



**A. Check Kit Contents**

1. Check kit for contents and damage.

**B. Vehicle Preparation**

1. Open hood.
2.  Apply protection to engine compartment and front of vehicle.

**C. Vehicle Disassembly**

1. Cycle wipers once to ensure wipers are in the “parked” position.

2. Apply tape to windshield to mark wiper locations. (Fig. C1)

3. Use a non-scratch pry tool to remove wiper mounting nut covers. (Fig. C2)

 4. Remove wiper mounting nuts. (Fig. C3)

 **Caution: Hold the wiper arm while loosening nuts.**

 5. Remove wipers by lightly lifting hinged end of wiper arm and slightly wiggle wiper at mounting stud. (Fig. C4)

 6. Remove cowl cover.

- i. Remove the push pin fasteners (2 per side) and the seal retainer (1 per side) Fig C5.

 ii. Push center of push pin fasteners to release. Push in one click to release. Do not push pin too far. (Fig C6)

 7. Remove the outer seal retainer clips.

- i. Carefully slide the seal off the retainer.

 ii. Using a hemostat, squeeze the clip to remove from cowl.

- iii. Reinstall seal retainer clips back into the seal.

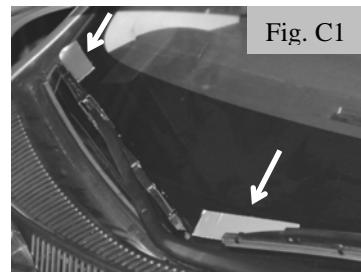


Fig. C1

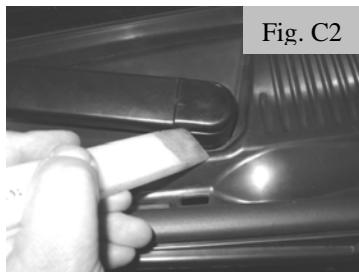


Fig. C2



Fig. C3



Fig. C4

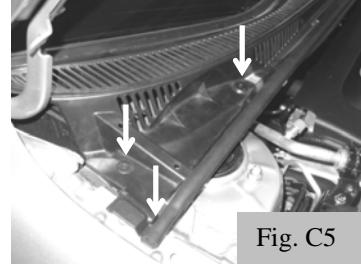


Fig. C5

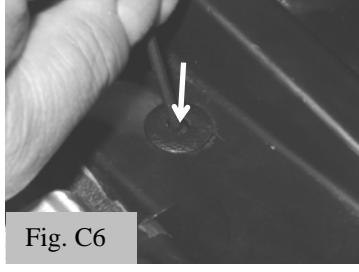


Fig. C6

8. Push up on the (4) tabs under the cowl. (Fig. C7)

9. Push up on the (2) seal retainers. (Fig. C7)

10. Remove the cowl cover.

i. Pull the cowl cover forward, lift at the middle and let the ends “droop” to gain clearance. (Fig. C8)

ii. Remove the (2) cover halves and the seal as one piece.

→ 11. Remove the front strut inner mounting nuts (2 per side). (Figs. C9 & C10)

i. On the driver side, the black metal cover may have to be lifted slightly to remove the rearward nut. (Fig. C11)

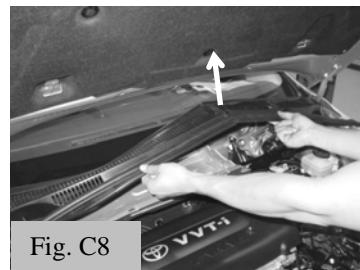
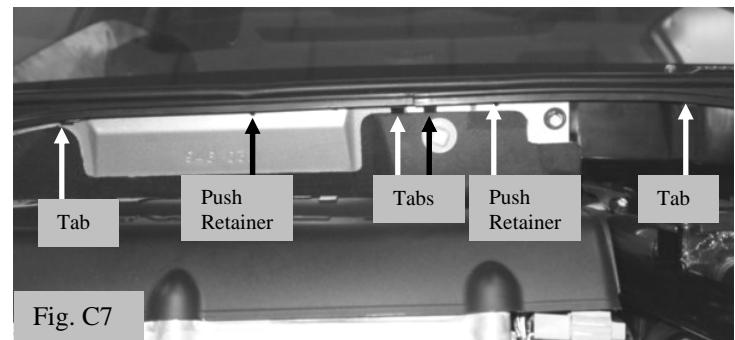


