

Compact Mobile DRX-L Positioning Partner

Installation Guide and User Instructions



Model: POSPCO-DRXL

Revision: April 2021

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i. Intended Use

The Compact Mobile DRX-L Positioning Partner (Model# POSPCO-DRXL) is designed to hold and position the Long-length DR Panel for use in general radiography. There are no contraindications for use of this device.

ii. Safety and Compliance



Precautions!

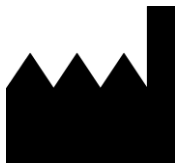
- The unit is pre-assembled but take care in uncrating, as the device is very heavy.
- Use only on a flat, level surface.
- Follow any warning labels on the unit and these instructions.
- Do not attempt to adjust the Detector Mount height prior to reading the instructions.
- Failure to adhere to the Precautions listed herein may result in injury to user or patient!

Compliance

The **POSPCO-DRXL Compact Mobile Support** is a Class 1 Medical Device (510k exempt) in the USA and is registered to:

Reina Imaging

6107 W. Lou Avenue
Crystal Lake, IL 60014 USA
Phone: +1-800-752-4918



The **POSPCO-DRXL Compact Mobile Support** has been labeled and declared:



This model has been classified as a Class 1, Annex VII device.

European Authorized Representative:

Pinchet Rx SRL

Contact: Paolo Pinchet

Via Don Gnocchi 24 20148 Milano Italy

Phone: 02 / 48707603

Reina Imaging 6107 W. Lou Ave., Crystal Lake, IL 60014 USA +1-800-752-4918

iii. Warranty

Reina Imaging warrants to the Original Purchaser that this product will be free from defects in its workmanship and materials, under normal use and service conditions, as described herein. “Defects” as used in this warranty, is defined as any imperfections which impair the use of the product. The company will repair or replace, at its option, without charge to the original purchaser only, the defective products or parts for a period of 1 year from the date of purchase and while owned by the Original Purchaser. Should any component fail under normal use during this period, it is the buyer’s responsibility to contact customer service at +1-800-752-4918.





Not Covered Under this Warranty




Damage caused by user abuse, misuse, negligence, accidental misuse and normal wear will not be covered under this warranty. Users are responsible for reading all instructions prior to using the product(s).

NOTE: Some images in this manual do not reflect the DRX-L Long-Length DR Panel product, however, the work instructions are the same.

1. About This Manual

- 1.1. Disclaimer - This manual was written to provide proper guidelines for using the Compact Mobile DRX-L Positioning Partner. Using the Compact Mobile DRX-L Positioning Partner in a manner other than detailed in this manual can be dangerous and can cause serious property damage and injury. The user accepts all risks and Reina Imaging shall not be responsible for any liability caused by improper use. Reina Imaging assumes no responsibility to assess the user's technical ability or clearance to operate the Compact Mobile DRX-L Positioning Partner. Use of the Compact Mobile DRX-L Positioning Partner constitutes the user's acceptance of all responsibility for liability caused by its use.
- 1.2. Symbols Used in This Manual – There are various symbols included in this manual with which the user should be familiar. Table 1.2 identifies these symbols and explains their meanings.

Symbol	Symbol Name	Symbol Meaning
	Manufacturer	Signifies the manufacturer of the product, accompanied by plain text details of factory name and location
	Date of Manufacture	Signifies the date the product was manufactured, accompanied by plain text date in YYYY MM DD format
	Operator's Manual/Operating Instructions	Signifies that the Operator's Manual/Operating Instructions contain pertinent information for the user
	Caution	See Section 1.3 for complete details


	Warning	See Section 1.3 for complete details
	Danger	See Section 1.3 for complete details
	Do Not Lean	The user nor the patient should lean on the POSPCO-DRXL, as it is a mobile device and could shift or move
Symbols Used in This Manual		Table 1.2

1.3. Additional Information Concerning Risks - Throughout this manual additional information is presented to the user to aid in understanding of risks during certain operations. This additional information is not comprehensive of all risks assumed by the user and this product should only be operated by trained persons possessing the technical expertise required for safe operation.

There are three types of additional risk-related information presented to the user:


- *Caution* – Cautions in this manual contain information to help the user avoid minor risks such as product problems due to improper assembly or usage. Failure to heed this level of warning may result in product failure, minor product damage, unusable product, property damage and the like.

The user or patient may also experience minor injuries.

	The Caution Symbol
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- *Warning* – Warnings in this manual contain information to help the user understand substantial risks. Failure to heed this level of warning could result in serious product damage and serious property damage.

The user or patient may also experience serious injuries that would likely require medical attention.

	The Warning Symbol
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- *Dangers* – Dangers defined in this manual contain information to help the user understand extreme risks. Failure to heed this level of warning could result in total product destruction and catastrophic property damage.

The user or patient may also experience grievous personal injury resulting in hospitalization or death.

	The Danger Symbol
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- 1.4. Changes to This Manual - User manuals are updated from time to time to offer information about product improvements, to reflect engineering changes, general workflow and the like. As these updates are released they will be made available for download by users. It is the user's responsibility to consult our website for the latest materials regarding this system prior to use. Users should check back periodically for updates and check before installation of the product(s) is recommended.

