

Sway Bar, Rear, BMW E9x M3

034Motorsport is proud to offer the ultimate rear sway bar upgrade package for the E9x BMW M3. The 034Motorsport Dynamic+ Sway Bar Kit features a rear sway bar made from high-quality spring steel for maximum rigidity and durability.

Designed to further reduce body roll and enhance steering feel and response. 034Motorsport's Dynamic+ Sway Bar Kit is the ideal upgrade for those in search of confidence-inspiring handling on the street and track.

Installation Spiciness Rating: SPICY



Installation of your 034Motorsport Rear Sway Bar Kit is a straightforward process that will take approximately four hours to complete.

Supplied Parts:

- (1x) 034Motorsport Rear Sway Bar
- (2x) 034Motorsport Rear Sway Bar Bushings
- (2x) 034Motorsport Sway Bar Brackets with Fittings
- (4x) M8 Bolts
- (4x) M8 Washers

About This Guide

This Install Guide documents the installation process on an E90 BMW 335D. There may be minor differences depending on specific vehicle, market, options, etc.

Getting Started

Confirm you have received all the parts included with your purchase by reading the complete guide, if there are missing components, please contact:

customerservice@034motorsport.com

Be very careful when dropping the subframe while the car is lifted. The balance of weight can shift and cause the rear end to tilt upward.

Tools Needed:

- T50 Torx
- T40 Torx
- T30 Torx
- T27 Torx+ (Security)
- E18 Socket
- E12 Socket
- 22mm Wrench
- 21mm Wrench
- 17mm Wrench
- 16mm Wrench
- 11mm Wrench
- 10mm Wrench
- 21mm Socket
- 18mm Socket
- 16mm Socket
- 13mm Socket
- 11mm Socket
- 10mm Socket
- 8mm Socket
- Torque Wrench
- Zerk-style Grease Gun
- Exhaust Hanger Pliers
- Pickle Fork
- Small Flathead Screwdriver
- Box Cutter
- (4x) Pole Jacks

Install Steps**Step 1**

Raise the vehicle securely on jack stands, or a lift, to gain access to the underside.

**Step 2**

Remove the rear wheels.



Step 3

Using a T27 Torx+ bit and 8mm socket, remove the hardware from the heat shield covering the downpipe/exhaust flanges.

**Step 4**

Using an 11mm socket, remove the hardware from the downpipe/exhaust flanges.

**Step 5**

Using a T50 Torx bit, remove the hardware from the chassis brace.

**Step 6**

Using a 22mm wrench, remove the O2 sensor from the exhaust.



Step 7

Using a T40 Torx bit, remove the hardware from the exhaust hanger bracket.

**Step 8**

Using a 10mm socket, remove the hardware from the rearmost exhaust hanger brackets. (Both sides)

**Step 9**

Using exhaust hanger pliers, remove the hangers from the exhaust, in front of the rear axles.



**Have a friend or pole jack in place before the next step.
The exhaust is coming down!**

Step 10

Using a 13mm socket, remove the hardware from the subframe mounted exhaust hanger brackets. (Both sides)



Step 11

Using a 10mm wrench, remove the hardware mounting the ride height sensor bracket to the subframe.

**Step 12**

Unplug the connector to the ride height sensor.

**Step 13**

Using a 16 and 17mm wrench, remove the hardware securing the end links to the sway bar.

**Step 14**

Using an E12 bit, remove the hardware from the lower shock mount.



