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Startup Primer

Mobile X-Ray Unit

REVISION HISTORY

REVISION	DATE	REASON FOR CHANGE
0	DEC 06, 2019	First Edition (Draft).
1	MAR 17, 2020	First Edition.
2	SEP 21, 2020	Specifications and general update (text and illustrations).
3	APR 05, 2021	Sections updated: 'Factors', 'Tools and Test Equipment' and 'Unpacking'.
4	SEP 08, 2021	Sections updated: Accuracy of Radiographic Parameters, Factors, Tools and Test Equipment, Unpacking.
5	DEC 20, 2021	Sections updated for amendments: 'Factors' and 'Power Line Connection'.
6	SEP 13, 2022	New Section: Repackaging. Updated Sections: HV Frequency, Unpacking, Power Line Connection.

This Document is the English original version, edited and supplied by the manufacturer.

The Revision state of this Document is indicated in the code number shown at the bottom of this page.

ADVISORY SYMBOLS

The following advisory symbols will be used throughout this manual. Their application and meaning are described below.

DANGERS ADVISE OF CONDITIONS OR SITUATIONS THAT IF NOT HEEDED OR AVOIDED WILL CAUSE SERIOUS PERSONAL INJURY OR DEATH.

ADVISE OF CONDITIONS OR SITUATIONS THAT IF NOT HEEDED OR AVOIDED COULD CAUSE SERIOUS PERSONAL INJURY, OR CATASTROPHIC DAMAGE OF EQUIPMENT OR DATA.

Advise of conditions or situations that if not heeded or avoided could cause personal injury or damage to equipment or data.

Note ☞

Alert readers to pertinent facts and conditions. Notes represent information that is important to know but which do not necessarily relate to possible injury or damage to equipment.

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SECTION 1 PRELIMINARY NOTES

Note ☞

This Mobile Unit has been configured, calibrated and tested by the Manufacturer. No service intervention is necessary as the Unit is ready for normal operation.

THE OPERATION MANUAL MUST BE READ AND UNDERSTOOD BEFORE UNPACKING/SERVICING THE UNIT.

DRIVE THE UNIT WITH THE ARM IN PARKING POSITION. WHEN NOT IN PARKING POSITION, MOVEMENT VELOCITY IS REDUCED SIGNIFICANTLY.

FOR SAFETY REASONS, DO NOT DRIVE THE UNIT OVER SURFACES WITH AN INCLINATION ANGLE >8º.

TO AVOID THE RISK OF OVERBALANCE, THE MOBILE UNIT MUST NOT BE IN STATIONARY POSITION ON SURFACES WITH THE FOLLOWING INCLINATION ANGLES:

- **WITH THE ARM IN PARKING POSITION: >10º**
- **WITH THE ARM OUT OF PARKING POSITION: >5º**

IF FOR ANY REASON THE UNIT EXCEEDS THE INDICATED INCLINATION ANGLES AND LOSES THE VERTICALITY, THE ARM COULD RISE SHARPLY TO THE TOP OF THE COLUMN; THIS COULD CAUSE PERSONAL INJURY AND/OR DAMAGE TO THE EQUIPMENT.

MONITOR THE SYSTEM MOVEMENTS WITH SPECIAL CARE. AVOID ANY IMPACT OF THE UNIT WITH WALLS, FURNITURE OR OTHER ELEMENTS IN THE ROOM THAT MAY CAUSE DAMAGE TO THE EQUIPMENT.

DO NOT DRIVE THE MOBILE UNIT OVER WET SURFACES AND / OR IMPREGNATED WITH CLEANING PRODUCTS (SPECIALLY BLEACH, AMMONIA, ETC), THE UNIT COULD SLIP AND MOMENTARILY LOSE CONTROL. IT ALSO MAY BLEACH THE WHEELS CAUSING DAMAGES TO THE FLOOR.

MONITOR WITH SPECIAL CARE THE PATIENT POSITION OR ANYONE PRESENT, TO AVOID INJURY CAUSED BY UNIT MOVEMENTS.

INTRAVENOUS TUBING, CATHETERS AND OTHER PATIENT CONNECTED LINES SHOULD BE ROUTED AWAY FROM MOVING EQUIPMENT.

ALWAYS USE THE HANDGRIPS OF THE HEAD-ASSEMBLY TO CONTROL AND DRIVE THE COLUMN AND ARM MOVEMENTS, NEVER PUSH DIRECTLY ON THE HEAD-ASSEMBLY OR COLLIMATOR.

DUE TO THE WEIGHT OF THE MOBILE UNIT, THE BRAKING DISTANCE AT FULL SPEED ON A SMOOTH SURFACE IS 1 METER MAXIMUM.

Motion Controls are only enabled when the System is ON.

Place the unit in the Parking position right after turning the system OFF since positioning controls will remain enabled for 15 seconds approximately.

SECTION 2 TECHNICAL SPECIFICATIONS

2.1 GENERATOR SPECIFICATIONS

2.1.1 MINIMUM CURRENT TIME PRODUCT (mAs)

- Minimum Current Time Product obtained at 0.1 s is 1 mAs.
- Minimum Current Time Product within the specified ranges of compliance for linearity and constancy is 0.1 mAs.

2.1.2 ACCURACY OF RADIOGRAPHIC PARAMETERS

Note ☞ *Specified accuracy does not include test equipment accuracy. The tolerance of the accuracy of parameter values should be better than the values in the table below.*

PARAMETERS		ACCURACY
RAD	kV	± (3% + 1 kV)
	mA	± (4% + 1 mA)
	Exposure Time	± (2% + 0.1 ms)

2.1.3 HV FREQUENCY

The operating HV Frequency of this Generator is 100 kHz / 140 kHz.

2.2 FACTORS

Maximum Power kW *(Refer to Identification Label)*	**20 kW**	**32 kW**	**40 kW**	**50 kW**
kVp Range	40 kVp to 150 kVp			
	From 40 kVp to 150 kVp in 1 kVp steps			
mAs Range	Product of mA x Time values from 0.1 mAs to 500 mAs			
mA Range	10 to 400	10 to 500		10 to 500 *(10 to 630)**
	From 10 mA to 500 mA or 630 mA, through the following mA stations: 10, 12.5, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160, 200, 250, 320, 400, 500, 630. *(Depending on the Generator model)* **(with X-ray Tube Insert XRR3331)*			
Exposure Time Range	From 1 millisecond to 10 seconds through the following Time stations: Milliseconds: 1, 2, 3, 4, 5, 6, 8, 10, 12, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160, 200, 250, 320, 400, 500, 630, 800. Seconds: 1, 1.25, 1.6, 2, 2.5, 3.2, 4, 5, 6.3, 8, 10. Maximum Exposure Time Range for DR: From 1 millisecond to 2.5 seconds.			
Power Output (@ 0,1s)	150 kVp @ 125 mA 125 kVp @ 160 mA 100 kVp @ 200 mA 80 kVp @ 250 mA 62 kVp @ 320 mA 50 kVp @ 400 mA	150 kVp @ 200 mA 128 kVp @ 250 mA 100 kVp @ 320 mA 80 kVp @ 400 mA 64 kVp @ 500 mA	150 kVp @ 250 mA 125 kVp @ 320 mA 100 kVp @ 400 mA 80 kVp @ 500 mA	150 kVp @ 320 mA 125 kVp @ 400 mA 100 kVp @ 500 mA *(79 kVp @ 630 mA)**
Duty Cycle	18 exposures per hour at 100 kV, 200 mA, 320 ms (lapse time between exposure: 3 min.)	18 exposures per hour at 120 kV, 250 mA, 250 ms (lapse time between exposure: 3 min.)		
	Maximum leakage radiation depends on the type of X-ray Tube (<0.88 mGy/h)			
Ripple Factor	< 4% (constant voltage)			
Collimator	Manual Collimator, with different options depending on Mobile version: Mobile unit with 3-Sections Arm: - Manual Collimator with double Laser, Motorized Filters and ready for both Estimated Dose (EDAP) option and DAP Chamber option Mobile unit with 4-Sections Arm and Head-Assembly Console: - Manual Collimator with front and rear side Knobs, double Laser, Motorized Filters and ready for both Estimated Dose (EDAP) option and DAP Chamber option			
X-ray Tube	*Refer to Section 2.3*			

