

Accessories

AL-KO

Vehicle Technology

Octagon Shock Absorbers

Product Features

- Designed exclusively for Euro-Axles
- Complete retro-fit kit for simple installation
- Four weight ranges for optimum damping
- Colour coded for easy identification
- Improved ride comfort and roadholding



For that 'added assurance' while towing a caravan or trailer, AL-KO has introduced the Octagon Shock Absorber. Designed specifically to complement the AL-KO Euro-Axle, the Octagon Shock Absorber is available as a retro-fit kit. With a range of four Octagon Shock Absorbers, colour coded to aid easy identification, optimum damping and improved ride comfort and road holding can be achieved whatever the caravan or trailer weight. Each retro-fit kit contains two AL-KO shock absorbers, four mounting brackets and all the necessary fixings.

Fitting could not be simpler. All it takes is a few tools and twenty minutes per axle. The variable pitch top boss joints allow the shock absorbers to be installed at angles of up to 5° without misalignment. Manufactured by AL-KO, with its distinctive octagon shaped cover, and conforming to the highest standards, the Octagon Shock Absorber will provide a long life and 'added assurance'.



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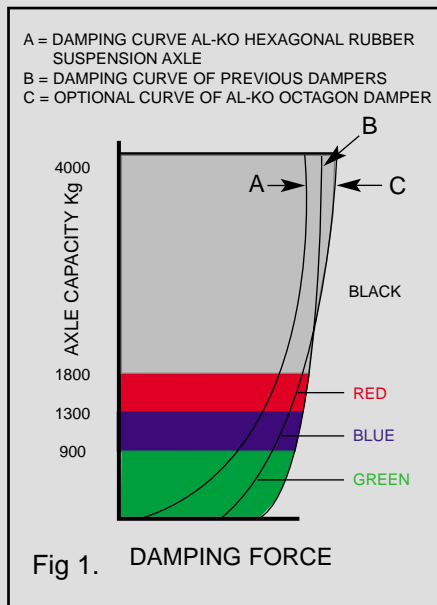
Vehicle Technology

Specification and Technical Data

Table 1

Octagon Shock Absorbers			
Kit Part No	Colour Code	Axle Weights (GVW)	
601204	Green	Single Axles Tandem Axles	Up to 900 kg Up to 1600 kg
601205	Blue	Single Axles Tandem Axles	901 - 1300 kg 1601 - 2600 kg
601206	Red	Single Axles Tandem Axles	1301 - 1800 kg 2501 - 3500 kg
601207	Black	Single Axles Tandem Axles	1801 - 4000 kg 3501 - 7500 kg

The Hysteresis Diagram - see Fig 1 - demonstrates the improved damping performance provided by the AL-KO Octagon Shock Absorber.



Long Life

- An overload protector prevents overstressing of material (over stressing decreases the response curve).
- High quality seals used throughout for longer life.
- The piston valve is manufactured in chromated sintered material. This minimises friction and the accumulation of dirt and considerably increases shock absorber life.
- A seal between the inner and outer tubes protects the piston shaft from dust and dirt.
- The surface finish of the piston rod is 0.15 Ra. which reduces wear on the seal.
- AL-KO uses a specific oil which is unaffected by temperature. Chemical additives prevent the formation of bubbles and inhibit noise.

Fitting Instructions

- 1 Ensure the handbrake is fully on and the jockey wheel is down and secure. Chock the opposite wheel.
- 2 Loosen wheel bolts. Jack up caravan or trailer under the axle until wheel is off ground.
- 3 Place an axle stand into position and lower any corner steadies or prop stands.
- 4 Remove wheel bolts and wheel.
- 5 Remove rectangular plastic cap from the underside of the swing-arm - see Fig 2, Item 1.
- 6 Insert mounting brackets - see Fig 3, Items 1 and 2 - ensuring the 'arrow' is pointing forwards - see Fig 3, Item 3. Note:- brackets are handed. Press brackets together using pliers, if necessary.
- 7 Insert bottom shock absorber bolt through mounting bracket. Secure, but do not tighten, with self-locking nut. See Table 2 and Fig 4 to ensure shock absorber is correctly fitted either inside or outside of mounting brackets.
- 8 Insert top shock absorber bolt through chassis member - see Table 3 and Fig 5 to select correct hole, and secure with self-locking nut to 86Nm (63.5 lbs/ft).
- 9 Align shock absorber and mounting bracket and tighten bottom self-locking nut 86Nm (63.5 lbs/ft).
- 10 Replace wheel and wheel bolts.
- 11 Raise any corner steadies or prop stands and remove axle stand.
- 12 Lower jack and torque wheel bolts to 88 Nm (65 lbs/ft) in sequence - North, South, East and West.
- 13 Repeat steps 2 to 12 for other wheel(s).
- 14 When installation complete remember to check wheel bolt torque after first 50km (30 miles).

AL-KO Octagon Shock Absorbers can only be fitted to Euro-Axles

In line with our company policy of constant improvement, we reserve the right to change the specifications without notice.

Table 2

Axle Type	Mounting
Straight axle	to the inside (Fig 4/a)
Delta axle	to the outside (Fig 4/b)
Delta SIN 10/12 (Chassis with members)	Max permissible tyres -6J x 14 ET 38 with 185/70 R 14 tyres -6J x 15 ET 30 with 205/65 R 15 tyres
Delta axle Delta SI 850 Delta SIN 10/12 Delta SIN 14 (Chassis with members)	to the inside (Fig 4/a)

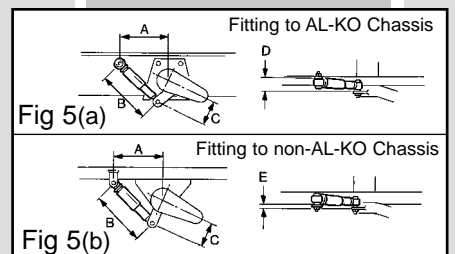
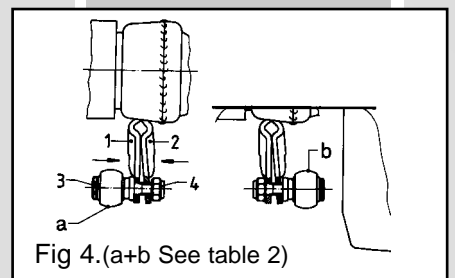
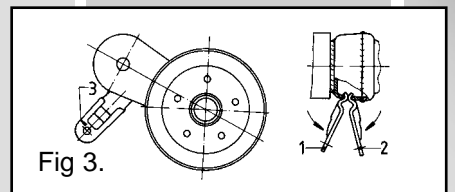
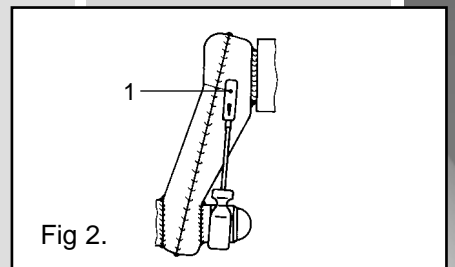


Table 3

Installation measurements unloaded axle (mm)					
Colour Code	A	B	C	D	E
Green	265/270	255 min	approx. 125	52 - 75	15 max.
Blue	235				
Red	265				
Black	265				