



FALL PROTECTION
PROTECCIÓN CONTRA CAÍDAS

USER INSTRUCTIONS

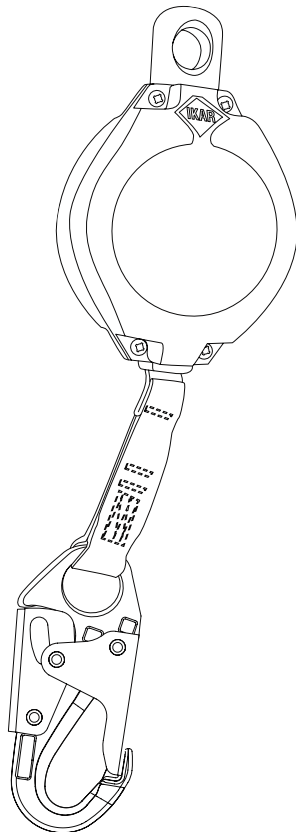
INSTRUCCIONES PARA EL USUARIO

SELF-RETRACTING LIFELINE

Complies with ANSI Z359.1-2007,
OSHA 1910 and 1926 requirements.

CUERDA SALVAVIDAS AUTO-RETRÁCTIL

Cumple con las normas ANSI Z359,
1-2007, OSHA 1910 y 1926.



AutoCoil 2™

SELF RETRACTING LIFELINE
CUERDA SALVAVIDAS AUTO-RETRÁCTIL

(This manual applies to all self-retracting lifelines with model numbers starting R2.)

(Este manual aplica a todas las cuerdas salvavidas auto-retráctiles con números de modelo que comienzan en R2).

Werner Fall Protection
93 Werner Rd.
Greenville, PA 16125

724-588-2000
888-523-3371 toll free/ llamada gratuita
888-456-8458 fax



CAUTION!

If use of fall protection equipment is necessary, then the work environment is dangerous and potentially deadly. Werner Co. products are designed to eliminate as much of the hazard as possible, but can do that ONLY if they are used correctly. Use this equipment as it was designed to be used, after appropriate training, under the direct supervision of a competent person, according to the instructions provided, and in accordance with OSHA and local safety regulations. User MUST read and understand all cautions and instructions. Failure to heed these guidelines could result in injury or even death. WORK SAFE! WORK SMART!

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Warning:

This product is just one part of a personal fall arrest system. It must be matched correctly with other components to form a complete and functional system. The user must understand the function of each of these components and follow the manufacturer's instructions for use for each. The user must be provided these instructions, should read and follow them, and consult the competent person who will supervise his work if he has any questions about any part of the instructions. The employer must provide training in the proper use, inspection, and maintenance of all components in the system, and these instructions can be used as part of that training. The equipment should be used ONLY in accordance with these instructions, local ordinances and codes, the applicable OSHA and ANSI standards, and the employer's safety plan.

This Self-Retracting Lifeline (SRL) system is designed to provide a variable length energy absorbing connection from an approved anchorage to the dorsal (back) D-ring of an approved fall protection harness. Use of an SRL is appropriate for doing work that requires movement, especially when changing levels.

IF YOU HAVE ANY QUESTIONS ABOUT ANYTHING IN THESE INSTRUCTIONS, THE EQUIPMENT, OR PROPER USE OF THE EQUIPMENT, CONTACT WERNER CO. FOR MORE INFORMATION.

I. Before Using the Self-Retracting Lifeline

Before using this equipment the user should take certain steps to ensure that it is in suitable condition and safe for use. Users must read and understand these instructions. It is the employer's obligation to ensure that all users have been trained in safe work procedures as well as in the use and limitations of fall protection equipment. All users should be aware of and comply with all applicable OSHA, ANSI and local or regional regulations concerning fall protection equipment and its use.

a. Inspect

Examine all equipment thoroughly, daily before use by the user, and periodically by a competent person who is not the user.

SELF-RETRACTING LIFELINES

USER INSTRUCTIONS

Verify the condition of each component. If any damage or abnormalities are found, the equipment should be removed from service. No modifications to the equipment are permitted. Verify that all components are present, intact and undamaged, and functioning correctly.

1. Inspect the housing for any dents, cracks, loose fasteners, or any other condition that could affect the safe use and operation of the unit.
2. Open and close the snap hook several times to ensure the mechanisms are working smoothly, correctly, and the snap hook's gate closes completely.
3. Put on leather gloves for protection and pull the cable, rope or web completely from the SRL while sliding it through the gloved hand. Carefully examine every inch as it retracts, looking for cuts, abrasions, chemical damage, corrosion, kinks, or any other damage that could weaken it. Check the ferrules for cracking, corrosion, or any indication of movement. If any damage is found, the device should be immediately removed from service for repair.
4. Once the device is mounted into its working position but before connecting to it, pull the cable out to verify the line has adequate tension and exits and retracts smoothly. Test the brake mechanism by giving the cable several sharp tugs to engage the pawls. The device should lock each time with no slipping.
5. Check the load indicator for signs of activation. On models with a web lifeline this is a stitch pattern near the hook (see figure 1). On all other models the snaphook contains a red impact indicator (see figure 2). If the device has

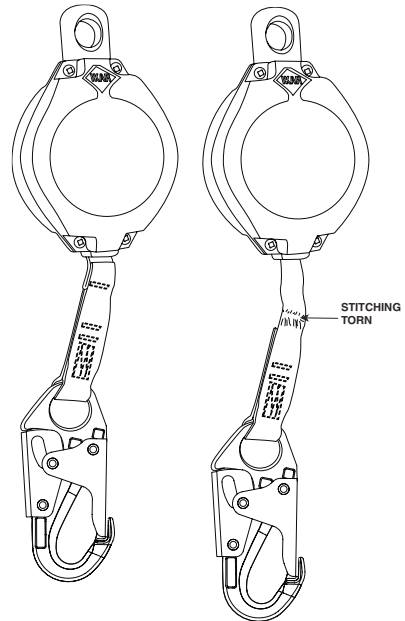


figure 1

suffered impact loading from a fall, the snap hook's red impact indicator will be visible and products should be removed from service.

6. Verify that all labels are intact, in place, and legible. If abnormalities are found in any of these areas then the competent person should be consulted to determine if that item is safe for continued use or if it should be removed from service.

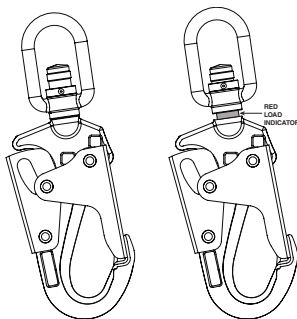
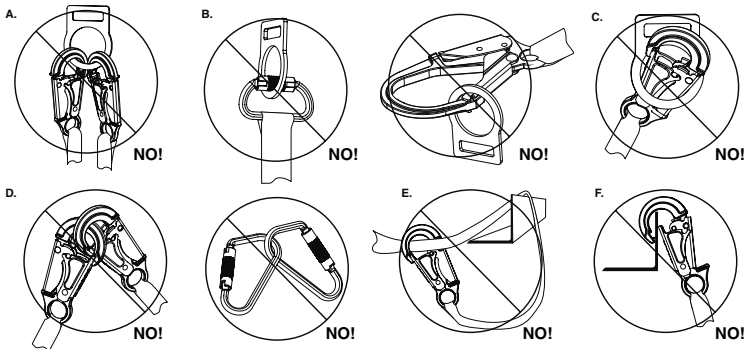


figure 2

INAPPROPRIATE CONNECTIONS



b. Compatibility

Verify compatibility of any subsystems being used. Werner Co. products connected to Werner Co. products should be compatible. Connection to other products must be verified for compatibility to ensure there is no accidental detachment from side-loading, rollout, non-standard closures, etc.

c. Clearance

Verify that adequate clearance exists below the work area and there are no objects or obstructions below the work area that the user could contact in the case of a fall.

