

Novitool® Aero® Press Stand Safety and Operation Manual

Splicing Press Efficiency in the Fabrication Workshop



 **WARNING**

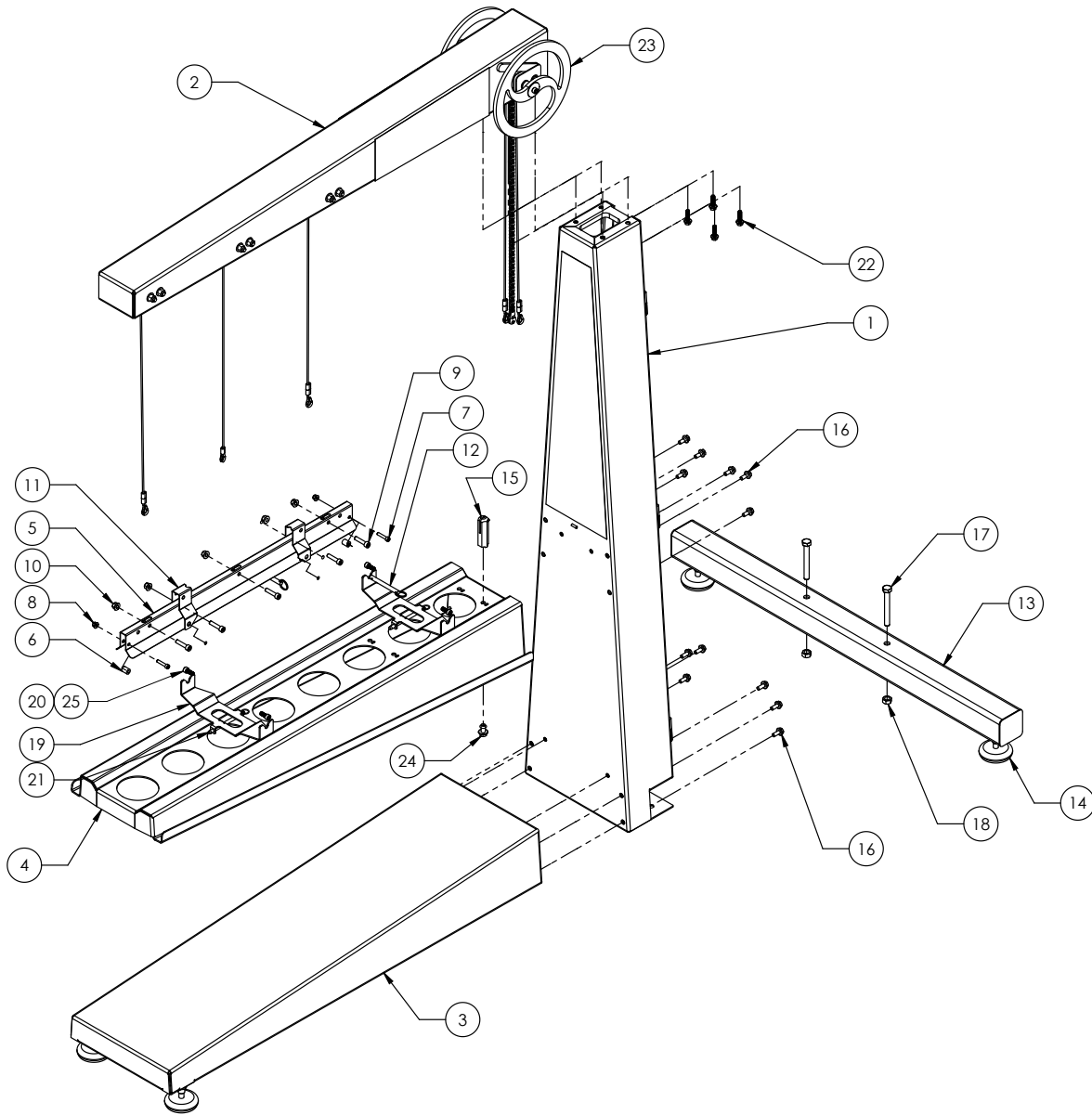
IMPROPER OR UNSAFE use of this tool can result in serious bodily injury! This manual contains important information about product function and safety. Please read and understand this manual BEFORE operating the tool. Please keep this manual available for other users and owners before they use the tool. This manual should be stored in a safe place.

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Disclaimer The Aero Press Stand has been tested successfully with the Aero® 625, 925, and 1225, along with the Aero 900, 1200, and 1500 models. It is intended for use only with Aero splicing presses manufactured by Flexco and only in these three specific models.

Main Components Aero® Press Stand



No.	Item Code	Description	Qty	No.	Item No.	Description	Qty
1	09463	AERO-STD-CW-G3-COLUMN-ASSY	1	14	Q1753	FOOT LEVELING M16	4
2	09461	AERO-STD-CW-G3-TOPBEAM-ASSY	1	15	08320	AERO-STAND-LOCATING-POST	1
3	08313	AERO-STAND-BASE	1	16	G1991	SCRW HHCS FLG M8X20 ZN	12
4	08312	AERO-STAND-CRADLE	1	17	G2027	BOLT HEX FLNG M12X100 ZN	2
5	GQ865	LIFT-BAR-G2-G3	1	18	C1726	HEX NUT M12-1.75 ZN	2
6	G2040	SPACER 6MMX16MM ZN	2	19	GQ861	ADAPTER ELEV BRACKET	2
7	G2037	SCREW SHCS M6X30 ZN	2	20	GQ916	SCRW SHCS M8X20 ZP	4
8	G2039	NUT NYLOK FLNG M6 ZN	2	21	G2034	PIN-DENTENT-8MMX100	2
9	G2036	SCRW SHCS M8X35 ZN	5	22	G2026	SCRW HHCS FLG M8X20 ZN	4
10	G2038	NUT NYLOK FLNG M8 ZN	5	23	GQ875	WHEEL	2
11	GQ860	CHANNEL LB INTERFACE	2	24	G2050	SCREW HEX FLG M10X20 ZN	1
12	GR102	PIN DENTENT 9.5MMX75MM ZN	2	25	09203	NUT-T-M8-JEV-508RPS	4
13	08314	AERO-STAND-CROSSUPPORT	1				



Description

With the Aero® Press Stand, you are in possession of a quality Novitool® product from Flexco. The carefully developed and built machine gives you the option of the highest quality conveyor belting fabrication. With the Aero Stand, you can now easily position the the Aero 625, 925, and 1225 as well as the Aero 900, 1200, or 1500 press for fabrication convenience and time savings.