2. Product Description and Specifications

- 2.1. Product Description - The Compact Mobile DRX-L Positioning Partner is designed to hold and position the Long-length DR Panel for use in general digital radiography. It is mobile with a wheeled base and features a two-tiered nested column with lift-assist, a telescopic horizontal support arm and a rotating/tilting detector mount.

2.2. Product Specifications

Weight (without Panel and Grid Loaded)	170lbs/77kg
Dimensions	30"x23.25"x40" / (76.2cmx59cmx101.6cm)
Total Vertical Stroke	44" / 111.75cm
Pneumatic Piston Vertical Stroke	19" / 48.25cm
Horizontal Arm Vertical Stroke	25" / 63.5cm
Horizontal Stroke (Telescoping Arm)	6" / 15.25cm
Max. Height Active Imaging Area - Portrait	83" / 210.75cm
Min. Height Active Imaging Area - Portrait	3" / 7.5cm
Max. Height Active Imaging Area - Landscape	67" / 170cm
Min. Height Active Imaging Area - Landscape	6.25" / 16cm

Environmental Operating Conditions	+4°C to 38°C (40°F to 100°F), Relative Humidity < 90%, Barometric Pressure 29.92 In Hg / 760 mm Hg to 11.12 In Hg / 282.4 mm Hg
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3. Required Tools and Equipment

