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# MSS Install Guide

Supplied for the BMW X5 (G05)





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## Introduction

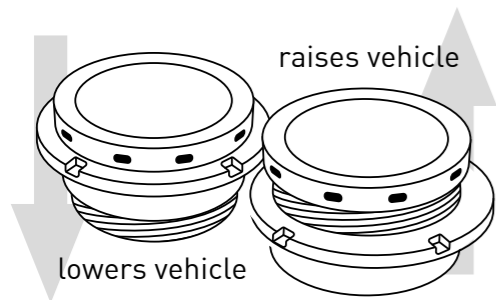
This short guide is intended for use with MSS for BMW X5 (GO5).

## Pre-install steps

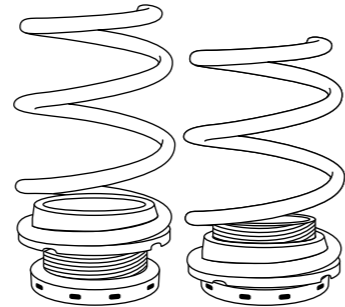
Refer to pages 3 and 4 of the latest version of the 'MSS INFO for Installer' or email [support@mss.company](mailto:support@mss.company) for the latest copy, to measure the current ride height.

## Front Axle Install Parts List

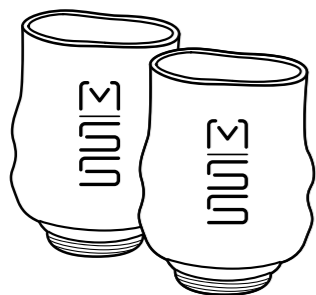
Before you start installing your new MSS spring kit, check all parts listed below have been supplied:



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



**2x** Large diameter MSS orange springs - 260-1  
 these fit the larger adjusters



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



**2** MSS supplied rubber centralising ring  
 to eliminate side ways movemnt through the system  
 x



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## 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 spring kit is best undertaken by an experienced BMW workshop/engineer.

1. Remove the OE springs, these will be replaced by the MSS front stacked system supplied.
2. Remove and retain the OE rubber dust boots, these will be re-used.
3. Remove and retain the OE bump stop, these will be re-used.
4. Remove but retain the plastic O.E dust cap.
5. Remove & split the lower O.E spring seat and retain the inner plastic
6. Now fit the MSS Rubber centraliser ring around the o.e plastic seat part so it sits on the base.
7. Place the MSS large adjuster on top of the lower shock absorber seat this will be centralised by the rubber ring.
8. Refit the O.E Plastic Dust cap
9. Refit O.E dust boots & bump stops.
10. Next, fit the large orange spring labeled MSS 260-1 on to the adjuster seat.
11. Make necessary changes to adjuster for desired ride height
12. Optional: Fit the MSS protective sleeves over the adjuster for dust protection
13. Use a spring compressor to reduce spring height and help secure the arrangement.
14. Tighten to the correct torque with appropriate tools used to remove the camberplate.

**NOTE** Best practice to set the adjuster to the desired height before installing on to vehicle



## POST INSTALL STEPS

Complete a 5-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. This is a KEY step.

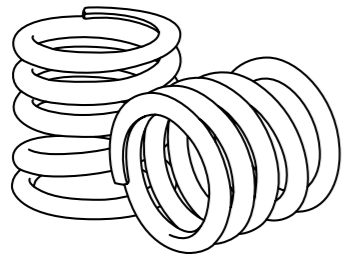
The rear axle ride height should be set to at least 15mm higher than the front axle ride height when measured as per page 3 of the latest version of the 'MSS INFO for Installer' guide. This is a KEY step



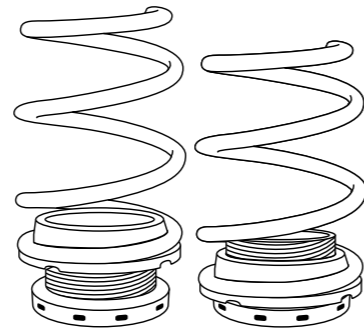
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## Rear Axle Install Parts List

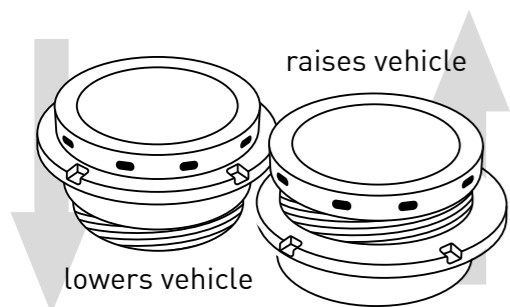
Before you start installing your new MSS Kit, check if all parts listed below have been supplied:



