



Colorado NFPA Firefighter Belt CT2 Series

Ladder Belt, Escape Belt Optional Class II Harness

Instructions for use



You must thoroughly read and understand all instructions prior to use.

Prior to donning the Colorado Firefighter Belts you should visually inspect your belt. Look for any defects in the material and/or workmanship. These could include frayed, cut or worn material. The buckles should look uniform with no cracks, chips or out of shape appearance to them. Be sure to inspect the multi-use leg strap as well. Look for excessive chaffing at the wear points; typically where the Kevlar webbing comes into contact with the metal buckles.

Inspect the tool holders and ensure they are fastened or sewn securely to the belt and in the proper position. The belt should be removed from service and destroyed if the belt does not pass inspection or if there is any doubt about the safety or serviceability of the belt.

Warning: The Colorado Firefighter belt does not provide inversion protection and is not suitable for all rescue harness applications.



Figure 1

Donning the Colorado Firefighter Belt

The CT2 CS S series or L series belts should be donned on the turnout coat, prior to donning your SCBA or on the turnout pants (note: no tools holders can be placed on belt when the belt is worn under the turnout coat. The tools will be inaccessible under the turnout coat. Fig 1.). Position the CT2 around the waist. The multi-use strap pouch (Short or long pouch) should be positioned over the thigh. The D ring should be placed midline to the body. The adjustment strap should be located on the right or left hand side, opposite the Multi-use pouch. Connect the main buckle to the V-ring. Pull the adjustment strap forward to tighten. The belt should be tight but not constrictive. (Fig. 1) shows the proper belt/pouch location (CT2 CF1 belt for turnout pants shown).

The Colorado Firefighter Belts are customized to fit your needs. It comes with 3 standard accessories,

1. Multi Use Strap (which is packed in the Long pouch or Short pouch)
2. Long pouch (Fig 1a.) or short pouch (Fig 1b.), one gear loop set is included with short pouch.
3. Tag Ring (Fig 1c.)



Fig. 1a



Fig. 1b



Fig. 1c

Accessories: (For belts worn over the turnout coat)

1. **Ax Holder** (Fig. 1d.)



Fig. 1d

The ax holder is located on the side of the belt; rearward of the short multi-use strap pouch or near center of the long pouch. One ax keeper is provided with the belt.

To use:

1. Enlarge the webbing ax keeper loop by pulling up on the buckle with the index finger and thumb; allow the webbing to pass through the buckle.
2. Loop the webbing strap of the keeper over the rear of the ax head. In a downward motion, pull the keeper tight over the ax head; this will ensure that the ax will not fall out of the ax holder.
3. Remember to always use the ax keeper whenever carrying an ax in the ax holder. Use caution when carrying (not wearing) the belt as an ax can slip from the holder if the ax is not carried in an upright position.

2. **Tool Holder** (Fig. 1e.)



Fig. 1E

The tool holder is located on the side of the belt opposite of the Short or Long Pouch and the Axe loop. It is like the ax holder without the Ax keeper installed. The tool holder is useful to stow carabiners or carry additional tools such as an officer's A tool.

3. Chainsaw/Flashlight Holder



WARNING: The ring of the chainsaw/flashlight holder is not to be used as a rappel or tether point. The ring is not rated for these applications. Serious injury can occur if this ring is used for any application other than what is described in this instruction.

1. Choose the desired location on the belt. Separate the 1" inch webbing from the 1 1/2" webbing. Disconnect the trigger snap from the round ring.
2. Lark foot the ring loop around the 1" webbing
3. Snap the trigger snap clip to the round ring

Lark foot the trigger snap clip/loop strap to the top handle of the chainsaw; not the brake handle. (Fig.1g) Clip the trigger snap clip into the chainsaw holder ring with the chainsaw handle forward and the bar pointing rearward. (Fig.1h) lark foot the chainsaw holder around a box light handle and clip on to the chainsaw holder O-ring. (Fig. 1i.)

WARNING: Never carry a running chainsaw in the holder unless authorized to do so by the manufacturer.



Fig.1g.

