

PETZL DCL-GJ2024062701-1107

PETZL GRIGRI Belay Device User Manual

Model: DCL-GJ2024062701-1107

Brand: PETZL

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the PETZL GRIGRI Belay Device, often paired with the Sm'D TWIST-LOCK carabiner. The GRIGRI is a cam-assisted blocking device designed for belaying lead climbers and for top-roping. It offers progressive descent control and cam-assisted blocking for enhanced safety and comfort during climbing activities.

Always read and understand these instructions before using the equipment. Climbing is inherently dangerous, and proper training and adherence to safety guidelines are paramount.



Image 1.1: The PETZL GRIGRI Belay Device (left) and the Sm'D TWIST-LOCK Carabiner (right).

2. SAFETY INFORMATION AND WARNINGS

WARNING: Climbing and working at height are dangerous activities. You are responsible for your own actions and decisions. Before using this equipment, you must:

- Read and understand all instructions for use.
- Get specific training in its proper use.
- Become familiar with its capabilities and limitations.
- Understand and accept the risks involved.

Failure to heed any of these warnings may result in severe injury or death.

General Safety Guidelines:

- Always perform a thorough pre-climb check of all equipment.
- Ensure the rope is correctly installed in the GRIGRI according to the engraved diagram.
- Maintain control of the brake side of the rope at all times.
- Use only with ropes of appropriate diameter as specified by PETZL.
- Regularly inspect your equipment for wear, damage, or deformation. Retire damaged equipment immediately.
- Do not modify the device in any way.

3. SETUP AND COMPONENTS

The PETZL GRIGRI is designed for use with a single rope. It is often used in conjunction with a locking carabiner, such as the Sm'D TWIST-LOCK, to connect it to the harness.

3.1. PETZL GRIGRI Belay Device



Image 3.1: The PETZL GRIGRI belay device, showing the camming mechanism and rope installation diagram.

The GRIGRI features a cam-assisted blocking mechanism that pivots to pinch the rope when a load is applied, assisting in arresting a fall. The device has clear engravings indicating the correct direction for rope installation.

3.2. Sm'D TWIST-LOCK Carabiner



Image 3.2: The Sm'D TWIST-LOCK carabiner, featuring an automatic locking gate.

The Sm'D TWIST-LOCK carabiner is a lightweight, D-shaped carabiner with an automatic locking gate. Its D-shape ensures optimal load distribution and is functional regardless of orientation. The TWIST-LOCK mechanism provides secure, automatic locking, ideal for connecting the GRIGRI to your harness.

ERGONOMIC

H-shaped cross-section contributes to better grip when wearing gloves. Keylock system, to avoid any involuntary snagging of the carabiner. Keeper hole allows a TIBLOC or a MICRO TRAXION to be connected to the carabiner with a cord, helping prevent accidental gear dropping.

LIGHTWEIGHT PERFORMANCE

D-shape is functional regardless of orientation, meeting multiple uses: attachment of a belay system, a pulley, or on the end of a lanyard. Light enough for mountains, durable enough for the crag.

TWIST-LOCK

Automatic locking, optimal for connecting lanyards and connecting a GRIGRI to the harness.

KEYLOCK SYSTEM

Avoids any involuntary snagging of the carabiner.

KEEPER HOLE

Allows a TIBLOC or a MICRO TRAXION to be connected to the carabiner with a cord, helping prevent accidental gear dropping.



Image 3.3: Key features of the Sm'D TWIST-LOCK carabiner, including its ergonomic H-shaped cross-section, Keylock system, TWIST-LOCK mechanism, and keeper hole.

3.3. Initial Setup

1. Attach the GRIGRI to your belay loop using a locking carabiner (e.g., Sm'D TWIST-LOCK). Ensure the carabiner gate is fully closed and locked.
2. Open the side plate of the GRIGRI.
3. Insert the rope into the device, following the engraved diagram: the climber's side of the rope goes through the cam side, and the brake side of the rope exits through the handle side.
4. Close the side plate and ensure it is securely latched.
5. Perform a function test by pulling on the climber's side of the rope to ensure the cam engages and blocks the rope.