Fig. C8

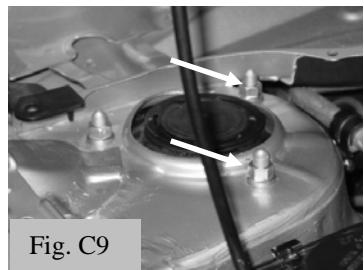


Fig. C9

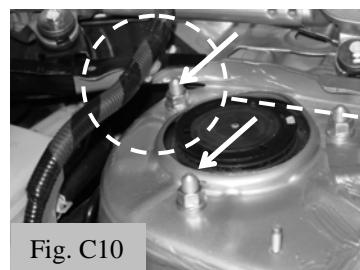
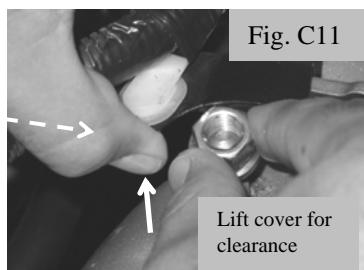


Fig. C10



Lift cover for clearance

#### D. Install the Strut Tie Bar (STB)

1. Install the STB

i. The STB is installed with the bend facing forward.



ii. Starting with the driver side mounting plate, insert the mounting plate under the wire harness. (Fig. D1)

iii. First, engage the rear mount plate hole with the rear strut mounting stud. (Fig. D2)

iv. Then, rotate the assembly to engage the rear passenger side mounting plate hole with the rear strut mounting stud. (Fig. D3)

v. Let the assembly drop down onto the forward strut mounting studs. (Fig. D4)

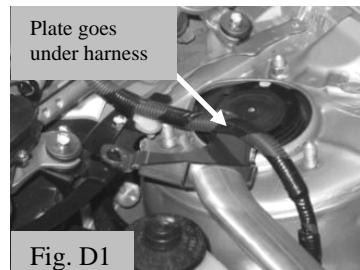


Fig. D1



Fig. D2

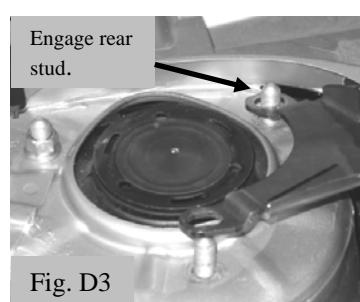


Fig. D3

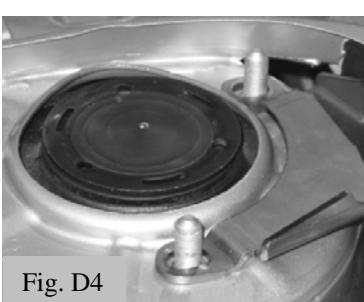


Fig. D4

- vi. Install the strut mounting nuts.
- !** vii. Torque nuts to 35 lbf-ft (30 lbf-ft min. /40 lbf-ft max.).

## E. Post Installation

1. Reinstall cowl cover.
  - i. Be sure the hooks on the bottom of the cowl cover engage the bottom of the windshield. (Fig. E1)
  - ii. Push cover toward windshield.
  - iii. Be sure to re-engage all (4) tabs and (2) seal retainers under the cowl. (Fig. E2)
  - iv. Reinstall push pin fasteners (2 per side) by first pulling the center pins back out, then insert the fastener assembly into the hole and push the center pin in flush with the fastener head.
- 2. Re-engage outer seal retainers.
3. Reinstall wipers.
  - i. Align wipers with tape marks.
  - ii. Install wiper mounting nuts.
  - !** iii. Torque wiper mounting nuts to 15 lbf-ft. (12 lbf-ft min. /18 lbf-ft max.)
- STOP** **Note: Hold the wiper arm while tightening.**
  - iv. Reinstall wiper mounting nut caps.
- !** 4. Use the 6-inch wire tie to secure the Vacuum Switched Valve (VSV) connector wires to the VSV. Position wires as shown. (Figs. E3 & E4)

