

WARRANTY: All Ritz Fall Protection products bear 1- year warranty against manufacturing defects, applicable to unused Ritz Fall Protection products, from the date of purchase. However, Ritz Fall Protection shall not be liable for any accident or damage while the product is in use.

LIFESPAN: The estimated product Lifespan of this product is 10- years from the date of manufacturing. The following factors can reduce the Lifespan of the product : intense use, contact with chemical substances, especially aggressive environment, extreme temperature exposure, UV exposure, abrasion, cuts, violent impacts, bad use, or maintenance.

DISCLAIMER: This information on the product is based upon technical data that Ritz Fall Protection obtained under laboratory conditions and believes to be reliable. Ritz Fall Protection does not guarantee results and takes no liability or obligation in connection with this information. As conditions of end-use are beyond our control, it is the user's responsibility to determine the hazard levels and the use of proper personal protective equipment. Persons having technical expertise should undertake evaluation under their own specific end-use conditions, at their own discretion and risk. Please ensure that this information is only to check that the product selected is suitable for the intended use. Any product that is damaged, torn, worn, or punctured should be immediately discontinued from usage.

EQUIPMENT RECORD

Product		
Model & type/identification	Trade Name	Identification number
Manufacturer	Address	Tel, email into use
Year of manufacture	Purchase Date	Date first put into use

Other relevant information (eg. document number)

PERIODIC EXAMINATION AND REPAIR HISTORY

Date	Reason for entry (periodic examination or repair)	Defects noted, repairs carried out and other relevant information	Name and signature of competent person	Periodic examination next due date

Ritz

FALL PROTECTION

USER INSTRUCTION MANUAL



FULL BODY HARNESS

THIS INSTRUCTION MANUAL APPLIES TO THE FOLLOWING SERIES OF MODELS:

- RTZC3DTBSM, RTZC3DTBU, RTZC3DTBXL,
- RTZC3DTB2X, RTZC3DTB3X, RTZBLC3DTBSM,
- RTZBLC3DTBU, RTZBLC3DTBXL, RTZBLC3DTB2X,
- RTZBLC3DTB3X

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FALL PROTECTION
 800-451-3077 | RitzSafety.com



ANSI Z 359.11-2021
 OSHA 1926 & CSA



Please read and understand the manufacturer's instructions for each component or part of the complete system. Manufacturer's instructions must be followed for proper use, care, and maintenance of this product. These instructions must be retained and be kept available for the user's reference at all times. Alterations or misuse of this product, or failure to follow instructions, may result in serious injury or death.

NOTE: The user is advised to keep this user instructions document for the life of the product.

MANUFACTURER	:	Ritz Fall Protection 1-800-451-3077 and RitzSafety.com
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THIS INSTRUCTION MANUAL APPLIES TO THE FOLLOWING SERIES OF HARNESS MODELS:

HARNESS SERIES	COVERED MODELS
ROBUST Full Body Harness series & Work Positioning Belt	RTZC3DTBSM, RTZC3DTBU, RTZC3DTBXL, RTZC3DTB2X, RTZC3DTB3X, RTZBLC3DTBSM, RTZBLC3DTBU, RTZBLC3DTBXL, RTZBLC3DTB2X, RTZBLC3DTB3X

- 1. INTRODUCTION:** This manual must be read and understood in its entirety and used as part of fall protection training program as required by OSHA or any state regularity agency. These instructions are intended to meet the manufacturer instructions as required by ANSI Z 359.11-2021 and OSHA 1926. The user must fully understand the proper equipment use and limitations.

The Full Body Harness Models RTZC3DTBSM, RTZC3DTBU, RTZC3DTBXL, RTZC3DTB2X, RTZC3DTB3X, RTZBLC3DTBSM, RTZBLC3DTBU, RTZBLC3DTBXL, RTZBLC3DTB2X, RTZBLC3DTB3X also comply standard CSA Z259.1-05.

The Equipment is designed for use as a part of a personal fall protection system. Components must not be used for any other operation other than that which it has been designed and approved. Fall Arrest system are designed to comply with OSHA. Fall Restraint System must be designed by a Qualified Person, and must be installed and used under the supervision of a competent person.

The Work Positioning Belt has been categorized as Class P which is equipped with side D-rings, tongue buckles and waist pads. The belts are available in various sizes.

When supported by the sternal attachment during a fall, the design of the FBH shall direct load through the shoulder straps supporting the user and around the thighs. Supporting the user, post fall, by the sternal attachment will result in roughly a sitting or cradled body position with weight concentrated on the thighs, buttocks and lower back. Supporting the user during work positioning by this sternal attachment will result in an approximate upright body position. If the sternal attachment is used for fall arrest, the competent person evaluating the application should take measures to ensure that a fall can only occur feet first. This may include limiting the allowable free fall distance. It may be possible for a sternal attachment incorporated into an adjustable style chest strap to cause the chest strap to slide up and possibly choke the user during a fall, extraction, suspension, etc. The competent person should consider FBH models with a fixed sternal attachment for these applications.

12. **Frontal** – The frontal attachment serves as a ladder climbing connection for guided type fall arresters where there is no chance to fall in a direction other than feet first or may be used for work positioning. Supporting the user, post fall or during work positioning, by the frontal attachment will result in a sitting body position with the upper torso upright with weight concentrated on the thighs and buttocks. When supported by the frontal attachment the design of the FBH shall direct load directly around the thighs and under the buttocks by means of the sub-pelvic strap. If the frontal attachment is used for fall arrest, the competent person evaluating the application should take measures to ensure that a fall can only occur feet first. This may include limiting the allowable free fall distance.
13. **Shoulder** – The shoulder attachment elements shall be used as a pair and are an acceptable attachment for rescue and entry/retrieval. The shoulder attachment elements shall not be used for fall arrest. It is recommended that the shoulder attachment elements be used in conjunction with a yoke which incorporates a spreader element to keep the FBH shoulder straps separate.
14. **Waist, Rear** – The waist, rear attachment shall be used solely for travel restraint. The waist, rear attachment element shall not be used for fall arrest. Under no circumstances is it acceptable to use the waist, rear attachment for purposes other than travel restraint. The waist, rear attachment shall only be subjected to minimal loading through the waist of the user and shall never be used to support the full weight of the user.
15. **Hip** – The hip attachment elements shall be used as a pair and shall be used solely for work positioning. The hip attachment elements shall not be used for fall arrest. Hip attachments are often used for work positioning by arborists, utility workers climbing poles and construction workers tying rebar and climbing on form walls. Users are cautioned against using the hip attachment elements (or any other rigid point on the FBH) to store the unused end of a fall arrest lanyard as this may cause a tripping hazard or, in the case of multiple leg lanyards, could cause adverse loading to the FBH and the wearer through the unused portion of the lanyard.
16. **Suspension Seat** – The suspension seat attachment elements shall be used as a pair and shall be used solely for work positioning. The suspension seat attachment elements shall not be used for fall arrest. Suspension seat attachments are often used for prolonged work activities where the user is suspended allowing the user to sit on the suspension seat formed between the two attachment elements. An example of this use would be window washers on large buildings.

