



The Ultimate in Fall Protection

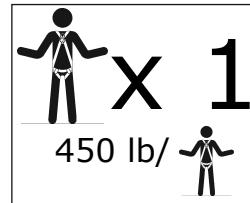
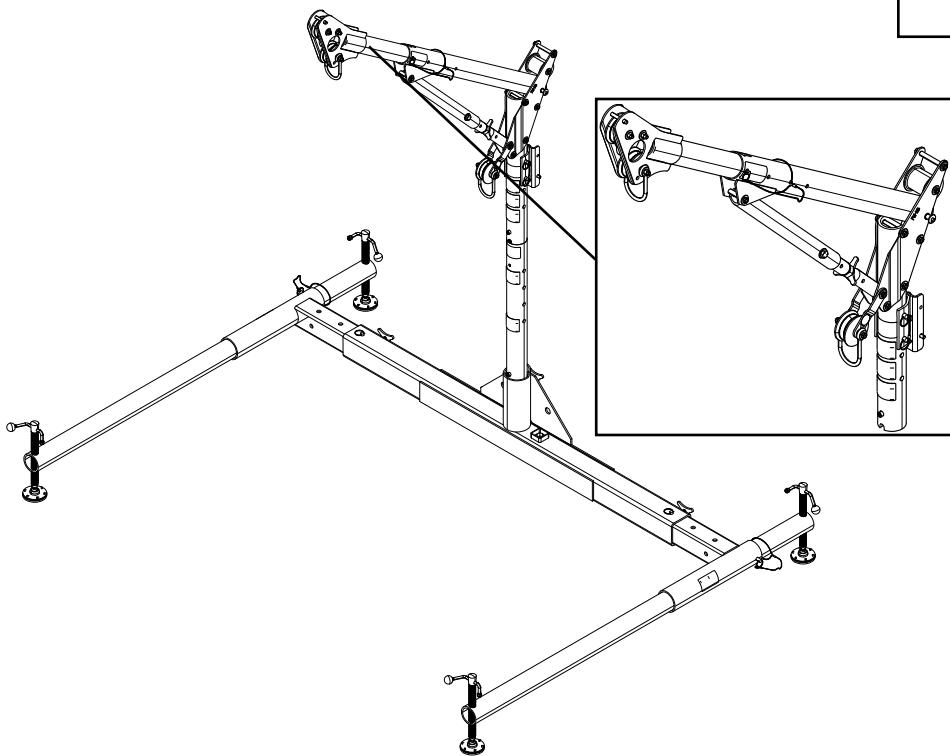
INSTRUCTION MANUAL

ADVANCED

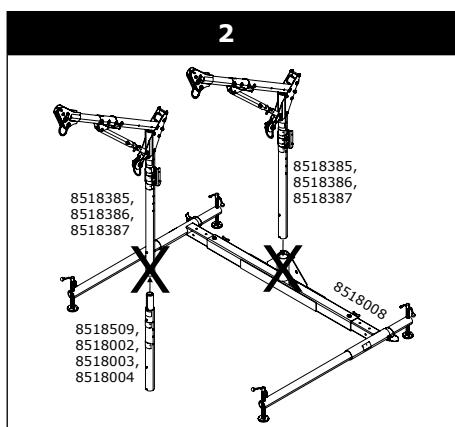
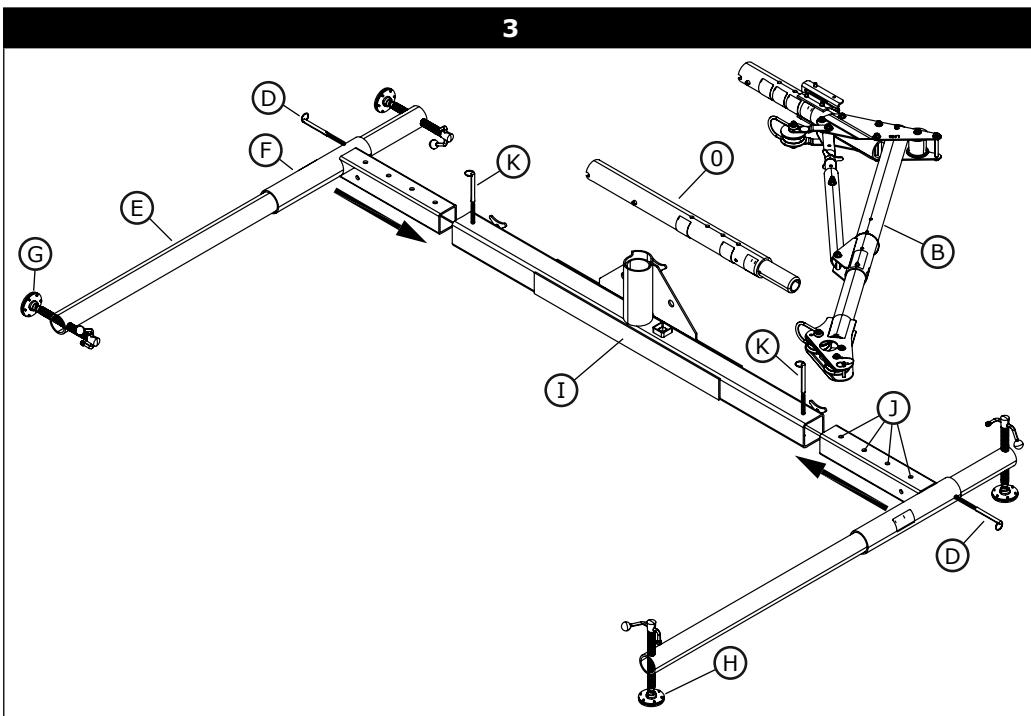
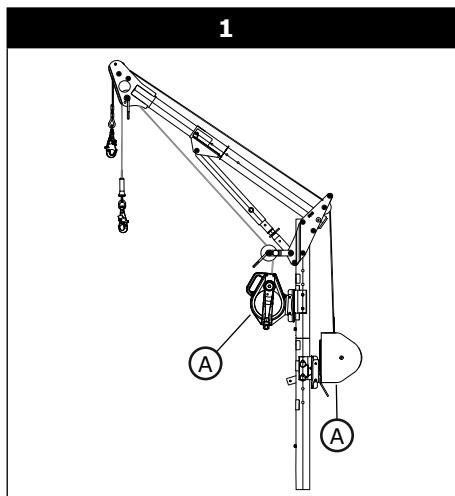
24" - 44" Adjustable Offset Davit Systems

