



DINAN

FRONT STRUT BRACE INSTALLATION INSTRUCTIONS

D180-0012 Fits: 2011-12 335i (w/ N55 engine)

Congratulations for being selective enough to use a Dinan Engineering Front Strut Brace. We have spent many hours developing this kit to assure that you will receive maximum performance and durability with minimum difficulty in installation.

Please take the time to read these instructions thoroughly before proceeding. When performing the installation, read the entire numbered instruction before working on the vehicle. If you feel that you do not have the requisite skill, please arrange for a qualified repair facility to perform the installation.

If you encounter any difficulties during the installation, or if these instructions are not clear to you, please call Dinan's Technical Support Staff at (408) 779-8584.

Installation Notes:

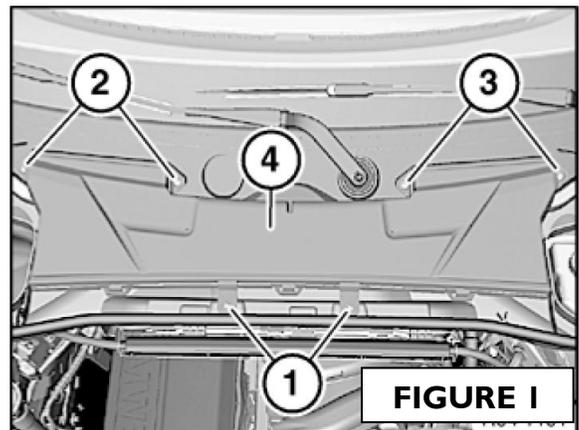
- To prevent unwanted alignment changes when installing this strut brace, leave the vehicle on the ground.

PARTS LIST

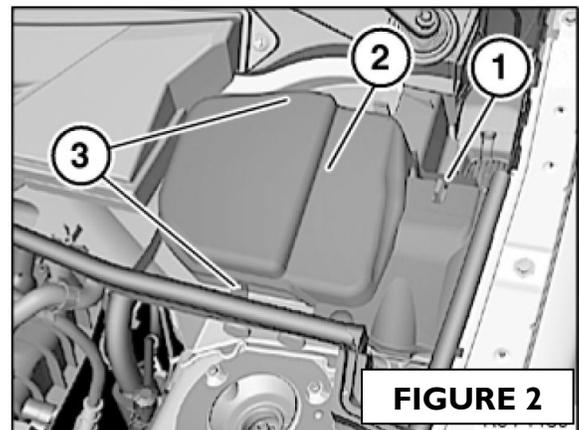
Qty	Part #	Description
1	D183-0039	Strut Brace Mount
1	D183-0037	Left Endplate
1	D183-0038	Right Endplate
1	D182-0045	Left Strut Brace (w/ "D" logo)
1	D182-0046	Right Strut Brace (w/ "DINAN")
1	D183-0040	Hardware Kit; includes (8) BMW M8x20 Hex Bolts (6) BMW M8 Recess Nuts (1) Zip-tie

INSTALLATION INSTRUCTIONS

1. Open hood and remove the upper microfilter housing (see Figure 1).
 - A. Remove the screws at (1), (2), and (3).
 - B. Lift out microfilter housing (4) and set aside.

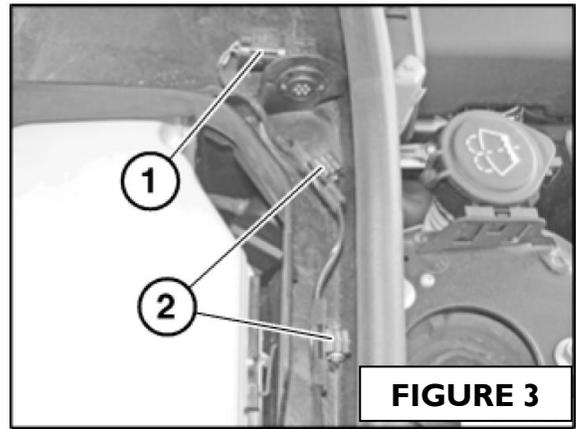


2. Remove the driver-side cover (see Figure 2).
 - A. Move aside the rubber latch at (1).
 - B. Release the catches at (3).
 - C. Remove cover (2) and set aside.

