



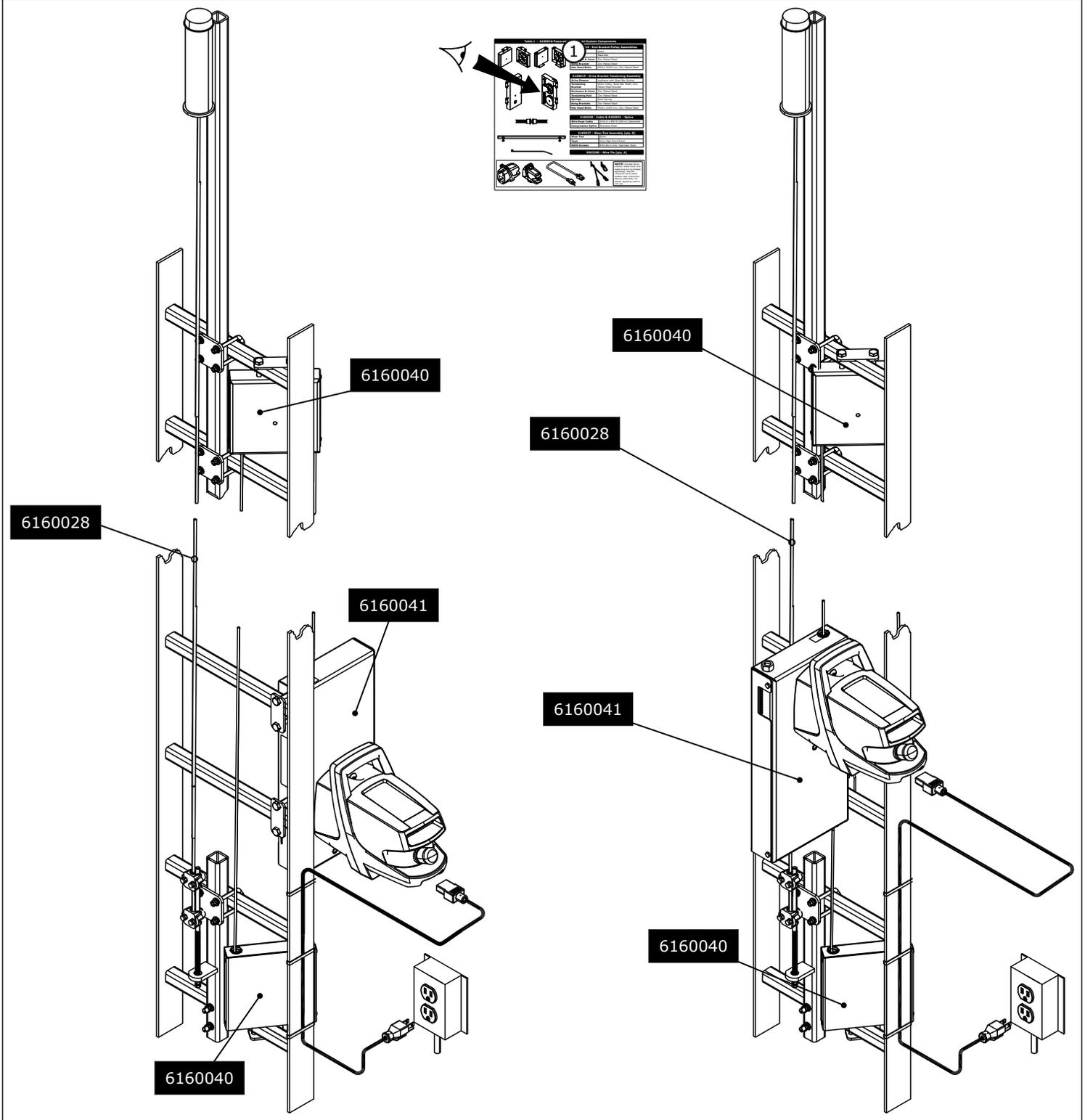
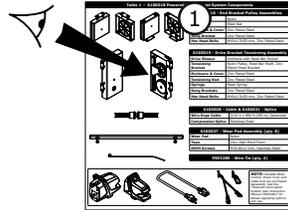
Fall Protection

