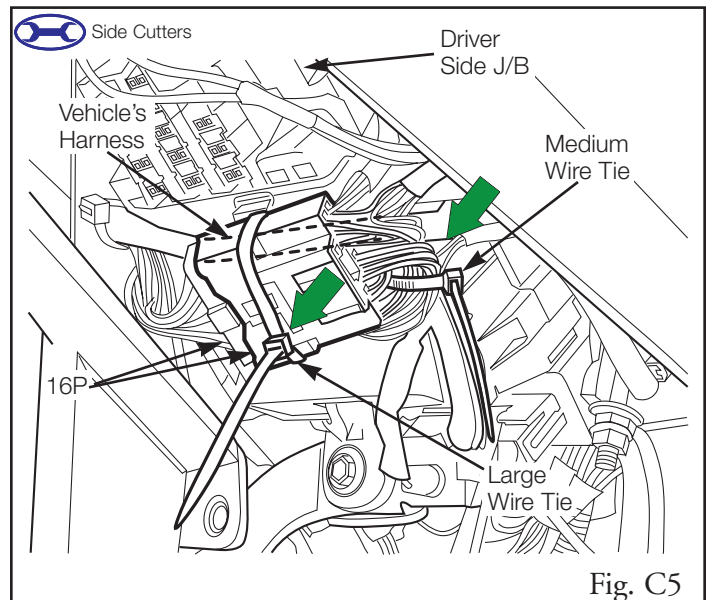


Fig. C5

7. Plug in the V3 harness' 7P connectors between the vehicle harness' 7P connector and the Driver Side J/B. (Fig. C6)



- i. Verify the connectors are plugged in securely.

8. Route the V3 harness toward the steering column, then secure it and the 7P connectors to the vehicle's harness. (Fig. C6)



- i. Secure the connectors with one large wire tie, and the V3 harness with one medium wire tie.



- ii. Clip the wire ties.

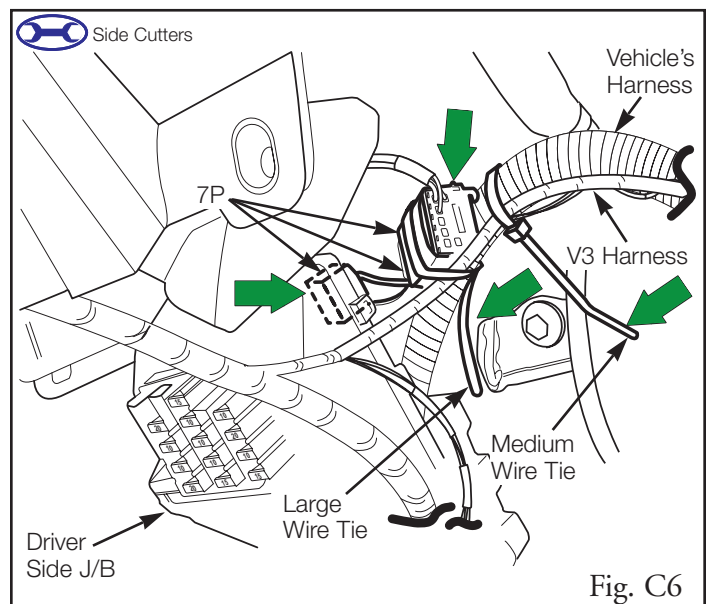


Fig. C6

9. Disconnect the vehicle harness' 8P connector from the ignition switch. (Fig. C7)



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

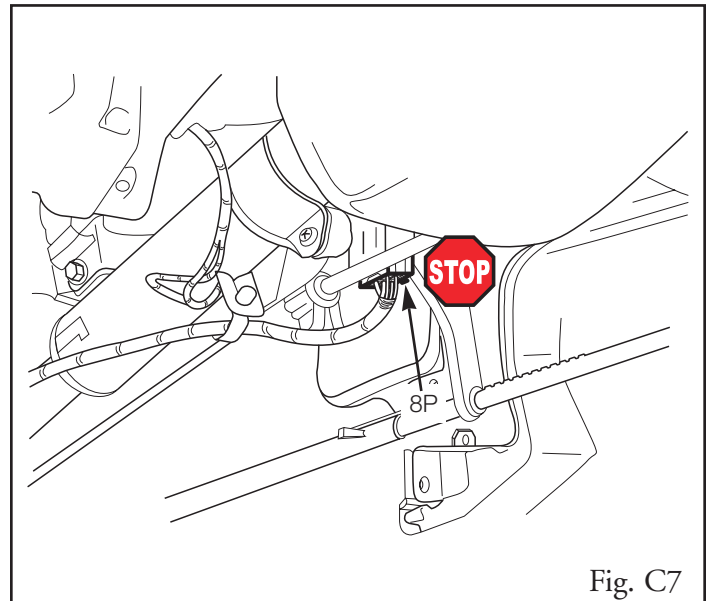


Fig. C7

10. Plug in the V3 harness' 8P connectors between the vehicle harness' 8P connector and the ignition switch. (Fig. C8)



- i. Verify the connectors are plugged in securely.

