



**Detroit Speed, Inc.**  
**Rear Coilover Tower Brace Kit**  
 2016+ Camaro  
 P/N: 042433

The Detroit Speed, Inc. 2016+ Camaro Rear Coilover Tower Brace Kit is a bolt-in design that increases overall vehicle stiffness. It is made of lightweight aluminum with a black anodized finish that includes the brace and installation hardware. Detroit Speed recommends using this kit when switching over to a coilover suspension.



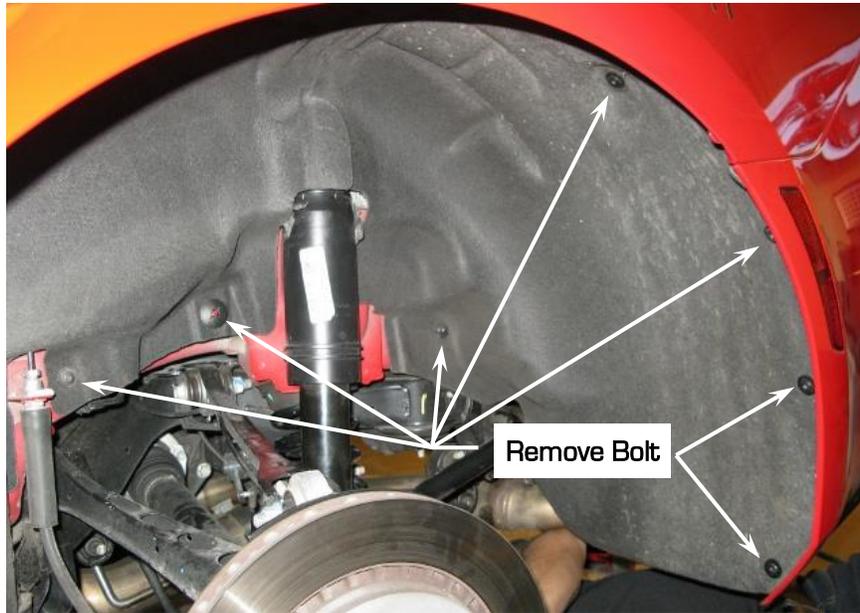
Item	Description	Quantity
1	Rear Coilover Tower Brace Assembly, LH & RH	2
2	Rear Coilover Brace Upper Backing Plate	2
3	Rear Coilover Brace Upper Shim	1
4	Rear Coilover Brace Spacer	6
5	3/8"-16 x 7/8"L Hex Flange Bolt	4
6	1/4"-28 x 1/2"L Flat Head Cap Screw	2
7	M10-1.5 x 90mm Socket Head Cap Screw	6
8	M10-1.5 Flange Nut	6
9	Instructions	1

**NOTE:** If you have purchased the Detroit Speed Rear Coilover Conversion Kit, these 2 kits can be installed simultaneously following both sets of instructions.

**Installation Instructions:**

1. With the vehicle safely up on jack stands, remove the rear wheels.

**NOTE:** We removed the wheelhouse splash shield to better show the installation. They can be removed by removing the following fasteners (Figure 1).



**Figure 1 - Remove Shield (if necessary)**

2. Support the lower control arm assembly with a floor jack. Remove the 3 flange nuts that hold the upper shock mount to the vehicle using a 15mm socket (Figure 2). Repeat this step for the opposite side of the vehicle.



**Figure 6 - Remove Upper Shock Mount Nuts**

3. Fold down the rear seat from inside the vehicle. Remove the hardware from the interior panels in the trunk area. Remove all panels from the vehicle (Figure 3 on the next page).



**Figure 3 – Remove Trunk Panels**

4. Locate the upper shock mount inside the trunk. Drill out the spot welds and remove the upper shock mount stud plate (Figure 4). Repeat this step for the opposite side of the vehicle.



**Figure 4 – Drill-Out Spot Welds**

5. Place the side interior trunk panels back in position in order to locate the holes that need to be drilled for the tower brace. From the wheel house, mark the interior trunk panels with a marker on both sides of the vehicle. (Figure 5 on the next page).



