



60 FT.
ADJUSTABLE
WRANGLER JR.[™]
2-PERSON TEMPORARY HORIZONTAL LIFELINE

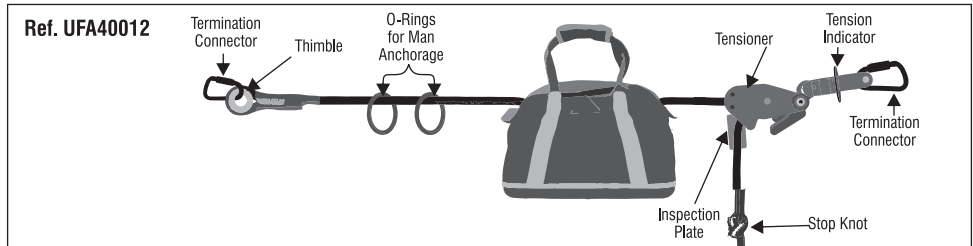
USER INSTRUCTION MANUAL
HORIZON 2 MAN TEMPORARY
HORIZONTAL ROPE ANCHORAGE LINE

THIS INSTRUCTION MANUAL APPLIES TO THE FOLLOWING MODEL:
UFA40012



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.

NOTE: The User is advised to keep the user instructions documents for the life of the product.



1. **INTRODUCTION:** This manual must be read and understood in its entirety, and used as part of an employee training program.

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 2-Person Rope HLL, and all fall safety equipment used in combination with the 2-Person Rope HLL.

2. **APPLICABLE SAFETY STANDARDS:** When used according to instruction specifications, this product meets or exceeds all applicable EN 795:2012 Type C, TS 16415 TYPE C & ANSI Z359.1-2007 standards for fall protection. Applicable standards and regulations depend on the type of work being done, and also might include state-specific regulations. Consult regulatory agencies for more information on personal fall arrest systems and associated components.

3. **WORKER CLASSIFICATIONS:**

- **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.

4. **IMPORTANT BEFORE INSTALLATION AND USE:**

Prior to use, plan your system:

- Ensure all PFAS equipment is selected and deemed compatible by a Competent Person.
- Installation, set-up, and use of HLL system must be done under the supervision of a Qualified Person.
- Determine desired location for HLL; ensure location is free of debris, rot, decay, cracking, and hazardous materials.
- Eliminate or minimize all risk of swing fall.

5. **RECOMMENDED MAXIMUM USERS:** 2

6. INSTALLATION STEPS:

STEP 1: The receiving structure onto which lifeline is to be installed must be strong enough to hold an impact load of more than 5000 lbs. Refer Fig.01

STEP 2: Installation of rope into the tensioner:

- Remove the Pan Head screw with the appropriate Allen key and loosen the threaded nut to slide open the housing cover plate. Refer Fig. 02,03,04
- Pull back the Hockey and Lock so as to create adequate gap to insert rope around the pulley. Please refer Fig. 05 for the direction of rope insertion.
- Slide back the cover plate and ensure that hole on cover plates matches with spacer on the fixed cover plate. Refer Fig. 06
- Once aligned, re-tighten the threaded nut and put back Pan head screw to with the fullest to hold the cover plates in position. Refer Fig. 07

STEP 3: With the help of a karabiner attached to the thimble eye of lifeline connect the rope to a suitable anchorage point. (In case of any unavailability of anchor point use KStrong Anchorage Slings to create one.)

STEP 4: Now connect the tensioner along with tension indicator to the second anchorage point by attaching a karabiner to the tension indicator connected directly with the hockey eye of tensioner. Refer Fig. 08

