

D2 Adjustable Upper Control Arm Kit**034 MOTORSPORT**

The new version of these control arms is designed using our newest and most up-to-date Density-Line rubber formulation unique to 034Motorsport, as well as an updated/tighter tolerance set of high-quality Aurora spherical bearings. These updated bushings and bearings make the redesigned D2 A8/S8 arms as high quality as possible, utilizing the years of R&D testing we have been able to conduct with these components.

Installation Spiciness Rating: MEDIUM

Installation of your 034Motorsport Billet Upper Control Arm Kit is a straightforward process that will take approximately 4 hours to complete, not including alignment.

Supplied Parts:

- (4x) billet control arms with bushings installed
- (4x) spherical heim joints with jam nuts
- (4x) dust boots
- (4x) washers
- (4x) M10 screws
- (4x) pins
- (2x) packets of anti-seize
- (1x) packet of Loctite

Tools Needed:

- 18mm Socket
- (2x) 18mm Wrenches
- (2x) 16mm Wrenches
- 6mm Allen
- Phillips Screwdriver
- Rubber mallet

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

About This Guide

This Install Guide documents the installation process on a D2 Audi S8. There may be minor differences depending on specific vehicle, market, options, etc.

Assembly Steps

Step 1

Open hardware packages.



Step 2

Slide the pin into the heim joint.



Step 3

Install washer onto the back of the pin and install screw to hold the washer in place. Do not apply Loctite yet.



Step 4

Apply half packet of anti-seize to spherical heim joint.



Step 5

Run the jam nut down the shaft to disperse the anti-seize along the entire threaded portion.



Step 6

Install the heim joint into the billet arms.



* We ship the dust boots uninstalled; once you have the alignment set, install the dust boots before final installation (optional).

You are now ready to start the installation process.

Install Steps

Step 1

Lift the car to access the front suspension.



Step 2

Remove the front wheels.



Step 3

Using (2x) 16mm wrenches, remove the pinch bolt securing the control arms to the upright.

**Step 4**

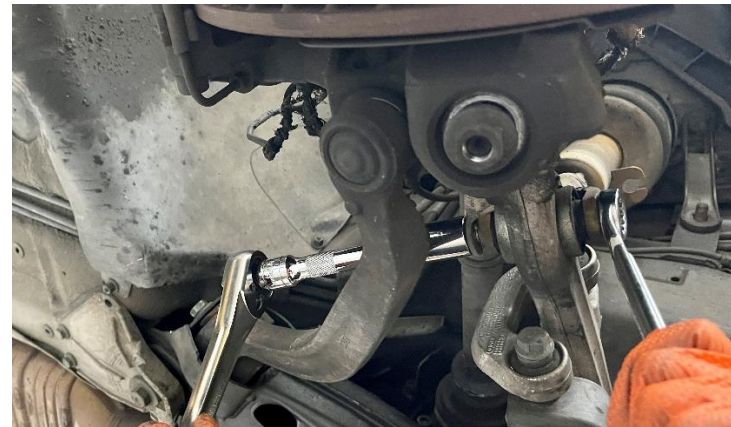
Use a mallet to separate the control arms and the upright.

**Step 5**

Use an 18mm socket and wrench to remove the nut from the strut mount support bracket.

**Step 6**

Use (2x) 18mm wrenches to remove the bolt securing the shock to the front lower control arm.



Step 7

Lower the car back down and open the hood to access the engine bay. Remove the highlighted panels in Step 8.

**Step 8**

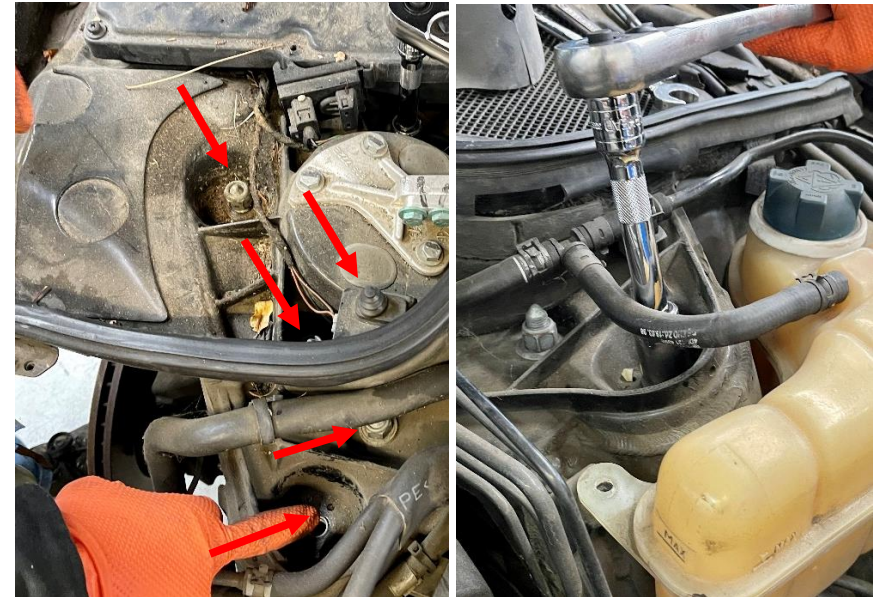
Using a Phillips screwdriver, remove the screws from the plastic covers to access the strut mount hardware. Remove the cowl plastics as well by pulling up and out.

**Step 8 cont.**

*The left side is hinged, remove bolt and flip downward to reveal the hardware.

**Step 9**

Using an 18mm socket, remove the nuts from the upper strut mounts/control arm. 5 nuts per side.

