

SPARK

EQUESTRIAN AIR BAG
SPARK MANEGE
USER'S GUIDE
NF S72-800:2022

*Read carefully before use *Suitable for 30kg and up

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1. ABOUT THE SPARK AIR VEST



The SPARK Air vest uses an advanced safety technology developed for motor vehicles.

In case of fall, the vest is inflated by a CO2 cartridge



The SPARK Air Vest is a lightweight safety system designed to protect riders during a fall.



The SPARK Air bag must be used only for equestrians, and has an adjustable belt.



The SPARK Air Vest is certified by Alienor Certification (2754), 21 rue Albert Einstein, 86100 Châtellerault, France.

The product conforms to EU 2016/425 regulations standard and is certified by expert assessment to be in compliance with NF S72-800:2022.

Visit

<https://smartrider.co.il/declaration-of-conformity-spark-manege/>
for the declaration of conformity.



To ensure safe and effective use of the product, please read these instructions thoroughly before using the SPARK Air Vest.

Any contamination, alteration or misuse of the protector, can dangerously reduce the performance of the protector.

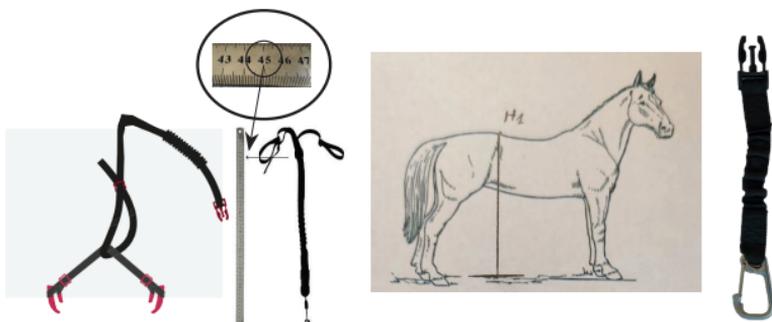
2.1 SAFETY INFORMATION GENERAL

- The SPARK Air Vest offers special protection and supreme comfort, but be aware that no safety vest can guarantee full and complete protection – therefore, we recommend combining airbag products with a body protector certified with EN 13158 when refer to equestrian.
- The SPARK Air Vest is to be used for equestrians, no other purpose
- The jacket must be properly fitted to provide protection to the rider
- The SPARK Air Vest only provides protection in its inflated state
- Keep the inflatable area clear of other objects, like bags or accessories, that could prevent the proper functioning of the device and compromise the protection it provides
- Do not make any modifications or take apart any of the components in the vest, Except as required to reassemble.
- Remove sharp or pointed objects (including pins and pens) from the jacket before wearing
- Keep away from open flame, including lit cigarettes
- Visually inspect the jacket before use to ensure there is no damage
- The Air Vest should be inspected by authorized distributor after every impact event Or after 10 inflations.
- Bring to an authorized distributor for a maintenance check once a year, even if the Air Vest has had fewer than 10 inflations
- The SPARK Air Vest has a lifetime of 5 years from the production date attached to each vest
- The SPARK Air Vest has a 1 year warranty for material and workmanship
- The SPARK Air Vest and SPARK cartridges, should be stored and used below 45°C and above 0°C.
- Before riding, the user must attach the SPARK Air Vest's operation strap on the saddle to the stirrup bars and connect it with the buckle to the key ball operation system.
- Please adjust the operation strap as tight as possible while still allowing free movement.

- The tensioned strap must not exceed 45 cm .

If you choose to use the fastening strap with the metal hook, we recommend the short one for sizes XXS and XS and the standard one for the other sizes.

Please make sure that the short strap does not restrict your freedom of movement!