- 3.1. Uncrating – Philips screwdriver
- 3.2. Assembly – No tools required

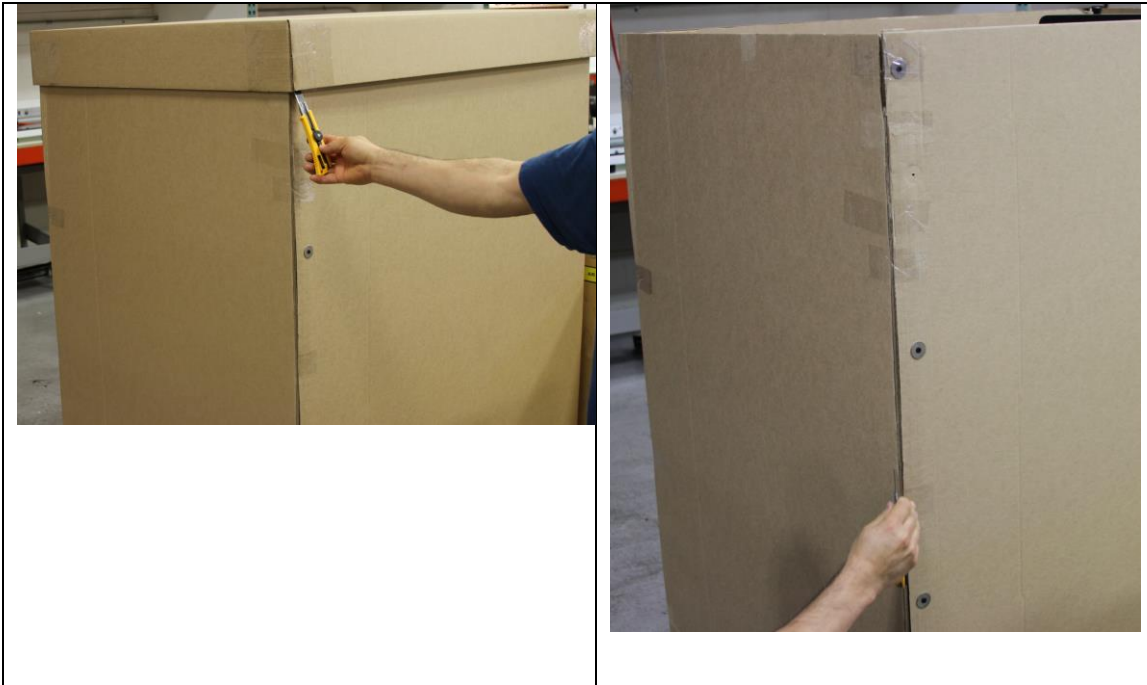


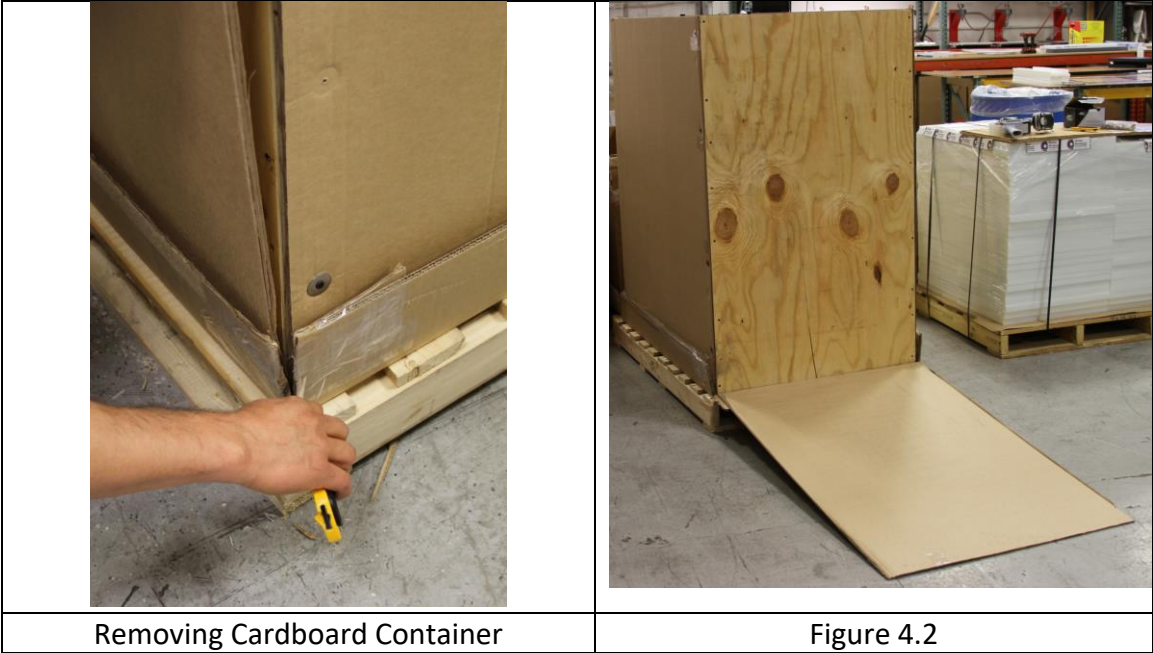
CAUTION!

The device is very heavy. Take care to move it with caution. Separate uncrating instructions are attached to the crate.

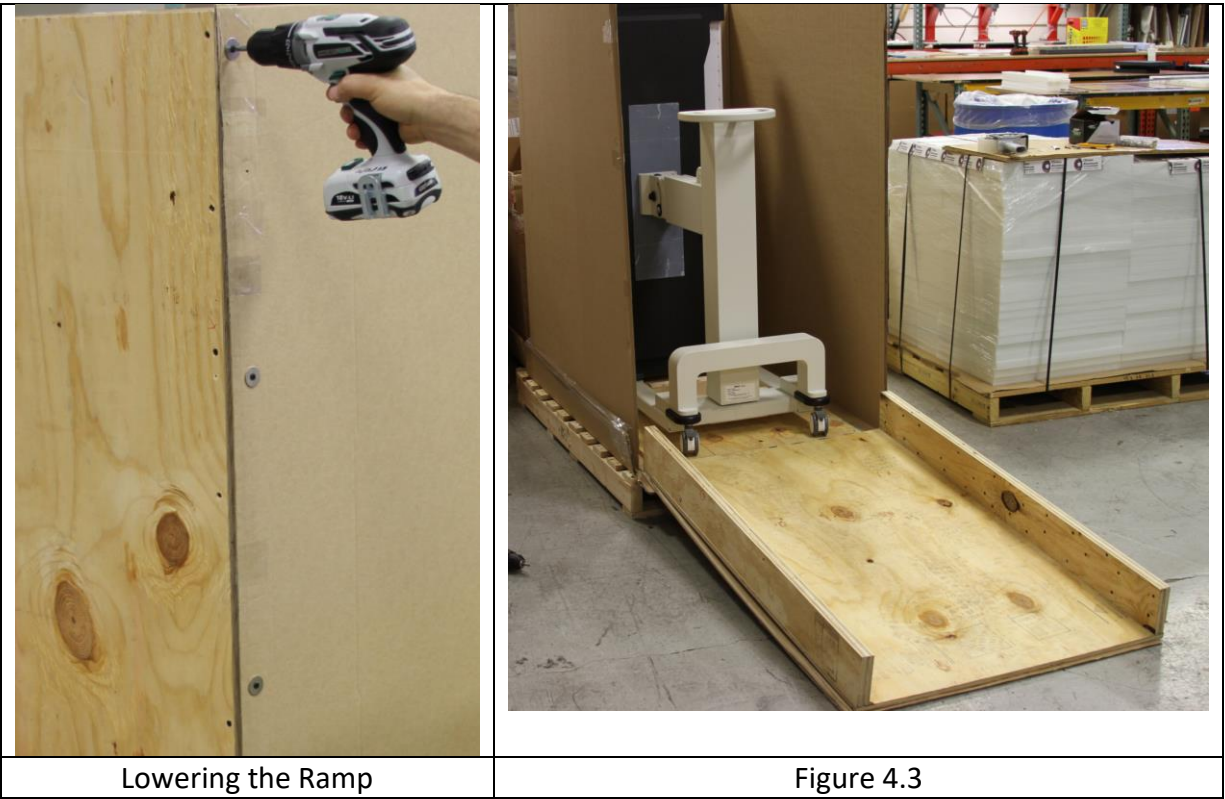
4. Uncrating the Device

- 4.1. The device comes fully assembled and can be wheeled off the pallet by means of the included ramp.
- 4.2. Cut the packing tape connecting the lid and box as well as the two edges where the screws are located and remove the box top. Allow the now cut side of the box to lower to the floor.

