K-STRONG®
UNRIVALED SAFETY.

100 FT. ADJUSTABLE
WRANGLER™
4-PERSON TEMPORARY HORIZONTAL LIFELINE

USER INSTRUCTION MANUAL

TEMPORARY ANCHORAGE LINE SYSTEM

THESE INSTRUCTIONS APPLY TO THE FOLLOWING MODEL:

UFA40010

ANSI RATED
OSHA COMPLIANT

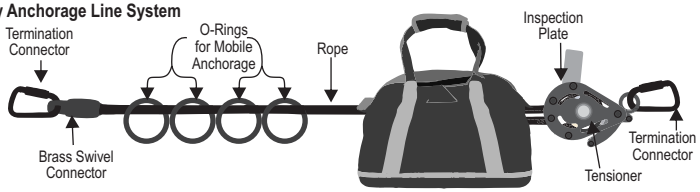
⚠WARNING:

This product is part of a fall arrest 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. The user must read and follow the manufacturer's instructions for each component or part of the complete system. 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.

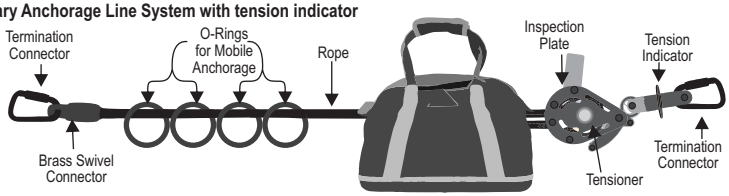
IMPORTANT:

- If you have questions on the use, care, or suitability of this equipment for your application, contact KStrong.
- Before using this equipment, record the product identification information in the equipment record table.

Temporary Anchorage Line System



Temporary Anchorage Line System with tension indicator



INTRODUCTION

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 4-Person Temporary Horizontal Lifeline, and all fall safety equipment used in combination with the 4-Person Temporary Horizontal Lifeline.

APPLICABLE SAFETY STANDARDS

When used in accordance with the instructions, this product meets or exceeds **ANSI Z359.1-2007, EN 795:2012 Type C and TS 16415 TYPE C** 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.

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.

IMPORTANT BEFORE INSTALLATION AND USE : Prior to use, plan your system:

- Ensure all PFAS equipment is selected and deemed compatible by a Competent Person.
- Eliminate or minimize all risk of swing fall.
- Determine desired location for 4-Person Temporary Horizontal Lifeline; ensure location is free of debris, rot, decay, cracking, and hazardous materials.
- Installation, set-up, and use of 4-Person Temporary Horizontal Lifeline system must be done under the supervision of a Qualified Person or competent person.

Recommended Maximum Users: 4

Installation of Temporary Horizontal Lifeline-

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. Fig. 01

STEP 2: **Installation of rope into the tensioner:**

- Loosen the knob to slide open the housing cover plate. Fig. 02
- Pull back the Hockey and Lock Body so as to create adequate gap to insert rope around the pulley. Please refer attached image for the direction of rope insertion. Fig. 03
- Slide back the cover plate and ensure that hole on cover plates match with spacer on the fixed cover plate. Fig. 04
- Once aligned, re-tighten the knob to the fullest to hold the cover plates in position. Fig. 05

STEP 3 : With the help of a Carabiner attached to the swivel connector of lifeline, connect the rope to a suitable anchorage point. (In case of any unavailability of anchor point use Kstrong Cross Arm Strap to create one.) Fig. 01

STEP 4: Now connect the tensioner to the second anchorage point along with tension indicator by attaching a Carabiner to the hockey eye of tension indicator. Fig. 06

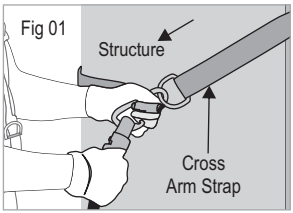
STEP 5 : Pull the initial slack of rope by hand and ensure that rope is seated properly in the groove of pulley. Fig. 07

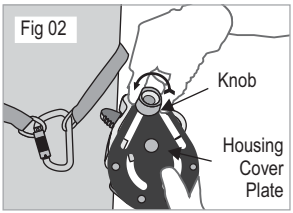
STEP 6 : Use an open end spanner of 0.944 inches provided along with tensioner to give appropriate tension to the lifeline. Now, O rings/ pass through carriages can be used as mobile anchors for the workers. Fig. 08

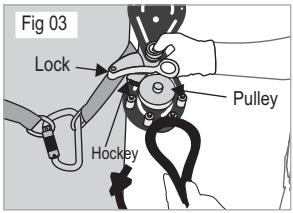
STEP 7 : To uninstall the lifeline, push the lock backwards in order to pull back the hockey. Hockey will release the pulley and allow rope to loosen. Fig. 9

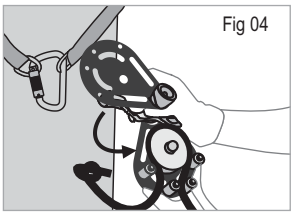
STEP 8 : Now lifeline may be taken off from the anchorage.