Model Numbers:

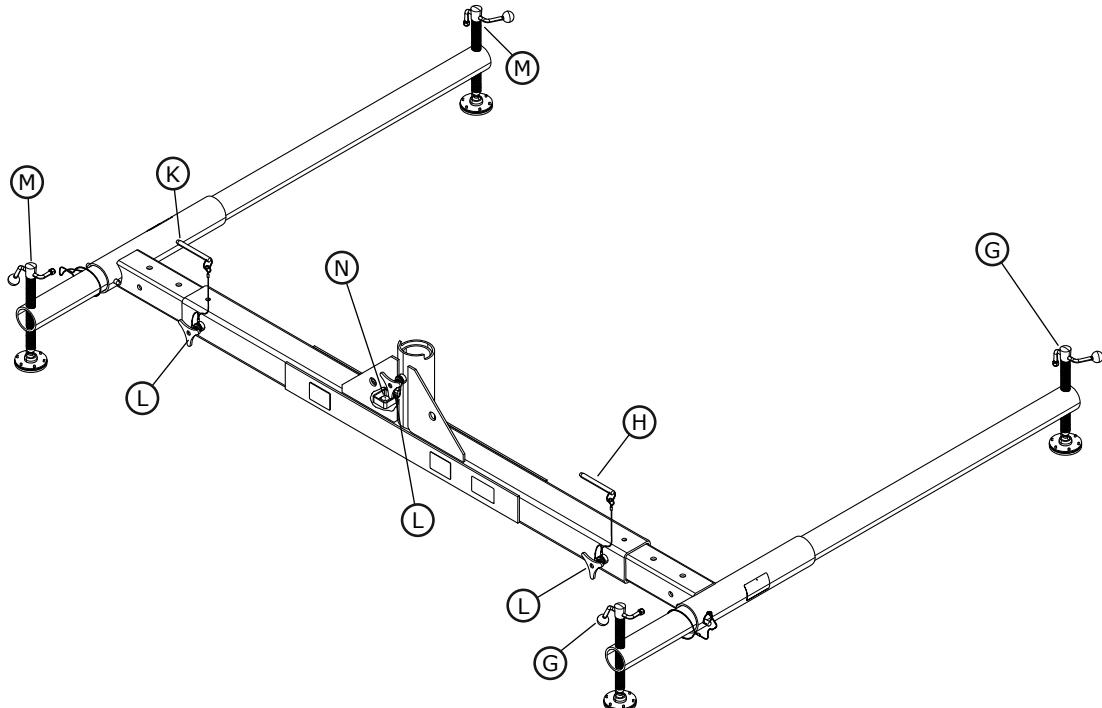
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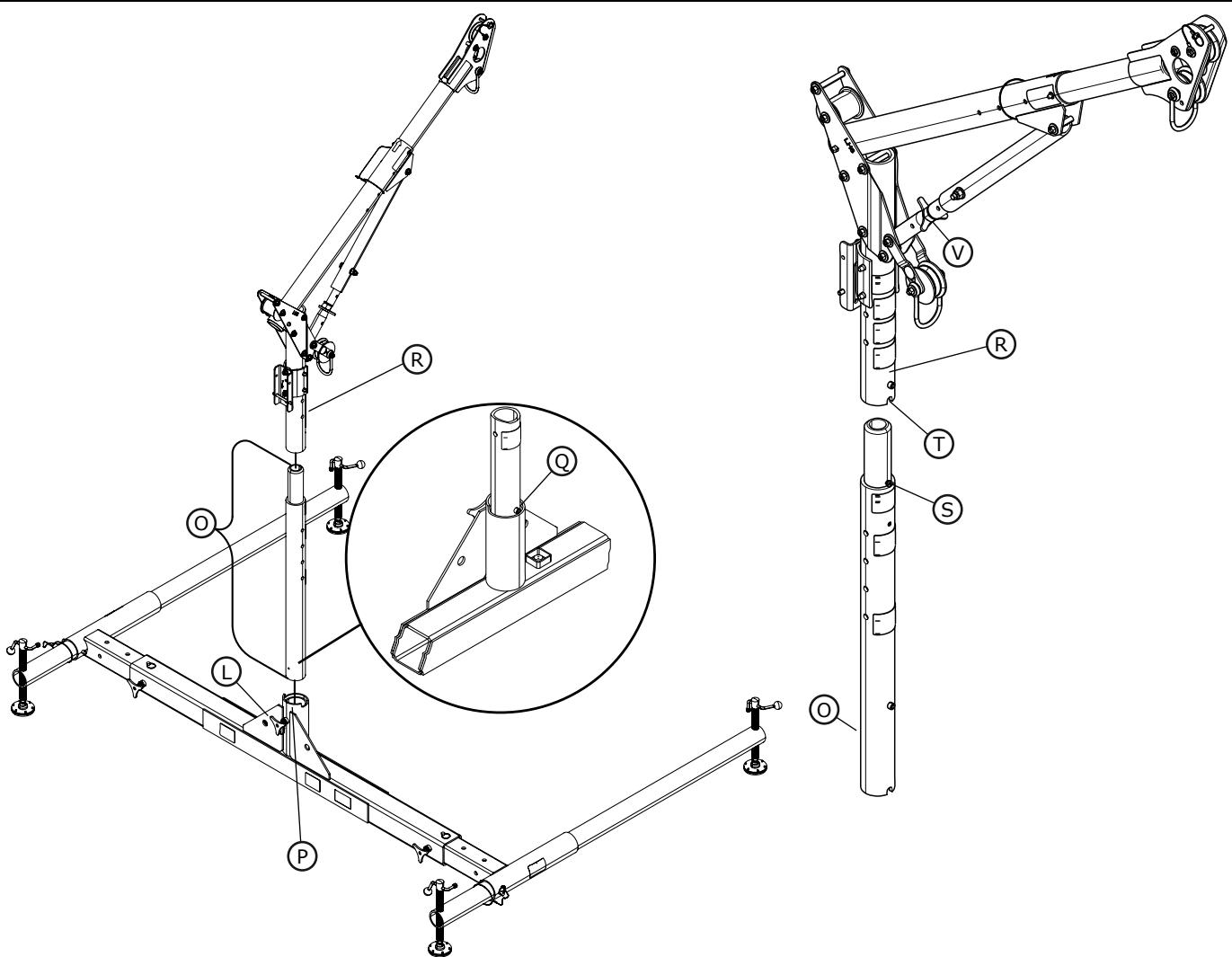
COMPONENT	MATERIAL
VARIABLE OFFSET MAST	ALUMINUM
LOWER MAST	ALUMINUM
HOIST BASE	ALUMINUM
HARDWARE	STEEL/STAINLESS STEEL
PULLEYS	NYLON