4. OPERATING INSTRUCTIONS

The GRIGRI is designed for belaying both lead and top-rope climbers. Always maintain control of the brake strand with your brake hand.

4.1. Belaying a Lead Climber

1. **Giving Slack:** To give slack, push the rope through the device with your guide hand while simultaneously pulling slack from the brake side with your brake hand. Keep your brake hand on the rope at all times.
2. **Taking in Slack:** Pull the brake side of the rope downwards with your brake hand while simultaneously pulling the climber's side of the rope upwards with your guide hand.
3. **Arresting a Fall:** When the climber falls, the cam-assisted blocking mechanism will engage. Immediately tighten your grip on the brake side of the rope and pull it downwards.



Image 4.1: Proper hand position for controlling the rope with the GRIGRI. Always maintain control of the brake strand.

4.2. Belaying a Top-Rope Climber

For top-roping, the process of taking in slack is similar to lead belaying. Ensure the rope is always taut and the climber is not sagging. The cam-assisted blocking will engage if the climber weights the rope or falls.

4.3. Lowering a Climber

1. Maintain a firm grip on the brake side of the rope.
2. Slowly pivot the handle to release the cam and allow the rope to feed through the device.
3. Control the descent speed by varying the pressure on the handle and the tension on the brake rope.
4. Never fully release the brake hand from the rope.

5. MAINTENANCE

5.1. Inspection

Before and after each use, inspect your GRIGRI and carabiner for:

- Cracks, deformation, or deep scratches on metal parts.
- Excessive wear, especially on areas where the rope runs.
- Proper functioning of the cam and handle mechanism (GRIGRI).
- Smooth operation and secure locking of the carabiner gate.
- Corrosion or signs of chemical damage.

Any equipment showing signs of damage or excessive wear must be immediately retired from service.

5.2. Cleaning and Storage

- Clean the device with fresh water and mild soap if necessary. Rinse thoroughly and allow to air dry away from direct sunlight or heat.
- Avoid contact with corrosive substances.
- Store in a cool, dry, dark place, away from chemicals, extreme temperatures, and sharp objects.

6. TROUBLESHOOTING

6.1. Rope Not Feeding Smoothly

Issue: Rope feels sticky or difficult to feed through the GRIGRI.

Possible Causes:

- Incorrect rope installation (check engraved diagram).
- Rope diameter is too large or too small for the device's specifications.
- Device is dirty or has accumulated grit.
- Excessive wear on the device's rope path.

Solution: Re-install rope correctly. Verify rope diameter. Clean the device. If wear is significant, retire the device.

6.2. Carabiner Gate Sticking

Issue: The TWIST-LOCK gate on the carabiner does not open or close smoothly.

Possible Causes:

- Dirt or debris in the locking mechanism.
- Minor deformation of the gate or sleeve.

Solution: Clean the carabiner, especially the gate and locking sleeve, with water and a brush. If the issue persists or there is visible deformation, retire the carabiner.

7. SPECIFICATIONS

Attribute	Value
Brand Name	PETZL
Model Number	DCL-GJ2024062701-1107
Color	Blue + Sm'D TWIST-LOCK

Attribute	Value
Size	One Size
Item Package Dimensions L x W x H	10.51 x 6.5 x 3.31 inches
Package Weight	0.32 Kilograms
Item Dimensions LxWxH	0.39 x 0.39 x 0.39 inches
Suggested Users	unisex
ASIN	B0CY12WJTT
Date First Available	March 13, 2024

8. WARRANTY AND SUPPORT

PETZL products are guaranteed for three years against any material or manufacturing defect. Exclusions: normal wear and tear, oxidation, modifications or alterations, incorrect storage, poor maintenance, damage due to accidents or negligence, or uses for which the product is not designed.

For further support, product registration, or to view the full warranty policy, please visit the official PETZL website or contact their customer service. You can also visit the [PETZL Store on Amazon](#) for more information.