

WELCOME!

Thank you for choosing the **TWIST'AIR vest**.
This manual explains how to use this product correctly.

For any question/problem relating to your airbag vest,
contact IN&MOTION customer service by specifying your request in the website's contact form.
www.inemotion.com, Contact page.

STAY CONNECTED!



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PLEASE READ THIS MANUAL BEFORE USE

Before using your TWIST'AIR vest, please read the safety instructions detailed in this manual carefully.

In order to get the latest updated version, please refer to the Horseriding "Support" section in the www.inemotion.com website (version number indicated at the end of this manual).

You can also find support articles and video tutorials on how to use this device on our YouTube channel **(bit.ly/HorseridingTutoInemotion)** and at our website www.inemotion.com.

User security is IN&MOTION's primary concern.

As part of our obligation of means, we strive to implement all the technological solutions available so that the TWIST'AIR vest can ensure the best degree of protection and comfort.

However, the user of this device is the first player of their protection, and the TWIST'AIR vest will provide optimal protection only by adopting responsible behaviour without guaranteeing the absence of injury.

Using the TWIST'AIR vest does not act as a substitute for dangerous behaviour.

The TWIST'AIR vest should be used according to the instructions detailed in this manual. This airbag vest is designed to offer optimal protection only when inflated.



The TWIST'AIR vest was designed to be used for horseback riding only. Do not use it for other applications (ski, motorbike, bicycle, freestyle, etc.).



The TWIST'AIR vest is designed to protect against injury in a fall, although no product or system of protection can offer complete protection in the event of a fall, impact, or other. This system is based on a mechanically triggered airbag and has been developed to meet the requirements of the NF S 72-800:2022 standard for protective clothing for equestrian activities.

In no case does the TWIST'AIR vest prevent falls. Therefore, it is the user's responsibility to behave responsibly. Using the TWIST'AIR vest must not encourage the user to take additional risks. The user is solely responsible for their riding.

IN&MOTION AIRBAG VEST FOR HORSEBACK RIDERS - User manual

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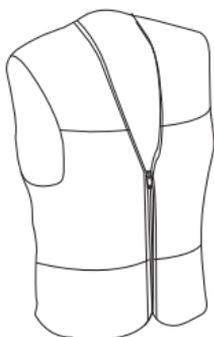
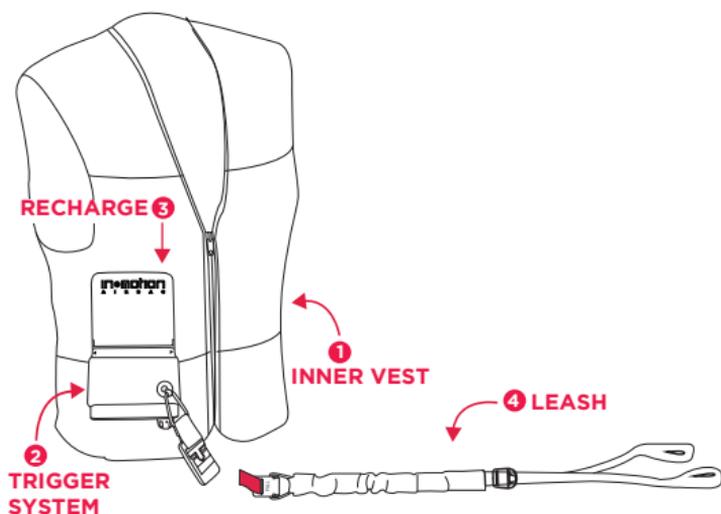
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GENERAL PRESENTATION

AIRBAG COMPONENTS

The TWIST'AIR vest includes several components that we will present in detail in the following section. The TWIST'AIR vest weighs approximately 860 g for a size M (without the Leash). The trigger system was designed to be ergonomic: Flat and close to the body.



#1 INNER VEST

The Inner vest contains the trigger system and the airbag.



#2 TRIGGER SYSTEM

The system consists of a Trigger System that releases the gas contained in the recharge.



