



# Owner Handbook

CK37  
Austin Healey 3000 mk3  
Series II  
BJ8 26705-ON



## Introduction

Thank you for buying this CK 37 lever arm to telescopic damper conversion kit. Your kit is Epoxy Powder Coated and Dyno tested to the strictest TÜV standards. The dampers are Krypton Gas filled to give stunning high speed performance and better quality low speed ride.

## Safety First

- If working under or on a lifted vehicle, ensure that it is safely supported.
- If compressing a spring, ensure that the correct tools are used. Failure to do this can result in serious or fatal injury.
- SPAX dampers are gas pressurised. Never puncture, dismantle or incinerate.
- The literature contained with this suspension kit is meant as a guide only and is not comprehensive. SPAX Performance Ltd accepts no liability whatsoever for damage, loss or injury incurred as a result of using this literature.

## Fitting Notes

- SPAX recommends that this kit be fitted by a suspension specialist.
- Never use an impact wrench to tighten nuts and bolts.
- Never force the damper adjusters. Forcing them will cause damage.
- This kit replaces the original lever arm

## Kit Contents

2x **G3422 Dampers**

1x **Fuel pump bracket**

1x EA **Upper Left/Right hand Assembly**

- 2x 3/8UNF Nyloc nut (0060405)
- 2x Washer (0060811)
- 2x Washer (0060898)
- 2x Spacer for in box section (0060329)
- 1x Bush retaining bolt (0061012)
- 1x Bush retaining washer (0060898)
- 1x Locking washer (0061012)
- 1x Welded bracket Upper LH/RH EACH

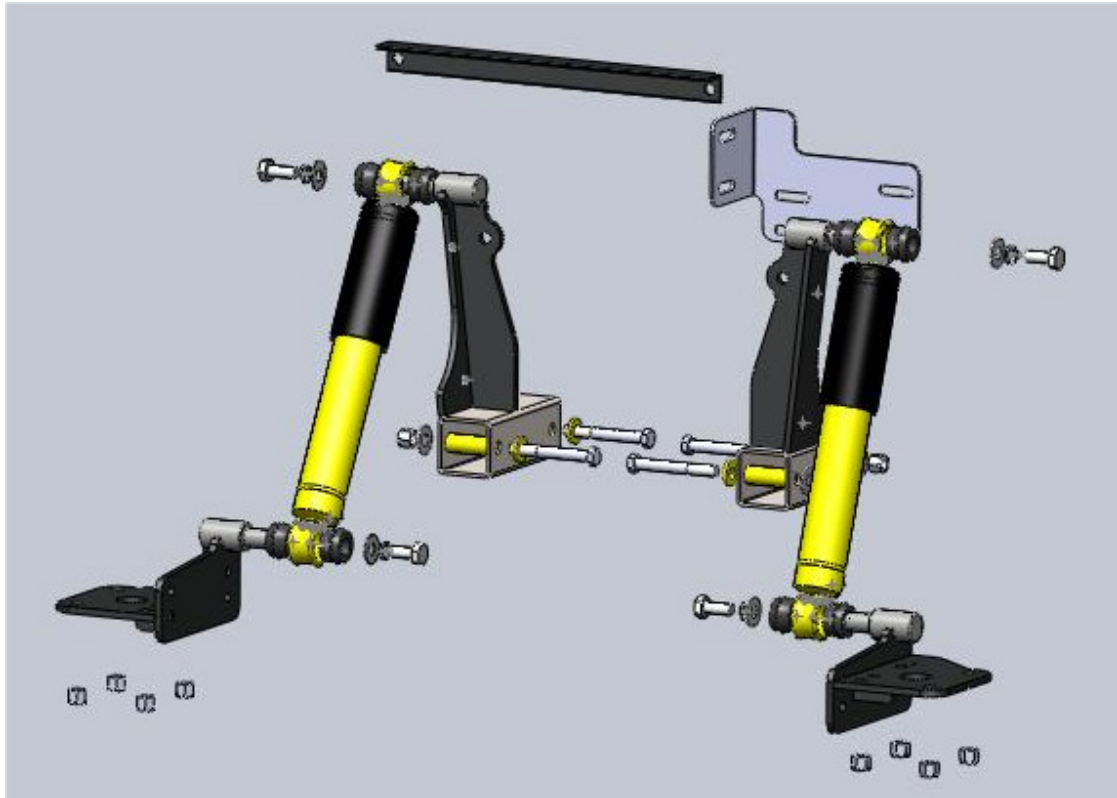
1x EA **Lower Left/ Right Hand Assembly**

- 4x 3/8" UNF Nyloc Nut (0060405)
- 1x Bush retaining bolt (0061012)
- 1x Bush retaining washer (0060898)
- 1x Locking washer (0061012)
- 1x Welded bracket Lower LH/RH EACH