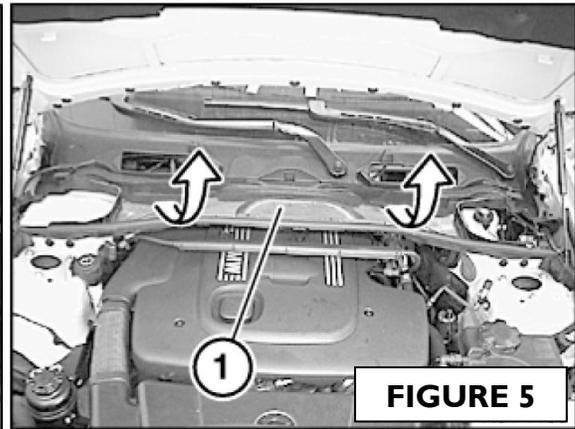
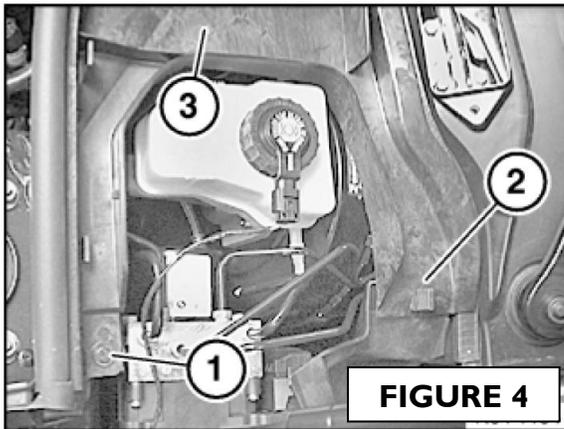


3. Remove the passenger-side cover in a similar manner, taking care to separate the windshield washer hose and clip if needed.

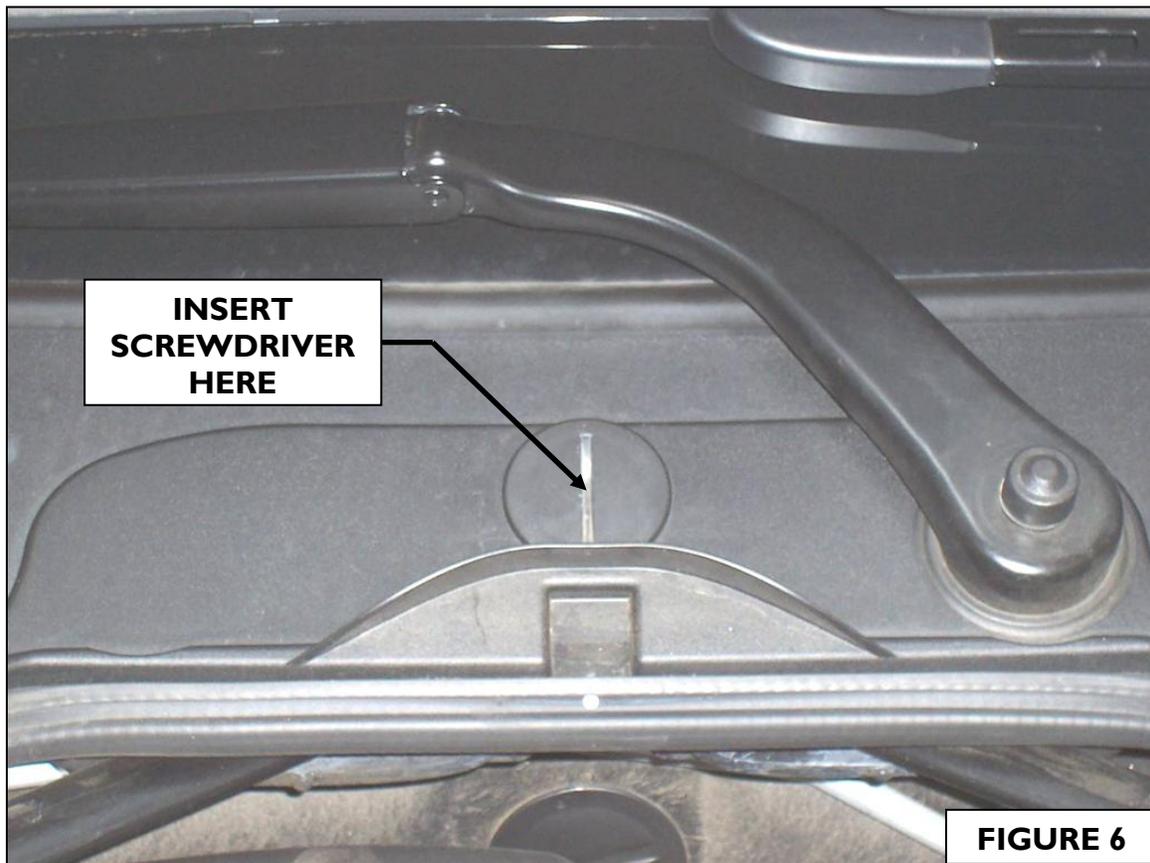
4. See Figure 3. Disconnect the sensor (1) and unclip the wiring harness from the guides (2).



