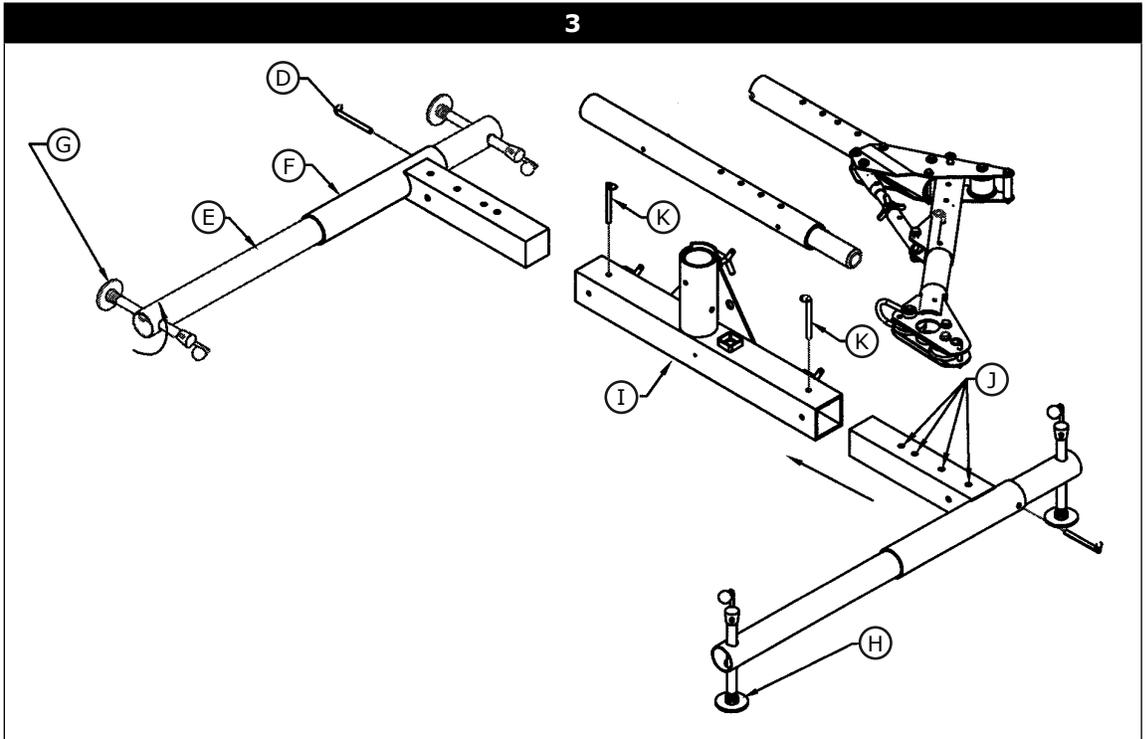
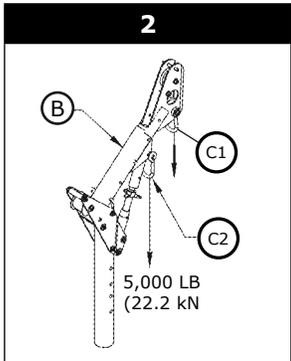
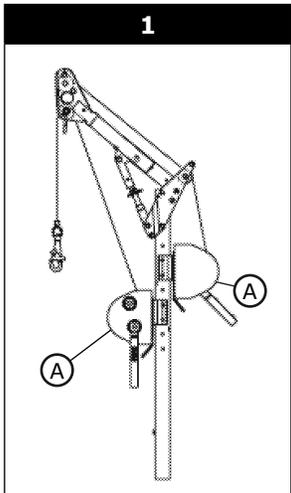
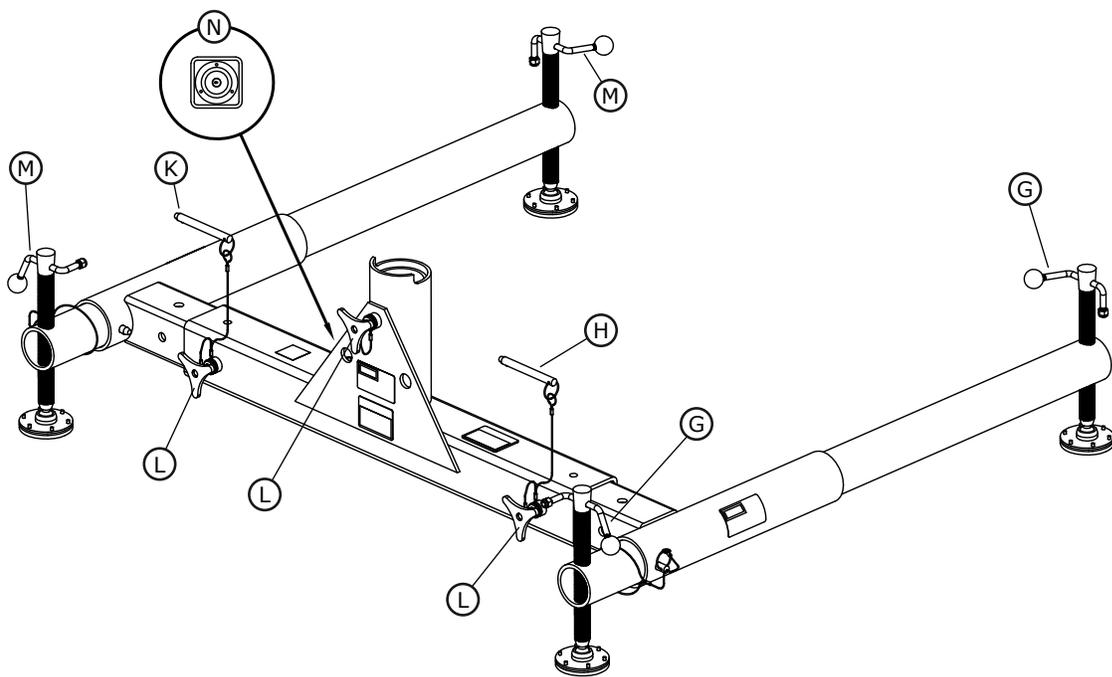