## Fitting Instructions

### General fitting drawing.

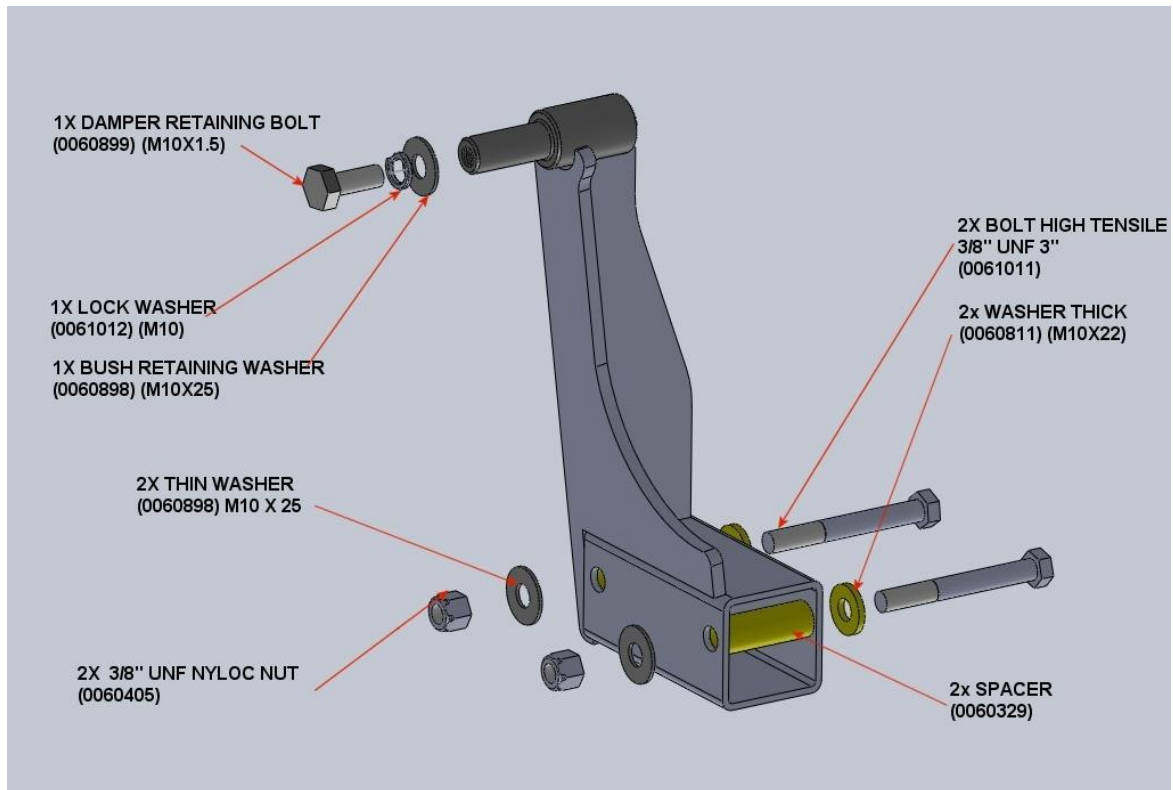


Note. In the above drawing is a support bracket to join the left and right hand upper damper mounts. This part is not included in the kit. Your lever-arm mounts on the chassis, if in good condition do not require this additional strengthening under normal road use. If you are racing, carrying large weights or feel this is something you would like it is simple to make. A piece of 1" angle cut and drilled to match the provided lugs on the Spax brackets.

1. With the REAR of the car safely supported on axle stands remove the original lever arm dampers. Remove the associated link arm and bushes. Store in a safe place.