SELF-RETRACTING LIFELINES

USER INSTRUCTIONS

d. Rescue plan

If a worker falls and is forced to remain suspended for any length of time, physical damage to the body or even death can result. For this reason Werner Co., OSHA, ANSI and most local regulations require that a rescue plan and the means to implement the rescue plan are in place before use of this equipment.

e. Training

OSHA, ANSI, and most local ordinances require that workers using this product receive adequate training before use of this product. These instructions and their entire contents should be a part of that training.

II. Self-Retracting Lifeline Installation and Use

a. Choose adequate anchorage

1. Verify strength of the anchorage chosen, which must be 5000 lbs (22.2kN), or twice the maximum expected impact load, as certified by a qualified person.
2. Only one worker should be connected to any one anchorage point.

b. Cable slack

Never permit the cable of a retractable lifeline to become slack. If the cable is not properly retracting into the unit it must be removed from service for inspection/repair.

c. Rewinding device

Cable should always be permitted to rewind into the device slowly in a controlled manner. NEVER release the extended cable so the cable rewinds unrestrained. To do so could damage the return mechanism.

d. Spring tension

Never leave the cable in an extended position for a prolonged period of time. To do so could affect the return spring tension. Use of a tag line for devices mounted permanently overhead will eliminate any need to leave the cable extended.



e. Maintenance

1. Periodically clean the housing exterior and lifeline with water and a mild detergent. Rinse and towel and air dry.
2. Store in a clean, dry environment when not in use.
3. No alteration or modification of the device is permitted. Do not attempt to open the device. It contains no user-serviceable parts. If opened or modified the device should be removed from service and returned to Werner Co. for inspection.

f. Repair Service

Any service or repair, such as lifeline replacement, must be completed by an authorized service center. An authorization and return number must be issued by Werner Co. Please contact Werner Co. directly for more information about service and repairs.

g. Securing Single Leg Models

1. Secure SRL to anchorage
 - i. Connect body of retractable unit to the anchorage or anchorage connector using the carabiner supplied or other compatible hardware. Do not use a connector that will not close completely when attached to anchor or anchorage connector.
 - ii. The carabiner supplied with this unit comes with a roll pin, that when installed provides a captive eye for connection to the self retracting lifeline. Installation of the roll pin is optional. To install the roll pin, drive the pin into the pre-drilled hole in the back bar of the carabiner using a punch. The open side of the roll pin should be facing away from the lanyard or lifeline material. Continue driving the pin through the back bar and into the front bar until the pin is flush on the outside of the back bar.
 - iii. To connect the carabiner to the connection point, rotate the gate clockwise and push to the center of the carabiner. When positioned around a connection point, release the gate to close and lock.
2. Secure SRL to harness
 - i. Connect SRL cable/web/rope snap hook only to the dorsal (back) D-ring on the user's harness.

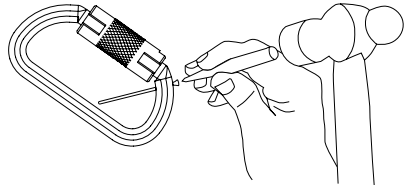
SELF-RETRACTING LIFELINES

USER INSTRUCTIONS

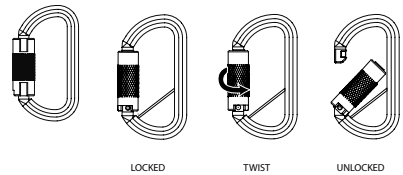
h. Securing Dual Leg Models

1. Securing SRL to Harness

- i. Connect body of retractable unit to the rear D-ring on the harness using the carabiner supplied or other compatible hardware.
- ii. The carabiner supplied with this unit comes with a roll pin, that when installed provides a captive eye for connection to the self retracting lifeline. Installation of the roll pin is optional. To install the roll pin, drive the pin into the pre-drilled hole in the back bar of the carabiner using a punch. The open side of the roll pin should be facing away from the lanyard or lifeline material. Continue driving the pin through the back bar and into the front bar until the pin is flush on the outside of the back bar.

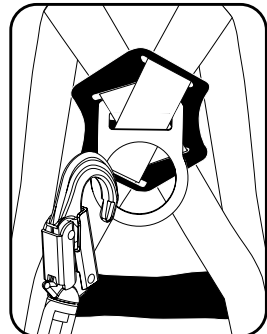


- iii. To connect the carabiner to the harness, rotate the gate clockwise and push to the center of the carabiner. When positioned around a connection point, release the gate to close and lock. The SRL should be attached to the back D-ring.



2. Securing to anchorage and use

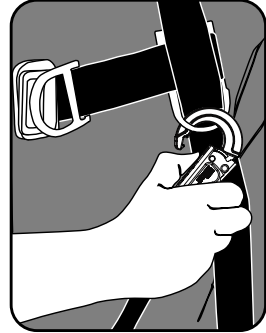
- i. Connect one of the free ends to an anchor or anchor connector ensuring that the connection is compatible. With one SRL leg still attached, the user can move to a new location to attach the second SRL leg to a different anchor and then disconnect the first leg



ENGLISH



- ii. When not in use the SRL leg should be “parked” on the wearer’s chest lanyard keeper, never to a permanently fixed component on the harness (hip D-ring, chest D-ring, etc.).



III. Use Warnings, Restrictions and Cautions

a. Adequate anchorages

OSHA requires anchor strengths of 5000 lbs (22.2 kN), or twice the maximum expected load, as certified by a qualified person. Use of any anchorage that is of inadequate strength could result in injury or death.

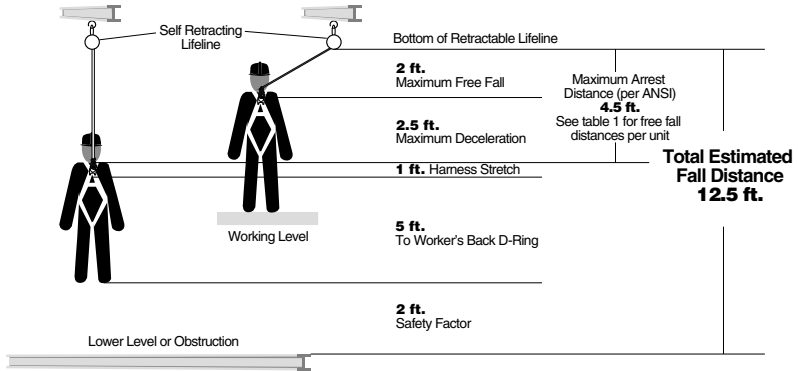
b. Fall Distance

Contact with a lower level can occur even when this equipment is in perfect operating condition if there is any object in the path of the fall or if the height of the anchorage being used is inadequate. The fall distance can vary according to the connecting subsystem used. The following diagram indicates typical clearance calculations for self-retracting lifelines. While this depicts a typical situation the authorized/competent person on site should make this determination for each work situation depending on the site-specific conditions.