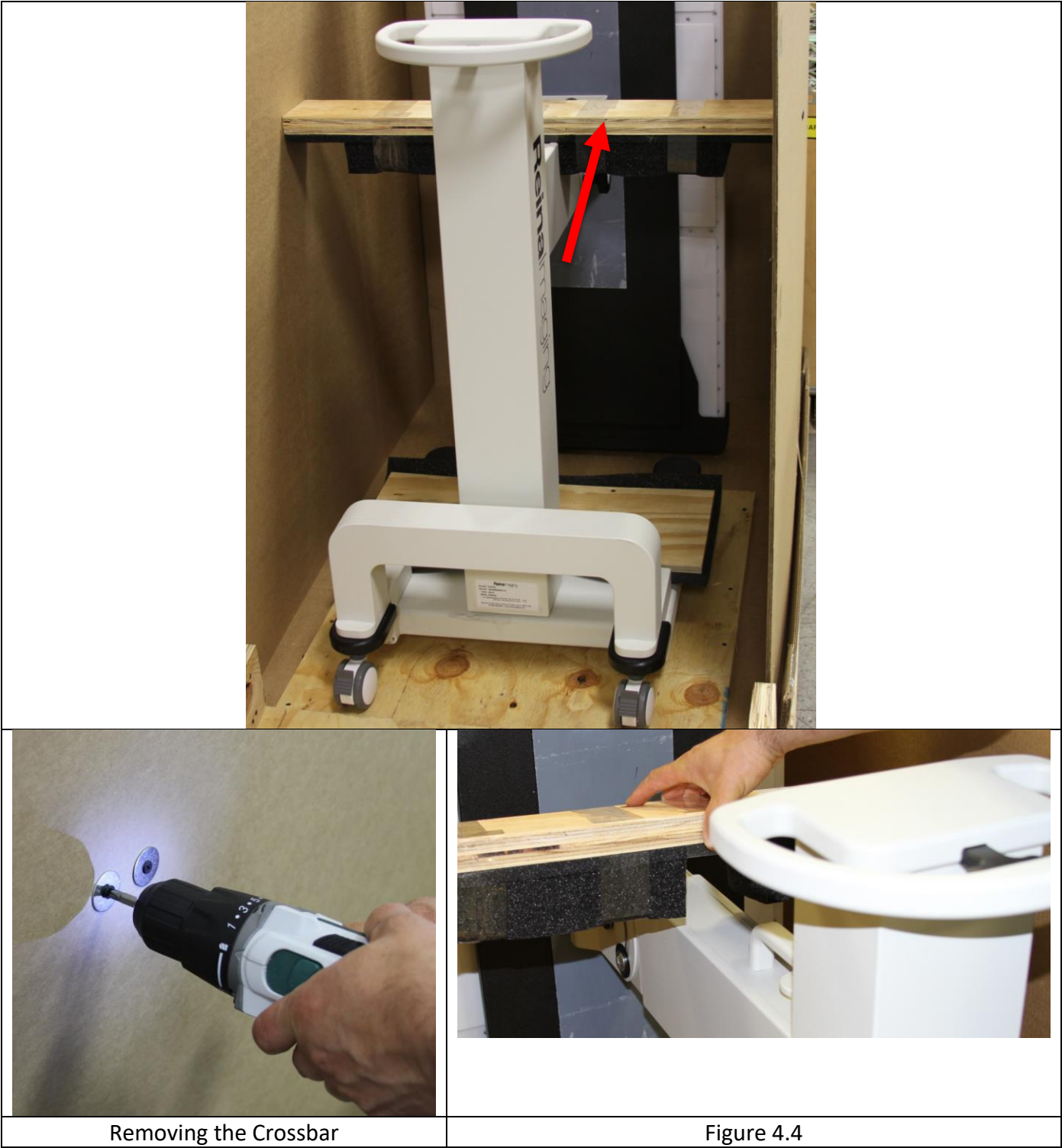




4.3. Remove the four screws from each side of the container and carefully lower the ramp.



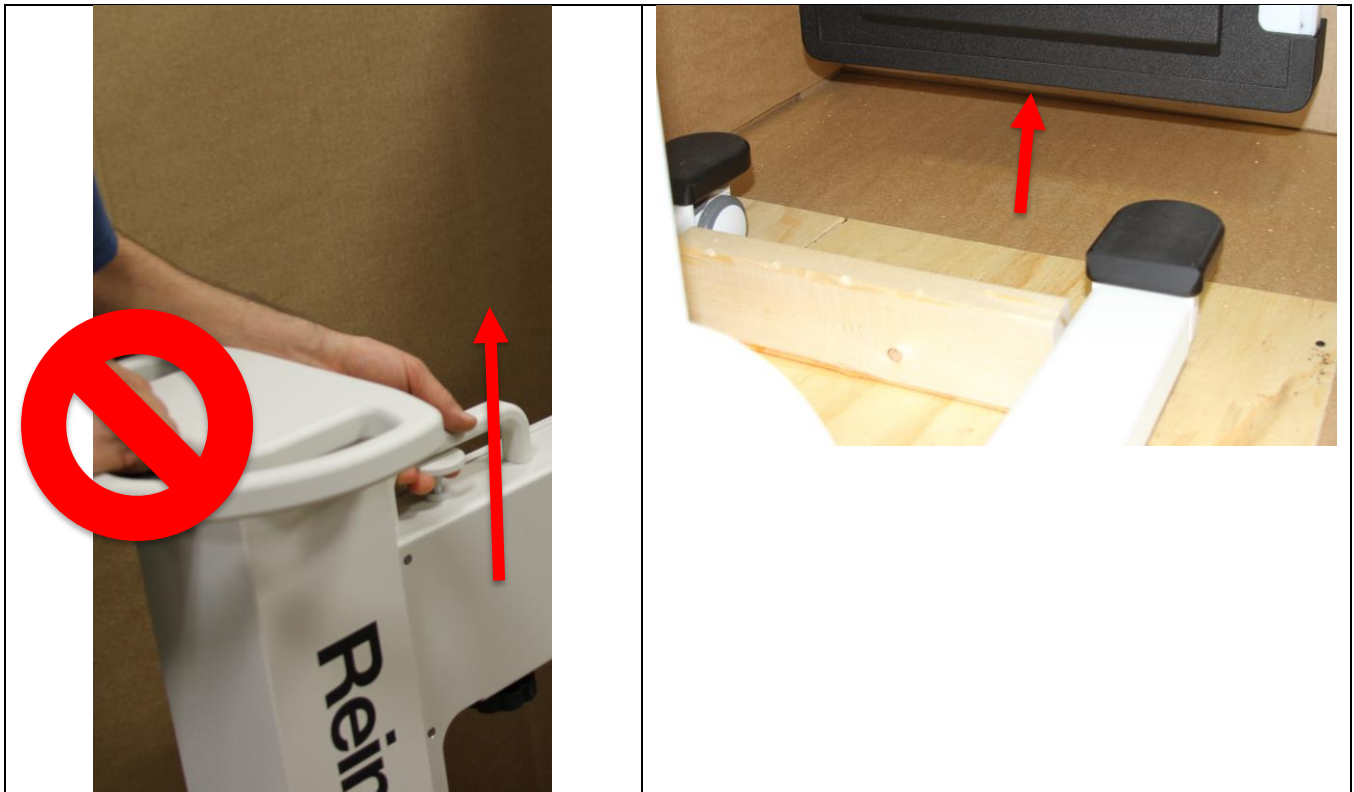
4.4. Remove the crossbar from the top of the horizontal arm by removing the two retaining screws from each side of the container.



4.5. Remove the plywood brace from the top of the wheeled base.



4.6. Raise the detector mount high enough to clear the bottom bracing using the **horizontal arm control only, never the pneumatic piston** (see 6.2 and Warning on page 12), unlock the wheels and carefully wheel the POSPCO-DRXL off the pallet and down the ramp taking care to control momentum by holding the top handle.





Wheel the POSPCO-DRXL Down the Ramp

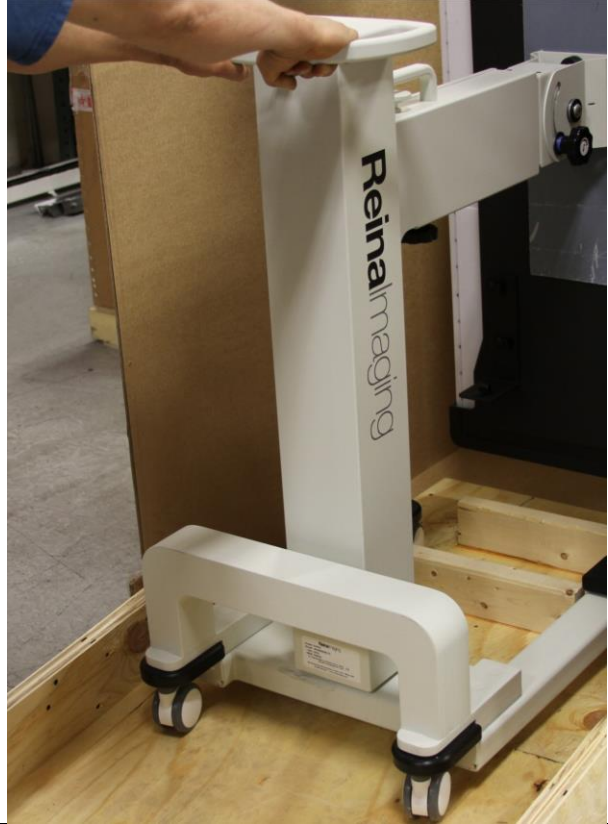


Figure 4.6

Installation Precautions:

- The unit is pre-assembled but take care in uncrating, as the device is very heavy.
- Follow all warning labels on the unit and these instructions.
- Do not attempt to adjust height by means of the pneumatic lift-assist prior to installation of the Long-length DR Panel onto the detector mount.
- Failure to adhere to the Precautions listed above may result in injury to user!



WARNING!

The two-tiered nested column's lift-assist mechanism employs a forceful pneumatic piston. Attempting to adjust the height of the nested column before installing the Long-length DR Panel could cause the top of the nested column to be driven upward with high force and velocity, possibly causing injury to the torso, arms, neck, face or head of the user. Do not actuate the pneumatic piston without the Long-length DR Panel mounted. Keep head and torso away from the unit during adjustment for uncrating.

