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PETZL B084X1GBCM

PETZL Vulcan High-Strength Steel Carabiner Instruction Manual

Model: B084X1GBCM

1. INTRODUCTION

The PETZL Vulcan is a high-strength steel asymmetrical carabiner designed for demanding environments and for establishing multiple anchors. Its robust construction and design ensure reliability and safety in various applications, particularly in climbing and rescue operations.

This manual provides essential information for the safe and effective use of your PETZL Vulcan carabiner. Read and understand all instructions before use. Failure to follow these instructions can result in serious injury or death.



Figure 1: PETZL Vulcan Screw Lock Carabiner (Black). This image shows the overall design of the carabiner, highlighting its asymmetrical shape and the screw lock mechanism.

Key Features:

- **Extreme Durability:** Constructed from high-strength steel to withstand harsh environments and heavy use, offering a major axis strength of 45 kN.
- **Large Capacity:** The asymmetrical shape provides ample space for setting up multiple anchors or connecting bulky equipment.
- **Snag-Free Handling:** Features a fluid interior design and a Keylock nose (no hook) to prevent snagging on anchors, ropes, or harnesses.
- **Locking Options:** Available in SCREW-LOCK (manual with red indicator) or TRIACT-LOCK (automatic triple-action) to suit different safety protocols.
- **CAPTIV Compatible:** Can be used with the CAPTIV positioning bar (sold separately) to favor loading along the major axis and keep the carabiner integrated with the device.

2. SAFETY INFORMATION

WARNING: This product is personal protective equipment (PPE). Misuse can result in serious injury or death. It is essential to understand and follow all instructions for use. Training in proper techniques and safety precautions is required before using this equipment.

- Always inspect the carabiner before each use for any signs of damage, wear, or corrosion.
- Ensure the locking mechanism functions correctly and is fully engaged before relying on the carabiner.
- Never use a carabiner that is damaged, deformed, or shows excessive wear.
- Avoid cross-loading the carabiner. Always ensure the load is applied along the major axis.
- Do not expose the carabiner to chemicals, extreme temperatures, or other conditions that could compromise its strength.
- Regularly check the screw lock for proper function and ensure it is tightened securely.

3. SETUP AND PRE-USE INSPECTION

Before each use, perform a thorough inspection of your PETZL Vulcan carabiner.

1. **Visual Inspection:** Examine the entire carabiner for cracks, deformation, sharp edges, deep scratches, or corrosion. Pay close attention to the gate, hinge pin, and locking mechanism.
2. **Gate Function:** Open and close the gate several times. It should open smoothly and close automatically and completely when released.
3. **Locking Mechanism (SCREW-LOCK):**