Step 15

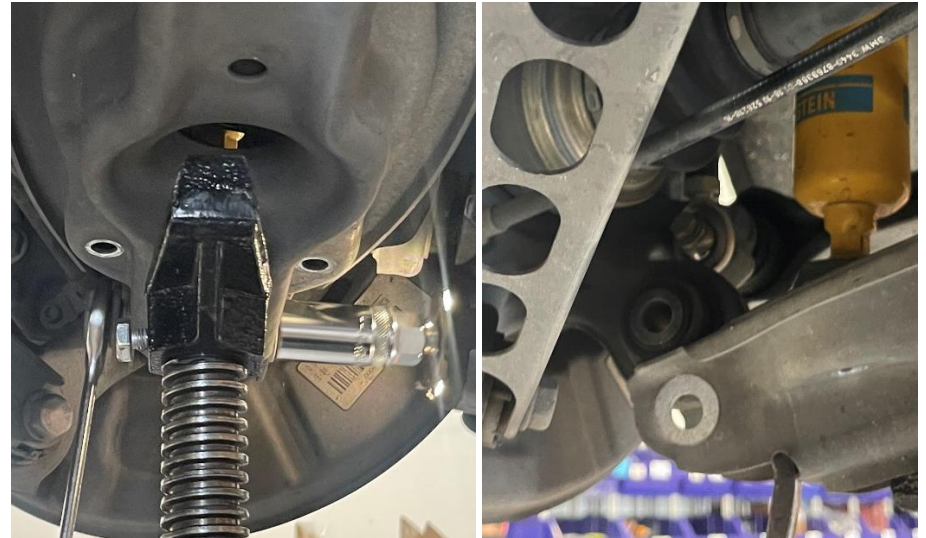
Take the rear brake lines off the hanger.

**Step 16**

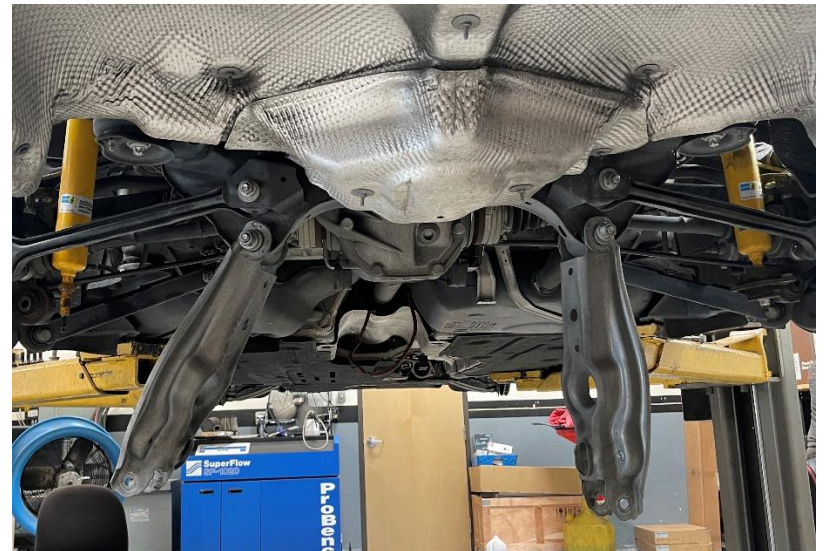
Using a 10mm socket, remove the hardware from the heat shield covering the driveshaft tunnel.

**Step 17**

Using a 21mm socket and wrench, remove the hardware securing the rear camber arm to the hub.

**Step 18**

Swing the camber arms downward and extract the springs.



Step 19

Using an 8mm socket, remove the hardware from the back of the rear fender liners.

**Step 20**

Tuck the loose portion of the fender liner behind the hub.

Step 21

Disconnect the ABS and collision sensors on both sides.

**Step 22**

Remove the harness clips from the subframe.

**Step 23**

Using an 11mm wrench to loosen the nut for the brake hardlines.



Step 24

Cover/plug the brake hardline ends.

**Step 25**

Using a T30 Torx bit, a pickle fork, and a small screwdriver, remove the hardware securing the rear mud flaps.

**Step 26**

Fold the mud flap out of the way to access the subframe bracket hardware.

**Step 27**

Using a 16mm socket, remove the bolts from the subframe bracket.



Step 28

Using a 10mm and 13mm socket, remove the hardware from the primary exhaust heat shield.

**Step 29**

Using an 8mm socket, remove the hardware for the dust shields. Not all hardware needs to be removed, just the ones shared with the heat shield.