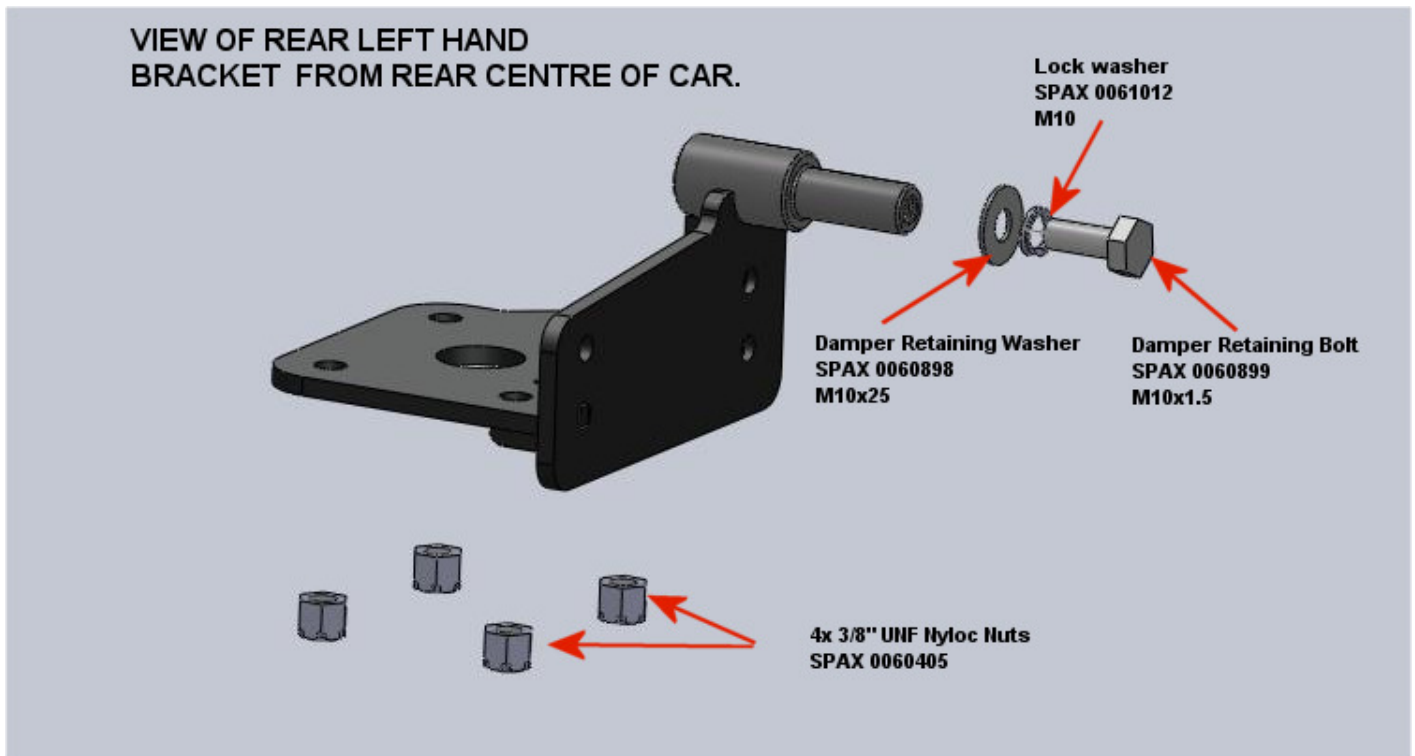


2. If your car has the original style fuel pump positioned above the Lever-arm damper this will need to be repositioned. It is obvious but special care needs to be taken when handling petrol. Remove fuel pump and original bracket. .
3. Fit the Spax upper damper mounts using the high tensile bolts, thin washers towards the outside of the car, tubular sleeves inside the bracket box section, and thick washer inside the chassis. Tighten to 30Nm (40Lbs.ft) See diagram.





4. Fit Spax Fuel pump bracket and re-attach fuel pump. You will see the Spax bracket is highly adjustable with slotted holes this is to you can find the best possible position for the fuel pump. We suggest position the fuel pump as high and as to the outside of the car as possible. When fitted check that the axle and brake pipes will not contact fuel pipes when the car is in use.
5. Support the leaf springs from below and undo the axle securing "U" bolts. Replace the original bottom plate with the Spax damper mount. You may use the Spax provided nuts.



Right Hand Lower Bracket, fitted.

6. Finally fit the SPAX dampers onto the fixing pins with the bolts, washer and locking washers provided. See diagram, on previous page. Tighten the bolts to 30Nm (40Lbs.ft). The damper thumb wheel adjusters are easiest to access when facing towards the centre of the car.

7. After fitting we advise you have a good look and check that there are no potential issues relating to fuel line rubbing or brake pipe rubbing. Preventive action may be needed.
8. The exhaust pipes run just under the left hand damper this is a close clearance. When the car is at normal ride height standing on its wheels there should be plenty of clearance. Naturally this is classic car and it may not be on its original exhaust so some tweaking may be required if the exhaust contacts.
9. Double check all the bolts are tight and refit the wheels.

## **Setting Up**

Your CK kit is adjustable for damping force. Adjustments can be made without any dismantling of components, making it simpler, faster and easier to obtain your ultimate set-up.

- All Krypton Gas dampers have 28 stages of adjustment. This allows a wide range of adjustment to suit different driving styles and road conditions.
- The dampers are adjustable in rebound and in bump. The thumb wheel turned fully anti clockwise makes the softest setting (click 1), turned fully clockwise makes the hardest (click 28).
- We liked the adjustment at click 5.
- To obtain the ideal set up for you and your car, take a logical approach, adjust up the dampers from fully soft, drive, increase the stiffness in 4 click steps and drive. Every time the driving sensation improves, carry on adjusting up by 4 clicks. When the driving sensation deteriorates adjust back one click at a time until you find your perfect setting.

**After approximately 100 miles check all fixing bolts.**

## **Use**

SPAX performance suspension is designed to improve the safety and performance your car. This suspension kit has been designed for road use and for limited track day use.

## **Maintenance**

Long-term exposure to corrosive conditions (e.g. salt, acids) or driving in sandy or dusty conditions will reduce the life span of the components.

The damper adjuster mechanism is pre lubricated. Yearly under normal conditions we recommend lubrication with a waxy corrosion inhibitor to prolong the life of the components.

## **What makes SPAX special?**

**TüV Certification of the Company & Products - The toughest quality standard in Europe**

**POWDER COATING to give looks and protection that are second to none**

**DYNO TESTING of each and every damper so you get maximum performance and quality - guaranteed**

**GAS DAMPERS - Krypton pressurised for stunning high speed performance and superior low speed ride**

**Everything Adjustable on car, with no dismantling**