Maximum Power kW *(Refer to Identification Label)*	**20 kW**	**32 kW**	**40 kW**	**50 kW**
Power Line Operation (Depends on Region Configuration)	100–240 V~ – Single-Phase 50/60 Hz Automatic Line Compensation ±10% V~ Connection to standard outlets with GND that complies with local regulations			
	The Power Line Installation should be provided with a Differential of 30 mA Sensitivity Power Line Impedance must be less than the maximum indicated value: 300 mΩ for 100 V~, 1 Ω for 110 V~, 2.5 Ω for 230 V~, 2.6 Ω for 240 V~			
Power Line Cable	Total Cable Length: 5 m Usable Cable Length: 4.75 m			
Maximum Input Power	1.2 kVA			
Operation independent from mains supply (Stand-Alone)	Standard			
Battery Capacity	Optimized Battery Management for extended Battery life. Charge Capacity: 15 Ah. The required time for the Batteries to be 100% charged is approximately: 8 hours, (80% of the total charge is available after 4 hours charging; approximately 20% per hour). Total Energy storage Capacity: 5760 Wh With the Batteries fully charged and disconnected from the mains, the Mobile system can be in continuous movement during approximately 25 km, at 5.5 km/h Once the exposure capacity is exhausted, the system motion is enabled for 1 km. The Mobile Unit in Stand-Alone (disconnected from the mains) will be 100% discharged from full charge in approximately: 11 hours.			
Radiation Output Accuracy (Reproducibility related to loading factors)	C.V. (Coefficient of variation) ≤ 0.05			
Maximum Symmetrical Radiation Field	Measured at 75 kV: 220 mm in “X” axis and 240 mm in “Y” axis. Measured at 125 kV: 210 mm in “X” axis and 250 mm in “Y” axis. *(Test performed at a distance from the Focal Spot of 1200 mm, in accordance with IEC 60806:1984).*			
Maximum Heat Output	260 W (1130 BTU/h)			
Storage / Transport Environmental Conditions	Temperature range of –10ºC to 40ºC Relative Humidity range of 20% to 90% Atmospheric Pressure range of 700 hPa to 1060 hPa			
Operating Environmental Conditions	Temperature range of 10ºC to 35ºC (*the recommended temperature for a longer life cycle of batteries is around 22ºC*) Relative Humidity (no condensing) range of 30% to 75% Atmospheric Pressure range of 700 hPa to 1060 hPa			

2.3 X-RAY TUBE INSERT

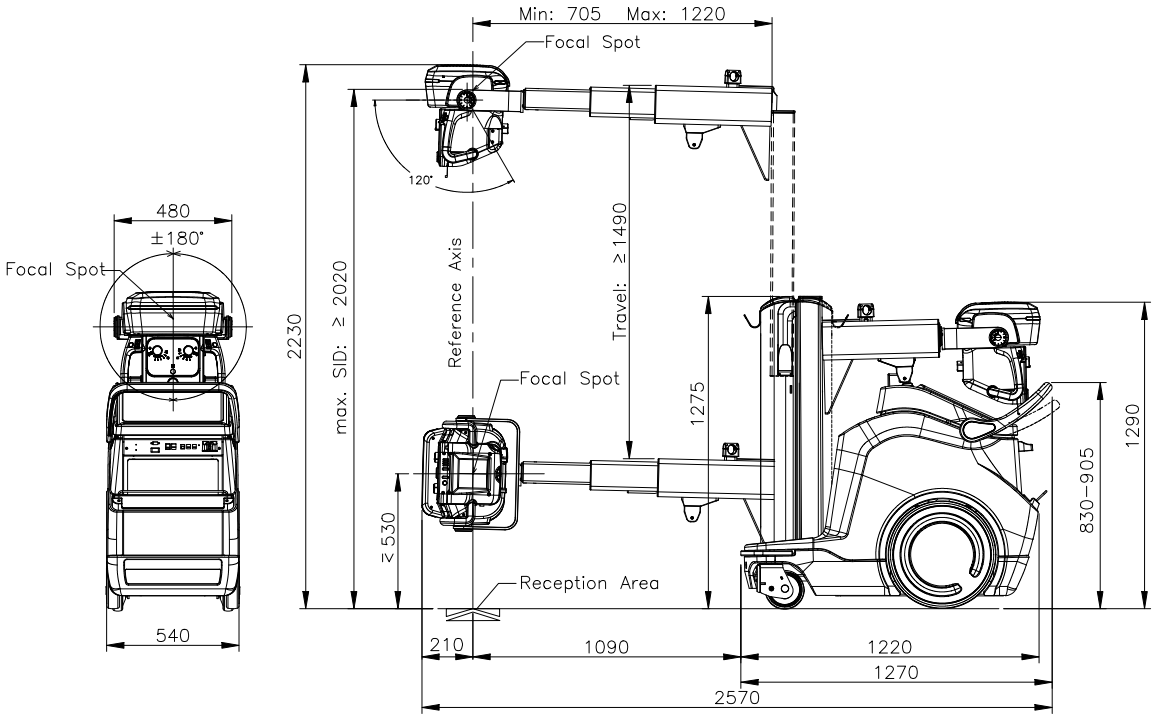
Maximum Power kW *(Refer to Identification Label)*	**20 kW**	**32 kW**	**40 kW**	**50 kW**
X-ray Tube Inserts	E7886 Low Speed / High Speed			E7886 High Speed
	XRR3331 Low Speed / High Speed			

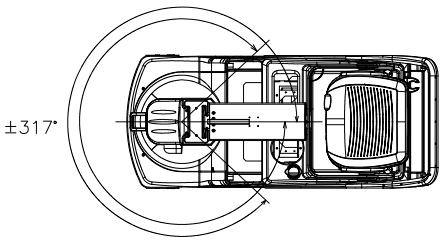
E7886	Low Speed / High Speed – Rotating Anode Focal Spots: 0.7 mm / 1.3 mm Anode kHU / kVp: 300 kHU / 150 kVp Target Angle: 16° Inherent Filtration of X-ray Source (Tube + Collimator): refer to Identification Label
XRR-3331	Low Speed / High Speed – Rotating Anode Focal Spots: 0.6 mm / 1.2 mm Anode kHU / kVp: 300 kHU / 150 kVp Target Angle: 12° Inherent Filtration of X-ray Source (Tube + Collimator): refer to Identification Label

2.4 PHYSICAL CHARACTERISTICS

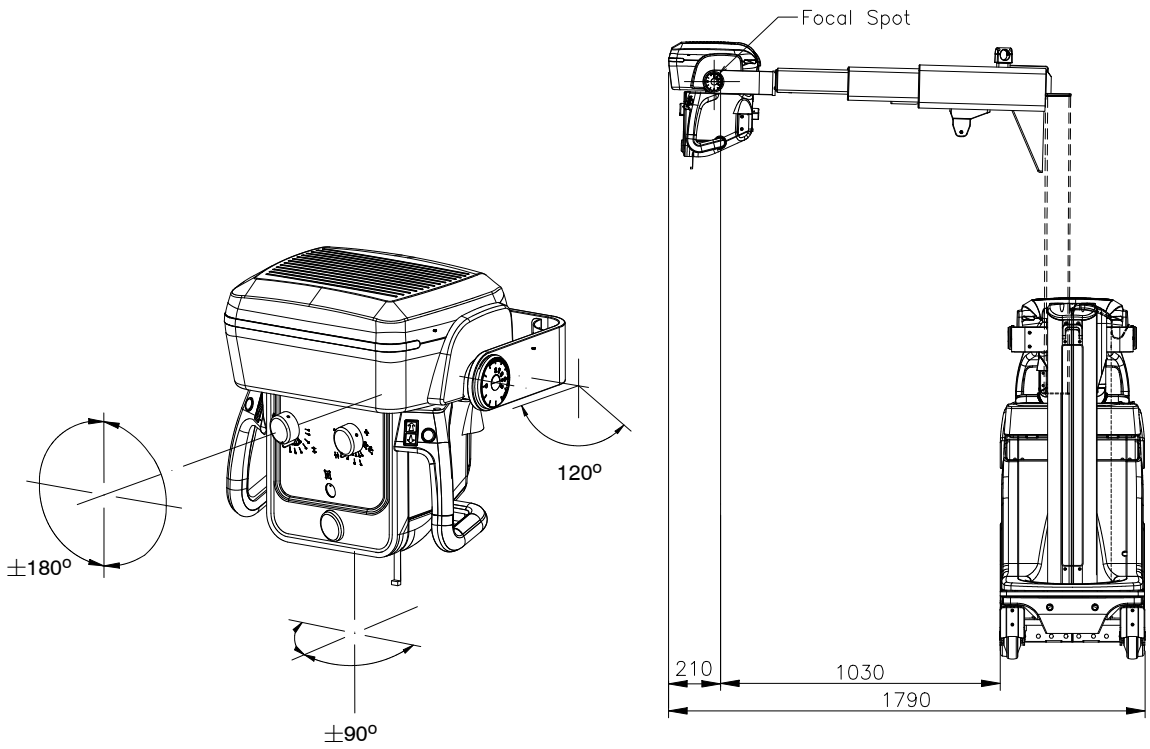
2.4.1 MOBILE UNIT WITH 3-SECTIONS ARM

LENGTH	WIDTH	HEIGHT	WEIGHT
minimum 1270 mm (50”) maximum 2570 mm (101.2”)	540 mm (21.3”)	minimum 1290 mm (50.8”) maximum 2230 mm (87.8”)	520 kg (1145 lbs) (without Detectors and/or Accessories)





