

Part Number: 08586-3D841

Section I - Installation Preparation

Kit Contents

Item #	Quantity Req'd.	Description
1	1	Wire Harness
2	1	Status Monitor
3	1	Piezo Buzzer
4	2	Butyl Tape Pad
5	1	Extra Large Wire Tie

Hardware Bag Contents

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

Additional Items Required For Installation

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

Conflicts

Note: Must only be installed in vehicles with power door locks, and without factory keyless entry system.

Recommended Tools

Safety Tools	
Safety Glasses	
Safety Gloves	(Optional)
Vehicle Protection	Blankets, Part Boxes
Special Tools	
Installation Tools	
Phillips Head Screwdriver	#2, screwdriver or tip
Small, Flat Blade Screwdriver	
10 mm Socket	
Pneumatic/Electric Wrench	
Torque Wrench	
Nylon Panel Removal Tool	
Side Cutters	
Special Chemicals	
Windex	
3M Prep Solvent-70	

Color Applicability/Trim Level

Accessory Color \ Vehicle/Trim Color	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	x																							
2		x																						
3			x																					
4				x																				
5					x																			
6						x																		
7							x																	
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23																							x	
24																								x

General Applicability






2001- Tacoma

Recommended Sequence of Application

Item #	Accessory	
1	Audio	
2	V3	
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. 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.

Section II - Installation Procedure

Section II - Installation Procedure

A. Vehicle Disassembly

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



- i. Cover the fender before starting.



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

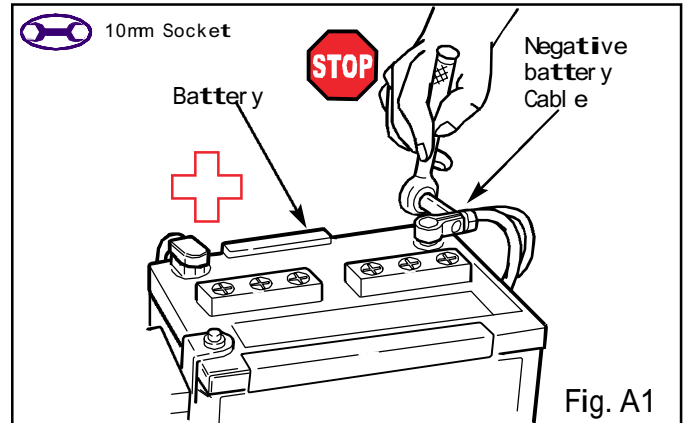


Fig. A1

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



- i. Protect the seat and floor before starting.

- ii. Remove the four screws securing the cover.



- iii. Do not scratch the cover.

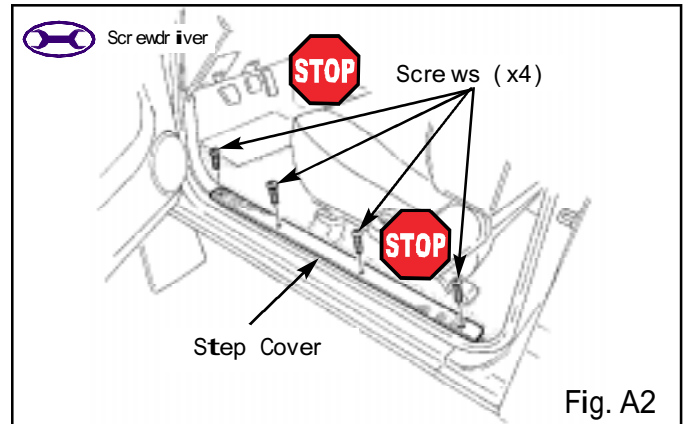


Fig. A2

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



- i. Do not scratch the cover.

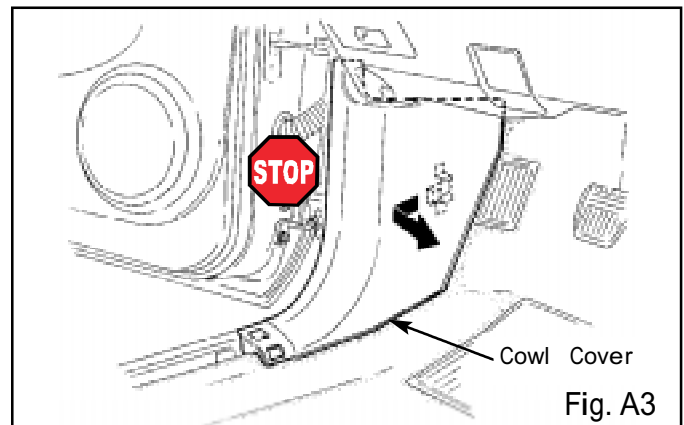


Fig. A3

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



- i. Remove the two screws securing the lever to the lower dash cover.



- ii. Remove the cable from the lever.

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

- i. Remove the four bolts and one screw securing the cover.



- ii. Do not scratch the cover.

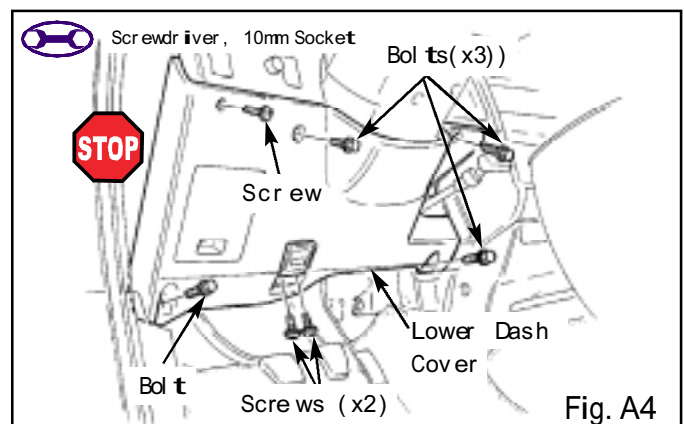

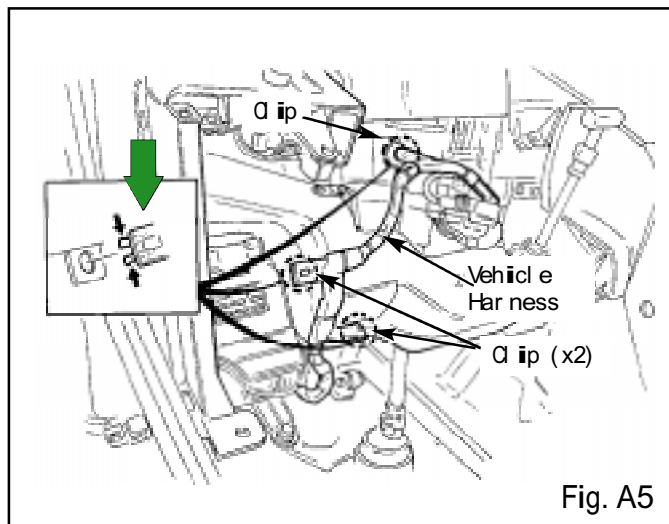


Fig. A4

 6. Loosen the vehicle's wire harness, if so equipped. (Fig. A5)



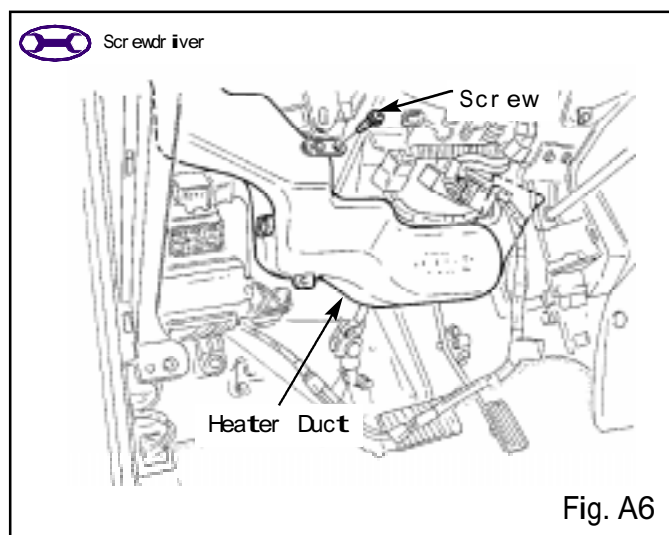
i. Unfasten the clips securing the harness.



