



**EQUE Pro**

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# Welcome!

Thank you for choosing the EQUE Pro Airbag vest. This manual explains how to use this product correctly.

For any questions or issues regarding your airbag vest, contact **EQUE Pro** customer service via our website.

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# Introduction & Product Overview

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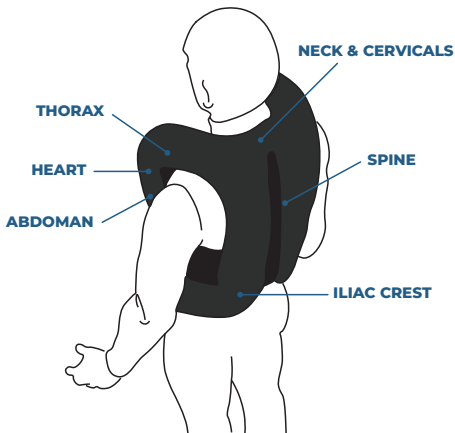
Horseback riding, while exhilarating, comes with inherent risks. One of the most effective ways to reduce the impact of falls is by using an equestrian airbag. This safety device inflates instantly upon sudden detachment from the saddle, creating a protective cushion around the rider's vital areas, such as the spine, chest, and neck. It works using a CO2 cartridge-based deployment system that rapidly inflates the airbag when the rider is thrown from the horse. This technology helps absorb impact energy, significantly reducing the risk of severe injuries.

The EQUÉ Airbag vest was developed to address the dangers associated with horseback riding. Riders are vulnerable to falls, which can result in serious injuries such as broken bones, spinal damage, or head trauma. Sudden movements, loss of balance, or unexpected behavior from the horse can lead to accidents. By incorporating airbag technology into equestrian gear, the EQUÉ Pro Airbag Vest enhances rider safety and provides peace of mind without compromising comfort or mobility.

## Protection Areas

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The following diagram showcases EQU Pro Airbag Vest's protection areas once the airbag is inflated:



## Key Features

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### **Rapid inflation upon activation**

Deploys in just 120 milliseconds for immediate protection.



### **Lightweight and comfortable design**

Ensures ease of movement without added bulk.



### **Adjustable fit for various body sizes**

Adapts to seasonal riding outfits for year-round use.



### **Wearable over any garment**

Designed for seamless integration with riding gear.



### **Offers maximum safety**

Provides full coverage to critical areas, including the back, chest, and neck.

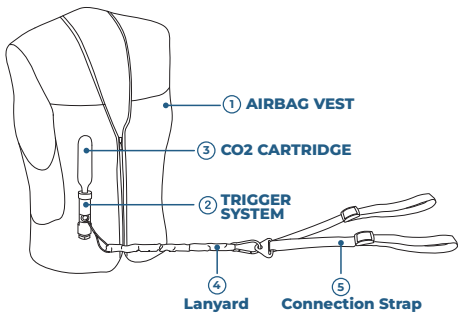


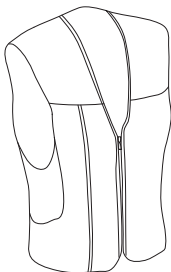
### **CO2 cartridge-based deployment**

Makes the airbag rechargeable and easy to reuse after deployment.

## Key Components

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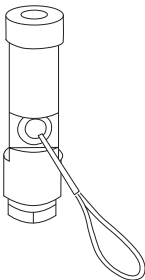


## I. Airbag Vest

The vest features a durable **polyurethane** airbag designed for maximum impact absorption. It inflates instantly upon activation and gradually deflates after deployment. The inner vest houses the **trigger system** and **airbag**, ensuring a seamless and reliable safety mechanism.



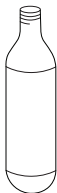
**Keep away from temperatures above 50°C to maintain performance.**



## II. Trigger System

The trigger system activates the airbag by releasing the gas from the **CO2 cartridge**. When a **force of 35 kg** is applied to the **lanyard**, the **locking ball** is pulled out, releasing a **spring** that drives the **puncturing piston** into the cartridge, instantly inflating the airbag.

