



positioning
patients for life.®

PRODUCT GUIDE & USER MANUAL


RT-4543

QUEST™ Breastboard

and Accessories





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|----|-----|---|--|
| EC | REP | Advena Limited Tower Business Centre, 2nd Flr Tower Street, Swatar, BKR 4013 Malta |  Made in the USA by Qfix 440 Church Rd, Avondale, Pennsylvania, USA +1 610-268-0585 www.Qfix.com |
|----|-----|---|--|

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GENERAL PRECAUTIONS

WARNING STATEMENTS

! WARNING ! NO MODIFICATION OF THIS EQUIPMENT IS ALLOWED. IF ANY PART OF THIS DEVICE EXPERIENCES A CATASTROPHIC LOAD, APPEARS DAMAGED OR FUNCTIONS IMPROPERLY, DISCONTINUE USE IMMEDIATELY AND CONTACT QFIX AT +1 484-720-6054 OR TECHSUPPORT@QFIX.COM.

SERIOUS INCIDENTS

Please report any serious incidents (e.g. incidents which result in or have the potential to result in death or serious injury) to both Qfix and your country's Competent Authority.

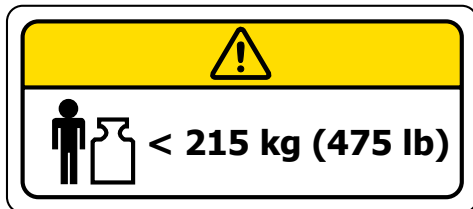
TREATMENT BEAM ATTENUATION

Treatment through any device will lead to an increase in skin dose. Thermoplastic masks will attenuate a radiotherapy beam and increase skin dose. Attenuation and increased skin dose should be taken into account during planning and treatment.

GENERAL PRECAUTIONS

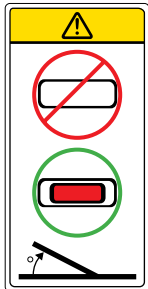
WARNING LABELS & DESCRIPTIONS

Refer to Qfix.com for a listing of symbols and their definitions.



LOAD RATING

DO NOT exceed 215 kg (475 lb) uniformly distributed load or maximum safe working load of Couch Top Insert, or couch base, whichever is less.



LADDER WARNING

When using the Breastboard on an angle, be sure the ladder is securely locked into place and the red ends of the ladder are visible from the top of the device.

Using the Breastboard on an angle without properly securing the ladder into place may damage the device or cause injury.

INTENDED USE

This device is intended to immobilize, position and reposition patients undergoing radiation therapy.

! NOTE ! United States Federal law restricts this device to sale by or on the order of a physician.