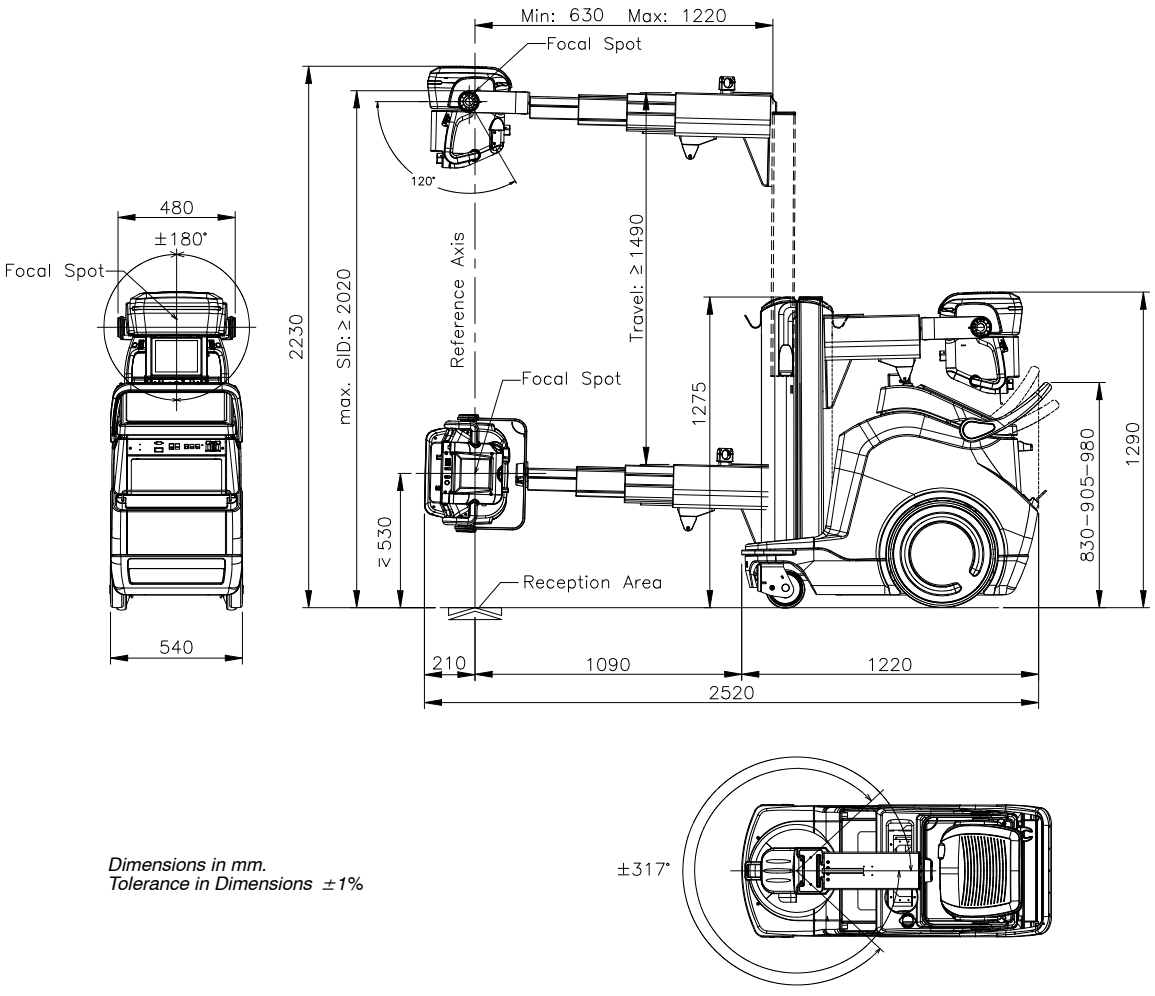
Dimensions in mm.
Tolerance in Dimensions ±1%



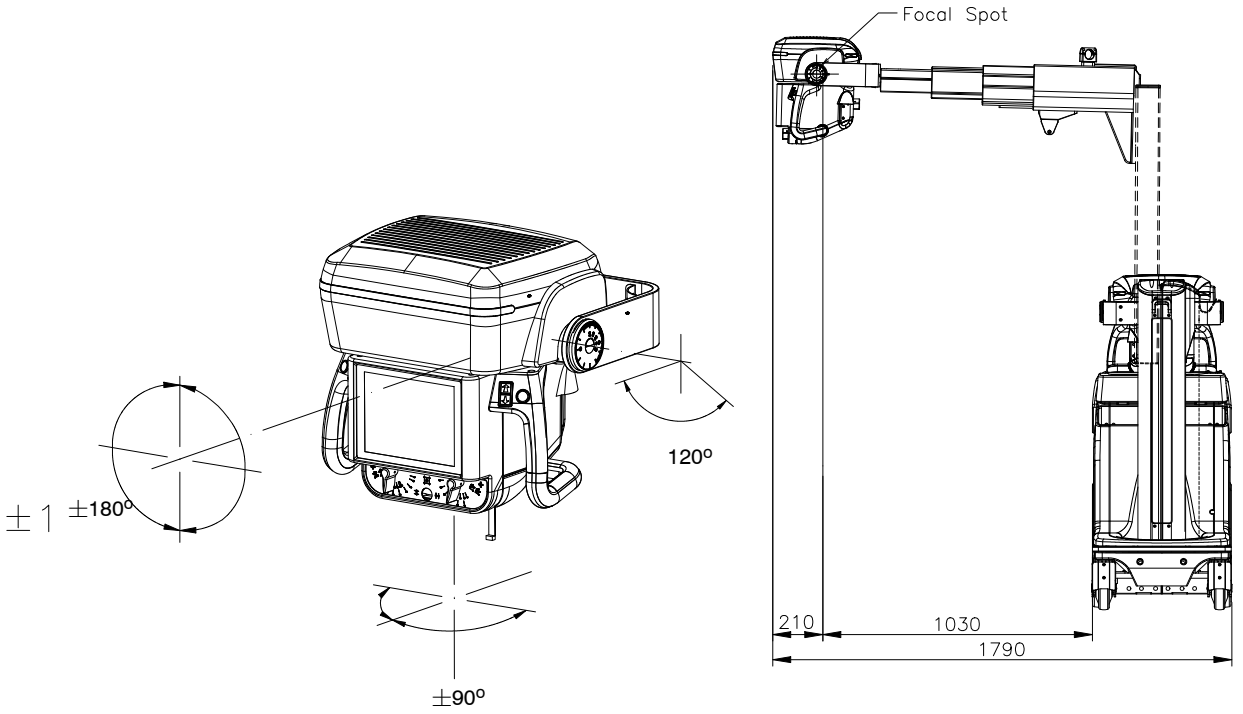
Dimensions in mm.
Tolerance in Dimensions ±1%

2.4.2 MOBILE UNIT WITH 4-SECTIONS ARM

LENGTH	WIDTH	HEIGHT	WEIGHT
minimum 1220 mm (48”) maximum 2520 mm (99.2”)	540 mm (21.3”)	minimum 1290 mm (50.8”) maximum 2230 mm (87.8”)	520 kg (1145 lbs) (without Detectors and/or Accessories)



Dimensions in mm.
Tolerance in Dimensions ±1%



Dimensions in mm.
Tolerance in Dimensions ±1%

SECTION 3 UNPACKING AND INSTALLATION

3.1 TOOLS AND TEST EQUIPMENT

Note ☞ *Access to the Service Mode when necessary, through the Main Screen and/or the Head-Assembly Monitor (if available), as described in the Configuration and Calibration Chapter of the Service Manual.*

The following tools and equipment are required for Unpacking:

- Standard service engineers tool kit including Metric Socket Wrench set.
- Gloves.
- Pallet forklift (minimum 1500 kg lift power).
- Crowbar.

The following tools and test equipment are required for Configuration, Calibration, Troubleshooting and/or Maintenance:

- Standard service engineers tool kit including Allen and Torx key sets.
- Antistatic Kit.
- Alcohol cleaning agent.
- Gloves.
- Personal Dosimeter.
- Digital Multimeter.
- Digital mAs Meter.
- Non-invasive kVp Meter.
- Oscilloscope (Tektronics 486 or similar).
- Calculator.
- Dynamometer (for Motor Chain adjustment).
- Auxiliary Table, Ladder, Level (for some procedures related to the Column, Arm and Head-Assembly).