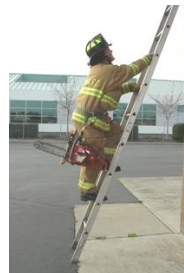


Fig. 1h

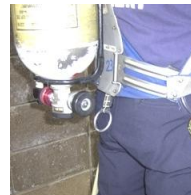


Fig. 1i.

4. Back Tag Ring

The back tag ring is located on the rear of the belt. (Fig. 1j)

The back ring can be used as a tagline or tether connection only. Do not attempt to rappel using the back ring as an attachment point.



Figs. 1j

5. The Multi-Use Strap

The multi-use strap is located in a Velcro pouch located over the left or right hip. This strap has many useful purposes that will be highlighted later. This strap is made of strong Kevlar webbing and parachute rated rings. (Fig.1k)



Fig.1k

6. Deploying the Multi-use strap

Deploy the multi-use strap by grasping the Shane ring on the Multi-use strap and pull forward. . For ease of repacking follow the instructions below.

7. Use as a Ladder Belt

1. Climb to the desired rung of the ladder.
2. Release the multi-use strap from the pouch.
3. Wrap the strap around a rung located above the waist (Fig. 10) and below the shoulders and clip the multi-use strap adjustment buckle on to the D- ring (Fig.11)
4. Adjust the strap to the desired tension by pulling on the tail of the multi-use strap located after the adjustment buckle. (Fig.12)
5. To disconnect: Loosen webbing at the adjustment buckle.
6. Unclip from D-ring and remove the strap from around the rung.
7. Do not attempt to repack strap in pouch. Connect the adjustment buckle to the D-ring and descend the ladder. (Fig.13)
8. Once on the ground, repack the multi-use strap or wrap your leg (see rappelling) until the multi-use strap can be repacked at a more convenient time.



Fig.10

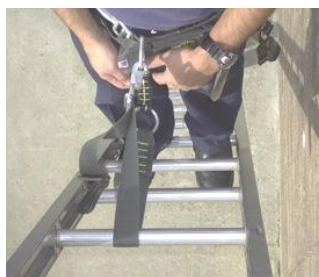


Fig. 11

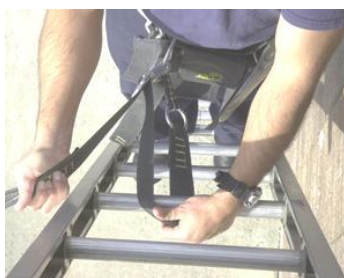


Fig. 12



Fig. 13

8. Securing to an Aerial Platform

1. Release the multi-use strap from the pouch.
2. Connect a steel carabiner to the Shane ring (end of strap). (Fig.15)
3. Clip the carabiner to a suitable attachment point. Fig.(16 & Fig.17)
4. Warning the multi-use strap length is not adjustable in this configuration.
 - a. The exact method of attachment to the basket may vary depending on the basket configuration, size and attachment points.

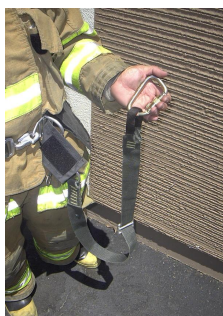


Fig.15



Fig.16

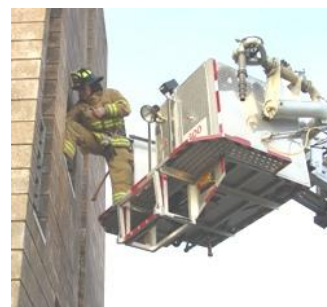


Fig.17

9. Pick-Off Strap (Used to pull firefighter out of a hole or lower out a window)

1. Deploy down firefighter's **Multi-Use Strap** (Fig 18).
2. Wrap tether around and under the arm of the down firefighter (Fig.19).
3. Pass the MUS underneath both shoulder straps of the down firefighter's SCBA (Fig. 20.)
4. Clip the hauling line onto the Shane Ring (end of the Multi Use Strap) Fig. 21



Fig. 18



Fig. 19



Fig. 20



Fig. 21

10. Drag Strap Method

The Pick-Off Strap Method can also be used for dragging.