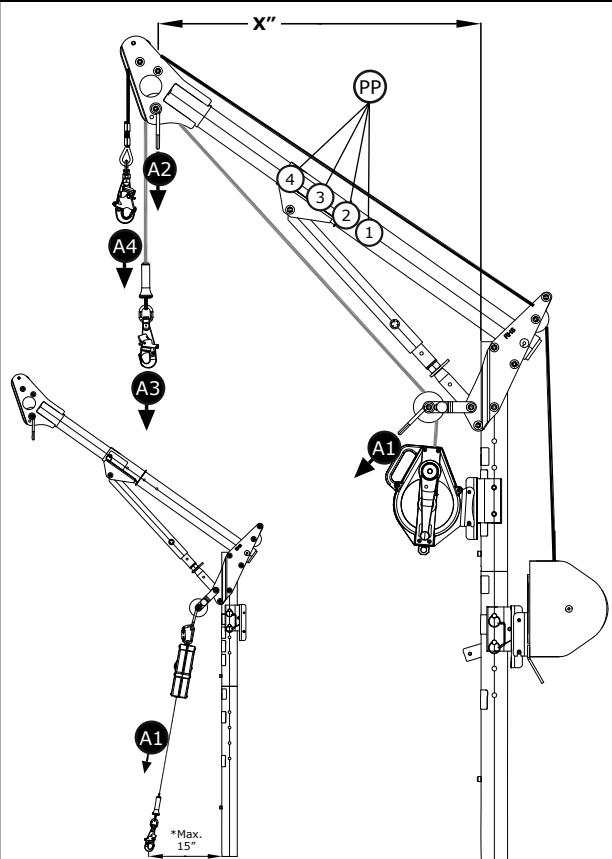


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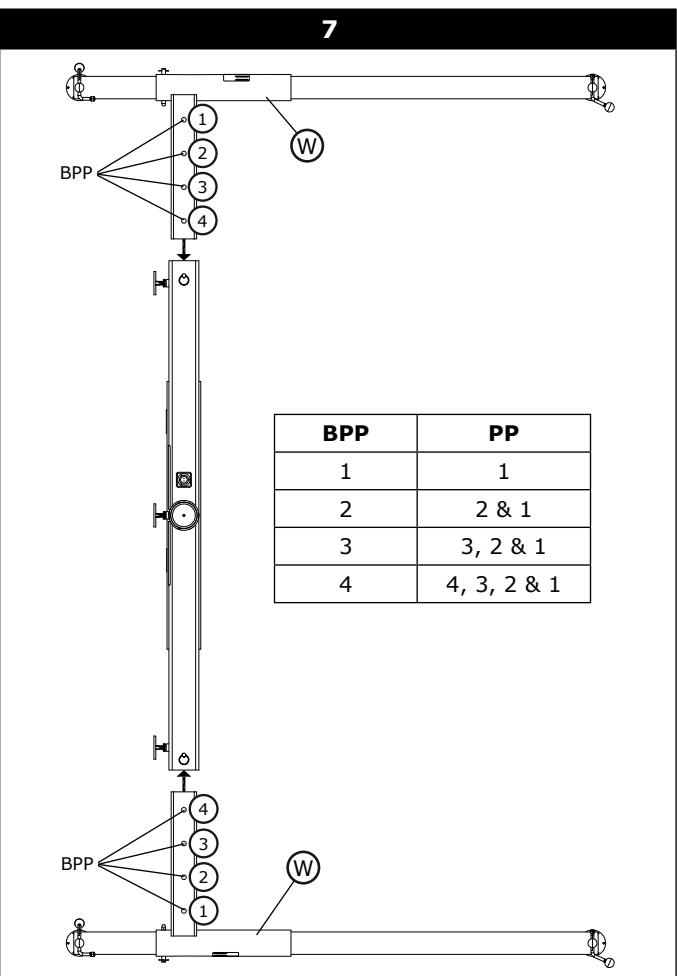




		X''			
		PP1	PP2	PP3	PP4
A2/A3	MAX	31.0" (78.7cm)	33.5" (85.0cm)	37.0" (94.0cm)	41.0" (104.1cm)
	MIN	24.0" (61.0cm)	26.0" (66.0cm)	29.0" (73.7cm)	32.0" (81.3cm)
A4	MAX	33.5" (85.0cm)	36.0" (91.4cm)	39.0" (99.0cm)	43.5" (110.5cm)
	MIN	25.0" (63.5cm)	27.0" (68.6cm)	30.0" (76.2cm)	33.0" (83.8cm)

	A#			
	PP1	PP2	PP3	PP4
A1	5,000 lbs* (22 kN)			
A2	1,800 lbs (8 kN)			
A3	1,800 lbs (8 kN)	1,800 lbs (8 kN)	1,800 lbs (8 kN)	<i>Do Not Use</i>
A4	1,800 lbs (8 kN)			

*5,000 lbs (22 kN) @ ≤ 15" (38 cm)



USE: The Adjustable/Variable Offset Hoist System is designed to attach to a person in order to raise or lower them to a work space. This instruction covers Advanced Variable Offset Masts with an offset range from 24 inches (61 cm) to 44 inches (112 cm). When using the 8518006 davit with a fixed base, a maximum of two mast extensions/lower masts may be combined, but must not exceed 78 inches (198.1 cm) in height. All one-piece davits (8518385, 8518386, 8518387) must not be used with mast extensions or the Portable Base (Figure 2). The Advanced Variable Offset Mast (Figure 1) may be equipped with front mounted and/or back mounted winches (A) and Self-Retracting Lifelines (SRLs). As illustrated in Figure 6, the Offset Mast is equipped with two pulleys (A3, A4) and a U-bracket (A2) which are rated as OSHA approved fall arrest anchor points when used with a device with a 900 lb average arresting force. There is also a mast mounted U-bracket (A1) which is rated as an ANSI approved anchor point when used within 15 inches of the base (see Figure 6).

IMPORTANT: When mounting Winches or SRLs on the front of the Davit, the lifeline must be routed through both bottom pulleys as shown in Figure 1.

