



# **Product Name: Velocity Harness**

Part #: 01700; 01701; 01702; 01703; 01704; 01705; 01706

### **Instruction Manual**

Do not throw away these instructions! Read and understand these instructions before using equipment!

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### Introduction

Thank you for purchasing a Guardian Fall Protection Velocity 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 and any other included instructions must be made available to the user of the equipment. The user must understand how to safely and effectively use the Velocity Harness, and all fall safety equipment used in combination with the Velocity Harness.

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

### **Applicable Safety Standards**

When used according to instruction specifications, this product meets or exceeds all applicable OSHA 1926 Subpart M, OSHA 1910, ANSI Z359.1-2007, and ANSI A10.32-2012 standards for fall protection. Applicable standards and regulations depend on the type of work being done, and also might include state regulations if applicable. Consult regulatory agencies for more information on personal fall arrest systems and associated components.

### **Worker Classifications**



Understand the following definitions of those who work near or who may be exposed to fall hazards.

**Qualified Person:** A person with an accredited degree or certification, and with extensive experience or sufficient professional standing, who is considered proficient in planning and reviewing the conformity of fall protection and rescue systems.

**Competent Person:** A highly trained and experienced person who is ASSIGNED BY THE EMPLOYER to be responsible for all elements of a fall safety program, including, but not limited to, its regulation, management, and application. A person who is proficient in identifying existing and predictable fall hazards, and who has the authority to stop work in order to eliminate hazards.

**Authorized Person:** A person who is assigned by their employer to work around or be subject to potential or existing fall hazards.

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



### **Product Specific Applications**



Use of equipment in unintended applications may result in serious injury or death. Maximum 1 attachment per connection point.



**Personal Fall Arrest:** Velocity Harness may be used to support a MAXIMUM 1 PFAS for use in Fall Arrest applications. Structure must withstand loads applied in the directions permitted by the system of at least 5,000 lbs. Maximum free fall is 6', or up to 12' if used in combination with equipment explicitly certified for such use. Applicable D-ring: Dorsal.



**Restraint:** Velocity Harness may be used in Restraint applications. Restraint systems prevent workers from reaching the leading edge of a fall hazard. Always account for fully deployed length of lanyard/SRL. Structure must withstand loads applied in the directions permitted by the system of at least 1,000 lbs. No free fall is permitted. Restraint systems may only be used on surfaces with slopes up to 4/12 (vertical/horizontal). Applicable D-rings: Dorsal, Chest, Side, Shoulder.



**Work Positioning:** Velocity Harness may be used in Work Positioning applications. Work Positioning systems allow a worker to be supported while in suspension and work freely with both hands. Structure must withstand loads applied in the directions permitted by the system of at least 3,000 lbs. Maximum allowable free fall is 2'. Applicable D-rings: Side, Shoulder.



**Rescue/Confined Space:** Velocity Harness may be used in Rescue/Confined Space applications. Rescue systems function to safely recover a worker from a confined location or after exposed to a fall. There are various configurations of Rescue systems depending on the type of rescue. Structure must withstand loads applied in the directions permitted by the system of at least 3,000 lbs. No free fall is permitted. Applicable D-rings: Dorsal, Chest, Shoulder.

For all applications: worker weight capacity range (including all clothing, tools, and equipment) is 130-420 lbs.

### 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 3' safety factor, deceleration distance, user height, length of lanyard/SRL, and all other applicable factors.

# 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.

### **FALL CLEARANCE CALCULATION** Lanyard length (6' total) Deceleration Required distance (4' total) distance from anchorage (19' total) Height of harness dorsal D-ring from worker's feet (6' total) Safety factor (3' total)



**Compatibility:** When making connections with Velocity Harness, eliminate all possibility of roll-out. Roll-out occurs when interference between a hook and the attachment point causes the hook gate to unintentionally open and release. All connections must be selected and deemed compatible with Velocity Harness by a Competent Person. All connector gates must be self-closing and self-locking, and withstand minimum loads of 3,600 lbs. See the following for examples of compatible/incompatible connections:

Connector closed and locked to D-ring. **OK.** 





Connector to integral lanyard. **NO.** 

Two or more snap hooks or carabiners connected to each other. No.







Connector directly to webbing. **NO.** 

Two connectors to same D-ring. **NO.** 





Application that places load on gate. **NO.** 

Incompatible or irregular application, which may increase risk of roll-out, NO.







Connector directly to horizontal lifeline. **NO.** 

# **Components and Specifications**

Materials: polyester and galvanized steel.