SELF-RETRACTING LIFELINES

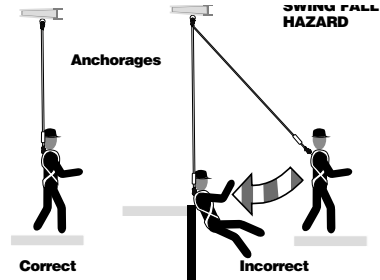
USER INSTRUCTIONS

Fall distance for self-retracting lifeline



c. Swing Fall Hazard

Position the worker below the anchorage so if a fall occurs the worker will not swing into an object below the work surface.



d. Rated capacity

Rated for use by a maximum of 310 lbs (141kg) for the combined weight of a worker and all tools when part of a complete fall protection system. **DO NOT EXCEED THIS WEIGHT.**

e. Environmental hazards

This equipment is to be used only under the direct supervision of a competent person who is able to identify hazards that must be avoided, including electricity and chemicals, machinery or other moving objects, sharp edges, damaged anchorages or structures, or any other workplace element that could damage this equipment or prevent it from operating as intended.



f. Components / Subsystems

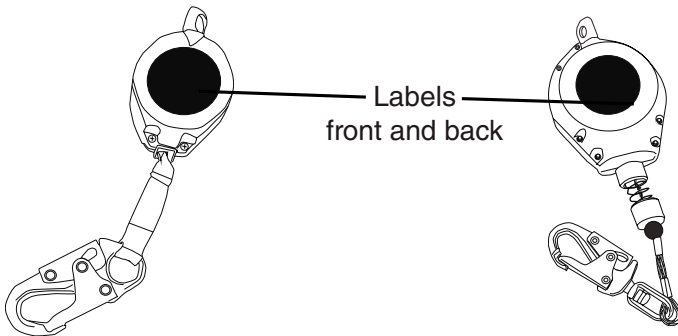
Before first use, a qualified person should inspect all components and ensure subsystems are compatible and will perform correctly when combined into a complete personal fall protection system. Consult the information in these instructions, and if any additional information is needed, contact Werner Co. directly.


IV. Labels/Identification/Inspection Records

- a.** All products should be inspected by the user thoroughly before each use. Additional inspections by a competent person other than the user should be conducted at least annually. That interval should be shortened any time the product is used in a harsh environment or is exposed to conditions such as chemicals, abrasion, heat or any other factor that could affect the strength of any of the materials or components.
- b.** The product labels provide an inspection grid to record these inspections by a competent person. Use a permanent marker to record those dates.
- c.** This manual should always accompany the product or be on file with the employer for access when needed. Record the identification details for the anchor and record the inspections in the inspection record on page 17. It is important to maintain this log with current, complete information and have it available as needed.

SELF-RETRACTING LIFELINES

USER INSTRUCTIONS





AutoCoil 2™

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SELF RETRACTING LIFELINE

Model: **R210020**
 Lifeline Length: **20 feet**
 Serial Number: **1234567**
 Manufactured: **09/2012**


Standard Code Z359.1-07
 OSHA 1910 & 1926

YEAR 1 1 2 3 4 5 6 7 8 9 10 11 12
 YEAR 2 1 2 3 4 5 6 7 8 9 10 11 12

Inspection Log 1 2 3 4 5 6 7 8 9 10 11 12 YEAR 5

YEAR 3 1 2 3 4 5 6 7 8 9 10 11 12
 YEAR 4 1 2 3 4 5 6 7 8 9 10 11 12

Maximum Arrest Force **1350 lbs or Less**
 Maximum User Weight **310 lbs**
 Arrest Distance **54" or Less**



Material-Diameter/ Width & Thickness
Galvanized Steel Wire Rope
.1875" Diameter

WARNING

Read all warnings and instructions in User Manual prior to use. If missing, contact Werner Co. for a replacement. Inspect product prior to each use, then at least monthly by a competent person who is not the user. Verify product is suitable for fall protection system chosen before beginning work. Ensure anchorage strength is 5000 lbs. (22.2kN) or more, or certified by a Qualified Person. Before each use withdraw some cable and tug sharply to ensure pawls engage properly. User repairs or alterations are **NOT** permitted. Avoid exposure to sharp edges, chemicals, or environmental hazards that could weaken the materials. Only back harness D-ring (A) to be used for fall arrest. Verify connectors are compatible (See User Manual).

OSHA and local regulations require workers receive training in the use of fall protection equipment, and that a plan for rescue be in place.

Work directly below, never above, the device to prevent swing falls, and check for unobstructed clearance beneath. Maintain tension as cable retracts, never release. Do not permit cable to become slack, and ensure it retracts fully into device.



**FAILURE TO READ AND HEED ALL WARNINGS
 COULD RESULT IN INJURY OR DEATH!**



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WERNER **AutoCoil 2™**

SELF RETRACTING LIFELINE

Model: **R210030**
 Lifeline Length: **30 feet**
 Serial Number: **1234567**
 Manufactured: **09/2012**

Inspection Log 123456789101112 YEAR 5

Maximum Arrest Force **1350 lbs or Less**
 Maximum User Weight **310 lbs**
 Arrest Distance **54" or Less**

Material-Diameter/ Width & Thickness
Galvanized Steel Wire Rope
.1875" Diameter

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YEAR 1 123456789101112
 YEAR 2 123456789101112
 YEAR 3 123456789101112
 YEAR 4 123456789101112

Standard Code Z359, 1-07
 OSHA 1910 & 1926

WARNING

Read all warnings and instructions in User Manual prior to use. If missing, contact Werner Co. for a replacement. Inspect product prior to each use, then at least monthly by a competent person who is not the user. Verify product is suitable for fall protection system chosen before beginning work. Ensure anchorage strength is 5000 lbs. (22.2kN) or more, or certified by a Qualified Person. Before each use withdraw some cable and tug sharply to ensure pawls engage properly. User repairs or alterations are **NOT** permitted. Avoid exposure to sharp edges, chemicals, or environmental hazards that could weaken the materials. Only back harness D-ring (A) to be used for fall arrest. Verify connectors are compatible (See User Manual). OSHA and local regulations require workers receive training in the use of fall protection equipment, and that a plan for rescue be in place.

Work directly below, never above, the device to prevent swing falls, and check for unobstructed clearance beneath. Maintain tension as cable retracts, never release. Do not permit cable to become slack, and ensure it retracts fully into device.

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SELF-RETRACTING LIFELINES

USER INSTRUCTIONS



SELF RETRACTING LIFELINE

AutoCoil 2™

Material-Diameter/
Width & Thickness
**Galvanized Steel
Wire Rope
.1875" Diameter**

Standard Code
Z359.1-07
OSHA 1910 & 1926

Model: **R210060**
Lifeline Length: **60 feet**
Serial Number: **1234567**
Manufactured: **09/2012**

	1	2	3	4	5	6	7	8	9	10	11	12
Year 1												
Year 2												
Year 3												
Year 4												
Year 5												

Inspection Log

Maximum Arrest Force **1350 lbs or Less** Maximum User Weight **310 lbs** Arrest Distance **54" or Less**

WARNING

Read all warnings and instructions in User Manual prior to use. If missing, contact Werner Co. for a replacement. Inspect product prior to each use, then at least monthly by a competent person who is not the user. Verify product is suitable for fall protection system chosen before beginning work. Ensure anchorage strength is 5000 lbs. (22.2kN) or more, or certified by a Qualified Person. Before each use withdraw some cable and tug sharply to ensure pawls engage properly. User repairs or alterations are **NOT** permitted. Avoid exposure to sharp edges, chemicals, or environmental hazards that could weaken the materials. Only back harness D-ring (A) to be used for fall arrest. Verify connectors are compatible (See User Manual). OSHA and local regulations require workers receive training in the use of fall protection equipment, and that a plan for rescue be in place.



Work directly below, never above, the device to prevent swing falls, and check for unobstructed clearance beneath. Maintain retracts, never release. Do not permit cable to become slack, and ensure it retracts fully into device.

