



SAFEWAZE™

Harness Instruction Manual

SAFEWAZE PRO+™

SAFEWAZE PRO™ SAFEWAZE V-LINE™



WARNING

This product is part of a personal fall arrest, work positioning, or rescue system. The manufacturer's instructions must be provided to users of this equipment. The user must follow the manufacturer's instructions for each component of the system. The user must read and understand these instructions before using this equipment. Manufacturer's instructions must be followed for proper use and maintenance of this equipment. Alterations to this product, misuse of this product, or failure to follow instructions may result in serious injury or death.

IMPORTANT

Questions regarding the use, care, or suitability of this equipment for your application? Contact SAFEWAZE™.

IMPORTANT

Record identification information before using this product. Identification information may be found on the equipment label (see page 11). This information should be recorded in the "Inspection Log" located at the back of this manual (p. 10).

ANSI Z359.11
This manual is intended to meet the manufacturer's instructions as required by ANSI Z359.11 and should be used as part of an employee training program as required by OSHA.

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User Information

Date of First Use: _____
 Serial#: _____
 Trainer: _____
 User: _____

Do not throw away these instructions!

Read and understand these instructions before using equipment!

INTRODUCTION

Thank you for purchasing a SAFEWAZE™ full body fall protection harness. This manual must be read and understood in its entirety, and used as part of an employee training program as required by OSHA or any applicable state agency.

This manual and any other instructional material must be available to the user of the equipment. The user must understand how to safely and effectively use their full body harness, and all fall protection equipment used in conjunction with the full body harness.

APPLICABLE SAFETY STANDARDS

When used according to instructions, harnesses included in this manual meet all applicable ANSI Z359.1 standards and OSHA regulations for fall protection. Applicable standards and regulations depend on the type of work being done, and may include state-specific regulations. Refer to local, state, and federal (OSHA) requirements for additional information concerning the governing of occupational safety regarding Personal Fall Arrest Systems (PFAS).

Worker Classifications

Understand the definitions of those who work in proximity of or may be exposed to fall hazards.

Qualified Person: "Qualified" means one who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training, and experience, has successfully demonstrated his ability to solve or resolve problems relating to the subject matter, the work, or the project.

Competent Person: "Competent person" means one who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.

Authorized Person: "Authorized person" means a person approved or assigned by the employer to perform a specific type of duty or duties or to be at a specific location or locations at the job site.

It is the responsibility of a Qualified or Competent person to supervise the job site and ensure safety regulations are complied with.

Product Specific Applications

Purpose: The SAFEWAZE™ series of full body harnesses are designed to be used as part of a Personal Fall Arrest System (PFAS).

- A competent person shall train users on this equipment in accordance with OSHA and ANSI.
- Never exceed a free fall distance of 6 ft. A free fall of more than 6 ft could cause excessive arrest forces that could result in serious injury or death.
- All SAFEWAZE™ harnesses have a maximum capacity of 310 lbs including any tools, clothing, accessories, etc...., unless otherwise rated by SAFEWAZE™.

Product Specific Applications (cont)

- Anchorage for attachment of SAFEWAZE™ full body harnesses shall support a minimum of 5,000 lbs or be designed with a safety factor of two by a Qualified Person.
- All SAFEWAZE™ full body harnesses must IMMEDIATELY be removed from service if subjected to fall arrest forces.
- SAFEWAZE™ full body harnesses shall be inspected by the end user prior to each usage and by a Competent Person other than the user at least annually. These annual inspections shall be documented.

Limitations

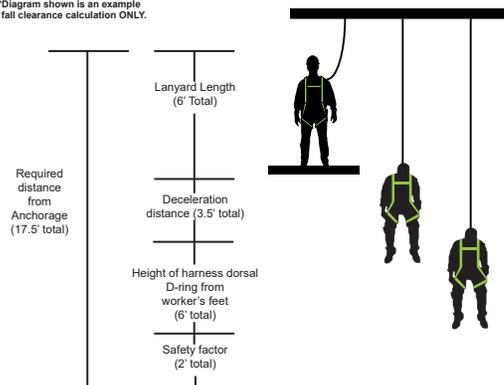
Fall Clearance: There must be sufficient clearance below the anchorage connector to arrest a fall before the user strikes the ground or an obstruction. When calculating fall clearance, account for a MINIMUM 2' safety factor, deceleration distance, user height, length of lanyard/SRL, and all other applicable factors. (See Figure 1)

FIGURE 1

For all applications: worker weight capacity range (including all clothing, tools, and equipment) is 130-310 lbs

Fall Clearance Diagram

***Diagram shown is an example fall clearance calculation ONLY.



Swing Falls: Prior to installation or use, make considerations for eliminating or minimizing all swing fall hazards. Swing falls occur when the anchor is not directly above the location where a fall occurs. Always work as close to in line with the anchor point as possible. Swing falls significantly increase the likelihood of serious injury or death in the event of a fall. (See Figure 2)