Part #	Sizes	Description			
01700	S - L	Velocity HUV w/Chest & Leg Pass-Through Buckles			
01701	XL - 2XL	Velocity HUV w/Chest & Leg Pass-Through Buckles			
01702	S - L	Velocity w/3 D-Rings, & Chest & Leg Pass-Through Buckles			
01703	S - L	Velocity HUV w/Chest Pass-Through Buckle & Leg Tongue Buckles			
01704	XL - 2XL	Velocity HUV w/Chest Pass-Through Buckle & Leg Tongue Buckles			
01705	S - L	Velocity w/3 D-Rings, Chest Pass-Through Buckle, & Leg Tongue Buckles			
01706	XL - 2XL	Velocity w/3 D-Rings, Chest Pass-Through Buckle, & Leg Tongue Buckles			



### Installation and Use

All personal fall arrest system (PFAS) equipment must be selected and deemed compatible with Velocity Harness by a Competent Person. ALWAYS follow all instructions of all equipment used in combination with Velocity Harness. NEVER attach connector to any place on harness other than D-ring. Connector gate must be self-closing and self-locking, and must withstand minimum load of 3,600 lbs. Any excess strap webbing MUST be stored in harness Webbing Keepers.

To connect Pass-Through Buckle, angle male buckle so it is positioned to pass up and through female buckle. Fully insert male buckle so that it lies flat on too of female buckle.





To connect Tongue Buckle, pull webbing strap through framed tongue component, and insert framed tongue through grommet to secure.

Roller and Friction Adjustments allow the user to make adjustments to Velocity Harness straps. Feed webbing through buckle, and slide the buckle down on the strap to tighten, or slide the buckle up on the strap to loosen.





To adjust dorsal D-ring, slide placard up or down webbing. Dorsal D-ring must rest between the middle of the shoulder blades.

#### Dorsal D-ring, chest strap, shoulder straps, and leg straps MUST be fitted for each individual user.



1. Hold at dorsal D-ring, and fully inspect harness according to specifications of this instruction manual. Ensure all straps are not twisted and all buckles are unfastened.



2. Place harness shoulder straps over shoulders. Ensure dorsal D-ring faces out, and is adjusted to rest between the middle of the shoulder blades.



3. Connect leg straps around thighs. Ensure there is no twisting of webbing. Leg straps should never dangle or hang loose.



4. Adjust chest strap height to lower chest level, approximately 6" from top of shoulders. Connect chest strap. Ensure there is no twisting of webbing.



5. Adjust chest, leg, and shoulder straps so they fit snugly, but still allow for a full range of movement.

# **A**WARNING

Any twisting of webbing, or straps that are fitted too loose or too tight, can significantly increase the risk of serious injury or death in the event of a fall.

Some steps of adorning a harness may require assistance from another person. Upon completely adorning a harness, Guardian Fall Protection recommends that another person, with knowledge of the safe and correct use of the harness, inspect to ensure the harness is being worn correctly.



# Maintenance, Cleaning, and Storage

If a Velocity Harness fails inspection in any way, immediately remove it from service, and contact Guardian to inquire about its return or repair.

Cleaning after use is important for maintaining the safety and longevity of Velocity Harness. Remove all dirt, corrosives, and contaminants from Velocity Harness before and after each use. If a Velocity Harness cannot be cleaned with plain water, use mild soap and water, then rinse and wipe dry. NEVER clean Velocity Harness with corrosive substances.

When not in use, store equipment where it will not be affected by heat, light, excessive moisture, chemicals, or other degrading elements.

### Inspection

Prior to EACH use, inspect Velocity Harness for deficiencies, including, but not limited to, corrosion, deformation, pits, burrs, rough surfaces, sharp edges, cracking, rust, paint buildup, excessive heating, alteration, broken stitching, fraying, and missing or illegible labels. IMMEDIATELY remove Velocity Harness from service if defects or damage are found, or if exposed to forces of fall arrest.

Ensure that applicable work area is free of all damage, including, but not limited to, debris, rot, rust, decay, cracking, and hazardous materials. Ensure that selected work area will support the application-specific minimum loads set forth in this instruction manual. Work area MUST be stable.

At least every 6 months, a Competent Person other than the user must inspect Velocity Harness. **Competent Person inspections MUST be recorded in inspection log in instruction manual and on equipment inspection grid label.** The Competent Person must sign their initials in the box corresponding to the month and year the inspection took place.

During inspection, consider all applications and hazards Velocity Harness have been subjected to.

# Inspection Log

Date of First Us	2:

Product lifetime is 5 years from Date of First Use, or, if not recorded, from Date of Manufacture, as long as it passes pre-use and Competent Person inspections. User must inspect prior to EACH use. Competent Person other than user must complete formal inspection at least every 6 months. Competent Person to inspect and initial.

This inspection log must be specific to one Velocity Harness. Separate inspection logs must be used for each Velocity Harness. All inspection records must be made visible and available to all users at all times.

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If equipment fails inspection IMMEDIATELY REMOVE FROM SERVICE.



## **Safety Information**



Failure to understand and comply with safety regulations may result in serious injury or death. Regulations included herein are not all-inclusive, are for reference only, and are not intended to replace a Competent Person's judgment or knowledge of federal or state standards.

