



## BAVARIAN AUTOSPORT

# Adjustable Upper Strut Mounts Installation Instructions

**SAFETY WARNING:** Installation of the Bavarian Autosport Adjustable Upper Strut Mounts requires disassembly of the spring and strut assembly. For safety purposes, it is recommended that a qualified technician perform this installation.

**NOTE:** After installation of the Bavarian Autosport Adjustable Upper Strut Mounts, the camber and caster will need to be adjusted on an alignment rack.

### INSTALLATION ASSUMPTIONS:

These instructions will assume that the installer is either familiar with the procedures for replacing standard BMW upper strut mounts OR has access to the applicable repair manuals and an appropriate level of experience to perform this task. Repair manuals for the appropriate vehicles are available from Bavarian Autosport.

### PROCEDURE:

1. Following the procedures outlined in the appropriate repair manual, remove both front strut assemblies from the vehicle.
2. Again, following repair manual procedures, remove the upper strut mounts from the strut assemblies.
3. Reassemble the strut assemblies using the Bavarian Autosport Adjustable Upper Strut Mounts in place of the original mounts.

### NOTES:

- a) Some upper strut mounts have an integral upper spring perch. The kits for these applications will include a separate upper spring plate to be used with the new mount.
  - b) Kit #193416 (5 series 89 thru 96) may require modification depending on the production date of the vehicle.  
*Please note: BMW did not strictly adhere to its own production dates, thus the modification required for your 5 series may apply to a different production date, but one of the following modifications will apply. The appropriate modification will be apparent from the configuration of your BMW's strut assembly.*
    - 1) 5 series thru 6/90 - Install the included reducer sleeve onto the shock shaft before installing the mount assembly onto the shock.
    - 2) 5 series 7/90 thru 96 (except 525i 9/92 on) - Install without reducer sleeve.
    - 3) 525i 9/92 on - There is an extension bushing installed above the actual ball bearing, which extends the length of the inner bearing race. Using a cold chisel against the side of the bushing, knock it out. Install the included reducer sleeve onto the shock shaft before installing the mount assembly onto the shock.
  - c) Kit #193816 (7 series thru 87) Install the supplied extra washer between the spring seat and the new camber upper mount, in addition to the original washer(s) that were used in this location. Verify that the upper mount bearing turns freely (does not rub on spring plate) once the strut assembly is fully assembled.
4. Remove the top reinforcement ring from the Bavarian Autosport Adjustable Upper Strut Mounts by threading off the three nuts on the mounting studs and then pulling the ring off (do not remove the second ring).

**NOTE:** The adjustable mount assembly is normally intended to **increase** negative camber. If you wish to **decrease** negative camber, the mount assembly must be disassembled and the center section of the mount rotated in relation to the lower stud mount plate as shown on the mount assembly itself.

5. Install the strut assembly back into the vehicle. Before threading on the three top strut mount nuts, slide the reinforcing ring down over the strut mount studs (the welded-on lift pads go downward). Thread the three nuts on but do not fully tighten them.



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6. Secure all other hardware and lower the vehicle. If camber and caster are to be set at this time, the vehicle should be bounced and rolled back and forth in order to settle the suspension to its natural state.
7. The camber and caster can be set by inserting a screwdriver in the slots at the edges of the urethane and prying the center section of the mount to the desired position for camber and caster. (See notes 1-4 below.) Once the desired settings are achieved, tighten the three top mount nuts on each mount.
  1. Increase negative camber: Move mount toward center of vehicle.
  2. Decrease negative camber: Move mount toward outside of vehicle.
  3. Increase positive caster: Move mount toward rear of vehicle.
  4. Decrease positive caster: Move mount toward front of vehicle.

**NOTE:** If the vehicle needs to be moved to another facility to perform the alignment, do your best to get both mounts set to a similar position and tighten the three nuts on each.



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