



Installation Instructions: Part # C-GSA149 Rear Tube-shock Conversion Kit for 1/4-eliptic Sprites & Midgets

Read all Instructions thoroughly and identify all kit parts before proceeding. The illustrations are based on the general arrangement of the left side of the car. The right side is the reverse. The general layout is illustrated in <u>Figure 1</u>.

This kit contains parts and instructions necessary to install tube shock absorbers but does not include them. Standard or adjustable shock absorbers must be ordered separately.

Installing the kit requires raising the rear of the vehicle. Follow the procedures given in any good workshop manual to assure safety. **Be sure to use jackstands to support the weight of the vehicle. Since you will be lying under the car and will be drilling holes**, **BE SURE to wear safety glasses**.

This kit was developed to be compatible with the stock exhaust pipe installation, i.e.: The left hand shock absorber does not interfere with the exhaust pipe. If an aftermarket system has been installed, it may have to be modified to provide the necessary clearance.

Chassis Bracket Installation

1) Raise the rear of the car and support the body with jackstands at the region of the forward spring mount. Do not support the weight of the car by sheet metal floor panels alone. Remove the jack and let the axle assembly hang from the rebound straps. Remove the wheels.

2) Lay out the location for the upper attach bolt hole in the damper support bracket as shown in **Figure 2**. Drill a small diameter pilot hole through the bracket wall at the marked place and then enlarge to 1/2'' diameter.

3) Remove the lever shock by unbolting the body of the shock from the chassis and the link from the axle fitting . Retain the attaching hardware for installation of the 8S1007 (left-hand) and 8S1008 (right hand) brackets.

4) Remove the forward radius arm pivot bolt retaining nut and drive out the pivot bolt using a suitable drift or 7/16'' diameter bolt to maintain the alignment of the arm and any spacers that may be installed.

5) Loosely attach the shock bracket to the chassis with the lever shock mount bolts and the radius arm bolt. Use two WS5061 washers under the nut for the forward lever shock attach bolt to prevent the threads from bottoming out.

6) Check that the HF0624 upper tube shock attaching bolt passes through both the kit bracket and the clearance hole in the damper bracket. Enlarge the hole if necessary. When the mounting bolt passes through, secure the other three mounting bolts.

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Tube Shock Installation

1) Loosely attach the tube shock to the chassis bracket and axle fitting using the hardware shown in **Figure 3**. Run the nuts down but do not tighten at this time. Note that both the upper and lower mounting bolts are installed with the bolt heads outboard and that the SR0806-04Z Spacer is inserted in the existing hole in the axle fitting.

2) After the shocks have been attached on both sides, place a jack under the center of the axle housing and raise the axle until the vehicle is just off the jack stands.

3) Secure the shocks by tightening the upper mounting bolts to 300 inch-pounds and the lower to 450 inch-pounds.

4) Lower the axle housing until the body is just on the support stands and slowly lower the car, checking for interference with the exhaust pipe and left-hand lower shock attachment. If interference is encountered, relieve it by sawing or sawing off excess threads on the lower mounting bolt and/or rerouting the exhaust pipe.

5) When adequate clearance has been achieved, tighten any fasteners left loose and re-install the wheels. Lower the car to the ground.

<u>Ref. No.</u>	<u>Part No.</u>	Description	<u>Qty/kit</u>
1	8S1007	Shock Bracket, rear, LH	1
2	8S1008	Shock Bracket, rear, RH	1
3	SR0806-04Z	Spacer, .50"od x .37"id x .25" steel	2
4	SR1006-08Z	Spacer, .63"od x .38"id x .50" steel	2
5	HF0624	Bolt, 3/8-24 x 3.00", gr5	2
6	HF2620	Bolt, 3/8-24 x 2.50", gr5	2
7	NP1061	Nut, 3/8-24, gr5	2
8	NP1062	Nut, 3/8-24, gr8	2
9	WL3061	Split Lockwasher, 3/8"	4
10	WS5061	SAE Washer, 3/8"	6
11	WU6051	USS Washer, 5/16" (.38"id)	8
12	GMT543	Bulkhead Plug, 3/8″	2

Parts List





