



MAXSAFE[®]

USER INSTRUCTION MANUAL

WORK POSITIONING LANYARDS

THESE INSTRUCTIONS APPLY TO THE FOLLOWING MODELS:

MLE-W-450mm, MLWPD-W-RH, MLWPD-KR-RA-2m,
MLWPD-KR-GA-2m, MLWPD-W-ADJ

USER MUST READ AND UNDERSTAND INSTRUCTIONS PRIOR TO USE

INTRODUCTION

MAXSAFE® are the producers and suppliers of Products, Training and Services for the height safety industry and working at heights. This instruction manual has been designed to assist all users in the prevention of accidents and to make good, informed choices.

The registered offices of Maximum Safety NZ Ltd are located at:
46 Vickerman Street, Port Nelson, Nelson 7010, New Zealand.
PO Box 697, Nelson 7040, New Zealand.
Telephone: 0800 262 972. Email: sales@maxsafe.co.nz

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WARNING

DO NOT SKIP THIS INSTRUCTION MANUAL. READ THE INSTRUCTION MANUAL CAREFULLY BEFORE USING THE EQUIPMENT. FAILURE TO DO SO MAY CAUSE SERIOUS INJURY OR DEATH.

This manual must be read and understood in its entirety and used as part of the User's fall protection training program as required by AS/NZS. These instructions are intended to meet the manufacturer's instructions as required by AS/NZS 1891. The user must fully understand the proper equipment use and limitations.

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

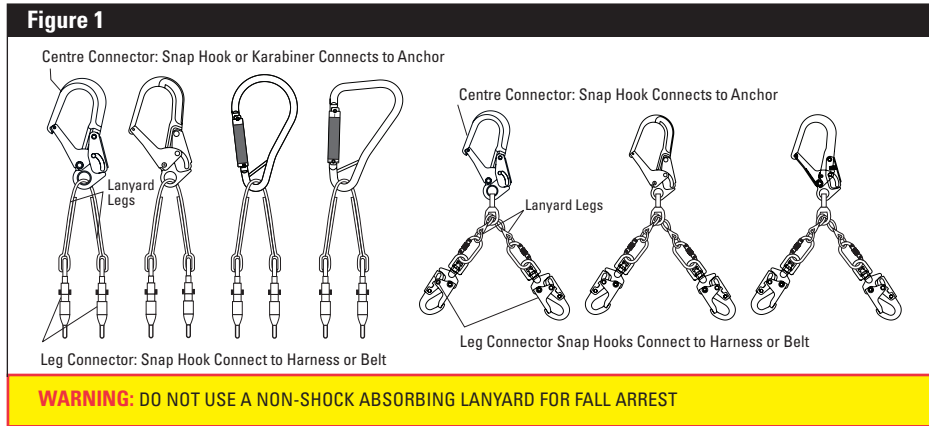
1. GENERAL REQUIREMENTS, WARNINGS AND LIMITATIONS:

- This 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 for which it has been designed and approved. Fall Arrest Systems are designed to comply with AS/NZS standards. Fall Restraint Systems must be designed by a Qualified Competent Person, and must be installed and used under the supervision of a Competent Person.
- All authorized persons/users must refer to the regulations governing occupational safety, as well as applicable AS/NZS standards. Please refer to product labeling for information on specific regulations, and AS/NZS standards met by the product.
- 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 Competent Person on a regular basis as required by legislative controls.
- To minimize the potential for accidental disengagement, a competent person must ensure system compatibility.
- 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.
- 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.
- 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.
- 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 environments, 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 MAXSAFE® for further instructions.
- Do not use this equipment near sharp edges and abrasive surfaces.
- Do not use this equipment around moving machinery or electrical hazards.

MAXSAFE® WORK POSITIONING LANYARDS should be used only with the combinations of components, sub-systems or both which will not affect or interfere with the safe function of one another. Be certain that connecting devices and other elements of the PFAS are safe to use and compatible before use. Contact MAXSAFE® for further instructions.

2. TERMINOLOGY:

- **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).
- **Rescuer:** Person/s other than the rescue subject acting to perform an assisted rescue by operation of a rescue system.
- **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 this standard.
- **Qualified Person:** A person with a recognised degree or professional certificate and with extensive knowledge, training, and experience in the fall protection and rescue field who is capable of designing, analysing, evaluating and specifying fall protection and rescue systems to the extent required by this standard.
- **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.