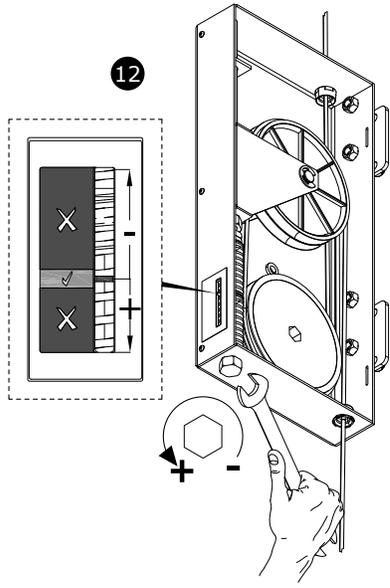
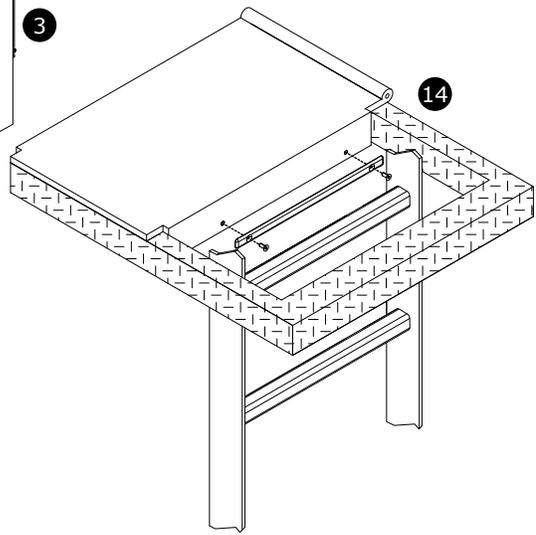
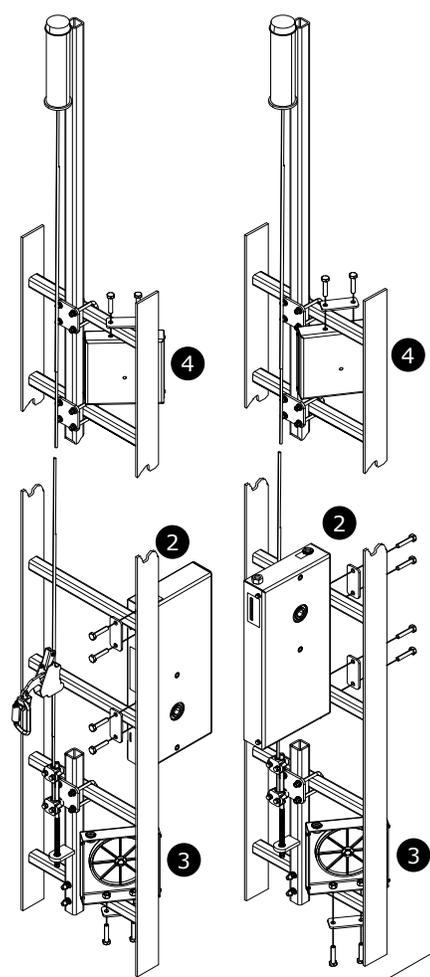
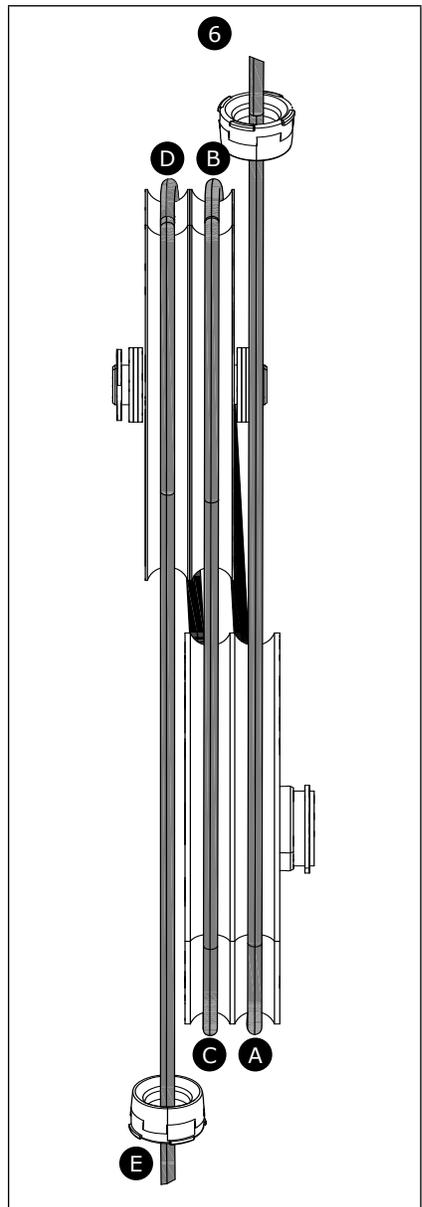
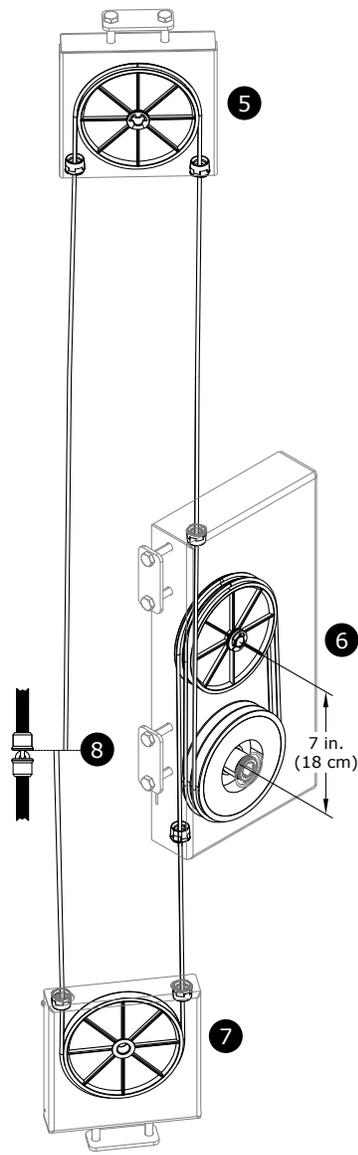
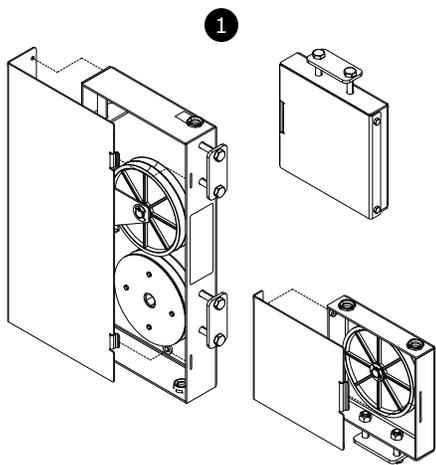
Machinery	2006/42/EC	
Electrical Safety	BS EN 60335-1:2002 + A15:2011	
CE	EMC	EN 61000-6-1:2007
		EN 61000-6-3:2007 + A1:2011
		EN 61000-3-3:2008
		EN 61000-3-2:2006 + A2:2009

Installation and Maintenance Manual

POWERED CLIMB ASSIST SYSTEM

6160039





WARNING: This product must be used in conjunction with a Fall Arrest System. The user must follow the manufacturer's instructions for each component of the system. These instructions must be provided to the user of this equipment. The user must read and understand these instructions before using this equipment. Manufacturer's instructions must be followed for proper use and maintenance of this equipment. Alterations or misuse of this product or failure to follow instructions may result in serious injury or death.