USER INSPECTION, MAINTENANCE AND STORAGE OF EQUIPMENT

Users of personal fall arrest systems shall, at a minimum, comply with all manufacturer instructions regarding the inspection, maintenance and storage of the equipment. The user’s organization shall retain the manufacturer’s instructions and make them readily available to all users. See ANSI/ASSP Z359.2, Minimum Requirements for a Comprehensive Managed Fall Protection Program, regarding user inspection, maintenance and storage of equipment.

1. In addition to the inspection requirements set forth in the manufacturer’s instructions, the equipment shall be inspected by the user before each use and additionally by a competent person, other than the user, at interval of no more than one year for:
 - Absence or illegibility of markings.
 - Absence of any elements affecting the equipment form, fit or function.
 - Evidence of defects in, or damage to, hardware elements including cracks, sharp edges, deformation, corrosion, chemical attack, excessive heating, alteration and excessive wear.
 - Evidence of defects in, or damage to, strap or ropes including fraying, unsplicing, unlaying, kinking, knotting, roping, broken or pulled stitches, excessive elongation, chemical attack, excessive soiling, abrasion, alteration, needed or excessive lubrication, excessive aging and excessive wear.
2. Inspection criteria for the equipment shall be set by the user’s organization. Such criteria for the equipment shall equal or exceed the criteria established by this standard or the manufacturer’s instructions, whichever is greater.
3. When inspection reveals defects in, damage to, or inadequate maintenance of equipment, the equipment shall be permanently removed from service or undergo adequate corrective maintenance by the original equipment manufacturer or their designate before return to service.

MAINTENANCE AND STORAGE





1. Maintenance and storage of equipment shall be conducted by the user’s organization in accordance with the manufacturer’s instructions. Unique issues, which may arise due to conditions of use, shall be addressed with the manufacturer.
2. Equipment, which is in need of, or scheduled for, maintenance shall be tagged as unusable and removed from service.
3. Equipment shall be stored in a manner as to preclude damage from environmental factors such as temperature, light, UV, excessive moisture, oil, chemicals and their vapors or other degrading elements.

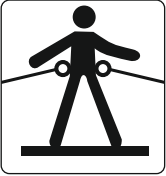
2. FULL BODY HARNESS APPLICATIONS:

Ritz Fall Protection harnesses are designed to arrest the victim of fall and hold the user until the rescue process has been performed, until then the harness needs to be attached to the anchorage through a proper attachment system. It is important that the whole system must have the all the essential components before going for the use. The whole fall arrest system must be used by the trained/competent person.

When used as a component in a personal fall arrest system, or a personal restraint system, the Ritz Fall Protection harnesses provide workers with the full body harness system designed to allow the body to help absorb the impacts of a fall should one occur.

It is advisable to make a checklist of the essential components according to one's use before going for work.

Application	CSA Class	Description
Personal Fall Arrest	 Class A	The full body harness is used as a component of a personal fall arrest system. Personal fall arrest systems typically include a full body harness and a connecting subsystem (energy absorbing lanyard). Maximum arresting force must not exceed 1,800 lbs (8 kN). For fall arrest applications connect the fall arrest subsystem (example: lanyard, SRL, energy absorber, etc.) to the D-ring or attachment element on your back, between your shoulder blades.
Controlled Descent	 Class D	For controlled descent applications, harnesses equipped with a single sternal level D-ring, one or two frontal mounted D-rings, or a pair of connectors originating below the waist (such as a seat sling) may be used for connection to a descender or evacuation system (reference in Z259.10 in Canada).
Rescue	 Class E	The full body harness is used as a component of a rescue system. Rescue systems are configured depending on the type of rescue. For limited access (confined space) applications, harnesses equipped with D-rings on the shoulders may be used for entry and egress into confined spaces where worker profile is an issue.
Ladder Climbing	 Class L	The full body harness is used as a component of a climbing system to prevent the user from falling when climbing a ladder or other climbing structure. Climbing systems typically include a full body harness, vertical cable or rail attached to the structure, and climbing sleeve. For ladder climbing applications, harnesses equipped with a frontal D-ring in the sternal location may be used for fall arrest on fixed ladder climbing systems. These are defined in ANSI A14.3 in the United States.

Application	CSA Class	Description
Work Positioning	 <p>Class P</p>	The full body harness is used as a component of a work positioning system to support the user at a work position. Work positioning systems typically include a full body harness, positioning lanyard, and a back-up personal fall arrest system. For work positioning applications, connect the work positioning subsystem (example: lanyard, Y-lanyard, etc.) to the lower (hip level) side or belt mounted work positioning attachment anchorage elements (D-rings). Never use these connection points for fall arrest.
Restraint	None	The full body harness is used as a component of a restraint system to prevent the user from reaching a fall hazard. Restraint systems typically include a full body harness and a lanyard or restraint line.

3. APPLICATIONS OF WORK POSITIONING SYSTEM:

- **Purpose:** The Work Positioning Belt is intended for use as part of a work positioning or fall restraint system. This equipment is not designed as impact absorbing body wear and must not be used as the sole body wear component of a Personal Fall Arrest System. Work positioning belt must be integrated into a compatible Full Body Harness, one which is designed and built to accommodate an added Work Positioning belt through belt loops.
- **Personal Fall Arrest:** A Personal Fall Arrest System is typically composed of an anchorage and a Full Body Harness, with an energy absorbing connecting device, i.e., a Shock Absorbing Lanyard, an Self Retracting Device, or a Fall Arrester Connecting Subsystem, attached to the dorsal D-ring of the Full Body Harness.
- **Swing Fall:** Swing falls occur when a worker is not working directly under the anchorage. During this type of fall event, the worker will swing, and may impact obstructions, causing severe injuries. A swing fall while using a Self Retracting Device may be more dangerous due to the added length of the Self Retracting Device lanyard.
- Always work as close to directly under any anchorage as possible.
- **Work Positioning:** Ritz Fall Protection Work Positioning Belt is designed to be used as a component in a Work Positioning System to support the worker at a work position and allow the free use of both hands to perform tasks. Work Positioning Systems typically include a positioning belt, a positioning lanyard, and connectors. A Work Positioning System is not a fall protection system. When using a Work Positioning System, an integrated Personal Fall Arrest System is required.
- **Fall Restraint:** Ritz Fall Protection Work Positioning Belt may also be used as a restraint belt. The lanyard may be attached to any D-ring, to prevent a worker from reaching a fall hazard.
- **Application Limits:** Take action to avoid moving machinery, sharp edges, abrasive surfaces, and thermal, electrical and chemical hazards as contact may cause serious injury or death.
- **Capacity:** The capacity of the anchors in Specifications is listed as 425 lbs. (193 kg). To maintain ANSI Z359 compliance, limit user weight to no more than 310 lbs. (140 kg) including clothing, tools, etc.