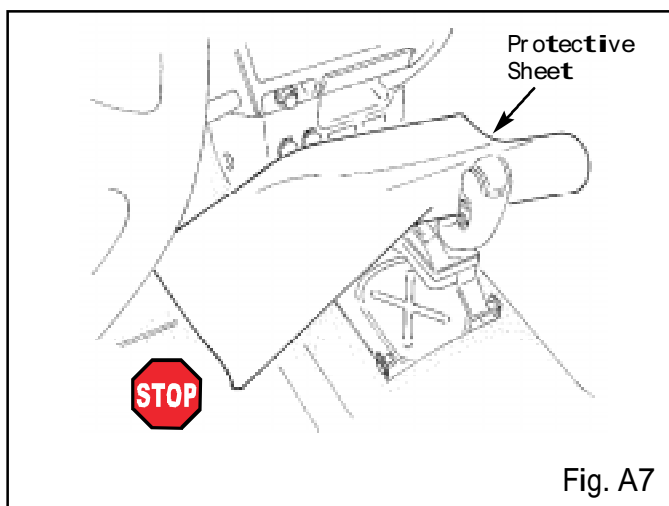
7. Remove the middle heater duct. (Fig. A6)



i. Remove the screw securing the heater duct's bracket to the vehicle.



8. Prepare a protective sheet, then place protective sheet over the front edge of the center console. (Fig. A7)



9. Loosen the bracket cover, but do not remove the cover. (Fig. A8)



i. Remove the two clips securing the bracket cover.



ii. Do not scratch the cover.

iii. Do not bend the cover.

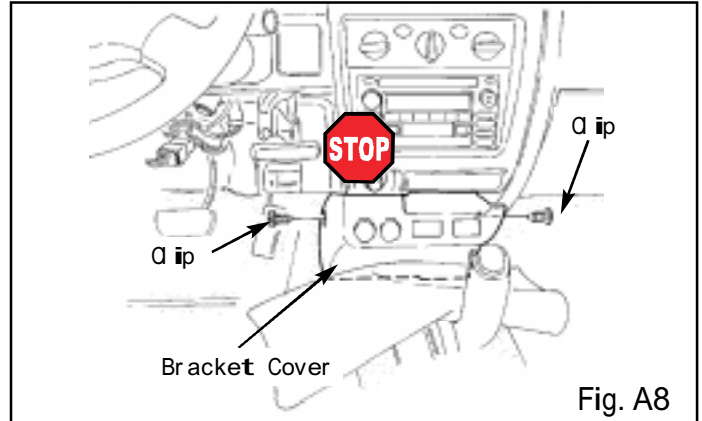


Fig. A8

B. Piezo Buzzer Installation



1. Remove and save the three bolts securing R/B No. 2 to the body in the engine room. (Fig. B1)

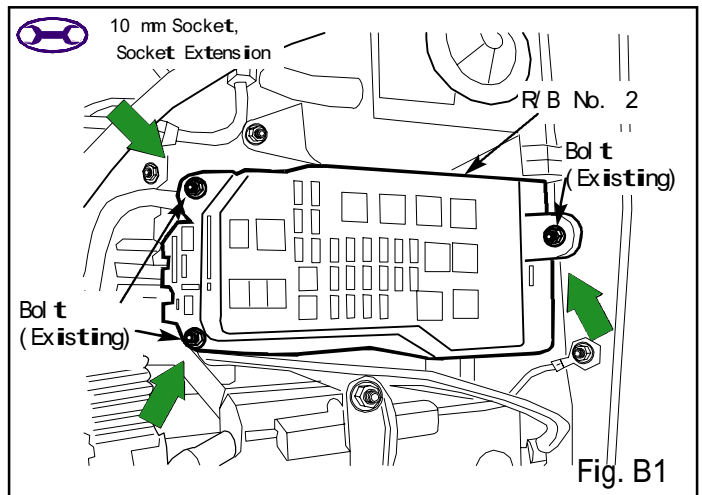


Fig. B1



2. Locate the vehicle harness gray 2P connector, then remove and discard the black cap. (Fig. B2)

i. Locate the 2P connector between R/B No. 2 and the body.



ii. Pull the connector toward the battery to remove the cap and make the connection.

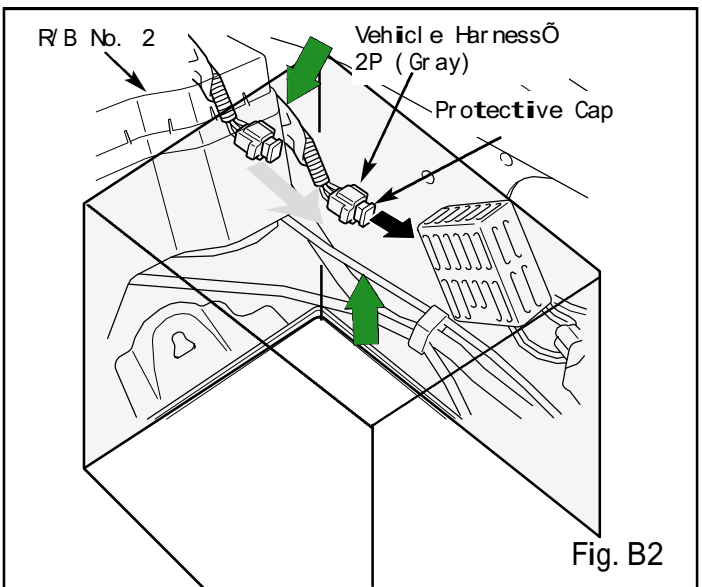


Fig. B2

3. Connect the Piezo Buzzer's gray 2P connector to the vehicle harness's 2P gray connector. (Fig. B3)

➔ i. Verify the connectors are plugged in securely.

➔ 4. Using a large strip of foam tape, wrap the Piezo Buzzer. (Fig. B3)

5. Secure the Buzzer to the vehicle's harness with two large wire ties. (Fig. B3)

➔ i. Secure the Buzzer so its hole is angled down.

STOP ii. Do not secure the piezo buzzer to the hood release cable.

➔ iii. Clip the wire ties.