11. Secure the 8P connectors and the V3 harness to the vehicle's harness. (Fig. C8)



- i. Secure the connectors with one large wire tie as shown so the lower dash cover can be reinstalled without touching the connectors.



- ii. Secure the V3 harness to the vehicle's harness with three medium wire ties.



- iii. Clip the wire ties.

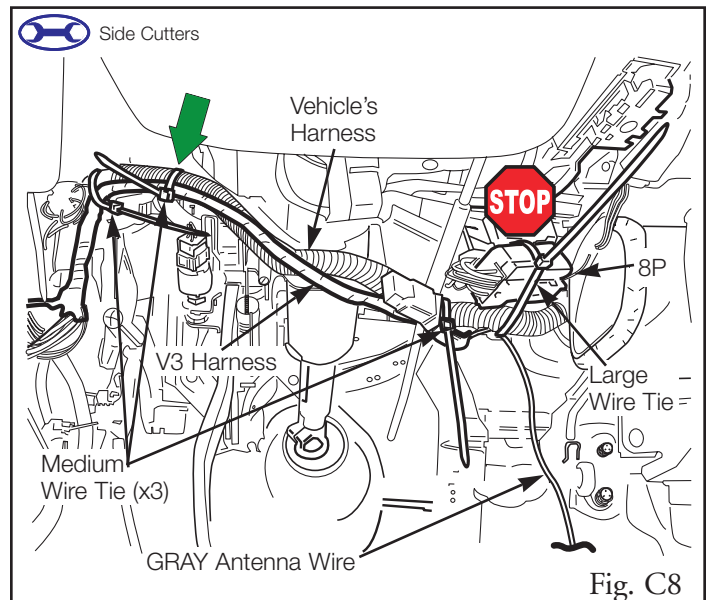


Fig. C8

12. Using one large wire tie, secure the GRAY Antenna wire to the ignition switch cylinder, then cut off the excess. (Fig. C9)



- i. Pull the wire tie tight so that the GRAY wire will not slip out.



- ii. Cut the GRAY wire only after tightening the wire tie.



- iii. Clip the wire tie.

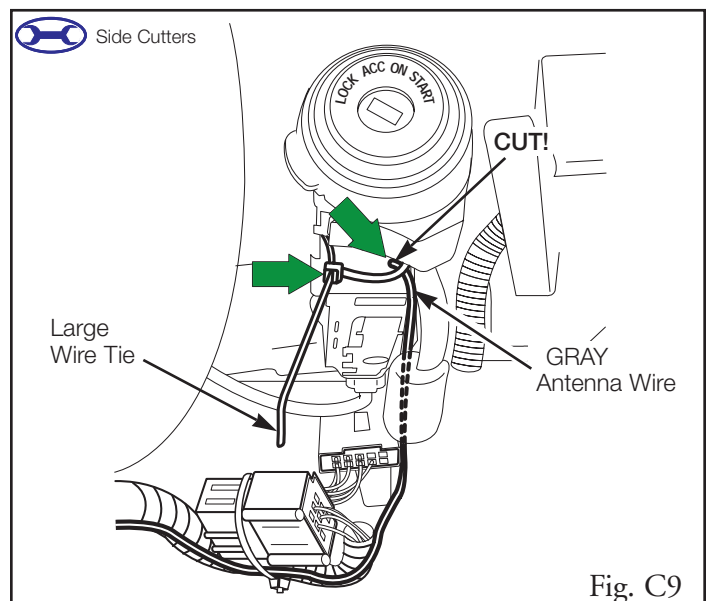
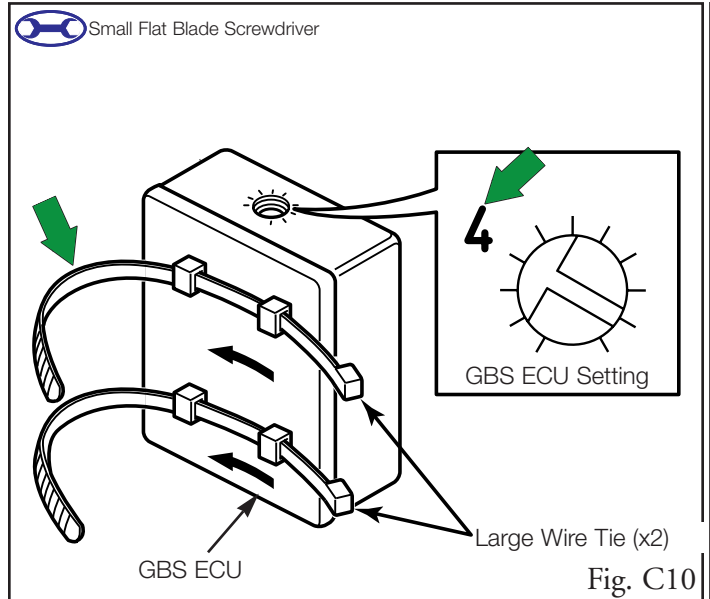


