



INSTALLATION INSTRUCTIONS

*QA1 Economy Pro Coil coil-over shock kits
P/N GE401, ME301, ME302, ME303*

READ ALL INSTRUCTIONS CAREFULLY AND THOROUGHLY PRIOR TO STARTING INSTALLATION. PRODUCTS THAT HAVE BEEN INSTALLED ARE NOT ELIGIBLE FOR RETURN. USE THE PROPER JACKING LOCATIONS. DEATH OR SERIOUS INJURY CAN RESULT IF INSTRUCTIONS ARE NOT CORRECTLY FOLLOWED. A GOOD CHASSIS MANUAL, AVAILABLE AT YOUR LOCAL PARTS STORE, MAY ALSO AID IN YOUR INSTALLATION.

• DISCLAIMER / WARRANTY •

QA1 WARRANTS THAT THE PRODUCTS WILL BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR ONE YEAR FROM DATE OF SALE TO THE ORIGINAL PURCHASER. QA1 MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. QA1 SHALL HAVE NO OBLIGATION UNDER THE FOREGOING WARRANTY WHERE THE DEFECT IS THE RESULT OF IMPROPER OR ABNORMAL USE, YOUR NEGLIGENCE, VEHICLE ACCIDENT, IMPROPER OR INCORRECT INSTALLATION OR MAINTENANCE, NOR WHEN THE PRODUCT HAS BEEN REPAIRED OR ALTERED IN ANY WAY. QA1'S LIABILITY IN THE CASE OF DEFECTIVE PRODUCTS SUBJECT TO THE FOREGOING WARRANTY SHALL BE LIMITED TO THE REPAIR OR REPLACEMENT, AT QA1'S OPTION, OF THE DEFECTIVE PRODUCTS.

THE USER UNDERSTANDS AND RECOGNIZES THAT RACING PARTS, SPECIALIZED STREET ROD EQUIPMENT, AND ALL PARTS AND SERVICES SOLD BY QA1 ARE EXPOSED TO MANY AND VARIED CONDITIONS DUE TO THE MANNER IN WHICH THEY ARE INSTALLED AND USED. QA1 SHALL BEAR NO LIABILITY FOR ANY LOSS, DAMAGE OR INJURY, EITHER TO A PERSON OR TO PROPERTY, RESULTING FROM THE INSTALLATION, DIRECT OR INDIRECT USE OF ANY QA1 PRODUCTS OR INABILITY BY THE BUYER TO DETERMINE PROPER USE OR APPLICATION OF QA1 PRODUCTS. WITH THE EXCEPTION OF THE LIMITED LIABILITY WARRANTY SET FORTH ABOVE, QA1 SHALL NOT BE LIABLE FOR ANY CLAIMS, DEMANDS, INJURIES, DAMAGES, ACTIONS, OR CAUSES OF ACTION WHATSOEVER TO BUYER ARISING OUT OF OR CONNECTED WITH THE USE OF ANY QA1 PRODUCTS. MOTORSPORTS ARE DANGEROUS; AS SUCH, NO WARRANTY OR REPRESENTATION IS MADE AS TO THE PRODUCT'S ABILITY TO PROTECT THE USER FROM INJURY OR DEATH. THE USER ASSUMES THAT RISK!

TOOLS AND SUPPLIES REQUIRED

- Floor Jack
- Jack Stands
- Ball Joint Separator
- Spanner Wrench (QA1 P/N T114W or T115W)
- SAE Wrench Set
- SAE Socket Set
- Coil Spring Compressor
- Permatex® Anti-Seize Lubricant

DO NOT VOID YOUR WARRANTY!

Permatex® Anti-Seize Lubricant should be used on coil-over threads to prevent galling. Failure to lubricate the coil-over threads with Anti-Seize prior to making ride height adjustments will cause damage to your shock absorber and will void any warranty. All ride height adjustments must be made with the vehicle weight completely unloaded from the suspension. Please call QA1 Technical Support with any questions.

DISASSEMBLY INSTRUCTIONS

1. Measure the vehicle ride height from the ground to the center of the wheel wells and record these measurements.
2. Unbolt front upper shock mounts from inside the engine bay.
3. Raise and support the vehicle by the frame with jack stands on a stable surface and remove front wheels.
4. Remove the sway bar end links.
5. Unbolt lower shock mounting bolts and remove the shocks from the car.
6. Remove the cotter pin from the lower ball joint and loosen the castle nut. Do not remove the nut.

7. Separate the lower ball joint from the spindle using a ball joint separator.
8. With a spring compressor, compress the coil spring to remove tension from the lower control arm.
9. With the spring tension off of the control arm remove the ball joint nut and spring from the car.
10. If installing GE401 shocks, it is necessary to remove the welded nuts or "U" clips for the stock shock mount on the factory control arms. This can be accomplished with a grinder or hammer and chisel. The holes may then need to be enlarged to 3/8".

INSTALLATION INSTRUCTIONS

1. Install the snap ring on the shock body and slide the coil-over sleeve over the shock body and snap ring. The taper on the inside of the sleeve should slide over the snap ring. This will secure the sleeve in place. NOTE: the sleeve must fit over the snap ring and does not sit on top of the snap ring. See Figure 1 and 2.
2. Screw the aluminum lock nut (shoulder up) and the spring seat adjuster nut (shoulder up) down to the last thread - NO FURTHER. (See Figure 2) Now is a good time to lubricate the threads of the sleeve with **Permatex® Anti-Seize lubricant**.
3. QA1 highly recommends using the QA1 thrust bearing kit (P/N 7888-109) for ease of adjustment. If the thrust bearing kit is used, coat both sides of the washers with **Permatex® Anti-Seize lubricant**. Install the stainless steel spring seat washer, then the bearing, then the second washer.
4. If the thrust bearing kit is not used, coat one side of the stainless steel spring seat washer with **Permatex® Anti-Seize lubricant**. Place the lubricated side of the washer down on the spring seat.
5. With the piston rod fully extended, install a washer and bushing on the piston rod. Slide the small diameter end of the shock over the shock down to the spring seat adjuster.
6. Insert the assembly into the upper spring pocket. Install another bushing, washer and nut. Do not tighten the nut at this time. Align the pig tail on the spring with the recess in the upper spring pocket if needed.
7. With a jack under the lower control arm, raise the lower control arm up to the lower shock mount and install the bolt(s). The GE401 mounting is shown in figure 3.
8. With the lower shock bolts installed, jack the lower control arm up and reconnect the lower ball joint and tighten to the factory specification. Install a new cotter pin.
9. Using a spanner wrench, adjust the spring seat adjuster about 1½" to 2" above the bottom-most thread for a factory ride height. If you have not done so, lubricate the threads of the sleeve with **Permatex® Anti-Seize lubricant**.
10. Re-install the sway bar end links
11. Re-install the front wheels.
12. Lower the car to the ground and check the vehicle ride height referring to your notes from step 1 of disassembly. Raise the car off the ground and adjust the ride height as necessary using a spanner wrench. Once you have the ride height set, tighten the lock nut against the spring seat adjuster.
13. An alignment should be performed by a reputable alignment shop after any changes to the suspension.



Figure 1



Figure 2



Figure 3