



KwikSafety
Everything Safety®

INSTRUCTIONS FOR USE



COPPERHEAD NON-SHOCK ABSORBING SAFETY LANYARD MODEL NO. KS7707

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WARNING

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/ASSE Z359.3. The user must fully understand proper equipment use and limitations.



Do not skip this instruction manual. Read the instruction manual carefully before using the equipment. If failed in doing so it may cause serious injury or Death.

WARNING!

- This product is part of a personal fall arrest, restraint, work positioning, suspension, or rescue system. A Personal Fall Arrest System (PFAS) is typically composed of an anchorage and a Full Body Harness (FBH), with a connecting device, i.e., a Shock Absorbing Lanyard (SAL), or a Self-Retracting Device (SRD), attached to the dorsal D-Ring of the FBH. These instructions must be provided to the user of this equipment.
- Do NOT use the lanyards or positioning lanyards for material handling.
- Use caution when using components or subsystems, or both, which may affect or interfere with the safe function of each other.
- The need to make only compatible connection and limitations of compatibility.
- Alterations or misuse of this product, or failure to follow instructions, may result in serious injury or death.
- Proceed with caution when exposing the product to chemicals which may produce a harmful effect. Consult with the manufacturer in cases of doubt.
- Use a proper method of coupling the connector and checking that it is closed and locked.
- Do not alter or intentionally misuse this equipment. Consult KwikSafety when using this equipment in combination with components or subsystems other than those described in this manual. Some subsystem and component combinations may interfere with the operation of this equipment. Proceed with caution when using this equipment near moving machinery, electrical hazards, chemical hazards, and sharp edges.
- The user must read and understand the manufacturer's instructions and labels for each component or part of the complete system. Manufacturer's instructions and labels 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. Do not remove or alter labels.
- A Fall Protection Plan must be on file and available for review by all users. It is the responsibility of the user and the purchaser of this equipment to assure that users of this equipment are properly trained in its use, maintenance, and storage.
- Training must be repeated at regular intervals. Training must not subject the trainee to fall hazards. When this equipment is in use the employer must have a rescue plan and the means at hand to implement it and communicate that plan to users, authorized persons, and rescuers.
- Consult a doctor if there is reason to doubt your fitness to safely absorb the shock of a fall event. Age and fitness seriously affect a worker's ability to withstand falls. Pregnant women or minors must not use this equipment.



1. DESCRIPTION

KwikSafety Restraint Lanyards are composed of various lengths of polyester webbing, polyester rope, or wire rope, with self-closing/self-locking active connectors at the ends. The anchorage end of the lanyards are equipped with snap hooks, and the attachment end may be a snap hook or a rebar hook. KwikSafety lanyards are ANSI Z359.3 compliant and meet all OSHA regulations.

2. APPLICATION

Purpose: The Restraint Lanyard is intended for use on platforms, in aerial lifts and other areas to prevent personnel from reaching a fall hazard. Restraint systems are typically composed of a lanyard and a Full Body Harness (FBH), or a restraint belt. See Figure 2. **NOTE:** If a fall hazard exists, the use of a back-up Personal Fall Protection System (PFAS) is required.

Restraint Anchorage Strength: Anchorages selected for restraint, and travel restraint systems, shall have a strength able to sustain static loads applied in the directions permitted by the system of at least: 3,000 lbs. (13.3 kN) for non-certified anchorages, or two times the foreseeable force for certified anchorages.

3. SYSTEM REQUIREMENTS

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. Contact KwikSafety if you have any questions about compatibility. 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. Connectors must be compatible in size, shape, and strength. Self-closing, self-locking snap hooks and carabiners are required by ANSI and OSHA.

Compatibility of Components: Equipment is designed for use with approved components and subsystems only. Substitutions or replacements may only be made by a competent person.

Making Connections: Only use self-locking snap hooks and 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. Visually ensure all connectors are fully closed and locked. Connectors (snap hooks and carabiners) are designed to be used only as specified in each product's user's instructions. See Figure 3.



