



STRUT TOWER BRACE INSTALLATION INSTRUCTIONS

PART NUMBER **D180-0390**

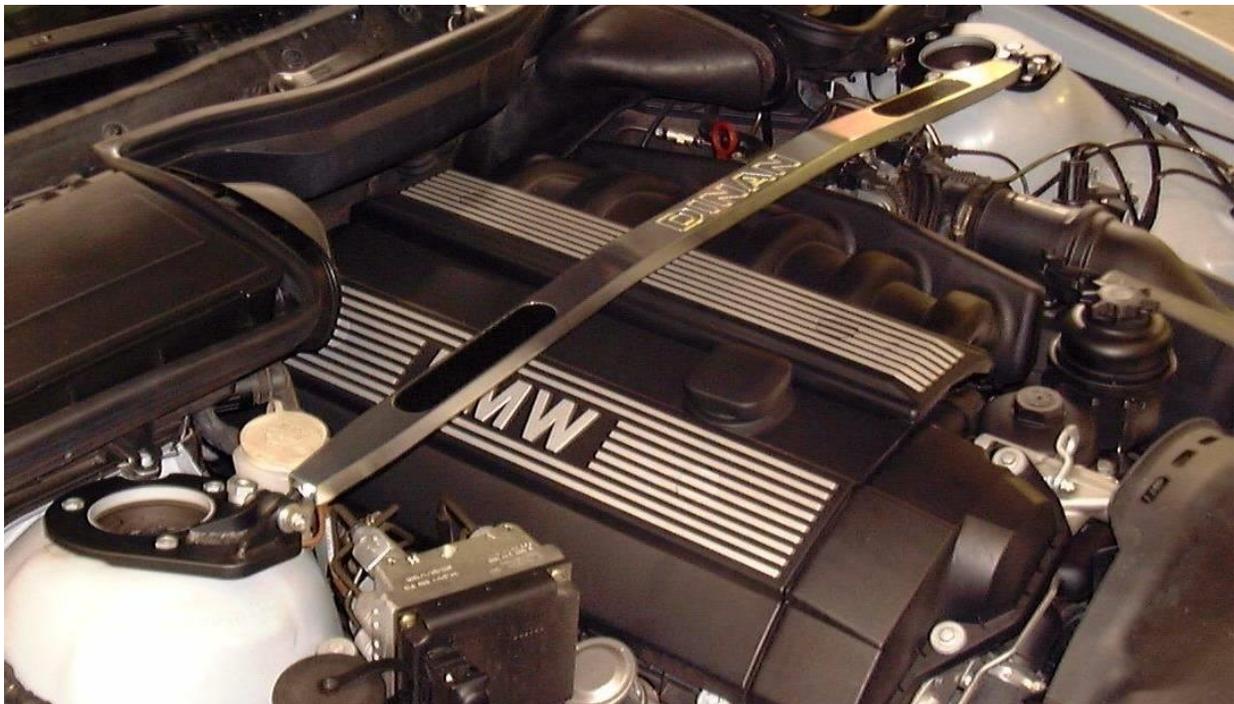
APPLICATION: 1996=> 528i (E39)
1996=> 540i (E39)
2000=> M5 (E39)

PARTS LIST

<u>Qty</u>	<u>Part Number</u>	<u>Description</u>
1	D183-0390	Left endplate assembly
1	D183-0394	Right endplate assembly
1	D183-2390	Brace center section
1	D183-1023	Hardware kit

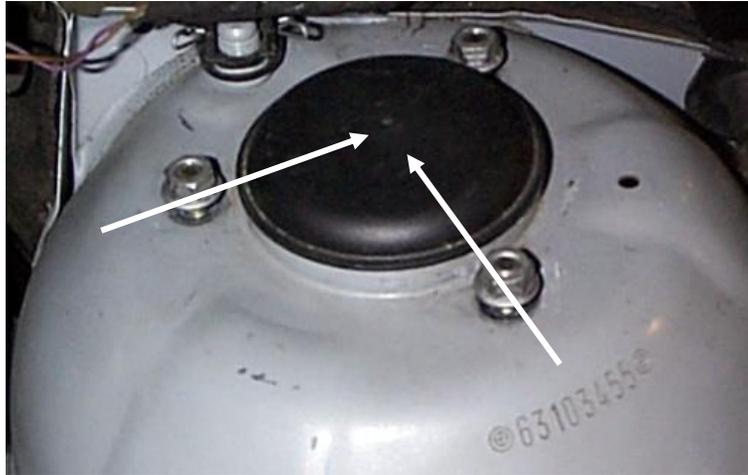
Congratulations for being selective enough to use a Dinan Engineering Stress Brace. We have spent many hours developing this brace to assure that you will receive maximum performance and durability with minimum difficulty in installation. Please take the time to read these instructions and call us if you have any difficulties during the installation.