C. V3 Harness and V3 ECU Installation

1. Locate the vehicle harness's white 6P connector from the Driver Side cowl area. (Fig. C1)

➔ 2. Plug in the V3 harness's 6P connector into the vehicle harness's 6P connector. (Fig. C1)

➔ i. Verify the connectors are plugged in securely.

3. Secure the V3 harness to the vehicle harness with one medium wire tie. (Fig. C1)

➔ i. Clip the wire tie.

4. Remove the backing sheet from the butyl tape, then apply to the top of the V3 ECU as shown. (Fig. C2)

STOP i. Remove only one backing sheet from the butyl tape.

➔ ii. Press the butyl tape firmly onto the ECU, making sure they make complete contact.

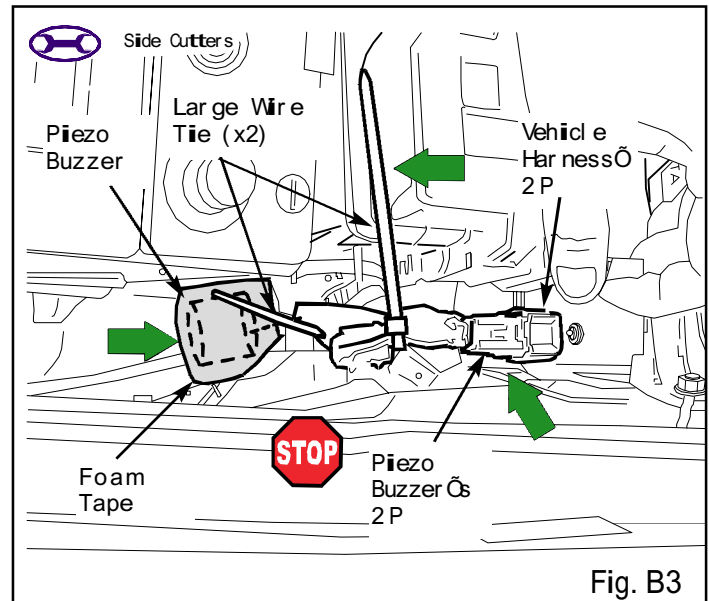


Fig. B3

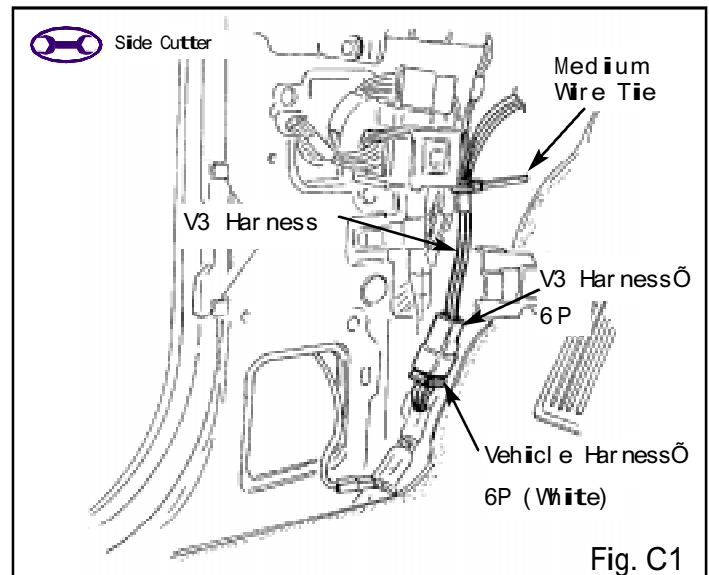


Fig. C1

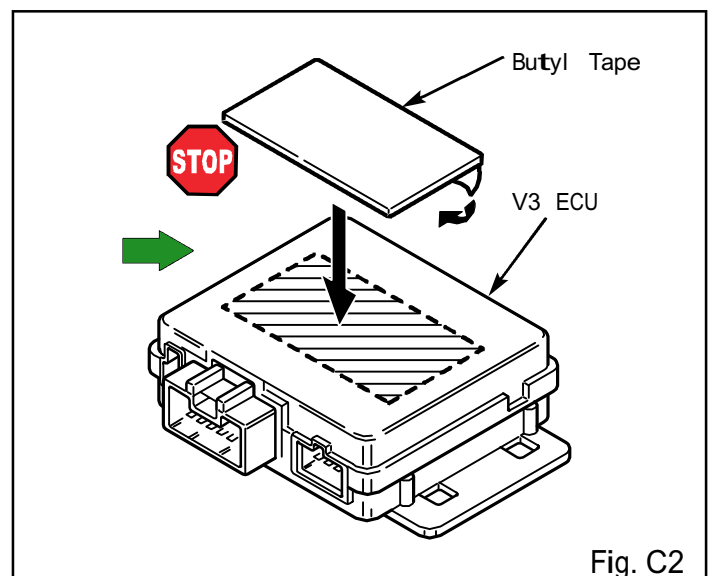
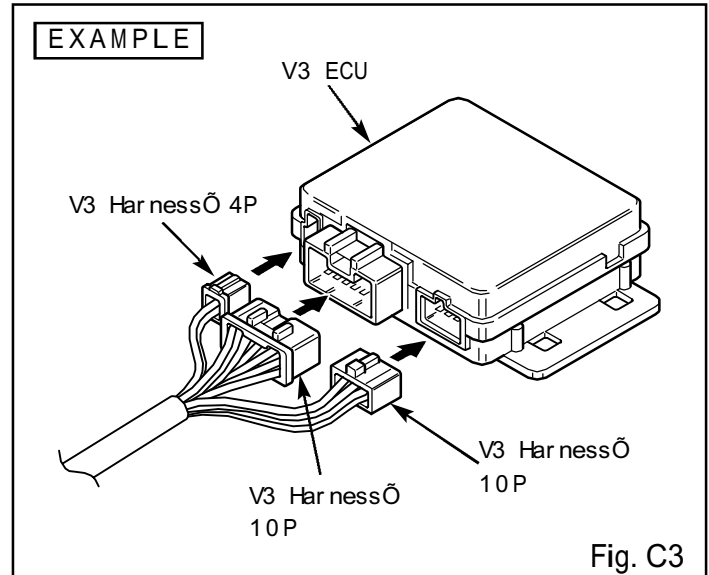


Fig. C2

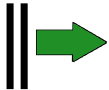
5. Plug in the V3 harness two 10P connectors and 4P connector to the V3 ECU. (Fig. C3)



- i. Verify the connectors are plugged in securely.



6. Using 3M Prep Solvent 70, clean the surface of the Driver Side cowl area as shown. (Fig. C4)

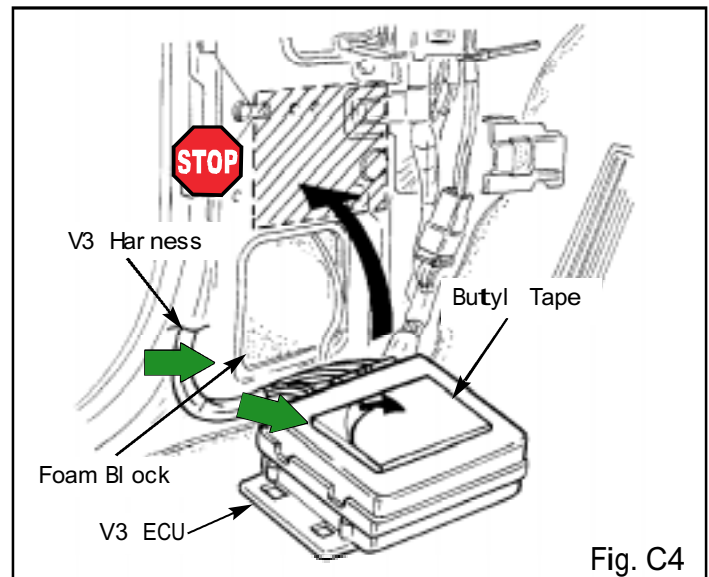


- i. Remove and save the foam block from the driver side lower cowl hole.