Model Numbers		
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8518001	8518385	8530183
8518002	8518386	8530184
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8518004	8518501	8530186
8518005	8518501	8530187
8518006	8518509	8530188
8518008	8519958	8530188
8518040	8519960	8530394
8518040	8525829	8530394
8518040	8525976	8530395
8518382	8525977	8530395
8518383	8530100	8530420

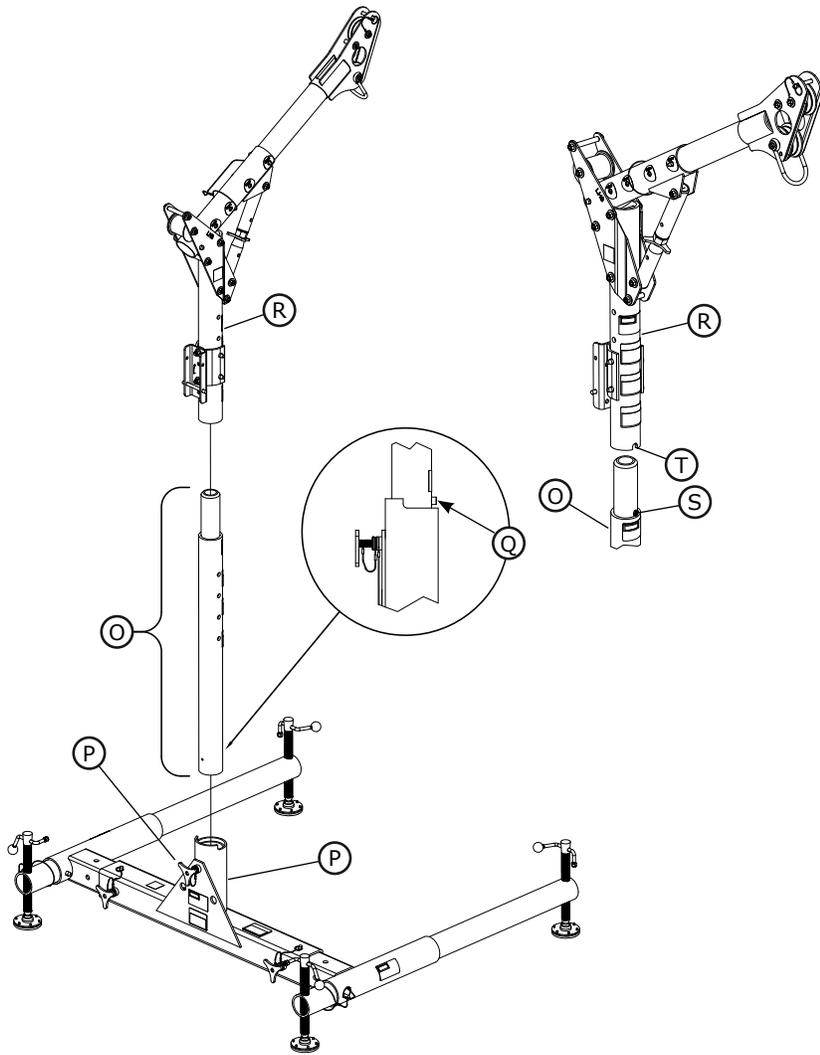
COMPONENT	MATERIAL
HOIST BASE	ALUMINUM
VARIABLE OFFSET MAST	ALUMINUM
LOWER MAST	ALUMINUM
HARDWARE	ZINC PLATED