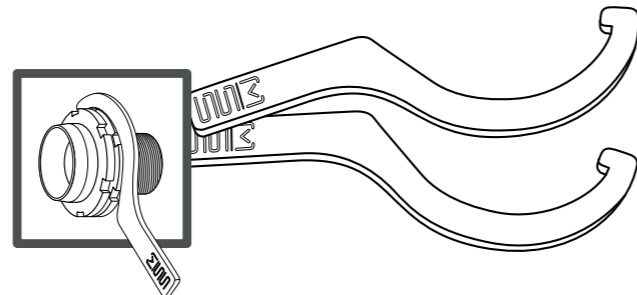
**2x** Black MSS springs -  
these are common parts used for almost all our products



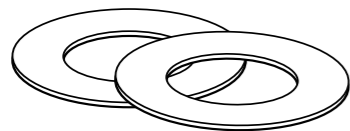
**2x** Large diameter MSS orange springs -245-1  
these fit the larger adjusters



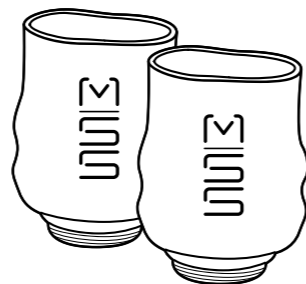
**2x** Large Single thread adjusters  
- these are the larger of the 2 sets



**2x** Adjuster spanners - for both front and rear adjusters



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



**2** OPTIONAL large protective sleeves -  
these fit around the rear adjusters



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## 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.

Please refer to workshop manual for steps on how to safely remove and refit the struts from the vehicle.

**Difficulty level:** Medium

**Estimated Time:** 30 to 45 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 Rear stacked system supplied
2. Remove and Retain the OE rubber dust boots these will be re-used.
3. Remove and Retain the OE bump stop. These will be re-used.
4. Remove but Retain the plastic O.E dust cap.
5. Remove the lower O.E spring mount and replace with MSS slip mat. (These are a tight fit please do not cut)
6. Now fit the MSS Black short spring on the base of the spring seat.
7. Place the MSS large single thread adjuster on top of the MSS black spring.
8. Refit the O.E Plastic Dust cap in the centre of the Adjuster.
9. Refit O.E dust boot & bump stop
10. Next fit large orange spring MSS 245-1 on to adjuster seat.
11. Make Necessary changes to adjuster for desired ride height (See Below)
12. Fit the MSS protective sleeves over the adjuster and for dust protection
13. Use a spring compressor to reduce spring height and help secure the arrangement.
14. Tighten to the correct torque with appropriate tools used to remove the camberplate.



## POST INSTALL STEPS

Complete a 5-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. This is a KEY step.

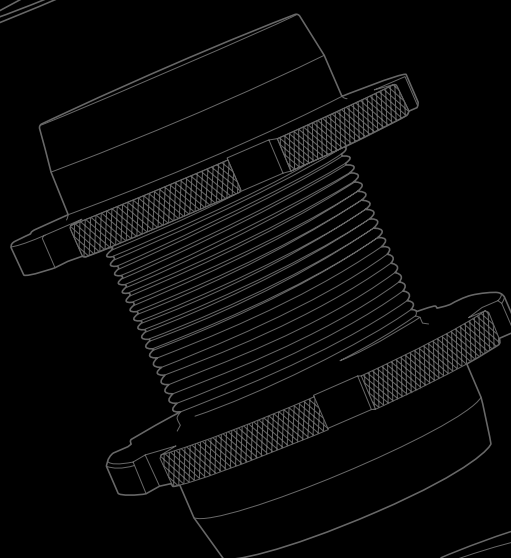
The rear axle ride height should be set to at least 15mm higher than the front axle ride height when measured as per page 3 of the latest version of the 'MSS INFO for Installer' guide. This is a KEY step

What if a part is missing? Please email [support@mss.company](mailto:support@mss.company). We will resolve the issue as quickly as we can.



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# Triple Engineered Suspension for Ultimate Performance, Comfort & Safety



**MSS Support Team**

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(select appropriate option when prompted)

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