PATIENT TARGET GROUPS

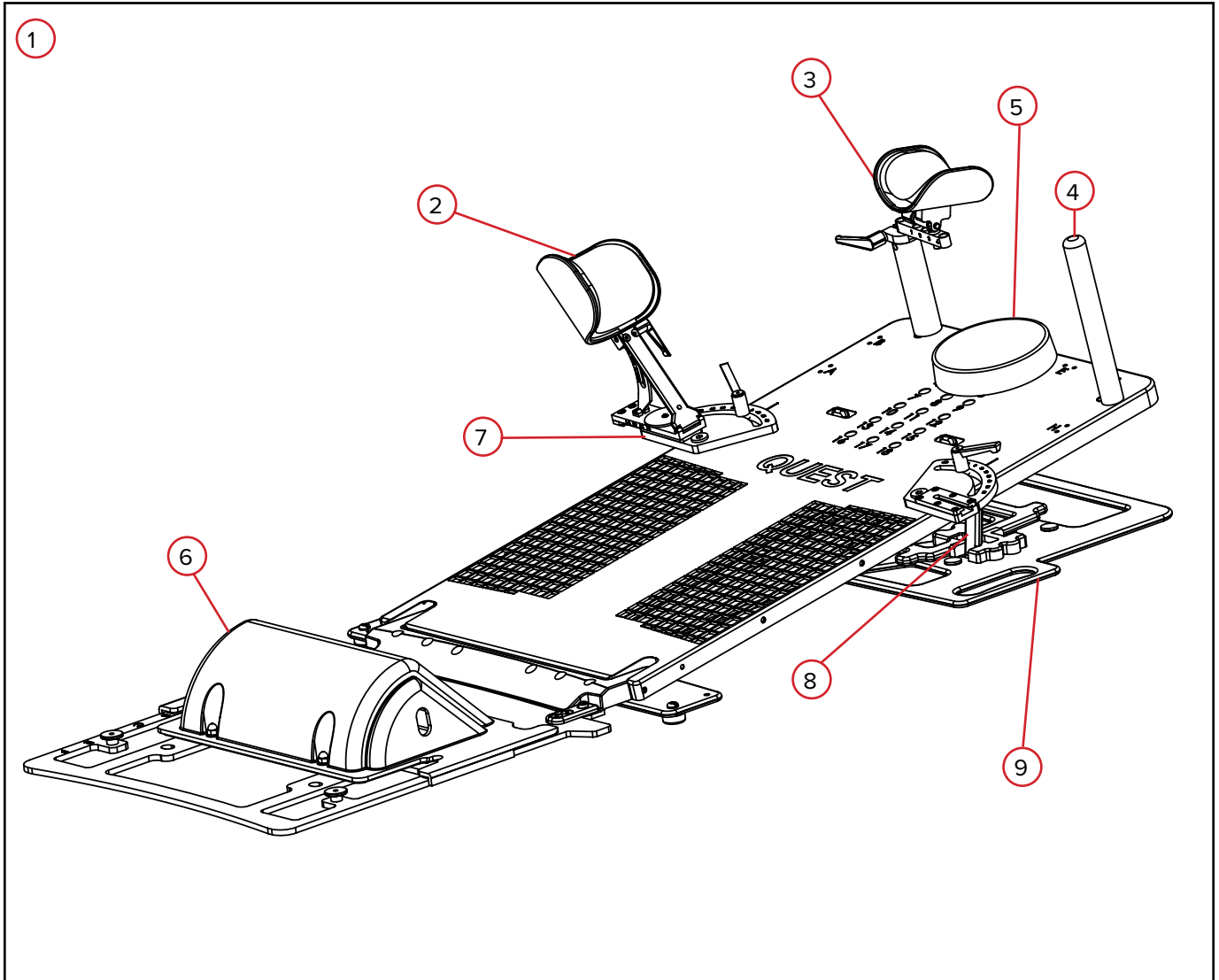
Patient's undergoing radiation therapy or diagnostic imaging procedures.

INTENDED USERS

The intended user for the products is a person qualified in accordance with the requirements of the regulatory region.

FEATURES

COMPONENTS



FEATURES

COMPONENTS

1. QUEST

The QUEST Breastboard is used to aid in the positioning and setup of patients undergoing radiotherapy of the breast and lungs.

2. UPPER ARM SUPPORT CUPS

The Upper Arm Support Cups have a full range of adjustment to accurately position the upper portion of the patient's arms.

3. WRIST SUPPORT CUPS

The Wrist Support Cups adjust to support the patient's wrists during simulation and treatment.

4. HAND GRIP POSTS

The Hand Grip Posts can be used in conjunction with or in place of the Wrist Support Cups.

5. HEADREST

The included deep dish head cup can be positioned in numerous locations (labeled 1 to 25) on the QUEST. Optional headrests are available, including large and small Gel Headrests and the TIMO B Headrest.

6. BOTTOM STOPPER

The indexable Bottom Stopper maintains proper patient positioning by helping prevent the patient from sliding down the Breastboard.

7. CLOCKING PLATES

The Clocking Plates are located on the right and left side of the Breastboard. The Upper Arm Supports slide into the Clocking Plates, which allow for angle adjustments ranging from -30 to 60 degrees.

8. ANGLE LADDERS

The Angle Ladders allow the patient's head and torso to be angled vertically at angles of 1.25, 5, 7.5, 10, 15, 20, and 25 degrees.

9. BASE PLATE

The Base Plate provides attachment points for the Angle Ladders.