FIGURE 2



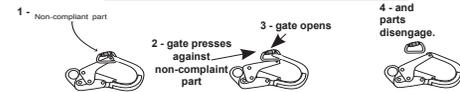
COMPATIBILITY OF CONNECTORS

Connectors are 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. (22.2 kN). Connectors must be compatible with the anchorage or other system components (see Figure 4). **Do not use equipment that is not compatible.** Non-compatible connectors may unintentionally disengage (see Figure 3). Connectors must be compatible in size, shape, and strength. Self-locking snap hooks and carabiners are required by ANSI Z359 and OSHA guidelines. Contact SAFEWAZE™ if you have any questions about compatibility.



NOTE: SOME SPECIALTY CONNECTORS HAVE ADDITIONAL REQUIREMENTS. CONTACT SAFEWAZE™ WITH QUESTIONS.

FIGURE 3 - UNINTENTIONAL DISENGAGEMENT



Using a connector that is undersized or irregular in shape (1) to connect a snap hook or carabiner could allow the connector to force open the gate of the snap hook or carabiner. When force is applied, the gate of the hook or carabiner presses against the non-compliant part (2) and forces open the gate (3). This allows the snap hook or carabiner to disengage (4) from the connection point.

MAKING CONNECTIONS

Snap hooks and carabiners used with this equipment must be double locking and/or twist lock. 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.

SAFEWAZE™ connectors (snap hooks and carabiners) are designed to be used only as specified in each product's user's instructions. See figure 4 for examples of inappropriate connections. Do not connect snap hooks and carabiners:

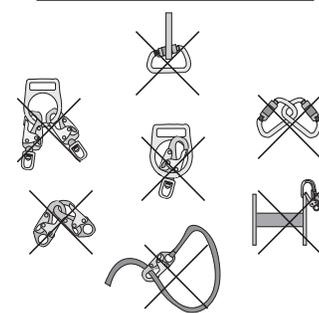
- To a D-ring to which another connector is attached.
- In a manner that would result in a load on the gate (with the exception of tie back hooks). NOTE: Large snap hooks must not be connected to objects which will result in a load on the gate if the hook twists or rotates. Snap hooks marked with ANSI Z359.1-2007 or ANSI Z359.12 and are equipped with a 3,600 lb (16 kN) gate. Check the marking on your snap hook to verify its compatibility.



NOTE: Large throat snap hooks must 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, unless the snap hook complies with ANSI Z359.1-2007 or ANSI Z359.12 and is equipped with a 3,600 lb (16 kN) gate. Check the marking on your snap hook to verify that it is appropriate for your application.

- 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.
- To each other.
- By wrapping the web lifeline around an anchor and securing to lifeline except as allowed for Tie Back models.
- To any object which is shaped or sized in a way that the snap hook or carabiner will not close and lock, or that roll-out could occur.
- In a manner that does not allow the connector to align properly while under load.

FIGURE 4 - INAPPROPRIATE CONNECTIONS



Donning of Harness



1 Hold harness by back D-ring. Shake harness so that straps fall into place.

2 If chest, leg or waist straps are buckled, release straps and unbuckle them

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



4 Pull leg straps between legs and connect to opposite ends. For a belted harness, connect waist strap after leg straps.

5 Fasten chest strap across chest. Chest strap should be comfortably snug.

6 After all straps are buckled, tighten all buckles so that harness fits snugly and allows full range of movement.

Use two buckles at base of shoulder straps to adjust shoulder straps. Position extra seat strap below seat of pants.

Chest strap should NOT be close to the user's neck, as strap may contact neck if back D-ring slides up during fall arrest.

Pass excess strap through strap keepers.

Proper Fit of Harness

Improper fitting of a SAFEWAZE™ full body harness can result in serious injury or death in the event of a fall. Proper time and care should be taken to ensure that the harness is properly fitted based upon sizing, weight of worker, and the type of work being performed.

- Ensure that Dorsal D-ring is located in the center of users back between the shoulder blades. The Dorsal D-ring should be in a position where the user can grab it with his/her hand by reaching over the shoulder.
- SAFEWAZE™ full body harnesses may come equipped with additional D-rings at various locations on the harness including chest, shoulder, and hips. The only D-ring that can be utilized for fall arrest is the Dorsal D-ring. Hip D-rings are to be used for positioning only, and all criteria for positioning shall be in accordance with OSHA 1926.502 (e).
- For SAFEWAZE™ full body harnesses equipped with integral positioning tool belts, the belt should be worn in a manner around the users waist that will not cause injury in the event of a fall.
- If the harness is a pullover X-style harness, the user must place the harness over top of the head between the Dorsal and Chest D-rings.



