



SPRING PLATE FITTING INSTRUCTIONS

Our adjustable spring plates are designed to give vertical adjustment on IRS equipped 50-67 buses. Adjustment is made by setting and locking the grub screw at a suitable position. This allows vehicles to be levelled side to side without constant dismantling of the entire system in order to get the required height. Adjustment is limited to the amount the screw can safely be raised and lowered. However, this amount is in turn, set by the angle and spline you fit the spring plate on at. This means you can fit the spring plate on at one position and get adjustment up and down but if you installed it on the next spline up or down, you would get another range of adjustments. This makes the system infinitely adjustable. The question is what spline to set the plates on to start with? Read on and you will see that even if you get it wrong, adjustment can be made without dismantling the entire system.

We recommend for vehicles needing approx a 3-4" drop, the spring plate should have a gap at A of approx 12mm. The entire rear IRS should be assembled and the vehicle set on the ground with its full weight of engine etc to give a true ride height. The vehicle should be "settled" by pushing and bouncing the rear end in order to get the full settled weight onto the torsion bars. (Shock absorbers should not be fitted at this point)

With the vehicle settled, adjustments can be made up or down with the grub screw. The screw should not be wound upwards more than level with the bottom of the block. Likewise, do not lower the screw lower than 1mm above the lock washer.

If after adjustment you can not get the bus to sit at the height you require, DO NOT PANIC. YOU DO NOT HAVE TO DISMANTLE THE ENTIRE REAR SYSTEM.

It is possible to reposition the spring plate onto the next appropriate spline without removing it from the hub assembly. Jack the vehicle and place the chassis on axle stands. Remove rear wheels. Simply take off the spring plate cover E, remove the outer rubber bush. Mark any spline on the torsion bar and the corresponding spline on our spring plate with paint or by dot punching.

Now gently remove the spring plates shorter outer section from the torsion bar. Rotate it **up** one spline to **drop** the vehicle another 3" or rotate it **down** one spline to **raise** the vehicle 3". Reassemble and get the vehicle back onto the ground. Resettle once more. Once settled, re adjust the grub screws accordingly.