OPERATING INSTRUCTIONS

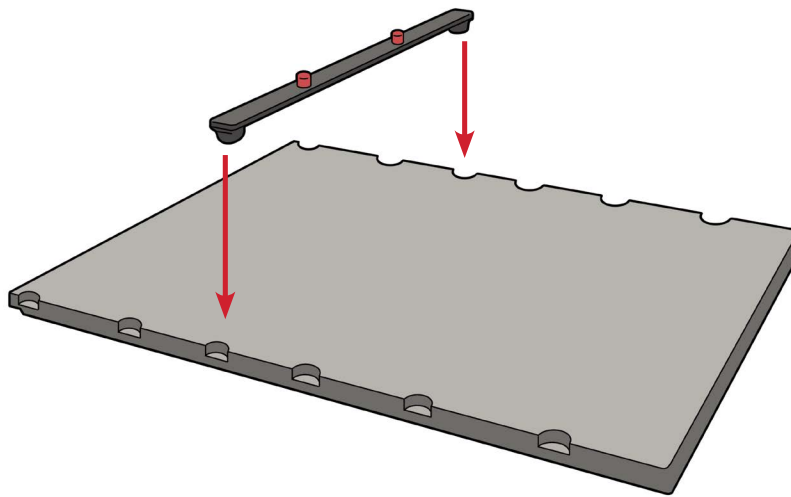
SET-UP

LOCATING BAR INSTALLATION

! NOTE ! If you are indexing the QUEST to a Varian Exact compatible couch top or device, a two-pin Locating Bar, such as RT-4551BAR is required.

The Locating Bar has two locating pins that match most standard positioning accessories. To attach, place either end of the Locating Bar in the appropriate Varian Exact® compatible index notches and snap in place.

! NOTE ! If you are locating the QUEST off center, you must use a locating bar.



QUEST INSTALLATION

1. Position the QUEST over the locating bar so that the holes in the base plate align with the two pins in the locating bar.
2. Push the QUEST down onto the locating bar to lock the QUEST into place.

! NOTE ! The QUEST can be offset to either side to position the tumor closer to the isocenter as desired but a locating bar must be used.

OPERATING INSTRUCTIONS

SET-UP

ADJUSTING PATIENT ANGLE

! NOTE ! When using the QUEST on an angle, ensure that the angle ladders are secured to the top panel, and the red ends are visible from above the device. If the angle ladders are not properly secured, injury to the patient and/or damage to the device may result.

1. Press in on release to unlock (Fig. 1).
2. Lift the top panel of the QUEST and raise the desired angle ladder into place (Fig. 2).
3. Lower the top panel until the angle ladder locks into the slots. Once locked, the red ends of the angle ladders will be visible from the top surface of the QUEST (Fig. 3 & 4).

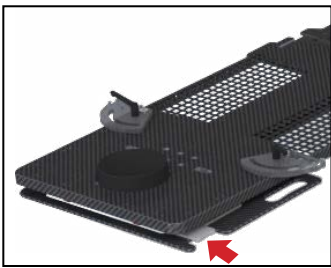


Fig. 1

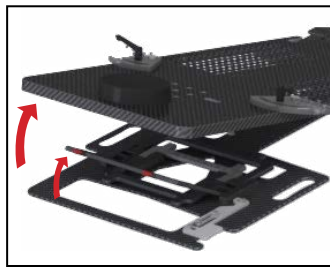


Fig. 2



Fig. 3

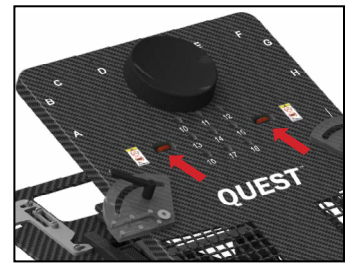


Fig. 4

! CAUTION ! ENSURE ANGLE LADDERS ARE SECURED IN GROOVE ALONG THE HINGE PRIOR TO USING QUEST. FAILING TO DO SO MAY DAMAGE THE DEVICE OR CAUSE INJURY (FIG. 5 & 6).