3. DESCRIPTIONS:

The following options are available for positioning lanyards:

Double Leg Positioning Lanyards:

Legs: Webbing/Chain/Rope

Connection Between Legs and Centre: Swivel or Rebar Hook

Single Leg Positioning Lanyards

Legs: Webbing/Chain/Rope

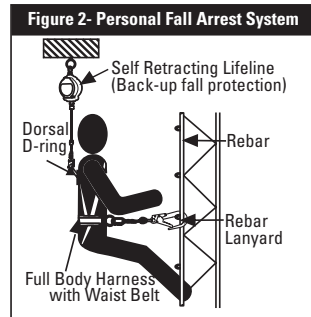
4. APPLICATIONS:

4.1 Purpose: The positioning lanyards are intended to be used as part of work positioning system that holds and supports the user at a work location. Applications include concrete rebar assembly and steel erection. AS/NZS 1891 defines this equipment as part of a positioning device system.

4.2 Limitations: Consider the following application limitations before using this equipment:

- A. Capacity:** This equipment is designed for use by persons with a combined weight (including tools, clothing, etc.) of no more than 140kg.
- B. Free Fall:** This equipment must be rigged to limit the potential free fall to 600mm, according to AS/NZS 1891.
- C. Fall Clearance:** Ensure that adequate clearance exists in your fall path to prevent striking an object. The clearance required is dependent on the length and type of lanyard and anchorage location.
- D. Personal Fall Arrest System:** See Figure 2. MAXSAFE® recommends the use of a personal fall arrest system with this equipment. The personal fall arrest system will protect the user if the work positioning system disengages from the anchorage point, or when detached from the work positioning system when moving from point to point.
- E. Environmental Hazards:** Use of this equipment in areas where environmental hazards are present may require additional precautions to reduce the possibility of injury to the user or damage to the equipment. Hazards may include, but are not limited to; high heat, severe cold, caustic chemicals, corrosive environments, high voltage power lines, explosive or toxic gases, moving machinery, or sharp edges.
- F. Training:** This equipment is intended to be used by persons trained in its correct application and use.

4.3 Applicable Standards: Refer to national standards, including the AS/NZS standards on fall protection.



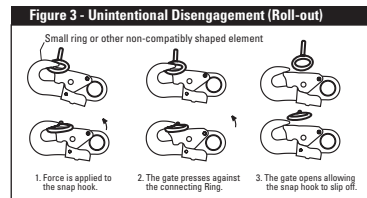
5. SYSTEM REQUIREMENTS

5.1 Compatibility of Components and Sub-systems: This equipment is designed for use with MAXSAFE® approved components and sub-systems. Substitutions or replacements made with non-approved components or sub-systems may be incompatible, and may jeopardize the safety and reliability of the complete system.

5.2 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 MAXSAFE® if you have any questions about compatibility.

Connectors (hooks, karabiners, and D-rings) must be capable of supporting at least 15 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 3. Connectors must be compatible in size, shape, and strength. Self-locking snap hooks and karabiners are required by AS/NZS 1891.

Unintentional Disengagement (Fig. 3). If the connecting element that a snap hook (shown) or Karabiner attaches to 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 Karabiner. This force may cause the gate (of either a self-locking or a non-locking snap hook) to open, allowing the snap hook or karabiner to disengage from the connecting point.

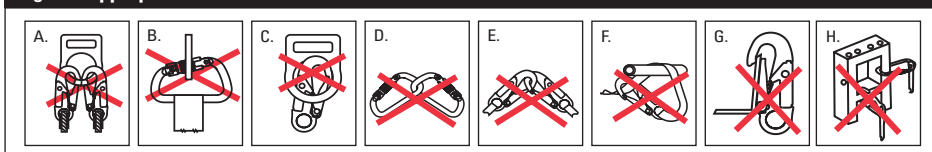


5.3 Making Connections: Only use self-locking snap hooks and karabiners with this equipment. Only use connectors that are suitable to each application. Ensure all connections are compatible in size, shape and strength. Do not use equipment that is not compatible. Ensure all connections are fully closed and locked. MAXSAFE® connectors (snap hooks and karabiners) are designed to be used only as specified in each product's user's instructions. See Figure 4 for inappropriate connections.

- To a D-ring to which another connector is attached.
- In a manner that would result in a load on the gate.

