

Chris Fletcher - Independent Arborist and LOLER thorough examinations – 02/04/2024

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MFR	Karabiner marking	Karabiner cleaning	Karabiner lubrication	Link	Link
At Height	This equipment must not be marked, modified or repaired by the user. Note: This equipment is not user maintainable with the exception of the following: Cleaning or Lubrication.	If required clean with a mild household detergent and rinse in clean water. Thoroughly rinse and dry naturally in a warm ventilated room away from direct heat. Important: Cleaning is recommended after every use in a marine environment.	Lubricate the mechanism with suitable light oil .	Link	
Black Diamond	We do not warrant products which show normal wear and tear or that have been used or maintained improperly, modified or altered, or damaged in any manner.	After contact with saltwater or salt air, always rinse and dry textile products, and rinse, dry and lubricate metal products.	Nothing specified.	Link	
Camp	Do not remove or tamper with the product labelling. Remove the product from service if its entire history is unknown and/or if the records are illegible.	Cleaning of the metallic parts: rinse in clean water and then dry.	oil the gate mechanism with a silicon-based lubricant.	Link	
CT <i>Same as Skylotec</i>	Any alteration or tampering immediately voids the guarantee and it is forbidden, as it can compromise the safety of the device itself. Repairs, where feasible, must be carried out exclusively by the manufacturer or by a competent person expressly authorized by the manufacturer, in compliance with what is indicated in the inspection and/or maintenance procedures.	If necessary, clean any moving parts of metal devices with compressed air.	lubricate them by using exclusively silicone-based spray oil.	Link	
Delta Plus	The product should only be used as instructed and no alterations to it should be made.	Wash in warm water of domestic supply quality (maximum temperature 40 °C). Rinse and dry naturally in a warm room away from direct heat.	Lubricate the gate mechanism with a silicone-based lubricant. This should be carried out after cleaning.	Link	
DMM	This product must not be marked, modified or repaired by the user unless authorised by DMM. Do not mark or alter.	Wash in ≤30° C clean domestic grade water with liquid soap in the pH range 5.5 to 8.5 for 15 minutes.	Lubricate the mechanism with a suitable lubricating oil & lubricate the hinge, barrel of the gate, and pusher chamber with one or two drops of lubricant (Duck Oil, Super Lube, 3-in-1). Do not use graphite powder.	Link	Link
Edelrid		Clean contaminated products in hand warm water and rinse properly.	The joints of metal parts must be cleansed regularly and then be lubricated with acid free oil or a lubricant based on Teflon or silicon .	Link	
Harkie	Any modification, addition to, or repair of the equipment other than that authorized by Harkie is prohibited due to the risk of reducing the safety and effectiveness of the equipment.	Wash in warm water of domestic supply quality (maximum temperature 20oC) and dry naturally in a warm.	Lubricate the gate mechanism with a silicone-based lubricant. This should be carried out after clearing. Cleaning and lubrication are recommended after every use in marine environment.	Link	
Husqvarna	Do not repair or do modifications to the product.	Clean the product regularly. Use a soft cloth with water and soap.	Lubricate the gate mechanism with silicone lubricant or dry graphite .	Link	
ISC	No alterations or additions without manufacturer consent.	Max 40C water.	Use light oil .	Link	
Kong	It is absolutely forbidden to modify and/or repair this device.	Wash the device by hand in warm water (30-32°C) with neutral detergent (pH 5.5-8.5) and let it air dry, avoiding direct exposure to the sun and heat sources.	Lubricate the metal moving parts with silicone oil , avoiding contact with any textile parts.	Link	