BEFORE USE:

- All anchor points, or mounting/setup locations for permanent or portable systems must be approved by a qualified person.*
- Plan your work program before starting. Have the required people, equipment and procedures available to do the job.
- Always work in teams. One person being raised or lowered and the other pays out the line and reels it in.
- Wear appropriate protective gear, such as: a hard hat, safety glasses, protective shoes with slip resistant soles, heavy gloves, protective clothing and a face mask.
- All winch and SRL mounting parts and hardware must be supplied or approved by DBI-SALA.
- Securely anchor the winch before using.
- Use only an approved full body harness for the workers.
- Use only retractable lifelines or shock absorber with a maximum arrest force equal to or lower than the lowest rated component of your system.
- Retractable devices or shock absorbers must be installed and used in accordance with the manufacturer's instructions.
- Masts must be used with bases or sleeves approved for use with the applicable mast offset.
- Upper masts must be used with an appropriately sized lower mast.
- Where required by regulation, each installation must be approved to all applicable standards by a qualified person.¹
- All equipment must be set up and operated under the supervision of a competent person² according to the manufacturer's instructions.
- Modular components are labeled with the capacities and rating to which they were designed, tested, and manufactured. The rating of any system is considered to be the rating of the lowest rated component in the system. Do not use equipment if rating labels are damaged or illegible. New labels are available from DBI-SALA.
- Adjust the mast using the Pin Positions (PP) as noted in Step 10. Follow the maximum and minimum positions for the offset that matches your situation. Pay close attention to the base in case the base rating capacities change for different settings (offsets) of the Variable Offset Mast (e.g. pin position 4 must use base position 4).
- If overhead obstructions are in the way, adjust the screw on the gusset (V) to its collapsed position (no exposed threads). If obstructions are in front of your mast (e.g. a wall near the workspace access point) adjust the screw on the gusset (V) to its full length (maximum exposed threads).
- The system should be removed from the job site when no longer required.

INSTALLATION:

Step 1. To set up the hoist base, lay out all parts on the ground as in Figure 3.

Step 2. Remove leg pins (D) and rotate leg tubes (E) in leg sleeves (F) from transport/storage position (G) to operating position (H). Figure 3

NOTE: Leg assemblies must be in operating position (H) at all times when using the hoist.

Step 3. Insert leg sleeves (F) into base center section (I). The width of the base may be adjusted by selecting different holes (J) in the leg sleeve to install pin (K). Figure 3

NOTE: Base must be pinned into position through the hole in both the center section and the leg sleeve (K) at all times when using the hoist. Figure 4

Step 4. Tighten the tri-screws (L) after the desired width is obtained to remove play from the base. Figure 4

Step 5. Move the base into position over the opening. Adjust the base height and level using adjuster screw (M) and level indicator (N). Figure 4

NOTE: Base must be level at all times when using the hoist.

Step 6. To set up the hoist mast assembly, insert the lower mast (O) into base sleeve (P). Figure 5

Step 7. Make sure the stop dog (Q) faces the front of the sleeve (P), and that the lower mast (O) rotates freely throughout its range of rotation. Figure 5

1 Qualified Person: An individual with a recognized degree or professional certificate, and extensive knowledge and experience in the subject field, who is capable of design, analysis, evaluation, and specification in the subject work, project, or product.

2 Competent person: An individual who is knowledgeable of a manufacturer's recommendations, instructions and manufactured components who is capable of identifying existing and predictable hazards in the proper selection, use and maintenance of fall protection.

Step 8. Lock the lower mast (O) into position by tightening the tri-screw (L). Do not over tighten as this may interfere with mast rotation in a rescue situation. Figure 5

Step 9. Install the upper mast assembly (R). Make sure that the locating key (S) on the lower mast (O) completely engages the key way slot (T) of the upper mast (R). Figure 5

Step 10. To avoid tipping the base when swinging the mast side to side, adjust the base according to the following:

- **Determine the maximum operating offset of the Variable Offset Mast.** See Figure 6. Pin Positions 1-4 (PP) regulate the Top Pulley (A4) and Bottom Pulley (A3) offsets. The table in Figure 6 shows the maximum offset (MAX) and minimum offset (MIN) for each pulley in all 4 pin positions. Maximum offset is determined when the adjustable gusset (V) is fully collapsed (no visible threads). Minimum offset is determined when the adjustable gusset is fully extended. Note: In Figure 6 the Variable Offset Mast is in Pin Position 4 with the gusset fully collapsed.
- **Adjust the base according to the positions diagram shown for the base (W) and match the Base Pin Position (BPP) setting with the setting of the Variable Offset Mast Pin Position (PP)** (e.g. Mast Pin Position 4 must use Base Pin Position 4). See table in Figure 7.
- **Level the base by adjusting the screw legs (M) to center the bubble in the level indicator (N).** Figure 4

ENVIRONMENTAL HAZARDS: Use of this equipment in areas with environmental hazards may require additional precautions to reduce the possibility of injury to the user or damage to the equipment. Hazards include, but are not limited to: corrosion, chemicals, toxic gasses, heat, moving machinery, noise, sharp edges, and electrical hazards. Do not operate during electrical storms. Contact DBI-SALA if you have questions regarding use of this equipment where environmental hazards exist.