#3 RECHARGE

The recharge contains the gas cartridges (CO₂) needed to inflate the waistcoat. The recharge must be replaced after each inflation.



Only use IN&MOTION recharges.

The recharge should be handled and stored with care. Precautions for using and replacing the recharge are detailed in the "After Inflation" section of this manual.

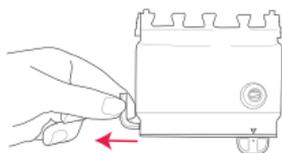


#4 LEASH

The Leash connects the trigger system to the saddle.

The two leash straps must be fastened to the saddle.

The automatic magnetic connection system is divided into two parts: One secured to the saddle and the other secured to the system built into the airbag.



#5 ALLEN WRENCH

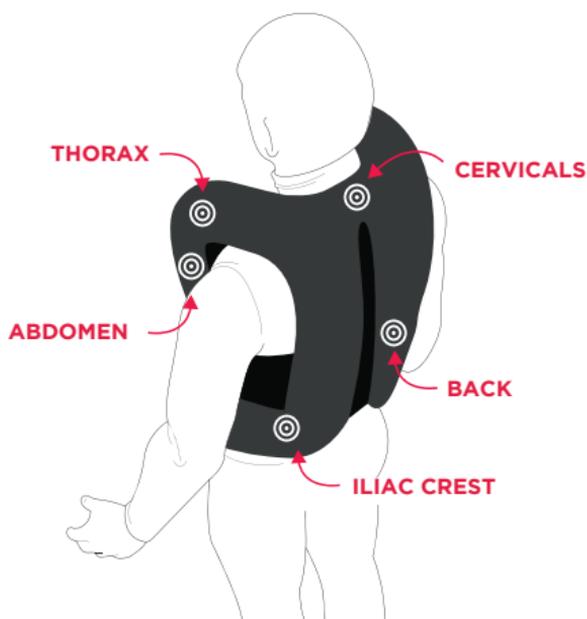
An Allen wrench is supplied with the product to reactivate the trigger system once the airbag has been triggered.



The 4mm Allen wrench is located on the back of the trigger.

PROTECTION AREAS

Once inflated, the airbag protects the vital areas of the body: abdomen, thorax, cervicals, and back.



SIZE GUIDE

For proper use and optimal protective performance, the TWIST'AIR vest must be worn and fitted correctly to your body so that the protective zones are perfectly in place. Close all fasteners and other attachments to ensure maximum comfort.

Please ensure that you select the correct size by referring to the measurement table below as needed:

TABLE IN CM:

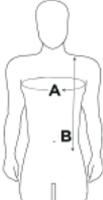
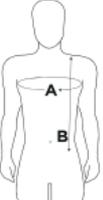
	Vest In&motion	XXS	XS	S	M	L	XL	XXL
	A: Chest size (cm)	65-70	70-75	75-80	80-85	85-90	90-95	95-100
	B: Length waist-shoulder (cm)	27-31	29-32	30-33	31-34	32-35	33-36	34-37
	Women	30-32	34-36	38-40	42-44			
	Men			44	46-48	50-52	54-56	58-60

TABLE IN INCHES:

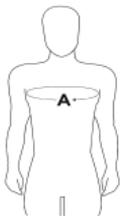
	Vest In&motion	XXS	XS	S	M	L	XL	XXL
	A: Chest size (inches)	26-28	28-30	30-32	32-34	34-36	36-38	38-40
	B: Length waist-shoulder (Inches)	10,5-12	11,5-12,5	11,5-13	12-13,5	12,5-13,5	13-14	13,5-14,5
	Women	30-32	34-36	38-40	42-44			
	Men			44	46-48	50-52	54-56	58-60

A. Chest size: Measure chest circumference at the widest point.

B. Waist-shoulder length: Length measured in the back from the waistline to the shoulder line.

EQUIPMENT COMPATIBILITY

The airbag vest can be worn under a jacket. To make sure your jacket is compatible with the airbag vest, **measurements must be taken**. You can check the compatibility of your jacket yourself by following the protocol below:



#1 MEASURE THE USER WITHOUT THE VEST

The following measurement is to be taken without wearing the vest:

A) Measure your chest circumference in cm (e.g.: A = 100 cm).