The stand is manufactured from heavy gauge sheet metal to assure stability for continuous press use.

The design allows for the Aero presses to be loaded quickly and conveniently. The lower beam of the Aero is fixed into the stationary cradle of the press stand. The upper beam is connected into the press using cable interface. One person can operate it easily, where movement of the upper half of the press is assisted with counterweights.

Follow the detailed instructions on page 17 to learn how to off load the pressure in the top beam of the press.

Specifications

Aero® Stand Ordering Information	
Item Code	09458
Description	AERO-STD-CW-G3-625-1225
Dimensions Assembled	1399 x 1116 x 1930 mm (55" x 44" x 76")
Dimensions Working	1583-1883 x 1116 x 1930 mm (62-74" x 44" x 76")
Shipping Weight	165.6 kg (365 lbs)
Carton Dimensions	1664 x 559 x 381 mm (65.5" x 22" x 15")

The Identification plate of the Aero Press Stand is located on the inside of the column assembly door.

Tools Required for Assembly of the Aero® Stand

- Ratchet with metric socket set
- Metric open end wrench set
- Metric hex key set
- Adjustable wrench
- Channel lock or pliers
- Drift punch
- Hammer

General Safety Rules – Save These Instructions–

Signal words:

“DANGER” indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations.

“WARNING” indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

“CAUTION” indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

Safety Symbol



This international safety symbol is used to identify and call attention to specific safety matters.

Safety Information

To Avoid Severe Personal Injury or Property Damage, read carefully and understand the following Safety Precautions.

1. WORK AREA

CAUTION

Keep your work area clean and well lit.

2. PERSONAL SAFETY

WARNING

Use safety equipment. Always wear eye protection, gloves, non-skid safety shoes, and adhere to other safety standards of the facility where operating the Aero® Press and Stand.

Stay alert, watch what you are doing and use common sense when operating a machine. Do not use machine while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating machines may result in serious personal injury.

Do not wear loose clothing or jewelry. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

Abide by all instructions and warning labels.

This equipment is not to be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge of the equipment.

3. TOOL USE AND CARE

CAUTION

Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using. Poorly maintained tools cause many accidents.



4. SERVICE AND MAINTENANCE

⚠ CAUTION

When servicing a tool, use only original replacement parts. Use of unauthorized parts or failure to follow Maintenance Instructions, may create a risk of injury.

Do not wipe plastic parts with solvent. Solvents such as gasoline, thinner, benzene, carbon tetrachloride, and alcohol may damage and crack plastic parts. Do not wipe them with such solvents. Wipe plastic parts with a soft cloth lightly dampened with soapy water and dry thoroughly.

⚠ WARNING

Only qualified repair personnel must perform tool service. Service or maintenance performed by unqualified personnel could result in a risk of injury.

NEVER use a tool, which is defective or operating abnormally. If the tool appears to be operating unusually, making strange noises, or otherwise appears defective, stop using it immediately and arrange for repairs

Maintain tools with care. Keep machine parts clean. Properly serviced tools are less likely to bind or clutter material and are easier to control.

5. AERO STAND SAFETY

⚠ DANGER

Read and understand the Aero Press operations manual before using the press in the Aero Stand.

⚠ CAUTION

Avoid pinch points during the assembly and in operation. Exercise caution when moving weights or lifting and positioning of components.

Exercise care to avoid unbalanced component conditions during assembly.

Do not cut or kink the lifting cables during handling, assembly, or operation of the Aero Stand.

⚠ WARNING

Two persons are required for assembly of the Aero Stand. Portions of the process are difficult for one person to perform without risk of injury.

Ensure that Aero Press is secure in stand prior to operation.

Do not move the press stand to a different location while the press is installed.

Do not exceed weight capacity of the Aero Stand cradle. The Aero Stand design is for use only with Aero presses 625, 925, and 1225, and may also accommodate 900, 1200, and 1500.

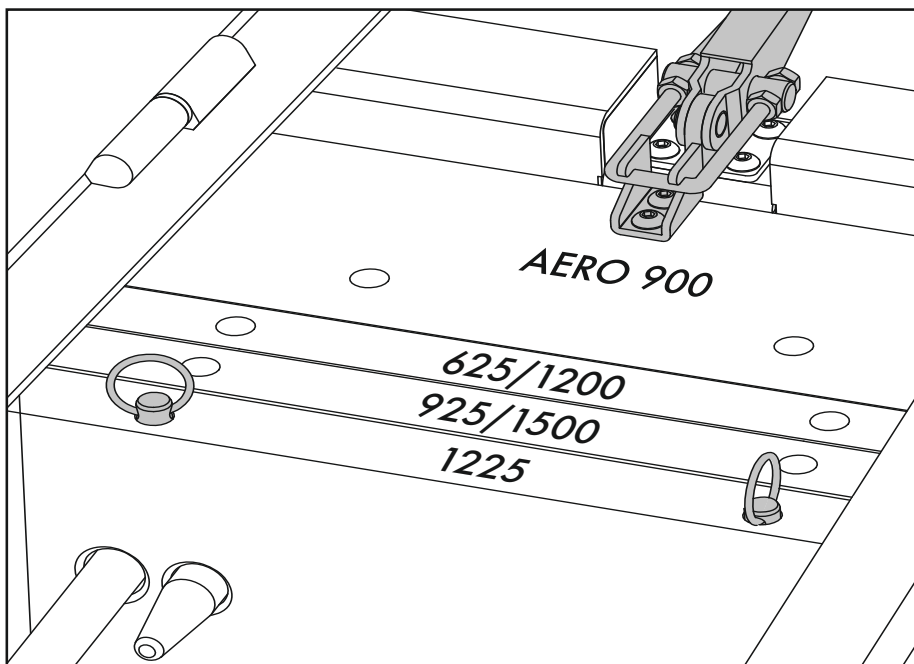
Ensure that the weight pins are installed securely in the proper position before operating the stand.

Ensure that the vertical column door is closed and latched during operation of the stand.

Avoid raising/lowering of the upper beam with excessive speed.