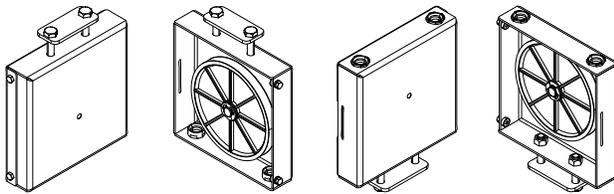
IMPORTANT: If you have questions on the use, care, or suitability of this equipment for your application, contact Capital Safety.

IMPORTANT: Before using this equipment, record the product identification information from the ID label in the "Inspection and Maintenance Log (Table 1)"

DESCRIPTION

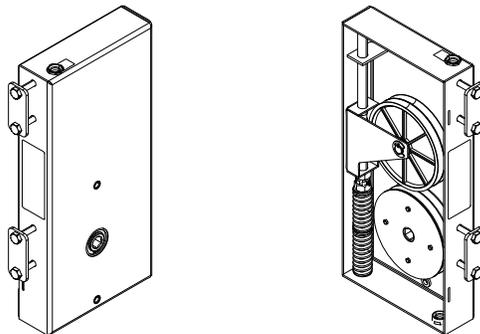
The front cover illustrates the Powered Climb Assist System (Harness) installed on a ladder with a Lad-Saf Ladder Safety System (ladder and Lad-Saf system sold separately). The Harness provides climbing assistance for individuals ascending and descending interior fixed ladders similar to those used in Wind Turbine Towers. Table 1 defines the components that comprise the Powered Climb Assist System. Top and bottom End Bracket Pulley assemblies attach to ladder rungs and support a Wire Rope Cable running up and down both sides of the ladder. A Drive Bracket allows cable tensioning and is socketed for insertion of the Portable Motor Control. The Motor Control drives the Pulleys and Wire Rope Cable in a continuous loop to provide assist force for climbing up and down the ladder. Internal adaptive controls allow the user to stop, ascend, and descend at will without operating a remote or switches.

Table 1 – 6160039 Powered Climb Assist System Components



6160040 - End Bracket Pulley Assemblies

Pulley	Nylon
Shaft	Steel Bar
Enclosure & Cover	Zinc Plated Steel
Rung Bracket	Zinc Plated Steel
Hex Head Bolts	M10x1.5x50 mm, Zinc Plated Steel



6160041 - Drive Bracket Tensioning Assembly

Drive Sheave	Urethane with Steel Bar Socket
Tensioning Bracket	Nylon Pulley, Steel Bar Shaft, Zinc Plated Steel Bracket
Enclosure & Cover	Zinc Plated Steel
Tensioning Rod	Zinc Plated Steel
Springs	Steel Spring
Rung Brackets	Zinc Plated Steel
Hex Head Bolts	M10x1.5x50 mm, Zinc Plated Steel



6160028 - Cable & 6100031 - Splice

Wire Rope Cable	3/16 in x 656 ft (200 m) Galvanized
Compression Splice	Stainless Steel

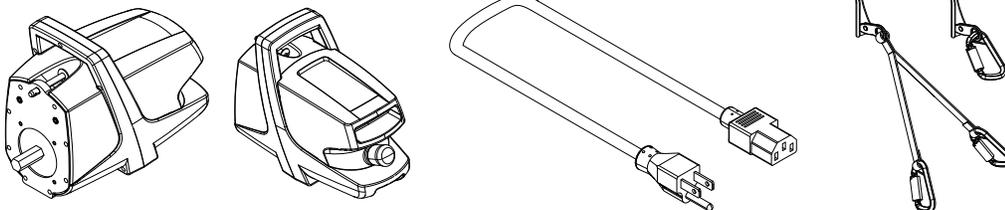


6160027 - Wear Pad Assembly (qty. 8)

Wear Pad	Nylon
Tape	Very High Bond Foam
HSFH Screws	M5X.8X12 mm, Stainless Steel



9503285 - Wire Tie (qty. 4)



NOTE: Portable Motor Control, Power Cord, and Cable Grip are purchased separately. See the "Powered Climb Assist System User Instruction Manual (5903807)" for details regarding options and use.

1.0 APPLICATIONS

- 1.1 PURPOSE:** The Powered Climb Assist System (PCAS) provides powered climb assistance while ascending or descending a ladder. The PCAS is intended for use on interior fixed ladders, such as those used in Wind Turbine Towers.

IMPORTANT: The PCAS should be used only as directed. It is not intended for lifting tools, equipment, spare parts, etc.

- 1.2 TRAINING:** It is the responsibility of the users and purchasers of this equipment to assure they are familiar with these instructions, trained in the correct care and use of, and are aware of the operating characteristics, application limitations, and consequences of improper use of this equipment.

CAUTION: Training must be conducted without exposing the user to a fall hazard. Training should be repeated on a periodic basis.

- 1.3 RESCUE PLAN:** When using this equipment and connecting subsystem(s), the employer must have a rescue plan and the means at hand to implement and communicate that plan to users, authorized persons, and rescuers.
- 1.4 INSPECTION FREQUENCY:** The Powered Climb Assist System shall be inspected by the user before each use and, additionally, by a competent person¹ other than the user at intervals of no more than one year². Inspection procedures are described in the "Inspection and Maintenance Log" (Table 2). Results of each Competent Person inspection should be recorded on copies of the "Inspection and Maintenance Log".

