



SIZE CHARTS

SIZE	XXS	XS	S	M	L	XL
● Chest	74-82	80-86	85-92	90-100	95-105	100-110
● Waist	60-68	66-74	72-80	78-86	84-92	94-102
● Back Length	28-31	30-33	31-34	33-36	36-39	37-40
CO ₂ Cartridge	45g	45g	50g	50g	74g	74g



"REPLACE ONLY WITH CERTIFIED SPARK CARTRIDGES"



Manufacturer :
Smart Rider LTD
Mishmar Hanegev 8531500, Israel



SPARK

MOTORCYCLE AIR BAG
SPARK RACE
USER'S GUIDE
NF EN 17092-6:2020

TABLE OF CONTENT

1	ABOUT THE SPARK RACE	PAGE 2
2	SAFETY INFORMATION	PAGE 3-6
2.1	GENERAL	PAGE 3
2.2	KEY BOX	PAGE 6
3	JACKET DETAILS	PAGE 7-10
3.1	BEFORE INFLATION	PAGE 7-8
3.2	AFTER INFLATION	PAGE 9-10
4	HOW IT WORKS	PAGE 11
5	REASSEMBLING	PAGE 12-14
5.1	OVERVIEW	PAGE 12
5.2	DETAILED STEPS	PAGE 13-14
6	FITTING YOUR SPARK RACE	PAGE 15
7	CARE INSTRUCTIONS	PAGE 16-17
7.1	CLEANING	PAGE 16
7.2	STORING	PAGE 16
7.3	REPLACING OR REPAIRING	PAGE 17

1. ABOUT THE SPARK RACE



The SPARK RACE uses an advanced safety technology developed for motor vehicles. In case of fall, the vest is inflated by a CO₂ cartridge



The SPARK RACE is a lightweight safety system designed to protect motorcyclists during a fall.



The SPARK RACE must be used only for motorcyclists, and has an adjustable belt.



The SPARK RACE is certified by Alienor Certification (2754), 21 rue Albert Einstein, 86100 Châtelleraut, France.

The product conforms to EU 2016/425 regulations standard, Confirmed according to NF EN 17092-6:2020, and tested by expert assessment to be in compliance with protocol AMC-013. Visit

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



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

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
- The SPARK Air Vest is to be used for motorcyclists, no other purpose
- The jacket must be properly fitted to provide protection to the motorcyclists
- 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 storage and used Below 45.DC and above 0.DC.
- Before riding, operation strap must be connected to the motorbike frame.
- Please adjust the operation strap as tight as possible while still allowing free movement.
- The tensioned strap must not exceed 45 c"m .

Bring to an authorized distributor for a maintenance check once a year, even if the Air Vest has had fewer than 10 inflations

- After accident, send the SPARK vest for checking to our authorized distributor:
- EKKIA S.A.S ,
- 12 rue Branly cs 90035
- 67501 HAGUENAU CEDEX FRANCE

We recommend that the SPARK air vest will be worn with conjunction with clothing that complies with the NF EN 17092 standard series.

- We advise to use SPARK air vest, in combination with other forms of PPE, including helmets, and other corresponding or complementary PPE garments such as jackets or trousers (in accordance with EN 17092 parts 2, 3, 4 and 5), other impact protectors, boots (in accordance with EN 13634) and gloves (in accordance with EN 13594) and visibility clothing (in accordance with EN 1150) or high visibility accessories (in accordance with EN 13356).
- We recommend that jacket and trouser separates should overlap when the motorcyclist is in the riding position.
- SPARK air vest should worn on top of your jacket. Please choose your other PPE items according to the riding activity that you plan, under considération of the weather.
- The degree of risk or hazard that a motorcyclist will face is closely linked to the type of riding and the nature of the accident. Motorcyclists are cautioned to carefully choose motorcyclists' protective garments that match their riding activity and risks. Other garments or garment combinations certified according to the EN 17092 series of standards may provide more appropriate protection than this garment but there may be weight or ergonomic (e. g. range of motion restrictions) or heat stress penalties associated with their use, that may be less appropriate for some riders.

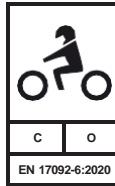
-Warning- the protection function is only obtained if the protection is closed

-Warning - no PPE or combination of PPE can offer full protection against injury.

-Warning – Please respect the speed limits as well as the traffic rules.

-Warning-Please don't try to repair the SPARK air vest by yourself. Please contact the authorized distributor for any issue.

- This PPE garment is designed to provide impact protection for the areas covered by the impact protectors. It does not offer minimum abrasion protection.