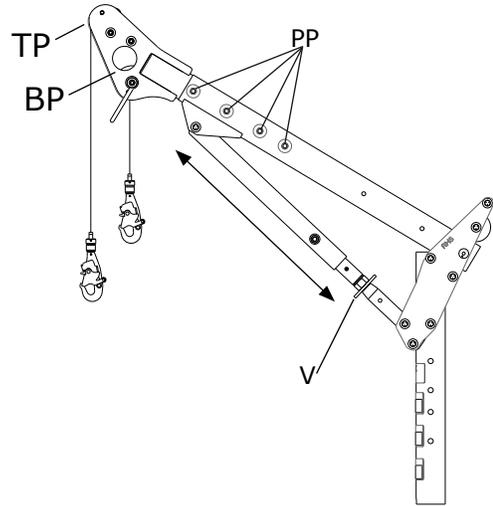
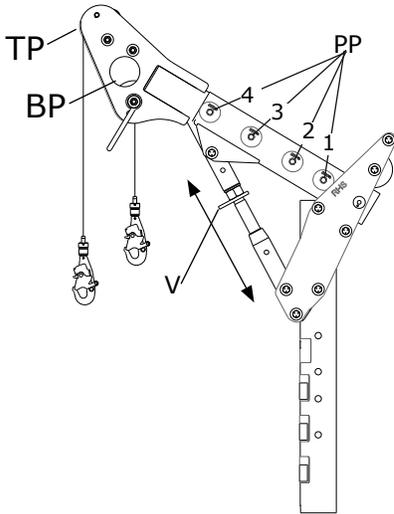


4



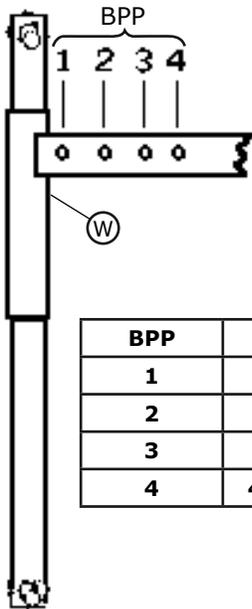
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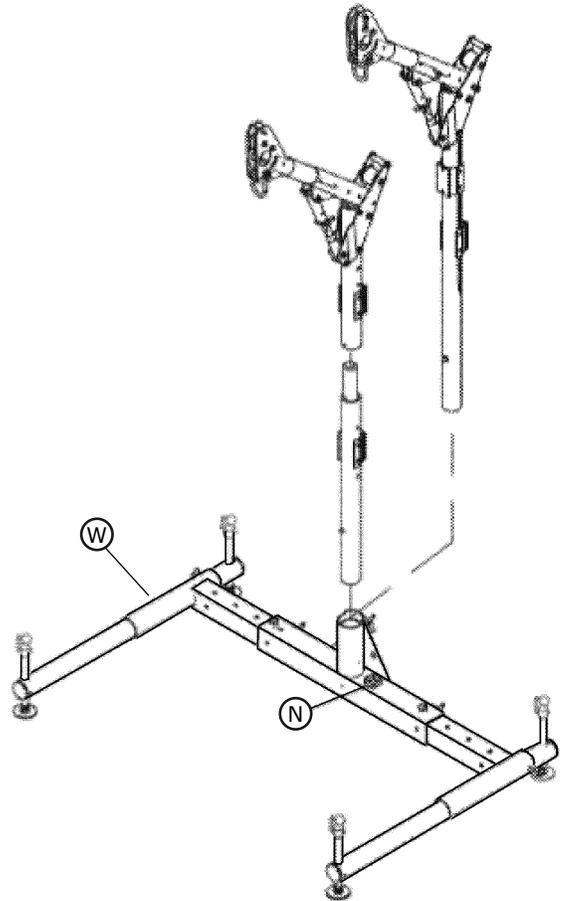