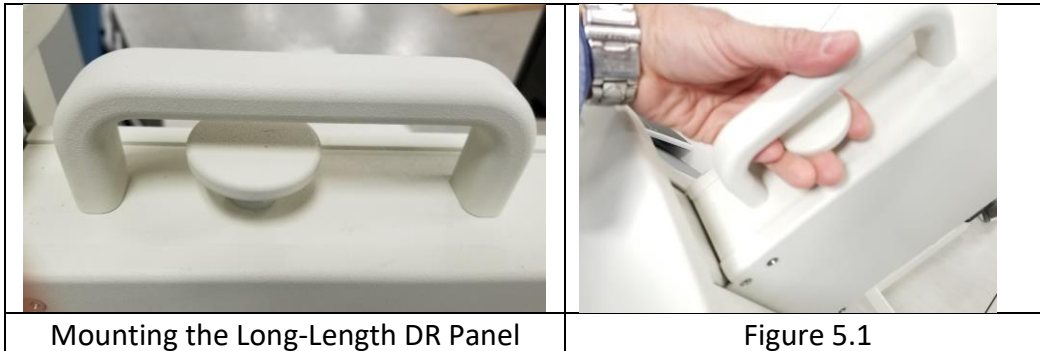


CAUTION!

Before rotating the detector mount to the landscape orientation to mount the Long-length DR Panel, raise the horizontal support arm to its uppermost position or the detector mount can hit the floor.

5. Installation of the Long-length DR Panel onto the Detector Mount

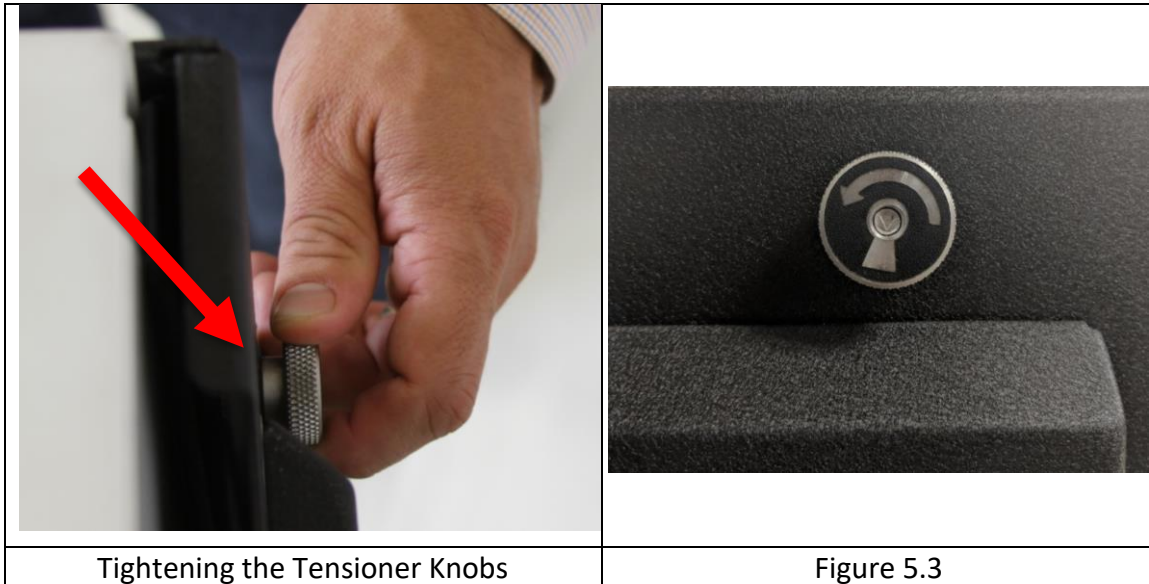
- 5.1. Raise the horizontal arm to its uppermost position by pulling up on the lever and pulling upward on the handlebar. Rotate the detector mount clockwise into the landscape position and lower the horizontal support arm to its lowermost position by pulling up on the lever and pushing down on the handlebar.



- 5.2. Install the Long-length DR Panel into the detector mount by sliding it between the support guides in the landscape orientation.



- 5.3. Tighten the four tensioner knobs on the rear of the detector mount by turning them *anti-clockwise* until all are tight. Tighten top and bottom pairs evenly by turning first one then the other a few turns to keep the pressure clamp even. The anti-scatter grid can be mounted in front of the detector for clinical use or stored behind the detector when not in use. To maintain proper performance tuning all units delivered without an anti-scatter grid will have a mock-up grid. **Do not discard the mock-up grid until a live anti-scatter grid is installed. It must be mounted behind the detector to maintain balance.**

