

**BMW Density Line Front Control Arm Kit**

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 Density Line Control Arms
- (4x) M10 Nuts
- Headlight leveling sensor rod
- (2x) M6 Serrated Nuts

**Tools Needed:**

- 22mm socket and/or wrench
- 21mm socket and/or wrench
- 18mm socket and/or wrench
- 10mm socket
- 8mm socket
- T40 Torx bit
- Lug breaker
- Medium-sized prybar

**About This Guide**

This Install Guide documents the installation process on a 2011 BMW 328d. 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](mailto:customerservice@034motorsport.com)

### Install Steps

#### **Step 1**

Lift the car to access the front suspension.

#### **Step 2**

Remove the front wheels.



#### **Step 3**

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



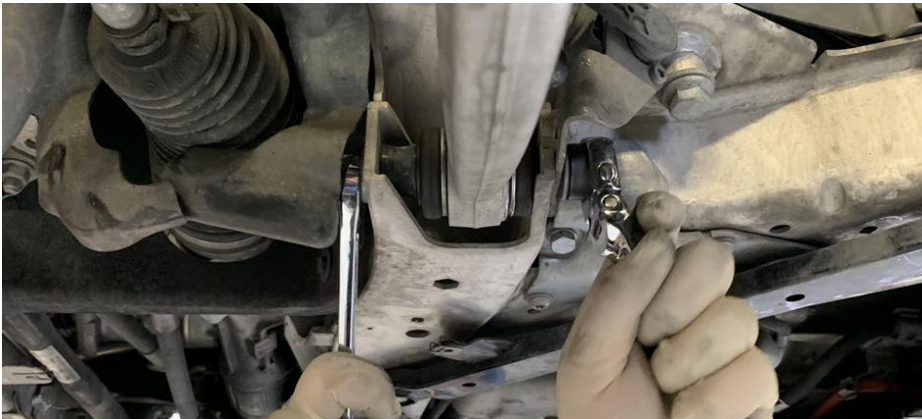
**Step 4**

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**

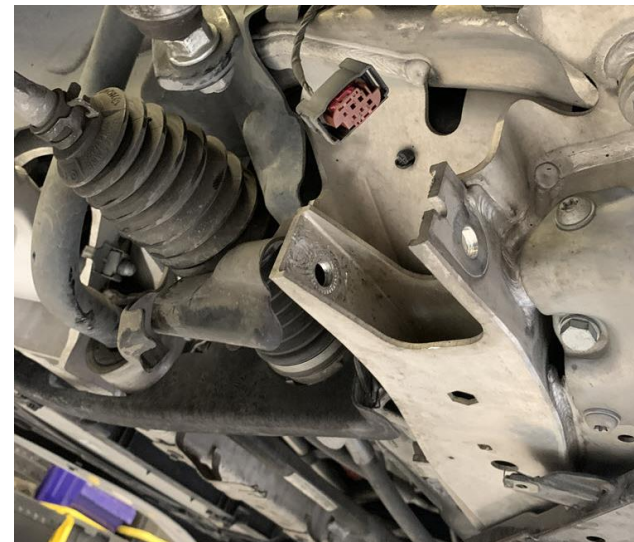
Remove the 21mm nut from the rearward subframe mounted bushing. Use 18mm socket on bolt head to prevent spinning.

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

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

**Step 9**

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

**Step 10**

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

**Step 11**

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



**Step 12**

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

**Step 13**

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

**Step 14**

Repeat process for right side.

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

**Step 15**

Reinstall the engine splash shield.

**Step 16**

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

**Step 17**

We highly recommend having an alignment done.

**Step 18**

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