4. DO NOT:

- attach multiple snap hooks or carabiners to an anchorage.
- attach snap hooks or carabiners in a manner that may result in the gate being loaded.
- allow a false engagement, where features that protrude from the snap hook or carabiner catch on the anchor.
- attach snap hooks or carabiners to each other.
- attach snap hooks or carabiners to webbing or rope lanyard or tie-back (unless the manufacturer's instructions for both the lanyard and connector specifically allows such a connection).
- attach snap hooks or carabiners 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.

Definitions: The following are definitions of terms:

Authorized Person: A person assigned by the employer to perform duties at a location where the person will be exposed to a fall hazard (otherwise referred to as "user" for the purpose of these instructions).

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 forces that could be encountered during a fall or that meet the criteria for a certified anchorage prescribed in ANSI Z359.3

Competent Person: 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.

Qualified Person: A person with a recognized degree or professional certificate and with extensive knowledge, training, and experience in the fall protection and rescue field who is capable of designing, analyzing, evaluating and specifying fall protection and rescue systems to the extent required by ANSI Z359.

Rescuer: Person or persons other than the rescue subject acting to perform an assisted rescue by operation of a rescue system.

100% Tie-Off Applications: Y-leg configurations are designed to provide the user 100% tie-off capability. When using Y-leg lanyard configurations, take appropriate caution when moving from one anchorage to another. At least one leg must be anchored at all times. Two-point tie-off should only



be maintained for the limited time needed to make the transition to the new anchor point. Attach the unused lanyard legs to the harness on approved lanyard parking attachments that are specifically designed for such.

Use of this equipment in areas containing physical or environmental hazards may require that additional precautions be taken to reduce the possibility of damage to this equipment or injury to the user. Hazards may include, but are not limited to: high heat, strong or caustic chemicals, corrosive environments, the possibility of electric current flowing through this equipment when working near high voltage power lines, explosive or toxic gases, moving machinery, severe cold, or sharp edges. Contact KwikSafety if you have any questions about the application of this equipment in areas where physical or environmental hazards are present. This equipment is intended to be installed and used by persons who have been properly trained in its correct application and use.

5. INSTALLATION AND OPERATION

NOTE: Take caution on steep slopes or any surface where a fall hazard may exist.

Inspect This Equipment: Inspect this equipment thoroughly before each use according to the instructions in Section 7 of this manual.

Review the Task: Take note of fall hazards and potential fall hazards, obstructions, and anchorages.

Attach to Body Wear: Don the harness or restraint belt in accordance with the harness manufacturer's instructions. Attach the hook at the label end of the lanyard to an approved D-ring on the FBH or restraint belt. Visually ensure the snap hook closes and locks properly. Attach the other end of the lanyard to an approved restraint anchorage. See Figure 4.

Y-leg lanyard: With the attachment hook properly attached to the body wear, attach one leg of the Y-leg lanyard to the approved anchorage. Connect the other leg to the parking element on the FBH to safely store it. Consult harness instructions if necessary.

Y-leg 100% Tie-Off: To accomplish 100% tie-off, attach one leg of the Y-leg lanyard to an approved anchorage point (A). Move to another location. Attach the other leg to another anchorage (B). Disconnect from anchorage (A), and store the leg on the park element on the FBH. Move to the next anchorage point, and connect the idle leg to the next anchorage. (C)

Repeat as necessary. Be aware of the following:

DO NOT connect more than one person at a time to the Y-Leg system DO NOT allow the Lanyard legs to become tangled or twisted together. DO NOT allow any lanyard to pass under arms or between legs during use. DO NOT loop the lanyard around small diameter structures and tie-back to the lanyard.



6. SPECIFICATIONS

Capacity: The maximum capacity of the lanyards is 425 lbs. (193kg).

NOTE: To maintain ANSI Z359 compliance, limit total user weight to no more than 310 lbs. (140.6 kg).

7. MAINTENANCE, SERVICE AND STORAGE

Clean the polyester lanyard with a warm water and mild detergent solution. Wipe the wire rope lanyard with a clean dry cloth.

DO NOT use bleach or bleach solutions. Dry hardware with a clean, dry cloth, and hang to air dry. DO NOT use a power washer or dry with heat in a laundry dryer.

