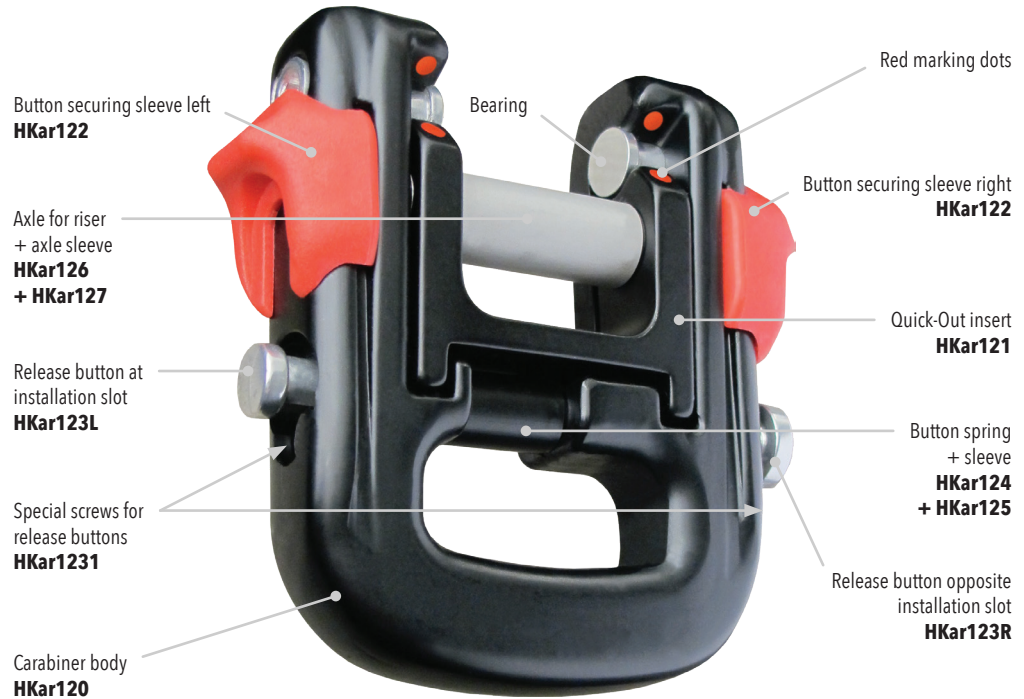


Instruction Manual

Quick-Out

Carabiner



Intended use

The Quick-Out carabiner is a connecting link that allows quick separation of straps while they are under load. It is suitable for safely attaching loads, especially people, and is designed for outdoor use.

Operating limitations

Breaking load: 4,000 DaN (1 DaN corresponds to approx. 1 kg)
Safe load: 2,000 DaN (individually tested to 2,000 DaN) / 400 DaN (under continuous vibration stress)

The Quick-Out carabiner has to be considered an integral part of the harness and must be installed by a technically trained person in accordance with the harness manufacturer's instructions using the current Quick-Out instruction manual (available at www.finsterwalder-charly.de). The Quick-Out carabiner is a safety component that requires regular maintenance. It must be cleaned after contact with aggressive media (e.g. seawater) or sand and dust, otherwise the release buttons may become jammed. There is a risk of freezing in wet conditions and at temperatures below freezing. If the buttons are blocked, the carabiner cannot be secured anymore. Improper securing of the carabiner is visually apparent. A replacement interval of 8 years from the date of commissioning is recommended.

Fields of application

The Quick-Out quick release carabiner has proven its worth especially in rescue operations and in paragliding. When used in paragliding, the main purpose of the Quick-Out carabiner is to disconnect the paraglider after an emergency parachute deployment, to prevent the canopies from interfering with each other during descent and to allow the use of steerable rescue systems. In the case of water or high wind landings, the Quick-Out allows the paraglider to be separated with the risers loaded. The use of the Quick-Out carabiner in hang gliding is not recommended, as the carabiner is not in the pilot's field of vision and it is not easy to check that the release buttons are properly engaged. The instructions provided by the manufacturer of the harness or reserve must be followed!

Installing the Quick-Out body on the harness

The Quick-Out body is attached to the carabiner loops of the operator's harness, the matching Quick-Out insert to the winch strap of the helicopter or to the paraglider riser. The use of the Quick-Out in conjunction with a speed system is only permitted with a system that automatically disconnects the speed system when the Quick-Out is released. Suitable separation systems are available from the Finsterwalder & Charly webshop.

As the overview illustration shows, the Quick-Out body must be attached to the harness in such a way that it is in the operator's field of vision, easily accessible and within reach of the hand from behind. There must be no obstruction to the Quick-Out insert swinging forwards. The carabiner must hang freely, in particular there must be no pressure on the button spring sleeve when it is released. To attach the Quick-Out housing to the harness, remove the release button at the installation slot using a Phillips screwdriver with a max. shank diameter of 5 mm as shown in Fig. 1. Do not remove the release button opposite the installation slot! The locking screws must be tightened firmly. When using the Quick-Out in a microlight, secure the screws with a removable threadlocking adhesive (e.g. Loctite 243). Make sure that the threadlocker does not get into the button channel. Some paragliding harnesses have loops that are sewn too tightly, making it impossible to install the Quick-Out body. Contact the harness manufacturer or ask us to recommend a service company that can make the necessary modifications to the harness.

