

OPERATING INSTRUCTIONS FOR AL-KO SECURITY DEVICE FOR AKS 1300 STABILISERS

**THESE INSTRUCTIONS SHOULD ALSO BE FOLLOWED FOR
THE AL-KO SECURITY DEVICES FOR AK 160/300 COUPLINGS**

INTRODUCTION

The AL-KO Security Device (Hitch Lock) helps protect against the following unauthorised operations:

- 1) Uncoupling from the towing vehicle
- 2) Coupling onto another towing vehicle
- 3) Theft of the stabiliser/coupling from the trailer/caravan

MAINTENANCE

Clean strain bolt, locking bolts and the cutaway portion in the locking plates if they become dirty.

A little grease may be applied but remove excess with a cloth so that only a thin film remains.

Operate the locking cylinder periodically, if the cover has not been used for a while. If the lock only operates with difficulty, spray the cylinder with WD 40 or comparable releasing fluid.

For general lubrication use a Graphite based spray powder.

SAFETY BALL

The safety ball is designed to be used in conjunction with the AL-KO Security Device. The Safety ball is inserted into the coupling area of the Stabiliser, before the AL-KO Security Device is locked into position. This prevents your caravan from being coupled to any other tow hook or smaller towball and being towed away.

APPROVAL

This product holds full TUV approval.

WARRANTY

Product warranty is given in accordance with S10, Clause 1-7 of the General Terms of Business and is usually 12 months from date of purchase.



Fig 1 AL-KO Security Device



Fig 2 Safety ball

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OPERATION

- 1 Insert left and right lugs of safety cover into cutaway portion of the attached locking plates.
- 2 Push the AL-KO Security Device firmly forward until it can go no further.
- 3 Hold security device in place, turn key to the right and press the lock cylinder in, until it clicks into place (Fig 3). Turn the key to the left into the locked position. The strain bolt then moves out and locks.
- 4 Swing the dust cap over the lock cylinder to protect from dirt.



Fig 3 Lock security device and swing cover over lock

REMOVAL

- 1 Open dust cap.
- 2 Insert key and turn to the right, as far as it will go (about 60°).

As a result the lock cylinder will slide up automatically. If necessary, press the safety cover forward and pull out the lock cylinder with the key (turned about 60°).

- 3 Pull security device back.
- 4 Remove security device and stow in vehicle or caravan. So that the dust cap is not damaged during transit, remove key (inserting lock) and swing dust cap over the lock cylinder.

IMPORTANT INFORMATION

Never attempt to fix or remove the security device with a hammer as this may result in damage to the cover.

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ASSEMBLY INSTRUCTIONS

REMOVAL OF EXISTING FIXING BOLTS

Before you start to remove the existing fixing bolts, please note the following: On most overrun assemblies, the shock absorber is secured by the fixing bolt (Fig 4/Item 2).

WARNING

The shock absorber (damper) extends independently. Enclosed with this box is a retaining pin (Fig 5/Item 1) to aid assembly.

- a Remove gaiter and loosen self-locking nut from hexagon cap bolt (Fig 4/Item 1 and Fig 5/Item 2)
- c Push or knock out hex. cap bolt (Fig 4/Item 1)
- d Knock through retaining pin (Fig 5/2) with (Fig 5/1). Leave the pin in the shaft for centring the shock absorber (damper).
- e Any spacers originally fitted must be re-used.

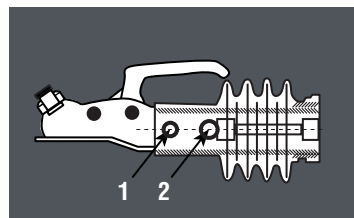


Fig 4

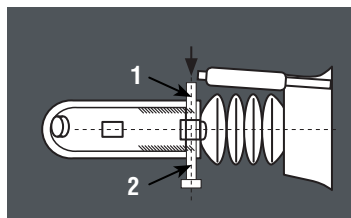


Fig 5

FITTING OF AL-KO SECURITY DEVICE

Horizontal Bolt Fitting: (for AL-KO Overruns), Fig 6.

- 1 Locking plates left/right
- 2 Inner Hex. Bolt M12 8.8 with flat head to DIN 7984
- 3 Self locking nut M12

Cross-type Bolt Fitting: (for other overruns), Fig 7.

- 1 Locking plates left/right
- 2 Inner Hex. Bolt M12 8.8 with flat head to DIN 7984
- 3 Dome Head Bolt M12 8.8
- 4 Half moon shaped fixing lugs
- 5 Section washer (not included in this kit) - please use original washer from coupling head you are removing
- 6 Self locking nut M12

Illustrations show AK 160/300 couplings but assembly procedure for AKS 1300 is identical.

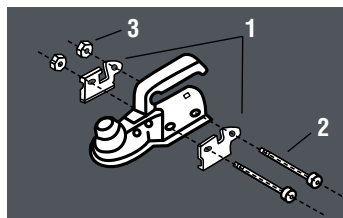


Fig 6

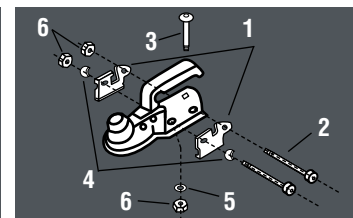


Fig 7

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PROCEDURE

Push Gaiter onto the drawshaft followed by the AK160/300 coupling or AKS 1300 stabiliser with spacers (Fig 8) if necessary, so that the fixing holes line up. If present, position the spacer sleeve in the draw shaft.

Fit parts as shown in Figs 6 or 7. If a spacer sleeve is in the draw shaft, thread this on as well. Push retaining pin (Fig 5/Item 1) through (with the bolt behind - horizontal or vertical). Shock absorber (damper), is threaded on.

FOR YOUR OWN SAFETY, PLEASE CHECK

To make sure the shock absorber (damper) is threaded on, push the draw shaft in and out. If you can feel resistance, then it is correctly positioned. Always insert horizontal bolts as shown in Figs 6 and 7. ie from right to left (when facing caravan) as this allows correct clearances. Always insert vertical bolt from top to bottom and re-use original shim used on the overrun.

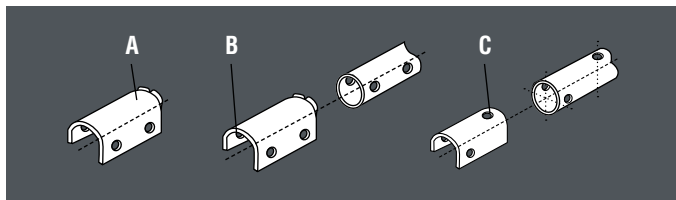


Fig 8 Spacer sleeve options

With cross-type bolt fixing, do not forget to insert half moon shaped plates (Fig 7/Item 4) and section washer (Fig 7/Item 5).

For horizontal bolts, tighten with Allen Key (size 8), as the nuts are fixed and cannot be moved.

For vertical bolts, tighten nut and torque as shown in Fig 9.

Secure gaiter with tie wrap.

Put security device on and lock. If the cover is difficult to put on or lock/unlock then you need to reposition the locking plates. Loosen front bolt and the plates can now move laterally. Re-tighten bolts to correct torque and check if safety cover now fits.

OVERRUN TYPE	TORQUE SETTING
AL-KO 30S	60NM
AL-KO 60S-60S/2	60NM
AL-KO 90S-90S/3	70NM
OTHER OVERRUNS WITH M12 (8.8) BOLTS	86NM

Fig 9 Torque settings for vertical bolts

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Due to a policy of continuous improvement, AL-KO reserves the right to change technical specifications.
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