

Technical Bulletin—How to Prime a Shock or Strut

Occasionally, light-vehicle twin tube shocks and struts are misdiagnosed as faulty when removed from the box for installation. On the initial stroke of the product you may notice a dead band or erratic damping at the top of the stroke of the shock or strut. This is a normal occurrence and the shock will function properly once it has been primed.

This characteristic occurs in all twin tube shocks and struts because they lie on their sides during shipping and storage.

Over time, the oil and gas inside the unit move between chambers while the product lies on its side. When the oil and gas are mixed in the working chamber, the damping effect may be irregular. Priming the unit removes the gas from the working chamber and moves it back into the reservoir. This is a normal operation that occurs once shocks and struts are installed in their proper upright position in the vehicle.

Gabriel shocks and struts are all self-priming, so manual priming is not necessary. However, if you or your customers are in doubt, you can easily prime a shock or strut prior to installation. In order to manually prime a shock or strut, please do the following:

- 1) Stand twin tube shock or strut vertically with the piston rod pointing up.
- 2) Compress piston rod into unit using a mechanical device or pushing with hands and body weight until fully compressed (do not use excessive force to compress unit due to the potential of damaging the valving in the unit).
- 3) Repeat 3 to 5 times until you feel full resistance through entire range of stroke.
- 4) Shock or strut is now ready for installation.

Monotubes do not need to be primed. The oil and gas are physically separated, and there is no chance of mixing damping oil with gas.

If you have any questions or concerns, please call the Gabriel Answerman Tech Line for technical assistance at 1-800-999-3903, and we will gladly assist you.