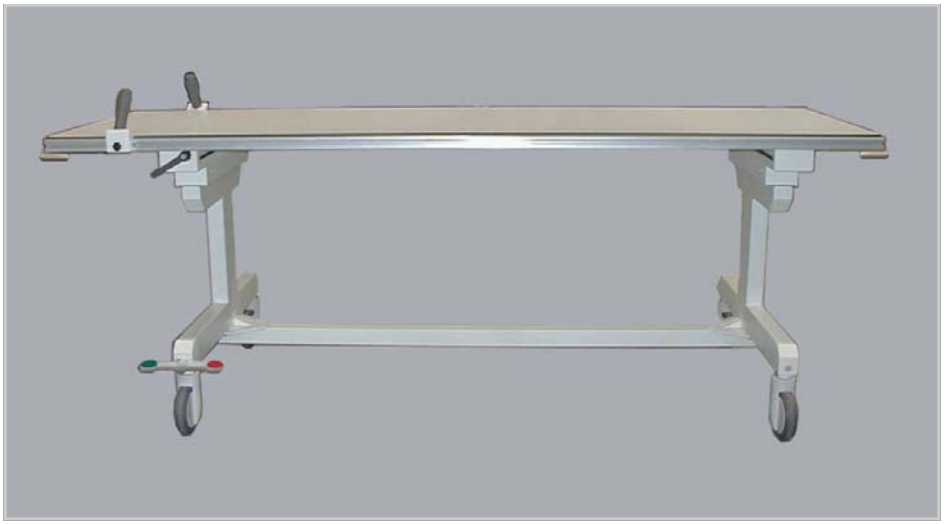
Quantum MEDICAL IMAGING
Division of Carestream

Model QT-711

# Mobile Float-Top Open-Base Radiographic Table

## Installation and Operation Manual



**Manual Part No. DC30-018 Revision H**

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CE
0473

## REVISION HISTORY

| REVISION | DATE | TYPE OF MODIFICATION |
|---|---|---|
| A | 12/7/01 | Initial Release. |
| B | 11/14/02 | Incorporated ECO 0909, 0941, 1021, 1033 |
| C | 7/30/03 | Added UL mark, new parts location diagrams |
| D | 4/26/04 | Incorporated ECO 1328, 1344, 1403 |
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| F | 12/14/07 | Incorporated ECO 1806, 1807, 1861 |
| G | 9/23/09 | Incorporated ECO 2199 |
| H | 3/27/12 | EU Rep change, miscellaneous updates |

## LIST OF EFFECTIVE PAGES

| Page Number | Rev | Page Number | Rev | Page Number | Rev |
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| i - xii | H | | | | |
| 1 - 30 | H | | | | |

# Revision History

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## *Table of Contents*

# Table of Contents

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## GENERAL SAFETY INFORMATION

This product has been designed to meet stringent safety standards. All medical electrical equipment requires proper installation, operation, and maintenance (particularly with regard to safety).

It is vital that the user read, understand, note, and where applicable, strictly observe all Warnings, Cautions, Notes and Safety markings within this document and on the equipment, and that the user strictly follow all safety directions in this manual to help ensure the safety of users and patients.

Every reasonable precaution has been taken during manufacture to safeguard the health and safety of persons who will operate this equipment. The following precautions must be observed at all times.

## WARNINGS, CAUTIONS, NOTES

The following samples show how warnings, cautions, and notes appear in this document. The text explains their intended use.

**WARNING** Indicates injury or death is possible if the instructions are not obeyed. Instructs users to refer to documentation if displayed without warning text.

**CAUTION** Indicates that damage to equipment is possible if the instructions are not obeyed.

**NOTE** Notes provide advice and highlight unusual points. A note is not intended as an instruction.

The purpose of safety icons, such as those shown below, is to indicate at a glance the type of caution, warning or danger.

**WARNING** Ionizing radiation: indicates the possibility of increased levels of radiation.

**WARNING** Dangerous voltage: indicates the presence of high voltage.

**WARNING** Warning, hot surface.

# Safety Notices

**WARNING**

**Quantum Medical Imaging, LLC disclaims all responsibility from any injury resulting from improper application of this equipment.**

**This equipment is sold to be used exclusively under the prescribed direction of a person who is licensed by law to operate equipment of this nature. This equipment must be used in accordance with all safety procedures described in this manual and must not be used for purposes other than those described herein. In the United States, Federal law restricts this device to sale, distribution, and use by or on order of a licensed physician.**

**Quantum Medical Imaging, LLC cannot assume responsibility for any malfunctioning of this equipment resulting from improper operation, maintenance, or repair, or from damage or modification of its components.**

**Failure to observe these warnings may cause serious injuries.**

**WARNING**

**X-rays are hazardous to both patient and operator unless established safe exposure factors and operating instructions are observed.**

**Only qualified and authorized personnel shall operate this system. In this context, qualified means those legally permitted to operate this equipment in the jurisdiction in which the equipment is being used, and authorized means those authorized by the authority controlling the use of the equipment. Full use must be made of all radiation protection features, devices, systems, procedures and accessories.**

**It is important that everyone having anything to do with x-radiation be properly trained and fully acquainted with the recommendations of the National Council on Radiation Protection and Measurements as published in NCRP Reports available from NCRP Publications, 7910 Woodmont Avenue, Suite 800, Bethesda, Maryland 20814-3095 (www.ncrp.com), and of the International Commission on Radiological Protection (www.icrp.org), and take adequate steps to protect against injury.**

**WARNING**

**X-ray equipment may cause injury if used improperly. The instructions contained in this manual must be read and followed when operating this unit. Personal radiation monitoring and protective devices are available. You are urged to use them to protect against unnecessary x-ray exposure.**

## REGULATORY COMPLIANCE

This certified Quantum Medical Imaging, LLC medical device has been designed, manufactured, and calibrated to comply with governing Federal Regulations 21 CFR Subchapter J and the performance standards attendant thereto. Upon installation, all certified products require the filing of Form FD-2579 "Report of Assembly of a Diagnostic X-Ray System" by the Assembler (i.e., the installer) with the appropriate agencies; the "Installation Quality Assurance Checklist" must also be completed and properly distributed upon installation. A copy of each form (pink copy) is provided to the user. The Installation Report is also completed by the installer and returned to Quantum Medical Imaging, LLC.

Those responsible for the planning of x-ray equipment installations must be thoroughly familiar and comply completely with NCRP Report No. 49, "Structural Shielding Design and Evaluation for Medical Use of X-Rays and Gamma Rays of Energies up to 10 MeV", as revised or replaced in the future. Those authorized to operate, test, participate in, or supervise the operation of the equipment must be thoroughly familiar with, and comply completely, with the currently established safe exposure factors and procedures described in publications such as Subchapter J of Title 21 of the Code of Federal Regulations, "Diagnostic X-Ray Systems and Their Major Components", and NCRP Report No. 102, “Medical X-Ray, Electron Beam and Gamma Ray Protection for Energies Up to 50 MeV—Equipment Design and Use” as revised or replaced in the future.

This equipment must only be used in rooms that comply with all applicable laws or regulations that have the force of law, concerning electrical safety for this type of equipment.

Scheduled maintenance is essential to the assurance of continued integrity of this equipment with respect to regulatory compliance. The continuance of certified performance to the regulatory standard is incumbent upon the user's diligent conformance to recommended maintenance instructions.