4. **INSPECTION:** Before each use, proceed with thorough visual examination to ensure that the PPE is intact (the same applies for the equipment used with the harness (connectors, lanyard...) and take all necessary steps concerning the implementation of rescue in total safety. In the event of your product being contaminated, consult the manufacturer or his agent. If you have any doubts regarding the safe state of the product or if the product has been used to arrest a fall, for your personal safety, it is essential to withdraw the PPE from service and send it back to the manufacturer or a qualified repair center for checking or destruction. Check for Fall Indicator provided on back shoulder straps of Harness for deployment. If found deployed then should be taken out from the use with immediate effect. Following the inspection, the center will provide written authorization or refusal for the use of the PPE. Never attempt to modify or repair PPE.

Annex A – Normative

Note: The following information from the ANSI/ASSP Z359.11 standard is required to be included in the instruction manual for the end user. The manufacturer of this equipment may impose more stringent restrictions on the use of the products they manufacture; see the manufacturer's instructions.

1. It is essential that the users of this type of equipment receive proper training and instruction including detailed procedures for the safe use of such equipment in their work application. ANSI/ASSP Z359.2, Minimum Requirements for a Comprehensive Managed Fall Protection Program, establishes guidelines and requirements for an employer's managed fall protection program including policies, duties and training; fall protection procedures; eliminating and controlling fall hazards; rescue procedures; incident investigations; and evaluating program effectiveness.
 2. Correct fit of a full body harness (FBH) is essential to proper performance. Users must be trained to select the size and maintain the fit of their FBH.
 3. Users must follow manufacturer's instructions for proper fit and sizing, paying particular attention to ensure that buckles are connected and aligned correctly, leg straps and shoulder straps are kept snug at all times, chest straps are located in the middle chest area and leg straps are positioned and snug to avoid contact with the genitalia should a fall occur.
 4. FBHs which meet ANSI/ASSP Z359.11 are intended to be used with other components of a personal fall arrest system that limit maximum arrest forces to 1800 pounds (8kN) or less.
 5. Suspension intolerance, also called suspension trauma or orthostatic intolerance, is a serious condition that can be controlled with good harness design, prompt rescue and post fall suspension relief devices. A conscious user may deploy a suspension relief device allowing the user to remove tension from around the legs, freeing blood flow, which can delay the onset of suspension intolerance. An attachment element extender is not intended to be attached directly to an anchorage or anchorage connector for fall arrest. An energy absorber must be used to limit maximum arrest forces to 1800 pounds (8kN). The length of the attachment element extender may affect free fall distances and free fall clearance calculations.
 6. FBH stretch, the amount the FBH component of a personal fall arrest system will stretch and deform during a fall, can contribute to the overall elongation of the system in stopping a fall. It is important to include the increase in fall distance created by FBH stretch, as well as the FBH connector length, the settling of the user's body in the FBH and all other contributing factors when calculating total clearance required for a particular fall arrest system.
 7. When not in use, unused lanyard legs that are still attached to a FBH D-ring should not be attached to a work positioning element or any other structural element on the FBH unless deemed acceptable by the competent person and manufacturer of the lanyard. This is especially important when using some types of "Y" style lanyards, as some load may be transmitted to the user through the unused lanyard leg if it is not able to release from the harness. The lanyard parking attachment is generally located in the sternal area to help reduce tripping and entanglement hazards.
 8. Loose ends of straps can get caught in machinery or cause accidental disengagement of an adjuster. All FBH shall include keepers or other components which serve to control the loose ends of straps.
 9. Due to the nature of soft loop connections, it is recommended that soft loop attachments only be used to connect with other soft loops or carabiners. Snaphooks should not be used unless approved for the application by the manufacturer.
- Sections 10-16 provide additional information concerning the location and use of various attachments that may be provided on this FBH.**
10. **Dorsal** – The dorsal attachment element shall be used as the primary fall arrest attachment unless the application allows the use of an alternate attachment. The dorsal attachment may also be used for travel restraint or rescue. When supported by the dorsal attachment during a fall, the design of the FBH shall direct load through the shoulder straps supporting the user and around the thighs. Supporting the user, post fall, by the dorsal attachment will result in an upright body position with a slight lean to the front with some slight pressure to the lower chest. Considerations should be made when choosing a sliding versus fixed dorsal attachment element. Sliding dorsal attachments are generally easier to adjust to different user sizes, and allow a more vertical rest position post fall, but can increase FBH stretch.
 11. **Sternal** – The sternal attachment may be used as an alternative fall arrest attachment in applications where the dorsal attachment is determined to be inappropriate by a competent person and where there is no chance to fall in a direction other than feet first. Accepted practical uses for a sternal attachment include, but are not limited to, ladder climbing with a guided type fall arrester, ladder climbing with an overhead self-retracting lifeline for fall arrest, work positioning and rope access. The sternal attachment may also be used for travel restraint or rescue.

19. PERIODIC EXAMINATION:

- Keep these instructions with the product and fill in the identification sheet, entering the information taken from the markings.
- The periodic examination is essential to test the resistance and condition of the equipment and to guarantee the safety of the user.
- A qualified person must examine this equipment at least once each year in strict compliance with the instructions of the manufacturer and the previous check must be recorded on the attached sheet.
- The frequency of inspection should be increased in accordance with the regulations, if the equipment is in heavy usage or if the equipment is used in harsh environments.
- Check also that the markings are legible.

20. MATERIAL & CONSTRUCTION:

Webbing Materials:

- Made up of high tenacity polyester;
- Breaking strength 5000 lbs Tensile Strength
- Made up of Aramid, breaking strength 5000lbs tensile strength

Pad and Label Cover Materials:

- All outer fabric is Polyester/ Aramid blended fabric.
- Fire Resistant Hook and Loop Fasteners
- Blend of Nylon and Polyester.

21. HOW TO DISPOSE OF A FULL BODY HARNESS:

When the harness becomes unfit or in case of any wear and tear, dispose of it immediately.

