

13. ELECTRONICS



ELECTRONICS

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ATC TRAILER CONTROL

Anti-snaking system for caravans and commercial trailers*



KEEP SAFELY IN THE TRAFFIC LANE

The emergency system responds automatically when the vehicle combination swaying exceeds limit values.

- | Sensors react even to slight lateral accelerations.
- | The trailer immediately brakes automatically. The driver barely notices this correction.
- | Braking automatically puts the trailer back on track, i.e. there is little risk of a rear-end collision due to sudden, sharp braking, and an overtaking manoeuvre is not affected.

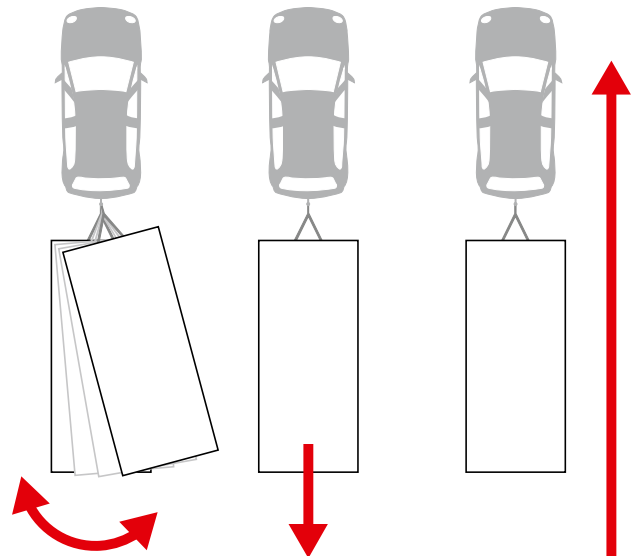
NEW AND IMPROVED

- | Improved early detection of risk of snaking
- | Faster brake access
- | Use up to GA of 3.5 tonnes
- | Optimised weight & design
- | Horizontal installation (installation space and ground clearance)

SIMPLY CLEVER

Avoidance manoeuvres or side winds can cause trailers to start swinging. AL-KO Trailer Control actively counteracts these forces. It detects the swinging motion directly at the axle and automatically brakes the trailer gently.

Put your trust in ATC and contact your insurance company to ask for a discount on the premiums for your caravan.



The driving behaviour of the trailer is permanently monitored by the ATC. Sensors detect dangerous lateral movements directly on the trailer axle, even before an ESP system for trailers installed in the car is able to sense the pendulum movement. The trailer will immediately – without any action on the part of the driver – brake gently and return to a stable driving condition.



The AL-KO ATC stabilisation system can be operated in addition to trailer ESP in the car, such as is offered by some car manufacturers.

AL-KO ATC Trailer Control is a one-off investment that will constantly deliver maximum safety when towing trailers.



! Excellently equipped!

AL-KO offers several safety components for vehicle combinations, which can be used independently from one another, and ensure more stable driving with caravans or trailers.

! ATC – The system for passive safety:

The ATC AL-KO Trailer Control is an emergency braking system and is activated automatically if the vehicle combination encounters a critical instability situation, i.e. if the swinging of the trailer reaches a critical level.

! AKS – The system for active safety:

The AL-KO AKS™ stabiliser permanently suppresses minor swaying and pitching movements of the trailer, and increases the critical driving speed by approx. 20% (ADAC test winner).

Thus, both systems supplement one another to make a perfect safety program:

The new formula for maximum driving safety:

$$\begin{matrix} 1 \\ \text{ATC} \end{matrix} + \begin{matrix} 1 \\ \text{AKS} \end{matrix} = 3$$

1. prevents skidding
2. suppresses pitching
3. counteracts swaying



Automatic: The safety check!



The 13-pin plug establishes the electrical power supply to the car.



The ATC Trailer Control system automatically starts a function test.



The LED on the overrun device lights up green. The system is 100% functional.

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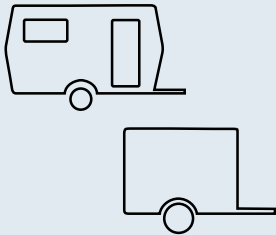
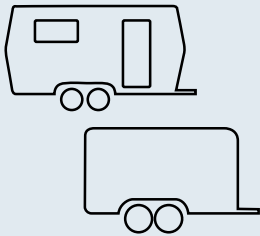


*Only suitable for trailers with a defined weight corridor

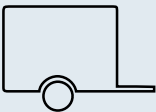
TECHNICAL DATA

ATC Trailer Control

ATC installation in AL-KO chassis

AL-KO chassis	Gross weight min. – max. kg	Unladen weight min. kg	Part no.
	750/1,000	500	1732871
	1,001–1,300	800	1732871
	1,301–1,500	1,000	1732872
	1,501–1,800	1,100	1732873
	1,801–2,000	1,300	1732874
	2,001–2,500	1,600	1732875
	2,501/3,000	2,000	1732876
	3,001–3,500	2,500	1732877
	1,300–1,600	1,000	1732878
	1,601–2,000	1,200	1732879
	2,001–2,500	1,600	1732880
	2,501–2,800	1,800	1732881
	2,801–3,500	2,200	1732882