### CLASSIFICATION

This product has been classified as Class I, Type B by Underwriters Laboratories, Inc. Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or with nitrous oxide.

CLASSIFIED C UL US

MEDICAL ELECTRICAL EQUIPMENT
WITH RESPECT TO ELECTRIC SHOCK, FIRE,
MECHANICAL HAZARDS ONLY
IN ACCORDANCE WITH UL
60601-1 AND CAN/CSA C22.2 NO. 601.1
98UA

# Safety Notices

The following symbols may be used for marking on this equipment and/or equipment documentation:


**Earth (ground)**


**Protective Earth (ground)**


**Non-ionizing radiation**


**Consult operating instructions**


**Type B equipment**


**Warning**


**Attention, consult accompanying documents**

## COMPATABILITY

The equipment described in this manual must only be used in combination with other equipment or components if these are expressly recognized by Quantum Medical Imaging, LLC as compatible.

## INTENDED OPERATOR

This equipment is intended to be installed, used and operated only in accordance with the safety procedures given within this manual for the purpose for which it was designed. Before attempting to work with this equipment, read, understand, note and strictly observe all warnings, cautions and safety markings on the equipment.

Users include those persons who actually handle the equipment and those who have authority over the equipment.

## TRAINING

Users of this equipment shall have received adequate training on its safe and effective use before attempting to work with the equipment. Training requirements may vary from country to country. The User shall make sure that training is received in accordance with local laws or regulations that have the force of law.

## APPLICABLE STANDARDS

The Model QT-711 Radiographic Table complies with the following regulatory standards:

- FDA Center for Devices and Radiological Health (CDRH)
  - Title 21 CFR Subchapter J
- EN/IEC 60601-1:1988 + A1:1991 + A2:1995
- IEC 60601-2-32: 1994(E)
- CAN/CSA-C22.2 No. 601.1-M90, 2005 (Medical Electrical Equipment, part 1: General Requirements for Safety)
- UL 60601-1, 1st Edition, 2006-04-26 (Medical Electrical Equipment, part 1: General Requirements for Safety)
- IEC 60601-1-2: 2007(E)
- EC Directive 93/42/EEC for Medical Devices

| EC | REP |
|---|---|

Carestream Health France
1, rue Galilée
93192 NOISY-LE-GRAND CEDEX
France

# Warranty Information

## WARRANTY STATEMENT

Quantum Medical Imaging, LLC (herein after known as "QMI") warrants to the buyer that any new product manufactured by QMI will be free from defects in material and workmanship, and will substantially conform to the applicable specifications in effect on the date of shipment when subjected to normal, proper and its intended use by properly trained personnel. QMI shall be the sole judge in determining whether said equipment or component is defective by reason of manufacture.

All QMI products shall be so warranted for a period of 12 months from the date of original installation, such date to be evidenced by means of a completed Warranty Card returned to QMI within 30 days of installation. In no case shall the warranty extend beyond 15 months from the date of shipment. If the attached warranty card is not so returned to QMI, then the warranty period will be deemed to have commenced on the date of shipment (the invoice date) and extend for a period of twelve months. The buyer should submit only one such card per system or major component purchased.

Replacement components furnished by QMI to the Buyer/Dealer during the warranty period shall be warranted for the remainder of the original product warranty or 90 days, whichever is longer. This warranty extends only to the original purchaser and is not transferable unless expressly authorized in writing by Quantum Medical Imaging.

Products manufactured by parties other than QMI, whereby QMI acts solely as distributor or reseller, are warranted exclusively by their manufacturers according to each of their independent warranty terms and conditions.

Warranty consideration can only be given for defective QMI products properly returned to the factory in accordance with the QMI Returned Materials Procedure (refer to Dealer Price Book or contact QMI customer service).

*Cut along dashed line*

Name of Owner _____

Name of Facility _____

Address 1 _____

Address 2 _____

City _____ State _____

Country _____ Zip _____

Phone _____

e-mail _____

Name of Distributor _____

Installation Date _____

Check Type of Equipment and Provide ID No.'s:

| | Model No.: | Serial No.: |
|---|---|---|
| ☐ Hi-Freq. Generator | | |
| ☐ Table | | |
| ☐ Collimator | | |
| ☐ Hi-Tension Cable | | |
| ☐ Tube | | |
| ☐ Tube Stand | | |
| ☐ Wall Stand | | |
| ☐ Other | | |

**WARRANTY CARD**

**Promptly complete the above card and mail or fax it to:**

**Quantum Medical Imaging**
**2002-B Orville Drive North**
**Ronkonkoma, N.Y. 11779 USA**
**631 567-5074 fax 631 567-5800 voice**

## WARRANTY EXCLUSIONS

The foregoing warrantees are exclusive and in lieu of all other warrantees, whether written, oral, express, implied or statutory. NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL APPLY. Quantum Medical Imaging, LLC Warranty is exclusive of:

1) Failure of the Buyer/Dealer to prepare the site and operating environment in accordance with applicable instructions and recommendations of QMI.
2) Failure of Buyer/Dealer to provide the proper incoming power required to support the equipment in accordance with the requirements of QMI.
3) Modification of QMI products performed by a party other than QMI.
4) Combining products deemed by QMI to be incompatible.
5) Improper or extraordinary use of a product, improper maintenance of the product, or failure to comply with any applicable instructions and recommendations of Quantum Medical Imaging, LLC.
6) Misuse, abuse, tampering, or negligent storage or handling of a product by the Buyer, its employees, agents, or contractors.
7) Fuses, glassware, high voltage cables and other items deemed by QMI to be expendable.
8) Acts of God, fires, floods, power failure or electrical power surges. Strikes, sabotage, labor disturbances, war, riots, acts of civil or military authority, or other causes beyond the reasonable control of QMI.
9) Installation, routine troubleshooting and repair are also excluded from warranty. Technical service and maintenance is the responsibility of the Dealership selling the equipment.
10) The Manufacturer is hereby relieved of all responsibility for damage during shipment of the product following the freight carrier's pick-up for transportation to the delivery point.

## BUYER'S REMEDIES

If QMI determines that a product fails to meet any specification during the applicable warranty period, QMI shall correct any such failure as follows:

A) By repairing, adjusting, or replacing any defective or non-conforming component or product.

B) By making available any necessary repair or replacement parts or assemblies for exchange.

Quantum Medical Imaging shall have the option to furnish either new or rebuilt replacement parts or assemblies for exchange. All returned parts shall become the property of Quantum Medical Imaging upon exchange.

The preceding Paragraphs set forth the Buyer's sole remedies and QMI's sole liability for claims based upon failure of the product to meet any warranty, whether the claim is on contract, warranty, tort (including negligence and strict liability) or otherwise, and however instituted.

## BUYER'S REMEDIES (CONT'D)

Upon the expiration of the applicable warranty period, all such liability shall terminate. In no event shall QMI be liable for special or consequential damages arising out of the use of or inability to use its equipment, whatsoever.

The warranties and remedies available to the buyer are conditioned upon claims under this warranty being made in accordance with the aforementioned warranty statement.

## WARRANTY RETURN PROCEDURE

A fully completed Field Returned Material Evaluation Form must be returned with any defective product or any returned item. All returns must include the Serial Number of the Equipment and the Specific Part Number written on the Field Returned Material Evaluation Form. All freight charges resulting from Warranty Returns are the responsibility of the Buyer/Dealer.