Follow steps below for Disposal:

- Segregate the equipment in three different crates for placing components in them respectively as- Textile, Metal and Plastic.
- Hold the Harness from Dorsal D-ring.
- Inspect the wear & tear present on the Harness.
- Now, using a sharp pair of scissors first cut the Textile and dismantle the harness.
- Now remove the metal & plastic components separately from the harness.
- Put the Textile, Plastic & Metal components in their respective plastic crates.
- Once segregation done, arrange to send them for recycling or disposal (as appropriate) through authorized agencies as per local or national law.

22. MAINTENANCE & CLEANING: Repairs to equipment can be made only by a Ritz Fall Protection representative or person or entity authorized by Ritz Fall Protection. Contact Ritz Fall Protection for maintenance and repair. Cleaning after use is important for maintaining the safety and life of the equipment. Cleanse the equipment of all dirt, corrosives, and contaminants. If the equipment cannot simply be wiped clean use a mild soap and water. Rinse, wipe, and hang to dry in shade.

23. STORAGE: Store the harness in a cool, dry and clean place out of direct sunlight. Avoid areas where heat, moisture, light, oil, and chemicals or their vapors or other degrading elements may be present. Equipment which is damaged or in need of maintenance should not be stored in the same area as usable equipment. Heavily soiled, wet, or otherwise contaminated equipment should be properly maintained (e.g. dried and cleaned) prior to storage. Prior to using equipment which has been stored for long periods of time, a Formal Inspection should be performed by a competent person. For harnesses with Dielectric buckles, pass-thru buckles or Quick Connect Buckles, store the harness with the buckles connected.

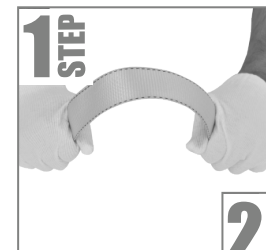
24. TRAINING: It is the responsibility of the users to assure that they read, understand, and follow all instructions and are trained in the care and use of this device. Training should be repeated periodically and any time there is a change of components within the system. Training must be conducted without exposing the trainee to a fall hazard.

BEFORE EACH USE OF THIS EQUIPMENT INSPECT IT ACCORDING TO THE FOLLOWING GUIDELINES:

- A formal inspection of fall protection products/components must be performed at least every six months by a competent person other than the user.
- The frequency of formal inspections should be based on conditions of use or exposure.
- Record the inspection results in the inspection and maintenance log at the end of this manual.

Step 1: Webbing/Stitches:

Grasp the webbing with your hands 6 inches (152mm) to 8 inches (203mm) apart. Bend the webbing in an inverted "U" as shown. The surface tension resulting makes damaged fibers or cuts easier to detect. Follow this procedure the entire length of the webbing, inspecting both sides of each strap. Watch for frayed edges, broken fibers, pulled stitches, cuts, burns, and chemical damage.



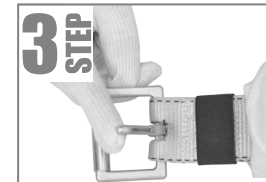
Step 2: D-Rings/Pads:

Check D-rings for distortion, cracks, breaks, and rough or sharp edges. The D-ring should pivot freely. Inspect for any unusual wear, frayed or cut fibers, or broken stitching of the D-ring attachments. Pads should also be inspected for cracks, excessive wear, or other signs of damage.



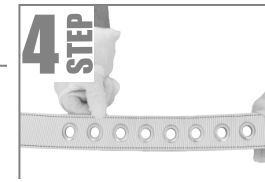
Step 3: Buckles:

Inspect for any unusual wear, frayed or cut fibers, or broken stitching of the buckle attachments.



Step 4: Tongue Buckles/Grommets:

Buckle tongues should be free of distortion in shape and motion. They should overlap the buckle frame and move freely back and forth in their socket. Roller should turn freely on frame. Check for distortion or sharp edges. Inspect for loose, distorted or broken grommets. Webbing should not have additional punched holes.



Step 5: Friction and Slotted Mating Buckles:

Inspect the buckle for distortion. The outer bars and center bars must be straight. Pay special attention to corners and attachment points at the center bar.



Step 6: Quick-Connect Buckles:

Inspect the buckle for distortion. The outer bars and center bars must be straight. Make sure dual-tab release mechanism is free of debris and engages properly.



Note: All authorized persons/users must refer the regulations governing occupational safety, as well as applicable ANSI or CSA standards. Please refer to product labeling for information on specific OSHA regulations, and ANSI and CSA standards met by product.

5. PRECAUTIONS:

- Consult a doctor if there is any reason to doubt a user's ability to withstand and safely absorb fall arrest forces. Age, fitness, health conditions can seriously affect the worker if a fall occurs. Pregnant Women and minors should not use this equipment.
- Proper precautions should always be taken to remove any obstructions, debris, material, or other recognized hazards from the work area that could cause injuries or interfere with the operation of the system. All equipment must be inspected before each use according to the manufacturer's instructions. All equipment should be inspected by a qualified person on a regular basis.
- To minimize the potential for accidental disengagement, a competent person must ensure system compatibility.
- Any product exhibiting deformities, unusual wear, or deterioration must be immediately discarded. Any equipment subject to a fall must be removed from service. The authorized person/ user shall have a rescue plan and the means at hand to implement it when using this equipment.
- All synthetic material must be protected from slag, hot sparks, open flames, or other heat sources. The use of heat resistant materials is recommended in these applications.
- Never use natural materials (manila, cotton, etc.) as part of a fall protection system.
- Do not expose this equipment to chemicals which may have a harmful effect on the materials used to construct it. Be especially aware of caustic environment, or those that contain high levels of organic acids or bases. If you are uncertain about the safe operation of this equipment in any environment, contact Ritz Fall Protection for further instructions.
- Rescue operation must be performed by the trained and competent personnel. The rescue operation must be performed under the supervision of the rescue expert team or personnel. It is advised that while working on site work in pairs. Before going for the work the user must have the rescue plan according to the work.

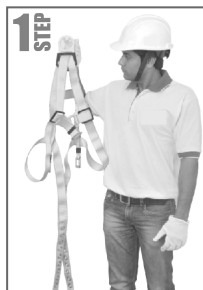
6. SYSTEM REQUIREMENTS: Compatibility of Components:

- Ritz Fall Protection Fall Protection equipment is designed to be used with Ritz Fall Protection approved components.
- Please contact Ritz Fall Protection if you have a question regarding compatibility.
- Making substitutions without approval from Ritz Fall Protection may lead to injuries and or death by compromising the safety and reliability of the complete system.
- A Qualified person can make a determination on compatibility of equipment from different manufacturers.
- Compatibility of Connectors: Connectors (D-rings, hooks, carabiners) must be capable of supporting at least 5,000 lbs. (22kN).
- Do not use equipment that is not compatible.
- Non-compatible connectors may unintentionally disengage.
- Self-locking snap hooks and carabiners are required by CSA, ANSI and OSHA.
- Connectors must be compatible in size, shape, and strength.

