

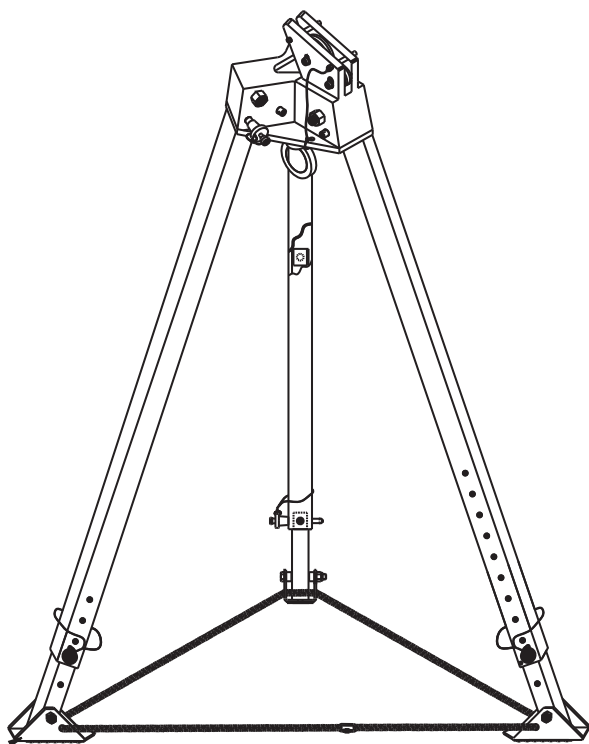


FALL PROTECTION

USER INSTRUCTIONS

TRIPOD SYSTEM

Complies with ANSI Z359.1, ANSI Z359.4 standards and OSHA 29 CFR 1910 and 1926 regulations.



Models: T100009, T210030B, T210060B, T210100B, T510000B, T510045,
T510000, T200001

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WARNING!

*Compliant fall protection equipment must only be used as it was designed. Users **MUST** read and follow all user instructions provided with the product. Before using a fall arrest system, users must be trained in the safe use of the system, as required by OSHA 29 CFR 1910.30 and 1926.503, or local safety regulations. **Misuse or failure to follow these warnings and instructions may result in injury or even death.***

WORK SAFE! WORK SMART!

IF YOU HAVE ANY QUESTIONS ABOUT THE PROPER USE OF THE EQUIPMENT, SEE YOUR SUPERVISOR, USER INSTRUCTIONS, OR CONTACT WERNER CO. FOR MORE INFORMATION.

WARNING!

All components of the Tripod System must be inspected prior to each use in accordance with the requirements of OSHA 29 CFR 1910.140 and 1926.502.

The Tripod System is designed for up to two users at one time for emergency rescue applications only.

Do not use the Tripod without the safety chain, or without safety chain properly adjusted.

Shoulder D-rings of the full body harness are for rescue and entry/retrieval applications only. Always use both shoulder D-rings together simultaneously.

Never use combinations of components or subsystems that may affect, or interfere with, the safe function of each other.

If inspection reveals any defect, inadequate maintenance, or unsafe condition, remove from service until a "competent" person, as defined by OSHA 29 CFR 1926.32(f), can determine the need for authorized repair or disposal.

Any equipment that has been subjected to the forces of arresting a fall, or that has a deployed load indicator, must be removed from service until a "competent person" can determine the need for authorized repair or disposal.

USE INSTRUCTIONS AND LIMITATIONS

IMPORTANT

Before use, the user must read and understand these User Instructions. Keep these User Instructions for reference.

PURPOSE

The Tripod System is designed to be used as part of a personal fall arrest, rescue, work positioning, or material handling system.

USE INSTRUCTIONS

1. Failure to follow all instructions and limitations on the use of the Tripod System may result in serious personal injury or death.
2. Before using a personal fall arrest system, employees must be trained in accordance with the requirements of OSHA 29 CFR 1910.30 in the safe use of the system and its components.
3. Personal fall arrest systems, including the Tripod System, must be inspected prior to each use for wear, damage, and other deterioration. Defective components must be immediately removed from service, in accordance with the requirements of OSHA 29 CFR 1910.140 and 1926.502.
4. The complete fall protection system must be planned (including all components, calculating fall clearance, and swing fall) before using.
5. Users must have a rescue plan, and the means to implement it, that provides for the prompt rescue of employees in the event of a fall, or assures that employees are able to rescue themselves.
6. Store the Tripod System in a cool, dry, clean environment and out of direct sunlight when not in use.
7. After a fall occurs on the system, immediately remove from service until a "competent person" can make the determination for reuse or disposal.