NOTE: Large gate 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 gate 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.
- In a false engagement, where features that protrude from the snap hook or Karabiner catch on the anchor and, without visual confirmation, seems to be fully engaged to the anchor point.
- To each other.
- Directly to webbing or rope lanyard or tie-back (unless the manufacturer's instructions for both the lanyard and connector specifically allows such a connection).
- 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.
- Do not use connector on an anchorage object in the manner depicted in picture-G.

Fig. 4: Inappropriate Connections



WARNING: DO NOT ALTER OR INTENTIONALLY MISUSE THIS EQUIPMENT. CONSULT MAXSAFE® WHEN USING THIS EQUIPMENT IN COMBINATION WITH COMPONENTS OR SUB-SYSTEMS OTHER THAN THOSE DESCRIBED IN THIS MANUAL. SOME SUB-SYSTEM AND COMPONENT COMBINATIONS MAY INTERFERE WITH THE OPERATION OF THIS EQUIPMENT. USE CAUTION WHEN USING THIS EQUIPMENT AROUND MOVING MACHINERY AND ELECTRICAL HAZARDS. DO NOT LOOP THE LANYARD AROUND SMALL STRUCTURAL MEMBERS.

WARNING: CONSULT YOUR DOCTOR IF THERE IS REASON TO DOUBT YOUR FITNESS TO SAFELY ABSORB THE SHOCK FROM A FALL ARREST. AGE AND FITNESS SERIOUSLY AFFECT A WORKER'S ABILITY TO WITHSTAND FALLS.

6.0 USE:

6.1 Before Each Use: of this equipment ensure it is inspected carefully by the competent user and is 100% safe to use.

6.2 Plan: your work positioning system before using this equipment. Consider all factors that will affect your safety during use of this equipment. Consider the following when planning your system:

- A. Hazard Evaluation:** Evaluate the job site for all possible hazards. Ensure the intended path of the user is unobstructed.
- B. Body Support:** MAXSAFE® recommends the use of a full body harness equipped with side D-rings with this equipment. A body belt may be used when it is a part of a full body harness.
- C. Back-up Fall Protection:** MAXSAFE® recommends the use of a personal fall arrest system with this equipment. See Figure 2 for more information. Use the personal fall arrest system according to manufacturer's instructions.
- D. Rescue:** The authorized person must have a rescue plan and the means to implement it when using this equipment where a suspension could occur following a fall and self-rescue is not possible.

6.3 Making Connections: When using a hook to connect to an anchorage, ensure roll-out cannot occur.

Roll-out occurs when interference between the hook and mating connector causes the hook gate to unintentionally open and release. Self-locking snap hooks and karabiners should be used to reduce the possibility of roll-out. Make sure all connectors close and lock and they do so automatically without manual assistance. Do not use hooks or connectors that will not completely close over the attachment object. Do not connect snap hooks or karabiners to each other.

6.4 Connecting the Rebar Lanyard to your Body Support and Anchorage:

A. Connecting to your body support: See Figure 5.

Double Leg Rebar Lanyards: Connect one leg of the rebar lanyard to each side D-ring of your body support (full body harness).

Single Leg Rebar Lanyards with D-ring: Lace your waist belt through the D-ring on the rebar lanyard. With the D-ring installed, buckle and secure your waist belt.

Figure 5 - Connecting to your Body Support



Single Leg Rebar Lanyards with Snap Hook: Connect the snap hook to the front D-ring on your cross-over style full body harness. If using this rebar lanyard with a waist belt, slide the waist belt D-ring to your front and connect the snap hook.

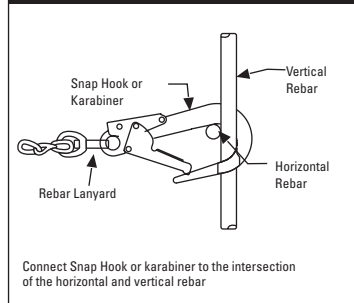
B. Connecting to the Anchorage:

Connect the Rebar Hook on the rebar lanyard to the intersection of the horizontal and vertical rebar as shown in Figure 6.

C. Connecting the Personal Fall Arrest System:

Connect the personal fall arrest system to the dorsal back D-ring on your full body harness. See Figure 2. See personal fall arrest system manufacturer's instructions for more information.

Figure 6 - Connecting to the Anchorage



7. TRAINING:

It is the responsibility of the user to assure they are familiar with these instructions, and are trained in the correct care and use of this equipment. User must also be aware of the operating characteristics, application limits, and the consequences of improper use of this equipment.

