

# *Airmatic Lowering Links*

## **OR042 - Mercedes S Class (W220) Airmatic Original Lowering Kit**

**\*\*Make sure your car is on a flat surface while installing your linkages and remove the key from ignition and no power is on remembering not leave your keys in the car.\*\***

**PLEASE NOTE THAT A MERCEDES S CLASS WITH AIRMATIC SUSPENSION USES THREE LINKAGES. THE FRONT LINKAGES ARE LOCATED AT THE TOP, REAR OF THE WHEEL ARCH WHEREBY THE REAR LINKAGE IS LOCATED NEAR THE REAR DIFFERENTIAL.**

**PLEASE NOTE THAT A MERCEDES S CLASS WITH ABC SUSPENSION USES FOUR LINKAGES. THE FRONT LINKAGES ARE LOCATED AT THE TOP, REAR OF THE WHEEL ARCH WHEREBY THE REAR LINKAGES ARE LOCATED BEHIND THE REAR WHEEL HUB.**

Tools Required –Adjustable spanner and large flat ended screwdriver.

**\*\*We recommend adding a small amount of grease to each ball joint whilst installing the kit\*\***

### **Front:**

1. Select the highest suspension setting and jack the vehicle up by a few inches to locate the ride height sensor which is under the wheel arch as per the picture below.
2. Remove the standard linkage by using an adjustable spanner or a screwdriver at the top of the linkage closest to the bracket. Twist it gently so that it pops off the ball. Once one end of the standard linkage is off the other comes off easily by simply bending it backwards. (\*\*BE GENTLE, DO NOT DAMAGE OR SNAP THE SENSORS ARM!\*\*)
3. Fit a Rubber Grommet to each ball to ensure the ball and ball joint are protected from the elements.
4. Install the adjustable linkages by firstly removing the safety retaining clips and then firmly pushing the ball joints of the linkage onto the ball studs on the bracket and sensors arm. The vehicle will lower by approximately 28mm for every 5mm longer you make the adjustable linkages than that of the standard linkages. We suggest making the link no more than 10mm longer than the OEM link.



**Rear:**

1. Select the highest suspension setting and jack up the rear of the vehicle locate the ride height sensor as per the picture below. They are connected to the Lower Control Arm. It will be easier to do if you remove the wheel but this is not 100% necessary as you can crawl underneath the vehicle.
2. Remove the standard linkages by using an adjustable spanner or a screwdriver closest to the bracket as per the front linkages. Twist it gently so that it pops off the ball. Once one end of the standard linkage is off the other comes off easily by simply bending it backwards. (\*\*BE GENTLE, DO NOT DAMAGE OR SNAP THE SENSORS ARM!\*\*)
3. Fit a Rubber Grommet to each ball to ensure the ball and ball joint are protected from the elements.
4. Install the adjustable linkage by firstly removing the safety retaining clips and then firmly pushing the ball joints of the linkage onto the ball studs on the bracket and sensors arm. The vehicle will lower by approximately 28mm for every 5mm shorter you make the adjustable linkages than that of the standard linkages. We suggest making the link 10mm shorter than the OEM linkage.

**Initializing the adjusted suspension:**

1. Start the vehicle whilst on a level surface and select the highest suspension setting (Access mode or similar) and leave the engine running to allow the cars suspension computer to settle to the new adjustments and compression to build in the air system.
2. After leaving the car for a few minutes you can now select the sport suspension mode which will lower the vehicle.
3. Check the vehicle is at the desired height in the suspension setting you have selected but ensure that the suspension is not so low that it may cause the wheels to rub on the wheel arches as this may cause damage to your tyre or wheel arch. It may take a couple attempts to get the linkage lengths correct to obtain the exact ride height of your liking.

**Returning the vehicle to standard:**

To return the car back to standard simply repeat the steps using the original linkages. As the standard joints harden with age you may find them hard to put back on. If this is the case apply some lubricant (WD40 or similar silicon based product) to the ends and squeeze them on with pliers.

Thank you for your purchase. If you need any help please do not hesitate to contact us at anytime.