Figure 5 - Transfer Hole Locations

6. Remove the interior trunk panels and locate the marked holes on the backside of the panels. Punch a hole through the marked locations to transfer the holes to the front side of the panels (Figure 6).

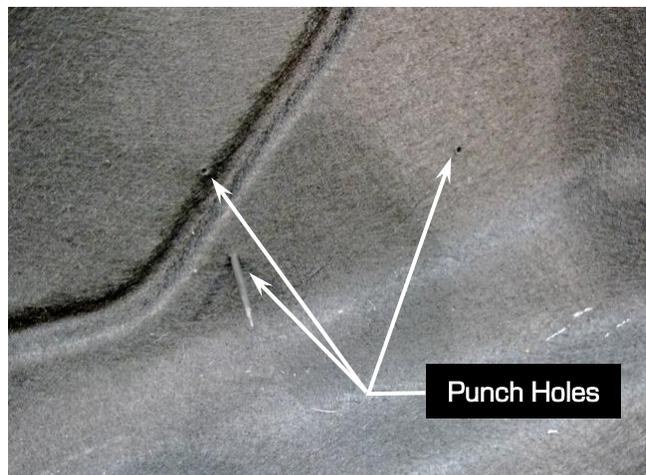
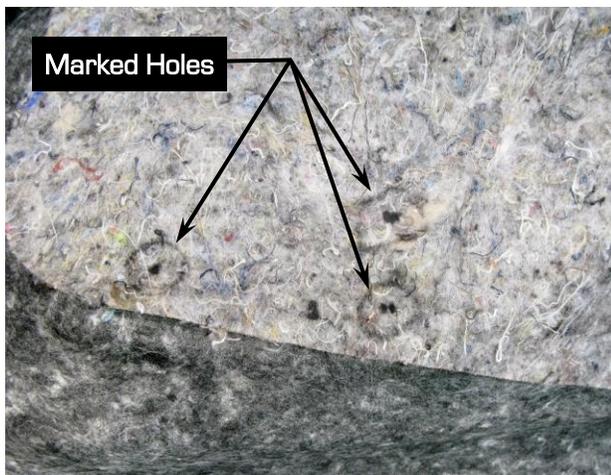


Figure 6 - Punch Hole Locations

7. Drill a pilot hole through the 3 marked locations on the interior panels. Use a Uni-bit or drill bit to open the holes to diameter of about 1-1/8" (Figure 7). **NOTE:** Peel back the insulation on the back side of the panels before drilling. Make sure the tower brace spacers pass through the holes easily with clearance.