**FAILURE TO READ AND HEED ALL WARNINGS
COULD RESULT IN INJURY OR DEATH!**



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AutoCoil 2™

P/N105244-01 Rev A 6/12
Standard Code Z359.1-07
OSHA 1910 & 1926

Material-Diameter/
Width & Thickness
Polyester Webbing
1" Wide x .07" Thick

YEAR 1 1 2 3 4 5 6 7 8 9 10 11 12
YEAR 2 1 2 3 4 5 6 7 8 9 10 11 12

SELF RETRACTING LIFELINE

Model: **R230011**
Lifeline Length: **11 feet**
Serial Number: **1234567**
Manufactured: **09/2012**

YEAR 3 1 2 3 4 5 6 7 8 9 10 11 12
YEAR 4 1 2 3 4 5 6 7 8 9 10 11 12

Inspection Log 1 2 3 4 5 6 7 8 9 10 11 12 YEAR 5

Maximum User Weight **310 lbs**

Maximum Arrest Force **1350 lbs or Less** Arrest Distance **42" or Less**



WARNING

Read all warnings and instructions in User Manual prior to use. If missing, contact Werner Co. for a replacement. Inspect product prior to each use, then at least monthly by a competent person who is not the user. Verify product is suitable for fall protection system chosen before beginning work. Ensure anchorage strength is 5000 lbs. (22.2kN) or more, or certified by a Qualified Person. Before each use withdraw some cable and tug sharply to ensure pawls engage properly. User repairs or alterations are **NOT** permitted. Avoid exposure to sharp edges, chemicals, or environmental hazards that could weaken the materials. Only back harness D-ring (A) to be used for fall arrest. Verify connectors are compatible (See User Manual). OSHA and local regulations require workers receive training in the use of fall protection equipment, and that a plan for rescue be in place.

Work directly below, never above, the device to prevent swing falls, and check for unobstructed clearance beneath. Maintain tension as cable retracts, never release. Do not permit cable to become slack, and ensure it retracts fully into device.



**FAILURE TO READ AND HEED ALL WARNINGS
COULD RESULT IN INJURY OR DEATH!**

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SELF-RETRACTING LIFELINES

USER INSTRUCTIONS

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AutoCoil 2™

Standard Code Z359.1-07
OSHA 1910 & 1926

Material-Diameter/
Width & Thickness
Polyester Webbing
1" Wide x .07" Thick

SELF RETRACTING LIFELINE

Model: **R231007**
Lifeline Length: **7 feet**
Serial Number: **1234567**
Manufactured: **09/2012**

Maximum Arrest Force **1350 lbs or Less**
Maximum User Weight **310 lbs**
Arrest Distance **42" or Less**



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WARNING

Read all warnings and instructions in User Manual prior to use. If missing, contact Werner Co. for a replacement. Inspect product prior to each use, then at least monthly by a competent person who is not the user. Verify product is suitable for fall protection system chosen before beginning work. Ensure anchorage strength is 5000 lbs. (22.2kN) or more, or certified by a Qualified Person. Before each use withdraw some cable from each side of the unit and tug sharply to ensure pawls engage properly. User repairs or alterations are **NOT** permitted. Avoid exposure to sharp edges, chemicals, or environmental hazards that could weaken the materials. Only back harness D-ring (A) to be used for fall arrest. Verify connectors are compatible (See User Manual).

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WERNER

WARNING

OSHA and local regulations require workers receive training in the use of fall protection equipment, and that a plan for rescue be in place.

Work directly below, never above, the device to prevent swing falls, and check for unobstructed clearance beneath. Maintain tension as cable retracts, never release. Do not permit cable to become slack, and ensure it retracts fully into device.

**FAILURE TO READ AND HEED ALL WARNINGS
COULD RESULT IN INJURY OR DEATH!**

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P/N105251-02 Rev A 6/12



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SELF RETRACTING LIFELINE

Inspection Log

	1	2	3	4	5	6	7	8	9	10	11	12
Year 1												
Year 2												
Year 3												
Year 4												
Year 5												

P/N105250-02 Rev A 6/12
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WERNER

WERNER

AutoCoil 2™

P/N105244-01 Rev A 6/12
Standard Code Z359.1-07
OSHA 1910 & 1926

Material-Diameter/
Width & Thickness
Polyester Webbing
1" Wide x .07" Thick

SELF RETRACTING LIFELINE

Model: **R230007**
Lifeline Length: **7 feet**
Serial Number: **1234567**
Manufactured: **09/2012**

YEAR 1 1 2 3 4 5 6 7 8 9 10 11 12
YEAR 2 1 2 3 4 5 6 7 8 9 10 11 12

YEAR 3 1 2 3 4 5 6 7 8 9 10 11 12
YEAR 4 1 2 3 4 5 6 7 8 9 10 11 12

Inspection Log 1 2 3 4 5 6 7 8 9 10 11 12 YEAR 5

Maximum User Weight **310 lbs**
Maximum Arrest Force Arrest Distance
1350 lbs or Less 42" or Less



WARNING

Read all warnings and instructions in User Manual prior to use. If missing, contact Werner Co. for a replacement. Inspect product prior to each use, then at least monthly by a competent person who is not the user. Verify product is suitable for fall protection system chosen before beginning work. Ensure anchorage strength is 5000 lbs. (22.2kN) or more, or certified by a Qualified Person. Before each use withdraw some cable and tug sharply to ensure pawls engage properly. User repairs or alterations are **NOT** permitted. Avoid exposure to sharp edges, chemicals, or environmental hazards that could weaken the materials. Only back harness D-ring (A) to be used for fall arrest. Verify connectors are compatible (See User Manual). OSHA and local regulations require workers receive training in the use of fall protection equipment, and that a plan for rescue be in place.



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**FAILURE TO READ AND HEED ALL WARNINGS
COULD RESULT IN INJURY OR DEATH!**

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SELF-RETRACTING LIFELINES

USER INSTRUCTIONS

V. Equipment Record

PART NUMBER

PURCHASE DATE

SERIAL NUMBER

ASSIGNED TO

DATE
MANUFACTURED

SPECIFICATIONS

Werner Co. Self-Retracting Lifeline

Certified to meet ANSI Z359.1-2007 and OSHA 1910 and 1926 standards and regulations for the Self-Retracting Lifeline component of a complete personal fall arrest system.

Model, serial numbers, location and date of manufacture are on product label.

VI. Inspection Record

INSPECTION RECORD

DATE	INSPECTOR	PASS/FAIL

DATE	INSPECTOR	PASS/FAIL

ENGLISH



¡PRECAUCIÓN!

Si el uso de equipos de protección contra caídas es necesario, entonces el ambiente de trabajo es peligroso y potencialmente mortal. Los productos Werner Co. están diseñados para eliminar peligros tanto como sea posible, pero SÓLO si estos productos se utilizan correctamente. Utilice este equipo tal como fue diseñado para usarse, después de una capacitación apropiada, bajo la supervisión directa de una persona calificada, de acuerdo con las instrucciones suministradas, y de acuerdo con las regulaciones OSHA y las regulaciones de seguridad locales. El usuario DEBE leer y entender todas las precauciones e instrucciones. No tener en cuenta estas directrices podría resultar en lesiones o incluso la muerte. ¡TRABAJE DE MANERA SEGURA! ¡TRABAJE DE MANERA INTELIGENTE!

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CUERDAS SALVAVIDAS AUTO-RETRÁCTILES

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Advertencia:

Este producto es sólo una parte de un sistema personal de detención de caídas. Éste debe combinarse correctamente con otros componentes para conformar un sistema completo y funcional. El usuario debe entender la función de cada uno de estos componentes y seguir las instrucciones del fabricante para el uso de cada componente. El usuario debe recibir estas instrucciones, debe leerlas y seguirlas, y consultar a la persona calificada que supervisará su trabajo si tiene alguna pregunta acerca de cualquier parte de las instrucciones. El empleador debe proporcionar capacitación sobre el uso apropiado, inspección y mantenimiento de todos los componentes del sistema, y estas instrucciones pueden utilizarse como parte de esa capacitación. El equipo SÓLO debe utilizarse de acuerdo con estas instrucciones, ordenanzas y códigos locales, las normas OSHA y ANSI aplicables, y el plan de seguridad del empleador.

