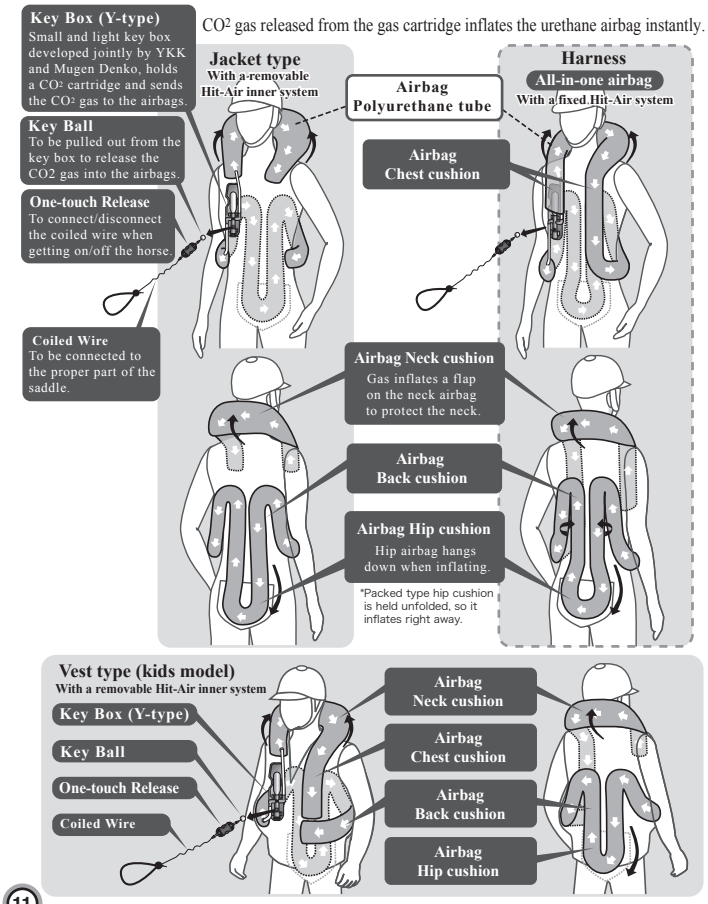
3-2 Diagram of airbag

When activation, neck cushion inflates and stands up instantly.
Body cushion inflates inside jacket/vest.
*Outerwear (Jacket and Vest) has no function to inflate.

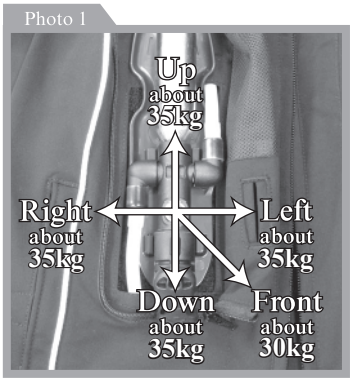


*Shape of model may vary.

4-3 Key Box (Y-type)

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 (Photo 1).

Photo 1



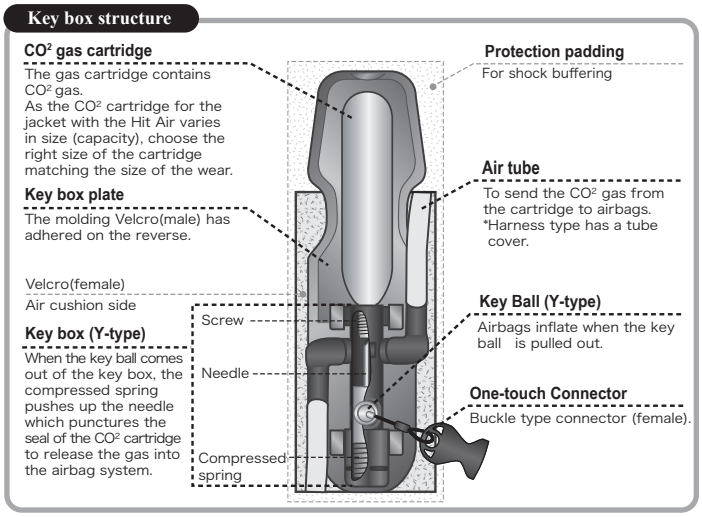
CAUTION ⚠

1. Do not take the "key box" a part or remove any part.

CAUTION ⚠

2. Screw in the gas cartridge fully until it seats firmly but do not over tighten. If anything wrong, consult with an authorized dealer.