xxx8000		PP1	PP2	PP3	PP4
TP	MAX	17.55" (44.55cm)	20.15" (51.15cm)	23.65" (60.05cm)	27.10" (68.80cm)
	MIN	11.65" (29.55cm)	13.55" (34.40cm)	16.10" (40.85cm)	18.65" (47.35cm)
BP	MAX	15.25" (38.70cm)	17.85" (45.30cm)	21.35" (54.20cm)	24.80" (62.95cm)
	MIN	11.25" (28.55cm)	13.20" (33.50cm)	15.75" (40.00cm)	18.30" (46.45cm)

xxx8040		PP1	PP2	PP3	PP4
TP	MAX	32.60" (82.80cm)	35.20" (89.40cm)	38.60" (98.00cm)	42.05" (106.80cm)
	MIN	23.45" (59.56cm)	25.35" (64.35cm)	27.95" (70.95cm)	30.55" (77.50cm)
BP	MAX	30.45" (77.30cm)	33.00" (83.80cm)	36.45" (92.50cm)	39.85" (101.20cm)
	MIN	23.00" (58.40cm)	24.95" (63.35cm)	27.55" (69.95cm)	30.10" (76.45cm)



BPP	PP
1	1
2	2 & 1
3	3, 2 & 1
4	4, 3, 2 & 1



USE: The Man Rated 5-Piece Adjustable/Variable Offset Hoist System is designed to attach to a person in order to raise or lower them to a work space. The system has been designed and manufactured to comply with the requirements of ANSI A 359.1-1992 and CE. This instruction covers the Advanced Variable Offset Mast (Model 18000, 18040) which has a pulley offset range from 12 inches (30.5 cm) to 29 inches (73.7 cm). Lower masts and mast extensions are designed to function as the same component. A maximum of two components may be combined, but must not exceed 90 inches (228.6 cm) in height. Combinations of three or more components must be reviewed and approved by DBI-SALA. The Advanced Variable Offset Mast may be equipped with front mounted and/or back mounted winches (A) and self retracting lifelines (SRLs). Figure 1. The Offset Mast (B) has a standard anchor point (C1) with a variable capacity (depending on the offset pin position); and the additional 5000 lb. (22.2 kN) capacity anchor point (C2) can be used for fall-arrest anchorage. A head mounted U-bracket (Pt#15651) is available to mount on this anchor point (C2). Figure 2.

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.
- Winches and SRLs may not be mounted in the front position on lower masts or mast extensions. Rear mounting is allowed at any point.
- 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.*
- All equipment must be set up and operated under the supervision of a competent person** 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.

*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.*

**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.*

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
- 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 (TP) and Bottom Pulley (BP) 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 1 with gusset fully extended.*
 - **Adjust the base according to the positions diagram shown for the base (W) and match the Base Pin Position (BPP) setting Pwith 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 8

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 the 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 sytem before the next use.
- **Weekly:** Perform a complete visual inspection of equipment as outlined above. Clean equipment as required to throughly 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:

Capacity: One user with a maximum weight of 450 lbs. (205 kg) on line during operation.

Working Load Limit: Minimum 4:1 safety factor

Proof Load Ratings:

- Standard Anchor (C1) Figure 2
 - Pin Position 1 & 2 5000 lb. (22.2 kN)
 - Pin Position 3 3600 lb. (16 kN)
 - Pin Position 4 3000 lb. (13 kN)
- Optional Anchor (C2) Figure 2 5000 lb. (22.2 kN)

Weight: 100.5 lb. (45.7 kg)

Finish: Fluorescent Green Powdered Coat

Refer to product markings for additional information.

