



E36 & E46 Offset Monoball
Trailing Arm Bearing Install Guide





Table of contents

Overview.....	3
Disclaimer & Safety.....	4
Preparation.....	5
Removal.....	6
Installation.....	7
Troubleshooting.....	15



E36 & E46 Offset Monoball
Trailing Arm Bearing Install Guide

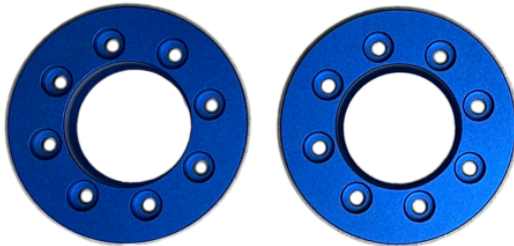
Overview



Bearing Housing (2x)



Large Spacer (2x)



Bearing Cap (2x)



Large Seal (2x)



Small Spacer (2x)



Grease



Fastener (16x)



Small Seal (2x)



E36 & E46 Offset Monoball Trailing Arm Bearing Install Guide

Disclaimer & Safety

This bearing kit is intended for off road use in controlled environments.

This kit is intended to be installed by a qualified mechanic. If you or your mechanic have any questions, please contact info@drifttec.co

DriftTec LLC is not liable for personal, property, legal, or financial damages from the use or misuse of any product we sell.

The purchaser is solely responsible for the safety and performance of these products.



E36 & E46 Offset Monoball Trailing Arm Bearing Install Guide

Preparation

You will need a trailing arm bearing press set to remove the old bushings and install the new bearing cups.

There are a few options:

BMW OEM type tool - Works with both e36 & e46

Universal style tool - While it is a very tight fit, it does work with e46. For e36, the outer bearing flange needs to be bent in or cut out before it can be pressed out.





Removal

Remove the trailing arm bracket from the chassis.
Remove the trailing arm bracket from the trailing arm.

Press the old bushings out, being sure to push the bushing towards the outside of the car.



Note: You may need to have both rear wheels in the air and shocks removed to get enough clearance to fit press tools.

Using a wire brush or something similar, lightly clean the trailing arm mating surfaces.





E36 & E46 Offset Monoball Trailing Arm Bearing Install Guide

Installation

Insert the bearing cup partially from the outside in.



Press the bearing cup into the trailing arm until the flange makes firm contact with the trailing arm.





E36 & E46 Offset Monoball Trailing Arm Bearing Install Guide

Apply a light amount of the supplied grease under the bolt heads and on the threads of the 8x fasteners.



Install the cap from the inner side of the car to the bearing cup.





E36 & E46 Offset Monoball Trailing Arm Bearing Install Guide

Hand tighten the 8x fasteners between the bearing cup and the cap.



Note: When hand tightened, you may notice a gap between the cap and the trailing arm or the cap and the inner bearing. This is by design, follow the torque procedure.





E36 & E46 Offset Monoball Trailing Arm Bearing Install Guide

Note: It is critical that the fasteners are greased and the torque procedure is followed

Torque the 8x fasteners using the following procedure:

1. Using a star pattern (outlined below), torque the fasteners to 2 N*m (18 in*lb)
2. Using a star pattern (outlined below), torque the fasteners to 4 N*m (35 in*lb)
 - a. Repeat until no fastener turns when torque (4 N*m / 35 in*lb) is applied. This usually takes about 3 repeated star pattern sequences.



Note: There should now be no gap between the bearing cap and trailing arm or the bearing cap and inner bearing.





E36 & E46 Offset Monoball Trailing Arm Bearing Install Guide

Apply a light amount of the supplied grease to the inner bearing housing surfaces and outer spacer surfaces.



Push the misalignment spacers into their corresponding seals. Leave about 2mm from the end face of the spacers and the end of the seals (see below).