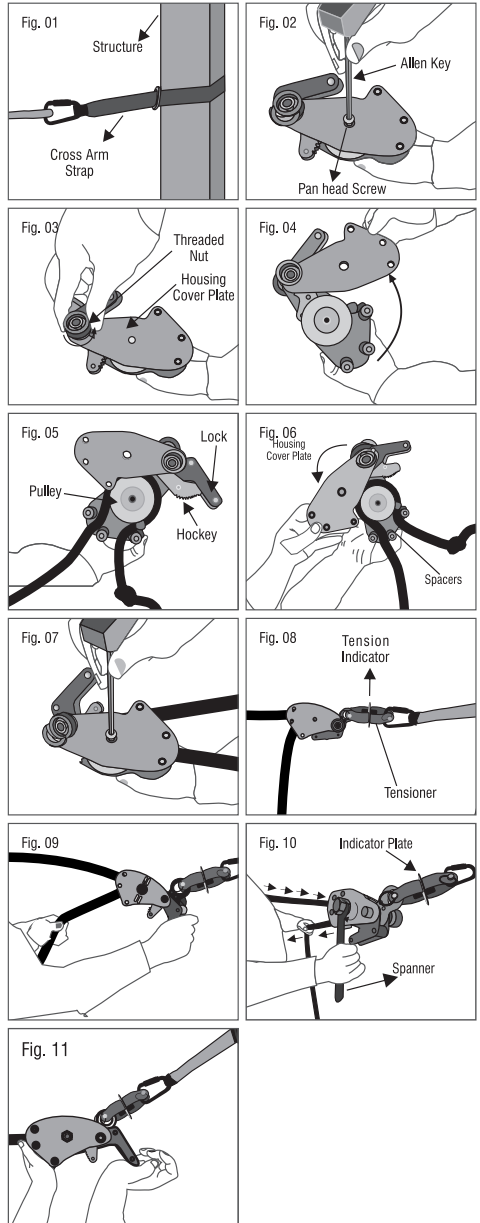
STEP 5: Pull the initial slack of rope by hand and ensure that rope is seated properly in the groove of pulley. Refer to Fig. 09

STEP 6: Use an open end spanner of 30mm provided along with tensioner to give appropriate tension to the lifeline. Plate of Tension indicator will start to rotate freely once the required tension has been achieved in lifeline. Now, O rings / Pass through carriages can be used as mobile anchors for the workers. Refer Fig. 10

STEP 7: To uninstall the lifeline, push the lock backwards in order to pull back the hockey. Hockey will release the pulley and allow rope to loosen. Refer Fig. 11

STEP 8: Now lifeline may be taken off from the anchorage.

STEP 9: After uninstallation, inspect the entire lifeline for any evidence of damage, wear, corrosion on tensioner body and separation of rope fibers.



NOTE:

UFA40012 is provided with steel O-Rings to be used as mobile anchor for the workers to get connected to the lifeline permanently

WARNING:

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.

7. DO NOT ALTER AND MISUSE THE EQUIPMENT:**NOTE:**

- 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.
- Harnesses and connectors selected must be compliant with manufacturer's instructions, and must be of compatible size and configuration.
- 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 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 the 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.
- Maintenance of equipment must be done according to manufacturer's instructions. Equipment instructions must be retained for reference.
- Prior to EACH use, all equipment in a fall protection system must be inspected for any potential or existing discrepancy that may result in its failure or reduced functionality. IMMEDIATELY remove equipment from service if any discrepancy is found.
- Equipment must be inspected by a Competent Person at least every six months. These inspections must be documented in equipment instruction manual and on equipment inspection grid label.
- Equipment must be inspected for defects, including, but not limited to, the absence of required labels or markings, improper form/ fit/ function, evidence of cracks, sharp edges, deformation, corrosion, excessive heating, alteration, excessive wear, fraying, knotting, abrasion, and absence of parts.
- Equipment that fails inspection in any way must immediately be removed from use, or repaired by an entity approved by the manufacturer.
- No on-site repair of equipment unless explicitly is permitted by the manufacturer.
- Equipment subjected to forces of fall arrest must immediately be removed from use. Snap hooks, karabiners, and other connectors must be selected and applied in a compatible fashion. All risk of disengagement must be eliminated. All snap hooks and karabiners must be self-locking and self-closing, and must never be connected to each other.
- 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. Allowable individual worker weight limit (including all equipment), unless explicitly stated otherwise, is 130 - 310 lbs.