To clear a strengthening rib in the hood we had to engineer endplates that would position the brace center section forward without compromising the strength of the Stress Brace Assembly.



Installation instructions

1. Park the vehicle on a flat, level surface. Remove the three flange nuts on top of each strut tower. You will not be reusing these nuts. Try not to move or disturb the vehicle until the stress brace is completely installed. Remove the plastic cap in the center.
2. Place the endplates onto strut towers with mounting ears forward and pointing inwards toward each other. **If they do not fit easily**, you may need to adjust the studs. The top hats that the studs are installed into are aluminum and after time the plates conform to the slightly rounded spring towers which makes the studs bow out away from the center. This makes the endplates hard to install unless you do a simple fix, thread the old nuts onto the studs until they just cover the top of the threads. Take a mallet and lightly tap the studs towards the center of the bearing. **Be careful not to over do it.** Recheck fit until the endplates fit. Install the new supplied flange nuts loosely so the endplates are free to move. Do not tighten them at this time.



3. Screw narrow jam nuts onto rod-ends leaving approximately 1/4" of thread exposed between the nut and head of the rod-end. Then screw both rod-ends into the brace up to the nut.
4. Carefully position the brace so that the rod-ends fall between the ears on the endplates. The brace center section should be installed so that the logo is readable from the front of the car. Adjust the rod ends inwards or outwards so that the holes in the rod-ends line up with the holes in the ears. Adjust the rod ends evenly so that the amount of exposed thread is equal on both sides. Do not tighten jam nuts at this time.
5. Attach the brace to the ears with the supplied stainless-steel hardware. The washers sit under the head of the bolt. The flanged nuts go on the back (see picture). Do not tighten at this time.



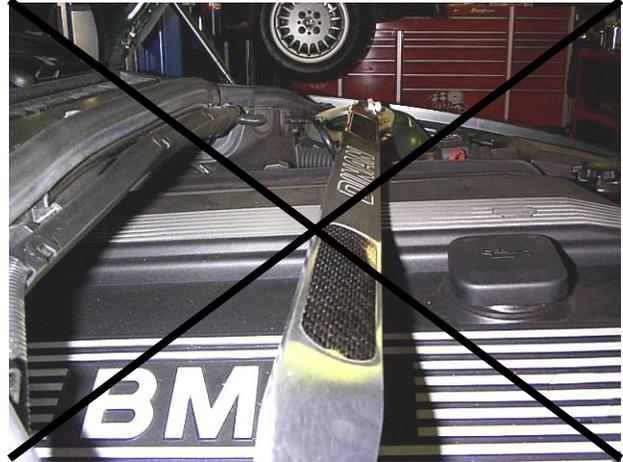
At this point all the pieces should be installed in position with none of the hardware tightened.

6. Now, secure endplates to strut towers. Nuts should be tightened to 18 ft-lbs.

7. Then tighten the ears. To maintain the finish on the ears, hold flanged nuts with wrench while tightening the Allen-head bolts.
8. Make sure the logo surface is parallel with the motor (see picture). ***If the center section is rotated down, *damage* may occur.** Tighten both jam nuts against brace to hold the adjustment.



Correct



Incorrect!

10. Enjoy!

PARTS LIST

<u>Qty</u>	<u>Part Number</u>	<u>Description</u>
1	D183-1023	Hardware kit
	Contains:	
2		3/8-16 Flange Nut
2		3/8-16 Hex Nut
2		3/8-16 Jam Nut
6		Locking Nut
2	D131-0265	3/8-16 x 1-1/2 Rod End
2	D671-0603	3/8-16 x 1-1/2 Allen
2		M10 Flat Washer