2.0 REQUIREMENTS

Consider the following requirements when planning and installing the Powered Climb Assist System:

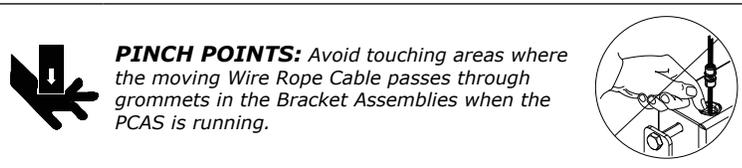
- 2.1 FALL ARREST SYSTEM:** The Powered Climb Assist System is not certified for Fall Arrest. It must be used in combination with a Lad-Saf™ Ladder Safety System or similar Fall Arrest System certified to the safety standards of the locale of installation.
- 2.2 LADDER STRUCTURE:** The ladder structure on which the Powered Climb Assist System is installed must meet the structural and anchorage requirements of the accompanying Fall Arrest System. See the Fall Arrest System manufacturer's instructions for details. The PCAS is NOT intended for use with portable ladders or ladders exposed to the environment. Ladders should be nearly vertical with a minimum slope of 75 degrees from horizontal for proper system operation.
- 2.3 CAPACITY:** The Powered Climb Assist System is designed for use by one person with a combined weight (clothing, tools, etc.) of no more than 310 lbs (141 kg). Only one person should be attached to the PCAS at any time.
- 2.4 ELECTRICAL:** The Plug-and-Play Motor Control Unit that powers the Powered Climb Assist System requires a 110-240 VAC, 50-60 Hz power source.
- 2.5 FULL BODY HARNESS:** A Full Body Harness must be used with the Powered Climb Assist System. The harness must have a frontal connection suitable for fall arrest when climbing a ladder. The fall arrest connection point must be above the user's center of gravity.

RECOMMENDED HARNESSES: Capital Safety recommends specific DBI-SALA Wind Energy Harnesses with integrated Climb Assist Lanyards for use with the 6160026 Cable Grip. Contact Capital Safety or see www.CapitalSafety.com for details.

OTHER HARNESSES: Other harnesses may be used with the 6160024 Cable Grip Lanyard Assembly, but do not offer the same level of comfort as the recommended DBI-SALA Wind Energy Harnesses.

WARNING: Body Belts are not authorized for use with the Powered Climb Assist System. Falls with a Body Belt may result in unintentional release or possible suffocation due to insufficient body support.

- 2.6 HAZARDS:** Use of this equipment in areas with hazards may require additional precautions to prevent injury to the user or damage to the equipment. Hazards may include, but are not limited to; heat, chemicals, corrosive environments, high voltage power lines, explosive or toxic gases, moving machinery, and sharp edges.



- 2.7 COMPONENT COMPATIBILITY:** Capital Safety equipment is designed for use with Capital Safety approved components and subsystems only. Substitutions or replacements made with non-approved components or subsystems may jeopardize compatibility of equipment and may effect the safety and reliability of the complete system.

IMPORTANT: Equipment substitutions require written consent from Capital Safety.

1 Competent Person: One who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.

2 Inspection Frequency: Extreme working conditions (harsh environments, prolonged use, etc.) may require increasing the frequency of competent person inspections.

3.0 SYSTEM INSTALLATION

IMPORTANT: Do not alter or intentionally misuse this equipment. Consult DBI-SALA when installing or using this equipment in combination with components or subsystems other than those described in this manual. Some subsystem and component combinations may interfere with the operation of this equipment.

3.1 PLAN your system prior to installation. Consider all factors that will affect your safety during installation and use of this equipment:

- **Requirements :** Consider all requirements defined in Section 2.
- **Fall Arrest System:** a Lad-Saf™ Ladder Safety System or similar Fall Arrest System should be installed on the ladder prior to installation of the Powered Climb Assist System. It must be used during any installation procedures which require climbing the ladder.
- **Tools:** The following tools are needed to install the Powered Climb Assist System:
 - Torque Wrench:** 17 mm
 - Combination Wrench/Ratchet:** 10 mm, 24 mm
 - Permanent Marker**
 - Wire Rope Cutter:** Part Numer 9600068 or equivalent
 - Swaging Tool:** Part Number 9600069 or equivalent
 - Swaging Dies:** Part Number 9600003

WIRE ROPE: The Wire Rope is very stiff and may spring out of the coil unexpectedly. Exercise caution when unrolling the cable. Wear appropriate safety gear (gloves, safety glasses, etc.) when working with the Wire Rope. Allow the spool to roll as the Wire Rope is uncoiled to avoid twisting. Inspect the cable for shipping damage prior to installation. Do not install damaged cable. Keep the cable free of grease during installation.

3.2 INSTALLATION PROCEDURE: Table 1 illustrates the components that comprise the Continuous Loop Powered Climb Assist System (PCAS). Figure 1 illustrates typical installation with the Drive Bracket Assembly mounted on the back of the ladder and the alternative method with the Drive Bracket Assembly mounted on the front of the ladder when space behind the ladder is limited. Procedures are as follows:

IMPORTANT: Exercise caution when installing the Powered Climb Assist System. Wear personal protective equipment, including safety glasses and steel-toe shoes. Use a Personal Fall Arrest System when exposed to a fall hazard. Be careful when installing the system near electrical power wires. The Wire Rope is conductive. Never connect to a partially installed Powered Climb Assist System.

1. **Remove Bracket Covers (Figure 1-1):** Loosen the cover screws and remove the covers from the Bottom Bracket and Drive Bracket assemblies. When removing the covers, slide the cover tab(s) out of the slot(s) in the enclosure. To facilitate transport up the ladder, do not remove the cover from the Top Bracket at this time.
2. **Install the Drive Bracket (Figure 1-2):** Secure the Drive Bracket Assembly to the desired side of the ladder (see 'Mounting Orientation') at chest height (typically 5th and 6th rungs from the bottom) with the Rung Clamps. Tighten the Rung Clamp Bolts equally. Torque each bolt to 10 ft-lbs (13.5 Nm), or tighten as far as possible without deforming the rungs¹.