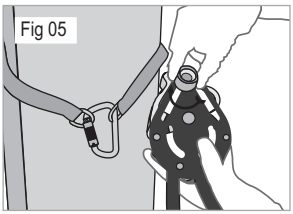
STEP 9 : After uninstallation, inspect the entire lifeline for any evidence of damage, wear, corrosion and separation of rope fibers.

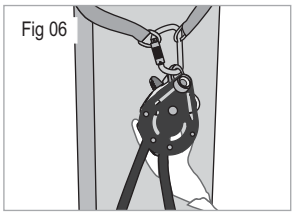


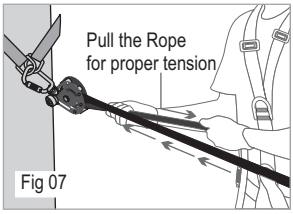


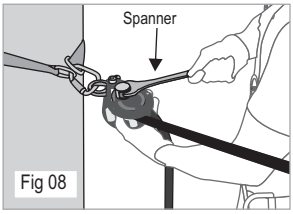


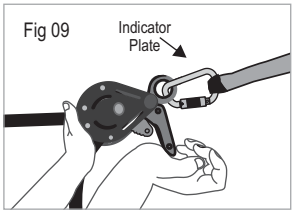












Installation of Temporary Horizontal Lifeline with tension indicator-

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STEP 6: Use an open end spanner of 0.944 inches 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. Fig. 08

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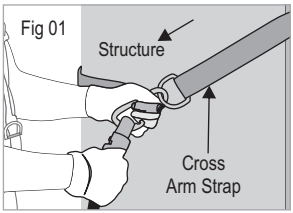
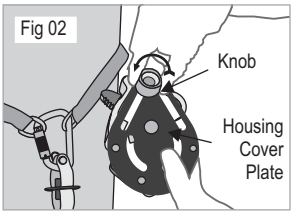
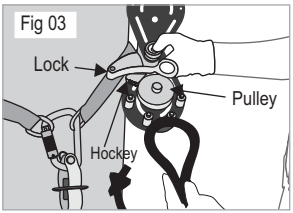
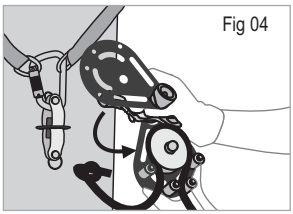
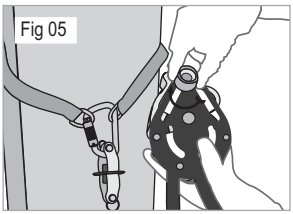
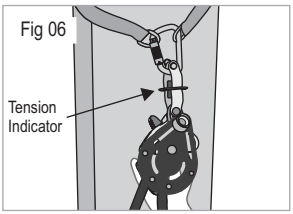


