



SYSTEM

Horse Riding

ヒットエア・エアバッグの仕組み

hit-air airbag system

- As soon as the rider is thrown from the horse, the airbag inflates and protects rider's neck, back, chest, sides and hip.
- Hit-air is rider's wear containing shoulder, elbow and back padding (back padding is only for vests) and airbag system.
- Shock-buffering protection system will be activated immediately after the distance from the rider to the horse exceeds the "activation distance", when the key ball is pulled out from the key box to release CO2 gas into the neck, back, chest, side and hip airbags for lessening the effect of impact on rider's body.
- After the airbag is inflated in full, it leaks the gas slowly through the gas release valve and a feeling of tightness will subside gradually.

Hit-Air Airbag structure

Key box holds a CO2 gas cartridge.
Key ball to be pulled out to release the gas into the airbag instantly.
Coiled wire to be connected to the center of the saddle holder.
One-touch release to connect/disconnect a coiled wire when getting on/off the horse.

CO2 gas released from the gas cartridge inflates the urethane airbag instantly.

Neck airbag
Chest airbag
Sides and back airbag
Hip airbag

※Design and shape of jacket may vary.

S-SYSTEM (S-System) Speed up of airbag deployment!

S-System is an improved key box (a device to activate the airbag system) cutting the deployment time (from activation to full inflation of the airbag) in half.

Ordinary system	S-SYSTEM
Deployment time about 0.5 second	Deployment time about 0.25 second
Key Box color/Black	S-System Key Box color/Gray

Tested by JARI Japan Automobile Research Institute *Deployment time may vary depending on the model and the conditions of use (temperature etc.)

ヒットエアの仕組みと使い方

ワンタッチリリース 馬への乗り降りの際にワンタッチリリースでラクラク!

乗馬や下馬時にベストへの伸縮ワイヤーの接続・取外しもシートベルト感覚でラクラク
乗馬時にサドルホルダーに取付けた伸縮ワイヤーに付いているワンタッチリリースのオス部をベストに付いているワンタッチリリースのメス部と接合して下さい。
下馬時には必ずワンタッチリリースを外してからお降り下さい。ワンタッチリリースを指で押すことにより簡単に外れます。
誤操作防止のためにワンタッチリリースの接合・取外しは、馬に股がった状態で行う様に習慣付けましょう。
YKKと共同開発し、強度を高めたバックスタイプ

Re-assembling Hit-Air

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

Change
New cartridge
Empty cartridge

Screw the CO2 cartridge fully into the bottom until it cannot go any further. Otherwise, a needle in the "key box" may not puncture the seal of the CO2 cartridge and Hit-Air may not be activated properly.

▶エアバッグ(キーボックス)再生方法

キーボールの強力

The key ball requires considerable strength(30-35kg) to be pulled out and will not be released easily because of the elastic nature of the coiled wire, thus the Hit-Air will not inflate under normally anticipated riding conditions including standing on pegs.

Tensile strength **30kg**

Structure and Type of Key Box

With a tensile strength of approximately 30kg-35kg by the "coiled wire", the "key ball" comes out of the "key box". Then a needle in the "key box" is activated and punctures the seal of the gas cartridge to inflate the Hit-Air instantly. The "key ball" can be pulled out from any direction.

Up about 35kg
Right about 35kg
Left about 35kg
Down about 35kg
Front about 30kg

Key Box B-type	Key Box Y-type
<p>CO2 gas cartridge The size (capacity) of the cartridge varies from model to model.</p> <p>Key Box</p> <p>Red Guard (slide cover) Lower the Red Guard only when confirming that the key ball is inserted into the hole of the key box completely. Whenever the airbag is in use, the Red Guard should always be up.</p> <p>Key Ball</p> <p>Buckle type KeyBall set(B-type)</p> <p>One-touch release (Connector)</p>	<p>Air tube</p> <p>CO2 gas cartridge The size (capacity) of the cartridge varies from model to model.</p> <p>Key Box</p> <p>Key Ball</p> <p>Buckle type KeyBall set(Y-type)</p> <p>Key Box plate</p> <p>One-touch release (Connector)</p>

Structure and kind of airbag

airbag jacket-vest

airbag jacket
An airbag system is installed in the jacket.(Detaching airbag system)
CE approved shoulder and elbow padding is fitted as standard equipment.
Soft type back padding is fitted as standard equipment.
This models features various functions appropriate to the season.

airbag vest
An airbag system is installed in the vest.(Detaching airbag system)
Wearable over an ordinary jacket or a raincoat.
Mesh makes it comfortable to wear in any season.
Soft type back padding is fitted as standard equipment.

▶エアバッグシステム脱着について

Model : Vest MV5, MX7, Motorrad-2, Motorrad-2 Mesh

Exposed Neck Cushion (The airbag behind Key Box)

Key Box B-type Jacket and Vest

Before MC3 After

The airbag behind Key Box.

Model : Vest MC3, MX6, JP3(Black), HS3(Red), etc

Exposed Neck Cushion

Key Box B-type Jacket and Vest

Before MC2 After

Model : Vest/MC2, JV, MV3, etc Jacket/JP2, MX5, MS5, HS1, GS3, EU3, Motorrad, GP2, etc

Exposed Neck Cushion

Key Box Y-type Jacket

Before FR2 After

Packed type hip cushion

airbag system protector

all-in-one airbag

Wearable over an ordinary jacket or a raincoat. Designed to minimize contact area with the jacket. Adjust the size using a waist adjuster.

Speed up!
S-system reduces the deployment time of the airbag considerably.

Light weight!
Harness type all-in-one airbag system without outer jacket or vest reduces the overall weight.

All season!
Wearable as a life jacket in any season.

Key Box B-type

Before MLV-C After

Model : MLV-C, SKV(for Kids), MLV-CS, MLV-CM, MLV-CL, etc

Simple structure for smooth inflation and deployment of the airbag.

Key Box B-type Development is fast.

Before H-model After

Model:H-model

Key Box Y-type Lightweight-Model

Before SV-2 After

Model:SV, SV-2, LV

着用する
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