## EQUIPMENT IN TRANSIT

QMI assumes no responsibility for equipment damaged in transit to or from QMI. To protect the Buyer/Dealer, the receiver of any equipment should examine all cartons and crates carefully at the time of delivery. If damage is apparent, make a notation on the delivery receipt, request an inspection by the freight carrier, and if applicable, file an appropriate carrier claim. Should concealed damage be detected, immediately notify the carrier and request an inspection. The purchaser (Buyer/Dealer/Customer) is fully responsible for the filing of freight damage claims to the freight carrier.

QMI assumes no responsibility for any loss or damage to products once they have been shipped from our factory. As such, the Buyer/Dealer and Customer remain fully responsible for payment to QMI for all invoices, according to our standard payment terms, regardless of freight damage or processing of an insurance claim, by the dealer or customer.

## VOIDING WARRANTY

Tampering with, or any attempt at installation, maintenance, repair, service, relocation, or alteration of or to a QMI product, when performed by any person or entity other than Quantum Medical Imaging or its Certified Dealer without the written approval of an Authorized Person at Quantum Medical Imaging, shall immediately Void and Cancel all warrantees with respect to the affected product.

# Warranty Information

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# Chapter 1

# INTRODUCTION

## OVERVIEW

***NOTE: The user should read this manual in its entirety prior to using this equipment. It should be kept in a location near the equipment and be readily accessible to those who operate it.***

This document is intended to assist users in the safe and effective operation of the equipment described herein. Pay special attention to all the information described in the Safety section (refer to SAFETY NOTICES section).

This manual is written for trained users of the Mobile Float-Top Radiographic Table, Model QT-711 (hereinafter referred to as the Radiographic Table), and for authorized field service personnel. Quantum Medical Imaging, LLC assumes no liability for use of this document if any unauthorized changes to the content or format have been made.

### KEY FEATURES

It is imperative that all safety procedures described in this manual be strictly adhered to in order to ensure the safety of both patient and user.

The significant physical and performance characteristics of the Radiographic Table are as follows:

- Large tabletop area (85 inches long and 28 inches wide) provides an ample examination platform
- Compact, low-maintenance design
- Large 5-inch swivel caster wheels for optimal table maneuverability with foot-operated locks with “total” and “steer” locking positions, precision ball bearing in swivel head
- Floating tabletop design allows fine adjustment of patient position; mechanical braking provides positive tabletop locking once desired position is attained
- 650 lbs. maximum patient load rating

This product is intended to be used and operated only in accordance with the safety procedures given within this manual for the purpose for which it was designed. The intended use is given below. Nothing stated in this manual reduces user's professional responsibilities for sound judgment and best practice.

# Chapter 1 Introduction

## INTENDED USE

The Model QT-711 Radiographic Tables is intended for use as a patient support device during the performance of radiographic examinations.

Use of the equipment for purposes other than those intended and expressly stated by the manufacturer, as well as incorrect use or operation, may relieve the manufacturer or his agent from all or some of the responsibility for resultant non-compliance, damage or injury.

## MAIN COMPONENTS

See Figure 1. The Model QT-711 Radiographic Tables contains:

1) Patient Hand Grips

2) Tabletop

3) Compliance Label

4) Wheel Lock Pedal

5) Float Top Lock/Unlock Lever

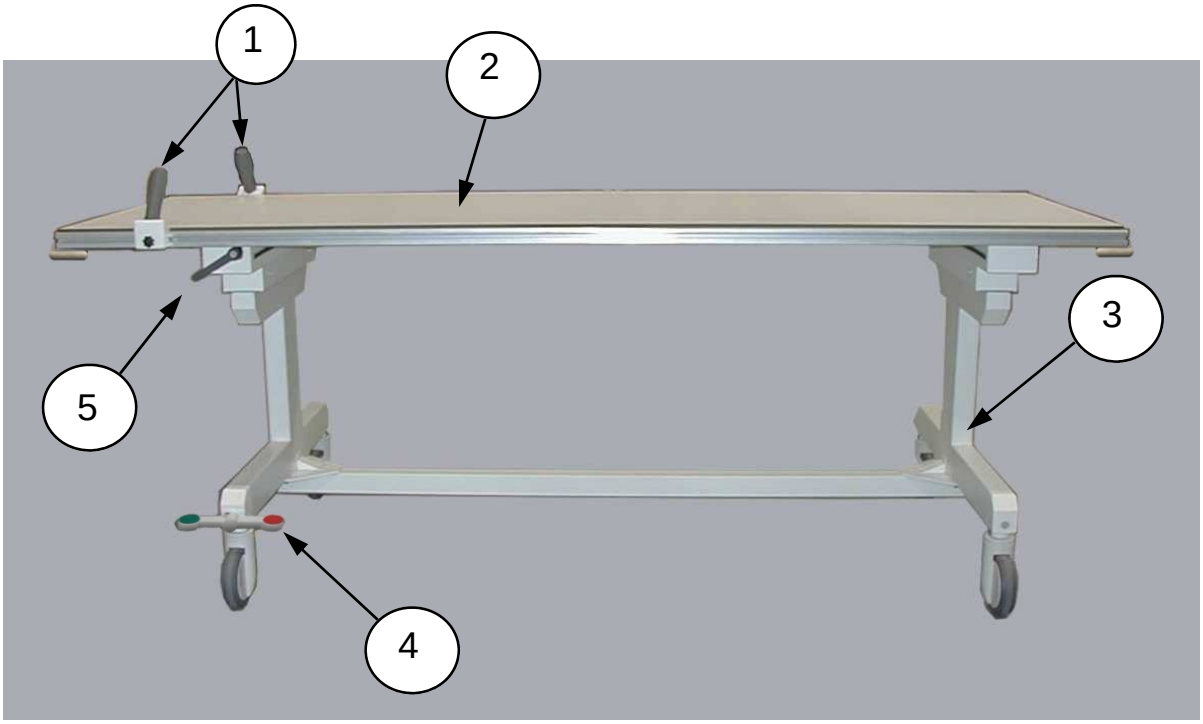



**Figure 1. Mobile Float-Top Radiographic Table, Model QT-711**

# Chapter 2

# SPECIFICATIONS

## PHYSICAL SPECIFICATIONS

The following are physical specifications for the Radiographic Table (see Figure 2):

### Tabletop Specifications

- Length: 2159.0 mm (85.0 in.)
- Width: 717.55 mm (28.25 in.)
- Height: 800.1 mm (31.5 in.)
- Material Type: Fiber Resin (phenolic)
- Density: less than 1.0 mm Al

### Table Leg Specifications

- Width (Leg-to-Leg): 1585.2 mm (64.7 in.)
- Depth: 717.55 mm (28.25 in.)
- Maximum patient load capacity: 294.8 kg (650.0 lb)

### Table Specifications

- Table Weight: 97.1 kg (214.0 lb)

## OPTIONS

The following option are available upon factory request:

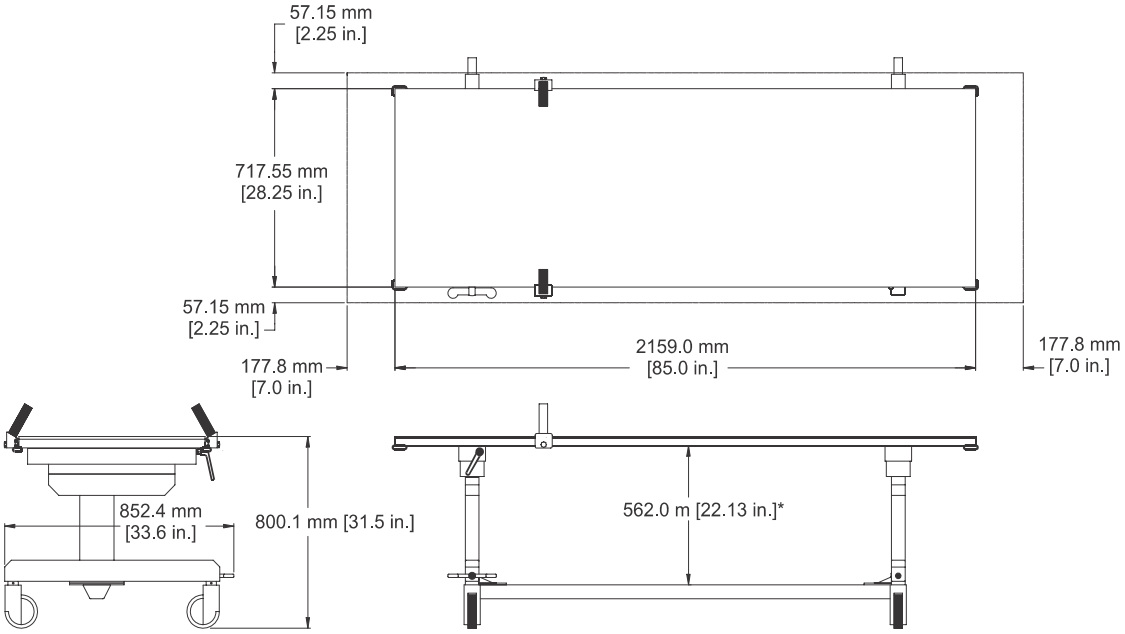
- QT-LCH: Lateral Cassette Holder (for cross-table exams)
- R90-CB: Abdominal compression Band
- QT-TPAD: 85"L x 22"W x 1/2" Thick Nylon-covered polyurethane Table Pad
- QT-PLS: Patient Support Strap

## PERFORMANCE SPECIFICATIONS

The following are performance specifications for the Radiographic Table:

### Table Top Travel Specifications

- Longitudinal Travel: 355.6 mm (14.0 in.)
- Lateral Travel: 127.0 mm (5.0 in.)




NOTES:

1. TA
2. DI

**Figure 3. Model QT-711 Dimensions**

*OPTIONAL TABLE HEIGHT OF 698.5 mm [27.5 in.] AVAILABLE WITH TABLE OPENING OF 460.38 mm [18.13 in.]

### System Operating Environment

- Ambient Temperature: 10–40 ° C (50–104 °F)
- Relative Humidity: 30–75 %, non-condensing
- Atmospheric Pressure: 700–1060 hPa

### Non-Operating Environment

- Ambient Temperature: -18 to 65 ° C (0–149 °F)
- Relative Humidity: 20–95 %, non-condensing
- Atmospheric Pressure: 500–1060 hPa

## COMPATIBILITY STATEMENT

The Quantum Medical Imaging, Radiographic Table is compatible with all Quantum Medical Imaging, manufactured tubestands, wall stands, and high-voltage x-ray generators, and with other manufacturer's equipment with equivalent means for indication of SID and perpendicularity.

Chapter 3

# ASSEMBLY & INSTALLATION

# Chapter 3 Assembly & Installation

## OVERVIEW

***NOTE: Examine all cartons and crates carefully at time of delivery. If damage is apparent, have delivery driver write a "Demand Shipment Note" on copies of the freight bill, sign, and file appropriate carrier claim. Should you discover concealed damage, immediately notify the transporting agent and ask for an "Inspection of Damage." Carrier will not accept concealed damage claim if filed after 15 days from date of receipt of merchandise.***

This chapter describes the steps required to prepare the Radiographic Table for use.

### UNPACKING

The Radiographic Table is shipped in a single separate shipping container containing the following items:

- Fully assembled table (Table Legs with attached wheels, Table Top Assembly, and Table Leg cross-member, etc.)
- Manual, Patient Hand Grips, etc.

Open the crate or carton marked "packing list enclosed" first. Locate and remove the packing list. Use the list as a guide to verify all necessary items are received. Do not dispose of packing material until packing list is matched with actual parts received. If any damaged parts are found, notify the shipping or freight company immediately (the manufacturer is relieved of any responsibility for damage during shipment after unit is picked up by the carrier). Should there be a shortage of parts, notify Quantum Medical Imaging's Service Department.

### FLOAT TOP LOCK RELEASE LEVER

Figure 5 shows a fully assembled Model QT-711 radiographic table. The table is shipped fully assembled and factory adjusted. Although pre-adjusted at the factory, the Float Top Lock Release Lever, shown in Figure 6, may require re-adjustment in the event the lever is pulled out and subsequently misaligned . The following procedure provides instructions for re-adjusting and properly positioning the Float Top Lock Release Lever.

#### Float Top Lock Release Lever Adjustment Procedure

The initial position of the Float Top Lock Release Lever can be adjusted through a 180° range. To set the lever position, proceed as follows:

1. With the Float-Top Lock Release Lever in the "Locked" position, pull the spring-loaded Lock Release Lever outward along the shaft to disengage its splines from those on the shaft. See Figures 6 and 7.

2. With the Lever extended, rotate the lever to your desired angle for the "Locked" position, then slowly release the lever to re-engage the shaft.
3. Re-check the operation of lever and re-adjust the position as necessary.