**For safety, do not dismantle or modify any part of the system.**



### III. CO2 Cartridge

The CO2 cartridge is easily replaceable after each deployment. EQUÉ Pro cartridges come with a 10-year warranty and are designed for single use. Replace with the same type after activation.



- **Use only EQUÉ Pro brand cartridges.**
- **Store and use below 45°C; avoid prolonged exposure to heat (direct sunlight, radiators, etc.).**
- **Use at temperatures above 0°C; if stored below freezing, warm it to room temperature before use.**
- **Handle with care to prevent damage.**
- **Replace immediately if rust or corrosion appears.**
- **Check the cartridge weight annually for safety.**

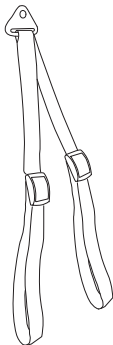


### IV. Lanyard

The lanyard features a clip on one end and a locking ball on the other. The locking ball sits on the puncturing piston, keeping the system armed. When mounting, always attach the clip to the metal ring of the connection strap.



- **Do not attach the clip directly to the saddle, as it may break in a fall.**
- **Ensure the lanyard does not tangle around any part of the saddle while riding.**



## **V. Connection Strap**

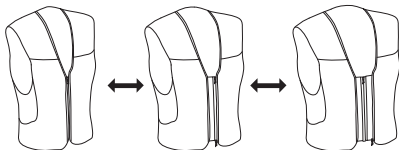
The connection strap connects the lanyard to the saddle and must be securely fastened. Proper adjustment is crucial for reliable activation:

- Ensure the lanyard and connection strap are not too long, as this could delay activation or prevent deployment.
  - Avoid making them too short, as this could cause discomfort or unintended activation, especially during jumps.
- The rider is responsible for correct installation and adjustment.

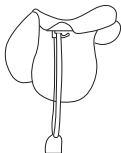
# How to Use

## Wearing the Airbag

1. Put on the airbag vest over your riding attire.
2. Adjust the size using the extra zippers to ensure a snug yet comfortable fit.



## Connecting & Activating



Remove the stirrup leathers

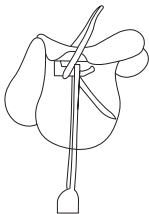


Pass the two connection strap loops through the stirrup bars and put the stirrup leathers back in place.

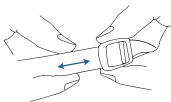




Make sure both ends of the connection straps are secure and the connection strap is centered on the saddle.

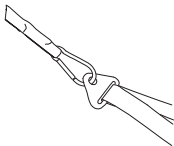


Once the connection strap is installed, you do not need to remove it and it can remain on your saddle.



### **Adjust the length of the connection strap**

The leash should be fully extended when you stand on your stirrups. You can adjust the length of the leash by sliding it through the loop.



### **Fasten the other end of the lanyard to the connection strap.**

Ensure the connection is firm.

## **Enjoy riding!**

**Trigger Conditions**

A sudden detachment of the lanyard from the vest triggers the airbag inflation.

The system is designed to activate only in significant falls to prevent false deployments.

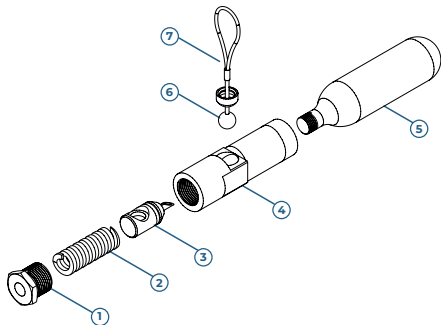
# Safety Instructions & Warnings

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- Ensure CO2 cartridges are properly installed and replaced after each deployment.
- Do not modify or tamper with the airbag system.
- Ensure the lanyard is correctly attached before riding.
- Always use MotoTech-approved CO2 cartridges.
- Do not wear the airbag under tight-fitting clothing.
- Inspect the vest and its components regularly for damage.
- Not to be used for children below 35 kg and pregnant women.
- Remove any sharp objects from your pockets before use.
- Use this product only as intended. Wear a proper fit and install the lanyard correctly.
- Avoid direct heat, puncturing, stitching, machine washing, ironing, tumble drying, or immersing in water.
- Clean with a damp, stiff-bristle brush and air dry, preferably on a hanger.