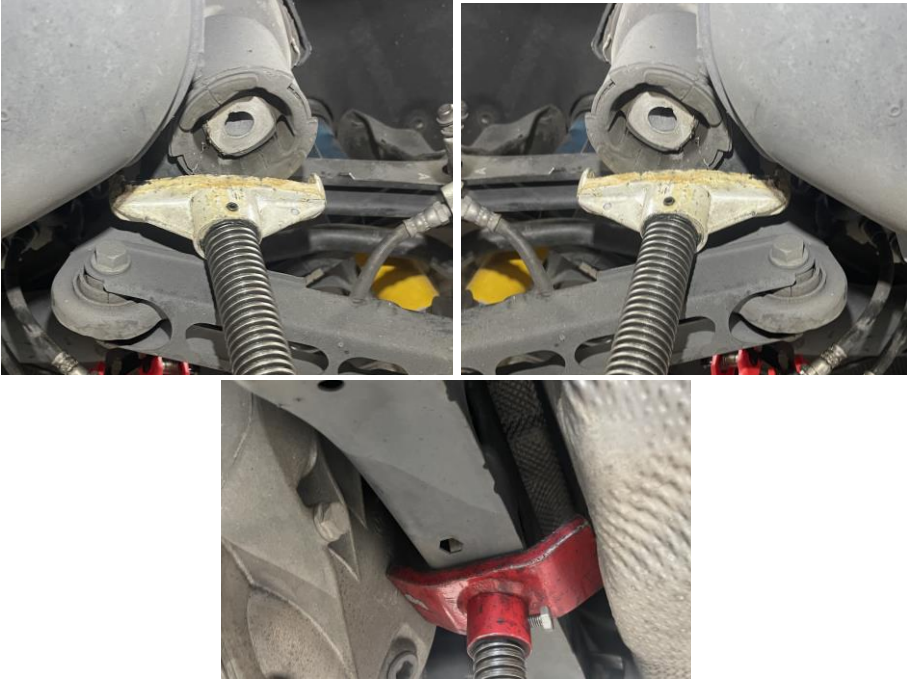
**Step 30**

Remove the primary heat shield to access the driveshaft.



Step 31

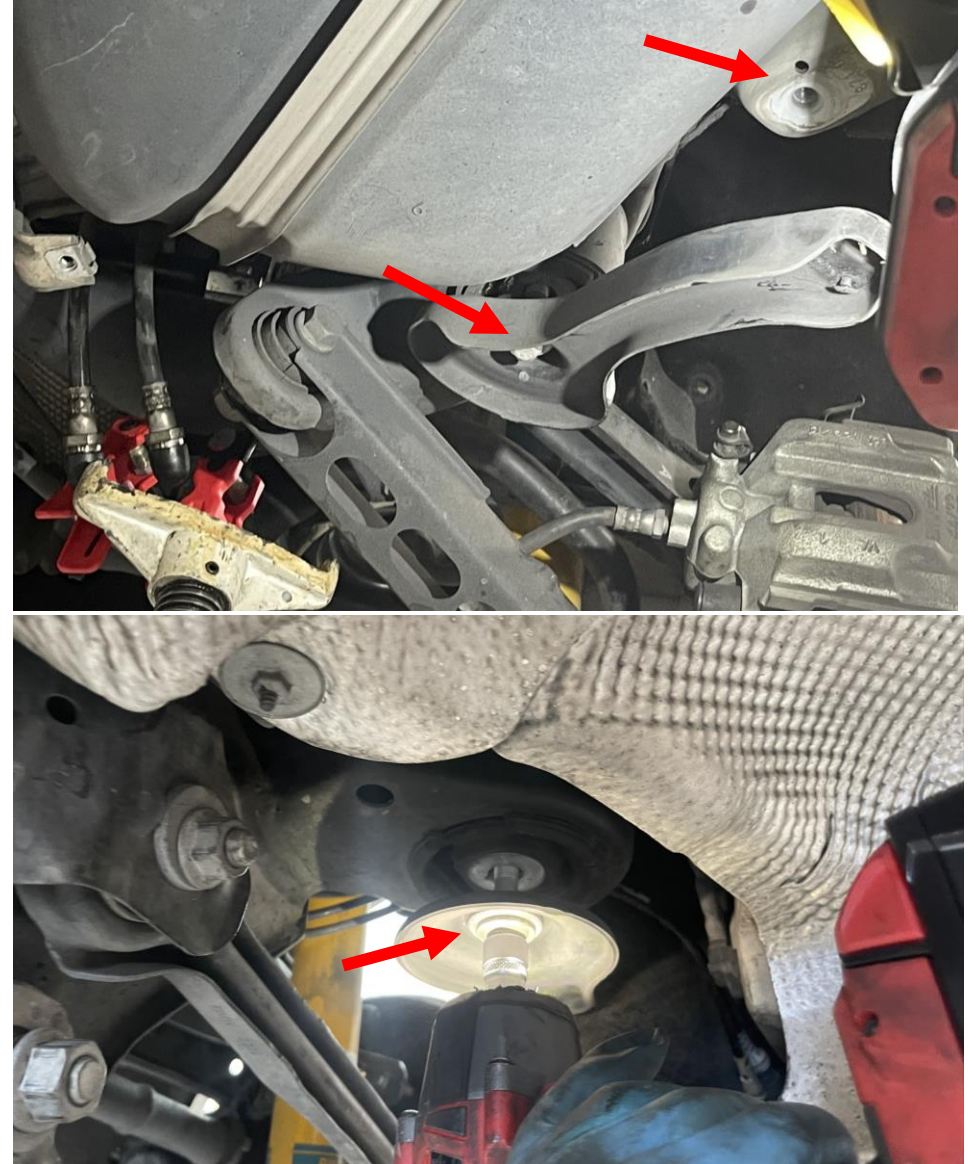
Use 3 pole jacks to support the rear subframe. One on both sides and one in the center.

