



USER INSTRUCTIONS

Lyon Four Point Basket Stretcher Lifting Bridle - Wire

Code

LBSKT_BRW

lyon.co.uk/user-instructions



For more detailed user information and to download a PDF copy of these instructions follow the link above or scan the QR code with your smart phone

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UI_LBSKT_BRW_19318

This information to be read and kept for the lifetime of the product in conjunction with the component user instructions, Lyon general user instructions and stretcher user instructions.

All users must have appropriate training, knowledge and experience of casualty care and work and rescue at height, or be working under the direct supervision of such a person.

Note. In these instructions the Four Point Basket Stretcher Lifting Bridle – Wire is referred to as ‘the bridle’.

Working Load Limit (WLL)
(4-point lift)

272kg

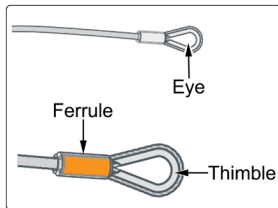
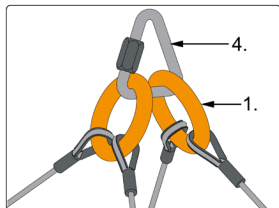
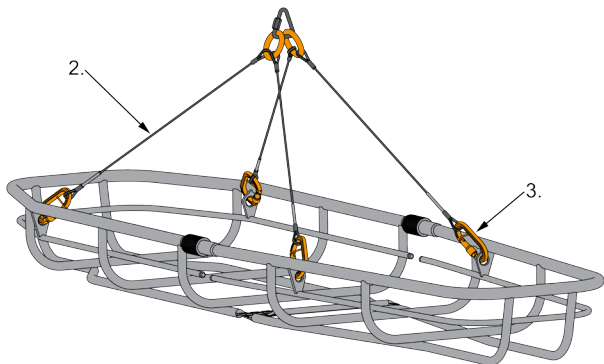
Certification

CE, Machinery Directive 2006/42/EC

Static test co-efficient 1.5 (proof loaded to 408kg)

Nomenclature of parts

- | | |
|--------------------|-------------------|
| 1. Suspension ring | 3. Connector |
| 2. Wire leg | 4. Maillon Rapide |



Limitations

The bridle has passed manufacturer's test requirements with a test mass equivalent to the intended combined load (casualty + stretcher + medical equipment) of 272kg. When working with loads of over 100kg, take care not to exceed the load bearing capacity of other components in the system.

This bridle is manufactured to connect to basket stretchers with attachment points configured as shown in figure on right of this page.

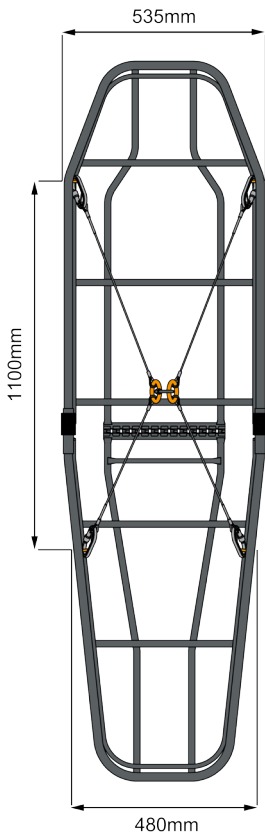
Connection to stretchers with differently configured attachment points will alter the stretcher suspension angle (head up/head down) and height of the bridle suspension point. In extreme cases, the vector forces created by the bridle leg angle may overload components. It is the user's responsibility to check compatibility before placing the bridle into service.

Use

This bridle is for rescue and rescue training purposes only.

It is designed solely to connect and orientate horizontally a compatible basket stretcher to a lifting system within the guidance set out in these instructions and by trained and competent users. All other uses are forbidden without the written approval of Lyon Equipment Ltd.

The bridle must not be used in a fall arrest system



Planning a rescue

Taking into consideration the casualty's injuries and the intended extraction system, assess whether this bridle is suitable for the particular application.

Before commencing the rescue, a plan must be in place as to how to deal with any emergencies which may arise during the rescue.

The time that a casualty is held in the stretcher must be kept as short as possible to minimise risks to respiration and circulation (suspension intolerance).

Securing the bridle to the stretcher

Before securing the bridle to the stretcher, consider any medical conditions and take care to ensure the casualty is not further injured by poor fitting, trapping parts of the body, or by displacement of the bridle during the rescue. Do not allow the bridle or any components to come into contact with any open wounds. Ensure that the bridle is not allowed to drop onto the casualty during the rescue.

The bridle consists of two assemblies, each consisting of a suspension ring (marked A and B) with two wire legs permanently fitted. Each wire leg has a captive screw gate connector fitted.