IMPORTANT: When fully tightened, Rung Clamp Bolts must not interfere with travel of the Wire Rope Loop and Compression Splice through the Bracket Enclosure. If ladder rungs are less than 1 in. (25 mm) thick, shorter bolts must be used.

3. **Install the Bottom Bracket (Figure 1-3):** Loosely attach the Bottom Bracket Assembly to the bottom rung of the ladder with the Rung Clamp. Position the Bottom Bracket so the drive-side cable port aligns vertically with the bottom cable port on the Drive Bracket. Angle the Bottom Bracket so the other cable port is approximately centered on the ladder rungs. Hand tighten the bolts on the Rung Clamp to allow additional positioning of the Bottom Bracket Assembly once the Wire Rope ends are terminated.

NOTE: To minimize climbing, the remainder of the installation should be performed with two people at each end of the ladder: Two persons will climb up the ladder with the necessary tools and equipment to install the Top Bracket, route the Wire Rope over the Top Bracket Pulley; and adjust the Top Bracket for proper alignment with the Drive Bracket. The other two people will remain at the bottom of the ladder to route the Wire Rope through the Drive Bracket and Bottom Bracket, cut and terminate the Wire Rope Loop, adjust the Bottom Bracket for proper alignment with the Drive Bracket, and tension the Wire Rope Loop.

4. **Install the Top Bracket (Figure 1-4):** Loosely attach the Top Bracket Assembly to the top rung of the ladder with the Rung Clamp. Orient the Top Bracket similar to the Bottom Bracket. Hand tighten the bolts on the Rung Clamp to allow repositioning of the Top Bracket Assembly once the Wire Rope ends are terminated.
5. **Route the Wire Rope over the Top Bracket Pulley (Figure 1-5):** Remove the cover from the Top Bracket and route the Wire Rope through the cable port on the front (climbing) side of the ladder, over the groove in the Top Bracket Pulley, and out the other cable port. Feed the Wire Rope through the Top Bracket and down the back side of the ladder until it reaches the bottom of the ladder. (One person may need to climb down with the end of the Wire Rope.)
6. **Route the Wire Rope around the Drive Bracket Sheave and Tensioning Pulley (Figure 1-6):** Pass the Wire Rope through the top cable port on the Drive Bracket and then route the Wire Rope around the Sheave and Tensioning Pulley as follows:
 - A. Down and around the back groove on the Sheave;
 - B. Up and over the back groove on the Tensioning Pulley;
 - C. Down and around the front groove on the Sheave;
 - D. Up and over the front groove on Tensioning Pulley;
 - E. Out through the bottom Cable Port.

Feed the Wire Rope through the Drive Bracket until there is sufficient length to route the Wire Rope through the Bottom Bracket.

1 Ladder Rung Supports: Ladder Rung Supports can be used to strength hollow ladder rungs. Contact Capital Safety.

7. **Route the Wire Rope Under the Bottom Bracket Pulley (Figure 1-7):** Pass the Wire Rope through the drive-side cable port, down and around the groove in the Bottom Bracket Pulley, and out the opposite cable port. Pull a sufficient length of Wire Rope through the Bottom Bracket to allow cutting and termination of the Wire Rope Loop.
8. **Cut the Wire Rope to length (Figure 1-8):** Pull on both ends of the Wire Rope to remove slack and ensure the Wire Rope is properly seated in all Bracket Pulleys. Cut the excess off one end of the Wire Ropes so the two ends mate up when pulled together to form a continuous loop.



IMPORTANT: When cutting the Wire Rope, do not allow the ends to unravel or bend out of place.

9. **Splice the Wire Rope ends together to form a Continuous Loop:** Splice the Wire Rope ends together with the provided U-Loop Compression Splice. See "Installation Sheet 5903448" for details.
10. **Adjust the Bottom Bracket and Top Bracket for proper Wire Rope alignment:** Angle the Bottom Bracket and Top Bracket so the Wire Rope Loop travels freely through all cable ports without rubbing the grommets inserted in each port. The Wire Rope Loop should be approximately centered on the climbing side of the ladder.

WARNING: The Powered Climb Assist System should be positioned so it does not interfere with proper operation of the required Fall Arrest System and impede the Fall Arrest System's ability to arrest a fall.

11. **Tighten all Rung Clamps:** Once the Top Bracket and Bottom Bracket are properly positioned, tighten all Rung Clamps equally. Torque each bolt to 10 ft-lbs (13.5 Nm), or tighten as far as possible without deforming the rungs.
12. **Tension the Wire Rope Loop (Figure 1-12):** The Drive Bracket Assembly has a Tension Gauge on the side of the enclosure. Turn the Tensioning Bolt on the bottom of the enclosure until the Red Indication Tab is positioned in the green zone on the Tension Gauge: Turn the Tensioning Bolt counterclockwise to increase tension. Turn the Tensioning Bolt clockwise to decrease tension. Multiple turns may be required for visible movement of the Red Indication Tab.

NOTE: When tensioning a newly installed system, the Wire Rope will relax and stretch during the first few seconds of climbing. To avoid damaging the Drive Pulley, the system will likely require additional tensioning immediately after the first bit of climbing.

13. **Secure the Bracket Covers:** Place the covers back on the Top Bracket, Bottom Bracket, and Drive Bracket enclosures and tighten the cover screws.

WARNING: Exercise extreme caution to prevent dropping the Top Bracket cover during installation.