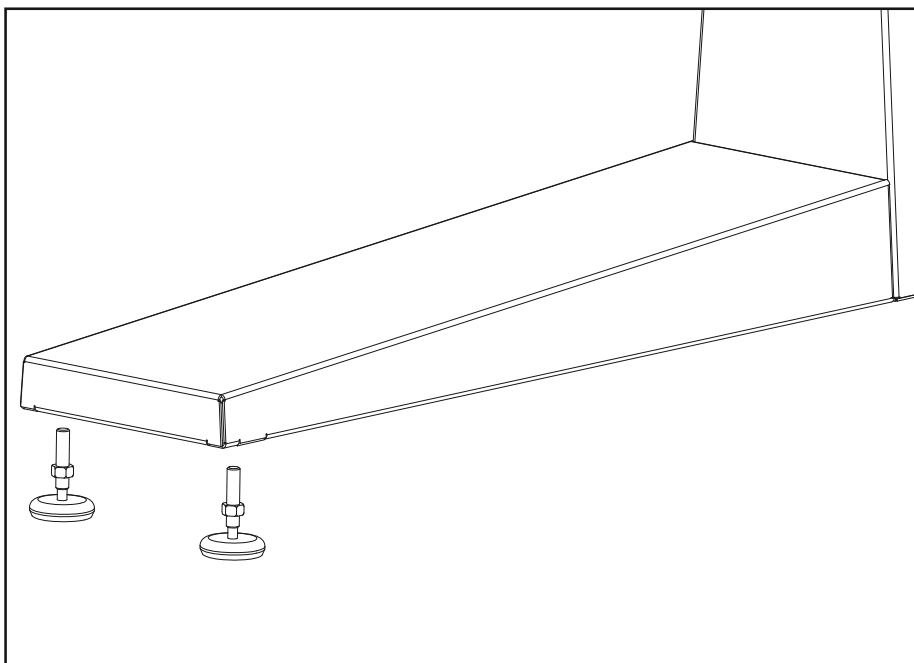
Aero Stand Assembly

A1



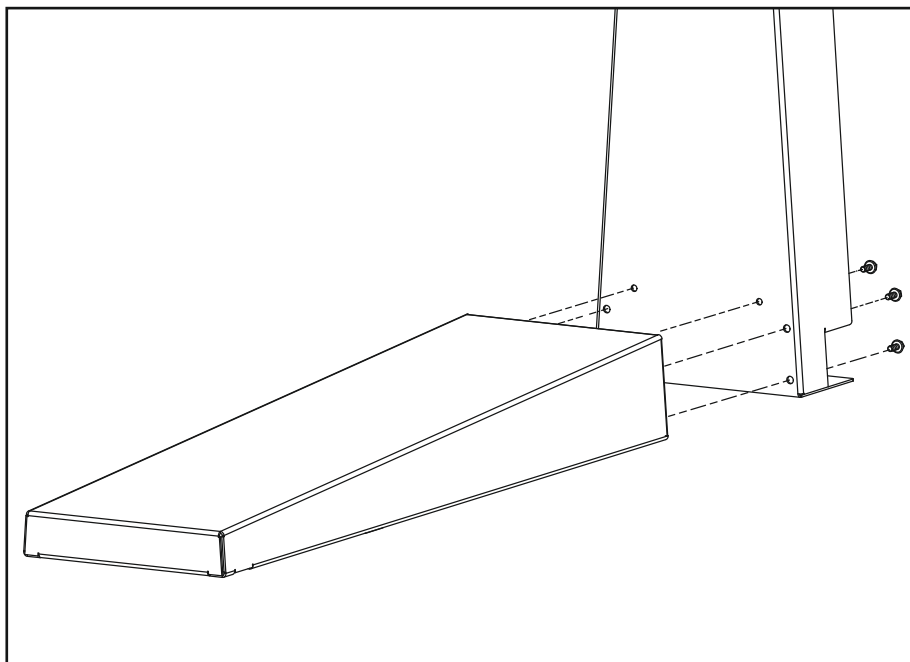
With column assembly laying on the floor, open door and remove packing material. Confirm that pins in weight mechanism are to Aero 1225 location. Ensure that all four weights are located to the top and fastened into place with the toggle clamp.

A2



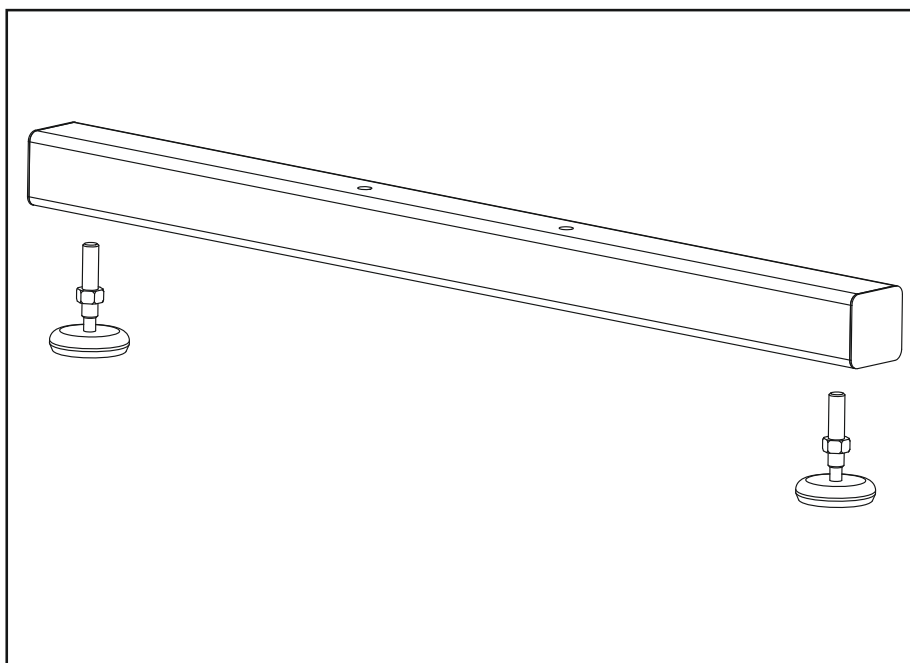
Ensure jam nuts are positioned onto the threaded shafts of the leveling feet (as shown) before installation. Install two leveling feet (item # 14) into Aero Stand base (item # 3). Ensure leveling feet are fully engaged through mounts.

A3



Using six M8 × 20 mm screws (item # 16) assemble base (item # 3) to column assembly (item # 1). Note: Install all screws initially loose, tightening after all are installed.