**Step 32**

Place another pole jack under the front subframe to balance the weight of the car.

**Step 33**

Using an E18 bit, remove the hardware from the rear subframe support brackets, forward and rear.

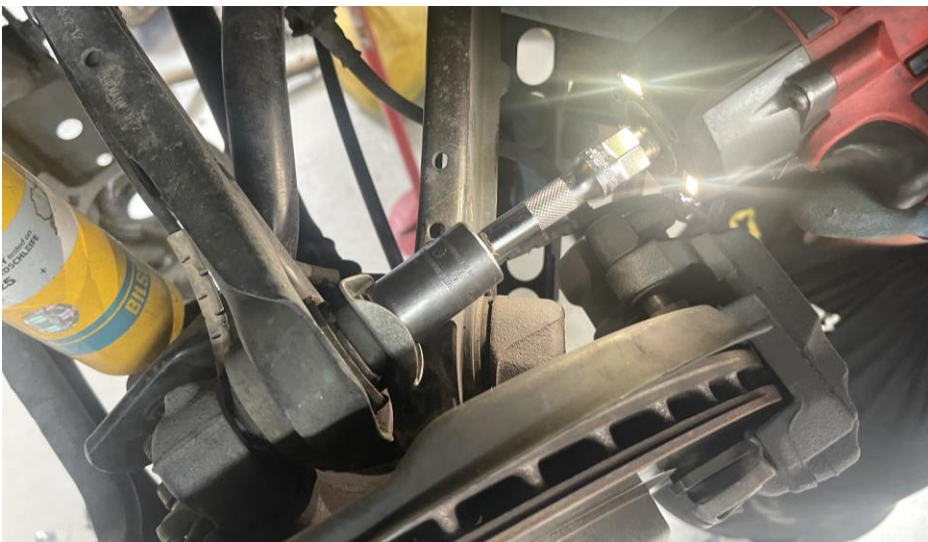


Step 34

Carefully lower the rear subframe a few inches.

**Step 35**

Using an 18mm socket, remove the hardware from the rear control arm at the hub.

**Step 36**

Carefully cut the zip-ties securing the brake lines to the control arm.

**Step 37**

Using a 13mm socket, remove the hardware for the rear sway bar brackets (Our car is sporting a prototype bar; your hardware may vary).



Step 38

Remove the rear sway bar. This will require twisting, wiggling, and some cursing, but you'll get it!

**Step 39**

Apply a small amount of grease to the sway bar bushings.

Step 40

Install the sway bar bushings on the outside of the collars.

**Step 41**

Install the 034 rear sway bar. More twisting and wiggling.