14. **Install Wear Guards (Figure 1-14):** Eight Wear Guard assemblies are included with the Powered Climb Assist System (see Table 1). Mount Wear Guards on surfaces on which the Wire Rope might rub during operation of the Powered Climb Assist System (e.g., ladder rungs, platform hatch doors, etc.). Mounting options are as follows:
 - **Mounting on Smooth Surfaces:** Clean the mounting surface thoroughly. Peel the backing off the adhesive strip on the back of the Wear Guard. Position the Wear Guard on the mounting surface and then press down firmly to adhere.
 - **Mounting on Rough or Uneven Surfaces:** Position the Wear Guard on the mounting surface. Using the Wear Guard as a template, drill two holes, approximately 1/2 in (12 mm) deep with the provided #19 Drill Bit. Thread the holes with the included M5 x .8 Tap. Secure the Wear Pad to the mounting surface with two Hex Socket Flat Head M5 Screws (also included).

NOTE: Ensure the Compression Splice does not make direct contact with sharp edges on a platform hatch door. Mount Wear Guards at the bottom edge of the hatch door flange to prevent contact between the Compression Splice and edge (see Figure 1-14).

15. **Secure the Power Cord:** Multiple Power Cord options are available for the Portable Motor Control to accommodate power source variations worldwide. Each installed Powered Climb Assist System should include an appropriate Power Cord that remains with the system. Position the Power Cord so it can be readily plugged into the Motor Control Unit and power receptacle and secure it in place with the included Cable Ties.

4.0 INSPECTION

- 4.1 **INSPECTION FREQUENCY:** The Powered Climb Assist System must be inspected at the intervals defined in Section 1. Inspection procedures are described in the "Inspection and Maintenance Log" (Table 2).
- 4.2 **DEFECTS:** If inspection reveals an unsafe or defective condition, replace or repair the affected component(s) prior to further use of the Powered Climb Assist System. Repairs must be performed by an Authorized Service Center. Contact Capital Safety.
- 4.3 **PRODUCT LIFE:** The functional life of the Powered Climb Assist System is determined by work conditions and maintenance. As long as the product passes inspection criteria, it may remain in service.

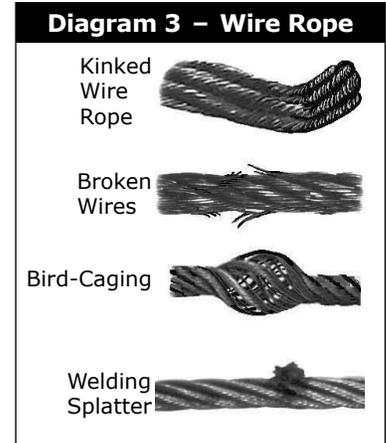
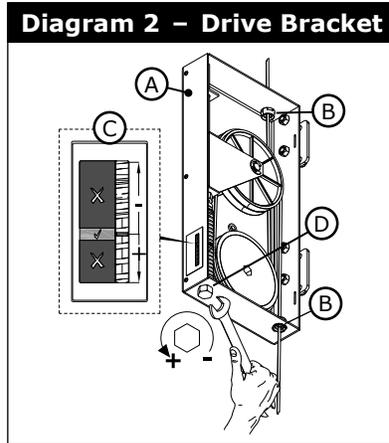
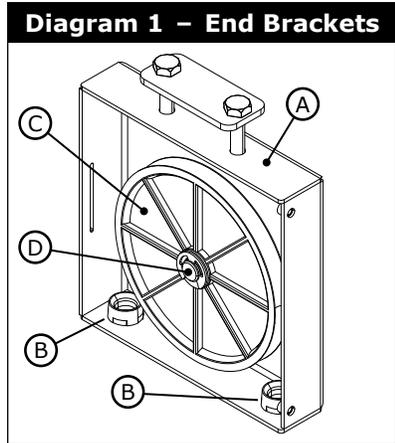
5.0 MAINTENANCE, SERVICING, STORAGE

NOTE: Only Capital Safety or parties authorized in writing may make repairs to this equipment.

- 5.1 **CLEANING:** If the Wire Rope Cable becomes soiled with oil, grease, paint, or other substances; clean the Wire Rope with appropriate cleaning solutions. Do not use acids or caustic chemicals that could damage the cable.
- 5.2 **AUTHORIZED SERVICE:** Additional maintenance and servicing procedures must be completed by an Authorized Service Center. Authorization must be in writing. Do not attempt to disassemble and repair components of the Powered Climb Assist System.
- 5.3 **STORAGE:** When not in use with the Powered Climb Assist System, store Motor Control Units and Cable Grips in a cool, dry, clean environment out of direct sunlight. Avoid areas where chemical vapors may exist. Thoroughly inspect components after extended storage.

Table 2 – Inspection and Maintenance Log

Serial Number(s):		Date Purchased:	
Model Number:		Date of First Use:	
Inspection Date:		Inspected By:	
Component:	Inspection: (See Section 1 for <i>Inspection Frequency</i>)	User	Competent Person
End Pulley Bracket Assemblies (Diagram 1)	Inspect the Enclosure (A) for dents, cracks, or corrosion. Inspect the Cable Port Grommets (B) for cracks or abrasions. Realign the Pulley Bracket if the Wire Rope Cable is rubbing against the Cable Port Grommet(s). Ensure the cover is secure on the Enclosure.	<input type="checkbox"/>	<input type="checkbox"/>
	Remove the Enclosure Cover and inspect the Pulley (C) and Shaft (D) for cracks, warping, abrasions, and other damage.		<input type="checkbox"/>
Drive Bracket Tensioning Pulley Assembly (Diagram 2)	Inspect the Bracket Enclosure (A) for dents, cracks, or corrosion. Inspect the Cable Port Grommets (B) for cracks or abrasions. Ensure the cover is secure on the Bracket Enclosure.	<input type="checkbox"/>	<input type="checkbox"/>
	Inspect the Tension Gauge (C) for proper Wire Rope Loop tension. The Red Indicator Tab should be positioned in the Green (✓) zone on the Tension Gauge. Adjust tension by turning the Tensioning Bolt (D) counterclockwise to increase tension or clockwise to decrease tension.	<input type="checkbox"/>	<input type="checkbox"/>
	Remove the Enclosure Cover and inspect internal components for cracks, warping, abrasions, and other damage.		<input type="checkbox"/>
	Ensure all external and internal labels are present and fully legible. See the back of this manual for required labels and their locations.		<input type="checkbox"/>
Wire Rope Cable Loop (Diagram 3)	Inspect the entire Wire Rope Loop for cuts, kinks, broken wires, bird-caging, welding splatter, corrosion, chemical contact areas, or severely abraded areas. Replace the wire rope assembly if there are six or more randomly distributed broken wires in one lay, or three or more broken wires in one strand in one lay. A "lay" of wire rope is the length of wire rope it takes for a strand (the larger groups of wires) to complete one revolution or twist along the rope. Replace the wire rope assembly if there are any broken wires within 1 inch (25 mm) of the Compression Splice.	<input type="checkbox"/>	<input type="checkbox"/>
	Inspect the Compression Splice for dents, cracks, or corrosion. Inspect the connecting loops for wear on adjoining surfaces. Tug on Wire Rope ends to ensure they are securely crimped in the compression sleeves.	<input type="checkbox"/>	<input type="checkbox"/>
Wear Pads	Inspect Wear Pads for cracks, warping, abrasions, and other damage. Ensure Wear Pads are securely mounted to surfaces.	<input type="checkbox"/>	<input type="checkbox"/>