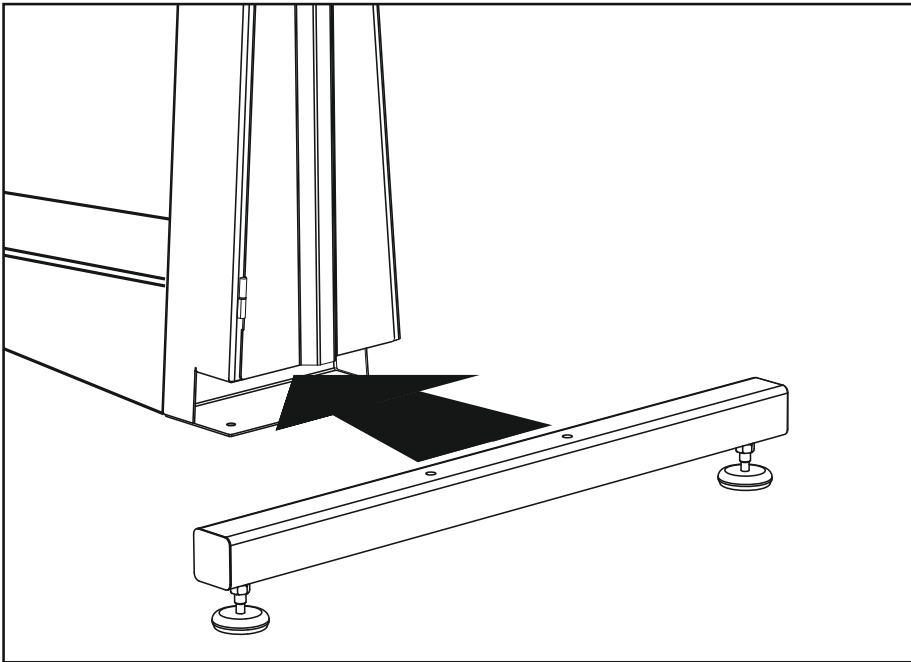
A4



Ensure jam nuts are positioned onto the threaded shafts of the leveling feet (as shown) before installation. Install two leveling feet (item # 14) into cross support assembly (item # 3). Ensure leveling feet are fully engaged through the mounts.

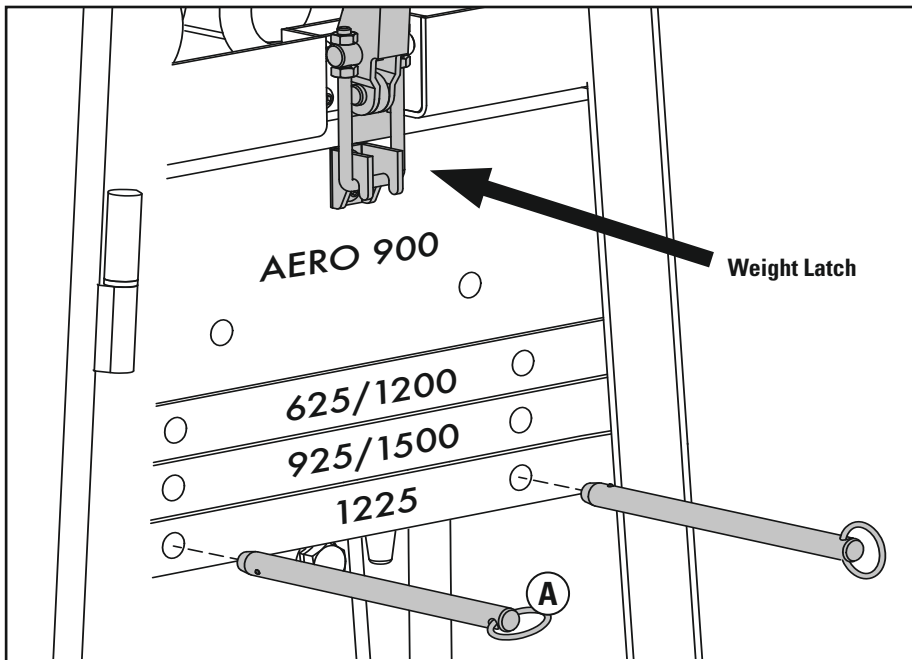
Aero Stand Assembly

A5



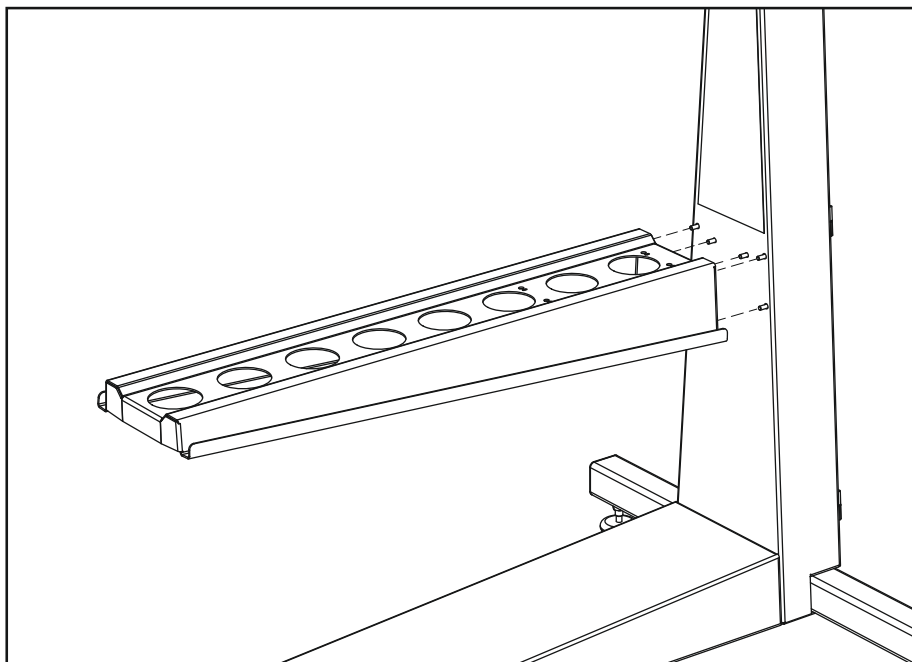
Using two M12 × 100 mm bolts (item # 17) and two M12 nuts (item # 18) assemble cross support assembly (item # 3) into column assembly (item # 1).