**Step 42**

Using a 13mm socket, install the sway bar bracket. Make sure you use the spacer plate under the bracket and point the Zerk grease fitting towards the front of the car.



Step 43

Torque the sway bar bracket hardware to **21Nm**.



Step 44

Using a 16 and 17mm wrench, attach the rear end links to the sway bar.



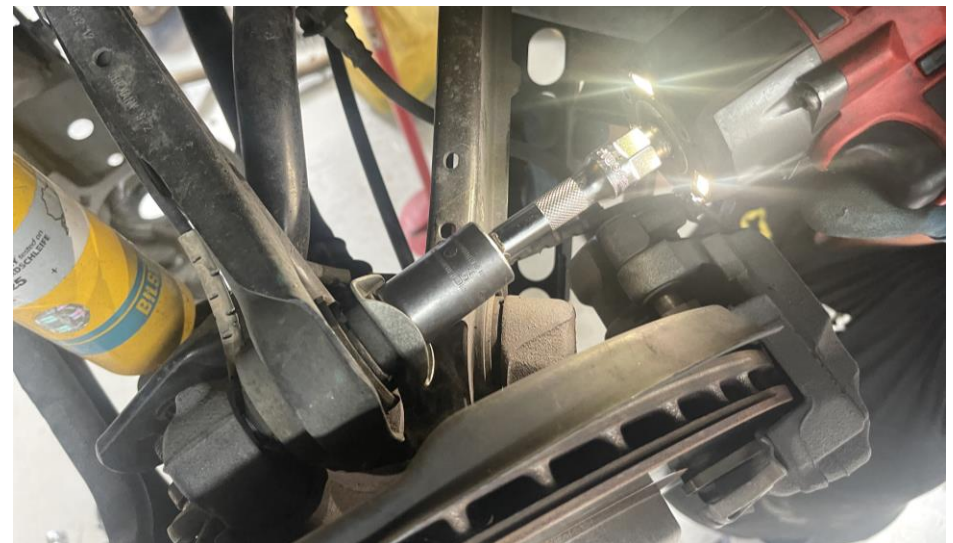
Step 45

Secure the brake lines to the control arm. Zip-ties not included.



Step 46

Using an 18mm socket, reinstall the hardware for the rear control arm at the hub.



Step 47

Lift the rear subframe back into place.



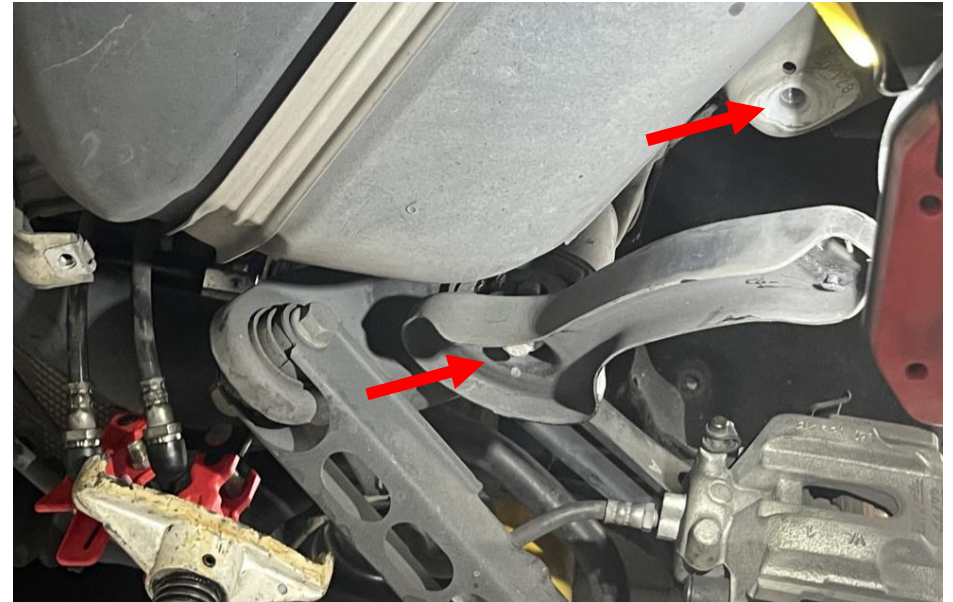
Step 48

Reinstall the ride height sensor.