#2 MEASURE THE JACKET

The following measurements are made by stretching the jacket tightly. All elastic fabrics and elasticated parts must be well stretched in the measurement direction.

Place your closed jacket on a flat surface.

B) Stretching the jacket until the elastic and fabric parts are tight, measure the width of the jacket under the armpits in cm (e.g.: B = 58 cm).

C) Multiply the value obtained in B by 2 (e.g.: C = 2x58cm = 116cm).

#3 COMPATIBILITY

Your jacket is compatible with the airbag vest if the difference between the value obtained in C (e.g.: C = 116cm) and the measurement obtained at A (e.g.: A = 100cm) is **greater than or equal to 13cm**.

If in doubt, ask your local dealer for advice.

Example: 116-100=16 cm → Your jacket is compatible.



IN&MOTION cannot be held responsible for any damage to your clothing—such as a competition jacket, rainwear, down jacket, sweatshirt, etc.—worn over your airbag vest. The airbag vest should only be worn under compatible products.

GETTING STARTED

FIRST USE



#1 SECURE THE LEASH TO THE SADDLE

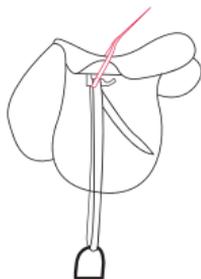
First of all, remove the stirrup leathers.



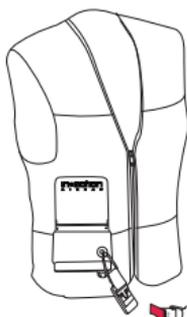
Pass the two leash loops through the stirrup bars and put the stirrup leathers back in place.



Make sure both leash straps are secure.

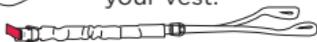


Once the leash is installed on the saddle, you do not need to remove it, and it can remain on your saddle.



#2 FASTEN THE LEASH TO YOUR AIRBAG VEST

Once you are on your horse and wearing your vest, connect the leash to your airbag vest. To do this, secure the automatic connection system (red) to the strap hanging from your vest. This patented magnetic connection system is easy to connect and disconnect from your vest.



Remember to release the leash from your airbag vest when you dismount to avoid accidentally triggering the airbag.

#3 ADJUST THE LENGTH OF THE LEASH



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.

You can also refer to the table below and use the height of the horse at the withers to adjust leash length. Leash length is measured between the ball and the junction of the two straps connected to the stirrup bars.

Height of the horse at the withers (m)	1,40	1,50	1,60	1,70	1,80	1,90	2,00
Maximum leash adjustment length (cm)	51	56	61	66	71	76	81



Make sure the leash is adjusted correctly to ensure proper airbag operation. Adjusting leash length incorrectly may result in delayed airbag activation.

AFTER INFLATION

STORAGE AND USE OF THE RECHARGE

The recharge contains the gas cartridges (CO₂) needed to inflate the waistcoat.



Caution! The recharge should be handled and stored carefully out of the reach of children at temperatures not exceeding 45°C (113°F).

Do not repair. Do not perforate. Do not reuse the recharge after inflation. Do not dismantle. Do not use or attempt to use with any other equipment than the TWIST'AIR vest nor without the TWIST'AIR vest.

CHECKS AFTER INFLATION OF THE VEST

After each inflation of the vest, carry out the following checks before using your airbag again:

- **Check that the airbag fabric is not damaged.**
- **Check that the plastic of the trigger system is not damaged.**

To deflate the airbag, flatten it on a clean surface and press down on each chamber with both forearms.

In case of damage or malfunction, do not use your IN&MOTION airbag and contact customer service. They will advise you on whether maintenance is required.

Please replace the recharge after each inflation, as described in the "Recharge Replacement" section of this manual.

RECHARGE REPLACEMENT

If your airbag inflates, the recharge must be replaced with a new one.