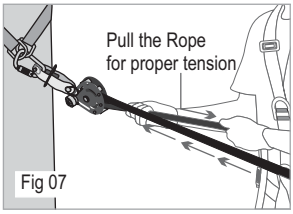


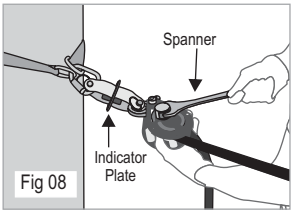


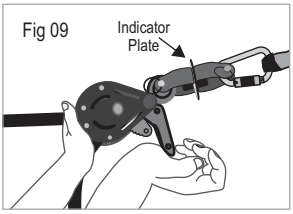








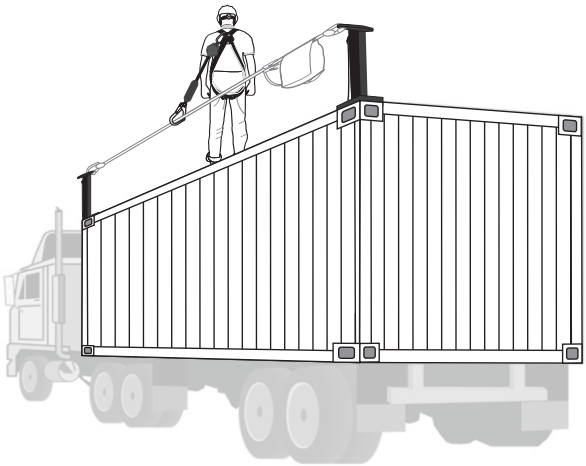


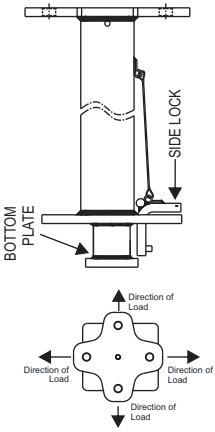


Note:- UFA40010 is provided with steel O-Rings to be used as mobile anchor for the workers to get connected to the lifeline permanently.

⚠**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.

INSTALLATION WITH CONTAINER ANCHOR POST- UFA30430





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 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.
- Maintenance of equipment must be done according to manufacturer's instructions. Equipment instructions must be retained for reference.
- 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 should be done unless explicitly permitted by the manufacturer.
- Equipment subjected to forces of fall arrest must immediately be removed from use. 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.
- 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 Suspension intolerance straps to reduce the effects of suspension trauma. Allowed individual worker weight limit (including all equipment), unless explicitly stated otherwise, is 130-310 lbs.

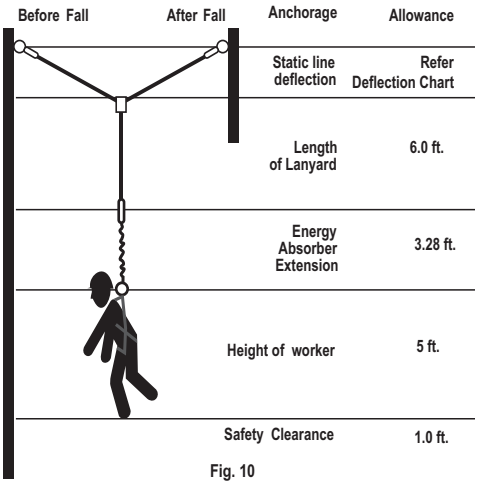


Fig. 10

IMPORTANT INFORMATION

Horizontal anchorage line is intended for use on span of upto 100 ft, for a fall of up to 4 users, with anchorage line fitted on spans of 15 ft. to 100 ft. the typical peak line deflection from the original position are stated in table above.

Anchorage Line Used With EA Lanyard

Deflection Chart

Span Length \ Users	1	2	3	4
15 ft.	2.32	2.6	2.67	2.74
20 ft.	2.97	3.25	3.41	3.5
25 ft.	3.62	4.05	4.16	4.28
30 ft.	4.27	4.78	4.9	5.04
35 ft.	4.92	5.51	5.65	5.81
40 ft.	5.57	6.24	6.4	6.58
45 ft.	6.22	6.96	7.14	7.35
50 ft.	6.87	7.69	7.89	8.11
55 ft.	7.52	8.42	8.64	8.88
60 ft.	8.17	9.14	9.38	9.65
65 ft.	8.81	9.87	10.13	10.42
70 ft.	9.46	10.6	10.87	11.18
75 ft.	10.11	11.33	11.62	11.95
80 ft.	10.76	12.05	12.37	12.72
85 ft.	11.41	12.78	13.11	13.49
90 ft.	12.06	13.51	13.86	14.25
95 ft.	12.71	14.24	14.6	15.02
100 ft.	13.36	14.96	15.35	15.79

Anchorage Line used with SRL

Deflection Chart

Span Length \ Users	1	2	3	4
15 ft.	2.15	2.41	2.47	2.54
20 ft.	2.75	3.08	3.16	3.25
25 ft.	3.35	3.75	3.85	3.96
30 ft.	3.95	4.43	4.54	4.67
35 ft.	4.55	5.1	5.23	5.38
40 ft.	5.15	5.77	5.92	6.09
45 ft.	5.75	6.44	6.61	6.8
50 ft.	6.35	7.12	7.3	7.51
55 ft.	6.95	7.79	7.99	8.22
60 ft.	7.56	8.46	8.68	8.93
65 ft.	8.16	9.13	9.37	9.64
70 ft.	8.76	9.81	10.06	10.35
75 ft.	9.36	10.48	10.75	11.06
80 ft.	9.96	11.15	11.44	11.77
85 ft.	10.56	11.83	12.13	12.48
90 ft.	11.16	12.5	12.82	13.19
95 ft.	11.76	13.17	13.51	13.9
100 ft.	12.36	13.84	14.2	14.61

MAINTENANCE, CLEANING AND STORAGE

Repairs to this product can only be made by a competent person or an entity authorized by manufacturer. If this product 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 this product .