Corrective Action/Maintenance:	Approved By:
	Date:
Corrective Action/Maintenance:	Approved By:
	Date:
Corrective Action/Maintenance:	Approved By:
	Date:

Installation Sheet 5903448 - Wire Rope Loop Termination

Materials:

- ❑ 3/16 in Galvanized Wire Rope Cable - P/N 6160028 or equivalent (must be approved by Capital Safety)
- ❑ Wire Rope U-Loop Splice Compression Connector - P/N 9506922

Tools:

- ❑ Swage Die Set - P/N 9600003
- ❑ Compression Tool, 12 Ton, 1 inch Jaw - P/N 9600069 or equivalent that handles "U" Type Dies
- ❑ 28 inch Type ACSR Wire Rope & Cable Cutter, 1 inch Cable Diameter - P/N 9600068 or equivalent
- ❑ Permanent Marker

WARNING: Termination of the Wire Rope Ends requires careful attention to detail. Improper termination can result in serious injury or death.

1. Install Die Halves in the Compression Tool per the manufacturer's operating instructions. Make sure Die Halves are oriented in the Compression Tool Jaws so the impressions in the Die Halves are symmetrical with each other.
2. Carefully inspect the Compression Sleeve for defects. Ensure that the Wire Rope End will seat properly in the Compression Sleeve.
3. Carefully insert the Wire Rope End through the Compression Sleeve until the end aligns with the top of the flange on the Compression Sleeve. Mark the Wire Rope with a Permanent Marker where it exits the Compression Sleeve.



IMPORTANT: Do not allow the Wire Rope strands to unravel or bend out of place.

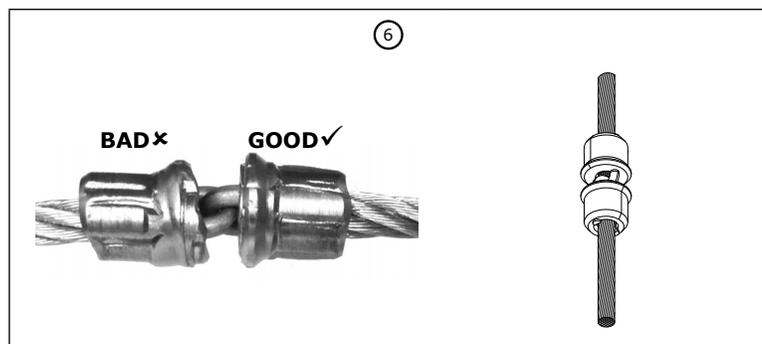
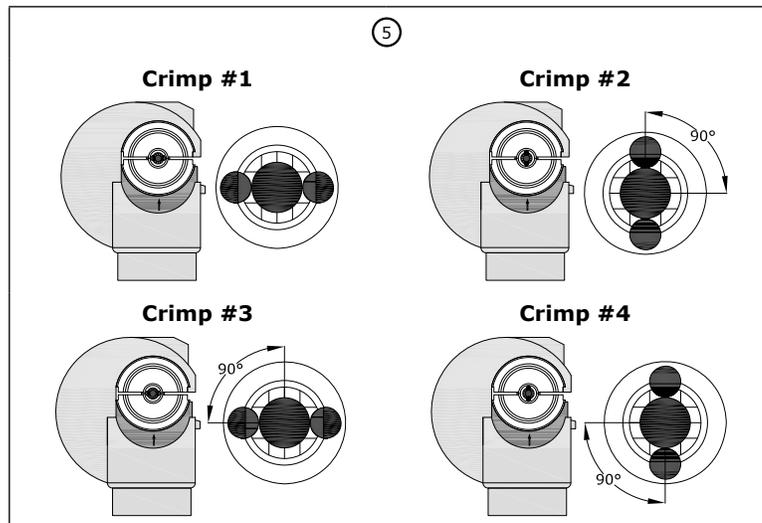
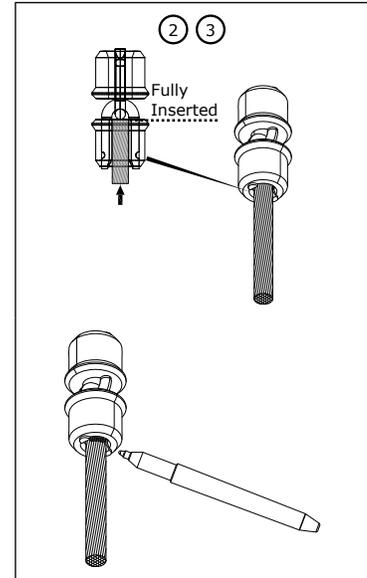
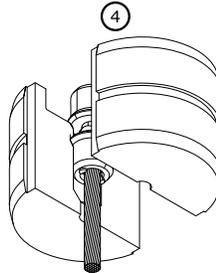
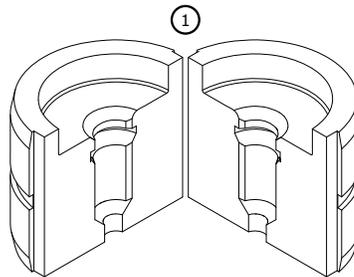
WARNING: The Wire Rope must be fully inserted to achieve the strongest possible connection. Improper installation can result in serious injury or death.