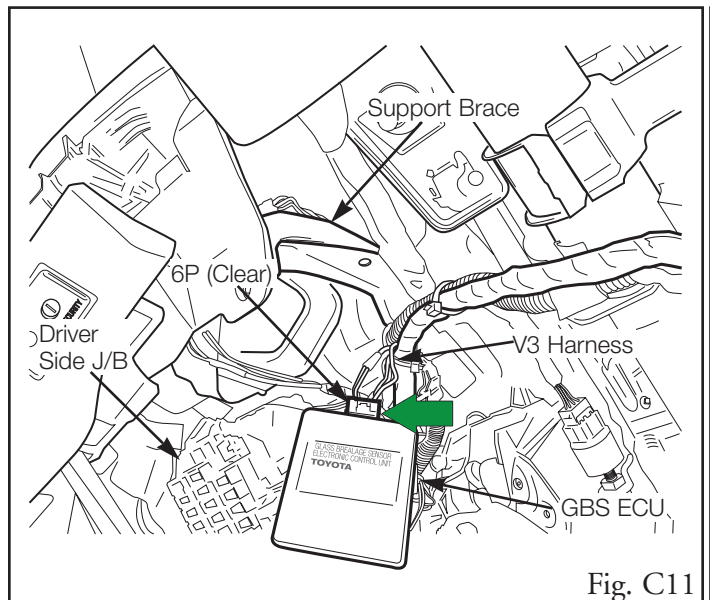
Fig. C9

Section II - Installation Procedure

- ➔ 13. Turn the adjustment screw on the GBS ECU to the 4 position. (Fig. C10)
- ➔ i. Adjust as necessary during the system function check.
- ➔ 14. Insert two large wire ties through the holes on the back of the GBS ECU. (Fig. C10)



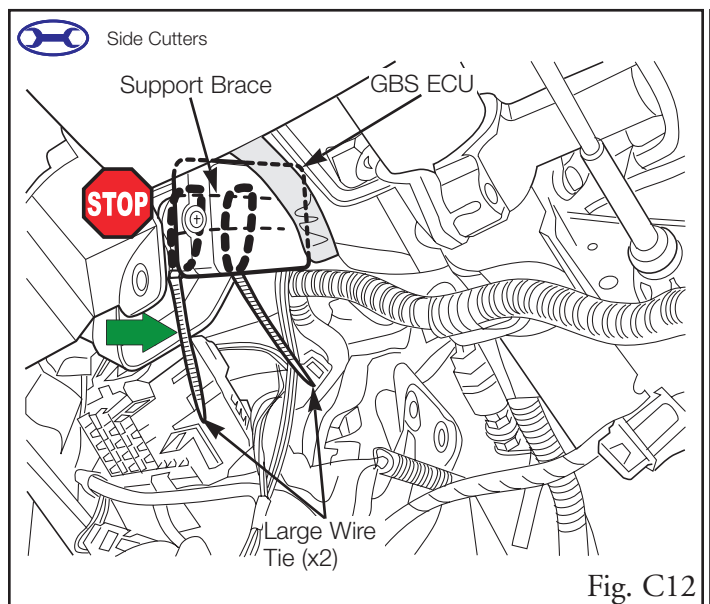
- 15. Plug in the V3 harness' clear 6P connector into the GBS ECU. (Fig. C11)
- ➔ i. Verify the connector is plugged in securely.
- 16. Locate the support brace above the Driver Side J/B. (Fig. C11)



- 17. Secure the GBS ECU to the support brace with the adjustment screw facing you. (Fig. C12)

- STOP i. Secure the GBS ECU as shown and do not overtighten the wire ties.
- ➔ ii. Clip the wire ties.

Caution: Be sure the GBS ECU is positioned clear of the heater duct opening.

