

# Fitting Instructions for KCA346

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*Flat out*

Code: Z237

## Application:

Nissan Pulsar/Sunny N14 GTiR.

**KCA346** is designed to increase the positive caster setting by up to +1.0 degree, while at the same time modifying the front anti-lift geometry. The result is dramatically improved traction, reduced power understeer, increased negative dynamic camber, increased vehicle stability and steering feedback. The combined benefits will improving overall handling and traction behaviour.

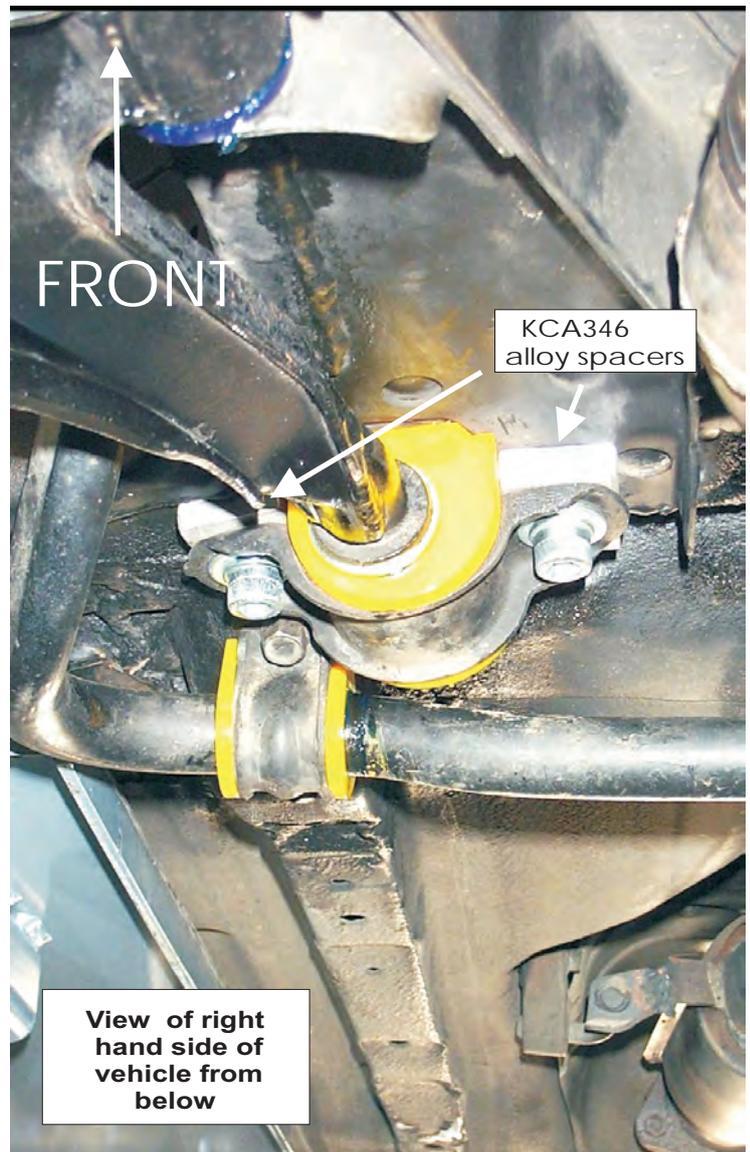
## Contents:

KCA346 kit contains the following hardware parts;

- ✂ 4 \* M12 x 1.25 x 50mm cap screws
- ✂ 4 \* M12 x 24mm washers
- ✂ 4 \* M12 x 2.5 spring washers
- ✂ 2 \* yellow polyurethane offset bushes
- ✂ 4 \* alloy spacer blocks

## Fitting:

- ✂ Check wheel alignment settings then raise the vehicle, support on safety stands and remove road wheels.
- ✂ Remove the original rear bush and mount from the front lower control arm.
- ✂ Fit new poly, taking care to first grease the inside of the bush while setting the desired bush off-set position for positive caster. (Refer picture.)  
NOTE: KCA346 bushes can ONLY be fitted with maximum positive adjustment with off-set hole relocating rear arm pin further outward from the centre of the vehicle.
- ✂ Refit lower control arm mounting bracket using the alloy spacers and new mounting hardware provided.
- ✂ Tension all mounting hardware to manufacturers specifications with the vehicle at normal ride height ONLY.
- ✂ Refit road wheels and lower the vehicle prior to test drive and performing a wheel alignment.
- ✂ Check and retention all fittings after an appropriate settling in period but within 100kms of use.