MAINTENANCE: Clean the equipment weekly as required, to thoroughly inspect all welds, labels, pins, fasteners, pulleys, rollers, brackets and parts. Annually, clean the unit thoroughly, using a damp cloth and a mild soap solution.

INSPECTION:

- **Before each installation,** inspect each system component in accordance with the individual manufacturer's instructions. Do not use if visible signs of deterioration or damage are present.
- **Before each use,** visually inspect per the following steps:
 - Step 1.** Inspect all structural parts for damage: dents, cracked welds, bent or crushed tubes.
 - Step 2.** Inspect all hardware (pins, tri-screws, adjuster screws, nuts, bolts, pulleys, rollers and winch brackets) for damaged threads, bent, damaged or missing fasteners, or loose fasteners. Check all pulleys and rollers for chips, grooves and excessive wear. Ensure that all pulleys and rollers turn freely.
 - Step 3.** Inspect all equipment for missing, damaged or otherwise illegible warning stickers. Damaged, missing or otherwise illegible labels must be replaced before using the hoist.
 - Step 4.** Additional equipment such as winches, self-retracting lifelines (SRLs), work positioning or fall-arrest equipment being used with your Hoist System must be installed, inspected, maintained and operated according to the manufacturer's instruction. All installations must be approved to local standards by a qualified person.
 - Step 5.** Do not use the hoist system if inspection reveals an unsafe or defective condition. Repair or replace the system before the next use.
- **Weekly:** Perform a complete visual inspection of equipment as outlined above. Clean equipment as required to thoroughly inspect all welds, labels, pins, fasteners, pulleys, rollers, brackets and parts. Record the inspection date and results in the 'Inspection and Maintenance Log'. If any problems are found do not use. Return to authorized service center for repair.
- **Annually:** The Hoist System must be inspected by a competent person at least annually. Record the inspection date and results in the 'Inspection and Maintenance Log'. If any problems are found do not use until equipment has been repaired by an authorized service center. Do not attempt to modify or repair this unit.

IMPORTANT: Extreme working conditions (harsh environment, prolonged use, etc.) may require increased frequency of inspections.

PRODUCT LIFE: As long as the Hoist System passes inspection by a competent person,* it may remain in service.

SPECIFICATIONS:³

- **Capacity:** One user with a maximum weight of 450 lbs. (205 kg) on line during operation.
- **Working Load Limit:** Minimum 4:1 safety factor

IMPORTANT: Per ANSI Z359.4; for rescue a 5:1 safety factor is maintained up to a maximum weight of 310 lbs. (141 kg).