WARNING

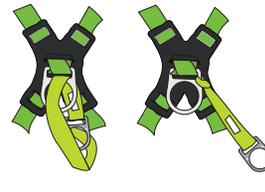
- Ensure proper location of the chest strap on vest style harnesses. The chest strap should lay directly on the chest. A chest strap positioned too high may have a choking effect on a user in the event of a fall. In a head first fall, an improperly positioned chest strap (i.e. positioned too low) can result in the user being released from the harness!
- Loose leg straps can result in excessive "harness effect" which can cause injury to a user in the event of a fall. Loose leg straps can also contribute to a choking effect of the chest strap. Leg straps should be adjusted as snug as possible without being uncomfortable.
- An improperly placed dorsal D-ring can result in excessive forces being applied to the user's shoulders in the event of a head first fall.
- Users should consult with their doctor to verify ability to safely absorb the forces of a fall arrest event. Fitness level, age, and other health conditions can greatly affect an individual's ability to withstand fall arrest forces. Women who are pregnant, individuals considered minors must not use any SAFEWAZE™ equipment.
- Never alter any part of a harness or add/remove components. SAFEWAZE™ shall not be held responsible for injury or death due to tampering.
- Harnesses that are exposed to fall arrest forces MUST be IMMEDIATELY removed from service and destroyed.
- Failure to follow these instructions and warnings could result in serious injury or death in the event of a fall.

D-ring Extender Usage

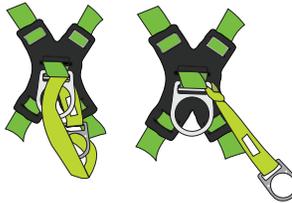
Typical FS813-Loop Installation



Alternate FS813-Loop Installation with Single Slotted D-ring



Alternate FS813-Loop Installation with Double Slotted D-ring



Typical FS813 Installation



Inspection

- SAFEWAZE™ full body harnesses shall be inspected prior to each use by the user and at least annually by a Competent Person. Annual inspections shall be documented. Severity of conditions during use may necessitate increased frequency of documented inspections.
- Harnesses that fail inspection MUST be removed from service and destroyed immediately.
- All components of the harness shall be inspected. Hardware inspection will include all buckles, D-rings, back/leg pads, lanyard keepers, and grommets.
- Buckles, D-rings, and adjusters should have smooth surfaces with no indication of corrosion or damage that could negatively impact harness webbing.

Harness webbing, buckles, belts, and other components must be inspected for:

- | | |
|----------------------------|---|
| 1. Excessive Wear | 8. Mold or Mildew |
| 2. Cuts | 9. Broken Stitches |
| 3. Abrasions | 10. Alterations and Additions |
| 4. Undue Stretching | 11. Rust, Oxidation, or Corrosion |
| 5. Chemical Exposure | 12. Legibility of Labeling |
| 6. Burns or Excessive Heat | 13. Deformation |
| 7. Welding Spatter | 14. Discoloration or Abraded Appearance |



IF ANY OF THESE CONDITIONS EXIST
HARNES MUST BE REMOVED FROM SERVICE



Maintenance & Storage

SAFEWAZE™ Harnesses can be cleaned with water and mild soap and hung to air dry. Do not use chemical cleaners, harsh detergents, or solvents. Do not dry harness with heat.

Hardware can be wiped off with a clean, dry cloth.

SAFEWAZE™ Harnesses should be stored in a cool, dry, and clean environment. Do not store in direct sunlight or where chemical vapors could come in contact with the harness.

Warranty

SAFEWAZE™ warrants its products are free from defects in materials and construction under normal use and service. Liability is not accepted for abuse, modification, improper use, destructive activity and contaminated exposure.

Inspection Log

Date	Inspection Items Noted	Corrective Action	Initials

Labels



MODEL #: FS160-2XL | FULL BODY HARNESS
 SERIAL #: 10100000 MFG DATE: 09/2017
 SIZE: 10-14 lbs
 322 Industrial Court
 Concord, NC 28025
 (704) 262-7893
 www.safewaze.com

SAFETY INFORMATION:
 FULLY INSPECTED
 MAX WEIGHT CAPACITY: 310 lbs
 ONLY HAVE COMPATIBLE CONNECTIONS
 INSPECT BEFORE EACH USE
 IF LOAD INDICATOR IS DEPLOYED AND/OR SUBJECT TO A FALL, REMOVE FROM SERVICE
 DO NOT REMOVE LABELS
Meets: OSHA 1926.602 and ANSI Z359.11

FS160-2XL

INSPECTION LOG

	J	F	M	A	M	J	J	A	S	O	N	D	

DO NOT REMOVE LABEL



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