**Note: Maximize the clearance between the VSV wires and the Strut Tie Bar.**

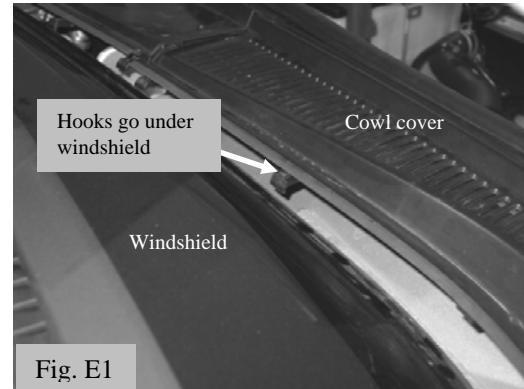


Fig. E1

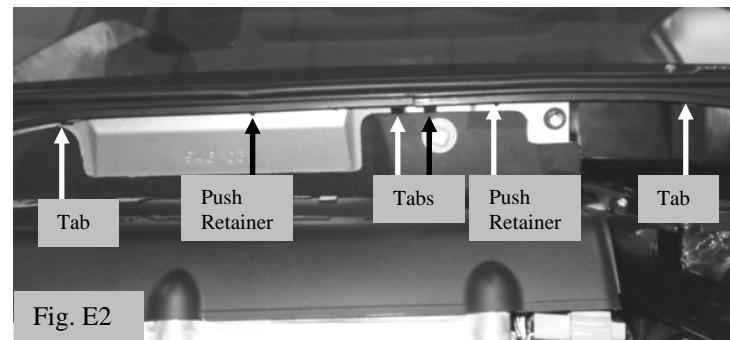


Fig. E2

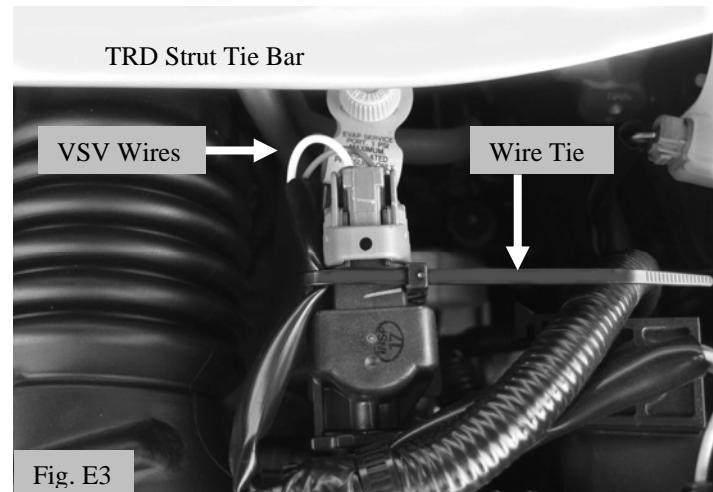


Fig. E3

5. Use diagonal cutters to trim the wire tie. (Fig.

E4)

6. Clean Strut Tie Bar with glass cleaner.



7. **Installer** – The installation manual contains important “**Care and Maintenance**” information. Place the instruction manual in the glove box for future customer reference.

### Care and Maintenance

- Your TRD Strut Tie Bar has a powder coated finish that ensures a maintenance free shine.
- To clean your Strut Tie Bar, simply spray with window cleaner and wipe with a soft, clean terry-cloth towel.
- NEVER use harsh chemicals or metal polish on your Strut Tie Bar. Harsh chemicals and metal polishes will permanently damage the finish of your TRD Strut Tie Bar.

TRD Strut Tie Bar



Fig. E4



## Section III – Functional Verifications

Check: \_\_\_\_\_Accessory Function Checks Clearance to vehicleLook For: \_\_\_\_\_

- Strut Tie Bar does not contact brake fluid reservoir.
- Strut Tie Bar does not contact insulation retainer nut.
- Strut Tie Bar does not contact VSV connector or wires.
- Strut Tie Bar Mounting Plates do not contact cowl/cowl cover.

Vehicle Function Checks Windshield Wipers

- Function of wipers
- Wipers do not contact windshield molding when “parked”.