A6



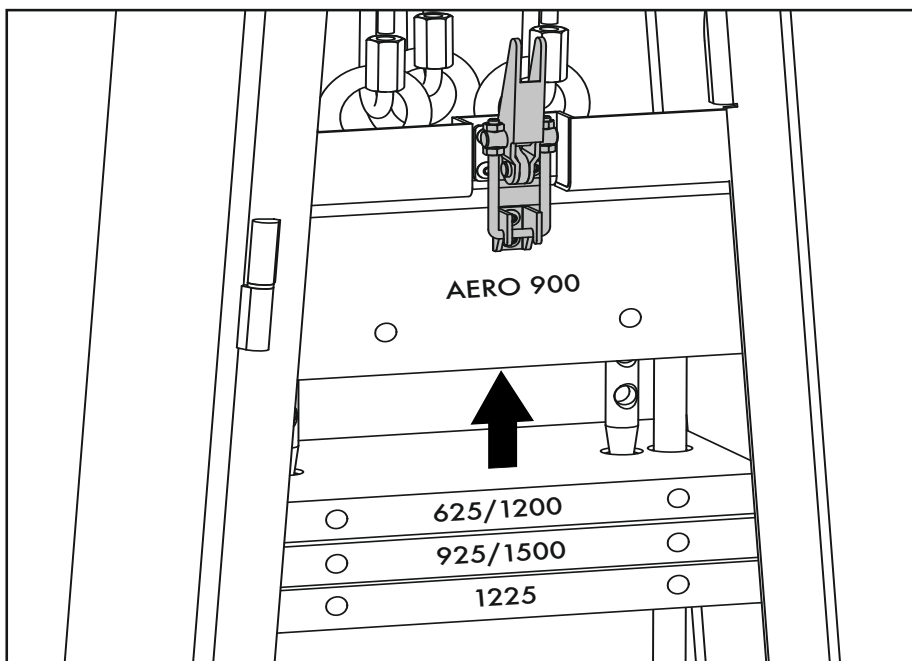
With the weight latch engaged, manually support the weights (position A), remove the pins and lower the weights, taking care to avoid pinch points. Support the remaining (Aero 900) weight (Position A), disengage the weight latch and lower the Aero 900 weight. Avoid pinch points within the weight path!

A7



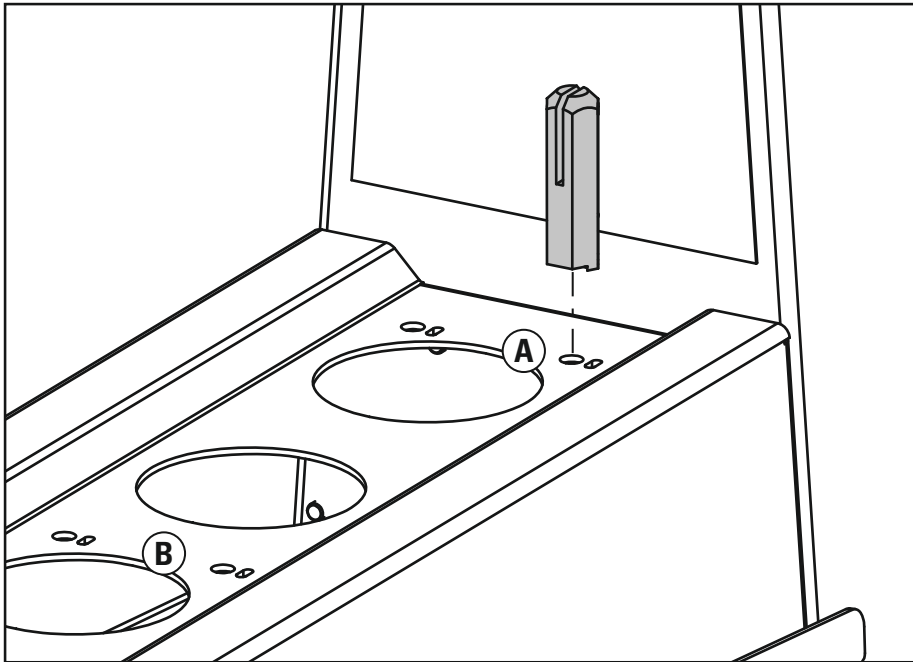
Using six M8 × 20 mm screws (item # 16) assemble cradle (item # 4) to column assembly (item # 1) **Note:** Install all screws initially loose, tightening after all are installed.

A8



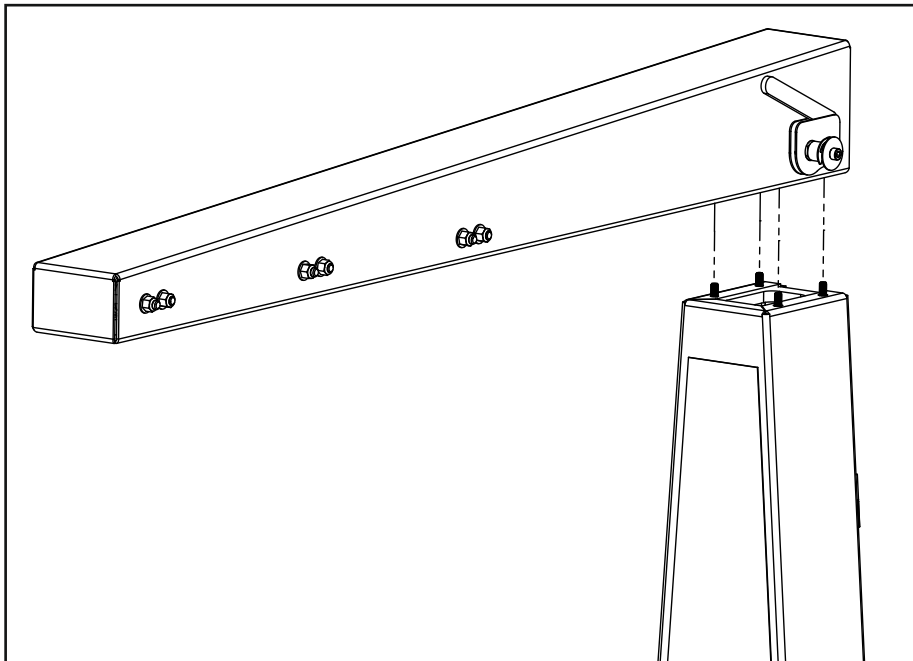
Raise the Aero 900 weight and engage the weight latch. Raise the Aero 625/1200, 925/1500 and 1225 weights and secure them in the uppermost position with the pins. Avoid pinch points within the weight path!