Este sistema de cuerda salvavidas auto-retráctil está diseñado para proporcionar una conexión absorbidora de energía de longitud variable desde un anclaje aprobado hasta el anillo en "D" dorsal (espalda) de un arnés de protección contra caídas aprobado. El uso de una cuerda salvavidas auto-retráctil es apropiado para realizar trabajos que requieren movimiento, especialmente al cambiar de niveles de altura.

SI USTED TIENE ALGUNA PREGUNTA ACERCA DE ALGO DE ESTAS INSTRUCCIONES, EL EQUIPO O EL USO APROPIADO DEL EQUIPO, COMUNÍQUESE CON WERNER CO. PARA OBTENER MÁS INFORMACIÓN.

I. Antes de utilizar la cuerda salvavidas auto-retráctil

Antes de utilizar este equipo, el usuario debe realizar ciertos pasos para garantizar que éste está en condiciones apropiadas y es seguro para su uso. Los usuarios deben leer y entender estas instrucciones. Es obligación del empleador garantizar que todos los usuarios hayan recibido capacitación sobre los procedimientos de trabajo seguros y también sobre el uso y limitaciones de los equipos de protección contra caídas. Todos los usuarios deben estar informados acerca de y cumplir todas las normas OSHA, ANSI y las normas locales o regionales relacionadas con los equipos de protección contra caídas y su uso.

a. Inspeccione

Todo el equipo debe ser examinado completamente, diariamente antes del uso, por parte del usuario; y periódicamente por parte de una persona calificada que no sea el usuario.

CUERDAS SALVAVIDAS AUTO-RETRÁCTILES

INSTRUCCIONES PARA EL USUARIO

Verifique la condición de cada componente. Si se encuentra cualquier daño o anomalía, el equipo debe retirarse del servicio. No se permiten modificaciones al equipo. Verifique que todos los componentes están presentes, intactos y sin daño, y funcionando correctamente.

1. Inspeccione la carcasa en busca de abolladuras, grietas, sujetadores flojos, o cualquier otra condición que pudiera afectar el uso y operación seguros de la unidad.
2. Abra y cierre varias veces el gancho de resorte para garantizar que los mecanismos están funcionando sin problemas, correctamente, y que el cierre del gancho de cierre resortado cierra completamente.
3. Colóquese guantes de cuero para protección y hale el cable, la cuerda o la correa tejida, completamente fuera de la unidad de cuerda salvavidas auto-retráctil mientras la desliza a través de la mano con guante. Examine cuidadosamente cada pulgada a medida que ésta se retrae, en busca de cortaduras, abrasiones, daño por sustancias químicas, corrosión, retorcimientos, o cualquier otro daño que pudiera debilitarla. Revise las abrazaderas en busca de agrietamiento, corrosión, o cualquier indicación de movimiento. Si se encuentra cualquier daño, el dispositivo debe retirarse inmediatamente del servicio para reparación.
4. Una vez que el dispositivo está montado en su posición de trabajo pero antes de conectarlo a éste, hale hacia afuera el cable para verificar que la cuerda tiene tensión adecuada y sale y se retrae sin problemas. Pruebe el mecanismo de freno suministrando al cable varios tirones bruscos para enganchar los trinquetes. El dispositivo debe trancarse todas las veces sin deslizamiento.

5. Revise el indicador de carga en busca de signos de activación. En los modelos con cuerda salvavidas de correa tejida, este signo es un patrón de costura cerca del gancho (vea la figura 1). En todos los demás modelos, el gancho de cierre resortado contiene un indicador de impacto rojo (vea la figura 2). Si el

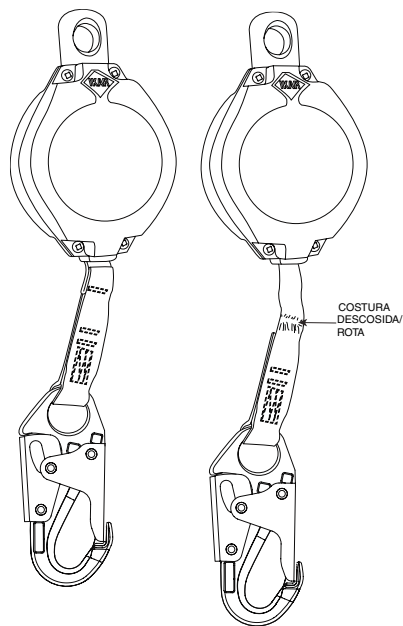


figura 24

dispositivo ha recibido carga de impacto por una caída, el indicador de impacto rojo del gancho de cierre resortado será visible y los productos deben sacarse del servicio.

6. Verifique que todas las etiquetas están intactas, en su sitio, y son legibles. Si se encuentran anomalías en alguna de estas áreas, entonces debe consultarse a la persona capacitada para que determine si ese elemento es seguro para continuar su uso o si debe retirarse del servicio.

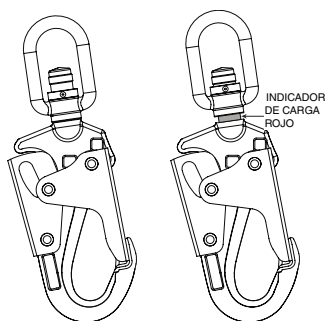
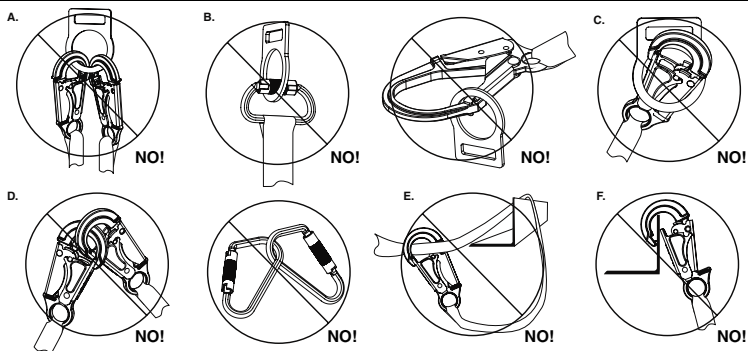


figura 2

CONEXIONES INAPROPIADAS



b. Compatibilidad

Verifique la compatibilidad de todos los subsistemas que se están utilizando. Los productos Werner Co. conectados con productos Werner Co. deben ser compatibles. La conexión con otros productos debe verificarse en cuanto a compatibilidad para garantizar que no haya desconexión accidental por carga lateral, rodaje, cierres no-estándares, etc.

c. Espacio libre

Verifique que existe una altura libre adecuada debajo del área de trabajo y que no hay objetos ni obstrucciones debajo del área de trabajo que el usuario pudiera contactar en caso de una caída.

CUERDAS SALVAVIDAS AUTO-RETRÁCTILES

INSTRUCCIONES PARA EL USUARIO

d. Plan de rescate

Si un trabajador cae y queda obligado a permanecer suspendido durante cualquier período de tiempo, podría producirse daño físico o incluso la muerte. Por este motivo, Werner Co., las regulaciones de OSHA, ANSI y la mayoría de las regulaciones locales exigen la existencia de un plan de rescate y los medios para ejecutar un plan de rescate, antes del uso de este equipo.

e. Capacitación

Las regulaciones OSHA, ANSI, y la mayoría de las regulaciones locales exigen que los trabajadores que utilicen este producto deben recibir capacitación adecuada antes del uso de este producto. Estas instrucciones y su contenido completo deben ser parte de esa capacitación.