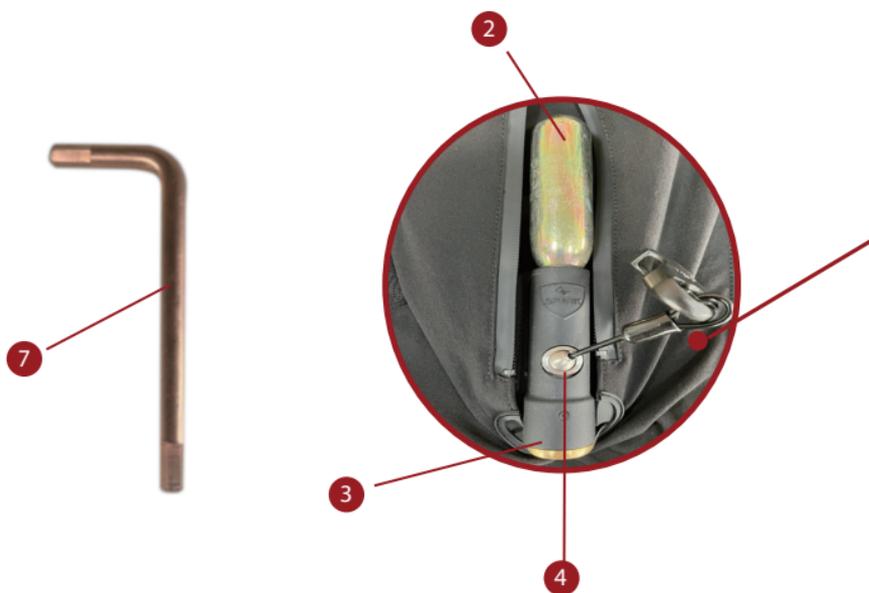
2.2 SAFETY INFORMATION

KEY BOX

- The SPARK CO2 cartridge cannot be reused - once it has deployed, it will no longer inflate the Air Vest and provide protection
- If there is a hole in the SPARK CO2 cartridge, it is unusable and must be replaced
- If there are any signs of corrosion on the SPARK cartridge, replace it immediately
- SPARK cartridges are hazardous materials .
- Please replace spare parts only with original SPARK parts, purchased from confirmed SPARK distributor.
- Transportation and storage of the SPARK vest will be on a hanger. Don't fold it and don't roll it .
- The noise generated by the operation system, could disturb or even frighten the horse.
- The min. horse height, H1 should be 120 cm.
- Gas cylinders are dangerous goods, they should be kept Out of the reach of children and used with care.

3.1 JACKET DETAILS BEFORE INFLATION

- 1 INTERIOR POCKET CONTAINING THE CO2 CARTRIDGE
- 2 CARTRIDGE
- 3 KEY BOX
- 4 KEY BALL
- 5 OPERATION STRAP
- 6 ELASTIC ADJUSTABLE STRAP
- 7 RE-ASSEMBLING TOOL





3.2 JACKET DETAILS AFTER INFLATION

In the event of a fall, the key ball is pulled out, which causes the SPARK cartridge to instantly inflate the airbag. Inflated cushioning is strategically placed in five areas to provide protection to the neck, chest, and back.

- 1 BLOWN-UP COLLAR FLAP
- 2 TWO BACK CUSHIONS
- 3 HIP CUSHIONS
- 4 SIDE CUSHIONS
- 5 CHEST CUSHIONS



4. HOW IT WORKS

Before riding, the user attaches the SPARK Air Vest's operation strap to the saddle. If the rider falls or is thrown from the horse, the operation strap pulls the key ball from its key box. When activated, the key box punctures the seal on the SPARK CO2 cartridge. The released gas then inflates the air cushions within the vest, creating a protective buffer for the user and providing some shock absorption.

The key ball requires considerable strength to be pulled out. This ensures that the Air Vest does not inflate in the course of normal riding, including standing on pegs.

Riders can disconnect their Air Vest from the saddle quickly thanks to its One-Click Release feature.

5.1 REASSEMBLING YOUR AIR VEST JACKET

OVERVIEW :

- 1 Set a key ball in the key box, using the tools supplied with the Air Vest
- 2 Unscrew and remove the used CO2 Cartridge
- 3 Make sure the air cushion has deflated
- 4 Install a new SPARK CO2 cartridge
- 5 Put the cover back on the key box

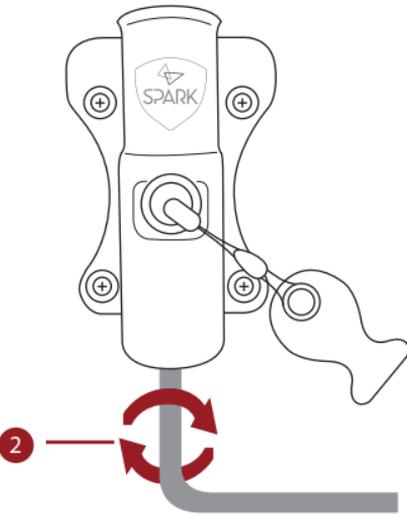
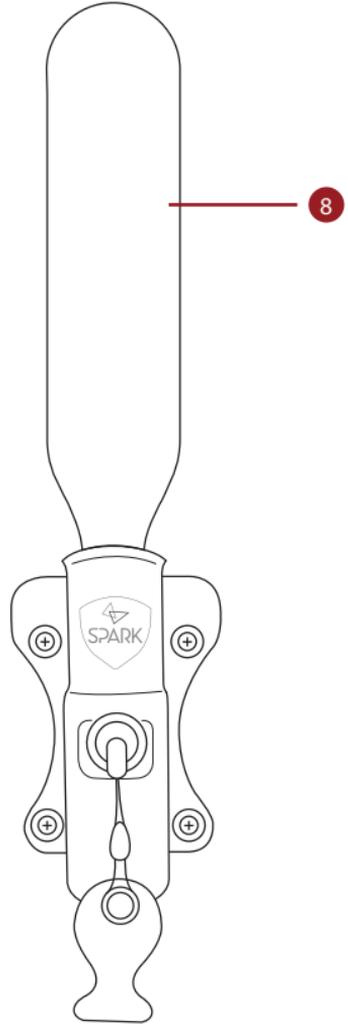
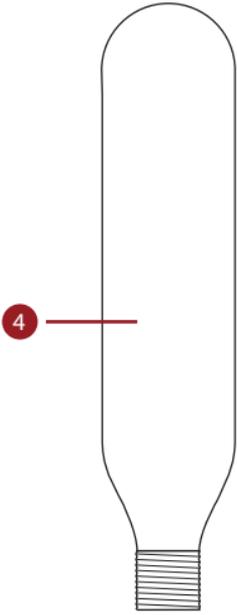
Before your screw or unscrew the bottom cupper , please insert the hexagon wrench till the stopper and hold it in position.