USE LIMITATIONS

1. **CAPACITY:** The Tripod System is designed for a single user only, and is designed for two users at one time only for emergency rescue applications, with a capacity (including clothing, tools, etc.) up to 310 pounds (140 kg) total working weight per user, in conjunction with compatible connecting components.
2. **EXTENDED SUSPENSION:** The Tripod System is designed for use in extended suspension applications.
3. **CORROSION:** Do not leave the Tripod System in environments where corrosion of metal parts could take place as a result of vapors from organic materials. Use near seawater or other corrosive environments may require more frequent inspections to ensure corrosion damage is not affecting the performance of the product.



4. **CHEMICAL HAZARDS:** Solutions containing acids, alkali, or other caustic chemicals, especially at elevated temperatures, may cause damage to the Tripod System. When working with such chemicals, frequent inspection of this equipment must be performed. Contact Werner Co. with any questions concerning the use of the Tripod System around chemical hazards.
5. **EXTREME TEMPERATURE:** The Tripod System is designed to be used in temperatures ranging from -40°F to +130°F (-40°C to +54°C). Protection should be provided for Tripod System when used near welding, metal cutting or similar activities. Contact Werner Co. with any questions concerning high temperature environments.
6. **ELECTRICAL HAZARDS:** Use extreme caution when working near high voltage power lines due to the possibility of electric current flowing through the Tripod System or connecting components.
7. **ANCHORAGES:** The anchorage must be capable of supporting loads applied in all directions permitted by the system of 5,000 pounds (22.2 kN), or twice the maximum arrest load.
8. **COMPONENT COMPATIBILITY:** Only components approved by Werner Co. may be used with the Tripod System.
9. **SYSTEMS:** Only one personal fall arrest system may be in use on the Tripod System. A maximum of two systems (retrieval and fall arrest) may be in use at the same time on the Tripod. Only one system may be attached to any one Tripod leg.
10. **SUBSYSTEMS:** Only connecting subsystems that limit the maximum arrest force to less than 1,800 pounds (8 kN) may be used with the Tripod System.
11. **HEALTH:** Minors, pregnant women and anyone with a history of either back or neck problems should not use this equipment.
12. **TRAINING:** Do not use or install the Tripod System without proper training from a "competent person" per OSHA 29 CFR 1926.503 or a "qualified person" per OSHA 29 CFR 1910.30.
13. **REPAIRS:** Only Werner Co., or persons or entities authorized in writing by Werner Co., may make repairs or alterations to the equipment.

ANCHORAGE REQUIREMENTS

ANCHORAGES

All anchorages on which the Tripod System mounts must meet the requirements of ANSI Z359.1-2007 and OSHA 29 CFR 1910.140 and 1926.502.

TRIPOD SYSTEM

USER INSTRUCTIONS

OSHA states:

Anchorage used for attachment of personal fall arrest equipment shall be independent of any anchorage being used to support or suspend platforms and capable of supporting at least 5,000 pounds (22.2 kN) per employee attached, or shall be designed, installed, and used as part of a complete personal fall arrest system which maintains a safety factor of at least two; and under the supervision of a qualified person.

ANSI Z359.1-2007 states that anchorages in a personal fall arrest system must have a strength capable of sustaining static loads, applied in all permitted directions by the system, of at least:

- (a) two times the maximum arrest force permitted on the system when certification exists, or
- (b) 5,000 pounds (22.2 kN) in the absence of certification

The strength in (a) and (b) must be multiplied by the number of personal fall arrest systems attached to the anchorage, when more than one personal fall arrest system is attached to the anchorage.

Anchorages used in work positioning systems must be capable of supporting loads of 3,000 pounds (13.3 kN) for non-certified anchorages or two times the foreseeable force for certified anchorages per ANSI Z359.2-2007.

Anchorages used in rescue and controlled descent systems must be capable of supporting loads of 3,100 pounds (13.8 kN) for non-certified anchorages or a 5:1 safety factor for certified anchorages per ANSI Z359.4-2007.

ANCHORAGE CONNECTORS

Anchorage connectors function as an interface between the anchorage and the personal fall arrest system, for the purpose of coupling the system to the anchorage. The Tripod is the anchorage connector and is designed to meet a 5,000 pound tensile load when statically tested in accordance with the requirements of the ANSI Z359.1-2007 standard.