DO NOT attempt to disassemble the unit. A buildup of dirt, solvents, paint, etc. may prevent the lanyard from working properly, and in severe cases degrade the webbing. If you have questions concerning the condition of your lanyard, remove it from service and contact KwikSafety. Store lanyards in a cool, dry, clean environment out of direct sunlight. Avoid areas where heat, oil, chemicals or their vapors may exist. Thoroughly inspect the lanyard after extended storage.

8. INSPECTION

Mandatory Inspection: ANSI Z359 requires that fall protection equipment be inspected by a competent person other than the user at least once every six months. Harsh conditions may accelerate wear and corrosion and require more frequent inspections.

Inspection Procedure: Inspect all webbing (straps) and stitching for:

1. Pulled or broken threads
2. Cuts and fraying
3. Abrasion
4. Excessive wear
5. Burns, heat and chemical degradation

Broken stitches or separation of webbing inside the lanyard could indicate that the lanyard is damaged and must be removed from service.

Inspect all metallic hardware (snap hooks, carabiners, rebar hooks, adjuster buckles, etc.) for:

1. Deformation
2. Fractures, cracks, pitting
3. Corrosion
4. Burrs, sharp edges, cuts, deep nicks
5. Missing or loose parts
6. Improper function
7. Evidence of excessive heat, chemical, or electrical exposures



Ensure snap hook gates close and lock. All labels should be present and fully legible. Punch or mark the inspection label. Record the results of the inspection on the Inspection Record. If inspection reveals a defective condition or improper maintenance, remove the unit from service immediately.

IMPORTANT: Only KwikSafety or parties authorized in writing may make repairs to this equipment. And require that the authorized person be provided a rescue plan and appropriate training before using the equipment where suspension could occur.

9. LABELS

Product labels must be present and legible.

    customerhappiness@kwiksafety.com KWIKSAFETY, LLC	<p style="text-align: right;">DO NOT REMOVE THE TAG</p> <p>POSITIONING LANYARD</p> <p>Capacity: 130-310 lbs (includes worker weight, clothing, and tools)</p> <p>Model No.: KSXXXX</p> <p>Length: 4' to 6' Adjustable</p> <p>Material: Polyester Webbing</p> <p>Date of Mfg: XX/XXXX</p> <p>Serial No.: XXXXXX</p> <p>Batch No.: XXXXXX</p> <p>ANSI/ASSE Z359.3.2019 www.kwiksafety.com</p>  <p>AN AMERICAN COMPANY PACKAGE AND PRODUCT DESIGNED IN THE U.S.A. MADE IN CHINA</p>
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<p style="text-align: center;">WARNING!</p> <p>Read all instructions before use. Do not remove product labels. Inspect equipment before each use. Follow the manufacturer's instructions included with the equipment at the time of shipment. Failure to follow instructions may result in serious injury or death. Only compatible connections allowed.</p> <p style="text-align: center;">¡ADVERTENCIA!</p> <p>Lea todas las instrucciones antes de usar. No quite las etiquetas de los productos. Inspeccione el equipo antes de cada uso. Siga las instrucciones del fabricante incluidas con el equipo en el momento del envío. El incumplimiento de las instrucciones puede provocar lesiones graves o la muerte. Solo se permiten conexiones compatibles.</p>
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<p style="text-align: center;">WARNING!</p> <p>Remove from service if subject to fall arrest or if unit fails inspection.</p> <p style="text-align: center;">¡ADVERTENCIA!</p> <p>Retirar de servicio si está sujeto a detención de caídas o si la unidad no pasa la inspección.</p>	<p style="text-align: right;">DO NOT REMOVE THE TAG</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>YR</th> <th>J</th> <th>F</th> <th>M</th> <th>A</th> <th>M</th> <th>J</th> <th>J</th> <th>A</th> <th>S</th> <th>O</th> <th>N</th> <th>D</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> <p>1) User must inspect before each use 2) Competent person to inspect at least once every six (6) months 3) Date of First Use (Please Complete) Service life of production is 5 years from Date of First Use. Mark for punch on date grid a) Initial inspection date b) Date of passed inspection IF UNIT FAILS INSPECTION, REMOVE FROM SERVICE AND DESTROY!</p>	YR	J	F	M	A	M	J	J	A	S	O	N	D																																																																														
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FIGURE 1: Restraint Lanyard Features