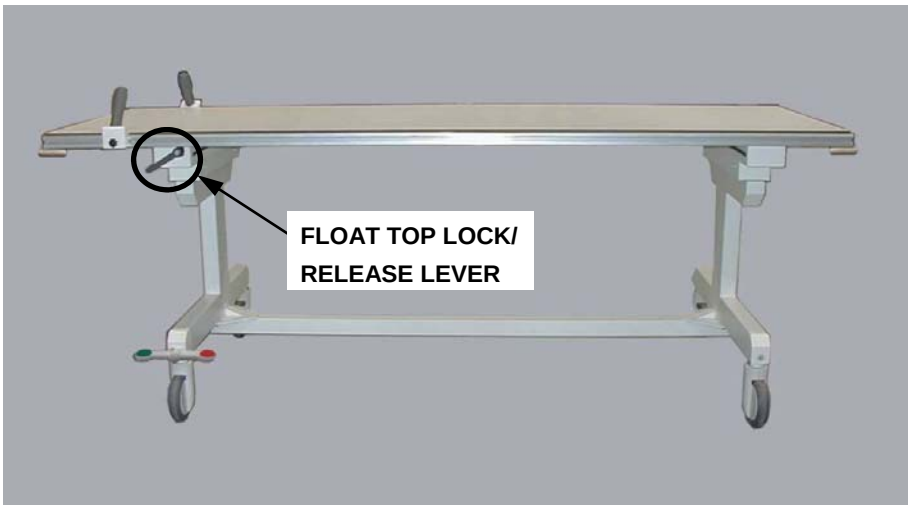



**Figure 5. Model QT-711 Radiographic Table (Viewed from Front)**

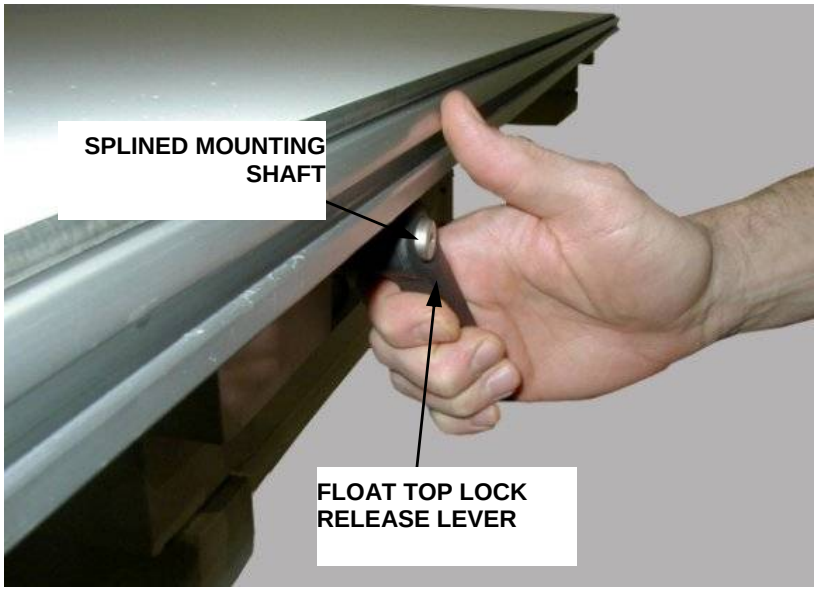



**Figure 6. Float Top Lock Release Lever (Engaged Position)**


Figure 7. Float Top Lock Release Lever (Disengaged Position)

# Chapter 3 Assembly & Installation

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# Chapter 4

# OPERATION

## RADIOGRAPHIC TABLE OPERATION

***CAUTION! All movable components of this equipment must be operated with reasonable care. To ensure maximum effectiveness of the wheel locks, the Radiographic Table must only be operated on a smooth level floor.***

***WARNING! To avoid damage to the table, any load on table top should be distributed as evenly as possible over the support surface. Do not seat patient at extreme ends of table when tabletop is not centered. Patients weighing more than approximately 136 kg (300 lb) should only be transferred on or off the table from front side, in the center. Be careful to keep patient's feet away from wheel lock pedals when moving patient on or off table. Prior to transferring a patient on or off the table, make sure the tabletop float lock is engaged and wheel lock pedal is in locked position.***

If using table with either a Model QW-420-T or QW-420-T-D wall stand, adjust the image receptor height to "TABLE" position and tilt image receptor to 90° position before moving table over receptor (refer to Model QW-420-T or QW-420-T-D Installation and Operation manual for complete wall stand operation instructions).

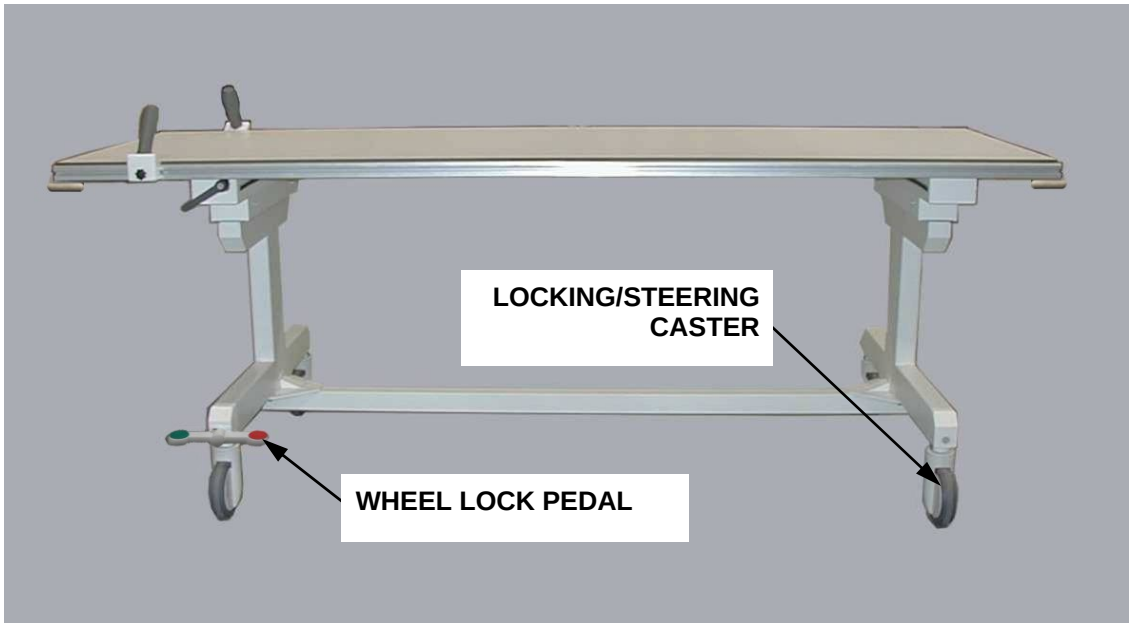


Figure 8. Wheel Lock Location

### TABLE WHEEL LOCK OPERATION

On Model QT-711 mobile radiographic tables, the wheel Lock/Steer lever is located on the left front of the table (above wheel).

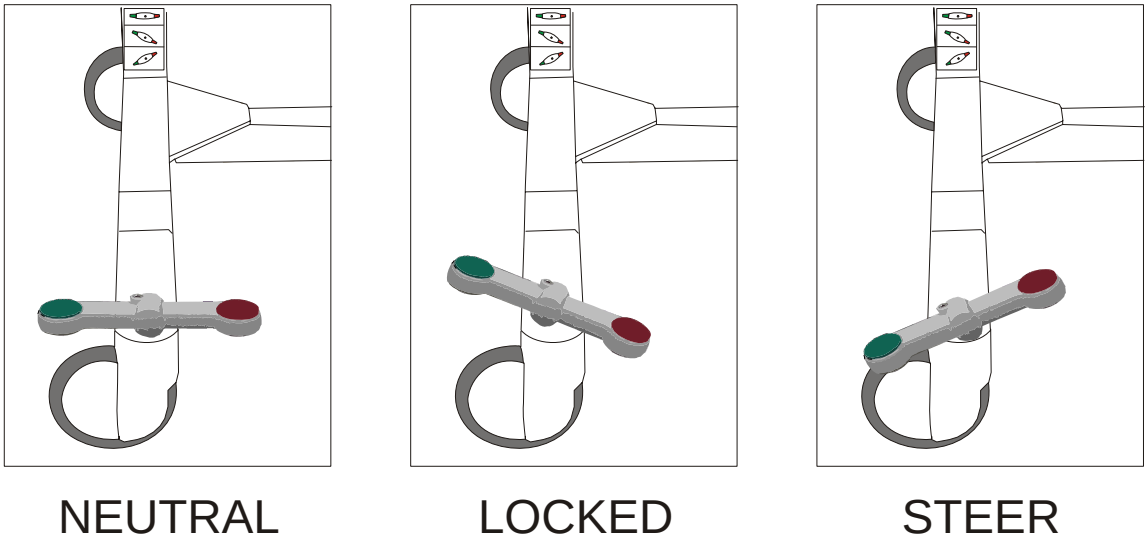


**Figure 9. Wheel Lock Operation**

To operate the wheel locks, see Figure 9 and proceed as follows:

Immobilized Position (locked position) - Press down firmly on the red-colored end of the lever until it reaches the "LOCKED" position. All four wheels and wheel casters are locked; wheels cannot roll or swivel.