4. Position the Connector in one Die Half so Compression Sleeve rests entirely in the impression in the Die Half with the flange on the Compression Sleeve aligned in the horizontal groove in the Die Half. The empty Compression Sleeve should align in the recess in the end of the Die Half.
5. Crimp the Compression Sleeve onto the Wire Rope End per the manufacturer's instructions provided with the Compression Tool. **Fully crimp each Compression Sleeve four times**, rotating it 90 degrees between crimps. The fourth and final crimp should apply pressure directly on the Compression Sleeves two Wire Loops.

After crimping, inspect the mark made in Step 3 to verify that the Wire Rope did not slip out of the Compression Sleeve during crimping.

IMPORTANT: To ensure proper compression, one person should hold the Wire Rope in place while a second person operates the Compression Tool. Keep fingers clear of the Die Halves during crimping.

6. Repeat Steps 2 through 5 on the other end of the Wire Rope and remaining Compression Sleeve to complete the Wire Rope splice.



WARRANTY

WARRANTY FOR MOTOR CONTROL UNIT: *Note that the Motor Control Unit of the Powered Climb Assist System is subject to a limited warranty of three (3) years, whereas all other components of the System are subject to Capital Safety's standard limited lifetime warranty.*

POWERED CLIMB ASSIST SYSTEM: Warranty to End User - CAPITAL SAFETY warrants to the original end user ("End User") that its products are free from defects in materials and workmanship under normal use and service. This warranty extends for the lifetime of the product from the date the product is purchased by the End User, in new and unused condition, from a CAPITAL SAFETY authorized distributor. CAPITAL SAFETY'S entire liability to End User and End User's exclusive remedy under this warranty is limited to the repair or replacement in kind of any defective product within its lifetime (as CAPITAL SAFETY in its sole discretion determines and deems appropriate). No oral or written information or advice given by CAPITAL SAFETY, its distributors, directors, officers, agents or employees shall create any additional warranties or in any way increase the scope of this warranty. CAPITAL SAFETY will not accept liability for defects that are the result of product abuse, misuse, alteration or modification, or for defects that are due to a failure to install, maintain, or use the product in accordance with the manufacturer's instructions.

MOTOR CONTROL UNIT: Warranty to End User - CAPITAL SAFETY warrants to the original end user ("End User") that the Motor Control Unit (model # 6160051) for the DBI-SALA® Powered Climb Assist System is free from defects in materials and workmanship under normal use and service. This warranty extends for a period of three (3) years from the date the Motor Control Unit is purchased by the End User, in new and unused condition, from a CAPITAL SAFETY authorized distributor. CAPITAL SAFETY'S entire liability to End User and End User's exclusive remedy under this warranty is limited to the repair or replacement in kind of the defective Motor Control Unit (as CAPITAL SAFETY in its sole discretion determines and deems appropriate) within the three year warranty period. No oral or written information or advice given by CAPITAL SAFETY, its distributors, directors, officers, agents or employees shall create any additional warranties or in any way increase the scope of this warranty. CAPITAL SAFETY will not accept liability for defects that are the result of product abuse, misuse, alteration or modification, or for defects that are due to a failure to install, maintain, or use the product in accordance with the manufacturer's instructions.

CAPITAL SAFETY WARRANTIES APPLY ONLY TO THE END USER. THESE WARRANTIES ARE THE ONLY WARRANTIES APPLICABLE TO THIS PRODUCT AND ARE IN LIEU OF ALL OTHER WARRANTIES AND LIABILITIES, EXPRESSED OR IMPLIED. CAPITAL SAFETY EXPRESSLY EXCLUDES AND DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND SHALL NOT BE LIABLE FOR INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES OF ANY NATURE, INCLUDING WITHOUT LIMITATION, LOST PROFITS, REVENUES, OR PRODUCTIVITY, OR FOR BODILY INJURY OR DEATH OR LOSS OR DAMAGE TO PROPERTY, UNDER ANY THEORY OF LIABILITY, INCLUDING WITHOUT LIMITATION, CONTRACT, WARRANTY, STRICT LIABILITY, TORT (INCLUDING NEGLIGENCE) OR OTHER LEGAL OR EQUITABLE THEORY.

Declaration of Conformity

We, Capital Safety Group, 3833 Sala Way, Red Wing, MN 55066, USA, the manufacturer, declare that the new PPE item(s) described hereafter:

Product no./models: Loop PCA Climb Assist

Type: Climb Assist System
Serial no. / Lot no. : Serial Production

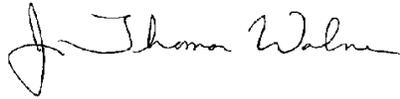
is in conformity with the provisions of the Council Directives:

The Machinery Directive 2006/42/EC
The EMC Directive 2004/108/EC

Technical File holder in EU:

SGS United Kingdom Limited
Bowburn South Industrial Estate,
Durham, Co Durham, DH6 5AD.

Authorized signatory:



Date: 17 January 2013

Place: Red Wing, Minnesota, USA

J Thomas Wolner
Vice President Engineering



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