Step 49

Using an E18 bit, reinstall the hardware for the rear subframe support brackets, forward and rear.



Step 50

Remove the 3 pole jacks from the rear of the car and the single pole jack at the front of the car.



Step 51

Using an 8mm, 10mm and 13mm socket, reinstall all the heat shields.

**Step 52**

Using a 16mm socket, reinstall the bolts for the subframe bracket.

**Step 53**

Using a T30 Torx bit, reinstall the hardware securing the rear mud flaps.



Step 54

Remove the cover/plug from the brake hardline ends.

**Step 55**

Using an 11mm wrench to tighten the nut for the brake hardlines.

**Step 56**

Reinstall the harness clips from the subframe.

**Step 57**

Connect the ABS and collision sensors on both sides.

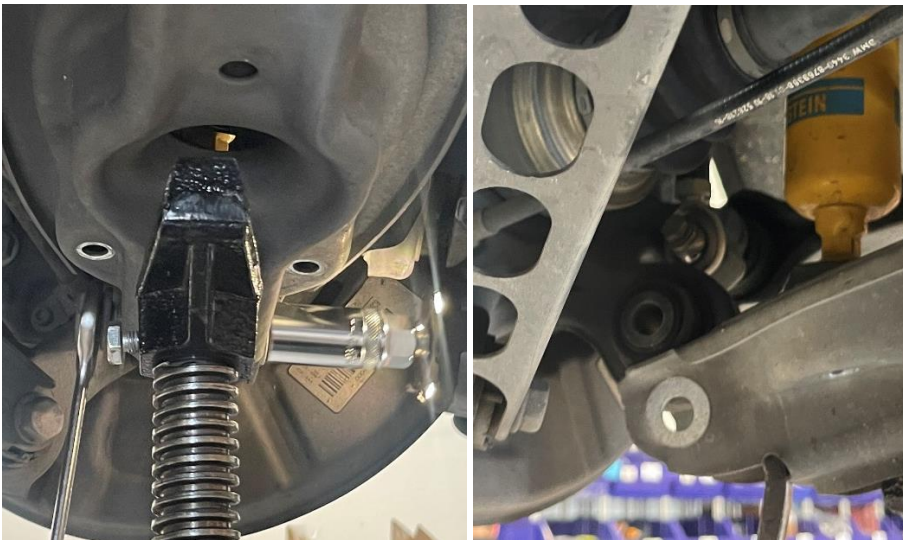


Step 58

Using an 8mm socket, reinstall the hardware for the rear fender liners.

**Step 59**

Reinstall the rear springs. Using a 21mm socket and wrench, reinstall the hardware securing the rear camber arm to the hub.

**Step 60**

Using an E12 bit, reinstall the hardware for the lower shock mount.

**Step 61**

Using a 10mm socket, reinstall the hardware from the heat shield covering the driveshaft tunnel.



Step 62

Reinstall the rear brake lines on the hanger.

**Step 63**

Using a 10mm wrench, reinstall the hardware mounting the ride height sensor bracket to the subframe.

**Step 64**

Put the exhaust system back into place. Using a 13mm socket, reinstall the hardware for the subframe mounted exhaust hanger brackets. (Both sides)

**Step 65**

Reinstall the exhaust on the hangers in front of the rear axles.

Step 66

Using a 10mm socket, remove the hardware from the rearmost exhaust hanger brackets. (Both sides)



Step 67

Using a T40 Torx bit, reinstall the hardware for the exhaust hanger bracket.

**Step 68**

Using a 22mm wrench, reinstall the O2 sensor to the exhaust.

**Step 69**

Using a T50 Torx bit, reinstall the hardware for the chassis brace.

**Step 70**

Using an 11mm socket, remove the hardware from the downpipe/exhaust flanges.



Step 71

Using a T27 Torx+ bit and 8mm socket, reinstall the hardware for the heat shield covering the downpipe/exhaust.



Step 72

Reinstall the rear wheels.



Step 73

Lower the car and you are done! Enjoy the added performance.