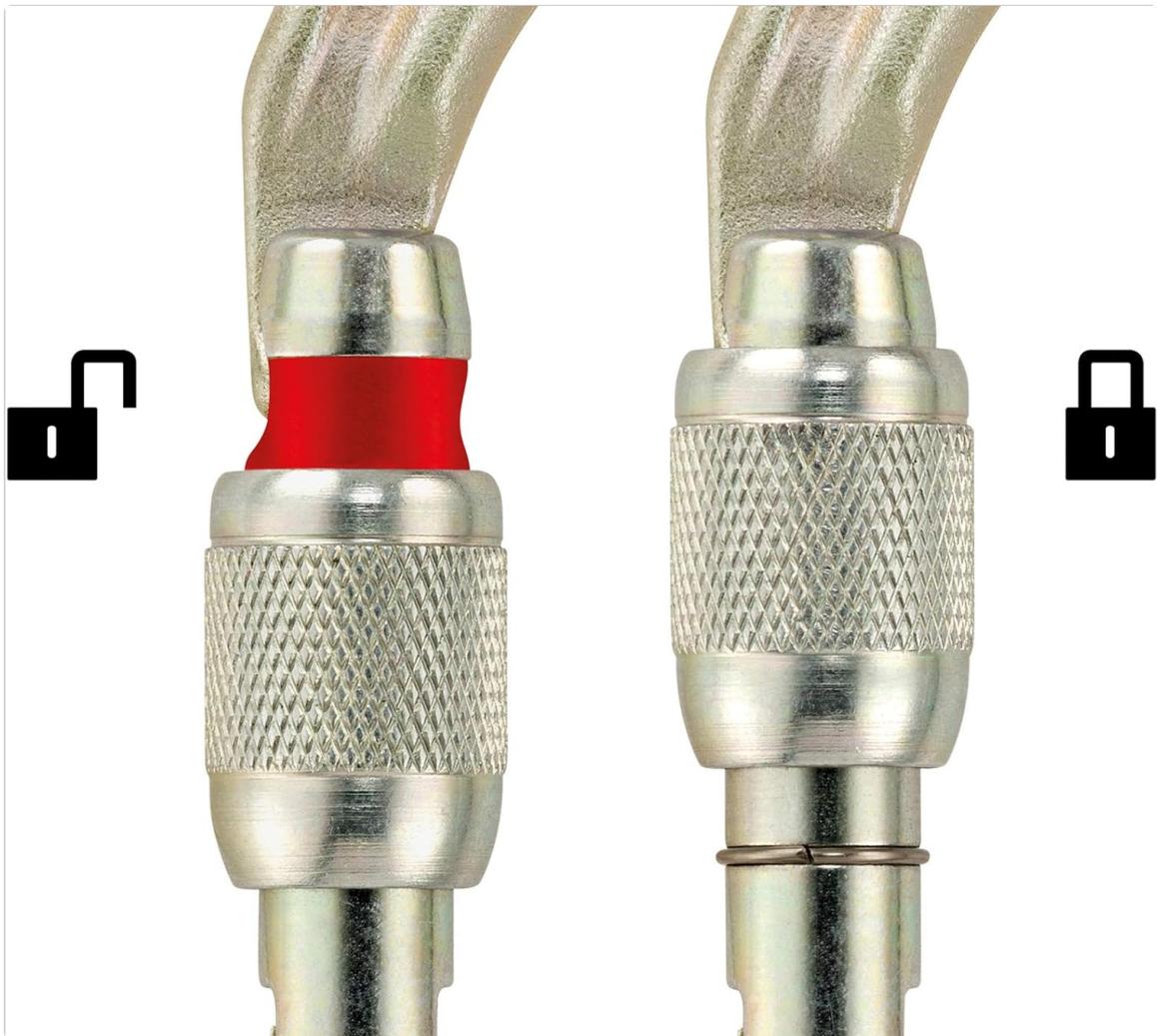


Figure 2: Screw Lock mechanism. The left side shows the unlocked state with a red indicator, while the right side shows the locked state with the indicator covered.

For SCREW-LOCK versions, ensure the screw sleeve moves freely and can be fully tightened to cover the red indicator (if present), indicating a locked state. When unlocked, the red indicator should be visible.

4. **Locking Mechanism (TRIACT-LOCK):** For TRIACT-LOCK versions (not the current model, but mentioned in product description), ensure the automatic locking mechanism engages correctly after the gate closes. This typically involves pushing up, twisting, and then opening the gate.
5. **Keylock System:** Verify that the Keylock nose is free of debris and allows for snag-free operation.
6. **Compatibility:** Ensure the carabiner is compatible with other equipment it will be used with (ropes, harnesses, anchors, etc.).

If any defects are found, or if you have any doubts about the carabiner's condition, retire it from service immediately.

4. OPERATING INSTRUCTIONS

Proper operation of the PETZL Vulcan carabiner is crucial for safety.

4.1. Opening and Closing the Gate

- To open the gate, push it inwards.
- To close the gate, release it. The gate should spring back to its closed position automatically.