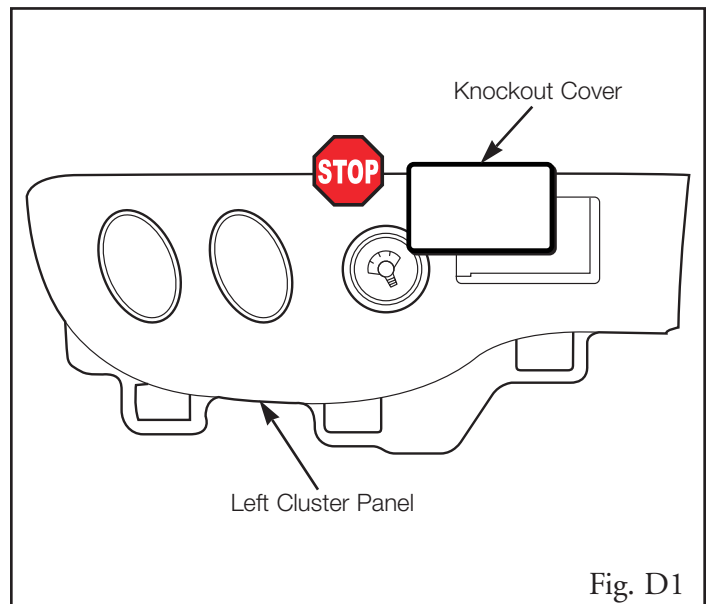


D. Status Monitor Installation

1. Remove the knockout cover from the left cluster panel. (Fig. D1)



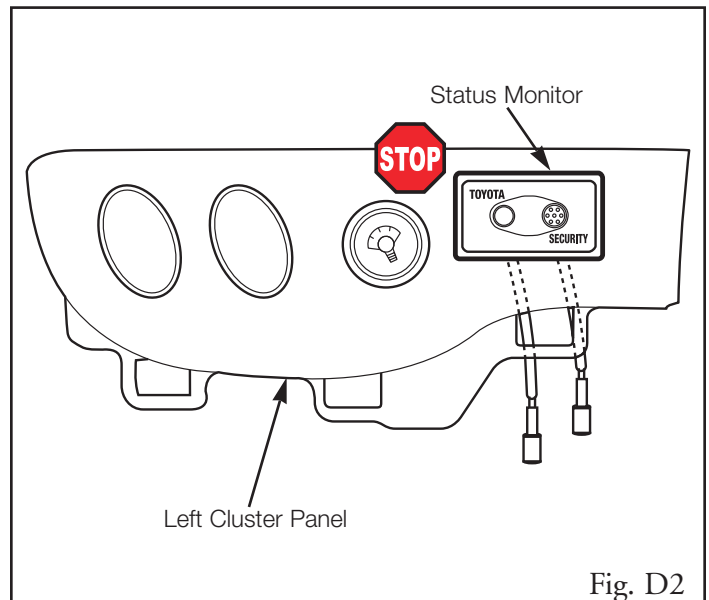
- i. Do not scratch the panel.



2. Insert the Status Monitor into the left cluster panel's knockout opening. (Fig. D2)



- i. Do not scratch the panel.



3. Connect the V3 harness' clear and blue 2P connectors to the Status Monitor's clear and blue 2P connectors. (Fig. D3)



- i. Verify the connectors are plugged in securely.

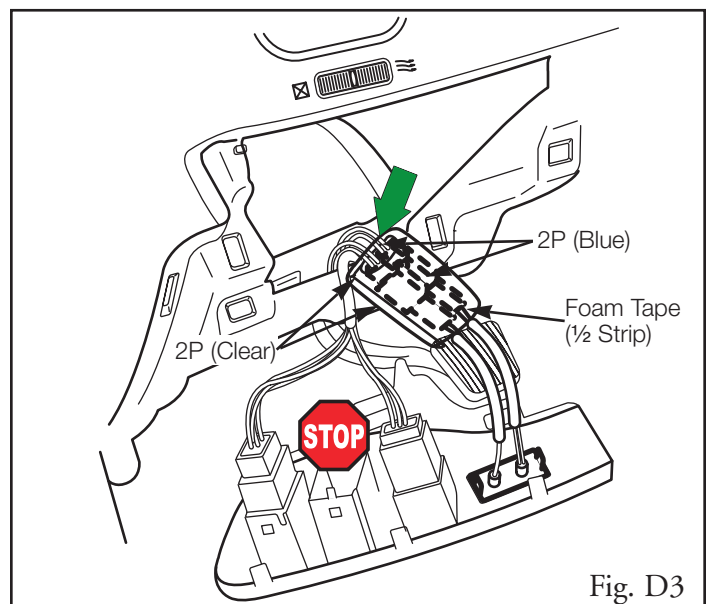


4. Using the remaining 1/2 strip of foam tape, wrap the 2P connectors together. (Fig. D3)

5. Reinstall the left cluster panel. (Fig. D3)



- i. Reconnect any vehicle harness' connectors (for the dimmer control, etc.) and verify they are plugged in securely before installing the panel.