Even if it has not inflated, the recharge's weight must be checked every year: 204 grams (+/- 6 grams). If the recharge is below this weight, it must be replaced.



Only replace the recharge with an IN&MOTION recharge compatible with the TWIST'AIR VEST. Only recharges supplied by IN&MOTION and its dealers are certified. Make sure that no other references are used.

You can buy a new recharge at www.inemotion.com or www.horsepilot.com. You can also visit your nearest dealer.



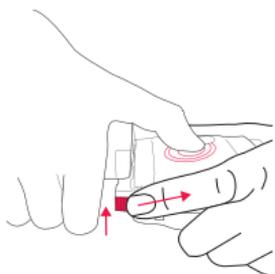
To replace the recharge, **see the video tutorial (QR code in the link above)** or follow the instructions below:



Always replace the recharge in a clean environment. Never place your fingers on the pistons.

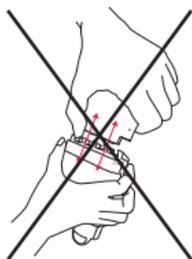
#1 REMOVE THE RECHARGE

Lower the two latches on the side of the trigger with your thumb and forefinger.



While holding both latches down, place your free hand under the recharge and your thumb on the trigger (as shown in the diagram).

Using your thumb, push the recharge upwards to remove it.

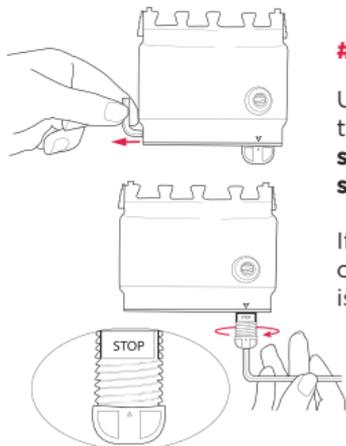


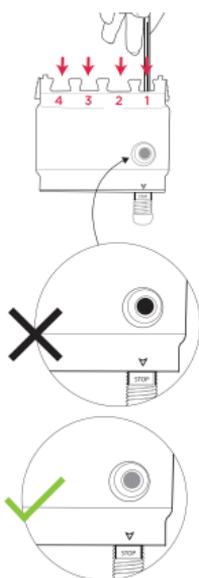
CAUTION: Do not pull the recharge in the direction shown in the diagram.

#2 UNSCREW THE CAP

Using the Allen wrench on the back of the trigger, **unscrew the cap until you see the “STOP”** and stop before you see the red marking.

If the red marking appears, screw the cap back on a little until the red marking is no longer visible.





#3 PUSH THE PISTON

Push piston 1 using the Allen wrench provided on the back of the trigger **until the hole in the piston is aligned with the hole in the trigger.**

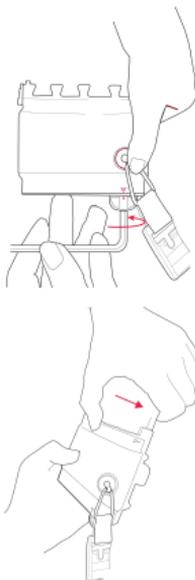


CAUTION: Please make sure that the hole in the piston is of a "metal" colour. If the hole is black, the piston has not been pushed in properly.



CAUTION: The piston may have rotated around its axis. If the hole in the piston is not visible, please use the Allen key to orientate the piston properly.

Still using the Allen wrench, push pistons 2, 3, and 4 into their seats.



#4 INSTALL THE PIN

Place the release pin in the piston hole, ensuring that it is firmly seated.

While holding the pin in place with your thumb, screw the cap back on until the arrow on the cap and the arrow on the trigger are aligned.

#5 FIT THE NEW RECHARGE

Fit the new recharge: Insert the new recharge by clipping it onto the trigger. Then put the elastic back on to hold it in place.

MAINTENANCE

REGULAR MAINTENANCE OF THE VEST

Whether your vest has inflated or not, maintenance is recommended every **2 years** after purchase, even if your vest is functioning normally.

