MSA 10150478

MSA FP5K Energy-Absorbing Twin-Leg Web Lanyard User Manual

Model: 10150478

Introduction

This manual provides essential information for the proper use, maintenance, and inspection of the MSA FP5K Energy-Absorbing Twin-Leg Web Lanyard, Model 10150478. Adherence to these instructions is crucial for user safety and product longevity. This lanyard is designed for fall arrest applications, specifically for tie-back use, and incorporates a Sure-Stop shock absorber to limit fall arrest forces.

Product Overview

The image displays the MSA FP5K Energy-Absorbing Twin-Leg Web Lanyard. It features a red web strap, a central energy absorber pack, and two FP5K carabiners at the ends of the twin legs. The lanyard is designed for tie-back applications, allowing one of the FP5K carabiners to be connected directly back to the lanyard itself. The energy absorber is visible as a white, cylindrical pack with "12ft 1350lbs" printed on it, indicating its freefall rating and maximum arrest force. The webbing is described as "Monster-Edge" for increased abrasion resistance.

Key Features:

- **FP5K Carabiner:** Specifically designed for tie-back applications with 5,000 lb gate strength in any direction.
- **Twin-Leg Configuration:** Provides continuous fall protection when moving between anchor points.
- **Adjustable:** Allows for flexibility in various work environments.
- **Sure-Stop Shock Absorber:** Limits fall arrest forces to below 900 pounds.
- **Monster-Edge Webbing:** Features 12,000 pound minimum breaking strength and enhanced abrasion resistance.
- **Internal Wear Indicator:** Two yellow threads alert users when the lanyard should be removed from service due to severe abrasion.

Setup and Installation

Proper setup is critical for safety. Always follow these guidelines:

1. **Pre-Use Inspection:** Before each use, thoroughly inspect the lanyard for any signs of damage, wear, cuts, abrasions, or chemical exposure. Check the webbing, stitching, hardware (carabiners, gates, springs), and the energy absorber pack. Ensure the internal wear indicator (yellow threads) is not visible.
2. **Anchor Point Selection:** Select an anchor point capable of supporting 5,000 lbs (22.2 kN) per worker attached. The anchor point should be located directly above the work area whenever possible to minimize swing fall hazards.
3. **Connection:**
    - Connect one FP5K carabiner to a compatible fall arrest harness D-ring (typically the dorsal D-ring).
    - Connect the other FP5K carabiner to the selected anchor point.
    - For tie-back applications, the FP5K carabiner can be connected directly back to the lanyard webbing, ensuring the connection is made to a structural part of the lanyard designed for this purpose, and not to the energy absorber pack or stitching that is not reinforced for tie-back.
4. **Clearance Requirements:** Ensure adequate fall clearance below the work area. Account for lanyard length, energy absorber deployment (up to 48 inches), harness stretch, and a safety factor. Refer to local regulations and standards for specific clearance calculations. This 12FT Freefall version is designed for situations where tying off at feet is necessary, requiring greater clearance.

Operating Instructions

The MSA FP5K Twin-Leg Lanyard is designed for fall arrest and restraint. Always ensure proper training and understanding of fall protection principles before use.

- **Continuous Connection:** When moving between anchor points, always maintain a 100% tie-off by ensuring one leg of the twin lanyard is connected to an anchor point at all times.
- **Minimize Free Fall:** Position anchor points to minimize the potential free fall distance. The Sure-Stop shock absorber is designed to deploy during a fall to reduce impact forces.
- **Avoid Obstructions:** Ensure the lanyard path is clear of sharp edges, abrasive surfaces, or moving machinery that could damage the webbing or interfere with its function.
- **Swing Fall Hazard:** Avoid working in positions where a swing fall could occur. Position the anchor point directly overhead to prevent swinging into structures or objects in the event of a fall.
- **Post-Fall Procedure:** If a fall occurs, the lanyard must be immediately removed from service and destroyed. It is a single-use energy-absorbing device. Do not attempt to reuse a lanyard that has experienced a fall.

Maintenance and Storage

Proper maintenance and storage extend the life of your lanyard and ensure its reliability.