5. Remove lower microfilter housing (see Figures 4 and 5).
- A. Move aside the rubber latch at (1) on both sides.
 - B. Remove the screws at (1) on both sides. Note – these screws are a fine thread. Do not confuse these screws with those removed earlier in Step 2!
 - C. Slide lower microfilter housing in direction of arrows to remove from vehicle, and set aside.



6. See Figure 6. Remove the black plastic circular cover at the base of the windshield. Insert large flat screwdriver in slot shown, rotate $\frac{1}{4}$ turn counter-clockwise, and remove cover.



7. See Figure 7. Using an E18 socket, remove the bolt below the cover.

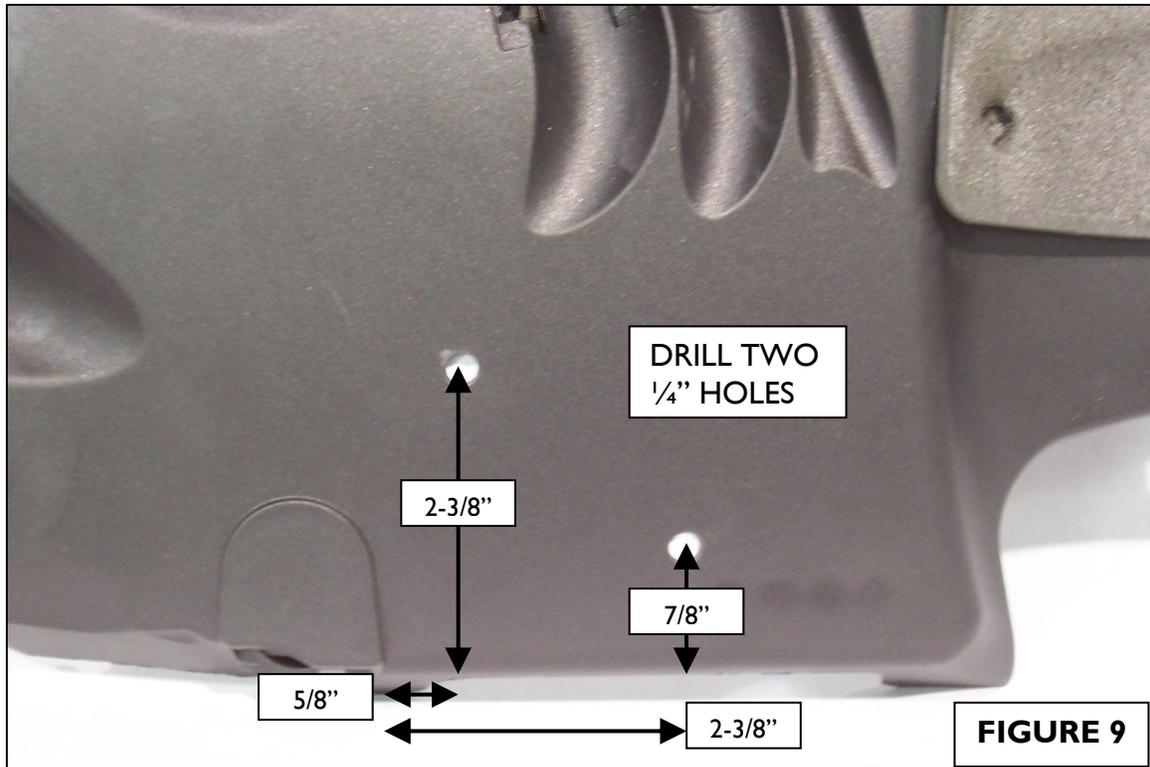


8. Remove V Braces from vehicle (see Figure 11).
 - A. Using an E14 socket, remove the bolts from the ends of the V Braces.
 - B. Pull out the V Braces from the vehicle.