5.2 REASSEMBLING YOUR AIR VEST JACKET

DETAILED STEPS :

- 1 Get the hexagon wrench, and an unused SPARK CO2 cartridge of the appropriate size.
If you're not sure of the right size, check the size table or consult an authorized dealer.
- 2 Insert the Hexagon wrench into the bottom of the key box. Release the metal bottom cover.
- 3 Set the key ball into the hole of the key box. If it does not fit, you may need to loosen or tighten the Bottom cover using the hexagonal wrench
- 4 Unscrew and remove the used SPARK cartridge.
- 5 Make sure the air cushion has completely deflated. Spread the jacket face-down on a flat surface and press down on each cushion to remove all the gas. To avoid damaging the product, do not roll up or fold the jacket.
- 6 Verify that the key ball is set properly and the bottom cover is well tight.
- 7 Remove the Hexagon wrench from the key box.
- 8 Install a new, unused SPARK CO2 cartridge in the key box. Screw it in tightly but be sure not to over-tighten.
- 9 Replace all air cushions and fasten them in place.
- 10 Slide the One-Click Connector through the hole of the key box cover and close the cover.



6. FITTING YOUR AIR VEST JACKET

To ensure proper use and full protection, the Air Vest must be fitted properly.

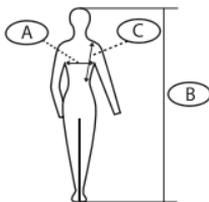
Using a tape measure, the Chest is measured in a horizontal line under the arms, the Waist horizontal line above the pelvic bones, and Back Length measured on the back vertical line from waist line to shoulder line.

When worn correctly, the Air Vest should be long enough to provide protection to the hips once deployed but should not be long enough to touch the saddle while riding.

The Air Vest is to be worn as outerwear. As such, it must be able to fit comfortably over your riding clothes.

SIZE CHARTS

SIZE	XXS	XS	S	M	L	XL	XXL	XXXL
A Chest	70	75	80	85	90	95	100	105
B Height	125-140	140-155	155-165	165-170	170-180	180-195	170-180	180-195
C Back Length	26	28	30	33	35	37	37	39
CO2 Cartridge	33g	33g	38g	38g	45g	45g	74g	74g



7. CARE INSTRUCTIONS

To ensure the longevity and effectiveness of the product, follow these care instructions carefully.

7.1 CLEANING THE AIR VEST JACKET

Do not wash or launder the SPARK Jacket or the all-in- one air bag.

Do not submerge in water

If the Air Vest gets wet, dry it in the shade.

To remove stains: wipe with a wet towel or hang the air vest and spray water on its surface, taking care not to get the key box wet.



Do not wash



Do not bleach



Do not dry



Do not iron



Do not dry clean

7.2 STORING THE AIR VEST JACKET

Avoid high temperatures, including direct sunlight or leaving the Air Vest in a hot vehicle.

Keep out of rain or extreme moisture and humidity.

Hang up the jacket instead of folding or rolling it up.

If you must store it folded or flat, do not store any items on top of the Air Vest.

7.3 REPAIRING OR REPLACING THE AIR VEST JACKET

Consult an authorized dealer about repairing or replacing your Air Vest if:

- The jacket or inner fabric become frayed or torn Inner tubing is exposed
- The key box or SPARK gas cartridge are cracked or rusted
- The adjustable operation strap is scraped or frayed.
- The material undergoes any considerable deterioration or discoloration





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"REPLACE ONLY WITH CERTIFIED SPARK CARTRIDGES"



Manufacturer :
 Smart Rider LTD
 Mishmar Hanegev 8531500, Israel