- **Cleaning:** Clean the lanyard with a mild soap and water solution. Rinse thoroughly with clean water and allow it to air dry completely in a shaded, well-ventilated area away from direct sunlight or heat. Do not use harsh chemicals, solvents, or bleach.
- **Inspection:** In addition to pre-use inspections, a competent person must perform a formal inspection at least every six months, or more frequently based on use and environmental conditions. Document all inspections.
- **Storage:** Store the lanyard in a cool, dry, clean area, away from direct sunlight, extreme temperatures, corrosive chemicals, and sharp objects. Do not store in areas where it could be exposed to moisture or pests.
- **Damage:** Any lanyard showing signs of damage, excessive wear, or having been subjected to fall arrest forces must be immediately removed from service and tagged "UNUSABLE" or "DO NOT USE" and destroyed to prevent accidental reuse.

Troubleshooting

This section addresses common issues and concerns regarding the lanyard's condition and use.

Problem	Possible Cause	Solution
Visible yellow threads on webbing	Internal wear indicator exposed due to severe abrasion.	Immediately remove lanyard from service and destroy. Do not use.
Carabiner gate does not close or lock properly	Debris, damage, or spring malfunction.	Clean carabiner. If issue persists or damage is visible, remove lanyard from service.
Webbing appears frayed, cut, or discolored	Abrasion, chemical exposure, or UV degradation.	Immediately remove lanyard from service and destroy.
Energy absorber pack is torn or deployed	Lanyard has experienced a fall or significant impact.	Immediately remove lanyard from service and destroy. It is a single-use device after a fall.

Specifications

Attribute	Detail
Model Number	10150478
Type	Energy-Absorbing Twin-Leg Web Lanyard
Length	6 feet (nominal)
Freefall Version	12FT Freefall (for tying off at feet)
Connectors	(1) 36C Snaphook, (2) FP5K Snaphooks
Material	Nylon (General Purpose) webbing
Shock Absorber	Sure-Stop (limits fall arrest forces below 900 lbs)
FP5K Carabiner Gate Strength	5,000 lb in any direction
Webbing Breaking Strength	12,000 lb minimum (Monster-Edge webbing)
Item Weight	4.4 pounds
Product Dimensions	15.75 x 11.57 x 17.17 inches
Manufacturer	MSA Safety

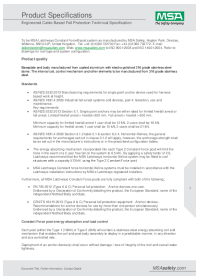
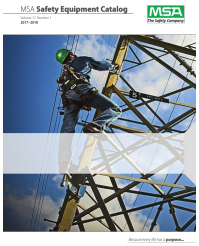
Warranty and Support

For specific warranty information and technical support, please contact MSA Safety directly. It is recommended to register your product upon purchase.

- **Manufacturer:** MSA Safety
- **Website:** www.msasafety.com
- **Contact Information:** Refer to the manufacturer's website for the most current contact details, including phone numbers for technical support and customer service.

Always ensure that any repairs or modifications are performed only by MSA or an authorized service center. Unauthorized alterations will void the warranty and could compromise user safety.

Related Documents - 10150478

	MSA Latchways Constant Force Post System Technical Specifications Detailed technical specifications for the MSA Latchways Constant Force® post system, covering product quality, materials, standards compliance (AS/NZS, EN, CEN/TS), energy absorption, load control, user capacity, and system compatibility.
	MSA Latchways® Sealed SRL User Instructions and Safety Guide Detailed user instructions for the MSA Latchways® Sealed Self-Retracting Lifeline (SRL). Covers general information, warnings, intended use, installation, maintenance, inspection, and technical specifications. Essential safety information for fall protection equipment.
	MSA Aptura LT30 Self-Retracting Lanyard Conversion Guide Guide detailing the conversion of MSA's legacy Aptura LT30 Self-Retracting Lanyards to current product lines, including part number cross-references for updated fall protection solutions.
	MSA Safety Equipment Catalog 2017-2018 | Respiratory Protection, Gas Detection & More Explore the comprehensive MSA Safety Equipment Catalog for 2017-2018, featuring respiratory protection, gas detection, head protection, fall protection, SCBA, and more. Find detailed product information and specifications from MSA, the safety company.
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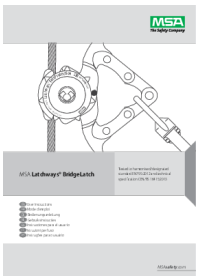	[MSA Latchways BridgeLatch: User Instructions and Safety Guide] Comprehensive user instructions, safety guidelines, and specifications for the MSA Latchways BridgeLatch fall protection device. Covers intended use, pre-use checks, maintenance, and safe operation for work at height.