The following tools are required for Collimator adjustment:

- Collimator Test Tool (model RMI 161B).
- Beam Alignment Test Tool (model RMI 162A).
- Light Meter (Standard).

3.2 UNPACKING

Note ☞

The Unit is shipped in a wooden crate to facilitate the transport and storage. Upon receipt of the Unit, inspect the crating carefully for signs of possible shipping damage. If damage is found, immediately notify the carrier or agent.

WARNING

BEFORE UNPACKING THE UNIT, PLACE THE SHIPPING CRATE ON A FLAT SURFACE AND KEEP IN MIND THE PRELIMINARY NOTES IN SECTION 1.

WARNING

DO NOT DISCARD ANY PACKING MATERIAL SUCH AS ENVELOPES, BOXES, BAGS UNTIL ALL PARTS ARE ACCOUNTED FOR AS LISTED ON THE PACKING LIST. THIS PACKING MATERIAL, SHIPPING CRATE AND METALLIC FRAMEWORKS WILL BE USED FOR REPACKAGING IF NECESSARY.

Note ☞

Although the Unit is shipped from the Factory with the Batteries charged, with the Unit OFF, plug it in and leave it sufficient time to completely charge. The recommended time is approximately 8 hours, until the Battery Charge Level Indicators on both columns stop scrolling and all the Indicators remain illuminated in green.

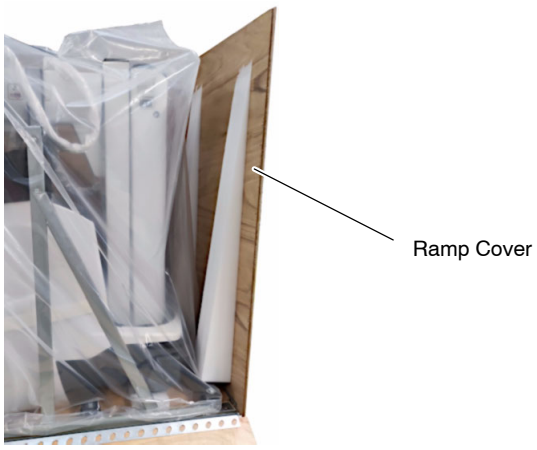
Note ☞

Follow the "Unpacking Instructions" document sent with the system, which indicates the tools and the steps necessary to dismount the mobile unit from the unpacking system.

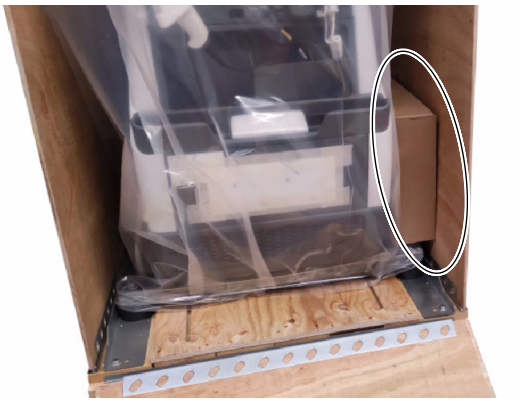
1. Open the shipping crate. Use a flat screwdriver to remove the upper metal clips in order to take out the top cover of the shipping crate.

2. Disassemble the rest of the crate covers by removing all metal clips.

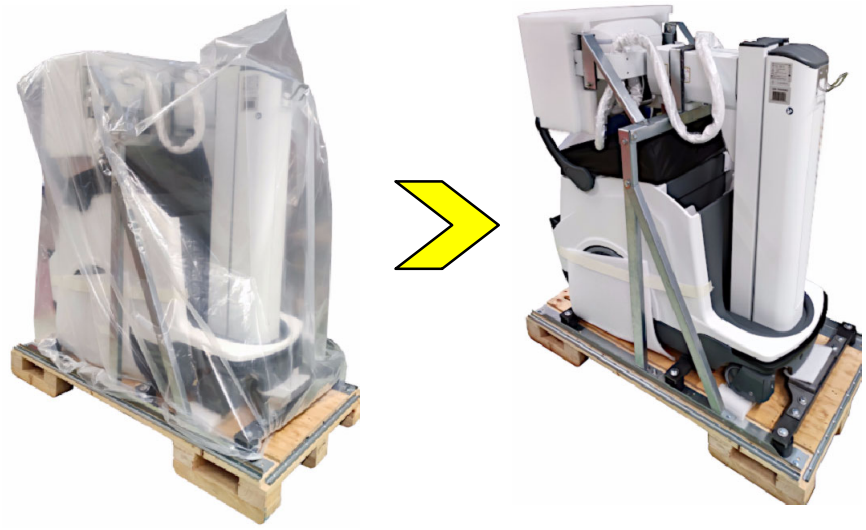
Note ☞ *One of the laterals is adapted to be used as a ramp for moving the Unit down. Put it aside for later use.*



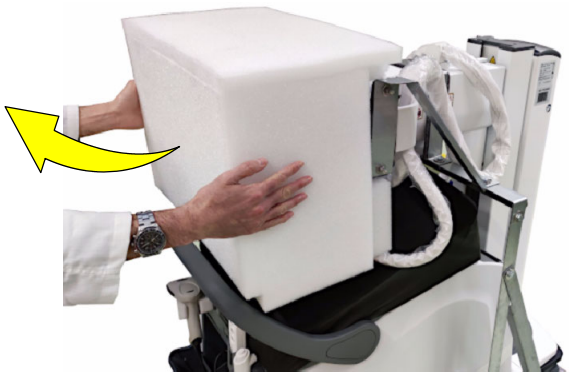
3. Take the box containing the documentation bag located on one side of the crate and put it aside.



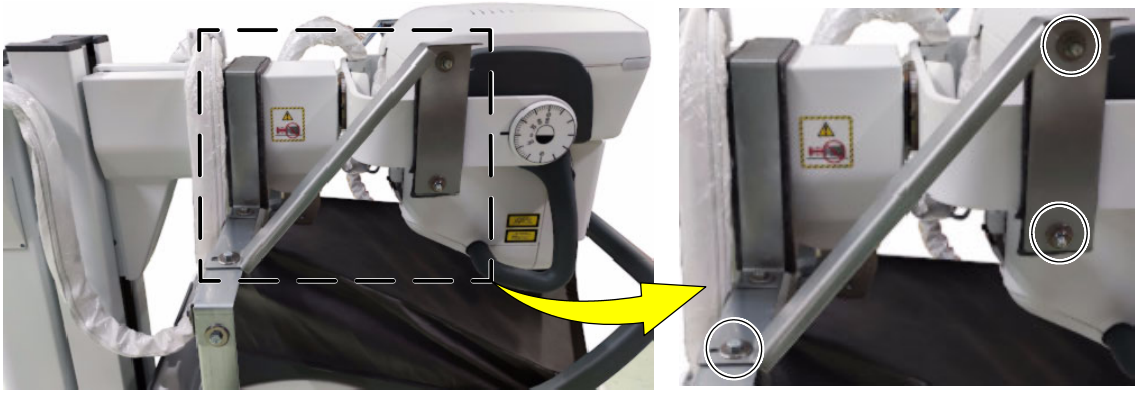
4. Remove the plastic packaging with an utility knife. Take care when cutting the plastic packaging in order to avoid damaging the Unit.



5. Remove the foam cover of the Head-Assembly.



6. Remove the two metallic pieces that secure the Head-Assembly Support on both sides of the Unit. To do this, remove the three (3) screws indicated.

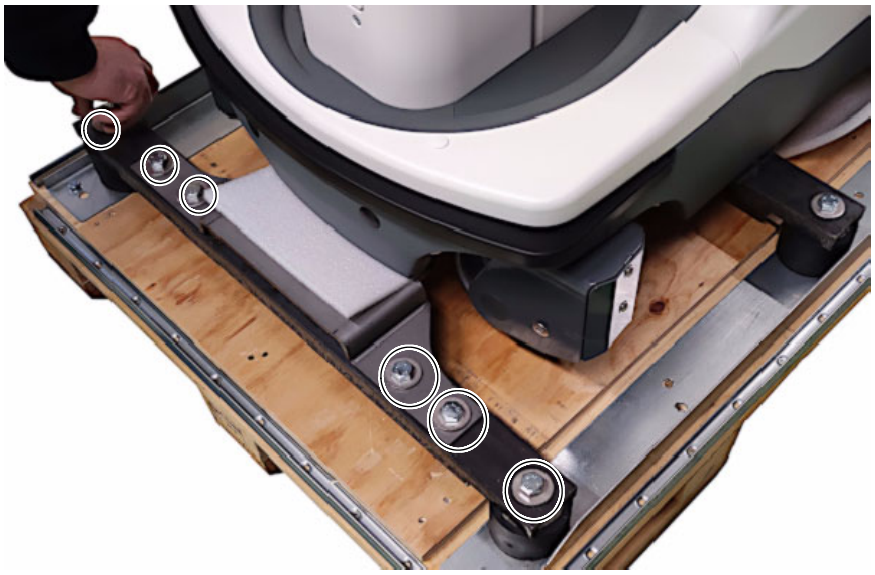


7. Disassemble the metallic framework that secures the Telescopic Arm by removing the indicated screws (3) from both sides of the Unit.