A Maillon Rapide is also supplied which may be used for connection to the rope rescue system.

The wire legs are colour coded:
Red = head end connection
Blue = foot end connection

Take one assembly and connect each of the wire legs to its respective designated connection point on a single side of the stretcher using the captive connectors and screw shut.

Take the second assembly and connect each of the wire legs to its respective designated attachment point on the opposite side of the stretcher using the captive connectors and screw shut.

Connectors must always be attached with the gate facing the bed of the stretcher. Gate outwards = Danger.

Bring both suspension rings together and check that the two assemblies are not twisted or crossed over, and that all the connections are secure with locking mechanisms screwed shut.

It is essential to regularly check all fastening elements during use.

Lifting or suspension of the casualty package

Rope rescue system anchors must be unquestionably reliable, situated above the user and of sufficient strength for the anticipated load. Ensure all other components in the system are compatible and of sufficient strength.

All connections to the rope rescue system must be made via BOTH suspension rings, A+B, using the Maillon Rapide supplied or by other suitable locking connector(s) or by tying in directly.

Ensure the connector(s) selected have

sufficient gate opening clearance and volume to accommodate **BOTH** rings.

The four wire legs of the bridle must all be connected to the appropriate, designated lifting points on the stretcher using the captive connectors fitted to them. Care should be taken to verify that the connector's locking mechanism is securely closed with the gate screwed shut.

ONLY LIFT/SUSPEND WITH ALL FOUR POINTS CONNECTED TO THE STRETCHER

When supporting a suspended load, all four wire legs of the bridle should be equally loaded.

If at any stage the casualty shows signs of distress or injury from the use of this bridle and stretcher, cease use immediately and review its suitability.

Single point connection

In certain operations, e.g. helicopter winching, the rescue system terminal connector(s) may not physically accommodate both suspension rings at the same time.

To allow an alternative, single point connection, a triangular Maillon Rapide is provided pre-fitted into both suspension rings. This Maillon Rapide is suitable for multi-directional loadings. When used, the Maillon Rapide screw sleeve must be fully closed, tight and with no threads showing. If the screw sleeve is opened and closed at any time the screw sleeve should be tightened to 9 N.m.

Training in the use of this bridle

It is essential that all potential users receive training in the use of this bridle.

This bridle is only for use as the sole means of suspension in a rescue situation.

If training with live casualties, the use of a back-up safety system (including an additional fall arrest harness) is strongly recommended.

Inspection

The bridle should be subject to:

- Pre-use checks
- Thorough inspections
- Interim inspections (as appropriate)

The bridle and all components should be checked.

Check for correct operation and legibility of markings of all components.

The checks should be undertaken in good light. Any item showing any defect should be withdrawn from service immediately.

Do not disassemble any part of the bridle. Contact Lyon Equipment for servicing and spares.

The bridle must be thoroughly inspected every five years by the manufacturer.

Remove from service and destroy any product which fails inspection or has arrested a fall.

Metal items – Suspension rings, connectors, wire legs, Maillon Rapides

Check all metal items for any signs of wear, corrosion, deformity or defect.

Connectors/Maillon Rapides should be inspected in accordance with the connector/Maillon Rapide user instructions.

Check the wire legs and ferrules by visual inspection for any signs of corrosion, permanent deformation or other damage. There should be no broken strands or kinks in the wire.

The ferrules should be tight with no movement of the wire within the ferrule; the tail of the wire exiting the ferrule should either be flush with the end of the ferrule or protrude no more than 2mm. There should be no cracks in the ferrules. There should be no deformation of the thimbles.

Chemicals

Avoid all contact with chemical reagents that could affect the performance of the bridle e.g. acids, caustic substances and oxidising agents. Discard this product immediately if contamination is even suspected to have occurred.

Temperature

Always keep metal items at temperatures between -20°C and +60°C.

Materials

The suspension rings and connectors are aluminium alloy.

The Maillon Rapides are zinc plated steel.

The wire legs and thimbles are stainless steel.

The ferrules are copper alloy.

Obsolescence

Metal items have a potentially indefinite lifespan if stored correctly.

Maintaining your equipment

Wash in clean water not exceeding 30°C with pure soap and rinse in clean cold water. Do not use chemical products, solvents or detergents – these should be regarded as harmful.

Due to the difficulties in effectively disinfecting equipment, we recommend that any contaminated equipment should be withdrawn from use and disposed of in a suitable manner.

Equipment must be clean and dry before storing. Always allow to dry naturally, away from direct heat. Equipment should be stored in a cool, dry, well ventilated area, away from excessive heat, high humidity, sharp edges, corrosives, sunlight or other sources of ultraviolet light (UV) and other possible causes of damage.

During transport, this product should be protected from abrasion, mechanical damage, chemical contamination, UV and heat.





