

[034Motorsport – BMW Density Line Control Arm Kit](#)

**034 MOTOR SPORT**

034Motorsport's BMW Density Line Control Arm kit replaces your vehicle's aging, worn arms with these performance-engineered units to restore handling precision beyond factory levels. Expanding on the M3 style design, these control arms enhance the driving experience for all E9X models, Non-M or M!

Installation Spiciness Rating



(Medium)

Installation of the 034Motorsport BMW Density Line Control Arm Kit is a straightforward process that will take approximately 60 minutes to complete.

Supplied Parts:

- 034Motorsport BMW Density Line Control Arms
- Headlight leveling sensor rod
- All necessary hardware

Tools Needed:

- Two hands, ideally with both thumbs
- Lug breaker
- 8mm socket
- 10mm socket
- 18mm socket and/or wrench
- 21mm socket and/or wrench
- 22mm socket and/or wrench
- T40 Torx bit
- Medium-sized prybar

About This Guide

This Install Guide documents the installation process of 034Motorsport's BMW Density Line Control Arm Kit on a 2011 BMW 328d. There may be other minor differences with your vehicle depending on specific vehicle, market, options, etc.

Getting Started

- Ensure you have all parts and tools required for installation by reading the complete Install Guide.

Step 1

Raise car off the ground, either with a lift, or a jack and jack stands. When using a jack, **ALWAYS** use jack stands. Being crushed by your car will put a real damper on your day.

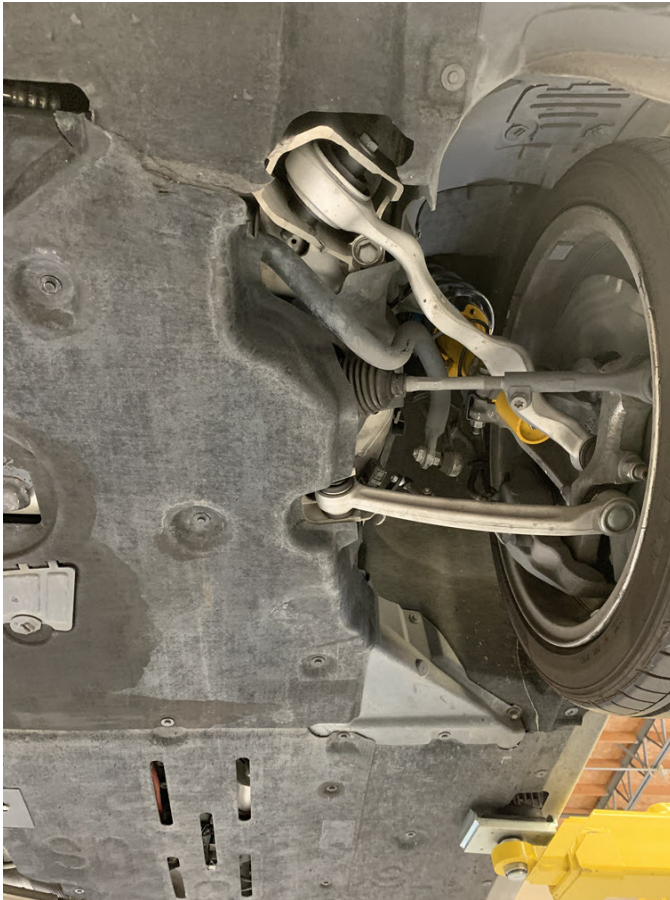
Step 2

Starting on the left side, remove the front wheel:



Step 3

Using an 8mm socket, remove the hardware for the engine splash shield and set shield aside.



Step 3 cont.