# CO2 Cartridge Replacement

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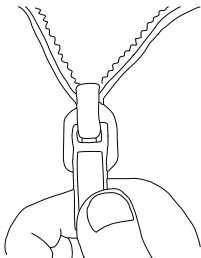


1. Back screw
2. Spring
3. Puncturing Piston
4. Trigger Frame
5. CO2 Cartridge
6. Locking Ball
7. Trigger Hook

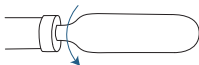
1. Ensure the airbag is completely deflated.



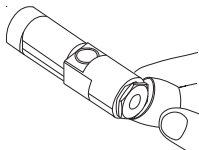
2. Open the zips covering the trigger system.



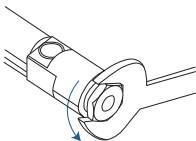
3. Unscrew the used CO2 cartridge and dispose of it properly.



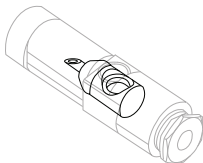
4. Remove the screw cover



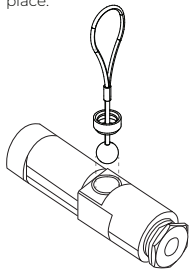
5. Open the back screw using the wrench provided with the product. (Do not fully unscrew—loosen only enough to reposition the puncturing piston.)



6. Push back the puncturing piston in a way that its notch exactly lines up with the hole on the trigger frame.

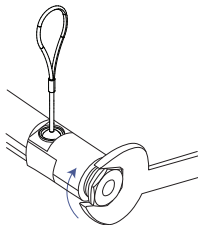


7. Put the locking ball in place.

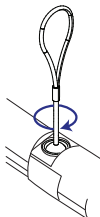


8. Tighten the back screw while holding the locking ball in place.

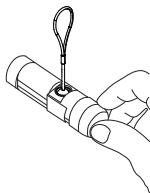
Screw the back screw to the end.



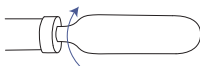
9. Turn the trigger hook 360 degrees to make sure it is not jammed.



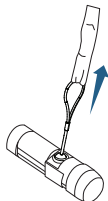
10. Put the screw cover in place.



11. Insert a new CO2 cartridge and tighten it securely.

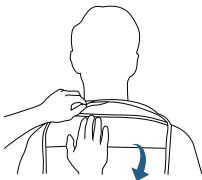


12. Check the system by lightly pulling the lanyard to confirm the connection, then close the zippers.



13. Turn over the vest and fold the neck extension inside.

Close the neck extension by sticking the two parts of the Velcro together.



# Maintenance & Cleaning

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## **Regular maintenance of the vest**

The EQUÉ Pro Airbag vest is designed for use in various weather conditions, including rain and snow. However, during heavy rain, it is recommended to wear a raincoat or windbreaker over it. After exposure to rain, hang the airbag in a shaded area on a hanger to dry completely. Avoid placing it near intense heat sources such as flames, radiators, or heaters. Additionally, if the CO<sub>2</sub> cartridge or other metal components come into contact with water, wipe them dry immediately to prevent rust. For optimal longevity, hang the airbag on a hanger after each use and avoid storing it folded or compressed state for long periods.



## How to clean airbag vest

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The airbag vest should never be washed in a washing machine. Instead, clean it by hand, ensuring that mechanical components are not submerged in water. Avoid strong detergents, as they may alter the fabric's color or damage it. Do not scrub the reflective parts aggressively to prevent wear. After cleaning, dry the vest as previously mentioned—by hanging it in a shaded area. Do not use a dryer, place it on a radiator, or expose it to direct high heat.

First, wipe off any surface dirt using a damp cloth or a light mist of water.

If stains remain, mix mild soap with lukewarm water and gently scrub the affected area using a brush or cloth.

