



CONTROL IS  
EVERYTHING

# MSS Install Guide

Supplied for the BMW 1-4 Series



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## INTRODUCTION

This short guide is intended for use with MSS Kit for the **BMW 1-4 Series**

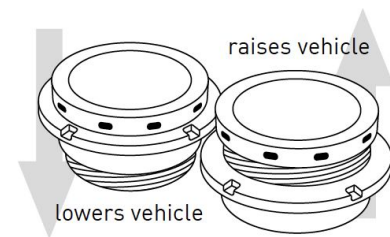
## PRE-INSTALL STEPS

Refer to pages 3 and 4 of the latest version of the 'MSS INFO for Installer' or email [support@mss.company](mailto:support@mss.company) for the latest copy, to measure the current ride height.

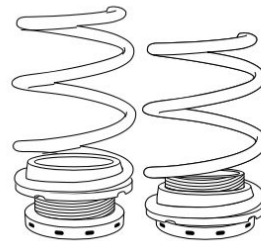
**BMW 1-2 Series Assembly Video | 1-4 Series Assembly Video**

## FRONT AXLE INSTALL PARTS LIST

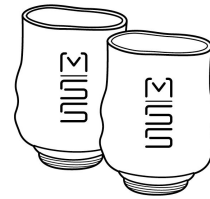
Before you start installing your new MSS Kit, check if all parts listed below have been supplied:



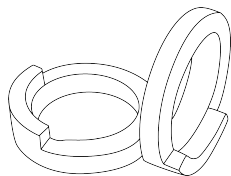
**2x Large adjusters** - these are the larger of the two sets



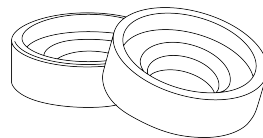
**2x Large diameter MSS orange springs** - these fit the large adjusters



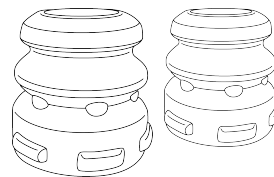
**2x OPTIONAL: Large protective sleeves** - these fit around the large adjusters



**2x MSS PU seats**



**2x CMSS bump caps**



**2x MSS bump stops**



## FRONT AXLE INSTALL PROCEDURE

This is best done with struts removed from the vehicle. Refer to the manufacturer's workshop manual for steps on how to safely remove the struts from the vehicle, remove and refit the springs and on the correct torque settings.

**Difficulty Level:** High

**Estimated Time:** 90 to 120 minutes per side, assuming the bolts are not seized.

**Installing your new MSS Kit is best undertaken by an experienced BMW workshop/engineer.**

1. Remove the OE springs. These will be replaced by the MSS front system supplied.
2. Remove the OE rubber dust boots. Keep these as they will be used.
3. Remove the OE bump stop. This will be replaced with MSS supplied.
4. Remove the O.E bump cap (the protective plastic around top of the shock absorber) this is replaced with MSS supplied.
5. Remove the bottom O.E rubber spring mount and replace with black MSS PU seat.
6. Sit the adjuster on the PU seat
7. OPTIONAL: Fit the MSS protective sleeves over the adjuster and bearing for dust protection.
8. Fit the grounded face of the MSS large spring flush to the adjuster seat and keep together.
9. Now fit the protective rubber boot over the strut shaft to protect it from debris, insert MSS supplied bumpstop.
10. Fit the camberplate.
11. Use a spring compressor to reduce spring height and help secure the arrangement.
12. Tighten to the correct torque with appropriate tools used to remove the camberplate. Set the adjuster to the desired position; you can always re-adjust as required.





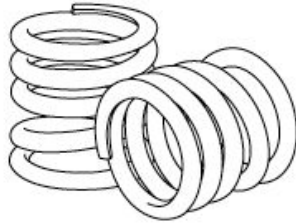
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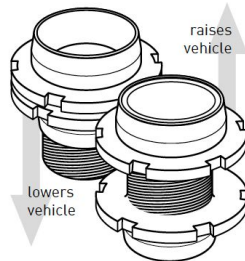
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## REAR AXLE INSTALL PARTS LIST

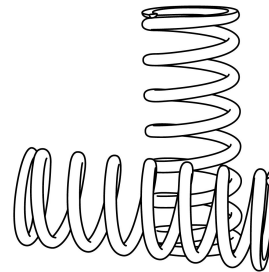
Before you start installing your new MSS Kit, check if all parts listed below have been supplied



**2x Black MSS Springs** -  
these are common parts used for  
almost all our products



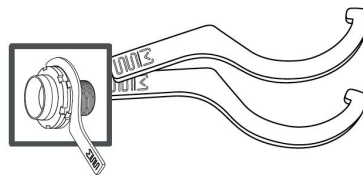
**2 x Combined adjusters** -  
to couple the black and orange  
springs together and adjust  
height



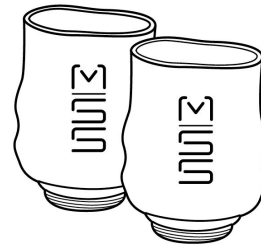
**2x Small diameter MSS  
orange springs**



**2x MSS supplied flat  
rubber slip mats** -  
to eliminate resonant road noise  
travelling through the system



**Adjuster spanners** -  
for both front and rear adjusters



**2x OPTIONAL:  
Small protective sleeves** -  
these fit around the combined  
adjusters



## REAR AXLE INSTALL PROCEDURE

For the rear stacked arrangement, refer to the latest version of the 'MSS INFO for Installer' guide or email [support@mss.company](mailto:support@mss.company) for the latest copy.

**Difficulty level:** Medium

**Estimated Time:** 30 to 45 minutes per side, assuming the bolts are not ceased.

**Installing your new MSS Kit is best undertaken by an experienced BMW workshop/engineer.**

1. Remove the upper OE rubber spring seat and replace it with the MSS rubber slip mat. [only applicable for 1 & 2 series]
2. Remove the lower OE seats. These are not required and can be kept in a safe place. [only applicable for 1 & 2 series]
3. Couple the black and orange springs with our patent-pending middle located rear adjuster. Ensure the orange spring at the top within the mounting cup is centralised.
4. OPTIONAL: Fit the MSS protective sleeves over the adjuster for dust protection.
5. Fit the MSS stacked arrangement back in place of the OE single form spring. Our stacked springs are a direct replacement for the factory single form springs.
6. Tighten the suspension parts that had been removed. Refer to the manufacturer's workshop manual for steps on how to safely remove the struts from the vehicle, remove and refit the springs and on the correct torque settings.
7. Set the ride height to sit 5mm higher than the fronts when measured from fender edge to wheel hub centre.

**Please be aware that this is a MUST DO.**

## POST INSTALL STEPS

Complete a 1-mile journey before setting the ride height and 4-wheel alignment. Refer to pages 3 and 4 of the latest version of the 'MSS INFO for Installer' guide for assistance on how to measure ride height.

**NOTE:** The rear axle ride height should be set to at least 5mm higher than the front axle ride height when measured as per page 3 of the latest version of the 'MSS INFO for Installer' guide. This is a KEY step.



# Triple Engineered Suspension for Ultimate Performance, Comfort & Safety

**MSS Support Team**

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*(select appropriate option when prompted)*

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