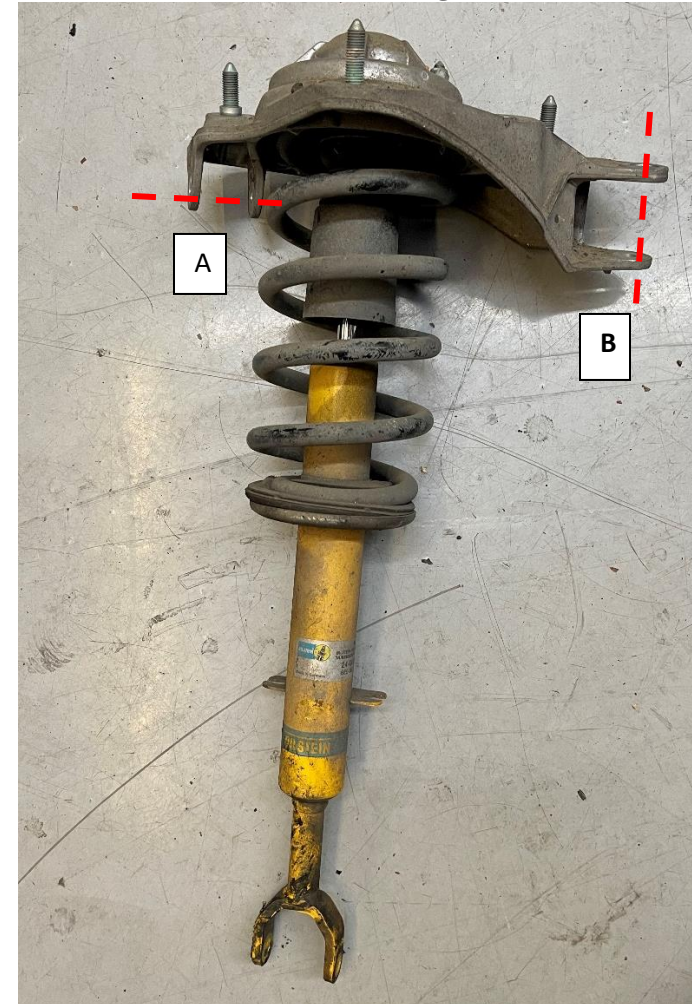


Step 10

Now that the strut assembly is free, carefully remove it from the vehicle. The weight of the upright should allow for easy extraction.

**Step 11**

With the strut assembly on the ground, remove the factory upper control arm hardware using (2x) 18mm wrenches.



Use the length of the short factory arm as a reference for the 034 short control arm. Install the spherical bearing on the longer arm to its shortest setting. This allows for a factory camber setting.

Step 12

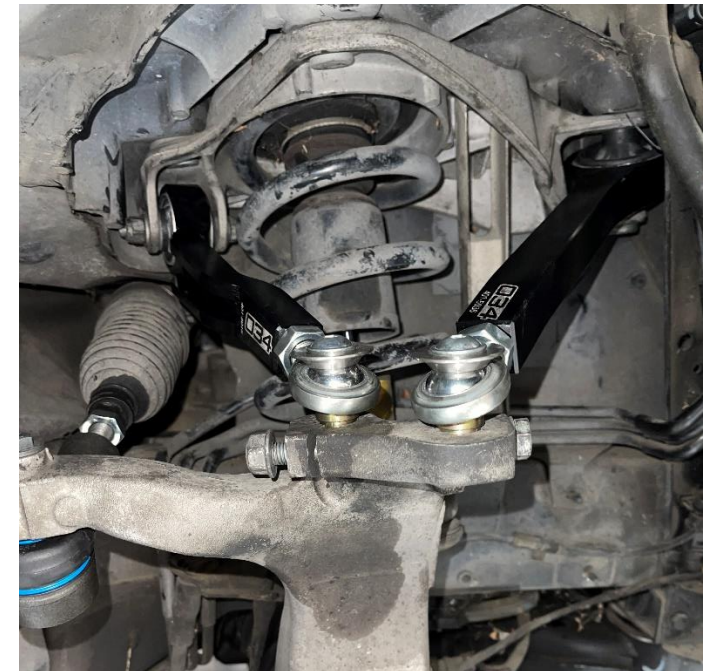
Swap in the 034 billet control arms. The short arm goes into location A, the long arm goes into location B. Do not tighten hardware until the car is resting at ride height. (We put the arm in location B upside down, it was corrected for the next photo)

**Step 13**

Reinstall the strut assembly by inserting the top portion in the upper strut mount and aligning the lower shock mount with the lower control arm. Don't forget the strut mount support bracket! Secure the upper and lower mounts with the OE hardware.

Step 14

Insert upper control arm pins into the upright and secure with the pinch bolt.



Step 15

Put the front wheels back on.

**Step 16**

Torque all hardware accordingly, at static ride height!

- Upper Control Arm (rear) hardware – **50Nm + 90***
- Upper Control Arm (front) hardware – **100Nm**
- Strut Mount/Support Brace hardware – **100Nm**
- Upright Pinch Bolt – **40Nm**
- Lower shock/control arm hardware – **90Nm**

**Step 17**

After the hardware has been properly torqued, the vehicle will need an alignment.

**Step 18**

Apply blue Loctite to the bolt securing the upright pins. Using a 6mm Allen bit, install the bolt into the pin.



Step 19

Return the wiper cowl and plastic strut mount covers.



Step 20

Close your hood.

Step 21

You are finished. Enjoy the upgraded suspension.