A9



For use with Aero 900, 1200, or 1500, install locating post (item # 15) into cradle (item # 4) using one M10 × 20 mm screw (item # 24), inserted from below. Position A for Aero 1200 and 1500. Position B for the Aero 900. Post is keyed for proper orientation.

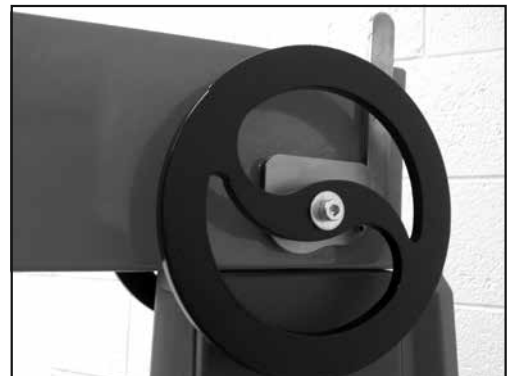
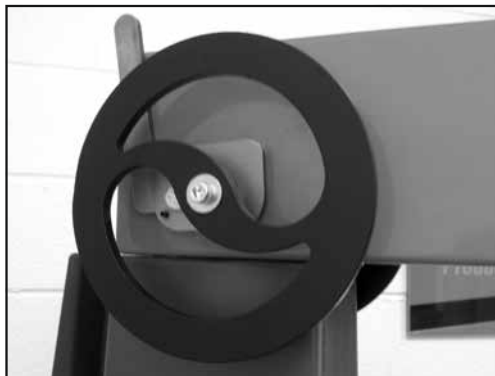
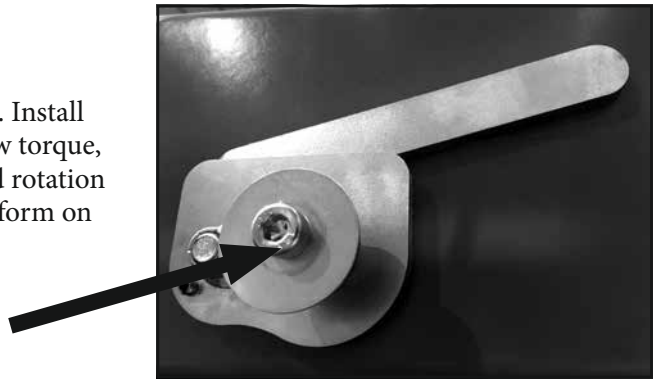
A10



Using four M8 × 30 mm screw (item # 22), install top beam assembly (item # 2) to column assembly (item # 1). **Note:** Install all screws initially loose, tightening after all are installed.

A11

Remove socket head screw and washer. Install wheel (Item # 23). **NOTE:** during screw torque, use wheel as wrenching device to avoid rotation of the left hand threaded shaft nut. Perform on both sides.

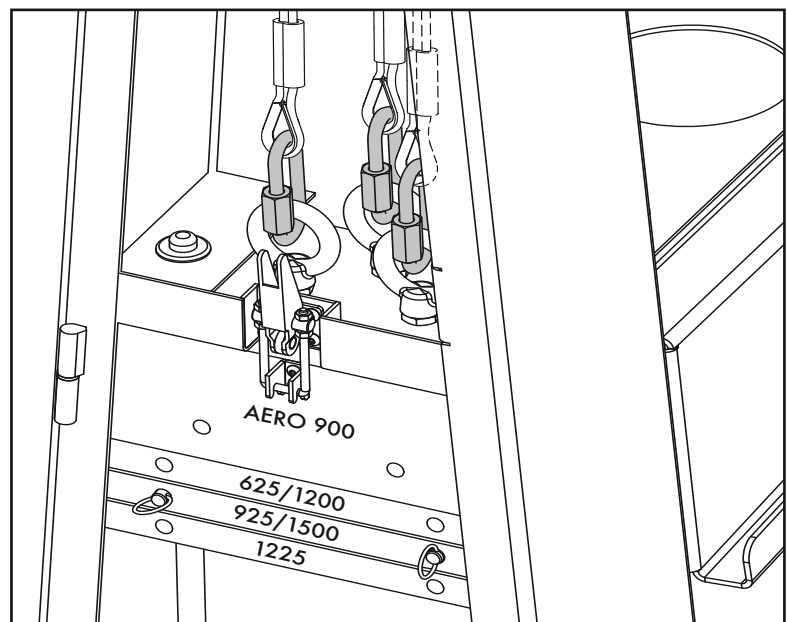


A12

Inside the column assembly, ensure that the weights are secured with the weight latch.

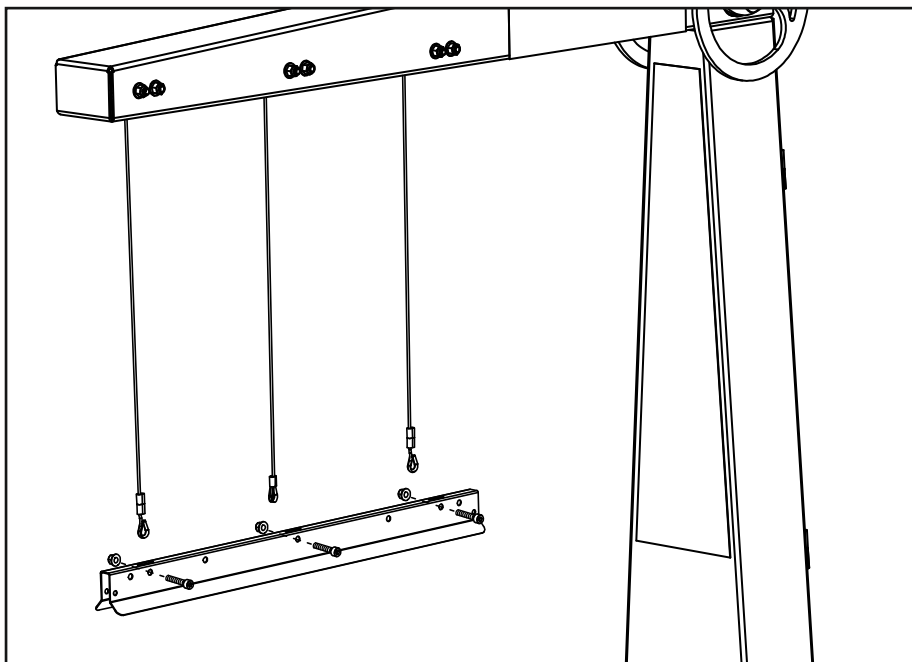
Follow the cables from the pulley located in the top beam from the back side of the Aero Stand assembly for proper positioning. Fix the cables to the weight system using the provided quick link clevises.

