

# SHOCK ABSORBER MOUNTING GUIDE

There are several options to mount shock absorbers to caravan or trailer suspension and multiple ways of determining the correct positioning of your shock absorbers. The ideal shock absorber mounting position will depend on wheel size and spring type.

Couplemate™ have developed a guidelines document to assist with standard installation best practice. However, please ensure you take measurements specific to your application or consult a professional repairer or installer for further advice.

## Kit Inclusions

The Shock absorber kits come with 2 x top 50mm “U” brackets and 2 x bottom “L” shape brackets. The bottom brackets are designed to fit under your fish plates and are slotted to accommodate various size U-Bolts. The top brackets attach to the chassis, cross-member, or any rigid point and can be welded or drilled & bolted into position.



## Setting The Shock Absorbers

Shock absorbers measure 255mm in the closed position and 380mm extended. Therefore, their overall travel distance is 125mm.



To find the optimum shock absorber fitment height, half the overall travel distance to get 62.5mm.

*255mm (closed) plus 62.5mm (half the travel) is 317mm and 380mm less 62.5mm is 317mm.*

Thus, the optimum set up measurement of the shock absorber is approximated at 317mm, facing towards the rear of the trailer at no more than 30° angle.

NOTE: These measurements are dependent on the type of springs, size of the wheel, the full bump and full hang measurements.

## Mounting The Shock Absorber

You should ensure you have bled your shock absorbers before mounting. Open and close the shock absorbers multiple times to extreme compression & extension until any air that may have infiltrated the shock has been pushed out.

Ensure the shock absorber is mounted in the correct direction - the larger diameter of the shock absorber body is mounted into the top bracket, and the shock absorber should be angled towards the rear of the trailer.

Do not mount the shock absorbers at an angle more than 30 degrees.

