

4-1 Function

1. As soon as the "activation distance" is reached, the Hit-Air is activated and the CO₂ 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. The CO₂ gas cartridge and the "key box" area is covered by an ABS protector with buffer material to protect the rider's breast 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 a damage to the Hit-Air, cloth of the wear, air cushion, Velcro, zipper, buckle etc. If so, consult with an authorized dealer. The Hit-Air may not be repairable in some cases.

CAUTION ⚠

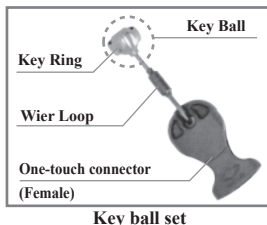
5. Whenever the Hit-Air is inflated, even if there is no visible damage, we recommend taking the Hit-air to an authorized dealer for a maintenance check *1.
*1 Even if no damage is visible, there may be damages to the air cushion. Therefore, take the Hit-Air to an authorized dealer for a maintenance 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 swollen.
 2. The maximum pressure is about 30kpa(0.3kg/cm²) 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 gas is sent from the "key box" to each air cushion through urethane tubing.
- 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.

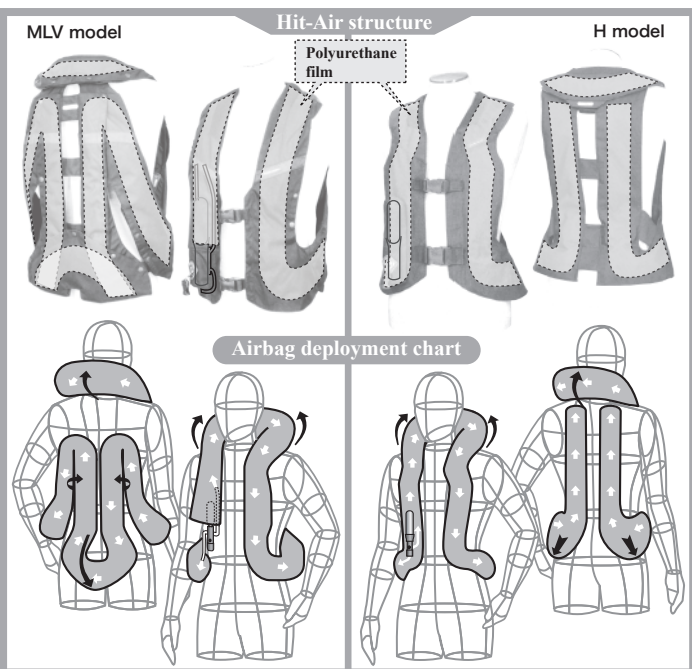
4-4 Key Ball

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.



4-5 Hit-Air structure

Hit-Air all-in-one airbag of polyurethane film is attached directly to the inside of the cover inflates and absorbs the shock of impact.



*Design and shape of model may vary.

4-3 Key Box

○ **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 (Photo 1).

WARNING ⚠ 1.

Do not take the "key box" apart or remove any parts.

○ **Red slide cover**

Whenever using the Hit-Air, make sure the red slide cover is in the "unlocked" (up) position. (Photo 2)

To re-assemble the key box, the red slide cover is to be used to confirm that the key ball is properly set in the hole of the key box. (Photo 3)

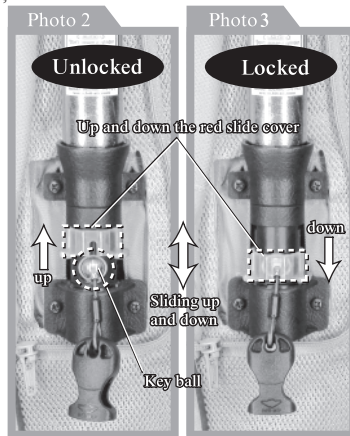
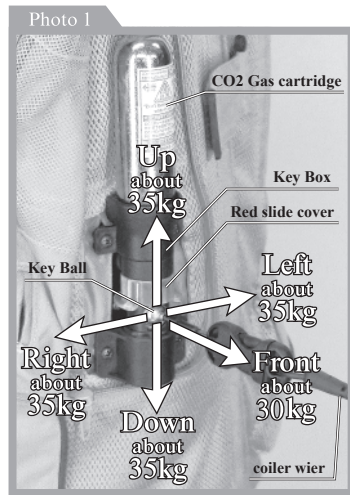
If the key ball is not set in the hole properly, the red slide cover will not come down.

WARNING ⚠ 1.

When the red slide cover is in the "locked" (down) position, the "key ball" cannot be released from the "key box", then the Hit-Air will not be activated. This may cause an injury to the rider in case of an accident. Whenever using the Hit-Air, make sure the red slide cover is in the "unlocked" (up) position. (Photo 2)

CAUTION ⚠ 2.

Even if the red slide cover is in the "locked" position, if the wire is pulled strongly, the "key box" may activate the Hit-Air to inflate. The Hit-Air may also inflate accidentally when the red slide cover is moved from the "locked" position to the "unlocked" position after the wire is pulled strongly.



CO₂ Gas Cartridge

- The gas cartridge contains CO₂ 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 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.
- 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 40°C/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 CO₂ 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 CO₂ cartridge fully until it seats firmly in the key box but do not over tighten.