E. Piezo Buzzer Installation

1. Locate the vehicle harness' gray 2P connector in the back corner on the driver's side of the engine compartment. (Fig. E1)



- i. Remove and discard the protective cap. (Fig. E1)

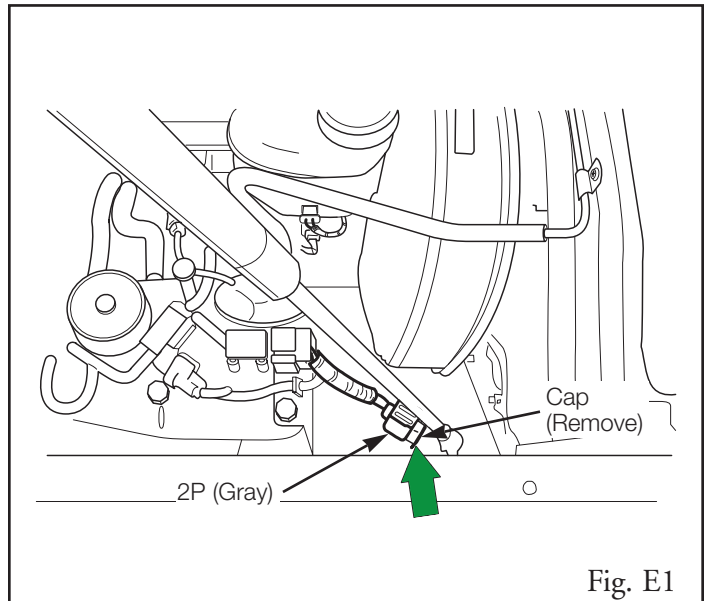


Fig. E1

2. Plug the piezo buzzer's gray 2P connector into the vehicle harness' gray 2P connector. (Fig. E2)



- i. Verify the connector is plugged in securely.

3. Secure the piezo buzzer to the vehicle's harness with one large strip of foam tape and one large wire tie, then secure its harness to the vehicle's harness with one medium wire tie. (Fig. E2)



- i. Secure the buzzer with the hole pointing down.



- ii. Clip the wire ties.

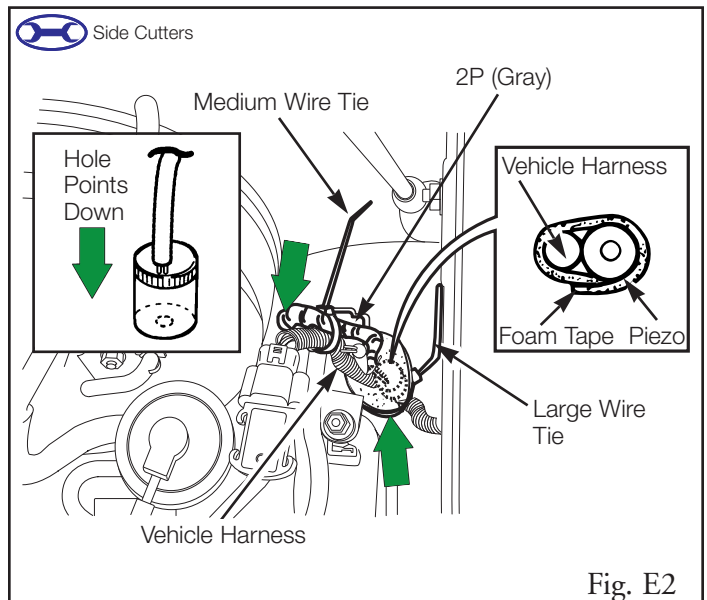


Fig. E2

F. Warning Label Installation



1. Clean the inside surface on the front door windows. (Fig. F1)

2. Attach the warning labels to the inside surface of the door windows as shown. (Fig. F1)



- i. Use a piece of adhesive tape to remove the labels from their protective backing sheets.



- ii. Hold the adhesive tape to align the labels properly.



- iii. Verify there are no visual defects (bubbles, fingerprints, etc.)