WARNING: TRAINING MUST BE CONDUCTED WITHOUT EXPOSING THE TRAINEE TO A FALL HAZARD. TRAINING SHOULD BE REPEATED ON A PERIODIC BASIS.

8. SPECIFICATIONS:

Materials:

Snap Hooks, Karabiners, D-rings, Swivel: Steel alloy, zinc plated.

Webbing: Polyester

Chain: Steel alloy, 5/0 twist link, zinc plated.

Rope: Polyamide

9. INSPECTION:

9.1 Frequency:

Before Each Use Inspect according to steps listed in section 9.2. Remove equipment from field service if it has been subjected to damage or has been subjected to a fall arrest force.

Annually: This equipment must be inspected according to steps listed in section 9.2 by a competent person, other than the user, at least annually. Record the results of each inspection in the Inspection and Maintenance Log in section 11.

WARNING: IF THIS EQUIPMENT HAS BEEN SUBJECTED TO FALL ARREST FORCES, REMOVE FROM SERVICE AND DESTROY.

IMPORTANT: EXTREME WORKING CONDITIONS (HARSH ENVIRONMENTS, PROLONGED USE, ETC.) MAY REQUIRE INCREASING THE FREQUENCY OF INSPECTIONS.

9.2 Inspection Steps:

Step 1. Inspect rebar lanyard hardware (snap hooks, karabiners, quick-links, etc.) for damage, distortion, sharp edges, worn parts, or corrosion. The snap hooks or karabiners must work properly. Hook gates must move freely and lock upon closing.

Step 2. Inspect the lanyard material as applicable:

Webbing and Stitching: Webbing must be free of frayed, cut, or broken fibres. Webbing must be free of knots, tears, abrasions, mold, or discoloration. Webbing must be free of chemical or heat damage, indicated by brown, discolored, or brittle areas. Webbing must be free of ultraviolet damage, indicated by discoloration and splinters along the webbing surface. Stitching must be free of pulled or cut stitches. All of the above factors are known to reduce webbing strength.

Chain: Inspect chain for damage, distortion, sharp edges, worn links, or corrosion.

Step 3. Labels must be present and fully legible.

Step 4. Inspect each system component and sub-system according to manufacturer's instructions.

Step 5. Record inspection date and results in the Inspection and Maintenance Log in section 11.

9.3 If inspection reveals an unsafe or defective condition, remove rebar lanyard from service and destroy, or contact an authorized service center for repair.

IMPORTANT: ONLY MAXSAFE® OR AN AUTHORIZED SERVICE CENTER MAY MAKE REPAIRS TO THIS EQUIPMENT.

10. OTHERS:

INSPECTION

Visually inspect the system before each use to ensure that it is in a serviceable condition and is operating correctly. If during inspection, doubts are raised about the safety of the system or a component, these should be replaced either by the manufacturer or a competent person.

CLEANING

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

COMPATIBILITY

To optimize protection, in some instance it may be necessary to use the product with suitable boots/gloves/helmet or earmuffs. In this case, before carrying out the risk-related activity, consult your supplier to ensure that all your protective products are compatible and suitable for your application.

STORAGE

When not in use, store the product away where it will not be affected by heat, light, excessive moisture, or other degrading elements and away from heavily acidic or chemically hazardous environments. Never place heavy items on top of it.

DAMAGED PRODUCT & WITHDRAWAL FROM USE

- If the product becomes damaged it will not provide the optimum protection and therefore should be immediately replaced. Withdraw it from use. Never use damaged products.
- If the system has been used to arrest a fall, it should be removed from service immediately and destroyed.

PERIODIC EXAMINATION

- It is important to conduct regular periodic examination of the product because the safety of the user depends upon the continued efficiency and durability of the product.
- The frequency of examination should be at least once in a year. However, it can be more than once if legislation requires, or frequency of use is high or environmental conditions have an adverse affect on it (eg. excessive rain, sea side environment, excessive heat etc).
- It is emphasized that the examination be conducted only by a competent person and strictly in accordance with the manufacturer's periodic examination procedures.
- It is also advised the competent person be correctly trained and authorized by the manufacturer.
- Ensure that all markings on the product are legible and can be clearly read.
- It is the responsibility of the User to keep the Inspection & Maintenance Log up-to-date (refer to Back Cover).