8. MAINTENANCE, CLEANING AND STORAGE:

- Repairs to this product can only be made by a by a competent person or an entity authorized by manufacturer. If a 2-Person Rope HLL fails inspection in any way, immediately remove it from service, and contact manufacturer to inquire about its return or repair.
- 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.
- When not in use, store equipment where it will not be affected by heat, light, excessive moisture, chemicals, or other degrading elements.

9. INSPECTION:

- KEEP INSTRUCTIONS AVAILABLE FOR REFERENCE. Record the date of first use.
- Prior to EACH use, inspect the lifeline for discrepancy, including, but not limited to, corrosion, deformation, pits, burrs, rough surfaces, sharp edges, cracking, rust, paint buildup, excessive heating, alteration, broken stitching, fraying, bird-caging, and missing or illegible labels. IMMEDIATELY remove the lifeline from service if defects or damages are found, or if exposed to forces of fall arrest.
- Ensure that applicable work area is free from 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 the lifeline and record data in the inspection grid of the label. The grid must also be signed, with the mention of month and year of inspection.
- During inspection, consider all applications and hazards the lifeline has been subjected to.

10. IMPORTANT INFORMATION: The Horizontal Anchorage Line and the anchor points need to be above the user's head, Horizontal anchorage line is intended for use on span upto 25 ms. for a fall of 1 user, 2 users, with anchor line fitted on spans of 5ms. to 25 ms., the typical peak line deflection from the original position are stated in table below.

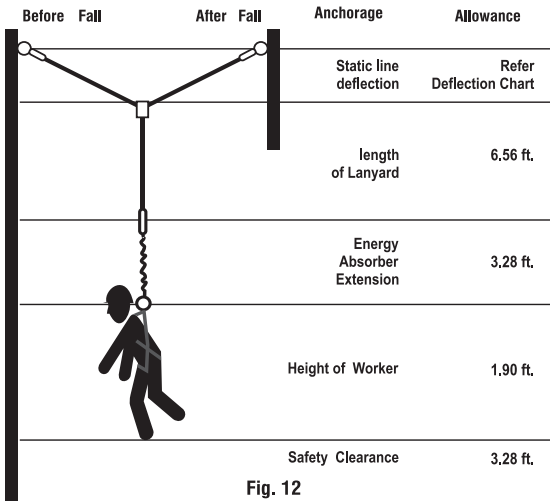


Fig. 12

Deflection Chart		
Span Length	Users	
	1	2
15 ft.	3.87	4.30
20 ft.	4.33	4.82
25 ft.	5.28	5.91
30 ft.	5.74	6.43
35 ft.	6.69	7.51
40 ft.	7.15	8.04
45 ft.	8.07	9.09
50 ft.	8.56	9.65
55 ft.	9.48	10.70
60 ft.	9.94	11.22
65 ft.	10.89	12.30
70 ft.	11.35	12.83
75 ft.	12.30	13.95
80 ft.	12.76	14.44
85 ft.	13.68	15.49
90 ft.	14.14	16.01
95 ft.	15.06	17.06
100 ft.	15.52	17.59

Table

11. PRODUCT SPECIFIC APPLICATIONS:

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

- **Personal Fall Arrest:** This line must be used to support a MAXIMUM 2 Personal Fall Arrest Systems (PFAS) for use in Fall Arrest applications. Structure must withstand loads applied in the directions permitted by the system of at least 5000 lbs.
- **Restraint:** 2-Person Rope HLL 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 5000 lbs. **No free fall is permitted.**
- **For All Applications:** Worker weight capacity range (including all clothing, tools, and equipment) is 130 - 310lbs
- **Never for Simultaneous use in Fall Arrest and Restraint.**