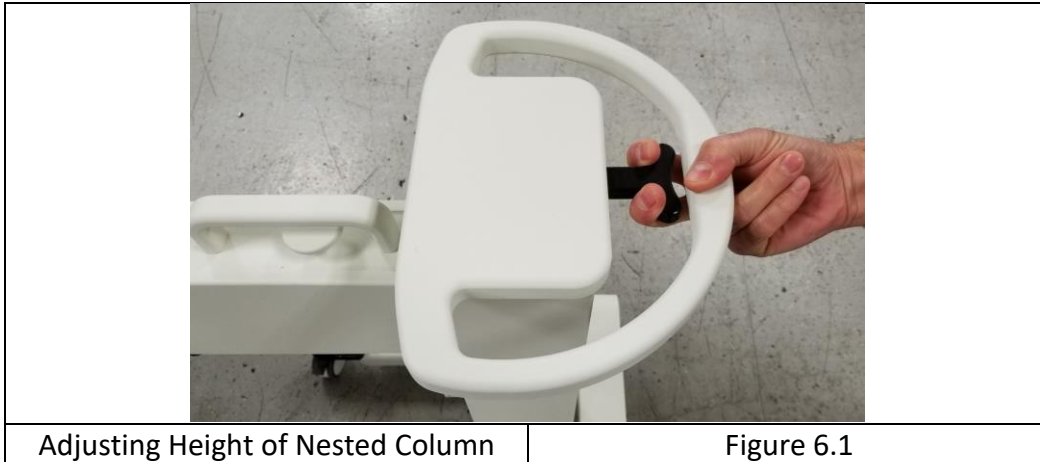


CAUTION!

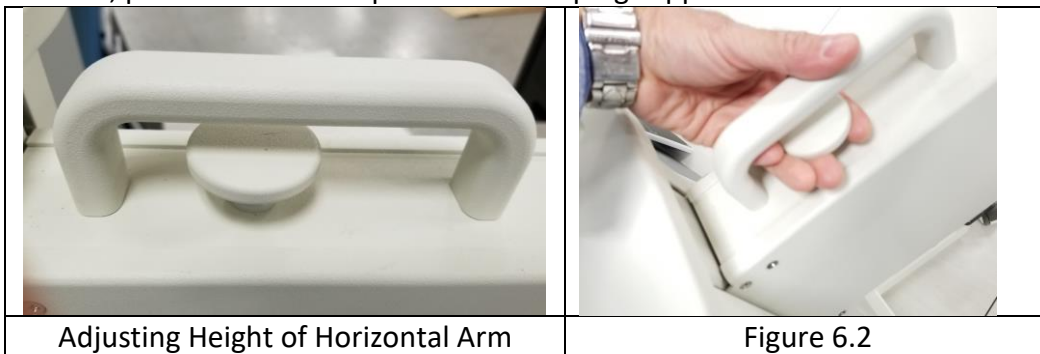
This device is designed to have articulating movement with a wide range of motion. There are no sensors, limit switches or physical stops to avoid collisions with walls, floors, objects in the room or people. The device itself or the Long-length DR Panel may be damaged by collisions. User or patient injury could occur if proper care is not taken while moving and positioning the device. Avoid pinching, squeezing, crushing or collision by moving the device slowly and carefully during operation.

6. User Operations: Height Adjustment, Rotation, Extension and Tilt

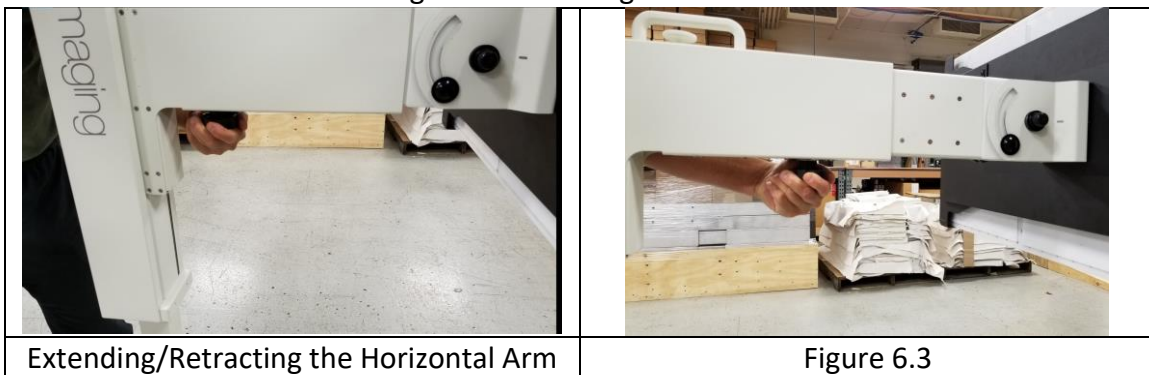
- 6.1. Height Adjustment of Nested Column - To actuate the nested column's lift-assist mechanism and raise or lower the column height, pull the lever at the top of the rear side of the nested column.