8. Remove the screen cover.

9. Remove the lateral metallic frameworks that held the previously removed pieces by removing the indicated screws from the both sides of the Unit.

10. Remove the six (6) M12 screws from the Front Support Frame.



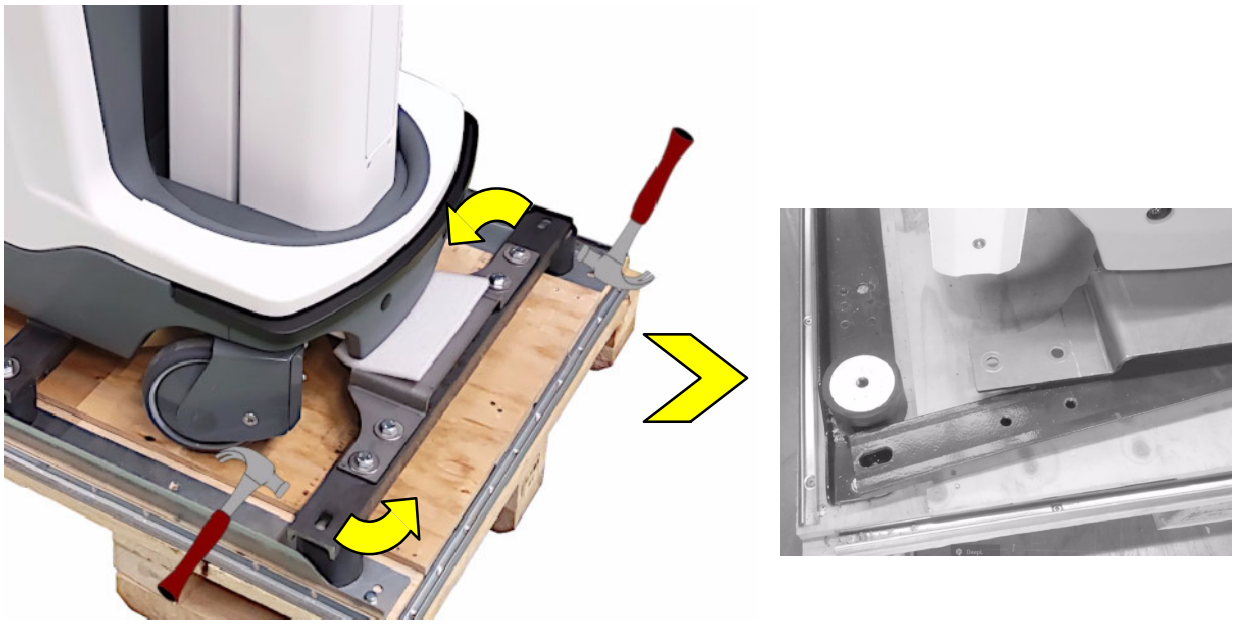
11. Remove the two (2) M12 screws from the Central Support Frame and the two (2) M12 screws from the Back Support Frame on both sides of the Unit.

12. Remove the foam protections from the front wheels.

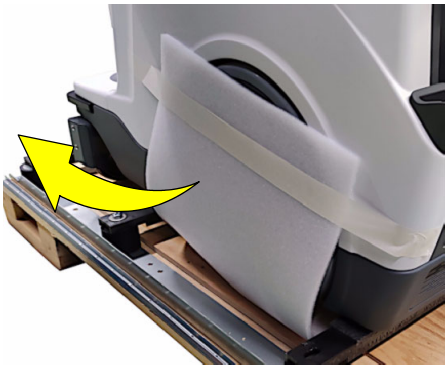
13. Remove the Central Support Frame, which is mounted on rubber bushings, using a hammer.

Note ☞ *A crowbar can be used to raise the Unit slightly from the front to make this operation easier.*

14. Remove the Front Support Frame which is mounted on rubber bushings. Use a hammer striking in opposite directions on each edge of the frame, then the front wheels will rest on the pallet surface.



15. Remove the foam protection from the back wheels by using the crowbar in order to slightly raise the Unit.



16. Pry to lower the Unit from the Back Support Frame by using the crowbar.

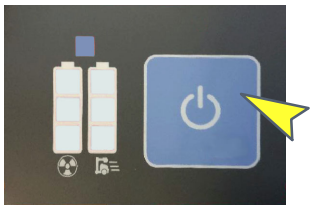
17. Turn on the Unit.

    a. For units with ON/OFF Button System: Press the ON/OFF button.

    b. For units with Keypad System: Enter the four-digit Access Code [1234] into the Keypad and press the OK button.

    c. For units with RFID System: Swipe the RFID Card (included in the documentation bag) over the reader.

a)



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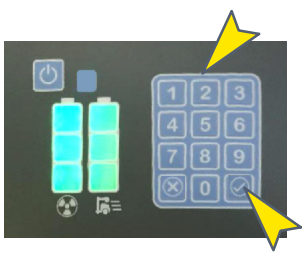
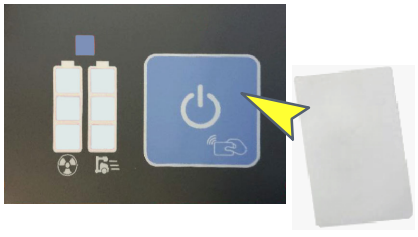


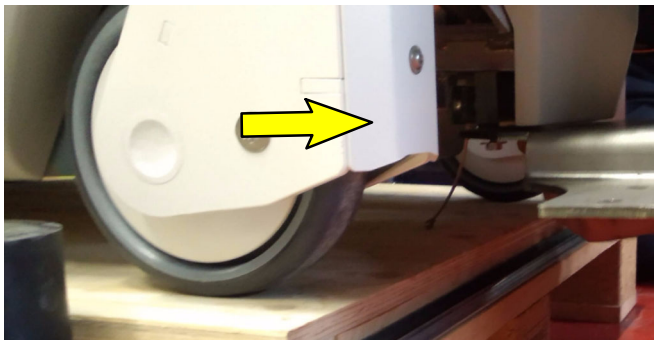
c)



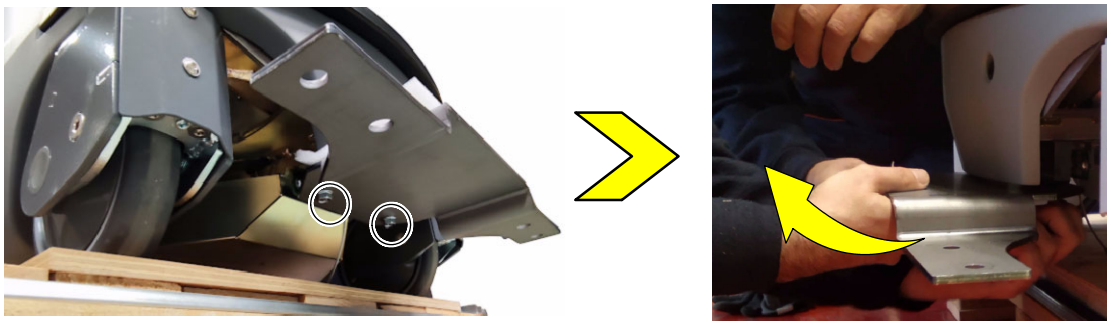
18. Place the ramp in the back side of the pallet (as a safety measure) and move carefully the Unit backwards to the edge of the pallet.