Key box structure



4 Structure

4-1 Function

1. As soon as the "activation distance" is reached, the Hit Air is activated and the CO^2 gas is sent into the air cushions so that it will provide protection from the shock of impact even before it is fully inflated.
2. At the back of CO^2 cartridge and the key box, a key box plate (made of plastics) or a buffer material is placed to protect the rider's chest from the projecting objects in case of an accident.
3. After the airbag is inflated in full, the gas will leak out gradually. Depending on the amount of the pressure given to the airbag by the accident, a feeling of tightness may be felt but gradually subsides.

CAUTION ⚠

4. The Hit Air may not function properly, if there is damage to the jacket with the Hit Air, fabric the garment, air cushion, Velcro, fastener, etc. If so, consult with an authorized dealer. The jacket with the Hit Air may not be repairable in some cases.

CAUTION ⚠

5. Whenever the Hit Air is inflated, even if there is no visible damage, we recommend taking the Hit-air to an authorized dealer for a maintenance check (*3).

*3) Even if no damage is visible, there may be damages to the air cushion. Therefore, take the Hit-Air to an authorized dealer for a maintenance check to test the air cushion for leaks and inspect its parts to make sure it will function properly in case of an accident.

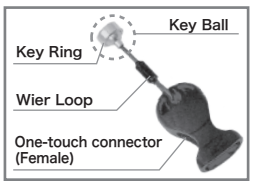
4-2 Air Cushion

1. The air cushions are made of high quality strong polyurethane film to absorb and reduce the shock of impact as much as possible when they are inflated.
2. The maximum pressure is about 20 kpa (0.2 kg/cm^2) when the air cushion is fully inflated, but gradually decreases as gas comes out of the air cushion.
3. The strength against breakage depends on the material of the jacket the material of the inner tube (polyurethane) and the strength of the stitch it also depends on the degree of impact, shape or hardness of the object the rider may hit after the Hit Air inflates.
4. The CO^2 gas is sent from the key box to each air cushion (polyurethane film) through air tube.

○ The Hit-Air is designed to act as a shock absorber and may break depending on the shape of the object against which it strikes and also the extent of impact given.

4-4 Key Ball (Y-type)

The key ball holds a compression spring and an interlocking needle in the key box.
When the system is activated, the key ball comes out of the key box and a needle in the key box is released and punctures the seal of the gas cartridge to inflate the Hit Air immediately.
The key ball and the key ring are integrated parts.



Key ball set (Y-type)

4-5 CO^2 Gas Cartridge

○ The gas cartridge contains CO^2 gas.
○ When the "key ball" is released from the "key box", a needle punctures the seal of the gas cartridge to let the gas go into each air cushion.
○ Screw the CO^2 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 CO^2 cartridge and Hit-Air may not be activated properly.
○ Do not reuse the gas cartridge once used. Change it to a new one. The seal at the bottom of an used cartridge is pierced with a hole.

Observe the followings to avoid an explosion

WARNING ⚠ **1. Keep and use at the temperature below 40ºC/104°F. Do not keep in the car where the temperature may go up high.**

WARNING ⚠ **2. Do not give the cartridge a strong shock.**

WARNING ⚠ **3. Do not heat the cartridge.**

WARNING ⚠ **4. Do not let corrosion form on the surface of the cartridge. If corrosion is noticed, replace it immediately.**

WARNING ⚠ **5. Confirm that the used gas cartridge is empty of gas before disposing.**

WARNING ⚠ **6. Do not cut or puncture the gas cartridge.**

WARNING ⚠ **7. The size (capacity) of the gas cartridge varies from model to model. Install the designated size (capacity) for the model.** Visit http://www.hit-air.com "Replacement Gas Cartridges list" to find out the right size for the jacket.

CAUTION ⚠ 8. Use the gas cartridge for the Hit-Air only, and not for any other purpose.

CAUTION ⚠ 9. Use a Hit-Air CO^2 gas cartridge only. Do not use any other one.

CAUTION ⚠ 10. Keep the gas cartridges out of the reach of children.

CAUTION ⚠ 11. Once the gas cartridge is installed, don't attempt to turn, loosen or remove it.

CAUTION ⚠ 12. Screw the CO^2 cartridge fully until it seats firmly in the key box but do not over tighten.