The appropriate pictogram according to the garment type:

- 1) the motorcyclists' pictogram;
 - 2) indication of the garment Class C as specified by this standard; covered by the impact protectors.
 - 3) indication of intended use for garment
- U for Undergarment
 - O for Overgarment

Duration and Disposal Instructions :

At the end of the protector useful life, be sure not to discard it in the natural environments. Please follow your local national environmental regulations and discard it in an appropriate dumping area. Further information regarding these regulations can be obtained from your local authorities.

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

Gas cylinders are dangerous goods, they should be kept Out of the reach of children and used with care.

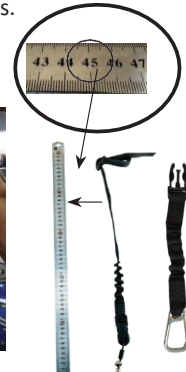
- Please adjust the operation strap properly, as tight as possible, but still allowing free movements.



Step 1 Connect the operation strap to the motorcycle shield



Step 2. And double lock



If you use Metal Hook operation strap, we recommend to choose the **SHORT** strap for **XXS** and **XS** sizes, and the **REGULAR** strap for all other sizes. Please make sure that the **SHORT** strap allows free movement.

3.1 JACKET DETAILS BEFORE INFLATION

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



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 your motorcycle, please attach the SPARK Air Vest's operation strap to the motorcycle shield. If the motorcyclist falls or is thrown from the motorcycle, 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.

Motorcyclists can disconnect their Air Vest from the motorcycle shield quickly thanks to its One-Click Release feature.

5.1 REASSEMBLING

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
- 3 cartridge Make sure the air cushion has
- 4 deflated Install a new SPARK CO₂ cartridge
- 5 Put the cover back on the key box

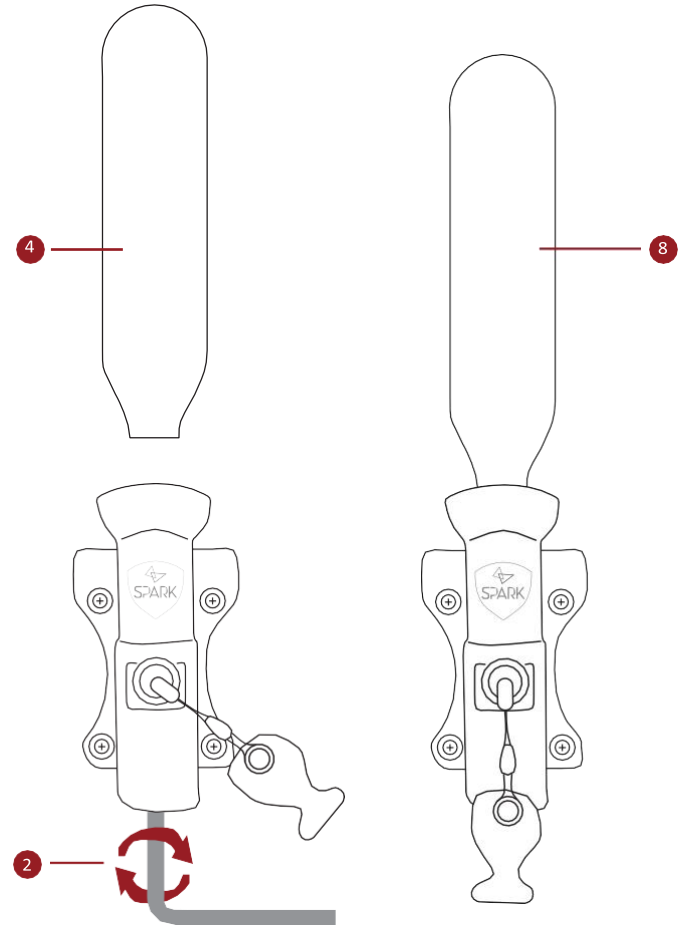
Before you screw or unscrew the bottom cupper , please insert the hexagon wrench till the stopper and hold it in position.



5.1 REASSEMBLING

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 SPARK RACE

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 pelvis 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.

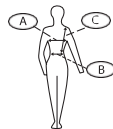
Make sure that all the buckles are well closed.

The waist size can be adjusted using an adjuster located inside the vest.

Worning- **avoid choosing a wrong size of PPE.**

The waist size can be adjusted using an adjuster located inside the vest.

SIZE CHARTS						
SIZE	XXS	XS	S	M	L	XL
A Chest	74-82	80-86	85-92	90-100	95-105	100-110
B Waist	60-68	66-74	72-80	78-86	84-92	94-102
C Back Length	28-31	30-33	31-34	33-36	36-39	37-40
CO ₂ Cartridge	45g	45g	50g	50g	74g	74g



7. CARE INSTRUCTIONS

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

7.1 CLEANING

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.

7.2 STORING

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

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

SMARTRIDER
sécurité, confort et style

Living your passion safely.
Moving freely. Looking great.