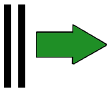
7. Remove the backing sheet from the butyl tape, then attach the V3 ECU to the shaded area of the Driver Side cowl area as shown. (Fig. C4)



- i. Press the V3 ECU firmly to the Driver Side cowl area.



8. Using the extra large wire tie, secure the V3 ECU to the Driver Side cowl area as shown. (Fig. C5)



- i. Reinsert the foam block in the driver side lower cowl hole.

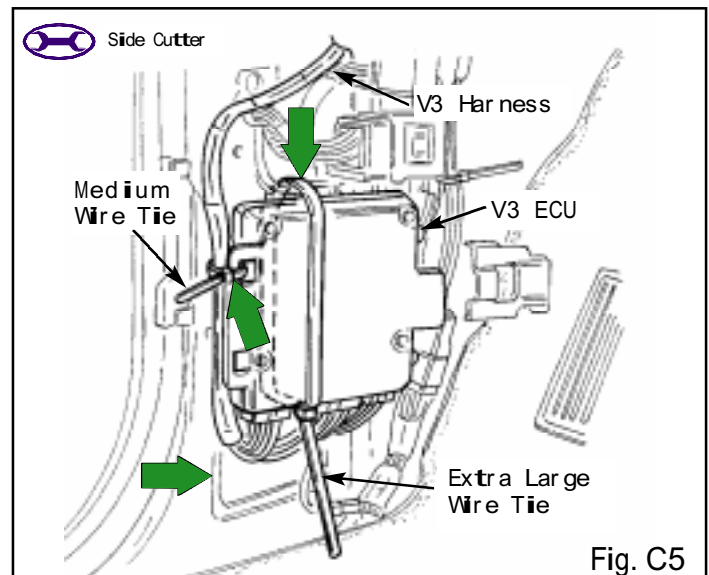


- ii. Clip the wire tie.

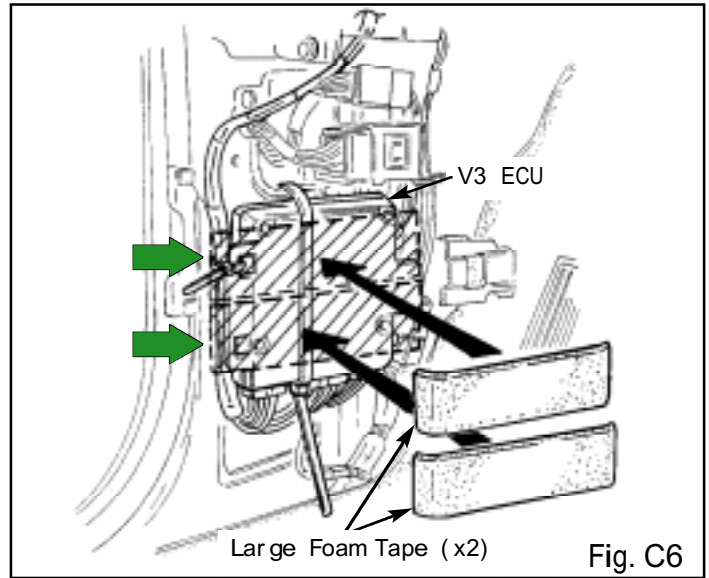
9. Secure the V3 harness to the V3 ECU with one medium wire tie. (Fig. C5)



- i. Clip the wire tie.



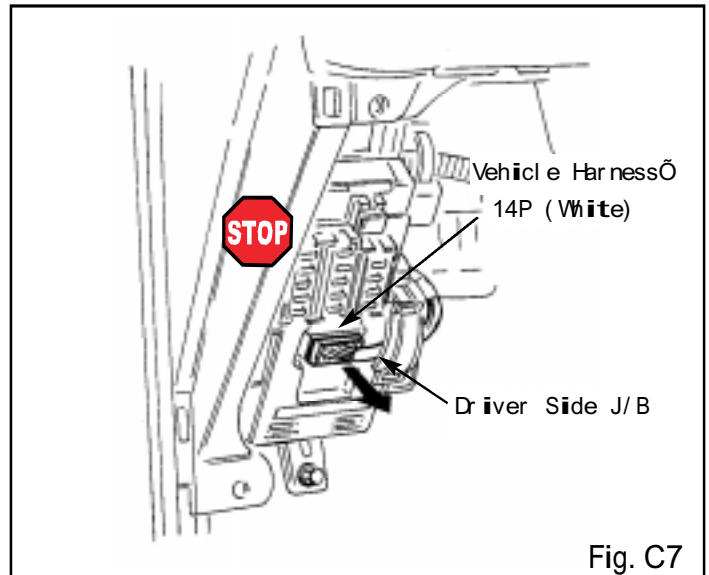
10. Attach two large foam tapes to the surface of the V3 ECU. (Fig. C6)



11. Remove the white 14P connector from the Driver Side J/B. (Fig. C7)



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



12. Plug in the V3 harness 14P connectors between the Driver Side J/B and vehicle harness white 14P connector. (Fig. C8)

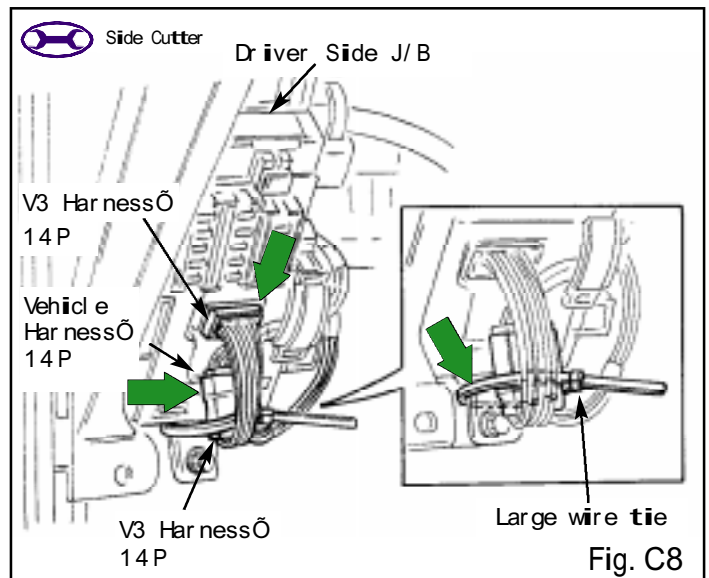


i. Verify the connectors are plugged in securely.