Installing the Quick-Out insert

The Quick-Out insert is attached to the winch strap of the helicopter or to the paraglider riser. The straps can be between 25 and 29 mm wide and a maximum of 10 mm thick. Adapter sleeves (Art. HKar128) are required for narrower straps. Installation is carried out using a hexagon spanner as shown in Fig. 2. It is recommended to secure the axle thread with a removable threadlocker (e.g. Loctite 243). After installation on the harness, the Quick-Out carabiner must be tested for release. Check that the insert slides out without friction when the buttons are pressed, even under light loads. Reliable operation is only guaranteed when the Quick-Out hangs completely free and the insert does not rest on anything when the carabiner is released. When installing the Quick-Out insert on paraglider risers, make sure that the left and right

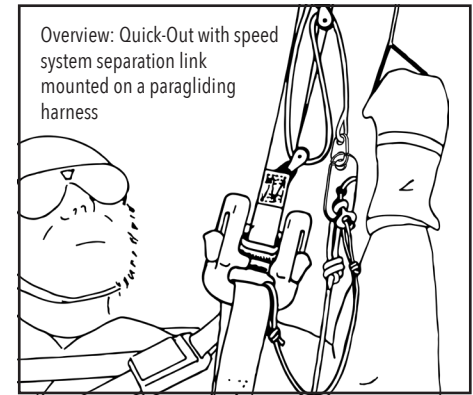


Fig. 3



risers are not twisted 180° after the Quick-Out body and insert are joined. **Please note:** Quick-Out inserts and bodies from different years of manufacture are not always compatible. The compatibility of a body with different inserts must therefore be checked. If necessary, the Quick-Out with the non-matching inserts must be returned to us for adaptation free of charge.

Joining the Quick-Out body and insert

1. Open the button securing sleeves.
2. Place the carabiner insert on the body bearings as shown in Fig. 3 so that the red marking dots on the body and insert are opposite each other.
3. Press the insert down until you hear it engage. If the insert does not engage by simply (forcefully) pressing it down, but only by simultaneously pressing the release buttons, this is an indication that the button channel has become sluggish due to icing or dirt and must be cleaned and lubricated (or the buttons have been interchanged). Use only acid-free oils or greases such as WÜRTH HHS Lube or KLÜBER Staburags NBU 12 K marine grease.
4. Push the button securing sleeves towards the release buttons as far as it will go.
5. Lock check: After securing, both button securing sleeves must be at the same height and the heads of both buttons must be above the button securing sleeves.

Icing and dirt

Due to heavy soiling, corrosion or icing, the Quick-Out buttons can become stuck in the depressed position. In this case, as shown in Fig. 4, the left-hand button securing sleeve can be pushed over the head of the smaller release button. This is not possible with the larger button. The button securing sleeves are therefore not at the same height, indicating that the carabiner is not locked.

Fig. 4



! DANGER !

The button securing sleeves are not at the same height.

Opening the Quick-Out connection

1. Unlock: Slide back both button securing sleeves. Never unlock both buttons at the same time in flight, unless the emergency reserve is already deployed.
2. Release the insert by fully depressing both release buttons simultaneously.

Interchanging the release buttons

On Quick-Out bodies with a stamp before September 2016, it is possible to mount the release buttons on opposite sides. The Quick-Out will then open unintentionally under load as soon as it is unlocked. To make it more difficult to remove the button opposite the installation slot on Quick-Out bodies with a stamp before September 2016, the cross slots of the corresponding screw have been drilled out and the screws of older Quick-Out carabiners without a stamp have been glued in place. If it is necessary to dismount this button, e.g. if it is blocked by dirt or corrosion, the Quick-Out must be sent to us for repair.

On Quick-Out housings with a stamp from September 2016 or later, it is not possible to interchange the buttons by design and both buttons can be removed for cleaning. However, it is essential to use the correct screw for each button, as the diameter of the screw head is adjusted at the factory to suit each carabiner housing and button. The function of the buttons is only guaranteed if original screws Art. HKar1231 with the correct head diameter are used.

Release blockage

If the Quick-Out does not disengage under load, despite pressing the release buttons on both sides, this may be due to the following reasons:

- The insert is prevented from tipping out.

- The axle on the insert is causing friction because it is not fully screwed in.
- In the event of an unfavourable coincidence of manufacturing tolerances, the insert is not compatible with the Quick-Out body.

For each combination of body and insert, check that the insert slides out of the body without any friction when the buttons are pressed.

Maintenance and care

Clean and grease the release buttons and the axle of the insert annually, monthly if used in salty air, weekly if in contact with fresh water, daily if in contact with salt water. This requires the removal of the axle and the release buttons. Use only acid-free oils or greases such as WÜRTH HHS Lube or KLÜBER Staburags NBU 12 K marine grease. The axle thread of the insert must be secured with Loctite. The button securing sleeves should open and close easily. If there is too much resistance, apply a little LIQUI MOLY Schmierfix 1080 to the guide grooves. If the button securing sleeves are too loose, they must be replaced. Lever them out and remove them with a screwdriver (or similar).

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Finsterwalder GmbH Charly Produkte

Pagodenburgstr. 8
81247 Munich
GERMANY

Phone +49 89 8116528

E-mail office@finsterwalder-charly.de

Website www.fensterwalder-charly.de

Webshop shop.fensterwalder-charly.de

find us on



The latest version of this instruction manual is available at:
www.fensterwalder-charly.de