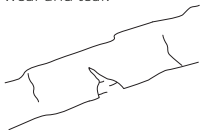
Finally, use a clean damp cloth to remove any soap residue and dirt.



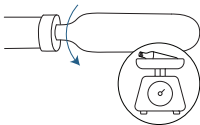
## Yearly maintenance and

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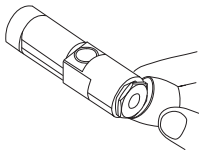
1. Inspect the lanyard and attachment points for wear and tear.



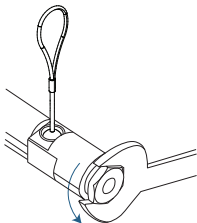
2. Unscrew the CO2 cartridge and weight check it based on the information on the label



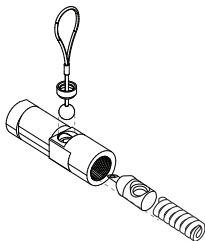
3. Remove the screw cover



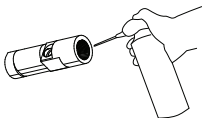
4. Open the back screw completely using the wrench provided with the product



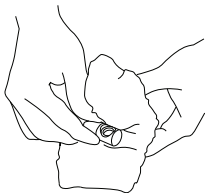
5. Pull out the Locking Ball, spring and then the Puncturing Piston



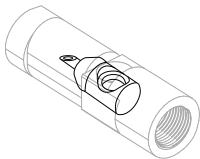
6. Using WD-40 spray, lubricate the inside of the trigger frame



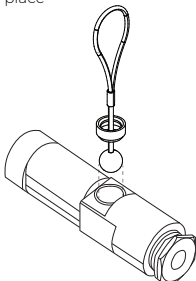
7. Clean each part that came out of the trigger frame using a damp cloth lightly



8. Put back the puncturing piston in a way that its notch exactly lines up with the hole on the trigger frame.

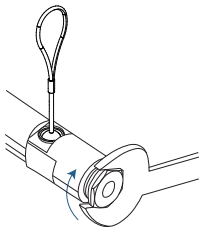


9. Put the locking ball in place

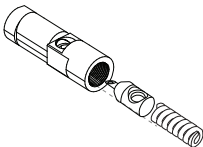


10. Put the back screw in its place

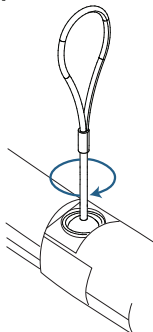
Tighten the back screw while holding the locking ball in place. Screw the back screw to the end



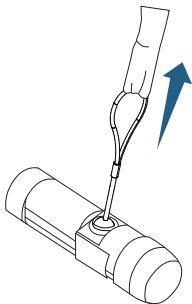
10. Put the spring inside the trigger frame behind the puncturing piston



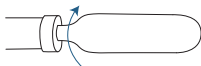
11. Turn the latch a full 360 degrees to ensure it moves freely and is not jammed.



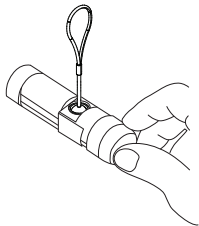
13. Check the system by lightly pulling the lanyard to confirm the connection.



12. Insert the CO2 cartridge and tighten it securely.



14. Put the screw cover in place.



# Warranty & Registration

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EQUE Pro Airbags come with a 5-year warranty on the internal system:

- Any defects or malfunctions in the internal airbag, trigger system, or its components.
- Any damage in the internal airbag and the trigger system due to impact or shock after accidents.
- Any rust or corrosion on the internal metal components caused by moisture or water exposure.

## Warranty Registration

Dear Customer, To activate your warranty, please visit our website at **[www.equepro.co/guarantee](http://www.equepro.co/guarantee)** and complete the registration process within 20 days of purchase.

Please note that failure to do so will result in the warranty being deactivated.





**Disclaimer!**

This product is designed to enhance safety but cannot protect against all impacts or injuries. By using this product, you agree the producer shall not be held liable for any damages resulting from its use, misuse, or failure to protect in certain circumstances.