If contaminated with biohazard, dispose of immediately.

Note to resellers

If this product is re-sold outside of the UK and Eire, but within the EU, the reseller is responsible for providing instructions of use, maintenance, periodic examination and for repair in the language of the country in which the product is to be used. Such instructions must be marked 'Translation of original instructions'.

End of document.

Markings

	Manufacturer's logo
	Refer to user instructions
www.lyon.co.uk	Manufacturer's web address
	CE mark (Machinery Directive)
2006/42/EC	Machinery Directive
WLL A + B = 272 kg	Working Load Limit (kg)
idN (Serial Number)	Individual serial number will be in a four digit format, 1234, referring to the number in the series.
LBSKT_BRW	Product code
 mm-yyyy	Month and date of manufacture. The first two digits give the month of manufacture, the last four give the year
Additional Information for use	LIFT FROM BOTH RINGS

Lyon Product Inspection Record					
Product code	Product description	Year of manufacture	Purchase date		
Length if applicable	Individual serial number	Date of first use	Certificate of conformity number		
Manufacturer Lyon Equipment Ltd.	Address Unit 3-7 Tebov Business Park Old Tebov Penrth CA10 3SS UK	Tel: +44 (0) 15396 2 4040 Fax: +44 (0) 15396 2 6330 info@lyon.co.uk lyon.co.uk		Other relevant information	
Record of inspection and repair					
Date	Comments	Name and signature of competent inspector	Next due date		

All user instructions supplied with this product must be kept as part of the product inspection record



General user instructions

Lyon Equipment Limited
Units 3-7, Tebay Business Park,
Old Tebay,
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Cumbria, United Kingdom,
CA10 3SS

Tel: +44 (0) 15396 24040
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lyon.co.uk/user-instructions

For more detailed user
information and to
download a PDF copy of
these instructions and a
Declaration of Conformity
follow the link above or
scan the QR code with
your smart phone



Notified body controlling manufacture (where applicable)

Where items of Personal Protective Equipment require an EU type examination in accordance with Personal Protective Equipment (EU) Regulation 2016/425, the body controlling the manufacture is: Notified body No. 0598 SGS Fimko Oy, P.O. Box 30 (Särkiniementie 3), 00211 HELSINKI, Finland.

WARNING

Make sure that you have read and understood these instructions before using this equipment. These user instructions are to be read and kept along with any other user information provided.

Activities at height are hazardous and may lead to injury or death. It is the user's responsibility, at all times, to ensure that they understand the correct use of any equipment supplied by or through Lyon Equipment, use it only for the purposes for which it is designed, and practice proper safety procedures including having a rescue plan in case of emergency.

This product must not be used outside its limitations, or for any purpose other than those described in the user instructions. Misuses forbidden in these instructions are examples only; many other misuses may exist which could lead to injury or death.

Do not use combinations of items of equipment in which the safe function of any one item is affected or interferes with the safe function of another.

Please note, the information in these user instructions is not exhaustive, and is not a substitute for comprehensive instruction and training by a competent person.

Lyon Equipment is not responsible for any consequences, whether direct, indirect or accidental, resulting from the use of its products. If you are unsure about the correct use of this product, please contact us.

Who can use this equipment

This equipment should only be used by trained, competent and responsible persons, or the user should be under the direct supervision of a trained, competent and responsible person.

Activities at height should not be undertaken by persons affected by alcohol or drug dependence, diabetes, epilepsy, fits, blackouts, fear of heights, vertigo / dizziness / difficulty with balance, heart disease / chest pain, high or low blood pressure, impaired limb function, obesity, psychiatric illness, musculoskeletal issues, e.g. a bad back.

General instructions for use

Equipment must be checked before each use, to ensure it is serviceable and operates correctly. Checks should also be carried out during use. In addition, a thorough inspection by a competent inspector should be carried out in strict accordance with these user instructions, and a record kept of these inspections.

This product may be used with any compatible item of equipment, keeping in mind the limitations of each item in the safety chain. It should be noted that a full body harness is the only type of harness which may be used in a fall arrest system.

The anchor device or anchor point is of primary importance and should be unquestionably reliable. It should be strong enough to withstand the foreseeable maximum load that could be applied e.g. in the event of a fall.

When selecting an anchor, the anticipated directions of loading and potential loads should be taken into account.

Anchors should be selected and positioned to allow work to be carried out in such a way as to minimise the potential for a fall and potential fall distance, for example by keeping the anchor point / device above the user.

Anchors should not have sharp or rough edges which could damage equipment (use edge protection if necessary).

On each occasion of use, verify the free space required beneath the user in order to avoid an impact. Always try to place protection so that any fall will be stopped before the user hits the ground or any other obstruction. Remember to allow for rope stretch and slippage in the belay device or rope ascender / descender. In a fall arrest situation, the user must be protected from dynamic forces of greater than 6 kN in the event of a fall, e.g. by use of a fall arrest system incorporating an EN 355 energy absorber.

