

hit-air manual

Using Airbag

General Information

Be sure to read this page before using and after re-assembling the airbag.

1. A CO2 cartridge of the right size for the model is installed.
2. Sealed properly (No damage to the seal)
3. The red slide cover is lifted to the "unlocked (up)" position.
4. Is there any deterioration of the wire loop or the coiled wire?
5. A screw hole at the bottom of the key box is visible.
6. A Coiled Wire is set properly.

Using Airbag

Attaching Coiled Wire to Saddle

Using One-touch Release

How to fix a Coiled Wire

How to Re-assemble

How to remove the airbag

How to disassemble (Key Box B-type)

How to assemble (Key Box B-type)

How to disassemble (Key Box Y-type)

How to assemble (Key Box Y-type)

Manual/PDF

Vest, Jacket, All-in-one
KeyBox B-type

Vest, Jacket, All-in-one
KeyBox Y-type

All-in-one: KeyBox B-type

For your safety, peace of mind and correct use of your airbag jacket.

The correct set up to ensure maximum effectiveness in emergency is as follows.

エアバッグジャケットは正しくセットして、高の腰、正しく作動させ、安全性を最大限に引き出すために事前に読んでおいてください。そうでなければ、事故の際に効果が期待できず、怪我の原因になります。

General Information

The jacket with the Hit-Air (Shock-buffering Protection System) is to be worn as outerwear when horseback riding.

It will be activated/inflated immediately after a distance from the rider to the horse exceeds the "activation distance" when the rider falls off or is thrown off the horse. It will be activated at the moment the key ball is pulled out from the key box. This causes the gas cartridge to release the CO2 gas and the air cushions to inflate them immediately. Inflated air cushions are designed to come between the rider's body and objects against which the rider may strike after falling off or being thrown off the horse. The Hit-Air will act as a buffer to absorb the shock of impact and reduce the risk of injury the rider who wears it.

However, this does not imply or guarantee rider's safety.

If the "coiled wire" running from the "key box" to the saddle horn touches an "obstacle such as the rider's body, any part of the saddle, a whip or any other projecting object, there is a possibility of accidental activation when the "activation distance" is a force strong enough to pull the "key ball" out of the "key box".

If the rider catches or falls down together with the horse, unless the "activation distance" is exceeded, the Hit-Air will not be activated. The Hit-Air will not protect areas where the inflated air cushions does not cover.

If the rider wearing the Hit-Air forgets to disconnect the "one-touch release" and goes away from the horse further than the "activation distance", a force of approximately 10kg (22 lbs) may activate and inflate the Hit-Air. Connect or disconnect the "one-touch release" while you are on the horse.

*Keep open flames and cigarettes away from the jacket with the Hit-Air as holes or tears caused by them will prevent its function. Keep and use at temperatures below 40°C (104°F) as the gas cartridge may burst at a high temperature.

*Once a gas cartridge is used, it cannot be used again. Buy a new one from an authorized dealer.

*The jacket with the Hit-Air is not a seat for the rider's safety when riding a horse and for any other purpose.

*Remove sharp pointed objects such as pins or needles from the jacket with the Hit-Air or from the underwear before wearing. They may damage the air cushions before or at the time of the activation and prevent the function of the Hit-Air.

*To avoid any damage to the airbag, do not prick a needle or an embolism or iron on the jacket with the Hit-Air.

*Consult with an authorized dealer where to sew an emblem.

*Don't wash a Hit-Air inner system. Remove it from the vest or jacket and wash the vest or jacket only.

Be sure to read this page before using and after re-assembling the Hit-Air.

For your safety, peace of mind and correct use of your airbag jacket, make sure that items ❶-❹ are confirmed before use as follows:

注意 ⚠ ❶-Unless the Hit-Air is set correctly, it may not work or may cause a malfunction.
❷-Once a CO2 cartridge is activated, it cannot be used again. Remove it from the key box without fail.
❸-Use a Hit-Air CO2 cartridge only. Do not use any other one.

❶ A CO2 cartridge of the right size (capacity) for the model is installed.

The size (capacity) of the cartridge shown on model to model. Make sure that the size (capacity) shown on the seal attached to the CO2 cartridge and that shown at the bottom of the key box cover are the same. (Some models have no size label attached.)

※「If sizes shown as above are not the same, it may cause a malfunction.'
*A description of the size label varies from model to model.

http://www.hit-air.com/Replacement gas cartridge list

❷ Sealed properly (No damage to the seal)

*No seal is attached in case re-assembling is done by yourself.
Unused CO2 cartridge and the key box are properly sealed at the time of shipment. (The key box is sealed.)

*The right size capacity-cartridge for the model is installed.
*A CO2 cartridge is tightly screwed into the key box.
*An used empty cartridge should not be installed.

注意 ⚠ Re-assembling after the activation must be done in accordance with "Re-assembling Key Box".
The key ball must be set only after the used empty cartridge is removed from the key box.

❸ The red slide cover is lifted to the "unlocked (up)" position.

If the CO2 cartridge and the key box are not sealed or if the seal attached is torn at the time of the purchase of a new product, remove the cartridge and make sure that there is no hole at its bottom (at the screw end).