1. With the firefighter laying down clip your multi-use strap to the victims pick off strap. (Fig. 22 & Fig. 23)



Fig. 22



Fig.23

11. Stair Carry Method:

The stair carry method can be used to carry a down firefighter up the stairs.

1. Deploy the down firefighter's Multi-Use Strap (Fig. 18)
2. Move the adjusting buckle to the end of the Multi-Use Strap (Fig. 24)
3. Pass the Multi-Use Strap under the down firefighter's leg (Fig. 25)
4. Attach the adjusting buckle of the down firefighter Multi-Use Strap to your D ring (Fig. 26).
5. Move the down firefighter to a sitting position. Tighten the down firefighter's Multi-Use Strap. (Fig. 27)
6. Squat behind the down firefighter and prepare to lift. (Fig. 28 & 29)
Note: The load is on the hips



Fig. 24



Fig. 25



Fig. 26



Fig. 27



Fig. 28



Fig. 29

12. Steep Roof Ventilation Operations

In order to accomplish vertical ventilation on a steep roof firefighters have relied on a foothold provided by the roof ladder and a pick head ax wedged into the roof decking. This can be particularly dangerous if the roof surface is slick or very steep. Practice this technique and see if you don't feel more secure.

1. Prepare the Colorado Trucker's belt as if you were preparing to rappel (see steps 1-6 of Rappelling for bailout or low-angle rescue). Remember to connect the steel carabiner to the D-ring. Never connect the carabiner to the V-ring.
2. Have at least a 6'-8' tether readily available in a pocket.
3. Follow your department's standard operating procedures for securing access to the roof and bring tools and a roof ladder aloft.
4. Determine where you want to cut the ventilation hole. Use the six-foot tether and lark foot around a rung of the roof ladder two rungs above where you want to cut the hole and clip the tether into a carabiner connected to the D-ring on the belt. You are now tethered to the ladder.
5. **Maintain a person** at the foot of the roof ladder to maintain ladder stability.
6. For safety, always keep one foot on the ladder and do not over extend your arms. Work within a comfortable range. Follow your department Standard Operating Procedures.
7. Prior to completing the final cut and punching through the ceiling, return to the ladder and disconnect the tether from your belt. Complete the final cut and punch through. This technique will allow for a hasty retreat from flame and smoke if needed. Leave the tether on the ladder. The tether will come down with the roof ladder.
8. Always ensure that your tether is not exposed to excessive heat or flames as this could cause failure of the tether; resulting in an unrestrained fall from the roof.



13. Rappelling for Bailout or Low Angle Rescue

The CT2 without the optional class II leg harness should not be substituted for a high angle rescue harness. However, it is very useful as a bailout rappelling device or for use during low angle rescue evolutions.

1. Release the multi-use strap from the pouch.
2. Adjust the belt so that the D ring is at the midline of the body and the multi-use strap hangs between the legs. Take a half step forward with the leg to be wrapped and bend slightly at the knee. The strap is wrapped around the opposite leg of the pouch. (Fig.18).
3. Note the raised sewn edge of the multi-use strap located after the O ring and place against your inner thigh. Wrap the multi-use strap between the legs; behind and around the forward leg and clip the adjustment buckle to the O-ring with a downward motion.
4. Pull the webbing beyond the adjustment buckle to tighten.
5. When you return to a standing position the strap will feel tighter.



Fig.18

6. Connect a steel carabineer to the D ring or have it in place at all times.
7. Connect the rope to the mini-eight plate other suitable descending device. Connect the descending device to the steel carabineer.

14. Class II Harness (One Leg in Place, for Belt on Turnout Pant Only)



Fig. 20



Fig.21.

15. Creating a Class II Harness with the Optional Leg Harness Strap

The CT2 Series belts can be converted into a NFPA Class II harness if equipped with the Optional leg harness strap.