CONNECTION REQUIREMENTS

COMPATIBILITY LIMITATIONS

All connecting subsystems must only be coupled to compatible connectors. OSHA 29 CFR 1926.502 prohibits snap hooks from being engaged to certain objects unless two requirements are met: snap hook must be a locking type and must be "designed for" making such a connection. Under OSHA 29 CFR 1926.502 "designed for" means that the manufacturer of the snap hook



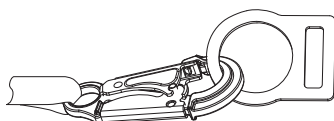
specifically designed the snap hook to be used to connect to the equipment in question.

The following connections must be avoided, because they can result in rollout* when a non locking snap hook is used:

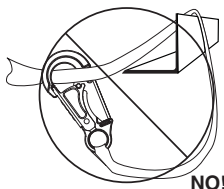
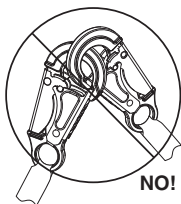
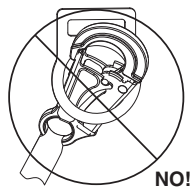
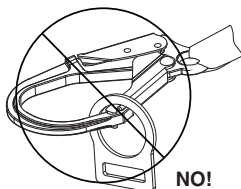
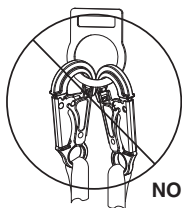
- Direct connection of a snap hook to horizontal lifeline.
- Two (or more) snap hooks connected to one D-ring.
- Two snap hooks connected to each other.
- A snap hook connected back on its integral lanyard.
- A snap hook connected to a webbing loop or webbing lanyard.
- Improper dimensions of the D-ring, rebar, or other connection point in relation to the snap hook dimensions that would allow the snap hook keeper to be depressed by a turning motion of the snap hook.

***Rollout:** A process by which a snap hook or carabiner unintentionally disengages from another connector or object to which it is coupled. (ANSI Z359.0)

COMPATIBLE CONNECTIONS



INCOMPATIBLE CONNECTIONS



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TRIPOD SYSTEM

USER INSTRUCTIONS

SNAP HOOKS AND CARABINERS

Snap hooks and carabiners used in the Tripod System, marked with the ANSI Z359.1-07 or ANSI Z359.12-09 standard, are self-locking with a minimum tensile break strength of 5,000 pounds (22.2 kN), and a 3,600 pound (16 kN) gate rating.

SYSTEM COMPONENTS

COMPATIBILITY LIMITATIONS

All components and subsystems used with the Tripod System have been tested as part of a complete fall arrest system. Only components and subsystems approved by Werner Co. are to be used with the Tripod System.

ANCHORAGE CONNECTORS

TRIPOD: T100009

The high strength aluminum Tripod extends from 70 inches (1.7 m) to 84 inches (2.1 m) for installation over openings with a maximum diameter of 72 inches (1.8 m) at lowest height to a diameter up to 80 inches (2.0 m) at tallest height.

The head of the Tripod includes two $\frac{5}{8}$ inch forged steel eye bolts. The eye bolts are for ANSI Z359.1-07 and ANSI Z359.4-07 direct connection of fall arrest and rescue subsystems.

The aluminum feet have rubber skid pads and a safety chain to help prevent the legs from spreading apart.

SRL-R MOUNTING BRACKET: T210030B, T210060B, T210100B

The steel Mounting Bracket attaches to any leg of the tripod. The T210030B is designed to fit the T210030 3-Way Self Retracting Lifeline with Rescue Capability (SRL-R), the T210060B is designed to fit the T210060 SRL-R and the T210100B is designed to fit the T210100 SRL-R.

MATERIAL HOIST MOUNTING BRACKET: T510000B

The steel Mounting Bracket attaches to any leg of the tripod. The T510000B is designed to fit the T510045 Hoist.

PULLEY: T200001

The aluminium alloy Pulley is designed for use with up to a $\frac{7}{16}$ inch (12 mm) diameter steel cable. The Pulley has a 8,100 pound (36 kN) tensile breaking strength.



CONNECTING DEVICES

3-WAY SELF RETRACTING LIFELINE WITH RESCUE CAPABILITY: T210030, T210060, T210100

The 3-Way Self Retracting Lifeline with Rescue Capability (SRL-R) are designed for a single user with a capacity up to 310 pounds (140 kg) including clothing, tools, etc, and comes in 30 feet (T210030), 60 feet (T210060) and 100 feet (T210100) lengths. The 3-Way SRL-Rs have a polymer housing, and utilize a $\frac{3}{16}$ inch (4.8 mm) diameter (7x19) galvanized steel cable. When dynamically tested in accordance with the requirements of the ANSI Z359.14 standard for Class B for SRLs, the 3-Way SRL-Rs have an average arrest force of less than 900 pounds (4 kN) and a maximum arrest distance of 54 inches (1372 mm).