The cable that runs through the center groove of the pulley should be fastened to the center eyebolt. Follow with the left groove to the left eyebolt and right groove to right eyebolt. Take care not to cut, kink, or twist cables. After the cables are installed, ensure that the quick link nuts are secured to close the link.



Aero Stand Assembly

A13

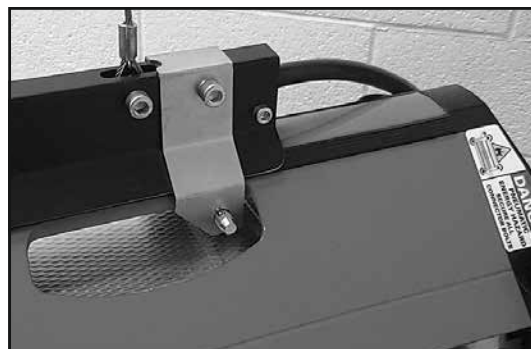
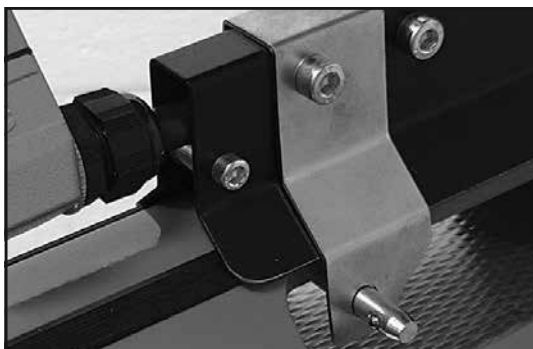


Install lifting bar (item #5) to the three cables hanging from the top beam assembly using three M8 × 35 mm screws (item # 9) and three M8 nuts (item # 10).

A14



Use two M6 × 30 mm screws (item # 7), two M6 nuts (item # 8), and two 6 mm spacers (item # 6) to secure the umbilical cable extension into the lifting interface.



When using Aero stand for Aero 925 and Aero 1225, reposition lifting bar channel interfaces to each end of the lifting bar.

FLEXCO

Aero Stand Assembly

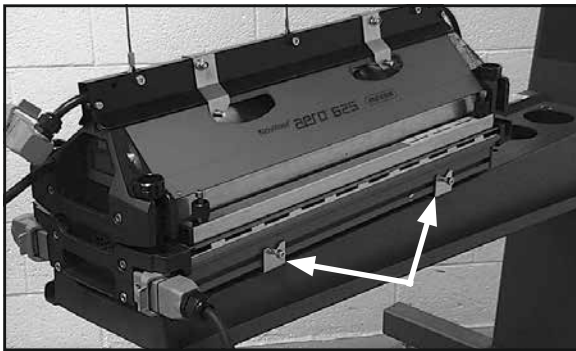
A15

Place adapter brackets (Item #19) on Aero® stand cradle. One at the front of the cradle and the other at approximate position of end of press (15a). See photos for positioning of Aero 625 (15b), Aero 925 (15c), and Aero 1225 (15d).