9. Remove air filter housing top.
10. Release wire looms from clips on coil cover and rubber holders on the right side of engine.

11. Remove coil cover. See Figure 9. Measure from corner and edges as shown, and drill two 1/4" holes for cable tie.



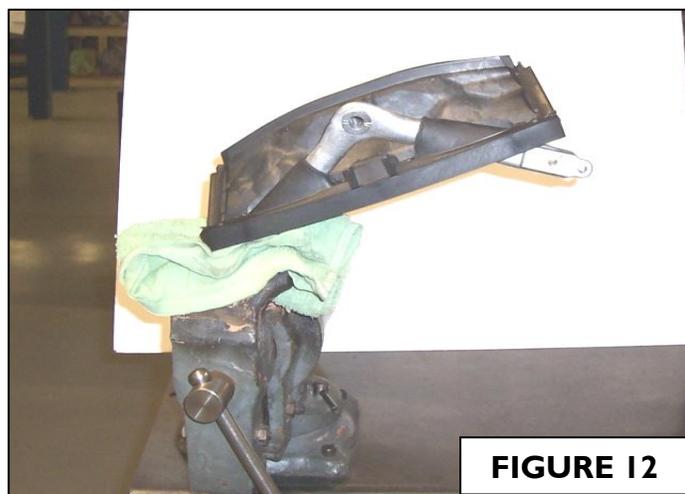
12. Insert cable tie as shown in Figure 10.



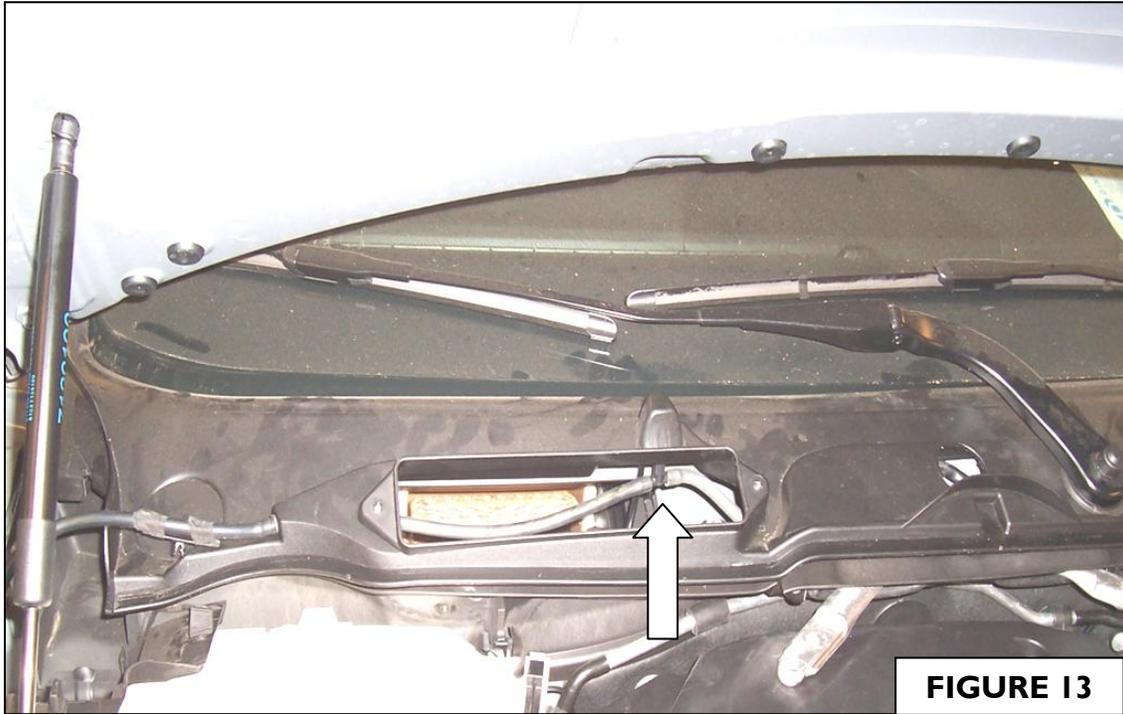
13. See Figure 11. Reinstall coil cover with cable tie under wire harnesses. Place wire harnesses inline with cable tie on coil cover and attach cable tie. Make sure wire harnesses are positioned like photo to prevent cable tie from damaging wire harnesses.