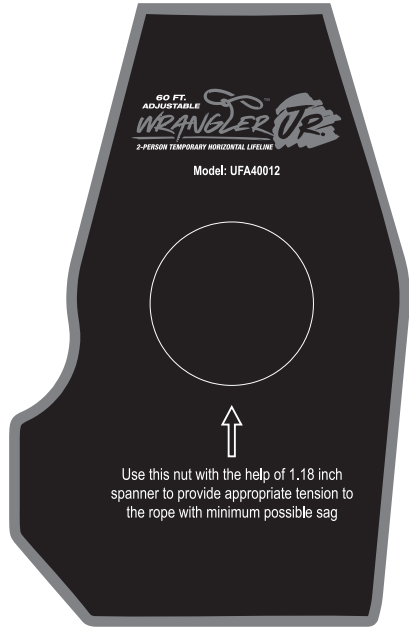
12. LIMITATIONS:

- **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 1mtr. safety factor deceleration distance, user height, length of Lanyard/SRL, and all other applicable factors as shown in Fig.12 above.
- **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.
- **Compatibility:** When making connections with this lifeline, 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 this lifeline by a Competent Person.

13. INSPECTION LOG: User must inspect the HLL prior to EACH use. Competent Person other than user must complete formal inspection at least every 6 months. Competent Person to inspect and fill the initials in the below inspection logs.

Date of First Use: _____.

- 14. PERSON INSPECTIONS:** This inspection log must be specific to one 2-Person Rope HLL. Separate inspection logs must be used for each 2-Person Rope HLL. All inspection records must be made visible and available to all users at all times.
- 13. LIFESPAN:** The estimated product Lifespan is 10 years from the date of first use. The following factors can reduce the Lifespan of the product: intense use, contact with chemical substances, especially aggressive environments, extreme temperature exposure, UV exposure, abrasions, cuts, violent impacts, bad use or maintenance.
- 14. DISCLAIMER:** Prior to use, the end user, must read and understand the manufacturer's instructions supplied with this product at the time of shipment and seek training from their employer's trained personnel on the proper usage of the product. Manufacturer is not liable or responsible for any loss, damage or injury caused or incurred by any person on grounds of improper usage or installation of this product.



Specification: Maximum Capacity is two persons, each with a maximum weight of 310 pounds, when used as a temporary horizontal lifeline for a personal fall arrest or restraint system.

Materials of Construction: Tensioner - Galvanized Steel, This device meets OSHA and ANSI Z359.1-2007 and EN 795:2012 TYPE C & TS16415:2013 TYPE C requirements for use as an anchorage connector.

Please refer to the Deflection Chart provided in Instruction Manual for Clearance Calculation.



WARNING

Read carefully the manufacturer's instructions provided with this product at the time of shipment for proper use, maintenance and inspection. Use only with ANSI/OSHA compliant personal fall arrest or restraint components. If using with suitable beam connectors or stanchions, ensure they are adjusted tightly on beam flange. Make only compatible connection.

Any alteration, misuse or failure to follow instructions may result in serious injury or death.

ANY ALTERATION, ABUSE OR MISUSE OF THIS PRODUCT VOIDS THE WARRANTY.

Wrangler 2-Person Temporary Horizontal Lifeline

Model: UFA40012

UID : XXXXXXXXXX

Maximum Span Length: 60 ft.

Minimum Breaking Strength: 5000 lbs.

Complies with ANSI Z359.1-2007, EN 795:2012 Type C and TS 16415 TYPE C

DOM:

Barcode

Read the user instructions carefully before each use.

Weighting not more than 310 lbs (each)

Inspection Grid Before every use, user must inspect the product. Every 6 months a competent person must complete full inspection of the product and record date.

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DO NOT REMOVE THIS LABEL Made in India kstrong.com

EQUIPMENT RECORD

Product		
Model & type/Identification	Trade Name	Identification number
Manufacturer	Address	Tel, fax, email into use
Year of manufacture	Purchase Date	Date first put into use
Other relevant information (e.g. document number)		

PERIODIC EXAMINATION AND REPAIR HISTORY

Date	Reason for entry (periodic examination or repair)	Defects noted, repairs carried out and other relevant information	Name and signature of competent person	Periodic examination next due date



KStrong Inc.
 150 N. Radnor Chester Road Suite F200
 Radnor, Pennsylvania 19087 United States
 Contact number : 1-833-KSTRONG

www.kstrong.com

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