

**STANCEPARTS**



# INSTRUCTION MANUAL

**YOU ARE EXPECTED TO ASSEMBLE AND USE  
THE SYSTEM ACCORDING TO THIS MANUAL**

# 1. ROTATING AND NON-ROTATING COILOVERS

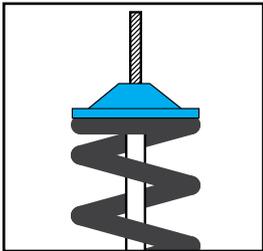
There are basically two types of suspension systems:

- MacPherson, the coilovers rotate when steering.
- Double wishbone, the coilovers don't rotate when steering.

The non-rotating coilovers also applies for rear coilovers.

## 1a. ROTATING

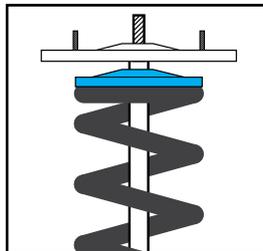
MacPherson front coilovers



### 1a. Rubber topmount

You start with the coilover as shown above.

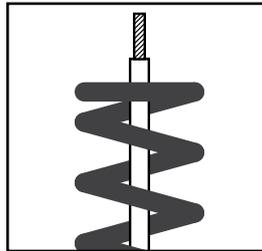
\* If you have a separate top bearing and spring perch, the air cup can replace the spring perch. (blue part)



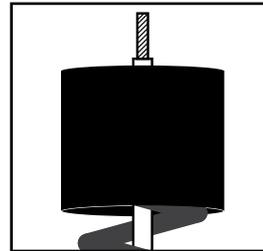
### 1b. Bolt-on topmount

You start with the coilover as shown above.

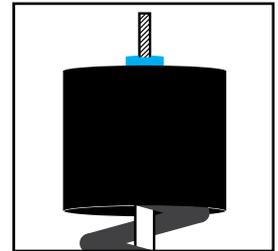
\* If you have a separate top bearing and spring perch, the air cup can replace the spring perch. (blue part)



2. Make sure that the shaft is not damaged and cleanse it from dirt. If present, remove the retaining clip of the shaft. Place it back on top of the air cup.



3. Slide the aircup carefully over the shaft and make sure the seals are not in contact with the threads. Make sure the spring fits well into the air cup.



4. If needed, place a number of included spacers on top of the air cup and reassemble in reverse order. See step 5: clearance for more information.

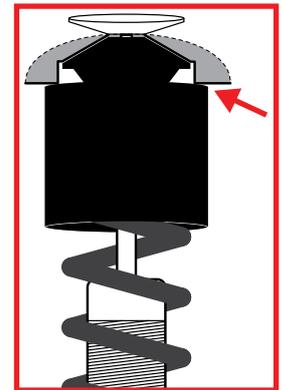
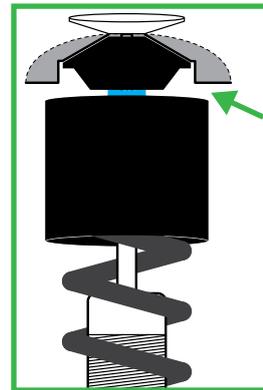
## CLEARANCE

Applies to rotating coilovers only.

You need to ensure that the air cups can't come in contact with the top mount or with the chassis in any way. If they are, then the air cups will spin and will damaging the pressure lines and air cups.

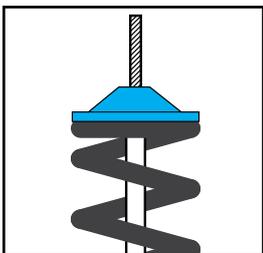
Make sure there is enough clearance between the air cups and the chassis. Check the clearance when the car is on the ground, not on a jack.

Regularly check if the air cups don't twist, if they do then the clearance is too small.