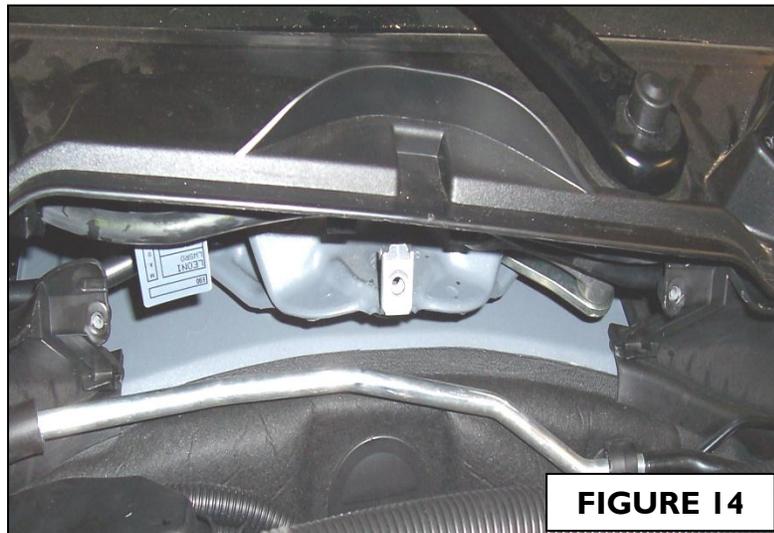
14. Reinstall wire harnesses and rubber holders to coil cover.
15. Reinstall air filter housing and coil cover.
16. Remove sealing strip from windshield cover and remove three screws from center panel with rubber boots for strut brace.
17. Remove panel and feed center strut brace mount from backside of panel thru one rubber boot and clamp that end in a vise. Carefully stretch rubber boots and panel over other end of center strut brace. See Figure 12.



18. Unclip windshield fluid hose from cover (see arrow in Figure 13).

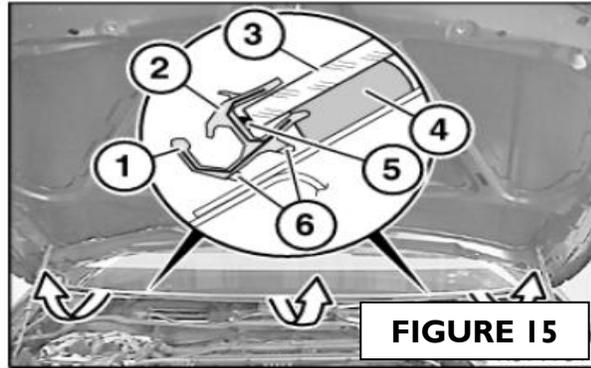


19. On left side of cover, pull down about one inch and then work it until you can allow for the center strut brace mount to be placed over center mounting tab (see Figure 14).

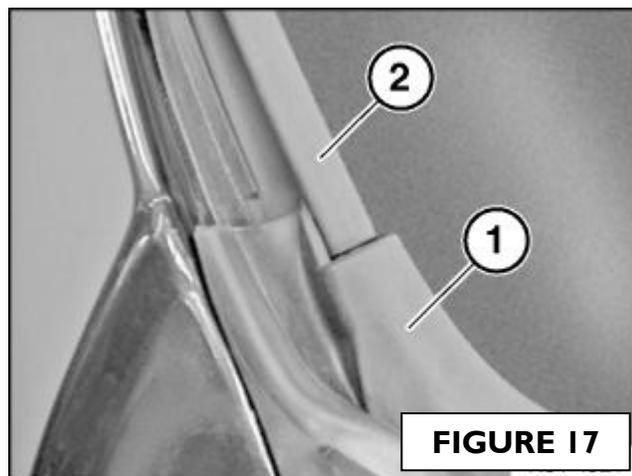


20. Install the center strut brace panel using the three screws that you removed earlier.

21. Reinstall windshield cowl paying close attention to the attachment of the two seals under cowl to windshield as shown in Figures 15 and 16.