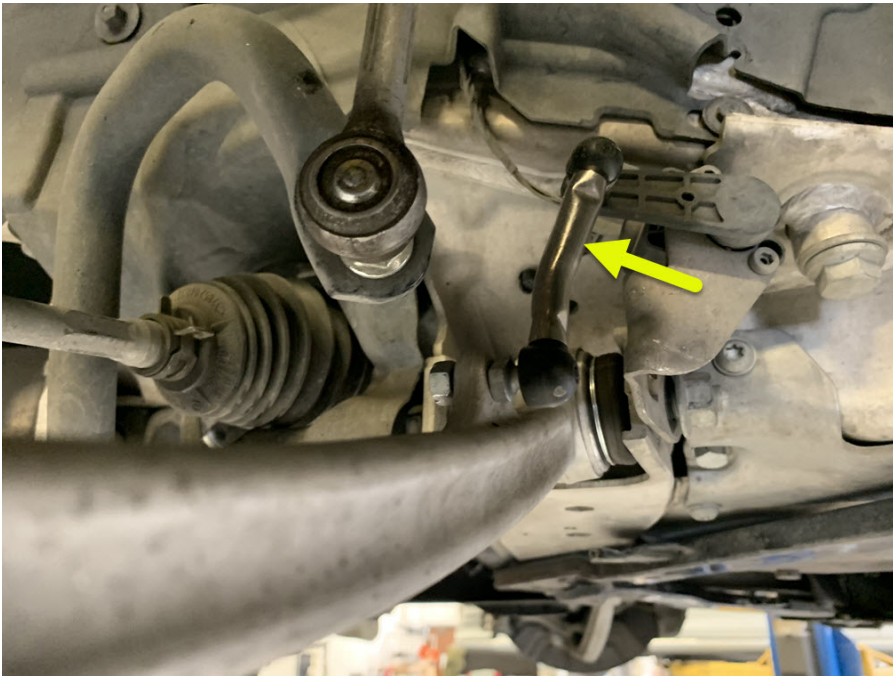


Step 4

For rearmost (straight) arm;

Remove the headlight leveling sensor rod, and disconnect the electrical plug.

Note: For non-M cars, the sensor rod mounting clip can stay attached to the control arm.



Step 5

Remove the 21mm nut from the subframe mounted bushing. Use 18mm socket on bolt head to prevent spinning.



Step 6

Remove 21mm ball joint nut from steering knuckle. Use T40 Torx bit to prevent ball joint from spinning.



Step 7

Remove the straight control arm from steering knuckle (if necessary, using a pickle fork) and from the subframe using a prybar.



Step 8

Reverse the removal process to install the new Density Line control arm.

Note: Arms are marked R (right, and L (left).

Insert the bushing end into subframe first, ball joint end last, tightening the hardware only hand tight.

Install the new headlight leveling sensor rod provided in the kit, and reconnect the electrical plug disconnected in Step 4.



Step 9

For the forward (curved) control arm;

Using 18mm socket, remove the bolt from the captured nut on the subframe mounted bushing.



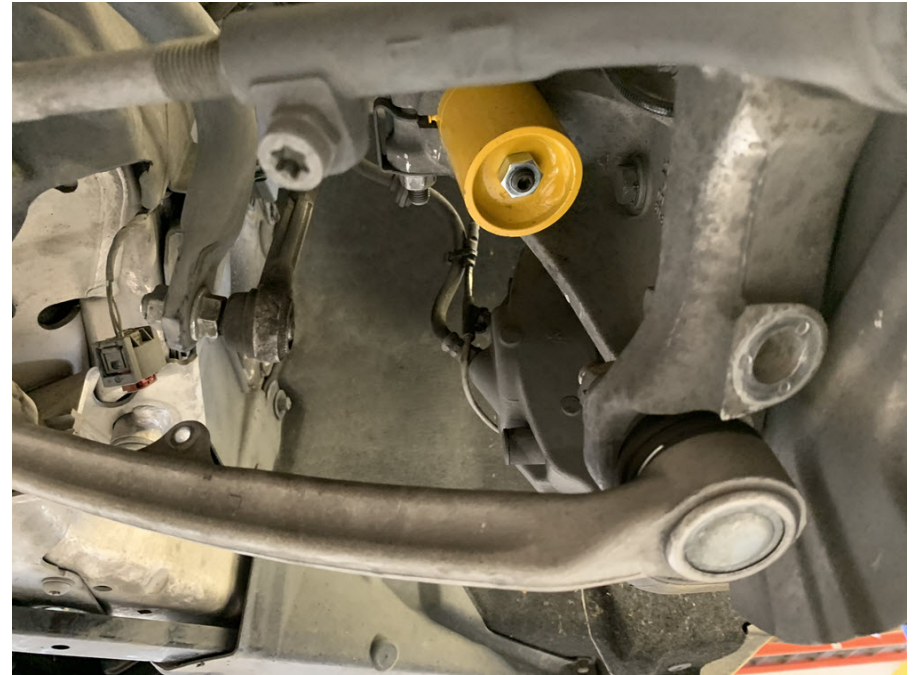
Step 10

Remove the 21mm ball joint nut from the steering knuckle.
Use a T40 Torx bit to prevent the ball joint shaft from spinning.



Step 11

Remove the curved control arm from the steering knuckle (if necessary, using a pickle fork), and from the subframe using a prybar.



Step 12

Reverse the removal process to install the new Density Line forward control arm. Insert the bushing end into subframe first, the ball joint end last, tightening the hardware only hand tight.



Step 13

Repeat process for right side.

Note: There is no headlight leveling sensor on this side.

Step 14

Reinstall the engine splash shield.

Step 15

Remount front wheels and lower car to pre-load the suspension, then tighten all hardware to factory torque requirements.

Step 16

We highly recommend having an alignment done.

Step 17

That's it, you're done! Give yourself a pat on the back for a job well done!