In case of damage or malfunction, do not use your IN&MOTION airbag and please contact customer service. They will advise you on whether maintenance is required.

Even if it has not inflated, the recharge's weight must be checked every year: 204 grams (+/- 6 grams). **If the recharge is under this weight, it must be replaced**, as described in this manual's "After Inflation" section.

MAINTENANCE SERVICE

You can order maintenance directly on www.inemotion.com under the "Shop" tab.

PRODUCT CARE

Brush the vest with a slightly damp stiff brush. Air dry, preferably on a hanger.

Do not immerse the airbag, do not wash the airbag vest in a washing machine or by hand, do not use a tumble dryer, do not tumble dry, do not use a hairdryer, do not use detergent, do not iron, do not bleach, do not dry clean, dry away from a source of heat and out of the sun.

For more details, please refer to the care label.

SERVICE LIFE AND CHECKS TO PERFORM

After an impact, the airbag system may be partially damaged by having absorbed the energy of the impact to reduce its force.

Also, over time, the product may be partially damaged. **Always check your protective equipment before use to ensure that it is in good condition and not damaged.**

The life of the TWIST'AIR vest depends on the frequency and conditions of its use.

Vest performance is guaranteed for **5 inflations**, subject to compliance with the post-inflation procedure.

MANUFACTURING DATE

Your vest's manufacturing date is located in the serial number under the product's barcode.

It is in the format "S/N xxYYxxxx-xxxxx", with **YY** indicating the year of manufacture.

Ex: S/N 10**21**2208-00001 → product manufactured in 2021.

STORAGE AND TRANSPORT

PRODUCT STORAGE

Store the vest in a clean, ventilated place, away from moisture and light, and protected from shocks and pressure.

Do not store the vest near flammable surfaces or objects. Do not leave the vest in direct sunlight, under a windscreen, or in a car.

Do not fold, crease, bend, twist, or ball up the vest. Hang it on a hanger or lay it flat to avoid breaks or cracks.

If misused, the vest may cause improper inflation, which could damage your property or even cause personal harm.

Ensure that you transport the vest in clean packaging that protects it from moisture and direct sunlight, and keep this user's manual throughout its life.

PRODUCT TRANSPORT

Keep this user's manual with the product when travelling, especially by air.

IN&MOTION cannot be held responsible if the airline refuses to transport the vest.

You can download the documentation corresponding to transportation in the support section of the website:

<https://www.inemotion.com/en/support/airbag-vest-transportation/>

Please note that some airlines may not allow gas cartridges (and therefore your airbag) to be carried in the hold and/or cabin. We recommend that you check with the airlines before you leave.

WARNINGS

Please read the instructions for use.

#1 USING THE TWIST'AIR VEST

The TWIST'AIR vest is a new system to be used for horseriding only. Do not use it for any other activities.

Horseback riding is an inherently dangerous activity that can lead to severe injury or death.

This product is designed to offer comfort and high protection. However, no product or protection system can provide complete protection from injury or damage to individuals or property in case of fall, collision, impact, loss of control or otherwise.

In no case does the TWIST'AIR vest prevent falls. Therefore, it is the user's responsibility to behave responsibly.

The use of this product must not encourage the user to exceed limits or take additional risks. The user is solely responsible for their riding.

Only the body parts covered by the protection are protected against impact.

The TWIST'AIR vest should not be considered a substitute for protective equipment such as helmets/headgear, gloves, etc. The TWIST'AIR vest must be used according to the instructions given in this manual.

#2 FITTING INSTRUCTIONS FOR YOUR TWIST'AIR VEST

For proper use and optimal protective performance, the TWIST'AIR vest must be worn and fitted correctly to your body as indicated in this manual so that the protective zones are perfectly in place.

For maximum comfort, please select the correct size and close all fasteners.

#3 USING THE TWIST'AIR VEST

Never modify your vest or its components.

Any modification of any kind could compromise proper vest operation and, therefore, its defensive performance in the event of a fall or accident.