MATERIAL HOIST: T510045

The Material Hoist is capable of raising and lowering loads of 450 pounds and has 60 feet (18 m) of $\frac{3}{16}$ inch (4.8 mm) diameter (7x19) galvanized steel cable. The Material Hoist requires the T510000B Mounting Bracket for mounting onto the Tripod.

INSTALLATION

WARNING!

All components of the Tripod System must be inspected prior to each use in accordance with the requirements of OSHA 29 CFR 1910.140 and 1926.502.

BEFORE EACH USE

Users must have a rescue plan, and the means to implement it, that provides for the prompt rescue of employees in the event of a fall or assures that employees are able to rescue themselves.

The user must read and understand these user instructions, as well as the user instructions for every component and subsystem of the personal fall arrest system. The entire Tripod System, and its subsystems, must be inspected prior to each use. See INSPECTION.

The Tripod System must be mounted on stable level surface for each leg and positioned over an opening that is within the installation diameter specified on page 7.

TRIPOD SYSTEM

USER INSTRUCTIONS

MULTIPLE SYSTEMS

Multiple systems may be attached to the Tripod; however, the Tripod is for a single user only. A maximum of two systems may be attached to one Tripod, and a maximum of one system may be attached to any one Tripod leg.

WARNING!

The Tripod System is designed for up to two users at one time for emergency rescue applications only.

STEP 1: ASSEMBLE TRIPOD

Place the Tripod on the floor with the feet on the ground. Remove the locking pins from the head of the Tripod. Pull the legs away from the center and replace the locking pins in head to secure the legs in the open position. Extend legs to desired length and secure in place with locking pin. Place the Tripod over the entry point. Adjust the Tripod as necessary by removing the leg pins so the Tripod is level above the entry point. Remove excess slack in the safety chain by adjusting the position of the carabiner.

WARNING!

Do not use the Tripod without the safety chain or without safety chain properly adjusted.

STEP 2: ATTACH SRL-R MOUNTING BRACKET (T210030B, T210060B, T210100B)

The mounting bracket attaches to the upper leg of the Tripod. Remove two locking pins on the bottom of the mounting bracket and place on upper leg of the Tripod orientated so the flange of the mounting bracket is on the external right. Insert locking pins through holes on the bottom of the mounting bracket and through upper leg of the tripod.

STEP 3: MOUNT 3-WAY SRL-R

Loosen the large washer on the back of the 3-Way SRL-R with an allen wrench. Orient 3-Way SRL-R so the cable is facing the top of the Tripod and the crank is to the right. Mount 3-Way SRL-R to the right side of the mounting bracket flange. Slide the large washer into the slot on the mounting bracket and tighten with allen wrench. Insert hand screw through the swivel top of the 3-Way SRL-R through the bottom of the mounting bracket and hand tighten.



STEP 3A: ATTACH THE MATERIAL HOIST

The material hoist attaches to the mounting bracket with four bolts supplied with the mounting bracket. Insert the four bolts through the mounting bracket and into the material hoist. Tighten in a diagonal sequence using allen wrench. Place material hoist on the upper leg of the Tripod, orientated so the drum of the material hoist is towards the top of the Tripod. Insert locking pins through holes on the bottom of the mounting bracket and through upper leg of the Tripod.

STEP 4: TURN CABLE OVER PULLEY ON TOP OF TRIPOD

Remove the pin above the pulley on the top of the Tripod and feed the cable over the pulley and through the center hole in the head of the Tripod. Replace the pin above the pulley.

STEP 4A: TURN CABLE OVER PULLEY

Twist both sides of the T200001 Pulley open to allow insertion of cable. Insert the cable of 3-Way SRL-R or material hoist and twist both sides to original position. Lock both sides together by attaching the carabiner on the head of the Tripod.

CONNECTION

NUMBER OF USERS

The Tripod System is designed for a single user only, and is designed for two users at one time only for emergency rescue applications, with a capacity (including clothing, tools, etc.) up to 310 pounds (140 kg) total working weight per user.

3-WAY SRL-R FOR FALL ARREST APPLICATIONS

The 3-Way SRL-R must only be connected to the dorsal D-ring of the full body harness for a fall arrest application.

3-WAY SRL-R FOR RESCUE APPLICATIONS

The 3-Way SRL-R may be connected in multiple ways for rescue applications.

- 3-Way SRL's connected to the dorsal D-ring of the full body harness for fall arrest may be used for rescue.
- The 3-Way SRL-R may attach to the Class L sternal (front) D-ring of the full body harness on a user in need of rescue. See full body harness user instructions for more information.