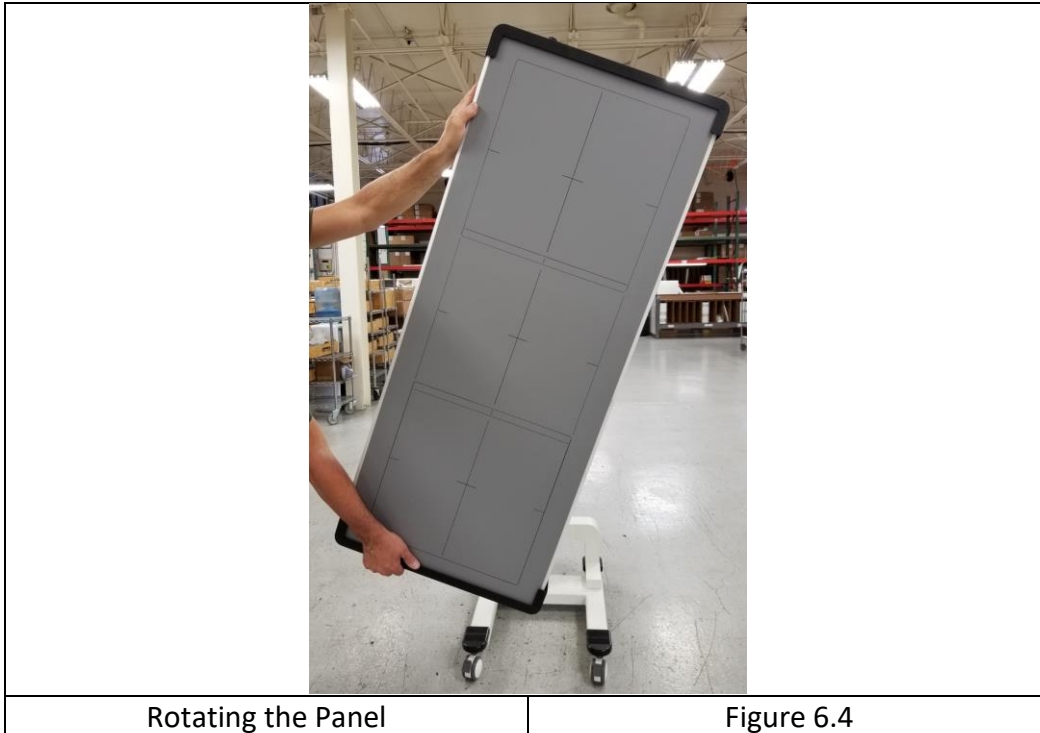
6.2. Height Adjustment of Horizontal Arm - To raise or lower the telescopic support arm, pull the lever on top of the telescoping support arm.



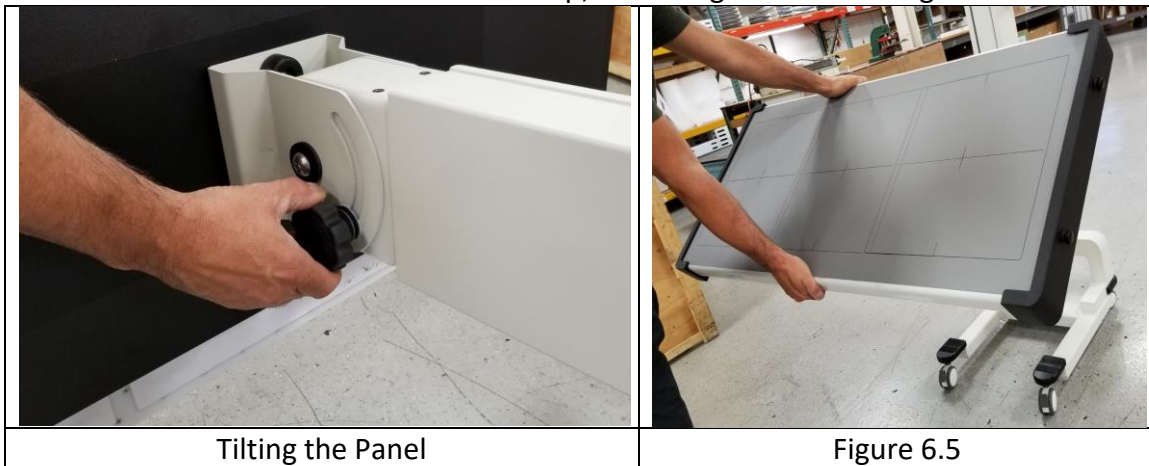
6.3. Extend and Retract the Horizontal Arm – To extend/retract the telescopic support arm, loosen the locking nut and draw out/push in the extensible horizontal arm and retighten the locking nut.



6.4. Panel Rotation - To turn Long-length DR Panel from portrait to landscape orientation, rotate the detector mount clockwise into the 90-degree detent and turn back to portrait orientation rotate the detector mount anti-clockwise into the 0-degree detent.



6.5. Panel Tilting - To move the Long-length DR Panel into the horizontal (undertable) position, loosen the locking nut at the end of the telescoping support arm and tilt the detector mount backwards toward the column until it rests on the rubber stop, taking care to support the Panel with two hands and not to let it fall onto the rubber stop, then retighten the locking nut.



6.6. Moving the Device – Use the POSPCO-DRXL on flat, level surfaces only. When moving the device across a threshold higher than 1/2"/1.25cm, pull the device slowly backwards over the threshold taking care not to cause high impact force to the wheels and wheel stems, as they could become damaged.

7. Maintenance & Cleaning

- 7.1. Maintenance - The unit does not require maintenance under normal operating conditions. If the unit is not performing as expected, contact Reina Imaging for assistance. Do not service the POSPCO-DRXL during a patient examination.
- 7.2. Cleaning - Surfaces can be cleaned using standard disinfection products. Do not submerge components. Do not autoclave components.

8. Disposal

- 8.1. The POSPCO-DRXL contains no hazardous materials and should be recycled or disposed of in accordance with local regulations.

ALL QUESTIONS AND CONCERNS SHOULD BE FORWARDED TO:

REINA IMAGING

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9. Changes to this document:

Date	Revision	Description of Changes
04.19.2021	A	Released