19. Turn off the Unit and remove the four (4) screws from the Back Support Frame, in order to dismount it from the Unit.

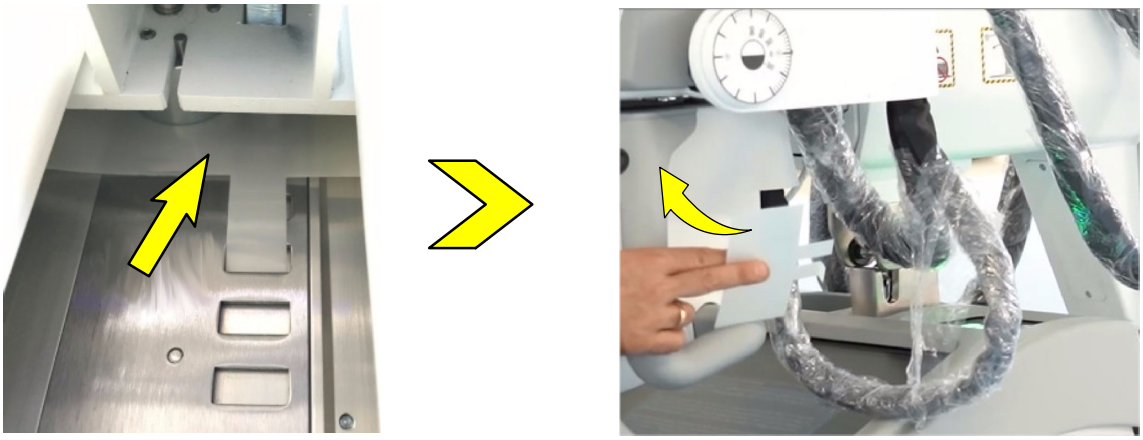
20. Place the ramp in the front side of the pallet (as a safety measure).Then, turn the Unit back on and move carefully the Unit forwards to the front edge of the pallet.



21. Remove two (2) screws from the Front Support Frame, in order to dismount it from the Unit.

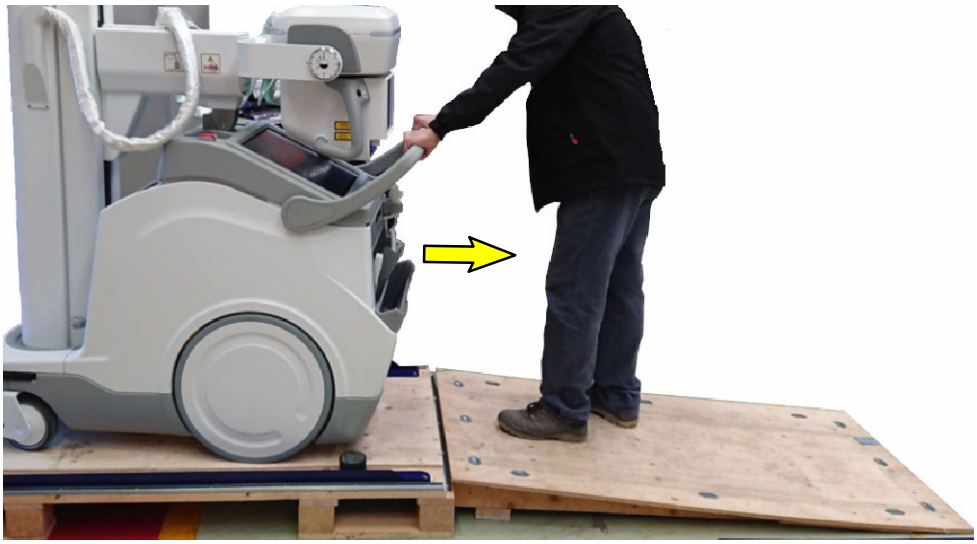


22. Pull out the mylar protection in the Column Brake and place the telescopic Arm in Parking Position.



23. Assemble the ramp to the pallet base towards one side of the pallet.

24. Turn the Unit back on and drive it out of the shipping pallet in the direction where the ramp is located.



25. Confirm that the part number and serial number match identification labels and inspect all pieces for visible damage. If damaged parts are found, repair or order replacements to prevent unnecessary delay.

26. Verify that all items on the customer order are present.

Note ☞

Before using the Mobile Unit for first time, configure the Time Zone in order to generate the system logs with the local time.
To do this, run the Service Tool / Service Mode and access "Operator Settings > Culture Settings > Time Zones".
For detailed information about the Time Zone configuration, please refer to Section Culture Settings in the "Configuration and Calibration" chapter of the Service Manual.

3.3 REPACKAGING

WARNING

FOR REPACKAGING, USE THE SHIPPING CRATE, METALLIC FRAMEWORKS AND PACKING MATERIAL SUCH AS ENVELOPES, BOXES AND BAGS STORED AFTER THE UNPACKING.

WARNING

BEFORE REPACKAGING THE UNIT, PLACE THE SHIPPING CRATE ON A FLAT SURFACE AND KEEP IN MIND THE PRELIMINARY NOTES IN SECTION 1.

Note ☞ *Ship the Unit with the Batteries charged, i.e. with the Unit OFF, plug it in and leave it sufficient time to completely charge. The recommended time is approximately 8 hours, until the Battery Charge Level Indicators on both columns stop scrolling and all the Indicators remain illuminated in green.*

Note ☞ *One of the laterals of the shipping crate is adapted to be used as a ramp for moving the Unit up or down.*

1. Verify that all items of the Mobile X-ray Unit are present (Remote Handswitch, Detectors, etc).

2. Assemble the ramp to the pallet base towards one side of the pallet.

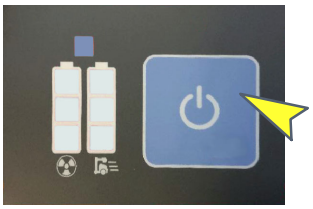
3. Turn on the Unit.

   a. For units with ON/OFF Button System: Press the ON/OFF button.

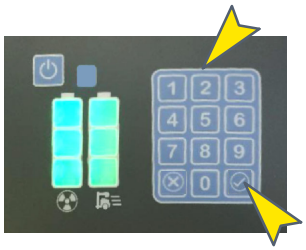
   b. For units with Keypad System: Enter the four-digit Access Code [1234] into the Keypad and press the OK button.

   c. For units with RFID System: Swipe the RFID Card (included in the documentation bag) over the reader.

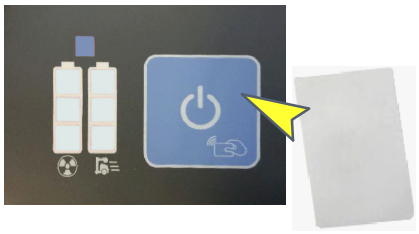
a)



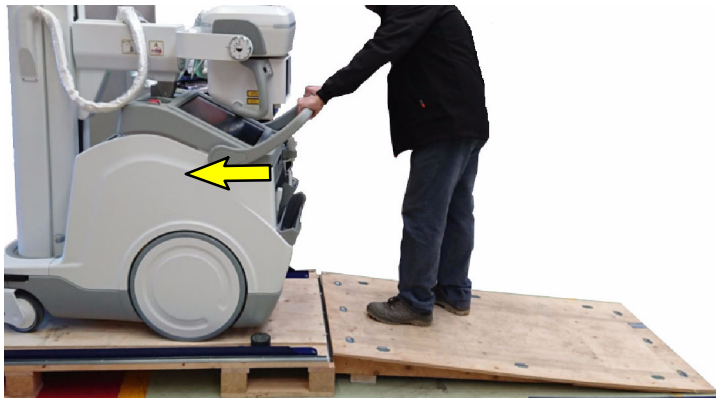
b)



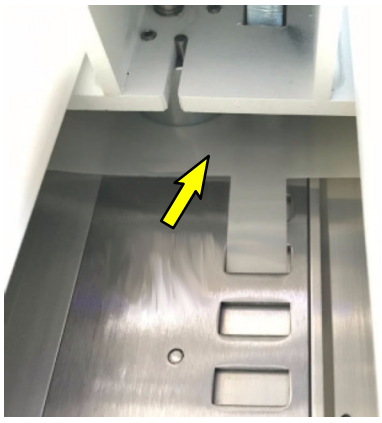
c)

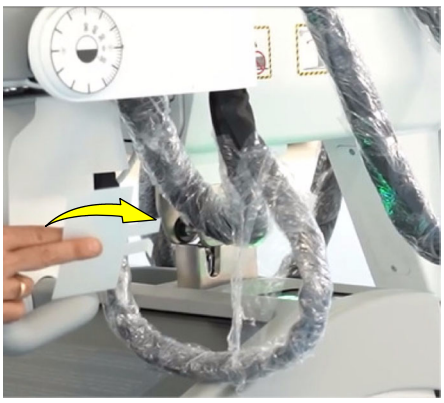


4. Place the Telescopic Arm in Parking Position and drive the Unit towards the shipping pallet using the ramp placed previously.