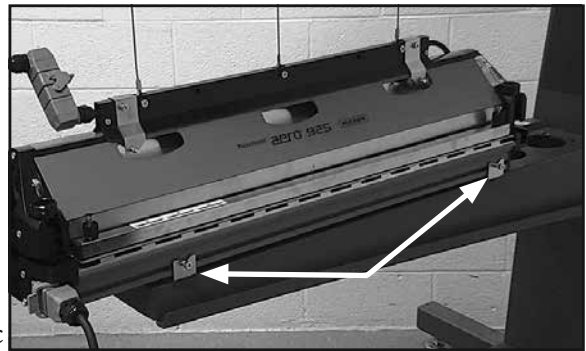
15a

Aero 625



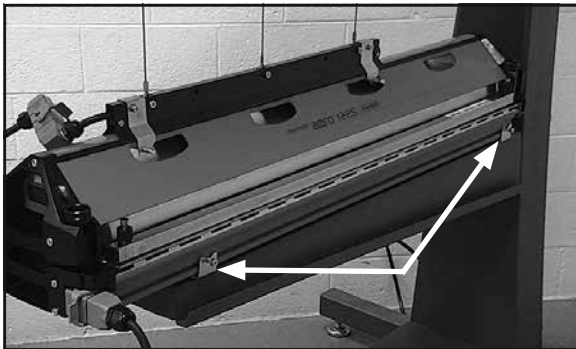
15b

Aero 925

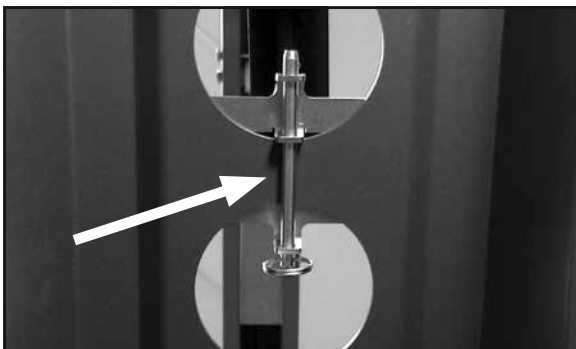


15c

Aero1225



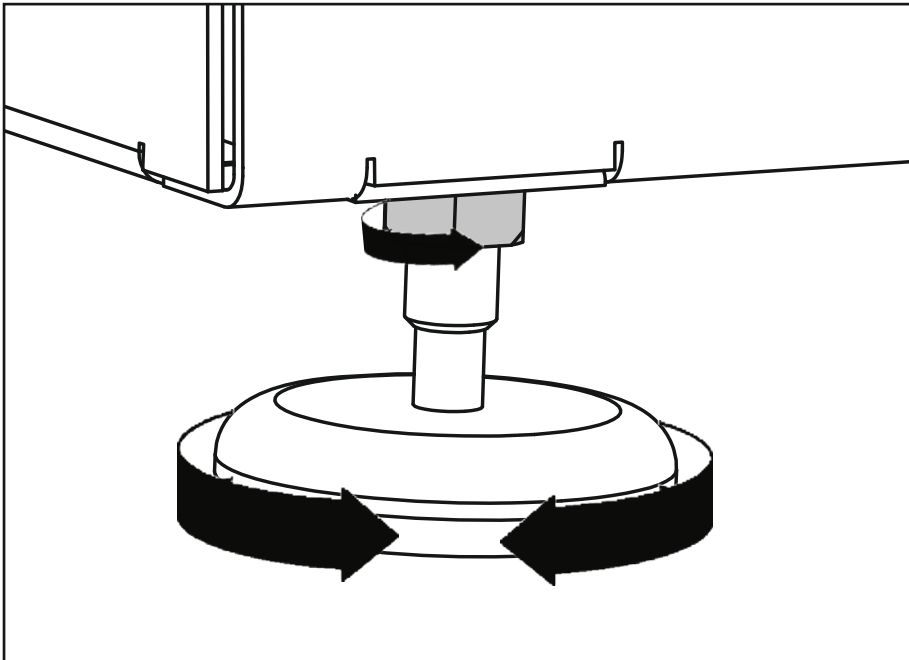
15d



15e

Install M8 x 100 detent pins (Item #21) through holes in adapter bracket tabs on underside of cradle (15e).

A16



With the Aero Stand located for operation, rotate the leveling feet as necessary to be sure that the stand is level. Assure that the leveling feet shafts remain fully engaged through the frame. Tighten all leveling feet jam nuts to the frame.

Installing the Aero Press into the Aero Press Stand

B1

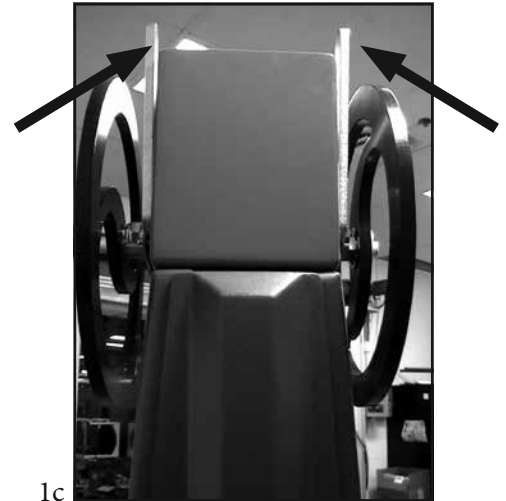
Place Aero® Press bottom beam on cradle within the adapter brackets (1a). Place the Aero Press top beam in place and pin to lifting bar using pins. (item # 12) (1b) In weight cabinet, pin the appropriate counterweight for the press placed in the stand. Elevate Aero top beam to determine the 'suspended' position, relocate press base if necessary. To lift top press beam the pawl on both sides of the stand beam are to be located in the up position (1c).



1a



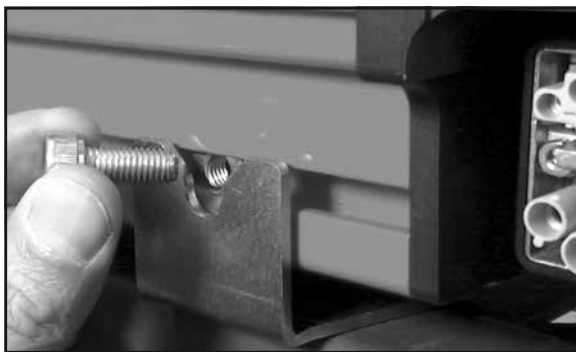
1b



1c

B2

Insert four M8 t-nuts (item # 25) into bottom beam of press extrusion. Screw four M8 x 20 socket screws (item # 20) into the t-nuts to engage the adapter bracket as shown. Install screws (2a and 2b).



2a



2b

Installing the Aero Press into the Aero Press Stand

B3

With Aero® Press top beam suspended, check tension of each cable (**3a**). If a cable has significantly less tension than the others, unload weight from top press beam, lock out weight in compartment (**3b**), adjust the counterweight lifting eye thread engagement to better distribute the cable tension (**3c** and **3d**).

NOTE: ensure a minimum of ten threads are engaged with the top counterweight. Orient lifting eyes as shown. Once tensions are balanced, tighten lifting eye jam nuts.



3a



3b



3c

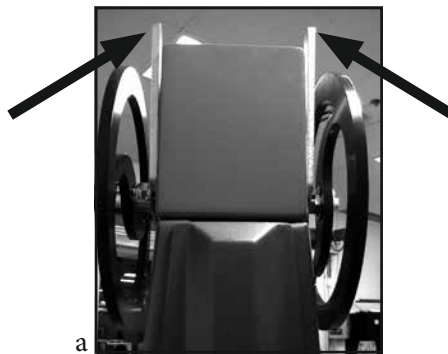


3d

Operation

The Aero® 625, 925 and 1225 air bladders are located in the upper press beam. It is necessary to “off-load” the counterweight system, to achieve appropriate set-down of the top beam on the belt to be spliced.

During lifting and lowering of the upper press beam, the pawl levers are placed in the ‘up/disengaged’ position. (a)



Once the upper press beam is positioned on the process belt, the pawl levers are lowered to the ‘down/engage’ position. (b)



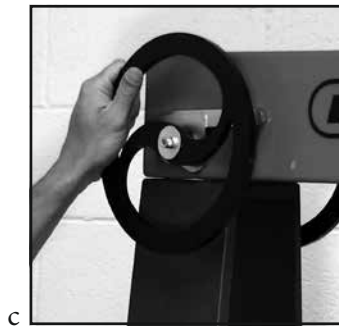
Rotate the wheel in the direction to lift counterweights, which will further lower the upper press beam. Approximately 2-3 ‘clicks’ of the pawl lever are typically sufficient to completely off-load the counterweight.

Follow operating instructions from Novitool® Aero® Splice Press Safety and Operation Manual to complete the splice.

Operation

Once the splice process is complete, unfasten the press connector bolts.

To off-load the top press beam: Grasp the off-load wheel, (c)



Rotate the off-load wheel in the counterweight 'lift' direction until the pawl lever is released, (d)



Rotate the pawl lever to the 'up/disengaged' position (both pawl levers up), (e)



Lift top press beam with lifting arm attached (f)



⚠ WARNING

**Do not use the pawl system to service counterweights.
Use counterweight latch system in cabinet, as well as
supplemental lock out methods—blocking/clamping of weights.**

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