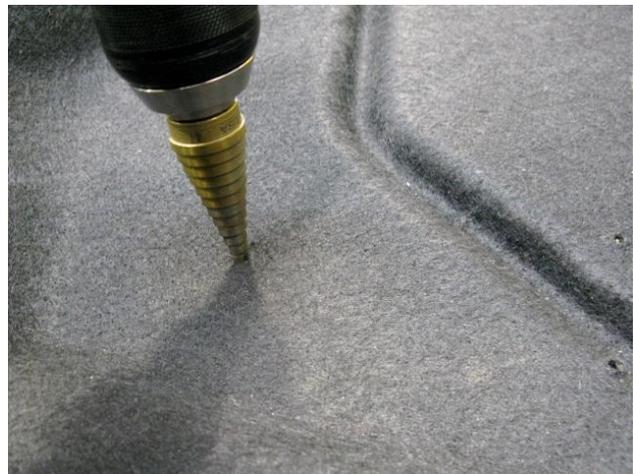


Figure 7 - Drill Spacer Holes

8. Re-install the interior trunk panels into the vehicle (Figure 8).



Figure 8 - Re-install Trunk Panels

9. Place the upper mount backing plate into the vehicle through the slotted holes in the rear seat brace (Figure 9).

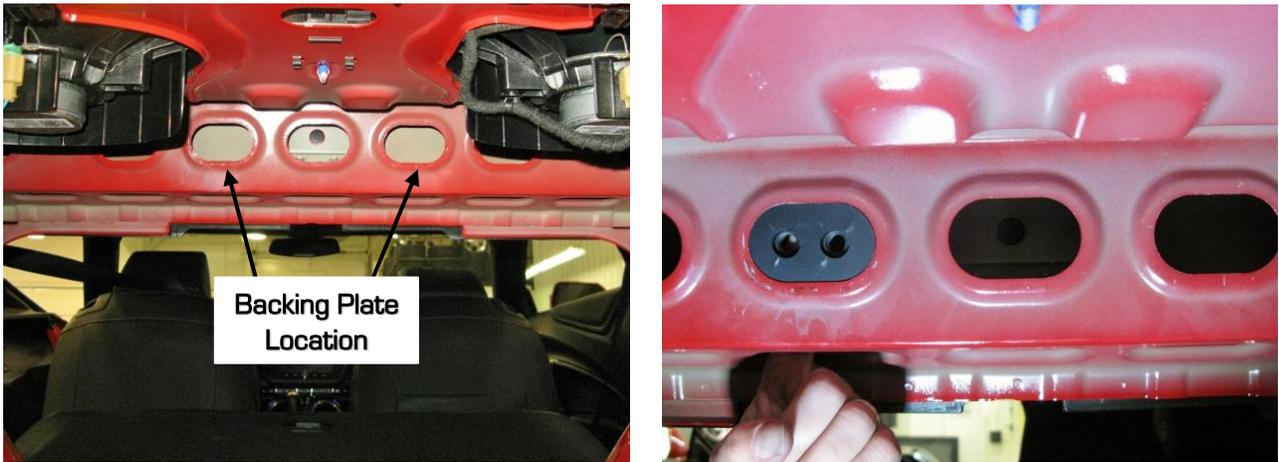


Figure 9 - Position Upper Mount Backing Plate

10. Position one side of the rear coilover tower brace assembly to the rear seat brace. To help locate the brace, you can place 2 of the provided M10-1.5 x 90mm socket head cap screw bolts through the brace and the wheelhouse structure (Figure 10 shown without interior panels in place).



Figure 10 - Position Tower Brace

11. Install 2 of the provided 3/8"-16 x 7/8"L flange bolts through the upper mount in the tower brace assembly and into the backing plate (Figure 11). **NOTE:** Leave these bolts loose until the opposite side tower brace assembly has been installed.



Figure 11 - Attach Upper Mount to Vehicle

12. Repeat steps 9 through 11 for the opposite side of the vehicle. Install the provided 1/4"-28 x 1/2"L flat head cap screws into both the left and right hand tower brace assembly upper mount. **NOTE:** Leave these loose for now.
13. Position the rear coilover tower brace assembly to the vehicle where the upper shock mount was removed in step 4. Place 3 of the provided M10-1.5 x 90mm socket head cap screws through the tower brace lower mount. Fit the provided spacers between the lower mount and the vehicle making sure they pass through the interior trunk panels (Figure 12). Repeat this step for the opposite side of the vehicle.



Figure 12 - Install Lower Mount to Vehicle

14. Re-install the rear shocks to the tower brace using 3 of the provided M10-1.5 flange nuts on each side (Figure 13 on the next page, shown with Detroit Speed rear coilover conversion kit). **NOTE:** If you are installing the Detroit Speed Rear Coilover Conversion Kit, follow the installation instructions provided with that kit.



**Figure 13 - Install Rear Shocks to Tower Brace**

15. While tightening the 3/8"-16 bolts from inside the trunk, slide the upper mount shim in between the tower brace assembly and the rear seat brace (Figure 14). Torque the 3/8"-16 bolts to 35 ft.-lbs. Tighten the 1/4"-28 fasteners.



**Figure 14 - Install Upper Shim**

16. Torque the M10 hardware connecting the upper shock mounts to the tower brace kit to 40 ft. /lbs. (Figure 15).



**Figure 15 - Tower Brace Assembly**

17. Re-install the interior panels that were removed from the trunk from Step 3.
18. If you had removed the wheelhouse splash shields, re-install them at this time. Put the rear wheels back on and torque the lug nuts to proper OEM specs.

Once again, we appreciate your business.

If you have any questions before or during the installation of this product please contact Detroit Speed at [tech@detroitsspeed.com](mailto:tech@detroitsspeed.com) or 704.662.3272

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