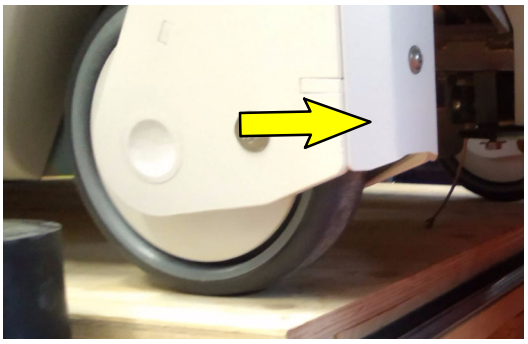


5. Place the mylar protection in the Column Brake.

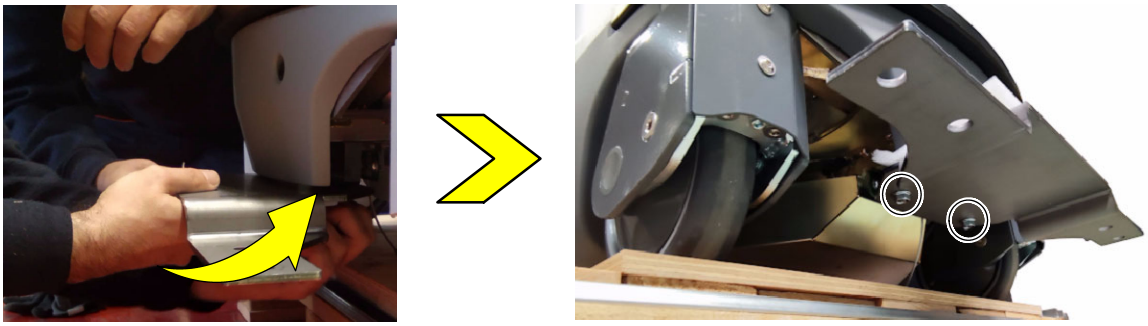




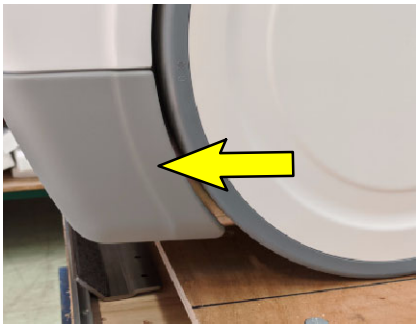
6. Place the ramp in the front side of the pallet (as a safety measure).Then, move carefully the Unit forwards to the front edge of the pallet.



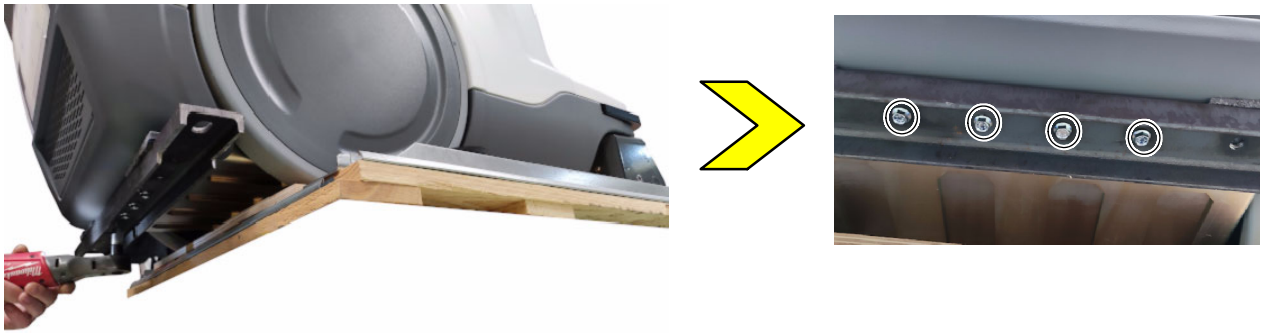
7. Turn off the Unit and mount the Front Support Frame by screwing the two (2) screws as indicated in the illustration.



8. Place the ramp in the back side of the pallet (as a safety measure), turn on the Unit and move carefully the Unit backwards to the edge of the pallet.



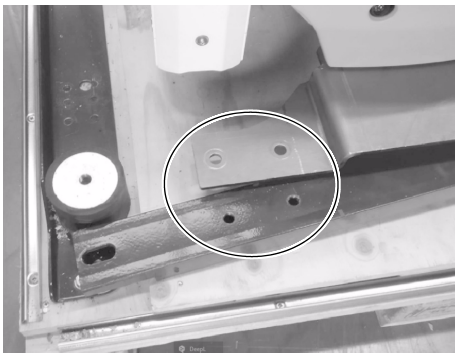
9. Turn off the Unit and mount the Back Support Frame by screwing the four (4) screws as indicated in the illustration.



10. Lever the Unit up to the Back Support Frame by using the crowbar in order to place it on the rubber bushings.

11. Cover the back wheels with the foam protection.

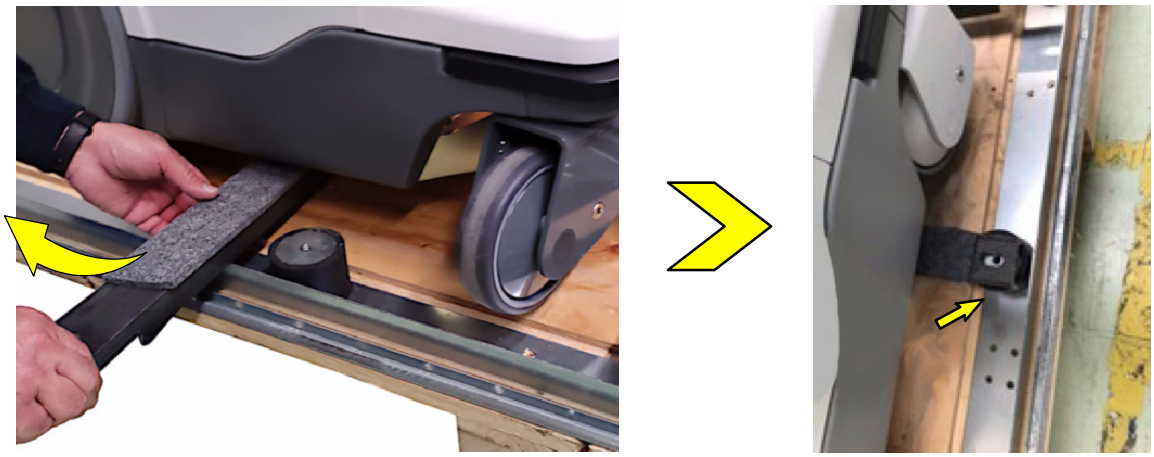
12. Screw the front beam onto the Front Support Frame with four (4) screws (two on both sides).



13. Raise the Unit slightly from the front and mount the Front Support Frame on the rubber bushings.

Note ☞ *A crowbar can be used to raise the Unit slightly from the front to make this operation easier.*

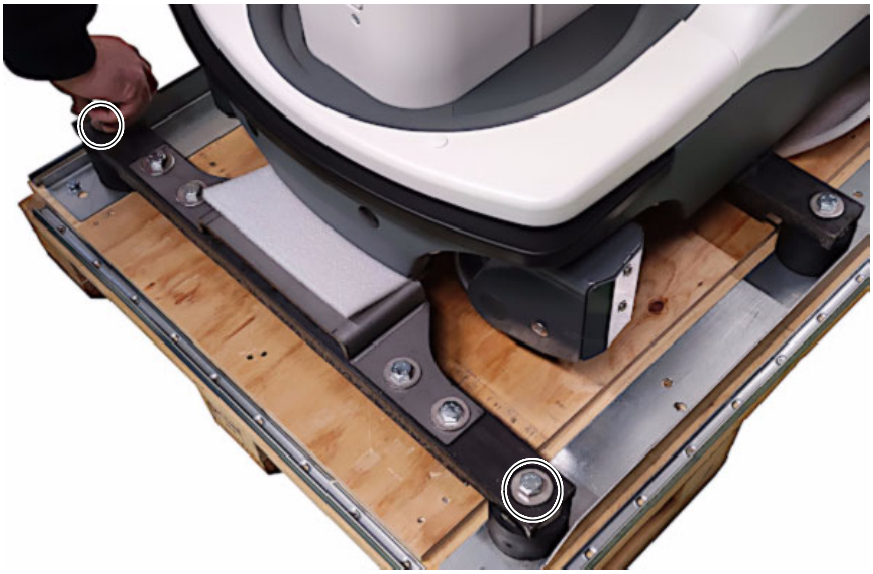
14. Raise the Unit slightly and mount the Central Support Frame on the rubber bushings.



15. Place the foam protections on the front wheels.

16. Screw the two (2) screws in the Central Support Frame and the two (2) screws in the Back Support Frame on both sides of the Unit.