ATC installation in hobby caravan (from model year 1997) with Knott axle

Hobby caravan	Gross weight min. – max. kg	Unladen weight min. kg	Part no.
	750–1,000	500	1225429
	1,001–1,300	800	1225429
	1,301–1,600	1,000	1225430
	1,601–1,900	1,100	1225431

FAQ

ATC Trailer Control

How long does it take to install ATC?	Retrofitting in about 2-4 hours.
Does ATC need to be registered when retrofitted?	No. It is sufficient for the general operating permit to be included with the vehicle documents.
Where does the ATC get its electrical power from?	The ATC is connected to the trailer's distribution box, from where it is supplied by the continuous positive of the 13-pin plug when travelling.
How much current does the ATC need?	(Standard fuse) 15 amps.
Can the ATC also be fitted to trailers with a 7-pin plug?	No. The electrical power supply via the 7-pin plug is not sufficient.
Where does the LED have to be mounted?	In the area of the overrun device (visual range when coupling).
Does the brake light come on when ATC is working?	No. The ATC brakes the vehicle combination gently, comparable to the engine brake of a car. As a result, there is no need for the brake light to be activated.
Does the ATC (e.g. like the AKS stabiliser coupling) fulfil the new criteria for a 100 km/h speed limit (factor 1.0 in the caravan and factor 1.2 for other trailers)?	No. ATC (like ESP in a car) is solely an emergency system and does not improve the critical speed range like an AKS does.
Does ATC require maintenance?	No. The system is maintenance-free.
How do I detect when ATC is ready to operate?	<p>As soon as the 13-pin plug from the trailer or caravan is connected to the towing vehicle, ATC performs a complete self-check (1 brake activation and plausibility check of the electronics system). The function status is displayed by a green LED on the overrun device.</p> <p>Green = ready to function Red = non-functional (but ready for driving) Red flashing = trailer is braking (not ready for driving)</p>
How can I tell in the car when the ATC emergency system is operating?	The gentle braking effect can be felt in the car.

COBBLESTONE –

The first GPS tracker without fees or subscription!

The COBBLESTONE is an all-round mobile GPS tracker.

It allows users to find all kinds of movable objects with the help of GPS positioning. It is small, handy and ideal for use in motorhomes, caravans, trailers, etc.

It has a long battery life and can be easily set up using the free app or PC version. It is also very simple to activate. Before mounting, shake the GPS tracker vigorously for 10 seconds, and it's ready to go. Activation can take up to 6 minutes and the first position may be inaccurate.

THE ADVANTAGES FOR YOU:

- No subscription, no fees
- No power supply required
- Battery life up to 10* years
- No installation costs
- Easy installation and operation via app (CPH Trackers)
- Anti-jamming sleep mode, as the tracker only activates when there is movement.
- 5 different profiles possible
- Suitable for outdoor use
- Waterproof – IP67



FUNCTIONALITY

As soon as the GPS tracker is moved, it switches on and receives a satellite signal to calculate its position. The GPS data** will be sent directly to your app and your e-mail address simultaneously. The whole process takes about 30-50 seconds.

EXTREMELY EASY SETTING UP THE TRACKER APP

1. Download the "CPH Trackers" app
2. Create user (e-mail & password)
3. Press "+"
4. Enter Tracker ID
5. Set device name
6. Select profile
7. Shake the GPS Tracker for 10 seconds



MOUNTING:

The tracker must be activated before the device is attached with the supplied double-sided tape. The device must not be mounted directly behind metal, in a metal pipe or similar. Please mount the device so that it points towards the sky.



THE PROFILES:

- Live Tracking:** is triggered by movement: Sends its position the first time it's moved, every 15 minutes while moving, 15 minutes after the last movement and once a week while not moving.
- After Movement:** is triggered by movement: Sends its position after 1 hour without movement. The device does not transmit positions while moving. Sends 1 position every week, even when it hasn't moved.
- Burn Mode:** ATTENTION: Battery life less than 5 weeks. Sends its position every 10 minutes. Recommendation – only use this profile if you are looking for a lost device
- 1 Track / Day:** Sends its position once a day. Takes about one day to change the profile
- 1 Track / Week:** Sends its position once a week. Takes about one week to change the profile

We recommend the Live Tracking profile to protect property from theft.

COBBLESTONE GPS Tracker TECHNICAL DATA

Item no.	1732934
Battery life	4 years with 1 track per day – up to 10 years*
Dimensions	6.4 cm x 6.4 cm x 2.3 cm
Weight	88 g
GPS accuracy	2 – 30 metres**
Tracks	4,000 max. possible
Battery capacity	4.4 Ah
Rechargeable	No
SIM card	Yes – permanently integrated in the Tracker
Can be used in the following countries	EU, Norway and Switzerland
Operating environment	-30° to +80° Celsius
Humidity	10% – 70%
Housing material	Impact-resistant, waterproof, dustproof
Protection class	IP 67

* Battery life depends on usage and external factors such as transmission and temperature conditions.

** GPS accuracy is approximately 2-30 meters, depending on signal strength. If the Tracker does not receive a GPS signal, it will attempt to determine its location via the GSM (mobile phone) network. The accuracy also depends on the signal strength.

SCOPE OF SUPPLY:

- COBBLESTONE from Copenhagen Trackers
- Double-sided tape
- GPS Tracking info label
- Additional sticker with IMEI number
- COBBLESTONE data sheet in different languages