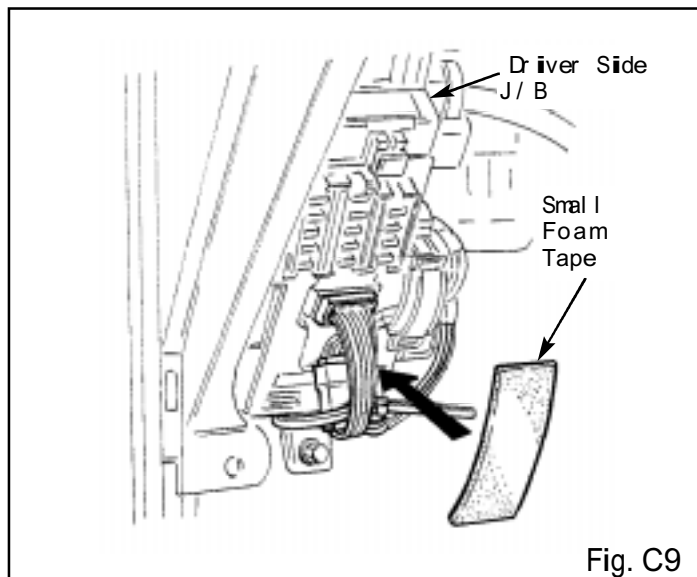
13. Secure the V3 harness to the Driver Side J/B with one large wire tie as shown. (Fig. C8)



i. Clip the wire tie.



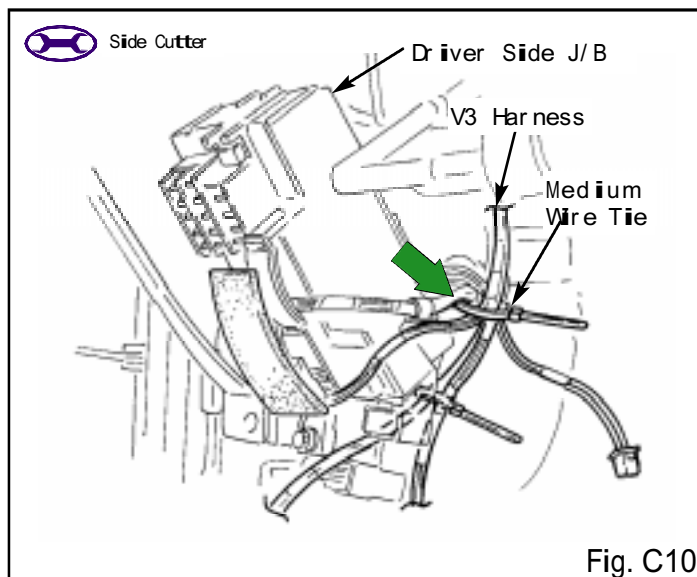
14. Using the small foam tape, attach the V3 harness and 14P connector to the Driver Side J/B. (Fig. C9)



15. Secure the V3 harness to the vehicle's harness with one medium wire tie. (Fig. C10)



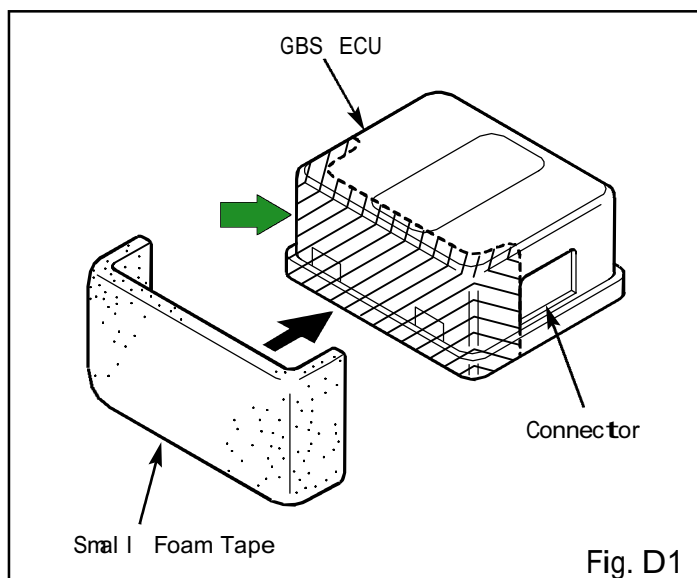
- i. Clip the wire tie.



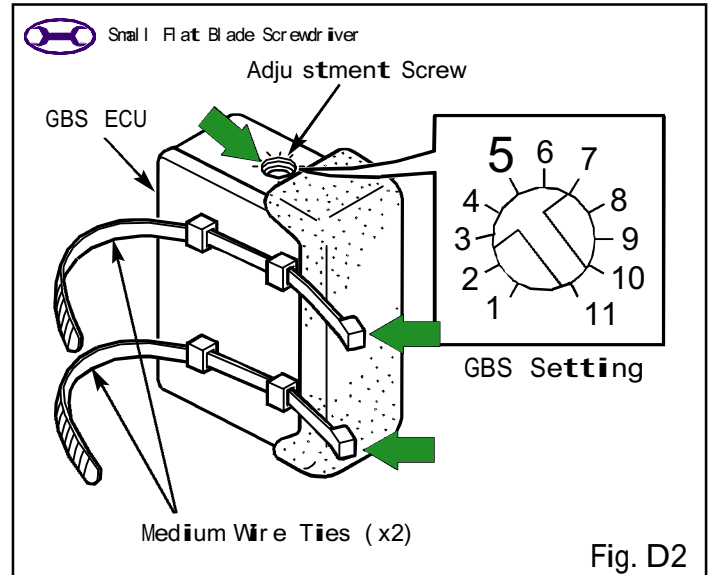
D. GBS ECU Installation and Connection



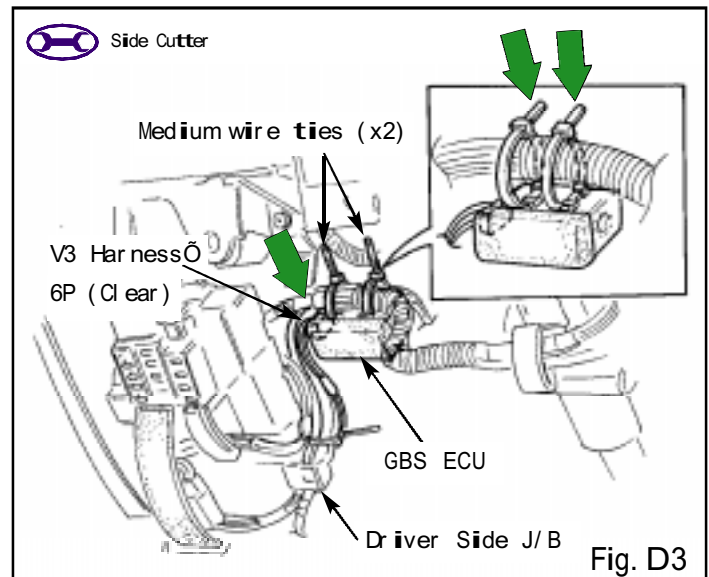
1. Attach the small foam tape to the edge of the GBS ECU. (Fig. D1)



- ➔ 2. Turn the adjustment screw on the GBS ECU to the "5" position. (Fig. D2)
- ➔ i. Adjust as necessary during the functional verifications.
- ➔ 3. Insert two medium wire ties through the slits in the back of the GBS ECU. (Fig. D2)