Never add decorations, ribbons or other parts to the airbag positioning areas.

TWIST'AIR vest components can only be modified by IN&MOTION.

#4 CARING FOR YOUR TWIST'AIR VEST

Take good care of your vest and its components and follow the manual's instructions for use and storage.

Following an impact, protective components or the airbag system may be partially damaged by having absorbed the energy of the impact.

Regularly check your protective equipment before use to ensure that it is in good condition and not damaged.

The properties of the materials may change over time, so if there is any sign or suspicion of damage, contact customer service.

#5 MAINTAINING AND REPAIRING YOUR TWIST'AIR VEST

Do not repair or attempt to repair the vest or its components yourself.

If you need to check the vest or its components, contact IN&MOTION's maintenance services.

Follow the recommended maintenance interval: Every two years from the date of purchase, even if your vest is operating normally.

#6 OTHER PRECAUTIONS

The noise generated by the airbag triggering is likely to frighten the horse.

Before you dismount, release the magnetic connection system to avoid accidentally triggering the airbag. Do not leave the TWIST'AIR vest near flammable surfaces or objects.

The airbag can be used in the rain, provided the trigger system is not in direct contact with the rain.

Keep children away from the system to avoid possible injury. Children under 12 cannot use this product.

Do not immerse the airbag, do not wash the airbag vest in a washing machine or by hand, do not use a tumble dryer, do not tumble dry, do not use a hairdryer, do not use detergent, do not iron, do not bleach, do not dry clean, dry away from a source of heat and out of the sun.

Do not perforate, cut, or otherwise interfere with the integrity of the trigger system or any other part of the vest. Always store the TWIST'AIR vest in a dry and ventilated place, away from light. This device uses pressurised gas, do not dismantle or interact with the trigger system unless you follow IN&MOTION's instructions.

The use of the TWIST'AIR vest is not recommended for:

- **People who wear pacemakers or other medical devices, as there is a risk that triggering may disrupt their operation**
- **People with back or neck problems,**
- **People with breast implants,**
- **Pregnant women.**

#7 PRODUCT RECYCLING

If your recharge is empty or your product has reached the end of its service life, please do not dispose of this recharge or product with your household waste.

To avoid any harm to the environment or human health resulting from uncontrolled waste disposal, please dispose of these products separately in accordance with national laws and regulations.

Please contact your local authorities for more information on the different separate collection systems available in your area.

In addition, we are striving to improve our product recharge design to optimise the materials used and limit waste.

Furthermore, this user manual is printed on 100% recycled paper produced in France and is recyclable.

ADDITIONAL INFORMATION

#1 CUSTOMER SERVICE

If you have any questions about the operation of the TWIST'AIR vest or a problem concerning the TWIST'AIR vest, contact the IN&MOTION customer service by specifying your request in the contact form on the website www.inemotion.com, on the Contact page.

#2 WARRANTY

The TWIST'AIR airbag is CE-certified and guaranteed for two (2) years; see the terms and conditions on the IN&MOTION website.

#3 NOTIFIED BODY

Airbag system tested and certified according to NF S 72-800:2022.

The TWIST'AIR vest is CE-certified in accordance with the EU regulation 2016/425 by the independent laboratory ALIENOR CERTIFICATION (21 rue Albert Einstein, 86100 Châtelleraut, France - Accreditation n°2754).

#4 DECLARATION OF CONFORMITY

IN&MOTION, under its sole responsibility, confirms that the product described in this user manual is certified by the notified body ALIENOR CERTIFICATION.

The declaration of conformity can be found on the following page :

<https://www.inemotion.com/en/support/declaration-of-conformity-horseriding/>



THE CE MARKING INDICATES THAT THE TWIST'AIR VEST COMPLIES WITH THE REQUIREMENTS OF REGULATION (EU) 2016/425 OF 9 MARCH 2016 ON PERSONAL PROTECTIVE EQUIPMENT.

#5 REGISTERED TRADEMARK

IN&MOTION® is a registered trademark owned by IN&MOTION S.A.S.

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