22. See Figure 17. Cowl panel cover (1) must be correctly guided on right and left under windscreen cover (2).



23. See Figure 18. Loosely install bolt for center strut brace mount to body.



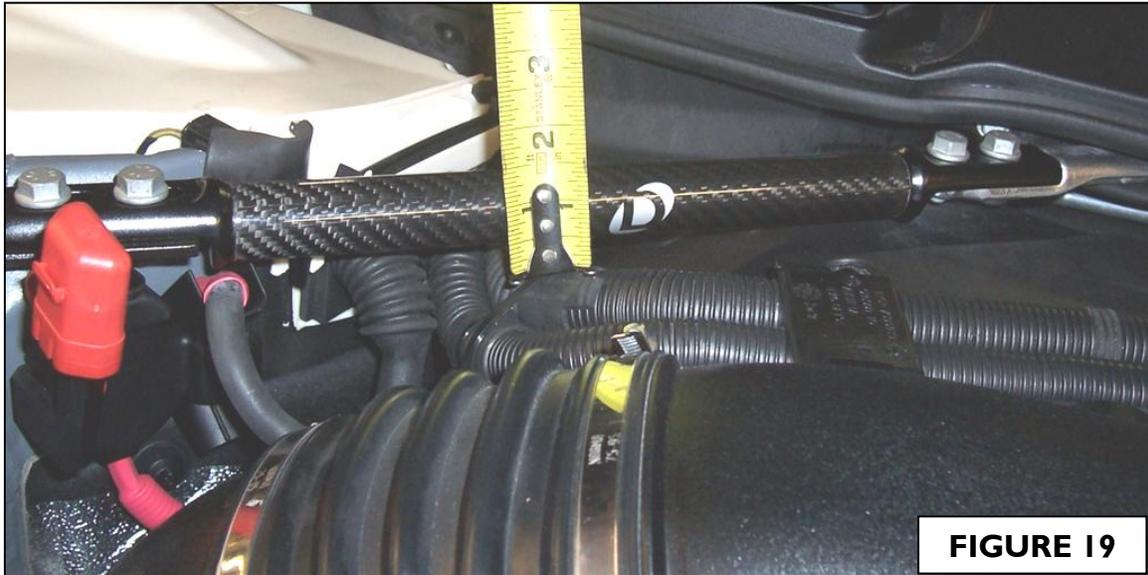
24. Front tires should be resting on the floor for the following steps.

25. Remove the strut tower nuts (3 per side). These are no longer needed.

** Pull one nut off per side first, to observe where the stud sits in the slots. This position is critical as it affects the front camber. Make a note of where the studs are positioned for each side, and try to maintain this position when installing the Dinan endplates.

26. Place the endplates on the studs and snug the recess nuts. Washers are not used with the Dinan recess nuts.

27. Install strut brace with “D” logo on passenger side, and brace with “DINAN” logo on driver side. Carefully center brace between strut brace mounts and snug in place using the (8) bolts provided. Make sure braces and mounts are in-line with each other. Also make sure there is approximately ½ inch clearance between left strut brace and wiring harnesses. See Figure 19.



28. When you are satisfied with the fit, tighten all hardware:
- A. Torque the center bolt to 74 ft-lbs.
 - B. Torque endplate recess nuts to 25 ft-lbs.
 - C. Torque strut brace bolts to 25 ft-lbs.

29. Replace the plastic cover.

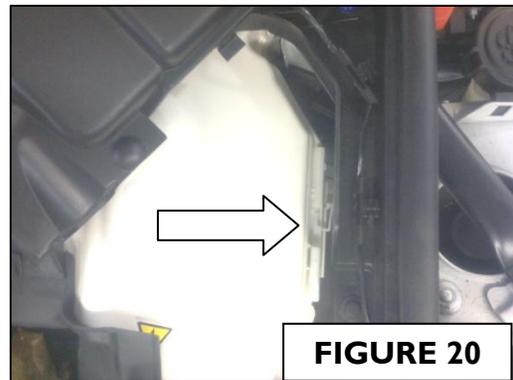
30. Reinstall the lower microfilter housing.

31. Reinstall the Two screws the hold down the Housing. Follow arrow in Figure 20.

32. Reinstall all the clips at the firewall.

33. Reinstall the sensor harness removed in Step 4.

34. Reinstall the side covers removed in Steps 2 and 3. Verify that the rubber latches are in their slots.



35. Reinstall the upper microfilter housing.

36. Double-check that all electrical connections are secure.

37. Thank you for purchasing a Dinan Strut Brace!