TRIPOD SYSTEM

USER INSTRUCTIONS

- The 3-Way SRL-R may attach to a rescue yoke in rescue applications. The rescue yoke connects to Class E shoulder D-rings on the full body harness of a user in need of rescue. See full body harness user instructions for more information.



WARNING!

Shoulder D-rings of the full body harness are for rescue and entry/retrieval applications only. Always use both shoulder D-rings together simultaneously.

3-WAY SRL-R FOR POSITIONING APPLICATIONS

3-Way SRL-R's may attach to the D-ring of a bosun chair for positioning applications. A separate personal fall arrest system connected to the dorsal D-ring of the full body harness is required with the use of a bosun chair. See bosun chair user instructions for more information.

SELF-RETRACTING LIFELINES (SRLs)

Attach the housing connector of the self-retracting lifeline to the eye bolt in the head of the Tripod. The opposite end is connected to the dorsal D-ring of the full body harness. **Never attach an additional energy absorbing lanyard or self-retracting lifeline to lengthen the lifeline.** See user instructions supplied with the Self Retracting Lifeline.



WARNING!

Never use combinations of components or subsystems that may affect, or interfere with, the safe function of each other.

VERTICAL LIFELINES

Attach the Vertical Lifeline to the eye bolt in the head of the Tripod. Ensure the Vertical Lifeline hangs freely without twists or knots in the lifeline. See user instructions supplied with the Vertical Lifeline.



INSPECTION AND MAINTENANCE

WARNING!

If inspection reveals any defect, inadequate maintenance, or unsafe condition, remove from service until a “competent person”, as defined by OSHA 29 CFR 1926.32(f), can determine the need for authorized repair or disposal.

CAUTION!

Proper Personal Protective Equipment must be worn when performing Inspection and Maintenance procedures.

FREQUENCY

All components of the Tripod System must be inspected prior to each use and annually by an OSHA defined “competent person” other than the user. Local, state, governmental and jurisdictional agencies governing occupational safety may require the user to conduct more frequent or mandatory inspections.

CRITERIA

WARNING!

Any equipment that has been subjected to the forces of arresting a fall, or that has a deployed load indicator, must be removed from service until a “competent person” can make the determination for reuse or disposal.

All components and subsystems of the Tripod System must be inspected. See user instructions supplied with the product for inspection criteria.

All markings must be legible and attached to the product.

TRIPOD SYSTEM

USER INSTRUCTIONS

Each leg must be able to lock in place at the head of the Tripod with the locking pin. Each leg must be straight and able to lock into place with the locking pin when extended. The foot on each leg must pivot freely and have the rubber skid pads attached. The head of the Tripod including the eye bolt and the safety chain must be free of damage.

All equipment must be free of corrosion, chemical attack, alteration, excessive heating or wear.

All snap hooks and carabiners must be able to self-close and lock. All hardware must be free of cracks, sharp edges, deformation, corrosion, or any evidence of defect.

CLEANING AND STORAGE

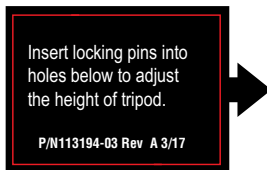
CLEANING

Cleaning maintenance may be performed by the user. The Tripod System may be wiped down with a mild detergent and clean water solution and rinsed with a dampened clean cloth to remove detergent. The hardware can also be wiped down to remove grease or dirt with a clean dry cloth.

STORAGE

The Tripod System should be stored in a cool, dry place out of direct sunlight when not in use. Do not store where damage from environmental factors such as heat, light, excessive moisture, oil, chemicals and their vapors, or other degrading elements may be present.

Do not store damaged equipment or equipment in need of maintenance in the same area as product approved for use. Equipment that has been stored for an extended period must be inspected as defined in these user instructions prior to use.



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TRIPOD SYSTEM

USER INSTRUCTIONS

EQUIPMENT RECORD

MODEL NUMBER

PURCHASE DATE

SERIAL NUMBER

ASSIGNED TO

DATE
MANUFACTURED

SPECIFICATION

WERNER Co. TRIPOD SYSTEM

This product meets ANSI Z359.1 and ANSI Z359.4 standards and OSHA 29 CFR 1910.140 and 1926.502 regulations for the anchorage connector component of a complete personal fall arrest/rescue system.

Individually bar coded model and serial numbers, location and date of manufacture are on product label.

INSPECTION RECORD

DATE	INSPECTOR	PASS/FAIL

DATE	INSPECTOR	PASS/FAIL

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