Making Connections:

- Only use self-locking snap hooks and carabiners with any Ritz Fall Protection Fall Protection equipment.
- Do not use equipment that is not compatible.

7. DONNING ON THE FULL BODY HARNESS: Full body harnesses are the only form of body wear to be used for fall protection/fall arrest. It is very important to have a proper fitting harness throughout the entire course of a work shift. Do not allow your harness to become loose or slack. The following procedure will describe how to properly "don" (put on) a harness. The location of the chest, leg and sub-pelvic straps are critical to the optimal performance of a full-body harness in a fall arrest.



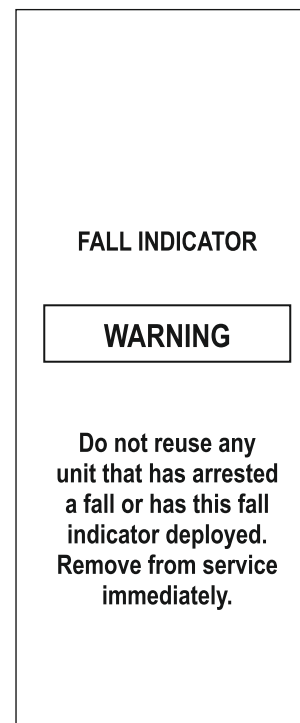
Step-1: Hold harness by back D-ring. Shake harness to allow all straps to fall in place.



Step-2 : If chest, waist and/or leg straps are buckled, release straps and unbuckle at this time.



Step-3 : Slip straps over shoulders so D-ring is located in middle of back between shoulder blades.



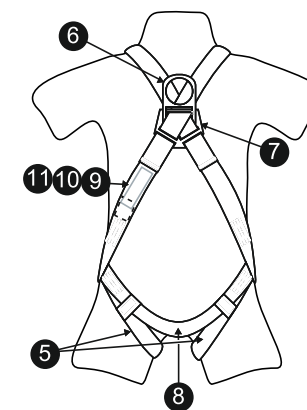
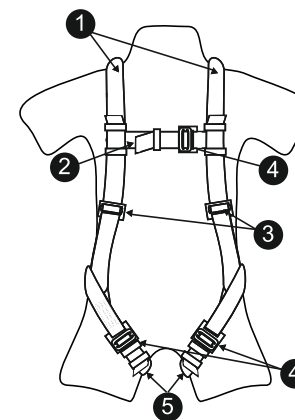
Fall Indicator Label (for all Full Body Harness)



Warning label for D-Ring Extender / Extension Lanyard

HARNESS COMPONENTS

1	Shoulder Strap
2	Chest Strap
3	Torso Adjustment
4	Parachute/Tongue Buckle/ Quick-Connect Fastener
5	Thigh Strap
6	Dorsal D-Ring
7	Back Plate
8	Sub-Pelvic Strap
9	Inspection/ID Label
10	Warning/Instruction Label
11	Standards Label



18. PRODUCT MARKING:



ANSI Z359.11-2021
 ANSI Z359 recognizes the use of this
 harness only within the capacity range of :
 130-310 lbs.

Ritz FALL PROTECTION CONSTRUCTION FORMING HARNES

Complies with:
ANSI Z359.11-2021,
A10.32(2012) and OSHA requirements

Capacity Range:
ANSI-130-310 lbs. OSHA-420 lbs.

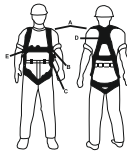
WARNING!
Follow the manufacturer's
instructions included with the
equipment at the time of shipment before
using. Improper use of this equipment
could result in serious injury or death.

Date of MFG: MM/YYYY
Model #: RTZC3DTBSM
Size: SM

Material: Polyester, Nylon, Steel
Capacity: 130-310 lbs
Max. Including all tools
Serial #: XXXX
Batch #: XXXX

DO NOT REMOVE THIS LABEL.

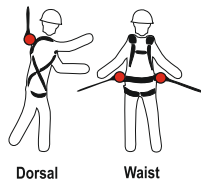
WARNING!
Read all instructions before use. Do not
remove product labels. Remove from
service if subject to fall. Avoid sharp
edges and abrasive surfaces. Inspect
before each use. Use only compatible
connections. Dorsal D-Ring for fall arrest
attachment. If present, side D-Rings for
positioning only Use front mounted
attachment for limited fall arrest having
max 2 ft. free fall distance.



- A.) Shoulder Strap
- B.) Chest Strap
- C.) Front Adjustment Strap
- D.) Back D-Ring
- E.) Lanyard Keeper

HARNES APPLICATION

The Full Body Harness
contains following
attachment points.



WARNING:
REMOVE FROM SERVICE
if subject to a fall arrest or if unit fails inspection.

INSPECTION GRID	D	O	N	I	T	A	R	I	O	N	D

User must inspect prior to EACH use. Competent
Person must complete formal inspection every 6
months. Competent Person to inspect and initial.
Date of First Use: _____, Product
lifetime is 10 years from the date of Manufacturing.

DO NOT REMOVE THIS LABEL.



Step-4 : Pull leg strap between legs and
connect to opposite end. Repeat with
second leg strap. Connect waist strap, if
present. Waist strap should be tight but
not binding.



Step-5 : Connect chest strap and
position in mid chest area 6" (152mm) to
8" (203mm) below the trachea but not
below the sternum. Tighten to keep
shoulder straps taut.



Step-6 : After all straps have been
buckled, tighten all webbing so that
harness fits snug but allows full range of
movement. Pass excess strap through
loop keepers.

Step-7 : To remove harness, reverse procedure.

NOTE: Ritz Fall Protection recommends hanging the harness by back D-ring to help it keep its shape when not in use and provide the worker with a starting point when next attempting to don the Harness.

8. **PROPER HARNES FIT:**

- It is extremely important that your harness fits and is properly adjusted.
- Failure to do so can result in Serious injury or death, and proper connection of both types of straps is essential to fall safety.

After donning a harness, make sure to check:

- Chest Strap:** Should be positioned in the middle of your chest [6" (152mm) to 8" (203mm) below the trachea but not below the sternum]. If the chest strap is positioned too high, the strap may move upwards during a fall arrest causing you to run the risk of strangulation. If the chest strap is too low or not connected at all, you could fall out of your harness during a fall.
- Leg Straps:** Proper adjustment of the leg straps is critical for safety. Leg straps should be snug, but not snug to the point that they obstruct normal blood circulation in the legs. Failure to wear leg straps will not secure your body within the harness during a fall and could lead to serious injury or death.
- Sub-pelvic Strap:** Provides support in the event of a fall, and also provides support when used for positioning. In a seated position, the sub pelvic strap should comfortably provide a "seat" for the buttocks. In the event of a fall, simply lift up your legs to transfer weight to the sub-pelvic strap.