II. Instalación y uso de las cuerdas salvavidas auto-retráctiles

a. Elija el anclaje adecuado

1. Verifique la resistencia del anclaje elegido, la cual debe ser de 5000 lbs (22.2 kN), o dos veces la carga de impacto esperada máxima, según lo certificado por una persona calificada.
2. Sólo un (1) trabajador debe estar conectado a un (1) punto de anclaje cualquiera.

b. Flojedad del cable/cuerda

Nunca permita que el cable de una unidad retráctil quede con flojedad. Si el cable no se está retrayendo apropiadamente dentro de la unidad, éste debe retirarse del servicio para inspección/repación.

c. Rebobinado del dispositivo

Siempre debe permitirse que el cable rebobine dentro del dispositivo de una manera lenta y controlada. NUNCA suelte el cable extendido de modo que el cable se rebobine de manera descontrolada. Hacerlo así podría dañar el mecanismo de retorno.

d. Tensión del resorte

Nunca deje el cable en una posición extendida durante un período de tiempo prolongado. Hacerlo así podría afectar la tensión del resorte de retorno. El uso de una cuerda de manejo para dispositivos montados de manera elevada y permanente eliminará la necesidad de dejar el cable extendido.



e. Mantenimiento

1. Limpie periódicamente el exterior de la carcasa y la cuerda salvavidas, con agua y un detergente suave. Enjuague, seque con toalla y seque al aire.
2. Guarde en un ambiente limpio y seco cuando la unidad no está en uso.
3. No se permite ninguna alteración ni modificación del dispositivo. No intente abrir el dispositivo. Éste no contiene piezas reparables por el usuario. Si se abre o modifica, el dispositivo debe retirarse del servicio y devolverse a Werner Co. para inspección.

f. Servicio de reparación

Cualquier servicio o reparación, tal como el reemplazo de la cuerda salvavidas, debe ser realizado por un centro de servicio autorizado. Werner Co. debe expedir un número de autorización y devolución. Por favor comuníquese directamente con Werner Co. para obtener más información acerca del servicio y reparaciones.

g. Sujeción de los modelos de un (1) tramo

1. Sujeción de la unidad de cuerda salvavidas auto-retráctil al anclaje
 - i. Conecte el cuerpo de la unidad retráctil al anclaje o al conector del anclaje utilizando la argolla rectangular metálica suministrada u otros herrajes compatibles. No utilice un conector que no cierra completamente al sujetarse a un anclaje o conector de anclaje.
 - ii. La argolla rectangular metálica suministrada con esta unidad, viene con una clavija, que cuando está instalada, proporciona un ojo cautivo para conexión con la cuerda salvavidas auto-retráctil. La instalación de la clavija es opcional. Para instalar la clavija, clave/martille la clavija dentro del orificio pre-taladrado en la barra trasera de la argolla rectangular metálica, utilizando un punzón. El lado abierto de la clavija debe quedar dirigido en dirección opuesta del material de cuerda o cuerda salvavidas. Continúe martillando la clavija a través de la barra trasera y dentro de la barra delantera hasta que la clavija quede al ras con el lado exterior de la barra trasera.
 - iii. Para conectar la argolla rectangular metálica al punto de conexión, gire el cierre en sentido horario y empuje hacia el centro de la argolla rectangular metálica. Al colocar alrededor de un punto de conexión, libere el cierre para cerrar y asegurar.
2. Sujeción de la unidad de cuerda salvavidas auto-retráctil al arnés
 - i. Conecte el gancho de cierre resortado del cable/correa tejida/cuerda de la unidad auto-retráctil sólo a un anillo en "D" dorsal (espalda) del arnés del usuario.

CUERDAS SALVAVIDAS AUTO-RETRÁCTILES

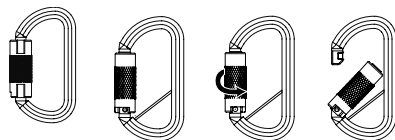
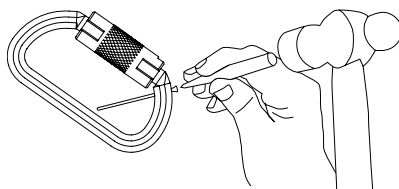
INSTRUCCIONES PARA EL USUARIO

h. Sujeción de los modelos de dos (2) tramos

1. Sujeción de la unidad de cuerda salvavidas auto-retráctil al arnés

- i. Conecte el cuerpo de la unidad retráctil al anillo en "D" trasero del arnés utilizando la argolla rectangular metálica suministrada u otros herrajes compatibles.
- ii. La argolla rectangular metálica suministrada con esta unidad, viene con una clavija, que cuando está instalada, proporciona un ojo cautivo para conexión con la cuerda salvavidas auto-retráctil. La instalación de la clavija es opcional. Para instalar la clavija, clave/martille la clavija dentro del orificio pre-taladrado en la barra trasera de la argolla rectangular metálica, utilizando un punzón. El lado abierto de la clavija debe quedar dirigido en dirección opuesta del material de cuerda o cuerda salvavidas. Continúe martillando la clavija a través de la barra trasera y dentro de la barra delantera hasta que la clavija quede al ras con el lado exterior de la barra trasera.

- iii. Para conectar la argolla rectangular metálica al arnés, gire el cierre en sentido horario y empuje hacia el centro de la argolla rectangular metálica. Al colocar alrededor de un punto de conexión, libere el cierre para cerrar y asegurar. La unidad de cuerda salvavidas auto-retráctil debe conectarse al anillo en "D" de espalda.



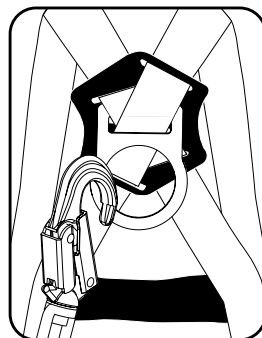
ASEGURADO

GIRE

DESASEGURADO

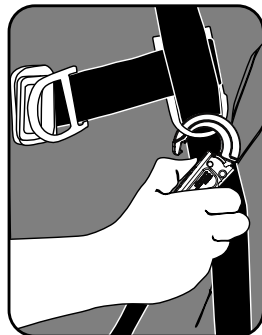
2. Sujeción al anclaje y uso

- i. Conecte uno de los extremos libres a un anclaje o conector de anclaje verificando que la conexión sea compatible. Con un tramo de la cuerda salvavidas auto-retráctil todavía conectado, el usuario puede moverse hacia un nuevo lugar para conectar el segundo tramo de la cuerda salvavidas auto-retráctil a un anclaje diferente y luego desconectar el primer tramo.



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- ii. Cuando no esté en uso, el tramo de la cuerda salvavidas auto-retráctil debe “estacionarse” en el guarda de la cuerda de pecho del usuario, nunca en un componente fijo permanente del arnés (anillo en “D” de cadera, anillo en “D” de pecho, etc.).



III. Tenga en cuenta las advertencias, restricciones y precauciones

a. Anclajes adecuados

OSHA exige resistencias de anclaje de 5000 lbs (22.2 kN), o dos veces la carga esperada máxima, según lo certificado por una persona calificada. El uso de algún anclaje que tenga una resistencia inadecuada podría resultar en lesiones o la muerte.