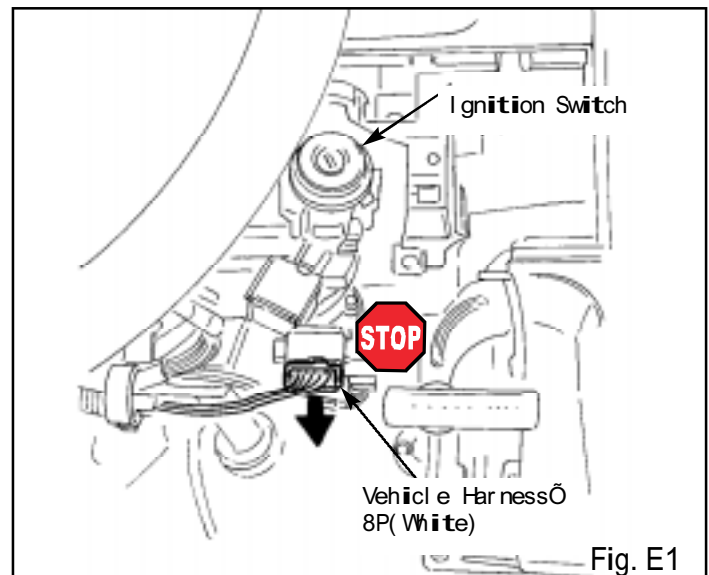


- 4. Plug in the V3 harness Clear 6P connector into the GBS ECU. (Fig. D3)
- ➔ i. Verify the connector is plugged in securely.
- 5. Secure the GBS ECU to the vehicle harness near Driver Side J/B as shown. (Fig. D3)
- ➔ i. Clip the wire ties.



E. V3 Harness Installation(Continued)

- 1. Locate and disconnect the 8P connector from the ignition switch. (Fig.E1)
- STOP i. Do not pull on the wires pull on the connector.



2. Plug in the V3 harness 8P connectors between the vehicle harness 8P connector and the ignition switch. (Fig. E2)



- i. Verify the connectors are plugged in securely.



3. Secure the V3 harness with the existing clip. (Fig. E2)

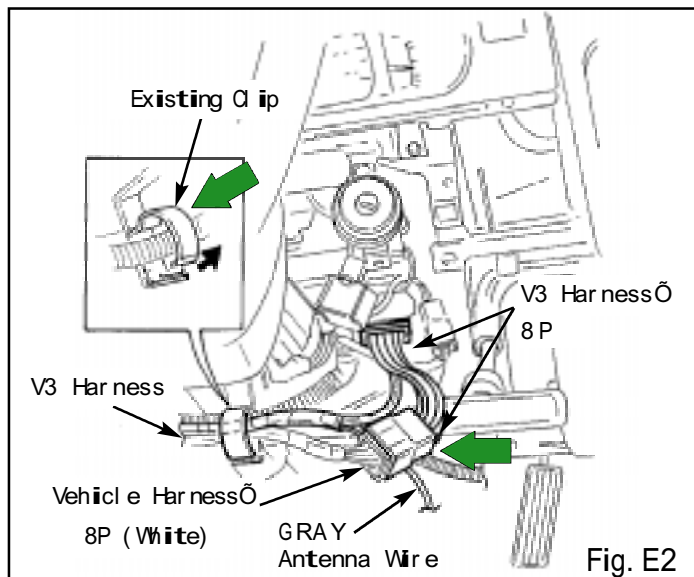


Fig. E2

4. Using one medium wire tie, secure the V3 harness 8P connectors to the existing wire tie around the ignition switch cylinder. (Fig. E3)



- i. Clip the medium wire tie.

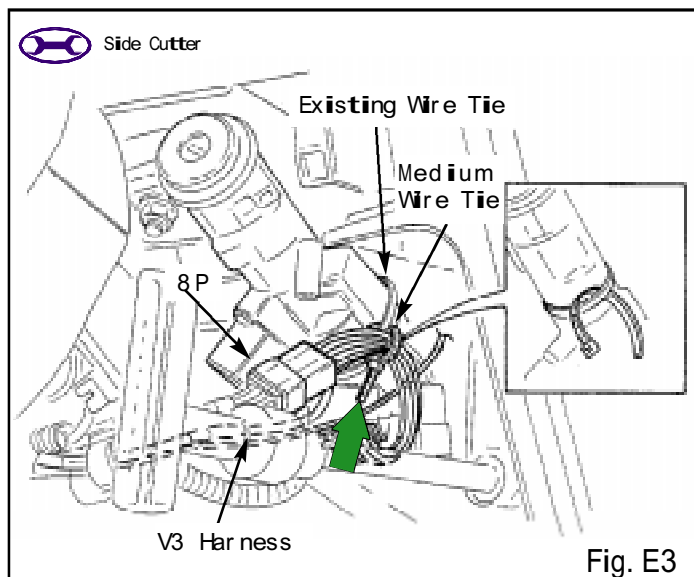


Fig. E3

F. Antenna Wire Installation

1. Route the GRAY Antenna wire up the ignition switch cylinder, then secure it to the cylinder with a large wire tie. (Fig. F1)



- i. Pull the wire tie very tight.



- ii. Clip the wire tie.

2. Cut off the excess Antenna wire as show. (Fig. F1)



- i. Do not cut any other wires.

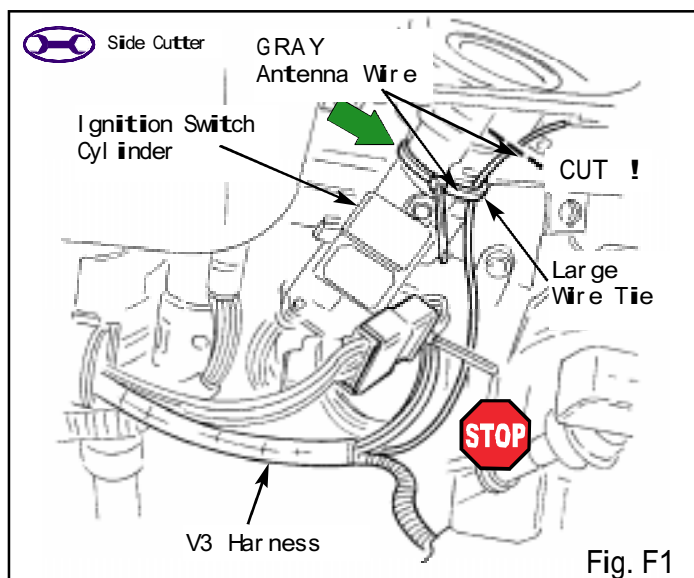
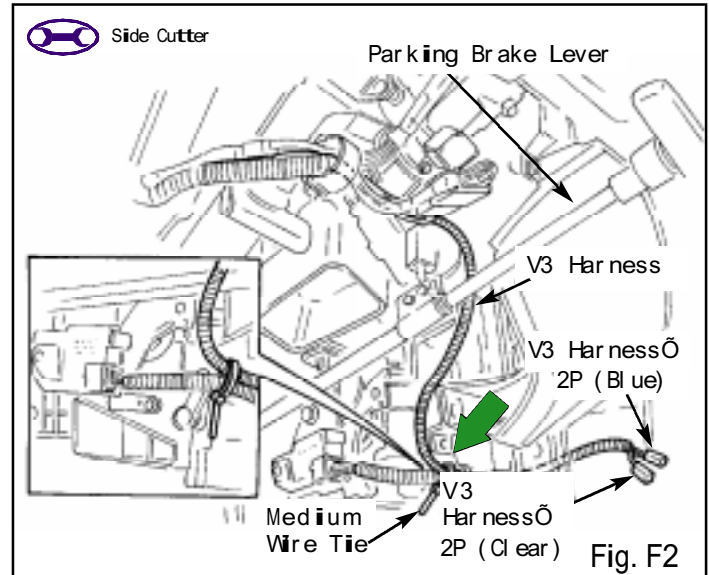


Fig. F1

3. Route the V3 harness toward the center console area , then secure it to the vehicle harness with one medium wire tie. (Fig. F2)



- i. Clip the wire tie.