Swivel Lock Position (steer position) - Press down firmly on the green-colored end of the lever until it reaches the "STEER" position. The right front wheel will not swivel, enabling the table to be rolled in a straight line (see Figure 8).

Unlocked Position (neutral position) - When the lever is moved into the NEUTRAL position (i.e., in neither LOCKED nor STEER position), all wheels are unlocked and able to roll and swivel.

***WARNING! Ensure wheels are locked before transferring patient on or off table. The table must not be mobilized with a patient onboard.***

### TABLE FLOAT TOP MOTION

The Float Top Lock Release Lever is used to release (or "float") the table top to enable easy patient positioning during radiographic examinations. When the table top Float Top Lock Release Lever is in the "unlocked" position (see Figure 10), the table top can be moved both longitudinally (i.e., left or right) and laterally (i.e., forwards or backwards). This is accomplished by rotating the Float Top Lock Release Lever counterclockwise approximately one eighth turn (45°).

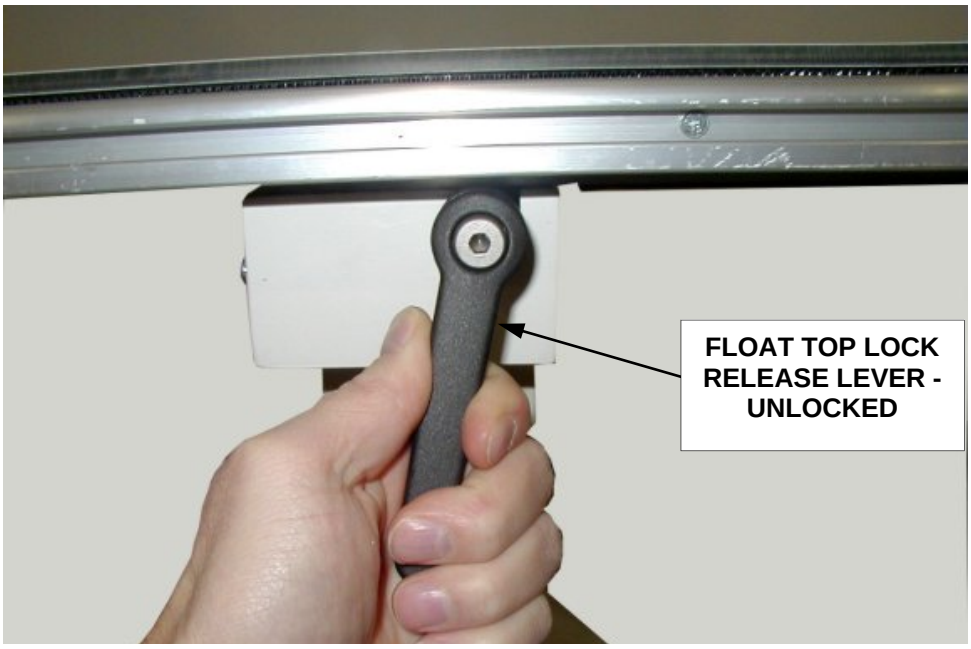


**Figure 10. Float Top Lock Release Handle in Un-Locked Position**

When the table top is in the correct position, rotate the Float Top Lock Release Lever clockwise approximately one eighth turn (45°) until lever is tight (see Figure 11).

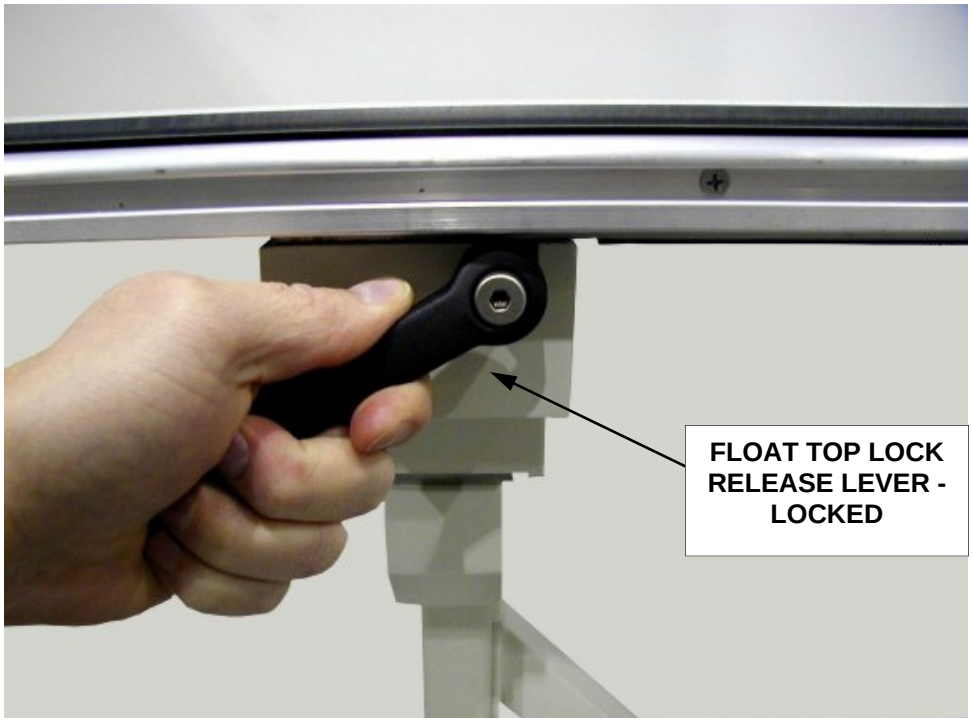


**Figure 11. Float Top Lock Release Handle in Locked Position**

## INSTALLING AND USING THE PATIENT HAND GRIPS

The Model QT-711 radiographic table is equipped with two adjustable, cushioned Patient Hand Grips. These serve as stabilizing grips for the patient to grasp when mounting and dismounting the table. They also serve when the patient is required to keep hands clear of the imaging area during a radiological examination.

When they are positioned at the Table Left End as shown in Figure 12 below, they act as control handles enabling the operator to move and steer the table in conjunction with the STEER and NEUTRAL Wheel Lock Positions.

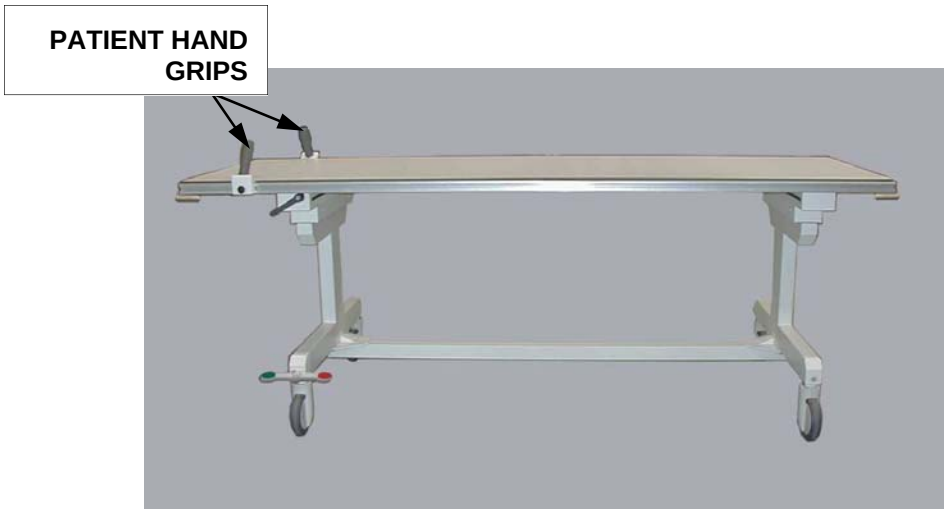


**Figure 12. Patient Hand Grips (Installed)**

To install the Patient Hand Grips, loosen the black thumbscrew on each Hand Grip and insert the rectangular locking plate (on rear side of Hand Grip) into the accessory rail on either side of tabletop. Slide the Hand Grip into desired position along the rail, then hand-tighten the thumbscrew.