9. **WITHDRAW FROM USE:** Remove the equipment from service immediately if it has been subjected to the forces of a fall arrest. Contact your distributor or Ritz Fall Protection about policies regarding replacement of Ritz Fall Protection components involved in a fall.
10. **ANCHORAGE STRENGTH:** Anchorage and anchorage strength requirements are dependent on the full body harness application (see below figure). In accordance with ANSI Z 359.11, anchorage selected for fall Arrest Systems must meet the anchorage strength requirements defined in Table 2.

Table 2 - Anchorage Strength Requirements

Fall Arrest	Non-Certified Anchorage	5,000 lbs (22.2 kN)
	Certified Anchorage ²	2 Times the Maximum Arresting Force for Certified Anchorage
Restraint	Non-Certified Anchorage	1,000 lbs (4.5 kN)
	Certified Anchorages ²	2 times the foreseeable for certified anchorages.
Work Positioning	Non-Certified Anchorages	3,000 lbs (13.3 kN)
	Certified Anchorage ²	2 times the foreseeable force for certified anchorage.
Rescue	Non-Certified Anchorage	3,000 lbs (13.3 kN)
	Certified Anchorage ²	5 times the foreseeable force for certified anchorage.
Climbing	The structure which a climbing system is attached must sustain the loads required by that particular system. See the instructions for the climbing for requirements.	
<p>1 Multiple Systems: When more than one of the defined system is attached to an anchorage, the strength defined for Non-Certified or certified anchorage shall be multiplied by the number of systems attached to the anchorage.</p> <p>2 Certified Anchorage: An anchorage for fall arrest, positioning, restraint, or rescue systems that a qualified person certifies to be capable of supporting the potential fall or that meet the criteria for a certified anchorage prescribed in this standard.</p>		

- (a) **Fall Arrest:** Anchorages selected for fall arrest systems shall have a strength capable of sustaining static loads applied in the directions permitted by the system of at least: 1. 5,000 lbs. (22.2 kN) for non-certified anchorages, or 2. Two times the maximum arresting force for certified anchorages. When more than one fall arrest system is attached to an anchorage, the strengths set forth in (1) and (2) above shall be multiplied by the number of systems attached to the anchorage.
- (b) **Per OSHA 1926.500 and 1910.66:** Anchorages used for attachment of personal fall arrest systems shall be independent of any anchorage being used to support or suspend platforms and capable of supporting at least 5,000 lbs. (22.2kN) per user attached, or be designed, installed and used as part of a complete Personal Fall Arrest System which maintains a safety factor of at least two, and is under the supervision of a qualified person.
- (c) **Work Positioning:** The structure to which the work positioning system is attached must sustain static loads applied in the directions permitted by the work positioning system of at least 3,000 lbs., or twice the potential impact load, whichever is greater. See OSHA 1926.502. When more than one work positioning system is attached to an anchorage, the strengths stated above must be multiplied by the number of work positioning systems attached to the anchorage.
- (d) **Restraint:** Anchorages selected for restraint and travel restraint systems shall have a strength capable of sustaining static loads applied in the directions permitted by the system of at least: 1. 1,000 lbs. (4.5 kN) for non-certified anchorages, or 2. Two times the foreseeable force for certified anchorages. When more than one restraint and travel restraint system is attached to an anchorage, the strengths set forth in (1) and (2) above shall be multiplied by the number of systems attached to the anchorage.
- (e) **Rescue:** Anchorages selected for Rescue shall have a strength capable of sustaining static loads applied in the directions permitted by the system of at least: 1. 3,000 lbs. (13.3 kN) for non-certified anchorages, or 2. Five times the foreseeable force for certified anchorages. When more than one restraint and travel restraint system is attached to an anchorage, the strengths set forth in (1) and (2) above shall be multiplied by the number of systems attached to the anchorage.

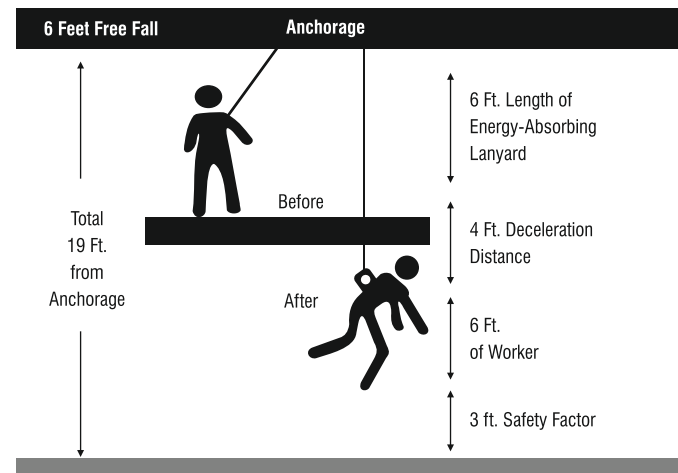
CALCULATING TOTAL FALL DISTANCE:

Total Fall Clearance below worker is calculated from Anchorage Connection.

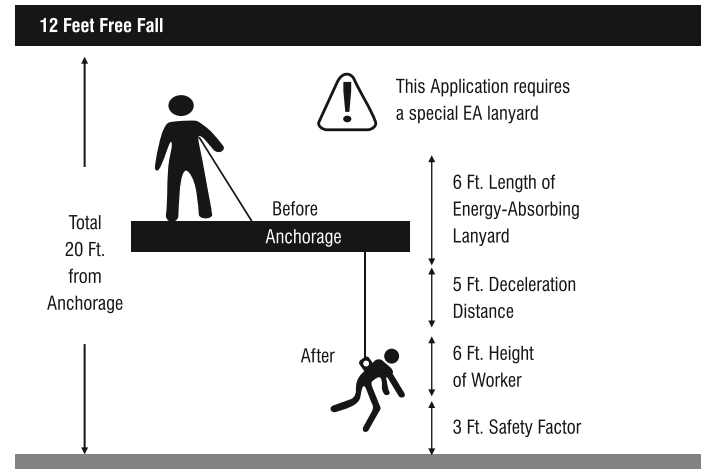
Free Fall Distance + Energy-Absorber Deceleration Distance + Worker height + Safety Factor

Care must be taken to ensure that the total fall distance is clear of obstructions, such as equipment, to avoid contact with a lower level.