G. Status Monitor Installation and Connection

1. With the bracket cover loosened, reach behind and remove the middle knockout cover from the bracket cover. (Fig. G1)



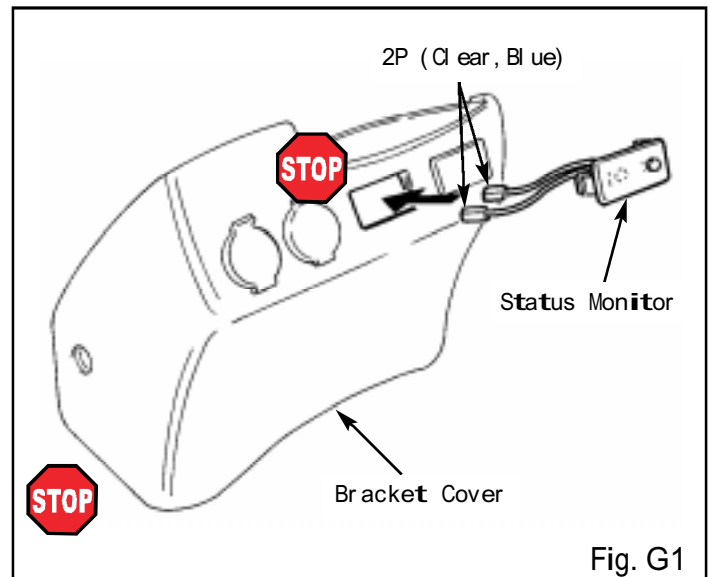
- i. Do not scratch the cover.



- ii. Do not bent the cover.



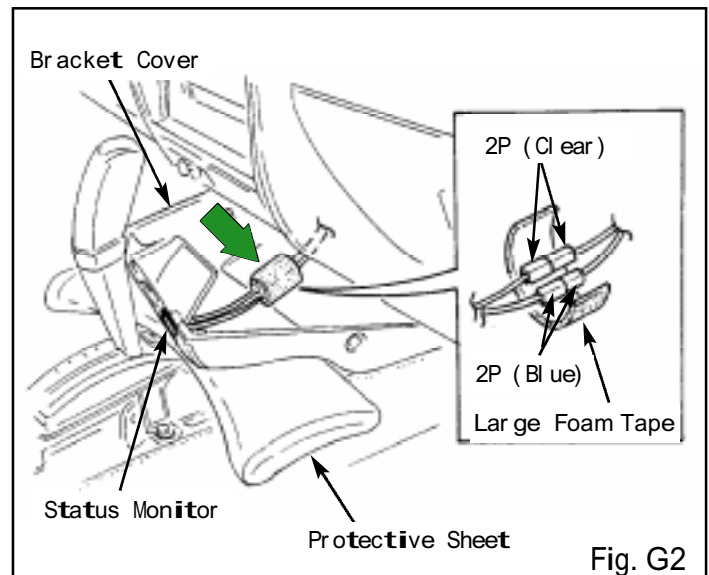
2. Install Status monitor to the bracket cover.




3. Connect the V3 harness clear and blue 2P connectors to the Status Monitor clear and blue 2P connectors, then wrap them with a large strip of foam tape. (Fig. G2)



- i. Verify the connector are plugged in securely.



H. Warning Label Installation

- ➔ 1. Clean the inside surface of the front door windows. (Fig. H1)
- ➔ 2. Place the warning label on the inside surface of the front door windows as shown. (Fig. H1)
 - ➔ 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.

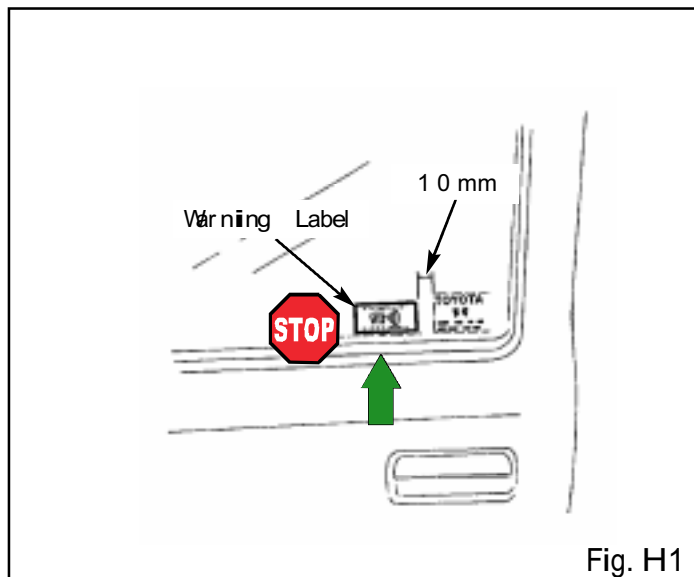



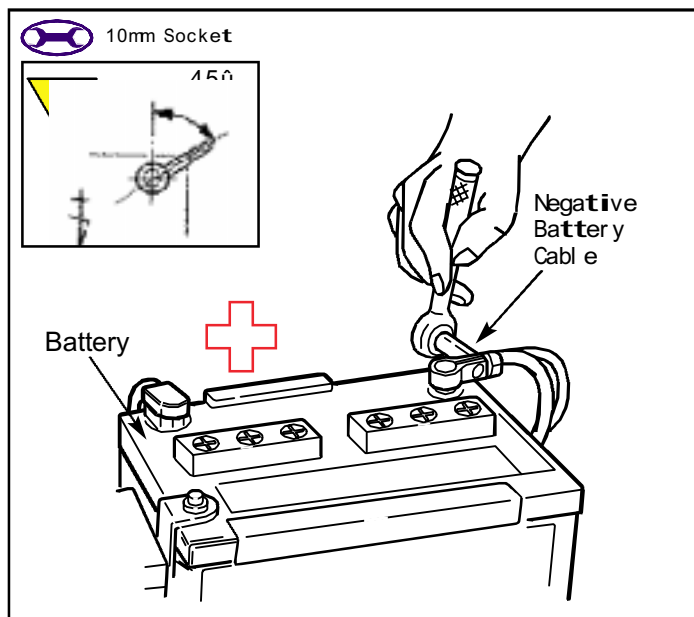


Fig. H1

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. Attach the battery cable at a 45 degree angle as shown.
 -  ii. Tighten the nut with 3 ft-lbs of torque.
 -  iii. Be careful to not touch the positive battery terminal.
- ➔ 4. Place the remote controls, owner's guide and insurance card, left in their protective bags, into the glove box.





Section III - Functional Verifications

Check:

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

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

- Open and close the driver door.

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

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

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

- Close the driver door.