*If there is a hole - it is an used cartridge to be installed in the key box for use.

注意 ⚠ If a CO2 cartridge is screwed into the key box loosely, it may cause a malfunction.
*If the CO2 cartridge with no hole at its bottom is usable.

❹ Is there any deterioration of the wire loop or the coiled wire?

If there are signs of wear and tear, replace it with a new one. We recommend you to replace it in every one or two years.

注意 ⚠ An unused cartridge is to be installed in accordance with "Re-assembling Key Box".

❺ A screw hole at the bottom of the key box is visible.

(The setting bolt is removed)

Make sure that the setting bolt has been removed from the key box. The setting bolt is a tool to be used for setting the key ball into the hole of the key box for re-assembling.

注意 ⚠ The Hit-Air will not be activated if the setting bolt remains in the key box. Make sure that the setting bolt is removed from the key box before using the Hit-Air.

❻ A Coiled Wire is set properly.

The knot tightly to fix a coiled wire to the saddle, a knot works as the stopper to prevent the wire coming off when the Hit-Air is activated and the airbag will not inflate.

注意 ⚠ Without a knot, the wire may come off the Hit-Air at its activation and the airbag will not inflate. If cracks, peeling, burns or wear is found or the Kevlar cord's inner core becomes visible, replace it immediately.

▶Buckle type Coiled Wire, Coiled Wire-2(Belt type)

Using Airbag

Attaching Coiled Wire to Saddle

From a knot

How to fix a Coiled Wire

How to adjust the length of a coiled wire.

Standing up with a stretched wire.

Standing with a slack wire.

Short NG

Caution

Don't fix a coiled wire directly to metal fittings for the grab-strap which may be broken away come off and the system may not activate.

Using One-touch Release

馬への乗り降りの際にワンタッチリリースでラクラク!
乗馬の際にサドルホルダーに付けたワンタッチリリースのメス部分でコネクタのキーボールを押すと、メス部分とオス部分の接続が解除されます。乗馬の際には、コネクタのキーボールを押し込んで接続します。

1. Hold the female connector and insert the male one. A clicking sound confirms that a connection has been made. Pull the male connector lightly to make sure that the connection has been made properly.
2. If you have difficulty making the connection, clean the male and female parts thoroughly.
3. Change it for a new one, if the insertion cannot be made properly. Insertion by force may cause a malfunction of the one-touch release.

How to fix a Coiled Wire

How to adjust the length of a coiled wire.

Standing up with a stretched wire.

Standing with a slack wire.

Short NG

Caution

Don't fix a coiled wire directly to metal fittings for the grab-strap which may be broken away come off and the system may not activate.

How to re-assemble

Airbag is reusable repeatedly after the deployment by replacing a CO2 cartridge, if there is no wear and tear on the jacket/vest.

コメント新稿

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Dismantling and Assembling of Hit-Air system

KeyBox B-type Model: MC2, MC, JV, JS, J, D, etc

How to disassemble (the reverse of dismantling)

How to assemble (the reverse of dismantling)

KeyBox Y-type Model: KM, FFE, FR, FR2

How to disassemble the Hit-Air inner system

How to assemble (the reverse of dismantling)

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

Comments New Article

How to remove the airbag system (for washing)

The outer jacket or vest only can be washed after the airbag system is removed. (The airbag system should not be washed.)

As the airbag system is simply fastened to the jacket by means of buttons, fasteners and/or Velcro, it can be removed easily by unfastening them.

The gas will not leak out of the unused gas cartridge, even if it is removed from the airbag system at the same time (If/when the key ball comes out of the key box, a needle in the key box punctures the seal of the gas cartridge to inflate the airbag system)

*See "User's Guide in detail."

*Harness type HS-Air (all-in-one airbag) cannot be dismantled.

hit-air manual

Using Airbag

General Information

Be sure to read this page before using and after re-assembling the airbag.

1. A CO2 cartridge of the right size for the model is installed.
2. Sealed properly (No damage to the seal)
3. The red slide cover is lifted to the "unlocked (up)" position.
4. Is there any deterioration of the wire loop or the coiled wire?
5. A screw hole at the bottom of the key box is visible.
6. A Coiled Wire is set properly.

Using Airbag

Attaching Coiled Wire to Saddle

Using One-touch Release

How to fix a Coiled Wire

How to Re-assemble

How to remove the airbag

How to disassemble (Key Box B-type)

How to assemble (Key Box B-type)

How to disassemble (Key Box Y-type)

How to assemble (Key Box Y-type)

Manual/PDF

Vest, Jacket, All-in-one
KeyBox B-type

Vest, Jacket, All-in-one
KeyBox Y-type

All-in-one: KeyBox B-type

For your safety, peace of mind and correct use of your airbag jacket.

The correct set up to ensure maximum effectiveness in emergency is as follows.

エアバッグジャケットは正しくセットして、高の腰、正しく作動させ、安全性を最大限に引き出すために事前に読んでおいてください。そうでなければ、事故の際に効果が期待できず、怪我の原因になります。

General Information

The jacket with the Hit-Air (Shock-buffering Protection System) is to be worn as outerwear when horseback riding.

