



FORCE ADJUSTMENT INSTRUCTIONS

- Fit the gas struts with the cylinder uppermost; this prevents oil escaping while venting, and keeps the internal seals lubricated for optimum lifespan.
- Using the allen key provided, undo the grub screw anti-clockwise a quarter turn and vent gas for 1 second, retightening the grub screw. Do not over tighten the grub screw.
- Repeat this process on the second gas strut, venting an equal amount. Only release the pressure in short bursts to avoid venting too much gas. Each 1 second burst will lower the force by approximately 20N - 50N depending on the range.
- Test the application by attempting to close the panel and repeat the venting process if the struts are still too powerful.
- Once the gas struts have been adjusted, gently brush the grub screw with washing up liquid. If gas can be seen bubbling through the liquid then the grub screw requires further tightening.

For advice on how to safely mount gas struts call our technical line: 01604 499332.

Gas struts are filled with high pressure nitrogen, they should be protected from damage; never open, modify, drill, weld or subject gas struts to excessive heat.



INSTALLATION INSTRUCTIONS

For standard compression gas struts we advise the use of ball joints to alleviate possible side loading, and uneven wearing of the piston rod/seals.

Install the strut, piston rod down, for optimum lubrication of the guide and sealing system at all times (see figure 1). Always install the strut in its relaxed state.

It is advisable to keep the strut in a single plane of movement. Failure to adhere to this advice may result in a reduced lifespan of the strut.

Ensure that the end fittings are tightly fastened onto the thread of the gas struts prior to fitting. If the end fittings require aligning, the piston rod of the gas strut can rotate inside the body (cylinder). Place and hold the piston end fixing on a flat surface, grip the cylinder and firmly twist it until the end fitting is aligned correctly (see figure 2).

fig .1



fig .2



Fitting brackets

When utilising a bracket with a ball stud/end, the procedure to fit it to the relevant ball joint fitting is as follows:

1. Remove the retaining clip from the ball socket by rotating it from around the collar of the socket, and then pull it out from the two locating holes.

2. Ensure the ball socket is fully tightened onto the thread of the strut. Then, using a vice or pair of pliers, grip the ball stud and with a rotating motion, remove the ball stud from the socket.

3. Once removed, place the ball socket over the corresponding bracket and press firmly downwards until a positive 'click' is heard.

4. Once the ball of the bracket is firmly located inside the socket, reinsert the retaining clip into the two locating holes, and clip it back over the collar of the socket.



If in any doubt as to the installation procedure please contact Metrol on 01604 499 332.