4.2. Using the SCREW-LOCK Mechanism

1. **To Unlock:** Rotate the screw sleeve downwards (towards the gate opening) until the red indicator is fully visible. The gate can now be opened.
2. **To Lock:** After closing the gate, rotate the screw sleeve upwards (away from the gate opening) until it is fully tightened against the gate. The red indicator should be completely covered, indicating a secure lock. Always verify the lock is fully engaged before use.



Figure 3: Detail of the Screw Lock mechanism. This image illustrates the knurled screw sleeve in its locked position, securing the gate.

4.3. Proper Loading

- Always ensure the load is applied along the major axis of the carabiner (the longest dimension).
- Avoid cross-loading (loading across the gate or minor axis), as this significantly reduces the carabiner's strength.
- Ensure that ropes, slings, or other equipment are properly seated within the carabiner and do not interfere with the gate or locking mechanism.

4.4. CAPTIV Positioning Bar (Sold Separately)

The PETZL Vulcan is compatible with the CAPTIV positioning bar. This accessory helps to keep the carabiner integrated with a device and favors loading along the major axis, preventing accidental cross-loading. Refer to the CAPTIV bar's instructions for proper installation and use.

5. MAINTENANCE AND STORAGE

5.1. Cleaning

- Clean the carabiner with fresh water and a mild soap solution.
- Rinse thoroughly with clean water.
- Allow to air dry completely in a shaded, well-ventilated area.
- For the screw lock mechanism, a small amount of silicone-based lubricant can be applied if it becomes stiff, ensuring it does not interfere with the gate's closing action.

5.2. Storage

- Store the carabiner in a cool, dry, dark place, away from direct sunlight, chemicals, and extreme temperatures.
- Avoid storing with sharp objects or other equipment that could cause damage.

5.3. Periodic Inspection

In addition to pre-use inspections, a more thorough periodic inspection should be performed by a competent person at least every 12 months. This inspection should be documented.

6. TROUBLESHOOTING

- **Gate is Stiff or Sticky:** Clean the gate hinge area and the Keylock nose thoroughly. Apply a small amount of silicone lubricant if necessary. Ensure no dirt or debris is obstructing movement.
- **Screw Lock is Difficult to Turn:** Clean the threads of the screw lock mechanism. If corrosion is present, the carabiner should be retired. A small amount of lubricant can help if it's just stiff.
- **Red Indicator (SCREW-LOCK) is Visible When Locked:** The screw sleeve is not fully tightened. Ensure it is rotated completely upwards until it cannot turn further and the red indicator is fully covered. If it cannot be fully tightened, retire the carabiner.
- **Carabiner Shows Signs of Damage:** Any cracks, deep gouges, significant deformation, or excessive wear means the carabiner's strength may be compromised. Retire it immediately.

If you are unable to resolve an issue or have any doubts about the carabiner's safety, contact PETZL customer support or a qualified expert.

7. SPECIFICATIONS

Attribute	Value
Model	Vulcan (Screw Lock, Black)
ASIN	B084X1GBCM
Material	Alloy Steel
Color	Black
Lock Type	Screw Lock
Shape	D-Shape (Asymmetrical)
Major Axis Strength	45 kN
Item Weight	0.53 Pounds (approx. 240g)
Recommended Use	Climbing, Anchoring, Rescue

8. WARRANTY INFORMATION

The PETZL Vulcan carabiner comes with a **3 Year Manufacturer Warranty** against defects in materials or workmanship. This warranty does not cover normal wear and tear, modifications, improper storage, damage due to accidents, negligence, or use for which the product was not designed.

For warranty claims, please retain your proof of purchase and contact PETZL customer support.

9. SUPPORT AND CONTACT

For further assistance, technical questions, or to report an issue, please contact PETZL directly.

You can find more information and contact details by visiting the official PETZL store or website:

[Visit the PETZL Store on Amazon](#)

Always refer to the latest version of the technical notice available on the PETZL website for the most up-to-date information.