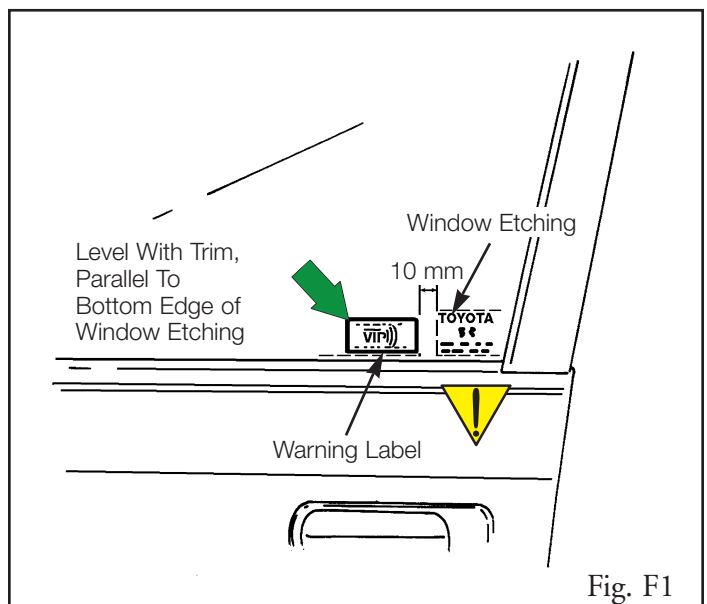


Fig. F1

G. Completing the Installation

1. Complete the reassembly of the vehicle.

➔ i. Verify the panels fit properly with no uneven gaps between panels.

➔ 2. Clean up any trash.

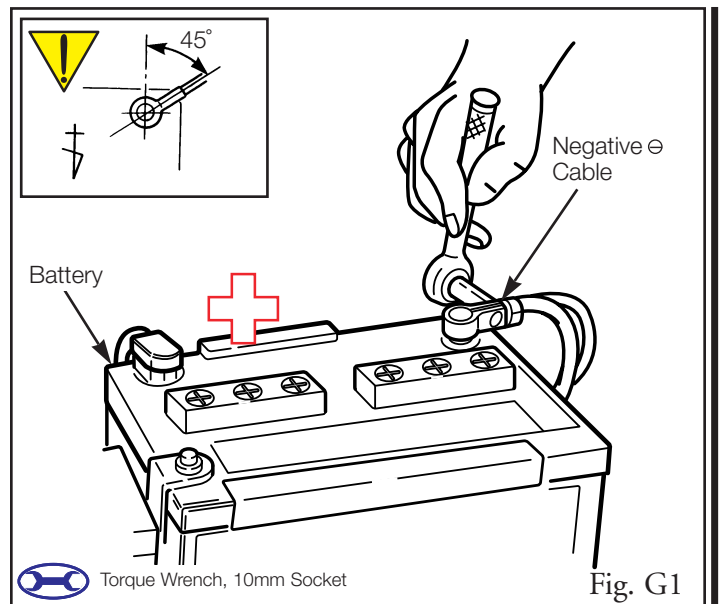
3. Reconnect the negative battery cable.
(Fig. G1)

⚠ i. Attach the battery cable at a 45° angle as shown.

⚠ ii. Tighten the nut to 3 ft. • lbs. torque.

⊕ iii. Do not touch the positive terminal.

➔ 4. Place the remote controls, owner's guide and insurance card, left in their bags, in the glove box.





Section III - Functional Verifications

Check:

- Press and release the remote's top button to arm the system.

- Press and release the remote's top button again to disarm the system.

Open and close the driver's door.

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

- Press and release the remote's top button again to disarm the system.

- Open the driver's door, then press and release the remote's top button.

Close the driver's door.

- Press and hold* the remote's top button for more than two seconds.

Look for:

The tail and marker lights flash once.
The Piezo chirps once.
The interior lights turn on for three seconds.
Both doors lock.
The Status Monitor's LED starts flashing.

The tail and marker lights flash twice.
The Piezo chirps twice.
The interior lights turn on for thirty seconds.
Both doors unlock.
The Status Monitor's LED stops flashing.

The tail and marker lights flash once.
The Piezo chirps once.
The interior lights turn on for three seconds.
Both doors lock.
The Status Monitor's LED starts flashing.

The tail and marker lights flash twice.
The Piezo chirps twice.
The interior lights turn on for thirty seconds.
Both doors unlock.
The Status Monitor's LED stops flashing.

The Piezo sounds continuously.

The Piezo stops sounding.

The doors lock, then unlock.
The Piezo chirps once (when the doors lock), then twice (when the doors unlock.)
The horn sounds in a unique pattern.
The interior lights flash in the same pattern.
The tail and marker lights flash in the same pattern.
The Status Monitor's LED flashes in the same pattern.



Section III - Functional Verifications

Check: _____

- Press and release the remote's top button.

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

- Insert the key into the ignition switch and turn it to "ON".
- Turn the key back to "ACC".

Turn the key to "ON", roll down both windows, turn the key back to "LOCK", then remove it and exit the vehicle.

- Press and release the remote's top button to arm the system.

- Reach inside, unlock and open driver's door, then sit in the driver's seat.

(If checking a M/T vehicle, fully depress the clutch pedal for the next step.)

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

- Turn the key back to "ACC", then to "START" again.