Remove all dirt, corrosives, and contaminants from this product before and after each use. If this product cannot be cleaned with plain water, use mild soap and water, then rinse and wipe dry. NEVER clean this 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.

INSPECTION

- Keep Instructions available for reference. Record Date of First Use
- Prior to EACH use, inspect this product 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, bird-caging, and missing or illegible labels. IMMEDIATELY remove this product 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 this product. **Competent Person's 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 this product has been subjected to.

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 product may be used to support a MAXIMUM 4 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 3375 lbs.

Restraint: This product 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 3375 lbs. No free fall is permitted.

For all applications: worker weight capacity range (including all clothing, tools, and equipment) is 130-310 lbs.

This product should NEVER be used for simultaneous use in Fall Arrest and Restraint applications.

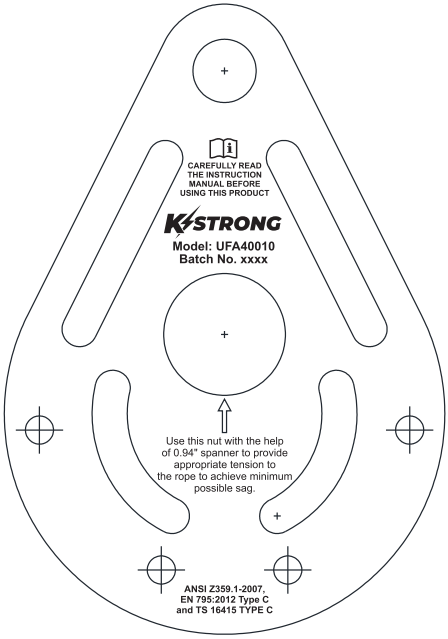
LIMITATIONS

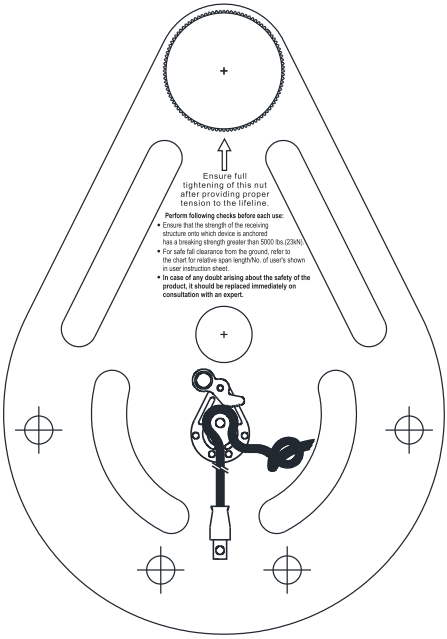
Fall Clearance: There must be sufficient clearance below the anchorage connector to arrest a fall before the user strikes the ground or an obstruction. When calculating fall clearance, account for a MINIMUM 4ft safety factor, deceleration distance, user height, length of lanyard/SRL, and all other applicable factors as shown in in Fig. 10.

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 product, 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 product by a Competent Person.

MARKINGS





KSTRONG®

100 FT. ADJUSTABLE WRANGLER™

4-PERSON TEMPORARY HORIZONTAL LIFELINE

Wrangler 4-Person Temporary Horizontal Lifeline
Model: UFA40010
Batch No.: XXXXX Serial No.: XXXXX
Maximum Span Length: 100 ft.
Minimum Breaking Strength: 5000 lbs.
Complies with ANSI Z359.1-2007, EN 795:2012 Type C and TS 16415 TYPE C

DOM:

Barcode

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

Materials of Construction: Tensioner - Aluminum and Stainless Steel, Rope Dia - 5/8" dia, Material of Rope - Polyester, Nylon. This device meets OSHA and ANSI Z359.1-2007 requirements for use as an anchorage connector.

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

⚠ WARNING

Read carefully the manufacture'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.

Inspection Grid **Made In India** **kstrong.com**

MO / YR	J	F	M	A	M	J	J	A	S	O	N	D
25												
26												
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Inspection - Before every use, user must inspect the product. Every 6 months a competent person must complete final inspection of the product and record initials.

DO NOT REMOVE THIS LABEL

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.

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.

EQUIPMENT RECORD		
Product:		
Model and type/identification	Trade name	Identification number
Manufacturer	Address	Tel, fax, email
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, repair carried out and other relevant information	Name and signature of competent user	Periodic examination next due date

KStrong Inc.
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