Do not alter equipment. Do not misuse equipment.

Workplace conditions, including, but not limited to, flame, corrosive chemicals, electrical shock, sharp objects, machinery, abrasive substances, weather conditions, and uneven surfaces, must be assessed by a Competent Person before fall protection equipment is selected.

The analysis of the workplace must anticipate where workers will be performing their duties, the routes they will take to reach their work, and the potential and existing fall hazards they may be exposed to. Fall protection equipment must be chosen by a Competent Person. Selections must account for all potential hazardous workplace conditions. All fall protection equipment should be purchased new and in an unused condition.

Fall protection systems must be selected and installed under the supervision of a Competent Person, and used in a compliant manner. Fall protection systems must be designed in a manner compliant with all federal, state, and safety regulations. Forces applied to anchors must be calculated by a Competent Person.

Unless explicitly stated otherwise, the maximum allowable free fall distance for lanyards must not exceed 6'. No free fall allowed for non-LE SRLs. Class A SRLs must arrest falls within 24"; Class B SRLs must arrest falls within 54".

Harnesses and connectors selected must be compliant with manufacturer's instructions, and must be of compatible size and configuration. Snap hooks, carabiners, and other connectors must be selected and applied in a compatible fashion. All risk of disengagement must be eliminated. All snap hooks and carabiners must be self-locking and self-closing, and must never be connected to each other.

A pre-planned rescue procedure in the case of a fall is required. The rescue plan must be project-specific. The rescue plan must allow for employees to rescue themselves, or provide an alternative means for their prompt rescue. Store rescue equipment in an easily accessible and clearly marked area.

Training of Authorized Persons to correctly erect, disassemble, inspect, maintain, store, and use equipment must be provided by a Competent Person. Training must include the ability to recognize fall hazards, minimize the likelihood of fall hazards, and the correct use of personal fall arrest systems.

NEVER use fall protection equipment of any kind to hang, lift, support, or hoist tools or equipment, unless explicitly certified for such use.

Equipment subjected to forces of fall arrest must immediately be removed from use.

Age, fitness, and health conditions can seriously affect the worker should a fall occur. Consult a doctor if there is any reason to doubt a user's ability to withstand and safely absorb fall arrest forces or perform set-up of equipment. Pregnant women and minors must not use this equipment.

Physical harm may still occur even if fall safety equipment functions correctly. Sustained post-fall suspension may result in serious injury or death. Use trauma relief straps to reduce the effects of suspension trauma.



### Labels



#### Size:

□ SM □ S-M □ MED □ LG
□ XL-XXL □ M-XL □ L-XL
□ XL □ XXL □ S-L □ M-L

#### Material:

Polyester & galvanized steel



Compliant with OSHA 1910, OSHA 1926 Subpart M, ANSI Z359.1-2007, and ANSI A10.32-2012.

Capacity including tools: 130-420 lbs.

Make only compatible connections: Dorsal D-ring for fall arrest attachment.

#### If present

Side D-rings for positioning only.

Front Loop for use with ladder systems.

Retrieval D-rings for rescue & retrieval.

Before use inspect equipment for rips, tears, fraying, or any possible structural deficiency that might compromise the equipment in a fall. See instruction manual for installation procedures. Avoid contact with sharp and abrasive surfaces.

#### WARNING

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

#### ADVENTENCIA

QUITE DE SERVICIO si súbdito a una caída accesorio o si la unida falla la inspección.

DO NOT REMOVE LABEL NO QUITE ESTE ETIQUETA

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

ADVENTENCIA Seguir las instrucciones de fabricación incluidas con el equipo, al tiempo del transporte, de la fábrica, antes de usar. Uso impropio de este equipo puede resultar en heridas serias o muerte.

#### WARNING

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

#### ADVENTENCIA

QUITE DE SERVICIO si súbdito a una caída accesorio o si la unida falla la inspección

> Guardian Fall Protection 6305 S. 231st St. Kent, WA 98032

Cumplir con OSHA 1910, OSHA 1926 Subpart M, ANSI Z359.1-2007, and ANSI A10.32-2012.

Capacidad (incluye herramientas):

Nomás haga compatible conexiones: El anillo D Dorsal para paro de caída accesorio

#### Si presente:

D-anillo de lado, nomás para posionisar. El rizo de frente para usar con escalera sistemas. D-anillo de recuperar para salvar y recuperar.

Inspeccionar el equipo antes de usar; que no este desgarrado, deshinchado, desherado o cual es quiere estructural incapacidad que pueda comprometer el equipo en una caida. Mere el manual de instrucción para instalación procedimiento. Evitar contacto con orillas filosas o abrasivo.

90044 (Rev. F)

INSPECTION GRID								
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IM	If equipment fails inspection IMMEDIATELY REMOVE FROM SERVICE							

DO NOT REMOVE LABEL

Size Tag





All labels located on harness strap beneath Label Cover.

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