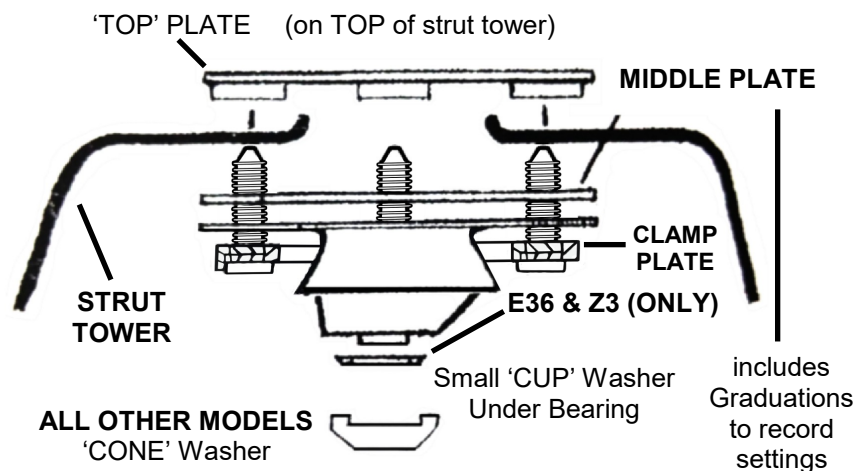


# **H/DUTY BALL RACE THRUST BEARINGS & Elastomer Centers (STREET)**

\* Kit also provides up to 7 degrees Positive Caster same as 'M' Series

- **Can fit (and adjust) with strut brace** •

Also **STAGE 2 (STREET/RACE)**, **STAGE 3 (FULL RACE)** KITS.  
 Plus Front lower inner arm 'extra' Camber & Caster performance bushings  
 (For E36/46/Z3/Z4 models lower arm inner rear Mono ball / 2 Axis  
 bushes - (also available in "offset" for extra positive Caster).  
 PLUS - Rear Camber kits, Up-rated Toe Bushing - See Website



## FITTING

**Simply replaces original strut 'upper' mounts.**

Refer manufacturers workshop manual re removal and installation  
 Observe all safety procedures

Thrust bearings are extra heavy duty - split outer ring - cageless for strength.

## ALIGNING - NO NEED TO JACK TO ADJUST

- From Engine bay, loosen the '3' top mount nuts on strut tower.
- Use large screwdriver to lever / ratchet KMAC adjuster mount crossways for Camber (rear to increase positive caster).
- Once optimum setting obtained, tighten to **32Nm (23ft.lbs)**

**INITIALLY SIT KMAC ADJUSTERS ON TOP OF STRUT TOWERS. . .**

**3 STRUT TOP HOLES ARE EVEN SPACING**

**Kit (Centers) are 'Left' and 'Right' hand offsets**

THEREFORE BEFORE INSTALLING / ADJUSTING  
 (Select side & position that will achieve best results!)

## E36, Z3, E81-93

E36 / Z3 'M' Series use stage 2 #191916-2L  
 stage 3 #191916-3L

- IF OUTER TIRE WEAR**  
**MOUNT POSITION FOR MORE**  
**NEGATIVE CAMBER**

This # A settings allows up to 7°s Positive Caster.

- IF INNER TIRE WEAR**  
**MOUNT POSITION FOR MAXIMUM**  
**POSITIVE (+) CAMBER**

- FOR 'MAXIMUM' NEGATIVE**  
**(-) CAMBER**  
**(HOLE OFFSET FULLY INWARDS.)**



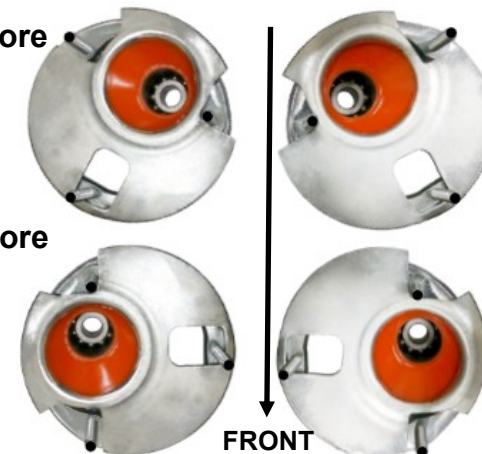
## E39,E46,E60-64,81-93,Z4, Incl. 'M'

• E46 / Z4 'M' Series USE - Stage 2 (Street/Race) #193616-2L  
 Stage 3 (Full Race) #193616-3L

Models - earth cable mount lug & leg of the micro filter box is on top of strut towers - detach the 3 alloy washers from under. KMAC 'Top' plate (hold plate vertical & tap edge of washers). Discard Top plate and fit alloy washers only, under each mount nut.

Mount for more  
**Negative**  
**Camber**

Mount for more  
**Positive**  
**Camber**





## Front Stage 1 (STREET) **#192416-1J**

**BWM E36, 39, 46, 60-64, Z3/Z4 Incl. 'M'**

**FRONT CAMBER (and CASTER) FOR THE 1st TIME**  
(and accurate-underload direct on alignment rack)

- ✓ **Quickest Adjustment** - Change Camber & Caster settings - from engine bay and with strut brace fitted
- ✓ **Centers H/Duty** - Ball Race (Thrust Bearings for steering loads with elastomer for extended wear life)

**\* ALSO MANUFACTURED \*  
STAGE 2 (STREET / RACE), STAGE 3 (FULL RACE).  
SEE WEB SITE**

- **FRONT** - Also lower inner arm 'extra' Camber & Caster performance bushings  
- Mono ball / 2-axis design (E36/46/Z3/Z4 models lower arm rear mono ball bushes - also available in "offset" for extra positive Caster).

***Always 1st With The Latest Design Breakthroughs ....***

- 1. WISHBONE:** Precise Ball Joint Adjustment System.
  - 2. STRUT(top):** Biggest/Quickest Adjustment System.
  - 3. BUSHINGS:** Single Wrench - Precise On Car Adjustment.  
**Including unique KMAC "non-slip" lock system!**
- Actual Inventors/Patentee's - The '3' Basic Suspension Systems***

*We do appreciate any ideas to further improve our market leadership !*