

# **ARRINGTON**

## **PERFORMANCE**

**NASCAR Proven Power for the Street.**

**API Strut Tower Brace Installation Instructions**

by: Arrington Performance



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**INSTALLATION MANUAL**  
**Arrington Performance Strut Tower Brace**  
**LX/LC Vehicles – 2005-2011**

Please take a few moments to review this manual thoroughly before you begin work. Verify that your kit is complete (see parts list below). If you discover shipping damage or missing parts, please call us immediately. Review exactly what is required in terms of tools, time, and experience before undertaking this installation.

Congratulations on your purchase of an Arrington Performance performance strut tower brace for the Dodge Challenger, LX Charger, and Chrysler 300c equipped with a 5.7L or 6.1L HEMI engine. Installing a strut tower brace will improve the handling of your car and dress up your engine bay at the same time. This unit works by tying the two strut pillar towers together and reinforces the connection by bracing them against the firewall. When your vehicle corners, the strut bar distributes the cornering load across each strut tower thereby reducing chassis flex and keeping the car level. Once the Arrington Performance strut bar is installed on your LX or LC, you will notice that the front of your car will feel stiffer and that you have both more steering response and less body roll in the turns.

**Caution!** - Modifying your vehicle without the proper knowledge, tools, or precautions can be dangerous! Check your area before you begin the installation process. Remove any open flames such as cigarettes or pilot lights. DO NOT smoke in the installation area. Arrington Performance is not responsible for improper installation or damage to your vehicle caused by installation or improper driving.

Parts List:

- Strut Tower Brace
- 2 - 5/16 18x3.5" stainless steel allen head bolts
- 2 - Zinc plated 5/16 lock washer
- 2 - Zinc plated 5/16 nuts

Tools Required:

- Safety glasses
- Cordless drill
- 11/32 Drill bit (a sharp bit is preferred)
- 13MM Metric wrench or equivalent
- 5/16 Allen wrench
- 1/4 Allen wrench

Helpful Tools:

- Center Hole Punch
- Fender Blanket

Note 2011+ models may require:

- 6 - Plated Washers
- 6 - Plated Nuts
- 6 - Plated Lock Washers

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### **Step 1.)**

Begin by remove the strut tower mount covers on each side, and check that you have all the tools and parts needed for installation.

**Note:** Using a fender blanket will keep you from leaning directly on your fenders during installation. **Care should be taken to avoid scratching the paint on your fenders.**



### **Step 2.)**

Using a 13mm wrench, remove 3 nuts on passenger side strut tower.



### **Step 3.)**

Using a 13mm wrench, remove 3 nuts on driver side strut tower.





#### **Step 4.)**

Next, place the new strut tower brace into place and finger tighten the strut tower nuts in order to locate the holes for the strut tower brace tie-backs.



#### **Step 5.)**

Next, take the 11/32 drill bit and run it in the passenger side tie-back bolt location as shown. Make sure to apply enough pressure to score the paint on the under-hood brace for center punching.



#### **Step 6.)**

Next, take the 11/32 drill bit and run it in the driver side tie-back bolt location as shown. Make sure to apply enough pressure to score the paint on the under-hood brace for center punching.



### ***Step 7.)***

Use a center punch (or equivalent) to indent the location for the hole to be drilled to prevent wandering.



### ***Step 8.)***

Next, drill the hole for the passenger side strut tower brace tie-back bolt, making sure to drill the hole level and perpendicular to the under-hood brace as shown in the photo to the right.



### ***Step 9.)***

Drill the hole for the driver side strut tower brace tie-back bolt, making sure to drill the hole level and perpendicular to the under-hood brace as shown in the photo to the right.





### **Step 10.)**

Place the strut tower brace into position and apply the nuts loosely to allow for the insertion of the tie-back bolts.



### **Step 11.)**

Insert both of the tie-back bolts through the under-hood bracing as shown.



### **Step 12.)**

Next, apply the lock washer and the nut (in that order) to the tie-back bolts, and tightening them accordingly.



**Step 13.)**

Once the tie-backs are bolted securely into place, tighten down all of the strut tower nuts accordingly.

**Step 14.)**

Double check all nuts and bolts, including the pre-assembled end bracket 3/8 allen bolts which are shipped loose for packing and make sure they are tightened accordingly. Then gently close the vehicle hood to make sure the appropriate clearance is available for proper operation.