Free Fall Distance + Energy-Absorber Deceleration Distance + Worker height + Safety Factor = 19 Ft. (5.8M)



Free Fall Distance + Energy-Absorber Deceleration Distance + Worker height + Safety Factor = 20 Ft. (6.1M)



15. USE OF FALL ARREST SYSTEM:

- The fall arrest system MUST ONLY be connected to the back attaching element on the harness provided for the purpose ("D" ring or webbing attachment extension) or to the chest anchorage points ("webbing link" or "D" link).
- The chest anchorage points must imperatively be used together.
- The D-rings on the belt and the ventral anchorage point must only be used for the attachment of a work positioning or retaining system and never with a fall arrest system.
- During use, check regularly the adjustment and/or attachment points.

16. USE OF WORK POSITIONING BELT:

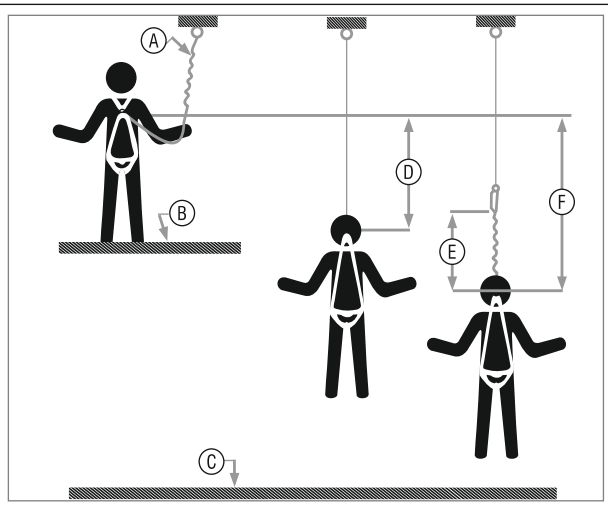
- This manual assumes the anchor has been previously installed, inspected and certified ready for use by a Competent Person, and that the worker has received training in all aspects of fall protection. Always perform a pre-use inspection to ensure the belt is in proper working order.
- Work Positioning belts are tools necessary to perform work at height. Work Positioning belts are not designed for impact and are not intended to be fall arrest body wear. In the event of a WPS failure, fall forces on a belt will be transferred to the worker, and may cause serious injury. Accessing and leaving the work position and transferring from one location to another are the most critical periods. Most falls occur during transition periods, when workers are not attached to the work location via the WPS, therefore an integrated Personal Fall Arrest System is required, and must be worn at all times. An Self Retractable Device is the recommended energy absorbing component since it employs a taut lanyard and limits deceleration distance to 2'.
- DO NOT attempt to climb to the work location without a Personal Fall Arrest System.
- DO NOT punch or cut additional holes in the belt.
- DO NOT use the belt slung over one shoulder or hung from shoulder to opposite waist,
- DO NOT place the belt around the neck.
- DO NOT leave the belt lying on the work surface or work table
- DO NOT use the side or lumbar D-rings in a fall arrest application.
- DO NOT use a belt to hoist tools or materials, other than the Type E as a tool belt as discussed in this manual.

17. FALL CLEARANCE:

- If there is a risk of fall or if the only anchorage is below the attachment points on the harness, it is essential to use a lanyard provided with an energy absorber.
- Before using a shock-absorbing lanyard, check that there is sufficient fall clearance below the user to prevent any collision with the structure or the ground.
- With a weight of 220 lbs and a fall factor of two (the least favorable case), the fall clearance D is the stopping distance H (2L + 5.74 ft) plus an additional distance of 3.28 ft.

- Elevation Of Anchorage
- Connecting Subsystem Length
- Deceleration Distance
- Free Fall Distance
- Worker Height
- Movement Of Harness Attachment Element.
- Harness Stretch

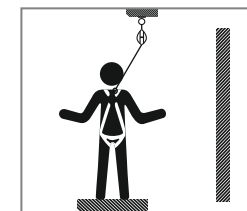
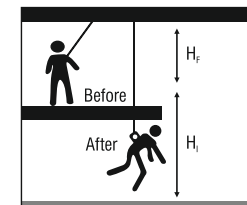
A	Connecting Subsystem (Energy Absorbing Lanyard Shown)
B	Working Level
C	Lower Level or Obstruction
D	Free Fall - 6ft. (1.8m) Max. (per ANSI Z 359.11)
E	Deceleration Distance
F	Total Fall Distance Free Fall (D) + Deceleration (E)



11. SYSTEM LIMITATIONS & REQUIREMENTS: Consider the following limitations/requirements prior to installing or using this equipment:

- Equipment must not be altered in any way. Repairs must be performed only by the Manufacturer, or persons or entities authorized in writing by the manufacturer.
- Never use fall protection equipment for purposes other than those for which it was designed. Fall protection equipment should never be used for towing or hoisting.
- Lanyard Parking attachment is for parking unused leg of the lanyard and should not be used for any other purpose. Refer product label for locating the lanyard parking attachment point.
- Ritz Fall Protection Full Body Harness should be used only with the combinations of components, sub-systems or both which may affect or interfere with the safe function of one another. Be certain that connecting devices are compatible and that other elements of the Personal Fall Arrest System are safe to use and compatible before use.
- Do not use the equipment near sharp edges and abrasive surfaces.
- Do not use the equipment around moving machinery or electrical hazards.
- Do not use the equipment near sharp edges and abrasive surfaces.
- Do not use the equipment around moving machinery or electrical hazards.
- Do not expose the PPE to UV light to avoid UV degradation.
- Ritz Fall Protection Full Body Harness should be used only with the combinations of components, sub-systems or both which may affect or interfere with the safe function of one another. Be certain that connecting devices are compatible and that other elements of the Personal Fall Arrest System are safe to use and compatible before use.
- Contact Ritz Fall Protection for further instructions.