- **Performance Load Ratings:**

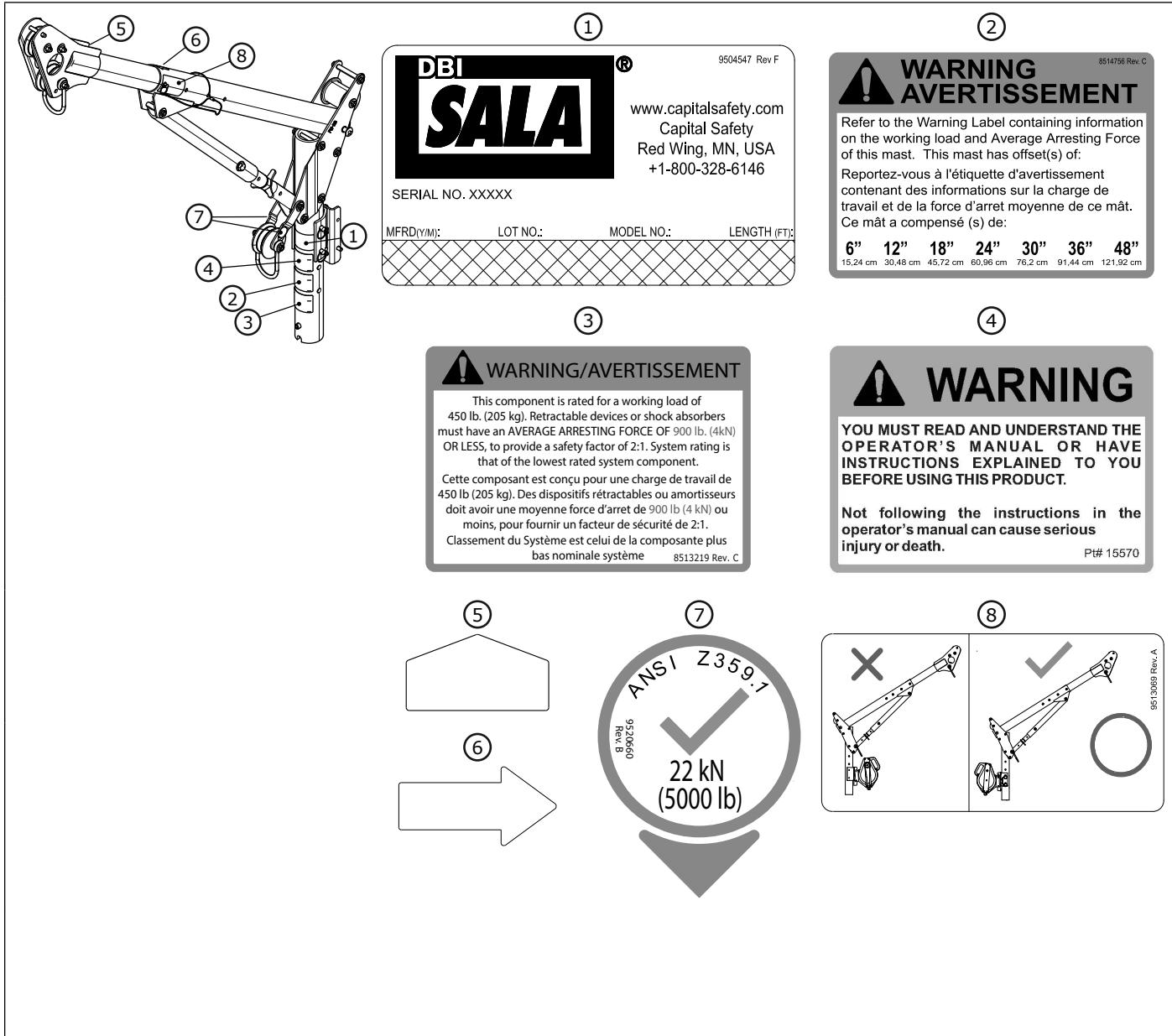
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A3 Anchor: OSHA 1926.502
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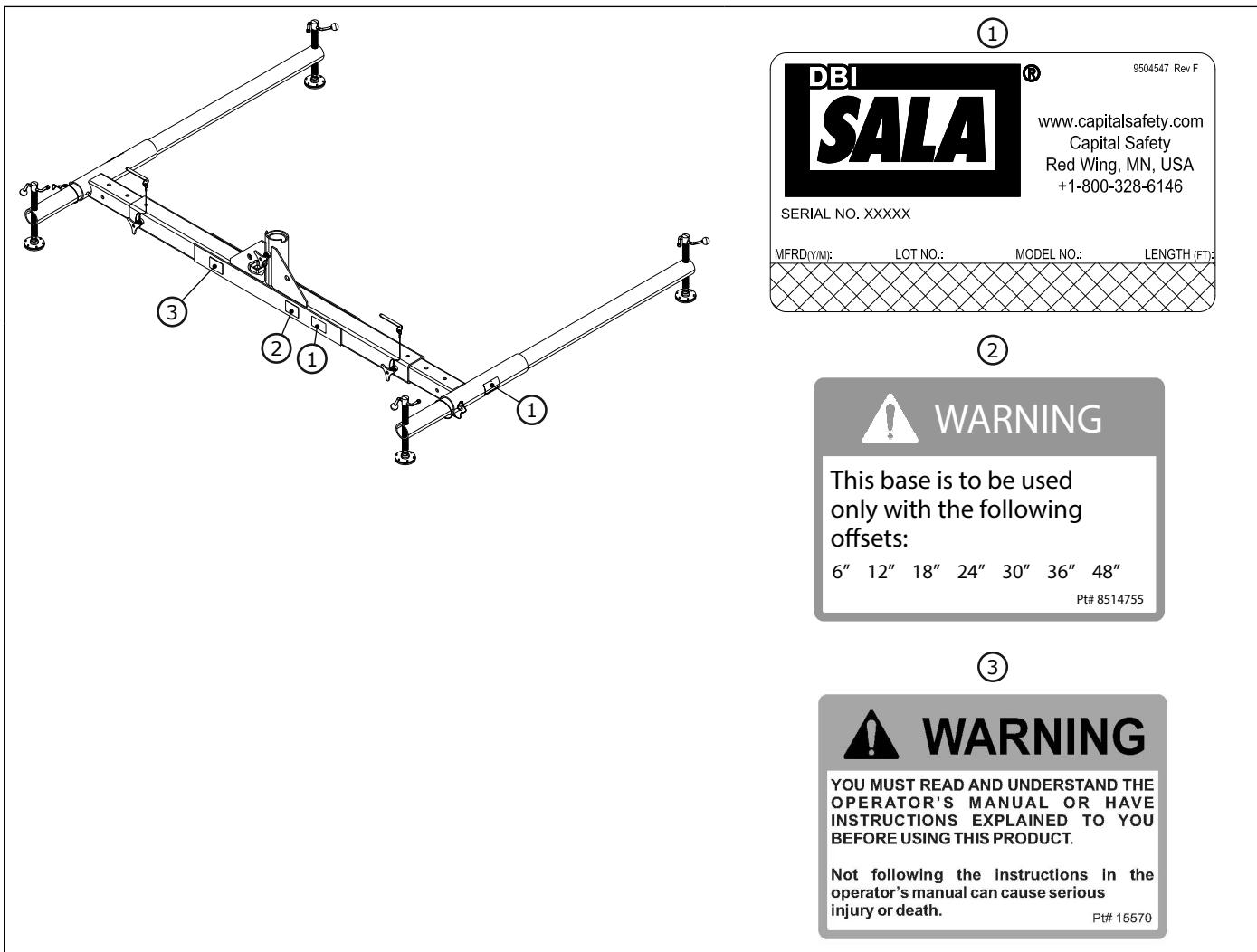
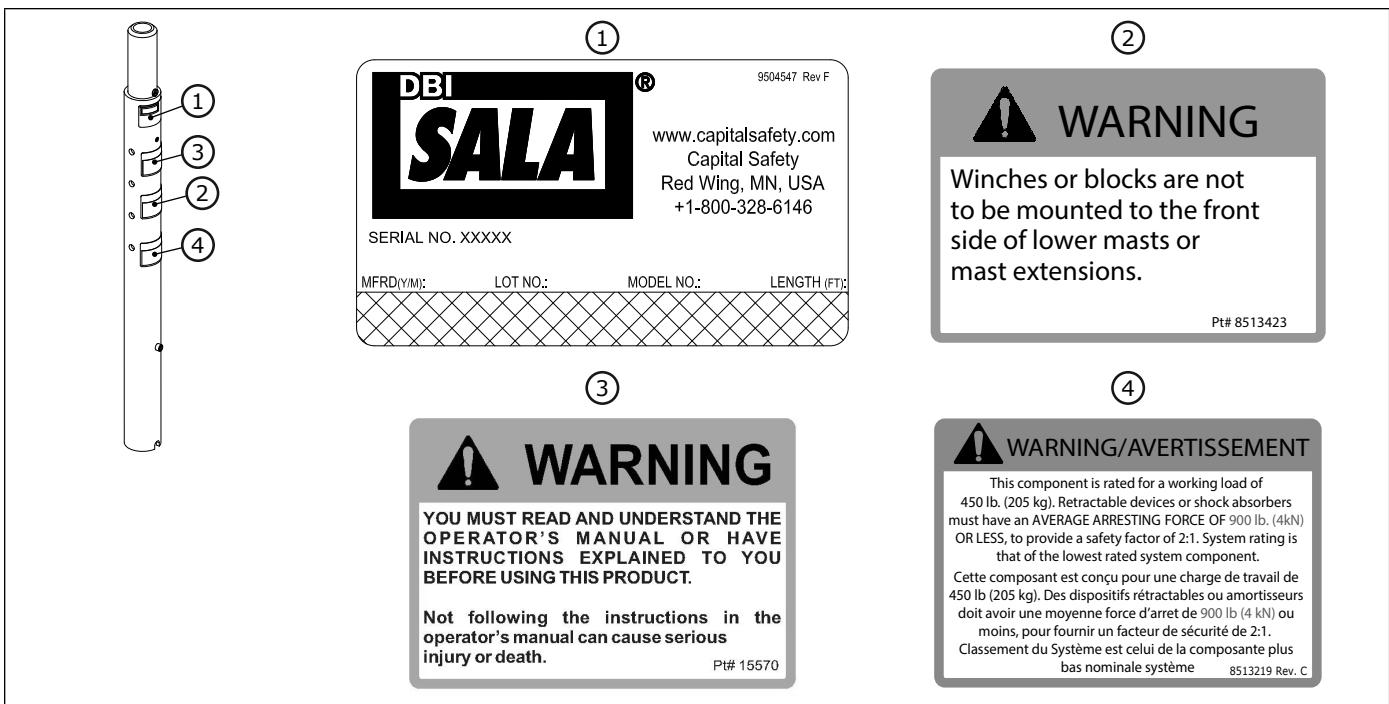
- **Davit Arm Weight:** 31.1 lbs (14.1 kg) - 50.0 lbs (22.7 kg)
- **5-Piece Base Weight:** 119.0 lbs (54.0 kg)
- **Finish:** Fluorescent Green Powder Coat Paint

3 Specifications: Refer to product markings for additional information.

LABELS:

The following labels must be present on your system and must be legible.





INSPECTION AND MAINTENANCE LOG

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