LABELS:

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

11 1/2" - 27 1/2"
(29.2 cm - 69.8 cm)

23 1/2" - 42 1/2"
(59.7 cm - 108 cm)

①

②

WARNING

Refer to the Warning Label containing information on the working load and maximum M.A.F. rating of this mast. This mast has offset(s) of:

6" 12" 18" 24" 30" 36" 48"

Pt# 14756

③

WARNING

This component is rated for a working load of 450 lb. (205 kg). Retractable devices or shock absorbers must have a MAXIMUM ARRESTING FORCE (M.A.F.) RATING OF 900 lb. (4kN) OR LESS. System rating is that of the lowest rated system component.

Pt# 13219

④

WARNING

YOU MUST READ AND UNDERSTAND THE OPERATOR'S MANUAL OR HAVE INSTRUCTIONS EXPLAINED TO YOU BEFORE USING THIS PRODUCT.

Not following the instructions in the operator's manual can cause serious injury or death.

Pt# 15570

⑤

⑥

⑦

500 lb (22kN) Rated
Anchor Point

WARNING
Pt# 15776

⑧

3000 lb (13kN) Rated
Anchor Point

WARNING
Pt# 15776

⑨

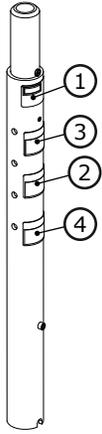
3600 lb (16kN) Rated
Anchor Point

WARNING
Pt# 15771

⑩

1800 lb (8kN) Rated
Anchor Point

WARNING
Pt# 15775



9504547 Rev F

DBI
SALA

www.capitalsafety.com
Capital Safety
Red Wing, MN, USA
+1-800-328-6146

SERIAL NO. XXXXX

MFRD(Y/M): LOT NO.: MODEL NO.: LENGTH (FT):

WARNING

Winches or blocks are not to be mounted to the front side of lower masts or mast extensions.

P# 8513423

WARNING

YOU MUST READ AND UNDERSTAND THE OPERATOR'S MANUAL OR HAVE INSTRUCTIONS EXPLAINED TO YOU BEFORE USING THIS PRODUCT.

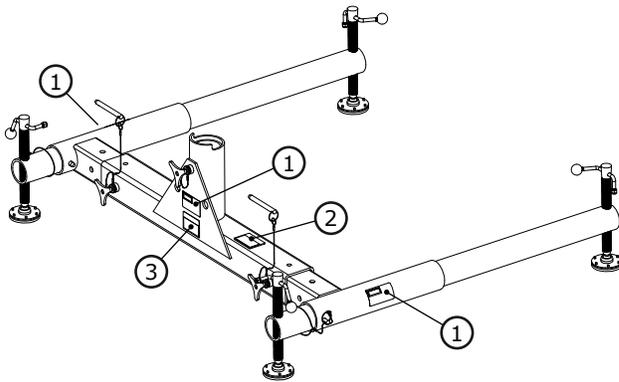
Not following the instructions in the operator's manual can cause serious injury or death.

P# 15570

WARNING

This component is rated for a working load of 450 lb. (205 kg). Retractable devices or shock absorbers must have a **MAXIMUM ARRESTING FORCE (M.A.F.) RATING OF 900 lb. (4kN) OR LESS.** System rating is that of the lowest rated system component.

P# 13219



9504547 Rev F

DBI
SALA

www.capitalsafety.com
Capital Safety
Red Wing, MN, USA
+1-800-328-6146

SERIAL NO. XXXXX

MFRD(Y/M): LOT NO.: MODEL NO.: LENGTH (FT):

WARNING

This base is to be used only with the following offsets:

6" 12" 18" 24" 30" 36" 48"

P# 8514755

WARNING

YOU MUST READ AND UNDERSTAND THE OPERATOR'S MANUAL OR HAVE INSTRUCTIONS EXPLAINED TO YOU BEFORE USING THIS PRODUCT.

Not following the instructions in the operator's manual can cause serious injury or death.

P# 15570

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