A	Alloy Steel Snap Hook
B	1" Polyester Webbing
C	Adjuster Buckle
D	Labels and Protective Label Cover



FIGURE 2: Restraint

A	Restraint Anchor
B	Restraint Lanyard
C	Full Body Harness (FBH)
D	Walking/Working Surface
E	Fall Hazard Area



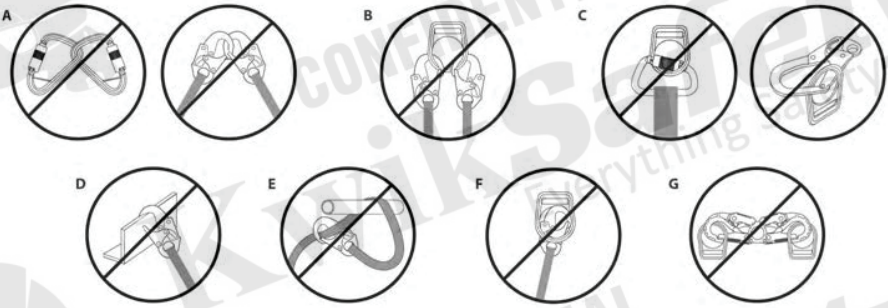


FIGURE 3: Incorrect Connections

A	Never connect two active components (snap hooks or carabiners) to each other.
B	Never connect two active components (snap hooks or carabiners) to a single D-ring at the same time.
C	Never connect in a way that would produce a condition of loading on the gate.
D	Never attach to a object in a manner whereby the gate (of the snap hook or carabiner) would be prevented from fully closing and locking. Always guard against false connections by visually inspecting for closure and lock.
E	Never attach explicitly to a constituent sub component (webbing, cable or rope) unless specifically provided for by the manufacturer's instructions for both sub components (snap hook or carabiner and webbing, cable or rope).
F	Never attach in a manner where an element of the connector (gate or release lever) may become caught on the anchor thereby producing additional risk of false engagement.
G	Never attach a spreader snap hook to two side/positioning D-rings in a manner whereby the D-rings will engage the gates; the gates on a spreader must always be facing away from the D-rings during work positioning.

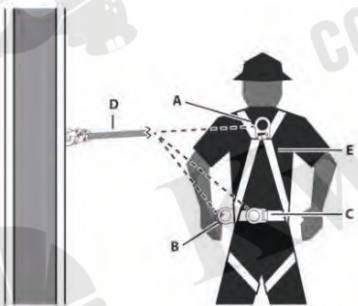


FIGURE 4: Suitable Attachment Methods for Restraint

A	Connection to Dorsal D-Ring on Harness
B	Connection to Side D-Ring on Harness
C	Connection to Lumbar D-Ring on Restraint Belt
D	Restraint Lanyard
E	Full Body Harness (FBH)



Acronyms for Fall Protection and Fall Arrest			
ACTD	Activation Distance	HLL	Horizontal Lifeline
AD	Arrest Distance	MAF	Maximum Arrest Force
CSS	Connecting Subsystem	mm	Millimeter
DD	Deceleration Distance	PFAS	Personal Fall Arrest System
DDV	Deceleration Device	PPE	Personal Protective Equipment
FACSS	Fall Arrest or Connecting Subsystem	SRD	Self-Retracting Device
FAS	Fall Arrest System	TFD	Total Fall Distance
FBH	Full Body Harness	VLL	Vertical Lifeline
FF	Free Fall	VLLSS	Vertical Lifeline Subsystem
FFD	Free Fall Distance	WPS	Work Positioning System
Other Acronyms for Fall Protection and Fall Arrest			
RGLS	Rope Grab Lanyard Set	ANSI	American National Standards Institute
SAL	Shock Absorbing Lanyard	OSHA	Occupational Safety and Health Administration
cm	Centimeters	ASTM	American Society for Testing and Materials
kN	kilo-Newton	lbs	pounds (weight)
RPA	Rebar Positioning Assembly	TPA	Tower Positioning Assembly



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