## TABLE OPTIONS

Refer to the user documentation provided with the Lateral Cassette Holder (QT-LCH) and Abdominal Compression Band (R90-CB) for instructions on how to use these optional accessories with the Radiographic Table.

# Chapter 4 Operation

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# Chapter 5

# MAINTENANCE

## OVERVIEW

This chapter is designed to assist the system user in maintaining the proper operation of the table. This product has been factory tested to assure its required performance in an X-ray system.

***WARNING! Failure to follow manufacturer's or service personnel's recommendations may result in serious injury.***

***Only qualified and authorized persons shall work on this equipment. In this context, qualified means those legally permitted to work on the equipment, and authorized means those specifically authorized by local management.***

***Changes, additions or maintenance to the equipment carried out by persons without appropriate qualifications and training and/or using un approved spare parts may lead to serious risk of injury and damage to the equipment as well as making the warranty void.***

### CLEANING

The system user is responsible for the basic cleanliness of the equipment. On a regular basis, the table surface should be wiped clean. Painted metal surfaces should be cleaned using a clean cloth slightly moistened in warm soapy water (use mild soap). Wipe with a clean wet cloth, then dry. Never use abrasive polish on this equipment.

Disinfect the table top surface after each use in accordance with facility requirements.

***CAUTION! Never use abrasive polish on this equipment.***

### USER MAINTENANCE

The user is responsible for performing certain routine maintenance and inspection procedures. Aside from routine maintenance, any abnormal noise, vibration, or unusual performance should be investigated by a qualified service representative. Preventive maintenance or any repair service should be performed only by qualified service personnel.

User maintenance consists of the following activities, which should be performed on a daily basis:

- Visually inspect the table for wear and cleanliness
- Clean the table top and exterior painted surfaces of the table

## PLANNED MAINTENANCE

A complete series of inspections and functional checks was conducted at the time of installation to insure proper operation of the system.

Routine inspection and maintenance of the Radiographic Table should be performed by qualified service personnel on an annual basis. The following inspection and adjustment procedures are recommended to maintain the system in its original operating condition.

- Check operation of the Wheels, Casters, and Wheel Locks.
- Confirm operation of Steering Casters and Foot Pedal Controls.
- Inspect the entire table for loose hardware or loose fit
- Inspect all bearings and bearing surfaces for cleanliness and corrosion.
- Conduct a general inspection for worn or damaged parts
- Visually inspect for wear and cleanliness
- Check operation of Float Top Lock Release Lever (If lever adjustment is required, refer to Float Top Lock Release Lever Adjustment Procedure in this chapter for adjustment instructions)

## TRANSVERSE AND LONGITUDINAL BRAKE SYNC ADJUSTMENT

The table top brakes are factory pre-adjusted and normally do not require re-adjustment. However, this procedure is provided in the event brake adjustment is deemed necessary. Proceed as follows:

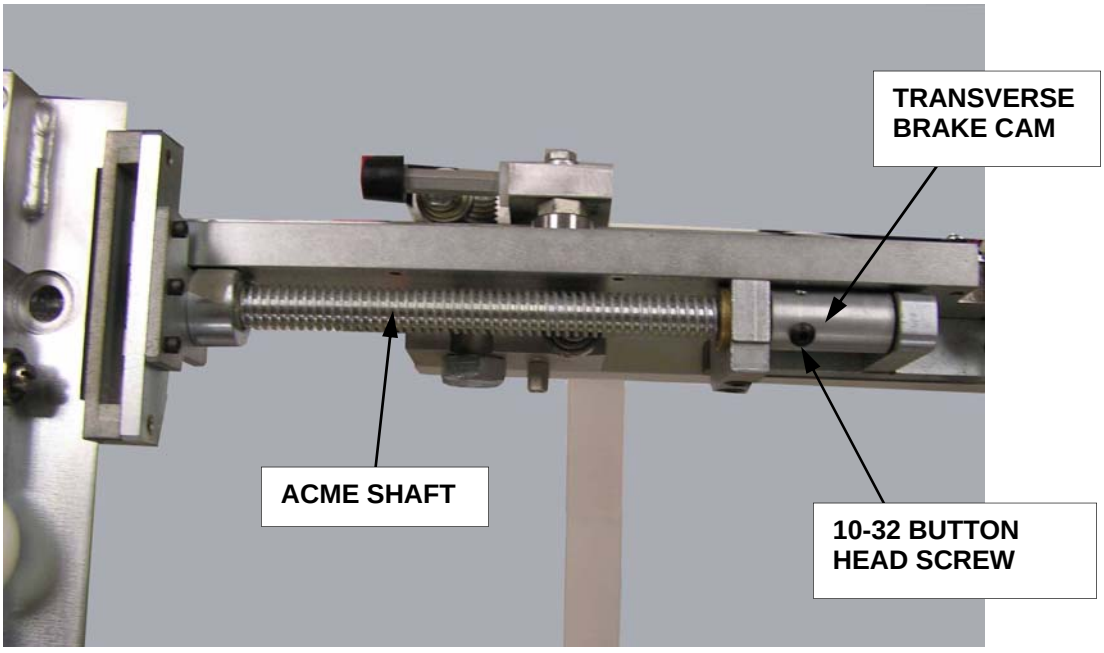


**Figure 13. Replaceable Parts Location Diagram**

1. Remove the 10-32 button head screw from the Transverse Brake Cam Sleeve (see Figure 13).

2. While standing in a position in front of the table, hold the Transverse Brake Cam Sleeve and rotate Acme Shaft using the brake handle either clockwise (to increase longitudinal braking force) or counterclockwise (to increase the transverse braking force.

3. Rotate the brake handle until the next 10-32 hole in the Acme Shaft is aligned with one of the two screw holes in the Transverse Brake Cam Sleeve. Note: Each hole represents 0.015" of adjustment; there are 8 holes in total.

4. Re-install the 10-32 screw when adjustment is correct.

## REPLACEMENT PARTS AND ORDERING INFORMATION

Table 1 provides a list of replaceable parts for the Radiographic Table. Figures 14 through 16 show the locations of the replaceable parts in the system. Use only original replacement parts, as supplied or recommended by Quantum Medical Imaging.