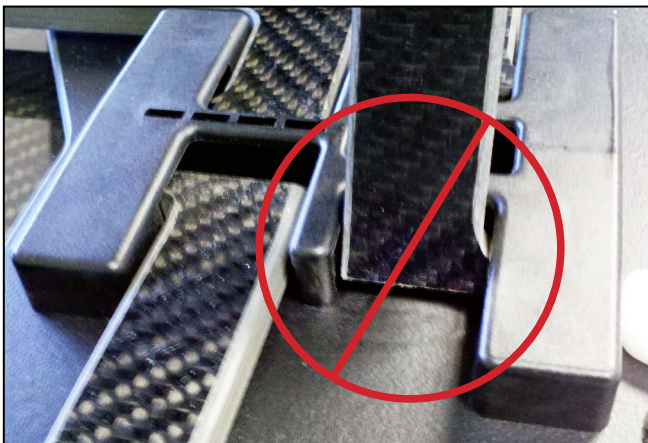


Fig. 5

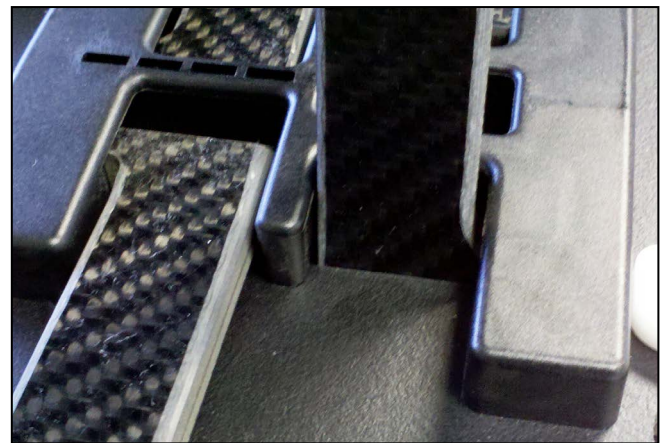


Fig. 6

OPERATING INSTRUCTIONS

SETUP

GEL DONUT AND TIMO B INSTALLATION

1. Remove the standard Deep Dish Head Cup from the QUEST.
2. Install the Gel Donut or TIMO B Headrest in one of the available positions (1–25) at the top of the QUEST.

UPPER ARM SUPPORT CUP INSTALLATION

1. Loosen (turn counterclockwise) the red knob on the left and/or right Clocking Plate.
2. Slide the Upper Arm Support into the indexed groove in the Clocking Plate to one of the four available lateral adjustment positions (A–D).
3. Tighten the red knob to secure the lateral position of the Upper Arm support.
4. To adjust the height of the Upper Arm Support Cup, loosen (turn counterclockwise) the black handle under the cup. Move the Upper Arm Support Cup to one of the available positions (1–12) and tighten the black handle.
5. To adjust the clocking angle of the Upper Arm Support Cup, loosen to black knob on the Clocking Plate. Rotate the Clocking Plate to the desired angle and tighten the black knob.



Fig. 7

! NOTE ! If the red knob becomes loose, tighten the screw using a $\frac{5}{64}$ " Hex Key as shown in Fig. 7.

WRIST SUPPORT CUP INSTALLATION

1. Insert the pins in the base of the Wrist Support Cup(s) into the holes in one of the eight positioning locations labeled A–H at the top of the QUEST.
2. To adjust the height of the Wrist Support Cup(s), loosen the black handle under the cup. Raise or lower the post to one of the available positions (1-4) and tighten the black handle.

HAND GRIP POST INSTALLATION

! NOTE ! The Hand Grip Posts can be used in conjunction with or in place of the Wrist Support Cups. Hand Grip Posts are installed in the same positioning locations (A–H) as the Wrist Support Cups.

Insert the pins in the base of the Hand Grip Post(s) into the holes in one of the eight positioning locations labeled A–H at the top of the QUEST.

OPERATING INSTRUCTIONS

SETUP

QUEST ARMSHUTTLE, RT-4543C, INSTALLATION

! NOTE ! The QUEST ArmShuttle is an alternative to the Upper Arm Support and Wrist Support Cups. See the Quest ArmShuttle setup sheet for detailed instructions for installing the QUEST ArmShuttle onto the QUEST.

1. Loosely insert the black knurled knobs included with the QUEST ArmShuttle into the threaded holes at the top of the left and right Clocking Plates.
2. Slide the QUEST ArmShuttle into place on the QUEST.
3. Tighten the black knurled knobs.

OPTI-HANDLES AND AQUAPLAST RT SHEET INSTALLATION

1. Loosen the screws securing the halves of one of the Opti-Handles.
2. Insert the narrow end of the Aquaplast RT sheet between the two halves of the Opti-Handle.
3. Tighten the screws to secure the Aquaplast RT sheet between the two halves of the Opt-Handle.
4. Repeat steps 1–3 with the other Opti-Handle.

PRE-MOLDED CUSTOM BREAST POSITIONING DEVICE INSTALLATION

1. Position the patient on the QUEST and make all the required adjustments.
2. Lower the pre-molded Aquaplast RT sheet into the position on the patient and snap the Opti-Handles into place in the holes on the left and right sides of the QUEST.