- Press and hold the remote 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 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 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 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 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 LED flashes in the same pattern.



Section III - Functional Verifications

Check:

- Press and release the remote top button.

Sit in the driver 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 top button to arm the system.

- Reach inside, unlock and open driver door, then sit in the driver 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 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 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 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 top button to arm the system.

-  Pull the plunger on the striker tool 1/3 to 1/2 way out, then release it to strike the center of the driver door window.

-  Pull the plunger all the way out to tap the center of the driver 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 LED starts flashing.

The alarm should 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 LED stops flashing.

Section IV: Process/Audit Criteria

Process   

Audited during accessory installation
Paragraph numbers refer to paragraph numbers in Section II
Part Number : 08586-3D841

Audit 

Audited on completed vehicle installation

A. Vehicle Disassembly

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



i. Cover the fender before starting.



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

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



i. Protect the seat and floor before starting.



iii. Do not scratch the cover.

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



i. Do not scratch the cover.

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



i. Remove the two screws securing the lever to the lower dash cover.



ii. Remove the cable from the lever.

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



ii. Do not scratch the cover.



6. Loosen the vehicle's wire harness if so equipped.
(Fig. A5)



i. Unfasten the clips securing the harness.

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



i. Remove the screw securing the heater duct's bracket to the vehicle.



8. Prepare a protective sheet, then place protective sheet over the front edge of the center console.
(Fig. A7)

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

9. Loosen the bracket cover, but do not remove the cover. (Fig. A8)



i. Remove the two clips securing the bracket cover.



ii. Do not scratch the cover.



iii. Do not bend the cover.

B. Piezo Buzzer Installation



1. Remove and save the three bolts securing R/B No. 2 to the body in the engine room. (Fig B1)



2. Locate the vehicle harness gray 2P connector, then remove and discard the black cap. (Fig. B2)



ii. Pull the connector toward the battery to remove the cap and make the connection.

3. Connect the Piezo Buzzer gray 2P connector to the vehicle harness gray 2P connector. (Fig. B3)



i. Verify the connectors are plugged in securely.



4. Using a large strip of foam tape, wrap the Piezo Buzzer. (Fig. B3)

5. Secure the Buzzer to the vehicle harness with two large wire ties. (Fig. B3)



i. Secure the Buzzer so its hole is angled down.



ii. Do not secure the piezo buzzer to the hood release cable.



iii. Clip the wire ties.

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

C. V3 Harness and V3 ECU Installation



2. Plug in the V3 harness 6P connector into the vehicle harness 6P connector. (Fig. C1)



i. Verify the connectors are plugged in securely.

3. Secure the V3 harness to the vehicle harness with one medium wire tie. (Fig. C1)



i. Clip the wire tie.

4. Remove the backing sheet from the butyl tape, then apply to the top of the V3 ECU as shown. (Fig. C2)



i. Remove only one backing sheet from the butyl tape.



ii. Press the butyl tape firmly onto the ECU, making sure they make complete contact.

5. Plug in the V3 harness 10P connectors and 4P connector to the V3 ECU as shown. (Fig. C3)



i. Verify the connectors are plugged in securely.



6. Using 3M Prep Solvent 70, clean the surface of the Driver Side cowl area as shown. (Fig. C4)



i. Remove and save the foam block from the driver side lower cowl hole.

7. Remove the backing sheet from the butyl tape, then attach the V3 ECU to the shaded area of the Driver Side cowl area as shown. (Fig. C4)



i. Press the V3 ECU firmly to the Driver Side cowl area.

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

8. Using the extra large wire tie, secure the V3 ECU to the Driver Side cowl area as shown. (Fig. C5)



i. Reinsert the foam block in the driver's side lower cowl hole.



ii. Clip the wire tie.

9. Secure the V3 harness to the V3 ECU with one medium wire tie. (Fig. C5)



i. Clip the wire tie.

11. Remove the white 14P connector from the Driver Side J/B. (Fig. C7)



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

12. Plug in the V3 harness's 14P connectors between the Driver Side J/B and vehicle harness's white 14P connector. (Fig. C8)



i. Verify the connectors are plugged in securely.

13. Secure the V3 harness to the Driver Side J/B with one large wire tie as shown. (Fig. C8)



i. Clip the wire tie.

15. Secure the V3 harness to the vehicle's harness with one medium wire ties. (Fig. C10)



i. Clip the wire tie.

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

D. GBS ECU Installation and Connection

-  1. Attach the small foam tape to the edge of the GBS ECU. (Fig. D1)
-  2. Turn the adjustment screw on the GBS ECU to the "5" position. (Fig. D2)
-  i. Adjust as necessary during the functional verifications.
-  3. Insert two medium wire ties through the slits in the back of the GBS ECU. (Fig. D2)
- 4. Plug in the V3 harness 6P connector into the GBS ECU. (Fig. D3)
-  i. Verify the connector is plugged in securely.
- 5. Secure the GBS ECU to the vehicle harness near Driver Side J/B as shown. (Fig. D3)
-  i. Clip the wire ties.

E. V3 Harness Installation(Continued)

- 1. Locate and disconnect the 8P connector from the ignition switch. (Fig.E1)
-  i. Do not pull on the wires pull on the connector.
- 2. Plug in the V3 harness 8P connectors between the vehicle harness 8P connector and the ignition switch. (Fig. E2)
-  i. Verify the connectors are plugged in securely.
-  3. Secure the V3 harness with the existing clip. (Fig. E2)

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

4. Using one medium wire tie, secure the V3 harness 8P connectors to the existing wire tie around the ignition switch cylinder. (Fig. E3)



- i. Clip the medium wire tie.

F. Antenna Wire Installation

1. Route the GRAY Antenna wire up the ignition switch cylinder, then secure it to the cylinder with a large wire tie. (Fig. F1)



- i. Pull the wire tie very tight.



- ii. Clip the wire tie.

2. Cut off the excess Antenna wire as show. (Fig. F1)



- i. Do not cut any other wires

3. Route the V3 harness toward the center console area , then secure it to the vehicle harness with one medium wire tie. (Fig. F2)



- i. Clip the wire tie.

G. Status Monitor Installation and Connection

1. With the bracket cover loosened, reach behind and remove the middle knockout cover from the bracket cover. (Fig. G1)



- i. Do not scratch the cover.



- ii. Do not bend the cover.



2. Install Status monitor to the bracket cover.

3. Connect the V3 harness clear and blue 2P connectors to the Status Monitor clear and blue 2P connectors, then wrap them with a large strip of foam tape. (Fig. G2)



- i. Verify the connector are plugged in securely.

Section IV: Process/Audit Criteria

Process   





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Paragraph numbers refer to paragraph numbers in Section II






Audit 



Audited on completed vehicle installation

H. Warning Label Installation

-  1. Clean the inside surface of the front door windows (Fig. H1)
-  2. Place the warning label on the inside surface of the front door windows as shown. (Fig. H1)
- 
 - 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.

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.
- 3. Reconnect the vehicle negative battery cable. (Fig. I1)
- 
 - ii. Be careful to not touch the positive battery terminal.
-  4. Place the remote controls, owner's guide and insurance card, left in their protective bags, into the glove box.

-  3.
 - i. Attach the battery cable at a 45 degree angle as shown.
- 
 - ii. Tighten the nut with 3 ft-lbs of torque.