**Table 1. Replaceable Parts**

| ITEM | DESCRIPTION | PART NUMBER | QTY |
|---|---|---|---|
| 1 | Phenolic Table Top | ME31-012 | 1 |
| 2 | Patient Hand Grips | AY20-061 | 2 |
| 3 | Double Lever Pedal Assembly (Incl. Red & Green Plugs)<br><br>(Lever, w/o plugs)<br>(Replacement Red Plug)<br>(Replacement Green Plug) | AY20-207<br><br>ME30-178<br>ME30-179<br>ME30-180 | 1<br><br>1<br>1<br>1 |
| 4 | Wheel, 5" Locking, Directional | ME41-003 | 1 |
| 5 | Wheel, 5" Locking, Non-Directional | ME41-007 | 3 |
| 6 | Bumper, Table Top Corner | ME30-111 | 4 |
| 7 | Brake Pad | ME10-225 | 1 |
| 8 | Longitudinal Travel Bearing | ME40-026 | 18 |
| 9 | Table Top Lock Handle | FA30-007 | 1 |
| 10 | Transverse Guide Bearing | ME40-018 | 12 |
| 11 | Bumper Stop | ME30-013 | 4 |

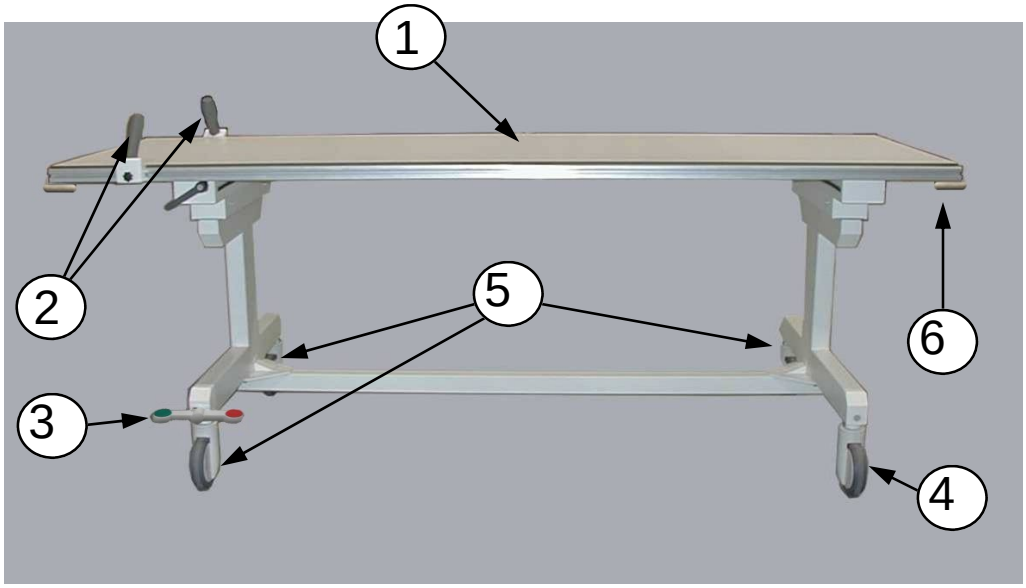


Figure 14. Replaceable Parts Location Diagram

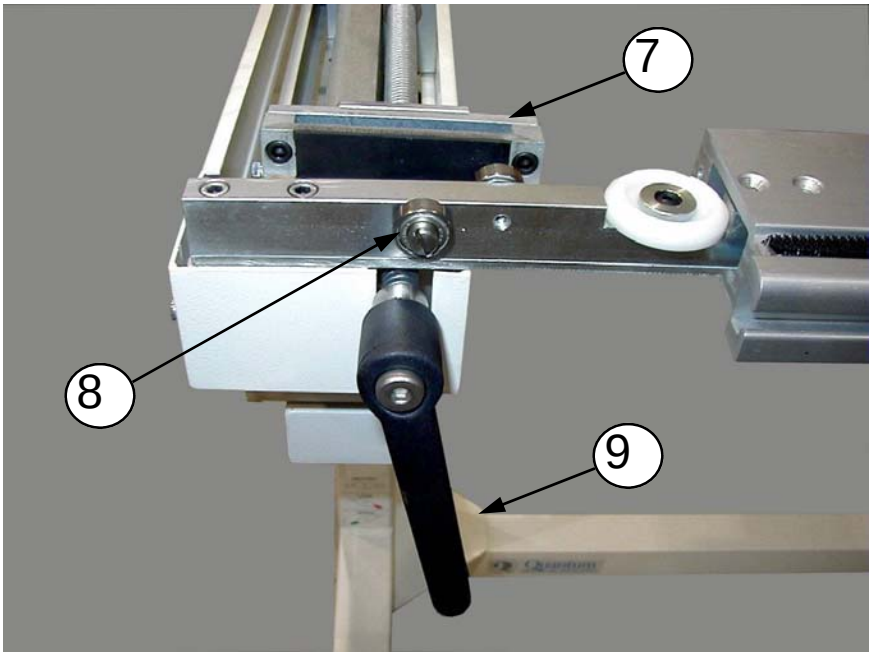


Figure 15. Replaceable Parts Location Diagram

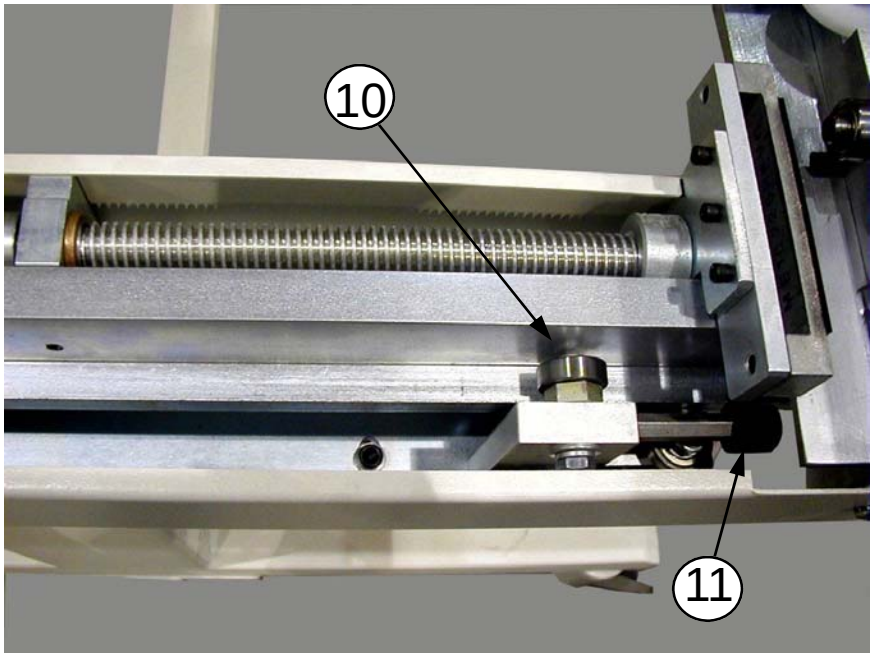


**Figure 16. Replaceable Parts Location Diagram**

### ORDERING INFORMATION

To order replacement parts for the Radiographic Table, contact the Service Department at:

Quantum Medical Imaging
2002-B Orville Drive North
Ronkonkoma, New York 11779 USA
Phone: (631) 567-5800
Fax: (631) 567-5074
e-mail: service@qmiteam.com

When ordering replacement parts, supply the following information:

- Model and serial number of equipment
- Part number
- Part description
- Quantity required
- P.O. Number
- Shipping Instructions

When ordering components or parts not listed in Table 1, a complete description of the part, including its function and location should be provided with the model number and serial number of the unit.

# Chapter 5 Maintenance

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