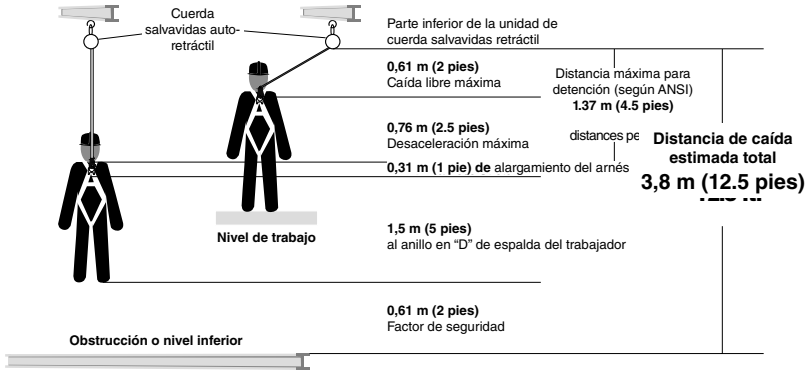
b. Distancia de caída

Aún cuando este equipo esté en perfectas condiciones de funcionamiento podría ocurrir contacto con un nivel inferior si hay algún objeto en la trayectoria de la caída o si es inadecuada la altura del anclaje que se está utilizando. La distancia de caída puede variar de acuerdo con el subsistema conectivo utilizado. El siguiente diagrama indica los cálculos de espacio libre típico para cuerdas salvavidas auto-retráctiles. Aunque éste muestra una situación típica, la persona competente/autorizada en sitio debe tomar esta decisión para cada situación de trabajo dependiendo de las condiciones específicas del sitio.

CUERDAS SALVAVIDAS AUTO-RETRÁCTILES

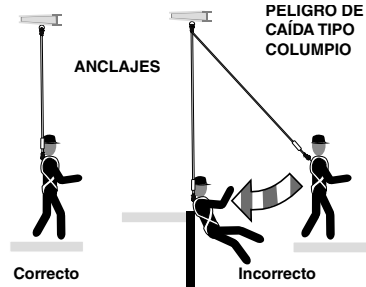
INSTRUCCIONES PARA EL USUARIO

Distancia de caída para cuerda salvavidas auto-retráctil



c. Peligro de caída tipo columpio

Posicione el trabajador debajo del anclaje de modo que si ocurre una caída, el trabajador no se columpiará hacia un objeto debajo de la superficie de trabajo.



d. Capacidad nominal

La capacidad de uso es 310 lbs (141kg) máximo para el peso combinado de un trabajador y todas las herramientas cuando hacen parte de un sistema completo de protección contra caídas. **NO EXCEDA ESTE PESO.**

e. Peligros ambientales

Este equipo sólo debe utilizarse bajo la supervisión directa de una persona calificada que pueda identificar los peligros que deben evitarse, incluyendo la electricidad y productos químicos, maquinaria y otros objetos en movimiento, bordes filosos, estructuras o anclajes dañados, o cualquier otro elemento en el sitio de trabajo que pudiera dañar este equipo o evitar su funcionamiento según lo previsto.



f. Componentes/Subsistemas

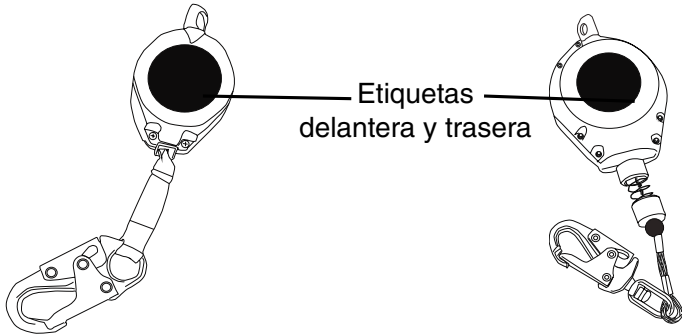
Antes del primer uso, una persona calificada debe inspeccionar todos los componentes y garantizar que los subsistemas son compatibles y que funcionarán correctamente en combinación con un sistema personal completo de protección contra caídas. Consulte la información en estas instrucciones, y si se requiere cualquier información adicional, comuníquese directamente con Werner Co.


IV. Etiquetas/Identificación/Registros de inspección

- a.** Todos los productos deben ser inspeccionados completamente por el usuario antes de cada uso. Una persona calificada, diferente al usuario, debe realizar inspecciones adicionales en intervalos no inferiores a un (1) mes. Ese intervalo debe acortarse cada vez que el producto se utiliza en un ambiente agresivo o se expone a condiciones tales como productos químicos, abrasión, calor o cualquier otro factor que pudiera afectar la resistencia de cualquiera de los materiales o componentes.
- b.** Las etiquetas del producto proporcionan una tabla de inspección para que una persona calificada registre estas inspecciones. Utilice un marcador permanente para registrar estos datos.
- c.** Este manual siempre debe acompañar el producto o estar en los archivos del empleador para consultarlo cuando se requiera. Registre los detalles de identificación para el anclaje y registre las inspecciones en el registro de inspección mostrado en la página 17. Es importante mantener este registro con información completa y actualizada, y ponerlo a disposición según se necesite.

CUERDAS SALVAVIDAS AUTO-RETRÁCTILES

INSTRUCCIONES PARA EL USUARIO





AutoCoil 2™

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 P/N105246-01 Rev A 6/12

SELF RETRACTING LIFELINE

Model: R210020
 Lifeline Length: 20 feet
 Serial Number: 1234567
 Manufactured: 09/2012


Standard Code Z359.1-07
 OSHA 1910 & 1926

YEAR 1 1 2 3 4 5 6 7 8 9 10 11 12
 YEAR 2 1 2 3 4 5 6 7 8 9 10 11 12

Inspection Log 1 2 3 4 5 6 7 8 9 10 11 12 YEAR 5

YEAR 3 1 2 3 4 5 6 7 8 9 10 11 12
 YEAR 4 1 2 3 4 5 6 7 8 9 10 11 12

Maximum Arrest Force 1350 lbs or Less
 Maximum User Weight 310 lbs
 Arrest Distance 54" or Less




Material-Diameter/ Width & Thickness
 Galvanized Steel Wire Rope
 .1875" Diameter


WARNING

Read all warnings and instructions in User Manual prior to use. If missing, contact Werner Co. for a replacement. Inspect product prior to each use, then at least monthly by a competent person who is not the user. Verify product is suitable for fall protection system chosen before beginning work. Ensure anchorage strength is 5000 lbs. (22.2kN) or more, or certified by a Qualified Person. Before each use withdraw some cable and tug sharply to ensure pawls engage properly. User repairs or alterations are **NOT** permitted. Avoid exposure to sharp edges, chemicals, or environmental hazards that could weaken the materials. Only back harness D-ring (A) to be used for fall arrest. Verify connectors are compatible (See User Manual).

OSHA and local regulations require workers receive training in the use of fall protection equipment, and that a plan for rescue be in place.



Work directly below, never above, the device to prevent swing falls, and check for unobstructed clearance beneath. Maintain tension as cable retracts, never release. Do not permit cable to become slack, and ensure it retracts fully into device.



**FAILURE TO READ AND HEED ALL WARNINGS
 COULD RESULT IN INJURY OR DEATH!**

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YEAR 1 1 2 3 4 5 6 7 8 9 10 11 12
YEAR 2 1 2 3 4 5 6 7 8 9 10 11 12

SELF RETRACTING LIFELINE

Model: **R210030**
Lifeline Length: **30 feet**
Serial Number: **1234567**
Manufactured: **09/2012**

YEAR 3 1 2 3 4 5 6 7 8 9 10 11 12
YEAR 4 1 2 3 4 5 6 7 8 9 10 11 12

Standard Code Z355.1-07
OSHA 1910 & 1926

Inspection Log 1 2 3 4 5 6 7 8 9 10 11 12 YEAR 5

Maximum Arrest Force **1350 lbs or Less**
Maximum User Weight **310 lbs**
Arrest Distance **54" or Less**



Material-Diameter/ Width & Thickness
Galvanized Steel Wire Rope
.1875" Diameter

WARNING

Read all warnings and instructions in User Manual prior to use. If missing, contact Werner Co. for a replacement. Inspect product prior to each use, then at least monthly by a competent person who is not the user. Verify product is suitable for fall protection system chosen before beginning work. Ensure anchorage strength is 5000 lbs. (22.2kN) or more, or certified by a Qualified Person. Before each use withdraw some cable and tug sharply to ensure pawls engage properly. User repairs or alterations are **NOT** permitted. Avoid exposure to sharp edges, chemicals, or environmental hazards that could weaken the materials. Only back harness D-ring (A) to be used for fall arrest. Verify connectors are compatible (See User Manual).