To create a class II harnesses:

1. Don the CT2 in the normal fashion and secure the waist strap.
2. Release the multi-use strap from the pouch.
3. Adjust the belt so that the D- ring is at the midline of the body and the multi-use strap hangs between the legs. Take a half step forward with the right leg and bend slightly at the knee.
4. Place the raised sewn edge of the multi-use strap against your thigh, Wrap the multi-use strap between the legs, behind and around the leg and clip the adjustment buckle to the O-ring with a downward motion. Remember wrap the leg opposite of the pouch. Fig. 23
5. Pull the webbing tail beyond the adjustment buckle to tighten.
6. Deploy the class II leg harness strap.
7. Connect the carabineer on the optional leg strap to the D ring on to the belt (Fig. 24). The sewn edge of the strap should be against the inner thigh. Wrap around the leg and clip buckle onto the O-ring of the optional leg strap (Fig.25)
8. Tighten the strap. The strap should be tight but not constrictive (Fig. 26).
9. Attach a carabiner, eight-plate or other suitable descending device to the D-ring. (Fig.27)



Fig. 23



Fig. 24



Fig. 25



Fig. 26



Fig.27

16. Rappelling



Warning! Rappelling is a technical skill that should be taught by a knowledgeable instructor. Failure to receive competent instruction could lead to serious injury or death. When training always use a safety line.

17. Repacking the Multi-Use Strap in the short pouch

1. Short Pouch (Fig 11.): Open the short Velcro pouch and accordion fold the multi-use strap within the pouch. Reseal the pouch connecting the top and bottom flap.



Fig. 11.

18. Repacking the Multi-Use Strap into the Long Pouch.

After using the multi-use strap secure the strap around your leg to form the harness. See "Rappelling for Bailout or Low Angle Rescue".

To repack the multi-use strap, follow the example shown in the pictures below. Failure to repack the multi-use strap properly can make the strap difficult to deploy.



Step 1: Open the pouch and lay the strap front to back, pouch notice the buckle (Dutchmen).



Step 2: Lay the strap over the buckle.



Step 3: The strap is folded with the Shane ring protruding from the front of the pouch.



Step 4: Fold the pouch over the multi-use strap snugly.



Step 5: Secure the Velcro on the rear snug

Care Instructions: **Important!**

Carefully inspect your Colorado Firefighter belt on a regular basis.

Do not store your Colorado Firefighter belt in direct sunlight. Kevlar fiber material will break down if exposed to UV light (sunlight).

The Colorado Firefighter belt can be washed with mild soap and water and air dried out of direct sunlight.

Tethers

Tethers supplied with your belt or users supplied are an integral part of the Colorado Trucker belt system. You must ensure that the tethers are in good condition. Any question regarding the integrity of a tether and it should be replaced. Frequently inspect the wristlet and large tether. Any signs of abrasion, cutting, fraying, discoloration or hardening of a nylon tether, or excessive loading or shock loading and the tether should be replaced. Your life may depend on it.

Additional Uses:

As new or different techniques are found for uses of the Colorado Trucker's belt they will be posted on our web site at www.fireinnovations.com Please share any special uses you have developed so we can post them on the web as well. Thanks in advance for your help and support.

Keep these instructions:

Keep the user instructions/information after it is separated from the belt and retain it in a permanent record. Copy the user instructions/information and maintain a readily available copy for easy reference. This instruction can be printed or upon request a printed-paper copy can be obtained from Fire Innovations.

Refer to the user instructions/information before and after each use.

Additional information regarding belts can be found in NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, and NFPA 1983, Standard on Fire Service Life Safety Rope and System Components.

Warranty Information:

The Colorado Firefighter belt and accessories are warranted to be free of defects in materials or workmanship for 3 months. For warranted repairs contact Fire Innovations at 707-763-9900 for return authorization and instructions. If you question the integrity of your belt it must be taken out of service. Additional out of service criteria can be found in NFPA 1983 2001 addition.

All repair work must be authorized and completed by Fire Innovations. No exceptions.

Belt Record:

A belt record should be kept to document loads placed on the belt as well as repairs or special circumstances such as intense heat or chemical exposure that could affect the service life of the belt. A sample record is provided on the next page.