- Turn the key back to "LOCK", remove it, exit the vehicle, then check the front passenger door without performing the starter cut check.

Look for: _____

The horn stops sounding.
All the lights stop flashing.
The Piezo chirps twice.

Both doors lock.

Both doors unlock.

The tail and marker lights flash once.
The Piezo chirps once.
The interior lights turn on for three seconds.
Both doors lock.
The Status Monitor's LED starts flashing.

The horn sounds in a unique pattern.
The interior lights flash in the same pattern.
The tail and marker lights flash in the same pattern.
The Status Monitor's LED flashes in the same pattern.

The engine does not start (no cranking).

The horn stops sounding.
All the lights stop flashing.
The Status Monitor's LED stops flashing.
The starter cranks and the engine starts.

Same as before.



Section III - Functional Verifications

Check: _____

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

- Press and release the remote's top button to arm the system.

- Pull the plunger on the striker tool $\frac{1}{3}$ to $\frac{1}{2}$ way out, then release it to strike the center of the driver's door window.

- Pull the plunger all the way out to tap the center of the driver's door window again.

- Disarm the system with the remote.

Look for: _____

The tail and marker lights flash once.
The Piezo chirps once.
The interior lights turn on for three seconds.
Both doors lock.
The Status Monitor's LED starts flashing.

The alarm should not be triggered.

The horn starts sounding.
The tail and marker lights starts flashing.


Note: If you do not disarm the system with the remote control, the horn will sound and the lights will flash for 20 seconds. *It is not necessary to check the alarm duration.*

The horn stops sounding.
All the lights stop flashing.
The Status Monitor's LED stops flashing.

Section IV: Process/Audit Criteria

Process   

Audited during accessory installation
Paragraph numbers refer to paragraph numbers in Section II

Audit 

Audited on completed vehicle installation

Part Number: 08586-34861

A. Vehicle Disassembly

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



- i. Protect the fender before starting.



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

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



- ii. Do not scratch the cover.



- iii. Do not break the alignment clips when reinstalling the step cover; align them with the holes before pressing the step cover down.

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



- ii. Protect the floor and seat before proceeding.



- iii. Do not scratch the cover.



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

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



- ii. Do not scratch the cover.

6. Remove the left cluster panel. (Fig. A5)



- ii. Do not scratch the panel.



7. Remove the center heater duct. (Fig. A6)

B. V3 ECU Preparation and Installation



1. Using the three provided screws, attach the ECU mounting bracket to the back of the V3 ECU as shown. (Fig. B1)

2. Using two large strips of foam tape, cover the edge of the V3 ECU and mounting bracket opposite the ECU connectors as shown. (Fig. B2)



- i. Wrap the foam tape around the edge and on to the top surface of the ECU.

Section IV: Process/Audit Criteria

Process



Audited during accessory installation

Paragraph numbers refer to paragraph numbers in Section II

Audit



Audited on completed vehicle installation

3. Using two large strips of foam tape, cover the edges of the V3 ECU and ECU mounting bracket as shown. (Fig. B3)

- i. Cover the edge of V3 ECU and mounting bracket where the connectors come out, and the side opposite the ECU connectors.

4. Using a small strip of foam tape, wrap the edge of the mounting bracket's tab as shown. (Fig. B4)

5. Cut or tear one large strip of foam tape in half. (Fig. B5)

6. Remove the connector block mounted against the fire wall to the right side of the steering column. (Fig. B6)

7. Using a ½ strip of foam tape, cover the edge of the indicated metal bracket near the steering column. (Fig. B6)

8. Connect the V3 harness ECU connectors (10P, 10P, 4P) to the V3 ECU. (Fig. B7)

- i. Verify the connectors are plugged into the ECU securely.

9. With the connectors facing left, slide the ECU mounting bracket over the existing stud bolt, then secure it and connector block with the previously removed nut. (Fig. B8)

- i. Verify the nut is tightened securely.

C. V3 Harness and GBS ECU Installation

2. Plug the V3 harness' 2P female (terminals) connector into the vehicle's 2P connector. (Fig. C2)

- i. Verify the connector is plugged in securely.

3. Route the V3 harness up toward the Driver Side J/B and secure it to the vehicle's harness with three medium wire ties. (Fig. C2)

- i. Route and secure the V3 harness so that it does not touch the metal bracket.

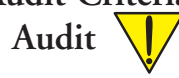
- ii. Clip the wire ties.

Section IV: Process/Audit Criteria



Audited during accessory installation

Paragraph numbers refer to paragraph numbers in Section II



Audited on completed vehicle installation

4. Disconnect the vehicle harness' 16P and 7P connectors from the Driver Side J/B. (Fig. C3)



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

5. Plug in the V3 harness' 16P connectors between the vehicle harness' 16P connector and the Driver Side J/B. (Fig. C4)



i. Verify the connectors are plugged in securely.