- **Capacity:** Ritz Fall Protection Full Body Harnesses are designed for use by persons with a combined weight (clothing, tools, etc.) of no more than 310 lbs (140 kg). Make sure all of the components in your system are rated to a capacity appropriate to your application.
- **Free Fall:** Personal fall arrest systems used with this equipment must be rigged to limit the free fall to 6 feet (1.8 M) per ANSI Z 359.11 Restraint systems must be rigged so that no vertical free fall is possible. Work positioning systems must be rigged so that free fall is limited to 2 feet (.6 m) or less. Personnel riding systems must be rigged so that no vertical free fall is possible. Climbing systems must be rigged so that free fall is limited to 18 in. (.46 cm) or less. Rescue systems must be rigged so that no vertical free fall is possible. See subsystem manufacturer's instructions for more information. Below figure illustrates fall clearance requirements. There must be sufficient clearance below the user to allow the system to arrest a fall before the user strikes the ground or other obstruction. Clearance required is dependent on the following factors:



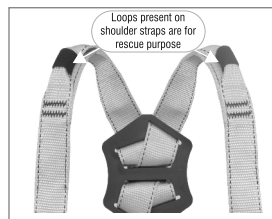
Harness Stretch: HS = HF - HI (Harness Stretch should be ≤ 18inches)

- **Swing Falls:** Swing falls occur when the anchorage point is not directly above the point where a fall occurs. The force of striking an object in a swing fall may cause serious injury or death. Minimize swing falls by working as close to the anchorage point as possible. Do not permit a swing fall if injury could occur. Swing falls will significantly increase the clearance required when a self retracting lifeline or other variable length connecting subsystem is used.
- **Extended Suspension:** A full body harness is not intended for use in extended suspension applications. If the user is going to be suspended for an extended length of time it is recommended that some form of seat support be used. Ritz Fall Protection recommends a seat board, suspension work seat, seat sling, or a boatswain chair. Contact Ritz Fall Protection for more information on these items.
- **Environmental Hazards:** Use of this equipment in areas with environmental hazards may require additional precautions to prevent injury to the user or damage to the equipment. Hazards may include, but are not limited to; heat, chemicals, corrosive environments, high voltage power lines, gases, moving machinery, and sharp edges.

- **Compatibility of Components:** Unless otherwise noted, Ritz Fall Protection equipment is designed for use with Ritz Fall Protection approved components and subsystems only. Substitutions or replacements made with non-approved components or subsystems may jeopardize compatibility of equipment and may affect safety and reliability of the complete system.
- **Compatibility of Connectors:** Connectors are considered to be compatible with connecting elements when they have been designed to work together in such a way that their sizes and shapes do not cause their gate mechanisms to inadvertently open regardless of how they become oriented. Connectors (hooks, carabiners, and D-rings) must be capable of supporting at least 5,000 lbs. (22 kN). Connectors must be compatible with the anchorage or other system components. Do not use equipment that is not compatible. Non-compatible connectors may unintentionally disengage (see Figure 6). Connectors must be compatible in size, shape, and strength. Self-locking snap hooks & carabiners are required by ANSI Z359.11 & OSHA.

➤ **Confined Space Entry or Egress:**

- Harnesses with shoulder loops/d-ring are to be used with proper training and capable sub-systems.
- These are designed to be used for confined space entry & egress.
- However worker/user's physical condition & confined space working related hazard identification & its management to eliminate any risk must be taken into account.

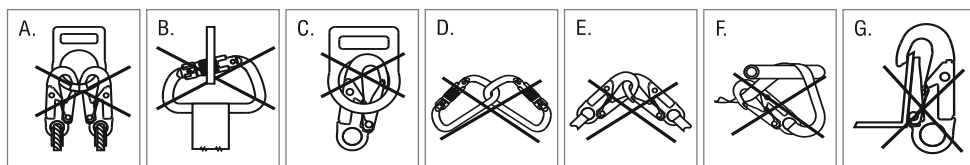


12. MAKING CONNECTIONS:

Use only self-locking snap hooks & carabiners with this equipment. Only use connectors that are suitable to each application. Ensure all connections are compatible in size, shape and strength. Do not use equipment that is not compatible. Ensure all connectors are fully closed and locked.

Ritz Fall Protection connectors (snap hooks and carabiners) are designed to be used only as specified in each product's user's instructions. See Figure below for illustration of the inappropriate connections stated below. Ritz Fall Protection snap hooks and carabiners should not be connected:

- (a) To a D-ring to which another connector is attached.
- (b) In a manner that would result in a load on the gate.
- (c) In a false engagement, where features that protrude from the snap hook or carabiner catch on the anchor and without visual confirmation seems to be fully engaged to the anchor point.
- (d) To each other.
- (e) Directly to webbing or rope lanyard or tie-back (unless the manufacturer's instructions for both the lanyard and connector specifically allow such a connection).
- (f) To any object which is shaped or dimensioned such that the snap hook or carabiner will not close and lock, or that roll-out could occur.
- (g) Do not use connector on an anchorage object in the manner depicted in picture-G.



Note: Other than 3,600 lbs (16 kN) gated hooks, large throat opening snap hooks should not be connected to standard size d-rings or similar objects which will result in a load on the gate if the hook or d-ring twists or rotates. Large throat snap hooks are designed for use on fixed structural elements such as rebar or cross members that are not shaped in a way that can capture the gate of the hook.

13. RESTRICTIONS REGARDING MAKING CONNECTIONS:

- Do not make connections where the hook locking mechanism can come into contact with a structural member or other equipment and potentially release the hook.
- Do not connect a snap hook into a loop or thimble of a wire rope or attach in any way to a slack wire rope.
- The snap hook must be free to align with the applied load as intended (regardless of the size or shape of the mating connector).
- A carabiner may be used to connect to a single or pair of soft loops on a body support such as a body belt or full body harness, provided the carabiner can fully close and lock. This type of connection is not allowed for snap hooks.
- A carabiner may be connected to a loop or ring connector that is already occupied by a choker style connector. This type of connection is not allowed for snap hooks.

If the connecting element to which a snap hook (shown) or Carabiner attaches is undersized or irregular in shape, a situation could occur where the connecting element applies a force to the gate of the snap hook or Carabiner. This force may cause the gate (of either a self-locking or a non-locking snap hook) to open, allowing the snap hook or Carabiner to disengage from the connecting point.

1. Force is applied to the snap hook.
2. The gate presses against the connecting Ring.
3. The gate opens allowing the snap hook to slip off.

1. Insert Lanyard Web Loop (A) through Web Loop or D-ring on harness (B).
2. Insert opposite end of lanyard through the Lanyard Web Loop.
3. Pull the Lanyard through the connecting Web Loop to secure.

14. CONNECTING SUB-SYSTEMS:

- Connecting subsystems (self-retracting lifeline, lanyard, rope grab and lifeline, cable sleeve) must be suitable for your application.
- See subsystem manufacturer's instructions for more information.
- Some harness models have web loop connection points.
- Do not use snap hooks to connect to web loops.
- Use a self-locking carabiner to connect to a web loop.
- Ensure the carabiner cannot cross-gate load (load against the gate rather than along the backbone of the carabiner).
- Some lanyards are designed to choke onto a web loop to provide a compatible connection. See Figure 5.
- Lanyards may be sewn directly to the web loop forming a permanent connection.
- Do not make multiple connections onto one web loop, unless choking two lanyards onto a properly sized web loop.