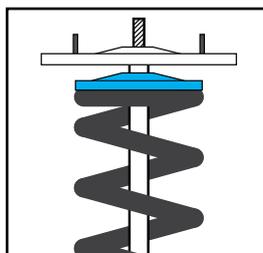
## 1b. NON-ROTATING

Double wishbone and rear coilovers



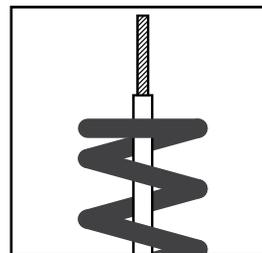
### 1a. Rubber topmount

You start with the coilover as shown above, the air cup will replace the blue colored part in the picture.

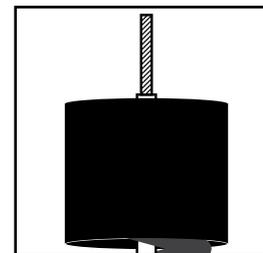


### 1b. Bolt-on topmount

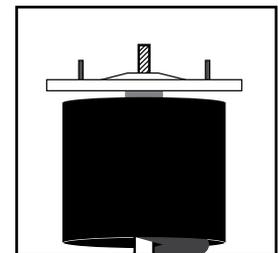
You start with the coilover as shown above. \* If you have a separate top mount and spring perch, the air cup can replace the spring perch.



2. Make sure that the shaft is not damaged and cleanse it from dirt. If present, remove the retaining clip of the shaft. Place it back on top of the air cup.



3. Slide the aircup carefully over the shaft and make sure the seals are not in contact with the threads. Make sure the spring fits well into the air cup.



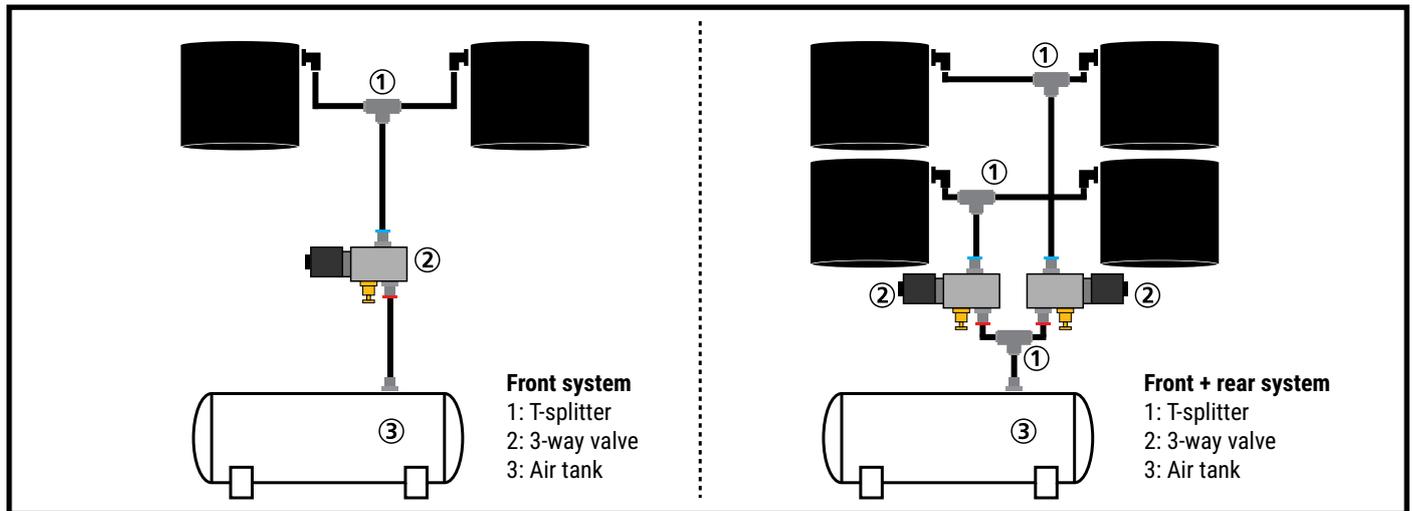
4. Make sure the spring fits well into the air cup and reassemble in reverse order.

\* If the rubber topmount isn't flat on the bottom, fill this space with a washer or a spacer.