BOTTOM STOPPER INSTALLATION

1. Position the Bottom Stopper so that the rounded side faces away from the QUEST and the Bottom Stopper is at index position F.
2. Align the holes in the base of the Bottom Stopper over the white pegs in the Base Plate of the QUEST. Push the Bottom Stopper down to secure to the pegs.
3. Lift the rods at the left and right sides of the Bottom Stopper to adjust the position. Slide the Bottom Stopper to one of the indexing positions (A–F) and release the rods. An audible click indicated that the Bottom Stopper is locked in place.

MAINTENANCE

CLEANING THE SYSTEM

The device can be cleaned with a mild, non-abrasive cleaning or disinfecting solution. To clean, apply solution to clean cloth and wipe the surface.

DISINFECTING THE SYSTEM

The following cleaning materials have been tested and found to be appropriate for cleaning the QUEST surfaces. To disinfect the QUEST surface, refer to specific instructions from the cleaning agent manufacturer.

- Water
- 10% Clorox® Bleach Solution
- Isopropyl Alcohol
- Cidex® 2.4% Activated Dialdehyde Solution
- Soap and Water

DO NOT spray directly onto the QUEST or allow to flow into the Baseframe.

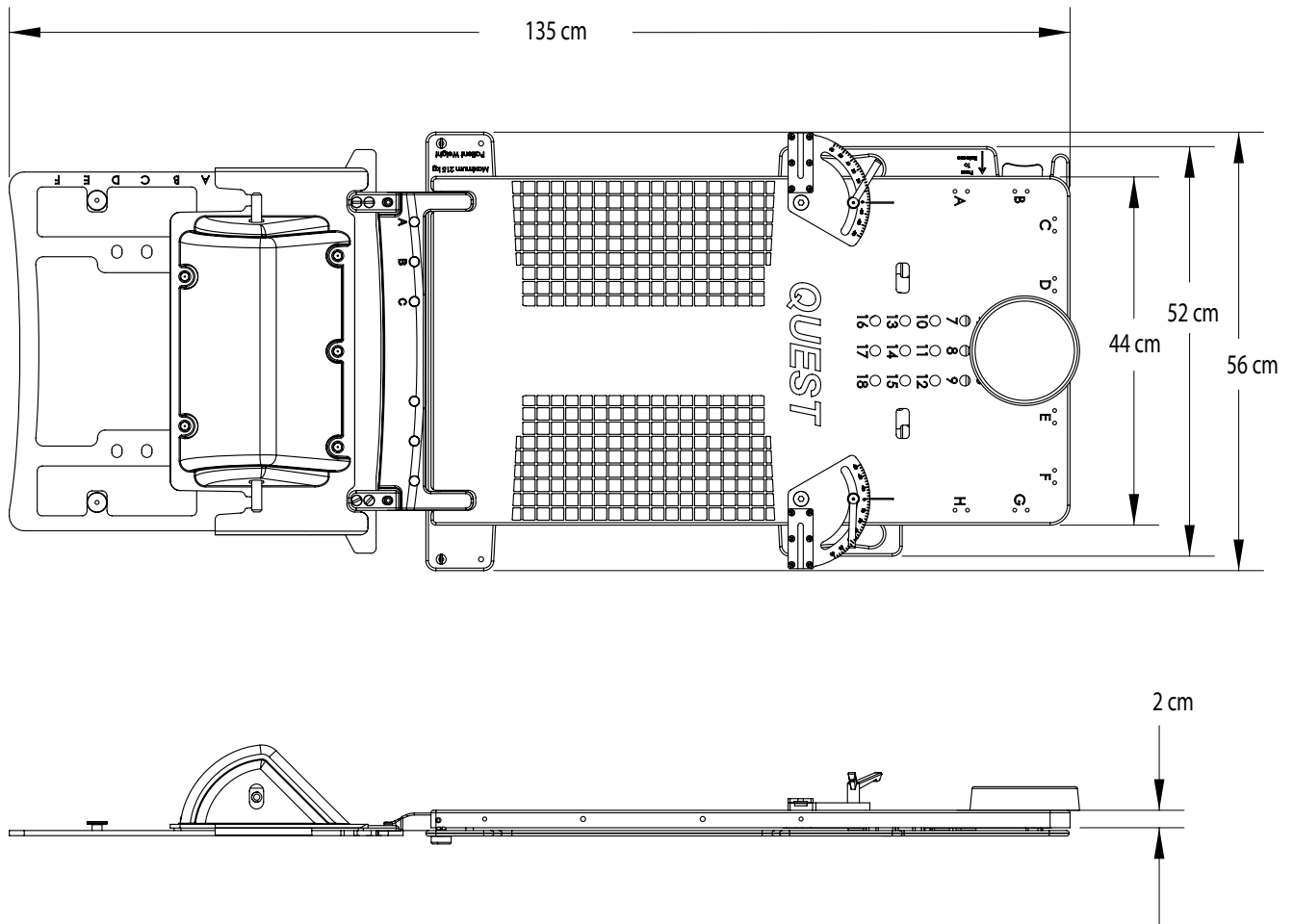
DO NOT place sharp objects on the QUEST.