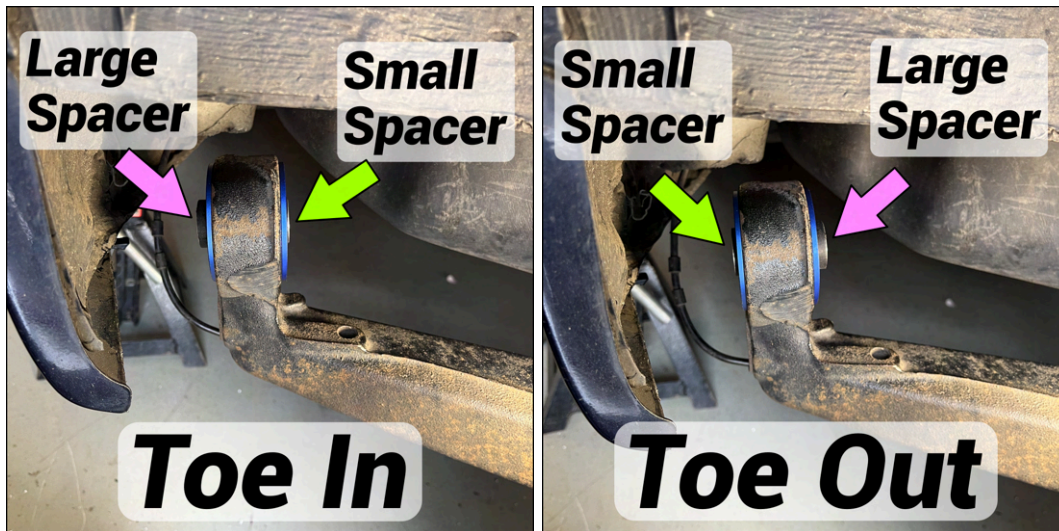




E36 & E46 Offset Monoball Trailing Arm Bearing Install Guide

Each bearing assembly should have 1 small and 1 large misalignment spacer and seal assemblies. The smaller misalignment spacer goes towards the side that you would like more toe adjustment bias.

Example: Small spacer towards the inside of the car for more toe in. Small spacer towards the outside of the car for more toe out.



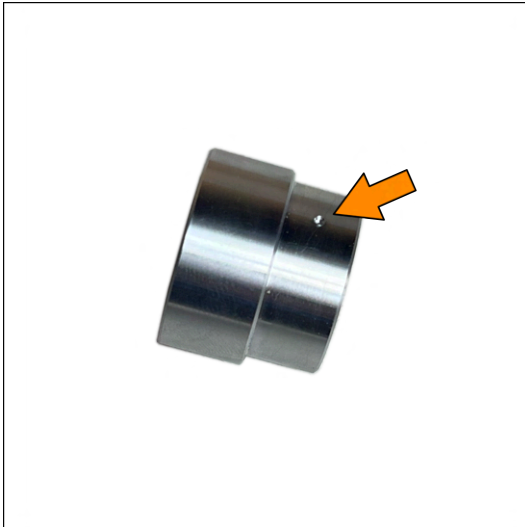


E36 & E46 Offset Monoball Trailing Arm Bearing Install Guide

Install the spacers and seals with care to start the seal in the bearing cups before pushing the spacer into the monoball bearing. Make sure the seal is completely seated by pushing down on the seal around all edges.



Note: There is a small divot on the misalignment spacers to keep them in place while the trailing arm bracket is installed.



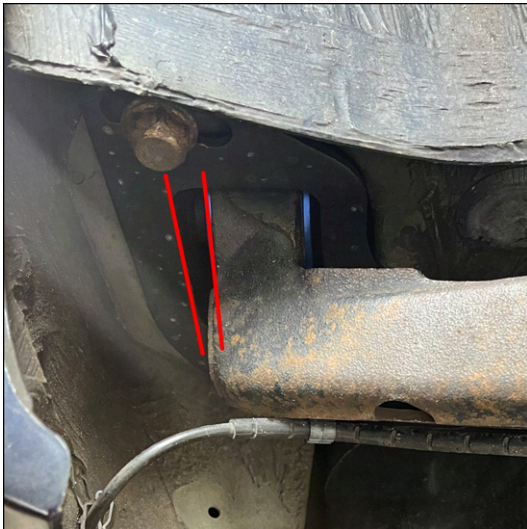


E36 & E46 Offset Monoball Trailing Arm Bearing Install Guide

Install the trailing arm bracket to the trailing arm. Torque the bolt and nut to 110 N*m (81 ft*lb)



At ride height, ensure the bearing is parallel with the trailing arm bracket edge. The trailing arm bracket may be rotated to move these edges parallel.



Ensure there is no contact between the trailing arm bracket and trailing arm/bearing through the suspension travel range.

Repeat the installation procedure on the opposite side of the car.



Troubleshooting

Symptom	Possible Cause	Solution
Bearing is hard to move by hand	n/a	This is normal. Bearing preload is checked before shipping.

Other issues? We're here to help!

If there are any questions that can not be solved by the above table, contact us at info@driftec.co with a brief description along with your contact information.