

**MRT-20006-1 Bump steer adjustable tie rod kit, BMW E30 / E36 / E46**

Kit content:

2x Bump steer adjustable tie rod (pre-assembled)



Disclaimer:

- *Racing part with NO warranty, not for use on public roads*
- *Manufacturer disclaims all liability for direct, indirect, incidental or consequential damages, including damage or loss of equipment, cost of purchase or replacement of goods, accident or injuries, or claims of the purchaser that result from the use of the part*

Tools / equipment required for installation:

- 19mm / 22mm wrenches or sockets
- Torque wrench
- Loctite (**blue**)

Torque rates for the bolts / screws / nuts:

- 3/8"-24TPI 12pt nuts                      40Nm
- M12x1.5 nyloc nuts                          45Nm
- M14x1.5 lock nuts                            100Nm

Important notes:

- Fits only E30 / E36 / E46 -type knuckles / spindles
- **E36 type inner tie rods required on E30 applications**
- **Longer E90 inner tie rods required with E46 non-M / E46 M3 control arms**
- **Tie rod stud may need to be shortened in small wheel applications**

Installation:

**1. Remove tie rod from the spindle / knuckle**

- a. Remove inner tie rod on E30 / E46 / E46 M3 applications or if used in addition of E46 control arms
- b. Replace the inner tie rod if required

**2. Install tie rod mounting stud into spindle / knuckle**

- a. Remove big taper adapter with E30 / E36 spindles / knuckles
- b. Use big taper adapter with E46 / E46 M3 spindles / knuckles



- c. Tighten up the nyloc nut (*M12x1.5 45Nm*)

### 3. Install alloy tie rod end and align as in the picture

- a. Tie rods ends are drilled eccentric in an angle on purpose to allow suitable rod end misalignment angle
- b. Bump steer geometry can be adjusted via shims



- c. Install ARP 12-pt nut beneath the rod end by hand, do not tighten until you've done re-alignment

4. Re-align front toe geometry and tighten up the tie rod lock nuts (100Nm)
5. Check and measure bump steer geometry, adjust by relocating the 5mm shims
  - a. After confirmed setup tighten the ARP 12-pt nut (40Nm, *with Loctite*)
  - b. Insert and secure the pin



6. Remember to check and inspect all fasteners after first 100km and occasionally after every 500km until the fasteners have set properly. Repeat inspection before and after every trackday

If you have any questions, feedback or other comments regarding the kit please reach us via email / WhatsApp or social media direct message:



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If you have problems / issues with the kit, please state where you have bought the kit, original Order No. and / or exact model of the kit you have / you supposed to have to ensure we can give you an accurate response.

All spare parts are available on our webshop and dealerships around the world:

<https://mrtengineering.fi/collections/spare-parts>

<https://mrtengineering.fi/pages/dealers>



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