6. Secure the 16P connectors and the V3 harness to the vehicle's harness as shown. (Fig. C5)



i. Secure the connectors in front of the Driver Side J/B as shown with one large wire tie.



ii. Secure the V3 harness next to the Driver Side J/B as shown with one medium wire tie.



iii. Clip the wire ties.

7. Plug in the V3 harness' 7P connectors between the vehicle harness' 7P connector and the Driver Side J/B. (Fig. C6)



i. Verify the connectors are plugged in securely.

8. Route the V3 harness toward the steering column, then secure it and the 7P connectors to the vehicle's harness. (Fig. C6)



i. Secure the connectors with one large wire tie, and the V3 harness with one medium wire tie.



ii. Clip the wire ties.

9. Disconnect the vehicle harness' 8P connector from the ignition switch. (Fig. C7)



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

10. Plug in the V3 harness' 8P connectors between the vehicle harness' 8P connector and the ignition switch. (Fig. C8)



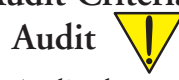
i. Verify the connectors are plugged in securely.

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11. Secure the 8P connectors and the V3 harness to the vehicle's harness. (Fig. C8)



i. Secure the connectors with one large wire tie as shown so the lower dash cover can be reinstalled without touching the connectors.



ii. Secure the V3 harness to the vehicle's harness with three medium wire ties.



iii. Clip the wire ties.

12. Using one large wire tie, secure the GRAY Antenna wire to the ignition switch cylinder, then cut off the excess. (Fig. C9)



i. Pull the wire tie tight so that the GRAY wire will not slip out.



ii. Cut the GRAY wire only after tightening the wire tie.



iii. Clip the wire tie.



13. Turn the adjustment screw on the GBS ECU to the 4 position. (Fig. C10)



i. Adjust as necessary during the system function check.



14. Insert two large wire ties through the holes on the back of the GBS ECU. (Fig. C10)

15. Plug in the V3 harness' clear 6P connector into the GBS ECU. (Fig. C11)



i. Verify the connector is plugged in securely.

17. Secure the GBS ECU to the support brace with the adjustment screw facing you. (Fig. C12)



i. Secure the GBS ECU as shown and do not overtighten the wire ties.



ii. Clip the wire ties.


Caution: Be sure the GBS ECU is positioned clear of the heater duct opening.

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D. Status Monitor Installation

1. Remove the knockout cover from the left cluster panel. (Fig. D1)



- i. Do not scratch the panel.

2. Insert the Status Monitor into the left cluster panel's knockout opening. (Fig. D2)



- i. Do not scratch the panel.

3. Connect the V3 harness' clear and blue 2P connectors to the Status Monitor's clear and blue 2P connectors. (Fig. D3)



- i. Verify the connectors are plugged in securely.



4. Using the remaining 1/2 strip of foam tape, wrap the 2P connectors together. (Fig. D3)

5. Reinstall the left cluster panel. (Fig. D3)



- i. Reconnect any vehicle harness' connectors (for the dimmer control, etc.) and verify they are plugged in securely before installing the panel.

E. Piezo Buzzer Installation

1. Locate the vehicle harness' gray 2P connector in the back corner on the driver's side of the engine compartment. (Fig. E1)



- i. Remove and discard the protective cap.

2. Plug the piezo buzzer's gray 2P connector into the vehicle harness' gray 2P connector. (Fig. E2)



- i. Verify the connector is plugged in securely.

3. Secure the piezo buzzer to the vehicle's harness with one large strip of foam tape and one large wire tie, then secure its harness to the vehicle's harness with one medium wire tie. (Fig. E2)



- i. Secure the buzzer with the hole pointing down.



- ii. Clip the wire ties.

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E. Warning Label Installation

-  1. Clean the inside surface on the front door windows. (Fig. F1)
- 2. Attach the warning labels to the inside surface of the door windows as shown. (Fig. F1)

 i. Use a piece of adhesive tape to remove the labels from their protective backing sheets.

 ii. Hold the adhesive tape to align the labels properly.

 2. iii. Verify there are no visual defects (bubbles, fingerprints, etc.)


G. Completing the Installation


1. Complete the reassembly of the vehicle.


 i. Verify the panels fit properly with no uneven gaps between panels.


 2. Clean up any trash.

3. Reconnect the negative battery cable. (Fig. G1)

 3. i. Attach the battery cable at a 45° angle as shown.

 ii. Tighten the nut to 3 ft.•lbs. torque.

 iii. Do not touch the positive terminal.

 4. Place the remote controls, owner's guide and insurance card, left in their bags, in the glove box.