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**FAILURE TO READ AND HEED ALL WARNINGS
COULD RESULT IN INJURY OR DEATH!**

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CUERDAS SALVAVIDAS AUTO-RETRÁCTILES

INSTRUCCIONES PARA EL USUARIO



	1	2	3	4	5	6	7	8	9	10	11	12
Year 1												
Year 2												
Year 3												
Year 4												
Year 5												

Inspection Log

SELF RETRACTING LIFELINE

Model: **R210060**
 Lifeline Length: **60 feet**
 Serial Number: **1234567**
 Manufactured: **09/2012**

AutoCoil 2™

Material-Diameter/
 Width & Thickness
Galvanized Steel
Wire Rope
.1875" Diameter

Standard Code
 Z359.1-07
 OSHA 1910 & 1926

Maximum Arrest Force **1350 lbs or Less** Maximum User Weight **310 lbs** Arrest Distance **54" or Less**

WARNING

Read all warnings and instructions in User Manual prior to use. If missing, contact Werner Co. for a replacement. Inspect product prior to each use, then at least monthly by a competent person who is not the user. Verify product is suitable for fall protection system chosen before beginning work. Ensure anchorage strength is 5000 lbs. (22.2kN) or more, or certified by a Qualified Person. Before each use withdraw some cable and tug sharply to ensure pawls engage properly. User repairs or alterations are **NOT** permitted. Avoid exposure to sharp edges, chemicals, or environmental hazards that could weaken the materials. Only back harness D-ring (A) to be used for fall arrest. Verify connectors are compatible (See User Manual). OSHA and local regulations require workers receive training in the use of fall protection equipment, and that a plan for rescue be in place.



Work directly below, never above, the device to prevent swing falls, and check for unobstructed clearance beneath. Maintain retracts, never release. Do not permit cable to become slack, and ensure it retracts fully into device.

**FAILURE TO READ AND HEED ALL WARNINGS
 COULD RESULT IN INJURY OR DEATH!**



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AutoCoil 2™

P/N105244-01 Rev A 6/12
Standard Code Z359.1-07
OSHA 1910 & 1926

Material-Diameter/
Width & Thickness
Polyester Webbing
1" Wide x .07" Thick

YEAR 1 1 2 3 4 5 6 7 8 9 10 11 12
YEAR 2 1 2 3 4 5 6 7 8 9 10 11 12

SELF RETRACTING LIFELINE

Model: **R230011**
Lifeline Length: **11 feet**
Serial Number: **1234567**
Manufactured: **09/2012**

YEAR 3 1 2 3 4 5 6 7 8 9 10 11 12
YEAR 4 1 2 3 4 5 6 7 8 9 10 11 12

Inspection Log 1 2 3 4 5 6 7 8 9 10 11 12 YEAR 5

Maximum User Weight **310 lbs**

Maximum Arrest Force **1350 lbs or Less** Arrest Distance **42" or Less**



WARNING

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Work directly below, never above, the device to prevent swing falls, and check for unobstructed clearance beneath. Maintain tension as cable retracts, never release. Do not permit cable to become slack, and ensure it retracts fully into device.

**FAILURE TO READ AND HEED ALL WARNINGS
COULD RESULT IN INJURY OR DEATH!**

P/N 105245-01 Rev A 6/12
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CUERDAS SALVAVIDAS AUTO-RETRÁCTILES

INSTRUCCIONES PARA EL USUARIO

WERNER

AutoCoil 2™ Material-Diameter/
Standard Code Z359.1-07 Width & Thickness
OSHA 1910 & 1926 Polyester Webbing
1" Wide x .07" Thick

SELF RETRACTING LIFELINE

Model: **R231007**
Lifeline Length: **7 feet**
Serial Number: **1234567**
Manufactured: **09/2012**

Maximum Arrest Force **1350 lbs or Less**
Maximum User Weight **310 lbs**
Arrest Distance **42" or Less**

IKAR

P/N105250-01 Rev A 6/12
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WERNER

WARNING

Read all warnings and instructions in User Manual prior to use. If missing, contact Werner Co. for a replacement. Inspect product prior to each use, then at least monthly by a competent person who is not the user. Verify product is suitable for fall protection system chosen before beginning work. Ensure anchorage strength is 5000 lbs. (22.2kN) or more, or certified by a Qualified Person. Before each use withdraw some cable from each side of the unit and tug sharply to ensure pawls engage properly. User repairs or alterations are **NOT** permitted. Avoid exposure to sharp edges, chemicals, or environmental hazards that could weaken the materials. Only back harness D-ring (A) to be used for fall arrest. Verify connectors are compatible (See User Manual).

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IKAR



WERNER

WARNING

OSHA and local regulations require workers receive training in the use of fall protection equipment, and that a plan for rescue be in place.

Work directly below, never above, the device to prevent swing falls, and check for unobstructed clearance beneath. Maintain tension as cable retracts, never release. Do not permit cable to become slack, and ensure it retracts fully into device.

**FAILURE TO READ AND HEED ALL WARNINGS
COULD RESULT IN INJURY OR DEATH!**

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IKAR

WERNER

AutoCoil 2™
SELF RETRACTING LIFELINE

Inspection Log

	1	2	3	4	5	6	7	8	9	10	11	12
Year 1												
Year 2												
Year 3												
Year 4												
Year 5												

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IKAR

ESPAÑOL



AutoCoil 2™

P/N105244-01 Rev A 6/12
Standard Code Z359.1-07
OSHA 1910 & 1926

Material-Diameter/
Width & Thickness
Polyester Webbing
1" Wide x .07" Thick

SELF RETRACTING LIFELINE

Model: **R230007**
Lifeline Length: **7 feet**
Serial Number: **1234567**
Manufactured: **09/2012**

YEAR 1 1 2 3 4 5 6 7 8 9 10 11 12
YEAR 2 1 2 3 4 5 6 7 8 9 10 11 12

YEAR 3 1 2 3 4 5 6 7 8 9 10 11 12
YEAR 4 1 2 3 4 5 6 7 8 9 10 11 12

Inspection Log 1 2 3 4 5 6 7 8 9 10 11 12 YEAR 5

Maximum User Weight **310 lbs**
Maximum Arrest Force **1350 lbs or Less** Arrest Distance **42" or Less**



WARNING

Read all warnings and instructions in User Manual prior to use. If missing, contact Werner Co. for a replacement. Inspect product prior to each use, then at least monthly by a competent person who is not the user. Verify product is suitable for fall protection system chosen before beginning work. Ensure anchorage strength is 5000 lbs. (22.2kN) or more, or certified by a Qualified Person. Before each use withdraw some cable and tug sharply to ensure pawls engage properly. User repairs or alterations are **NOT** permitted. Avoid exposure to sharp edges, chemicals, or environmental hazards that could weaken the materials. Only back harness D-ring (A) to be used for fall arrest. Verify connectors are compatible (See User Manual). OSHA and local regulations require workers receive training in the use of fall protection equipment, and that a plan for rescue be in place.



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NOTES

SELF-RETRACTING LIFELINES

USER INSTRUCTIONS

NOTES



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