It will be activated/inflated immediately after a distance from the rider to the horse exceeds the "activation distance" when the rider falls off or is thrown off the horse. It will be activated at the moment the key ball is pulled out from the key box. This causes the gas cartridge to release the CO2 gas and the air cushions to inflate them immediately. Inflated air cushions are designed to come between the rider's body and objects against which the rider may strike after falling off or being thrown off the horse. The Hit-Air will act as a buffer to absorb the shock of impact and reduce the risk of injury the rider who wears it.

However, this does not imply or guarantee rider's safety.

If the "coiled wire" running from the "key box" to the saddle horn touches an "obstacle such as the rider's body, any part of the saddle, a whip or any other projecting object, there is a possibility of accidental activation when the "activation distance" is a force strong enough to pull the "key ball" out of the "key box".

If the rider catches or falls down together with the horse, unless the "activation distance" is exceeded, the Hit-Air will not be activated. The Hit-Air will not protect areas where the inflated air cushions does not cover.

If the rider wearing the Hit-Air forgets to disconnect the "one-touch release" and goes away from the horse further than the "activation distance", a force of approximately 10kg (22 lbs) may activate and inflate the Hit-Air. Connect or disconnect the "one-touch release" while you are on the horse.

*Keep open flames and cigarettes away from the jacket with the Hit-Air as holes or tears caused by them will prevent its function. Keep and use at temperatures below 40°C (104°F) as the gas cartridge may burst at a high temperature.

*Once a gas cartridge is used, it cannot be used again. Buy a new one from an authorized dealer.

*The jacket with the Hit-Air is not a seat for the rider's safety when riding a horse and for any other purpose.

*Remove sharp pointed objects such as pins or needles from the jacket with the Hit-Air or from the underwear before wearing. They may damage the air cushions before or at the time of the activation and prevent the function of the Hit-Air.

*To avoid any damage to the airbag, do not prick a needle or an embolism or iron on the jacket with the Hit-Air.

*Consult with an authorized dealer where to sew an emblem.

*Don't wash a Hit-Air inner system. Remove it from the vest or jacket and wash the vest or jacket only.

Be sure to read this page before using and after re-assembling the Hit-Air.

For your safety, peace of mind and correct use of your airbag jacket, make sure that items ❶-❹ are confirmed before use as follows:

注意 ⚠ ❶-Unless the Hit-Air is set correctly, it may not work or may cause a malfunction.
❷-Once a CO2 cartridge is activated, it cannot be used again. Remove it from the key box without fail.
❸-Use a Hit-Air CO2 cartridge only. Do not use any other one.

❶ A CO2 cartridge of the right size (capacity) for the model is installed.

The size (capacity) of the cartridge shown on model to model. Make sure that the size (capacity) shown on the seal attached to the CO2 cartridge and that shown at the bottom of the key box cover are the same. (Some models have no size label attached.)

※「If sizes shown as above are not the same, it may cause a malfunction.'
*A description of the size label varies from model to model.

http://www.hit-air.com/Replacement gas cartridge list

❷ Sealed properly (No damage to the seal)

*No seal is attached in case re-assembling is done by yourself.
Unused CO2 cartridge and the key box are properly sealed at the time of shipment. (The key box is sealed.)

*The right size capacity-cartridge for the model is installed.
*A CO2 cartridge is tightly screwed into the key box.
*An used empty cartridge should not be installed.

注意 ⚠ Re-assembling after the activation must be done in accordance with "Re-assembling Key Box".
The key ball must be set only after the used empty cartridge is removed from the key box.

❸ The red slide cover is lifted to the "unlocked (up)" position.

If the CO2 cartridge and the key box are not sealed or if the seal attached is torn at the time of the purchase of a new product, remove the cartridge and make sure that there is no hole at its bottom (at the screw end).

*If there is a hole - it is an used cartridge to be installed in the key box for use.

注意 ⚠ If a CO2 cartridge is screwed into the key box loosely, it may cause a malfunction.
*If the CO2 cartridge with no hole at its bottom is usable.

❹ Is there any deterioration of the wire loop or the coiled wire?

If there are signs of wear and tear, replace it with a new one. We recommend you to replace it in every one or two years.

注意 ⚠ An unused cartridge is to be installed in accordance with "Re-assembling Key Box".

❺ A screw hole at the bottom of the key box is visible.

(The setting bolt is removed)

Make sure that the setting bolt has been removed from the key box. The setting bolt is a tool to be used for setting the key ball into the hole of the key box for re-assembling.

注意 ⚠ The Hit-Air will not be activated if the setting bolt remains in the key box. Make sure that the setting bolt is removed from the key box before using the Hit-Air.

❻ A Coiled Wire is set properly.

The knot tightly to fix a coiled wire to the saddle, a knot works as the stopper to prevent the wire coming off when the Hit-Air is activated and the airbag will not inflate.

注意 ⚠ Without a knot, the wire may come off the Hit-Air at its activation and the airbag will not inflate. If cracks, peeling, burns or wear is found or the Kevlar cord's inner core becomes visible, replace it immediately.

▶Buckle