Maintaining your equipment

Wash in clean water not exceeding 30°C with pure soap and rinse in clean cold water. Do not use chemical products, solvents or detergents – these should be regarded as harmful.

Due to the difficulties in effectively disinfecting equipment, we recommend that any contaminated equipment should be withdrawn from use and disposed of in a suitable manner.

Equipment must be clean and dry before storing. Always allow to dry naturally, away from direct heat. Equipment should be stored in a cool, dry, well-ventilated area, away from excessive heat, high humidity, sharp edges, corrosives, sunlight or other sources of ultraviolet light (UV) and other possible causes of damage.

During transport, this product should be protected from abrasion, mechanical damage, chemical contamination, UV and heat.

Textiles

Always keep textile items at temperatures between -30°C and +50°C.

Metal items

Always keep metal items at temperatures between -20°C and +60°C.

No alterations, additions or repairs may be made to this product without the manufacturer's prior written consent; if done, the repair must be carried out by a competent person for repair authorised by Lyon Equipment to make the repair; and in accordance with specified procedures.

These instructions must be strictly adhered to.

Inspection

A thorough inspection should be carried out at least every 6 months by a competent inspector in accordance with these user instructions. A record of these checks should be kept with the product along with these user instructions. In addition, interim inspections should be carried out where products are used intensively, or in particularly harsh environments where damage is more likely to occur, or where legislation or the type of equipment make it necessary.

Pre-use and thorough inspections are essential because the user's level of protection depends on the continuing correct performance of this product.

PPE (Personal Protective Equipment) inspection training is available from Lyon Equipment.

Lifetime, and when to withdraw your equipment from use

Withdraw your equipment from use if any one of the following applies:

- It shows sign of wear and tear / damage that may affect performance
- Markings on the product are no longer legible
- You suspect it may have been exposed to chemical contamination or extreme temperatures
- It fails a periodic examination
- It has been used to arrest a fall or has been excessively loaded
- It is more than 10 years after the date of manufacture (textile items or items with textile components). Metal items have a potentially indefinite lifespan if stored correctly.
- If you have any reason to doubt that it is safe to use.

It is the responsibility of the competent inspector to decide whether the equipment should be put back into use, or permanently withdrawn from use. Equipment permanently withdrawn from use must be destroyed, and should be recycled where facilities exist.

Certain environmental elements will considerably accelerate wear: salt, sand, dust, snow, ice, moisture, chemicals, sunlight (UV radiation) – list not exhaustive.

Warning: the safe working life of this product may be as short as its first use in extreme circumstances.

If in doubt, do not hesitate to scrap this product.

Guarantee

In the event of any defect in materials or workmanship please return the product to the dealer, distributor or manufacturer within 3 years of purchase for inspection. We will replace or repair as required. This guarantee does not cover normal wear and tear or accidental damage.

Note to resellers

If the product is re-sold outside the UK and Eire, but within the EU, the reseller is responsible for providing instructions for use, maintenance, periodic examination and for repair in the language of the country in which the product is to be used.

If you require the Intrastat commodity code / customs tariff code or NATO stock number (where applicable) for this product, please contact us via lyon.co.uk

Inspection records









A record must be kept for each component, subsystem and system, including name and contact details of the manufacturer or supplier, product description, serial number, year of manufacture, date of purchase, date of first use, any other relevant information, and history of periodic examinations and repairs, the name and signature of

the competent inspector and the next due date for inspection. An example of a suitable equipment record is shown on this user instruction and can also be downloaded at lyon.co.uk

Local jurisdiction may dictate that extra information be recorded in the inspection record – check your country's legal requirements. Some products may have features which need special monitoring during periodic inspections, e.g. wear indicators, in which case this information should also be recorded on the inspection record.

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Explanation of symbols

	Refer to user instructions
	Permitted use
	Caution
	Danger of death
	Telephone number
	Anchor point
	Rope diameter
	Cable
	SWL (Safe Working Load)

Lyon Product Inspection Record

Product code	Product description	Year of manufacture	Purchase date
Length if applicable	Individual serial number	Date of first use	Certificate of conformity number
Manufacturer Lyon Equipment Ltd.	Address Unit 3-7 Teboay Business Park Old Teboay Penrith CA10 3SS UK	<p> Tel: +44 (0) 15396 24040 Fax: +44 (0) 15396 26330 info@lyon.co.uk lyon.co.uk </p>	Other relevant information

Record of inspection and repair

Date	Comments	Name and signature of competent inspector	Next due date

All user instructions supplied with this product must be kept as part of the product inspection record