## 2. PRELOAD

If you have coilovers without helper springs, you have to minimize your preload to let the air cups lift the full 50mm.

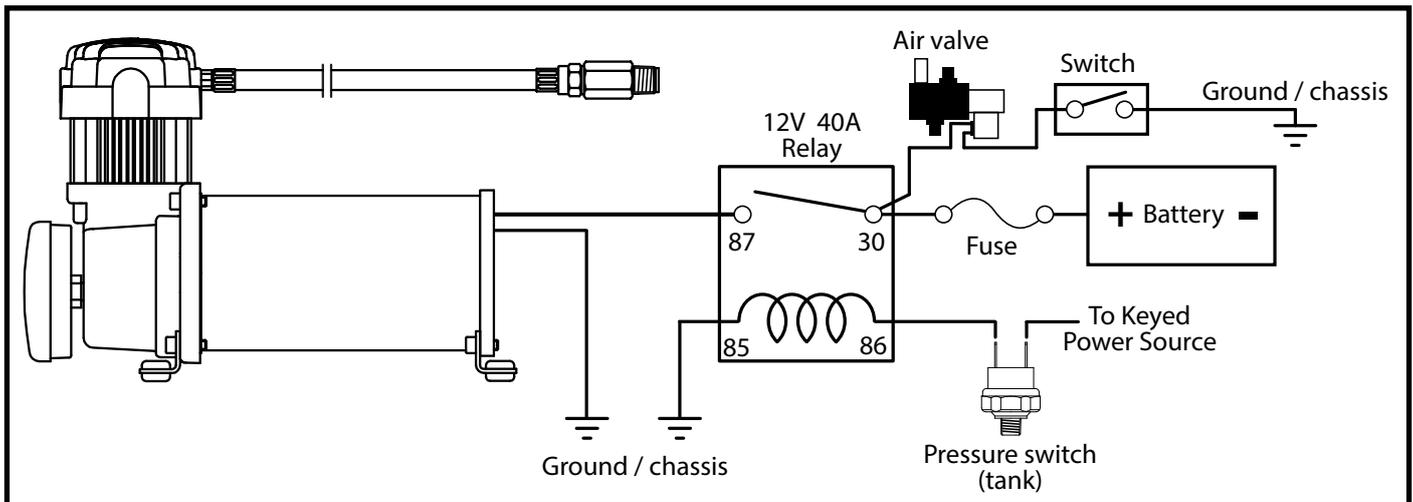
## 3. ASSEMBLY SCHEME



Cut the lines straight and make sure they are firmly connected into the fittings. This prevents that they come off or will leak.

**Attention!** If you don't use the VIAIR compressor kit, make sure that there is a safety valve of 12 bar/175psi in the system.

## 4. ELECTRIC SCHEME



## 5. SPEED CONTROL

The speed of lifting and dropping can be controlled by adjusting the 2 fittings on the valve.

## INSTRUCTIONS

**You must put the system into service as described below.**

- The system is only pressurized if you want to pass an obstacle. So normally you will drive without pressure in the air cups.
- The system should only be used at speeds below 60 kmh / 40mph and you have to pass obstacles with appropriate speed.
- Only use the system when it is mounted on the car, keep your fingers and hands away from the air cups when it's in use.
- The system should only be used in two modes: low (no pressure) and high (6 - 10 bar / 90 - 150 psi).

## MAINTENANCE

### Air cups

Wash the air cups monthly with water (low pressure) so that dirt does not accumulate. Only use water, with the use of soap or other cleaning agents it's possible that the lubrication in the air cup washes away.

### Compressor and tank

1. Check the air filter every 3 to 6 months and replace it if necessary.
2. Drain the tank every 2 to 3 months by turning the tap open. Make sure there is a minimum pressure in the tank (as described in the VIAIR Manual).

## WARRANTY

2 year warranty on the air cups.

1 year warranty on the compressor setup, covered by the manufacturer: VIAIR.

### Warranty terms:

- Proof of purchase.
- Properly used according to instructions.
- Proper installation according to this manual.

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