**Warning:** Please drive carefully while you accustom yourself to the changed vehicle behaviour.

# CASTER OFFSET

## FRONT LOWER CONTROL ARM REAR BUSH

### UNIVERSAL FITTING INSTRUCTION

Code: Z5101

**Caster bush kits are designed to improve handling performance, vehicle straight line stability as well as cornering grip through increased static caster and dynamic negative camber gain. Polyurethane bushings also improve steering response and feedback.**

We recommend that all work be carried out by a qualified technician. Sound motor vehicle mechanical knowledge is expected. In some countries and states, fitment may only be legally performed by a licenced mechanic. Check the regulations in your area.

Caster Kit components will vary depending on the individual product and application.

#### Caster Kit fitment and adjustment.

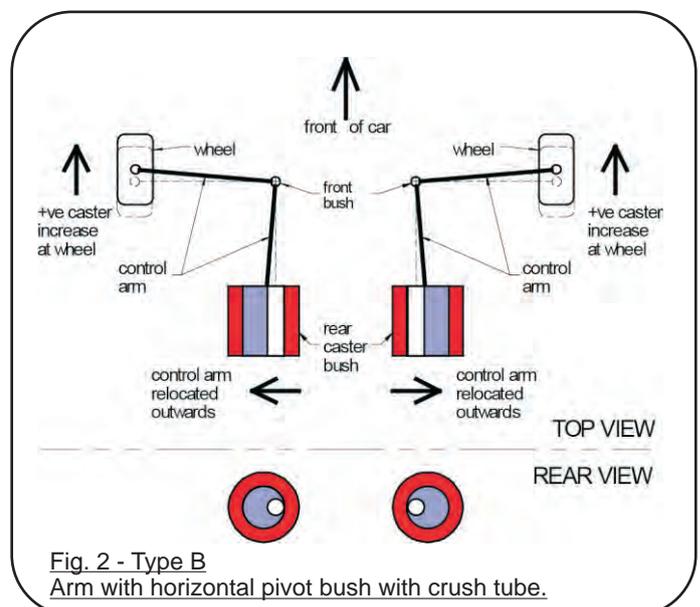
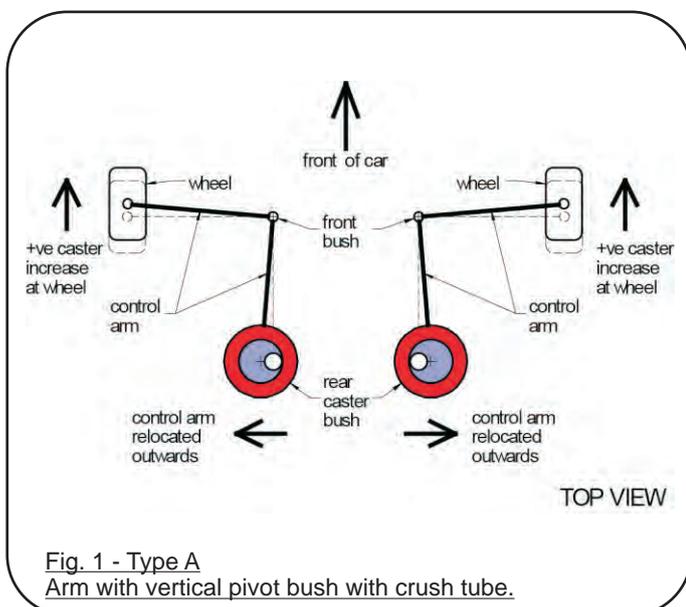
1. Measure wheel alignment settings prior to commencing any work.
2. Raise front of vehicle, support on safety chassis stands or hoist, and remove front wheels.
3. Remove lower control arm from vehicle. In some cases, it may be necessary to remove other suspension components.
4. Remove original rear bush from lower control arm or housing using suitable tools. In some cases, workshop press may be required.
5. Clean any flaking paint, rubber and dirt from bush housing, smear grease supplied only onto the bore and flanges of the bushes and fit to control arm or housing.

*Note: While some Caster Kit types are pre-set for extra caster (not adjustable) and some types are adjustable, all are designed to improve handling performance by increasing and maximizing caster settings on one or both sides of the vehicle. For correct fitment and alignment of bushes and crush tubes, refer to Fig. 1 for vertical pivot bush, or Fig. 2 for horizontal pivot bush.*

6. Refit lower control arm, and lightly tighten all fittings.
7. Refit wheels, lower the vehicle and settle suspension. DO NOT drive at this stage.
8. With the suspension settled, and the vehicle at normal ride height, tighten all fittings to original manufacturers torque specifications.
9. Test drive the vehicle, and re-check all fittings.
10. Measure new wheel alignment settings, and adjust as required.

#### Post installation check and maintenance.

- Re-tension all fittings after a settling-in period, but not later than 100kms (60miles) after installation.
- For noise and friction free operation, carry out periodic inspections and maintain proper bush lubrication.



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