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			Cleaning and lubricating the mobile parts periodically with a moderate amount of silicone oil is recommended.		
Maillon	Any modifications to a Quick Link (or assembly with other components) must be approved by the manufacturer.	Max 30C	In the case of contact with water, or after cleaning with water and air-drying the threads should be lightly oiled .	Link	
Notch	Do not repair or modify your product in any way unless specifically authorized in writing by the manufacturer.	If soiled, rinse in clean warm water (maximum temperature 25°C) with mild neutral detergent at appropriate dilution (pH range 5.5-8.5), thoroughly rinse.	Lubricate the gate mechanism with a silicone based lubricant or dry graphite.	Link	
Ocun	The manufacturer and the seller are not liable for any damage or other negative consequences caused by incorrect use, or use of a product that was modified or repaired by persons not specifically authorized by the manufacturer.	Use clean water and a soft cloth to clean the product.	Periodically lubricate the connector locking system so that it is always fully functional We recommend lightly lubricating the moving parts of the carabiner with silicone oil (avoid contact of the lubricant with textile parts).	Link	
Petzl	Modifications and repair of Petzl products outside of Petzl facilities is prohibited, except for replacing worn parts with replacement parts referenced in Petzl catalogues. Retire if You do not know its full usage history (e.g. an illegible product marking). Engraving a carabiner or other metal equipment is not recommended as this is a modification of the product that can weaken it.	Wash your gear in lukewarm soapy water (ph. neutral, 30 °C maximum), then rinse thoroughly with fresh tap water. Do not use acid or harsh cleaners. Do not use WD 40 type degreasers as these products remove lubricants and their abrasive effect can accelerate wear. Certain metal gear also has plastic parts. Use only household face and body soap. All other cleaning products, for example solvents, stain removers, degreasers, etc. are too strong and not compatible with plastic materials. Do not use a high-pressure water sprayer. A high-pressure spray will dry out the gate hinge.	If lubricating is necessary lubricate only with fluid oils (machine oil) or graphite powder . After lubricating, clean oil residue with a cloth to avoid getting oil on slings or ropes. Do not use WD 40 as it can dry out the hinge and spring, thus accelerating aging. Lubricate the hinge to restore spring action.	Link	Link
Rock Empire	Do not alter the product in any way, its function or integrity might be compromised. Keep the product label legible throughout its use.	No special user maintenance is required. Just cleaning and lubrication are needed. Rinse the soiled product in lukewarm fresh water. Let dry outside the reach of direct heat sources.	Use silicone-based oils for the moving part lubrication. Prevent contact of the lubrication oil with the textile parts of the product.	Link	
Rock Exotica	Repairs or modifications to equipment are only allowed by the manufacturer or those authorized in writing by the manufacturer.	Clean, if necessary, with fresh water, then dry, or allow to dry away from direct heat.	A light lubricant may be applied.	Link	

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Singing Rock	This information can be engraved on different places depending on the size of the connector. CHECK the legibility of this marking after each use.	Clean the connectors with soft water and dry it with a non-abrasive cloth.	LUBRICATE the mobile components with a specific silicone-based lubricant.	Link	
Skylotec <i>Same as CT</i>	Any alteration or tampering immediately voids the guarantee and it is forbidden, as it can compromise the safety of the device itself. Repairs, where feasible, must be carried out exclusively by the manufacturer or by a competent person expressly authorized by the manufacturer, in compliance with what is indicated in the inspection and/or maintenance procedures.	If necessary, clean any moving parts of metal devices with compressed air.	lubricate them by using exclusively silicone-based spray oil.	Link	
Stein <i>OEM ISC</i>	Stein say to refer to ISC			No Link	
Treehog <i>OEM Yoke</i>	“Secondary marking – yes by pen”.	If soiled, rinse in clean water (maximum temperature 40°C) with mild neutral detergent. When the equipment becomes wet, either from being in use or when due to cleaning, it shall be allowed to dry naturally, and shall be kept away from direct heat.	Lubricate mobile parts (e.g. spring and rivet) with a silicone-based lubricant only. This should be carried out after cleaning and drying.	No Link	
Wild Country		Clean the products in dirt-free, lukewarm water, leave to dry at room temperature.	Lubricate the moving parts if necessary.	Link	

3.11.9 Equipment alterations and/or modifications

Alterations and/or modifications should only be carried out by the manufacturer or by a competent person with the consent of the manufacturer or the manufacturer’s chosen representative.

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