17. Screw the two (2) screws in the Front Support Frame, as indicated in the illustration below.

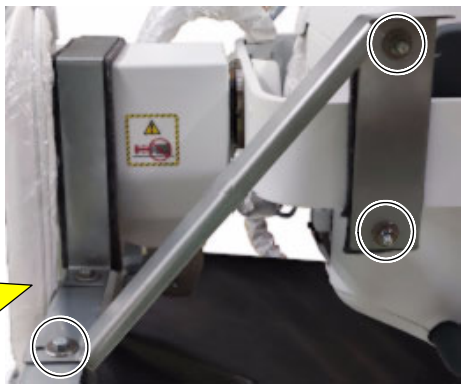


18. Mount the lateral metallic frameworks by screwing the five (5) indicated screws on both sides of the Unit.

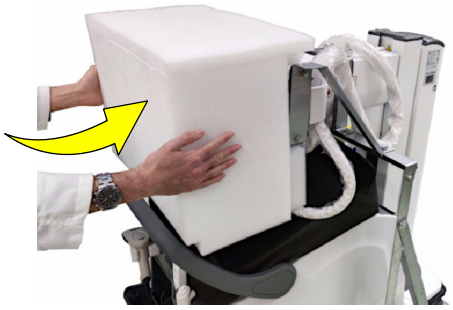
19. Place the screen cover.

20. Assemble the metallic framework that secures the Telescopic Arm by screwing the three (3) indicated screws on both sides of the Unit.

21. Assemble the two metallic pieces that secure the Head-Assembly Support on both sides of the Unit. To do this, screw the three (3) indicated screws.

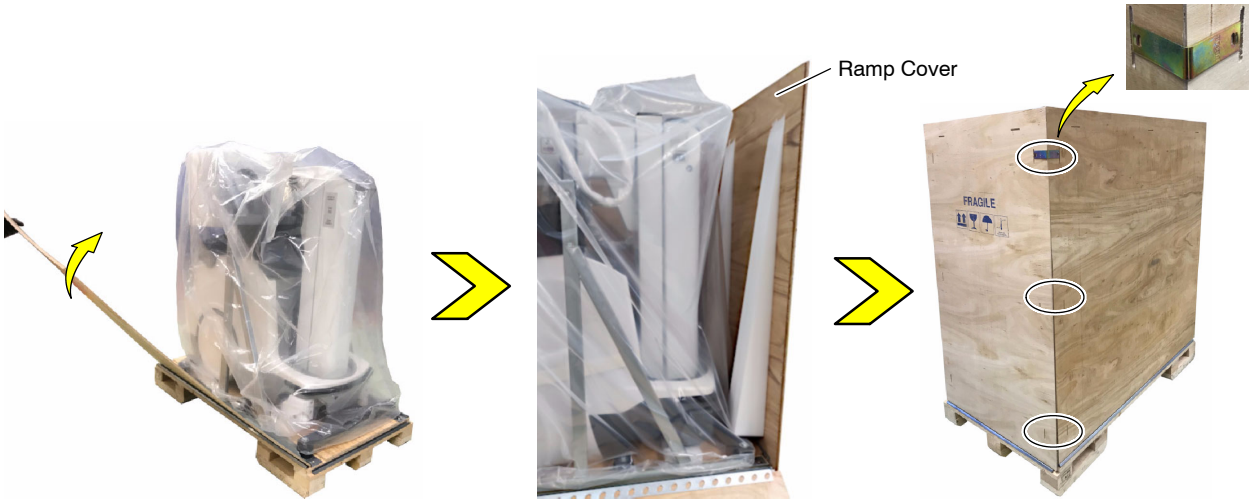


22. Place the foam cover of the Head-Assembly.



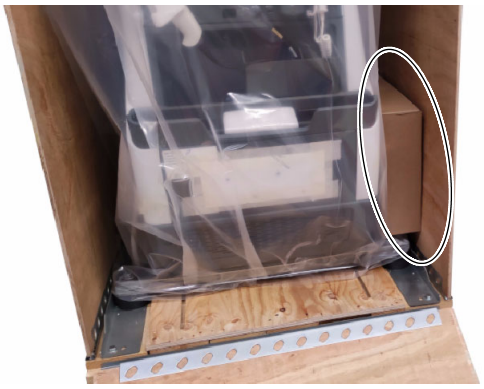
23. Cover the Unit with the plastic packaging that was removed when unpacking, or with a new plastic packaging.

24. Assemble, initially, two lateral crate covers by using the corresponding metal clips.



25. Assemble another lateral crate cover by using the corresponding metal clips, as indicated in the illustration below.

26. Put the box containing the documentation bag on one side of the crate, as indicated in the illustration below.



27. Assemble the last lateral crate cover. Then, assemble the top cover of the shipping crate by using the metal clips.

3.4 POWER LINE CONNECTION

TO AVOID THE RISK OF ELECTRIC SHOCK, THIS EQUIPMENT MUST ONLY BE CONNECTED TO A SUPPLY MAINS WITH PROTECTIVE EARTH.

THIS UNIT IS EQUIPPED WITH EMC FILTERS. THE LACK OF PROPER GROUNDING MAY PRODUCE ELECTRICAL SHOCK TO THE USER.

THE MOBILE UNIT OPERATES AT AN UNIVERSAL INPUT RANGE FROM 100 V~ TO 240 V~ THAT MAY BE LIMITED BY THE POWER LINE CABLE AND/OR PLUG ACCORDING TO THE LOCAL REGULATIONS.

THE MAIN FUSES INSTALLED IN THE UNIT TO PROTECT THE EQUIPMENT ARE FACTORY SET ACCORDING TO THE COUNTRY DESTINATION AND ITS LOCAL REGULATION. PLEASE, CONTACT TO THE SERVICE PERSONNEL OR MANUFACTURER IN CASE THAT DESTINATION IS CHANGED AND ELECTRICAL REQUIREMENTS ARE DIFFERENT BECAUSE THE EQUIPMENT MAY NOT BE PROPERLY PROTECTED.

WHEN NOT GENERATING X-RAYS, KEEP THE UNIT CONNECTED TO THE MAINS, EVEN WHEN BATTERIES ARE FULLY CHARGED. THIS ENSURES MAXIMUM STORAGE ENERGY.

For safety reasons and for proper functioning, make sure that the unit is connected to a standard outlet with GND.

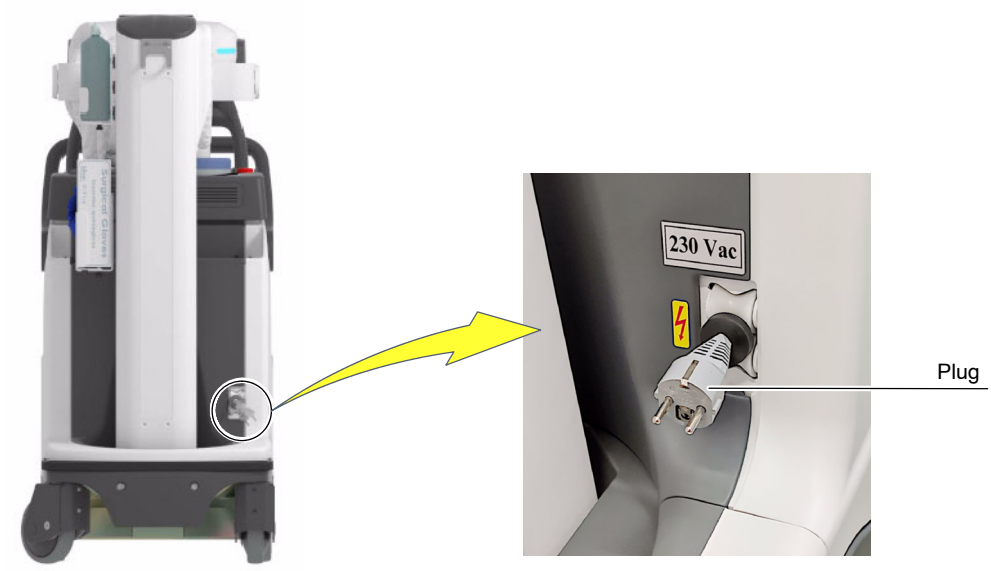
Note ☞

Refer to Troubleshooting Chapter of this Service Manual for detailed information on how to replace the Cable Reel and Input Power Line Fuses.

The Unit should be plugged into a wall socket compliant with local regulations and electrical requirements of the equipment.

The Plug is the device used as a means of disconnecting the Unit from mains. Position the Unit so that the Plug can be easily disconnected.

Note ☞ *The Power Line Operation is described in Section 2.2.*



Connect the Power Line Cable to the mains in order to allow the Charging Circuits to charge the Batteries.

Note ☞ *When the Unit is ON and plugged into the mains, a "Lightning" icon appears on the Control Console (next to the Batteries Indicators) to display that the battery is charging.*

This "Lightning" icon will disappear from the Control Console when the Unit is unplugged from the mains.

For further information about Batteries Status Indicators, refer to Operation Manual.

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