Periodically check all fasteners for tightness

SPECIFICATIONS

WEIGHT LIMIT: 215 kg (475 lb) Uniformly Distributed Load

PATIENT ANGLES: 1.25, 5, 7.5, 10, 15, 20 and 25 degrees



SETUP SHEET

RT 4543 QUEST™ Breastboard or RT-4543SOLID QUEST™ Breastboard with Solid Treatment Panels

Patient Name:

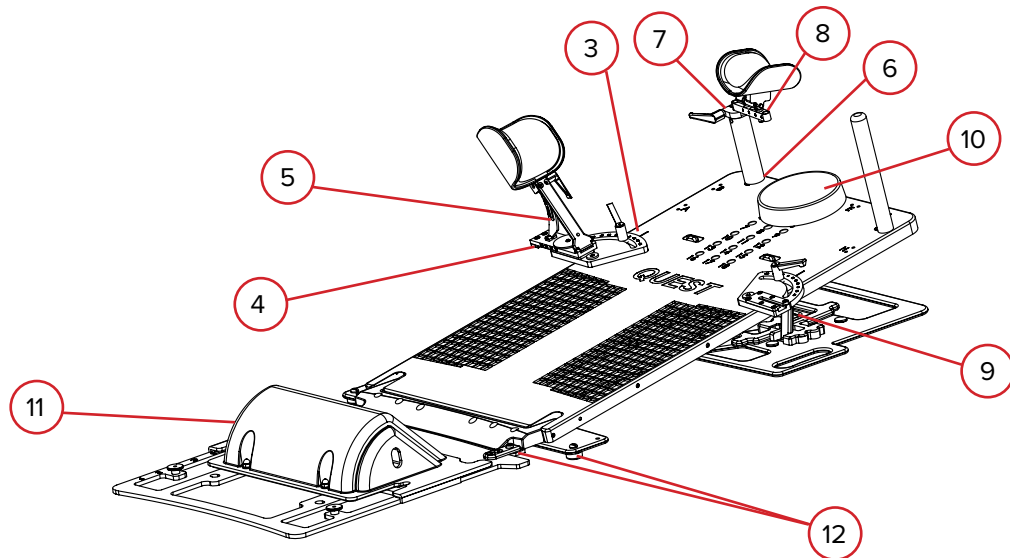
Patient ID #:

Setup by:

Physician:

Date:

Comments:



1. Check which Breastboard used: QUEST™ Breastboard RT-4543 or QUEST™ Breastboard RT-4543SOLID
2. Used with the ArmShuttle: **YES** **NO** (if yes use ArmShuttle Setup page and skip to 8)
3. Angle of Arm Support Clocking Plate: Patient's Left Patient's Right
4. Location of Arm Support post (letter from A to D): Patient's Left Patient's Right
5. Height of Arm Support (number from 1 to 12): Patient's Left Patient's Right
6. Location of Wrist Support posts (letter from A to H): Patient's Left Patient's Right
7. Height of Wrist Support posts (as measured in cm.): Patient's Left Patient's Right
8. Wrist Support Cup setting (number from 1 to 4):
9. Angle of Breastboard body (circle one): **1.25°** **5°** **7.5°** **10°** **15°** **20°** **25°**
10. Location of head cup (Number from 1 to 25):
11. Is a Bottom Stopper used? **YES** **NO** If yes, what setting?
12. Indexed to simulation or treatment table? **YES** **NO** If yes, what setting?



440 Church Road
Avondale, PA 19311 USA
www.Qfix.com

☎ +1 610.268.0585 / 800.526.5247

☎ +1 610.268.0588 / 800.831.8174

✉ sales@Qfix.com