



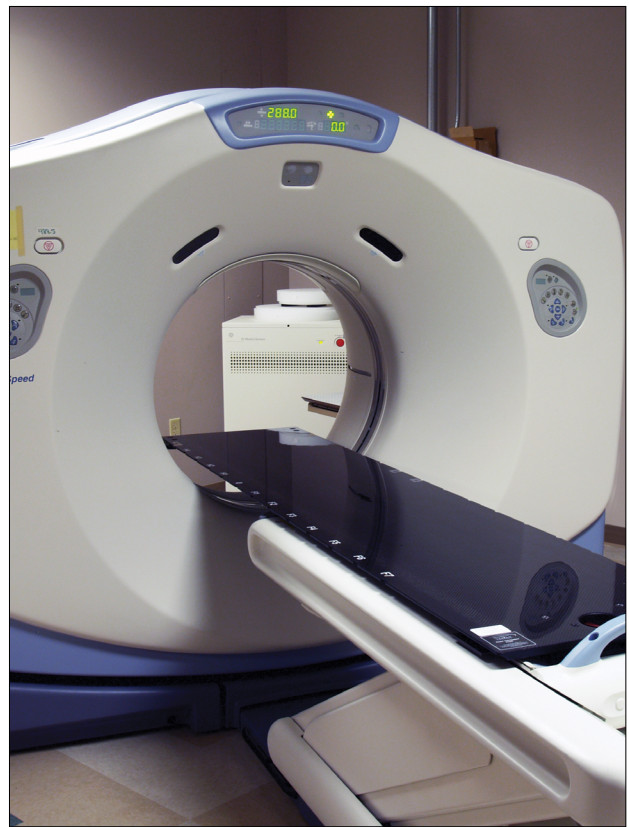
INSTALLATION MANUAL

RT-4550GEH, RT-4550GEL, RT-4550GEP,
RT-4550GEC, RT-4550GER, RT-4550KVGEH,
RT-4550KVGER, RT-4550KVGEH, RT-4550KVGEH,
RT-4550KVGEH

QUANTUM™ & kVue™ CT Overlays for GE®




kVue™ CT Overlay on GE LightSpeed



QUANTUM™ CT Overlay on GE LightSpeed



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

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GE® is a registered trademark of the General Electric Company.

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GENERAL PRECAUTIONS

WARNING STATEMENTS

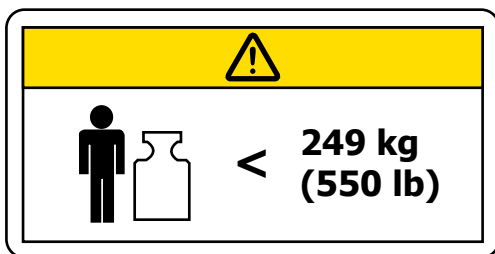
! WARNING ! NO MODIFICATION OF THIS EQUIPMENT IS ALLOWED. IF ANY PART OF THIS DEVICE EXPERIENCES A CATASTROPHIC LOAD, APPEARS DAMAGED OR FUNCTIONS IMPROPERLY, DISCONTINUE USE IMMEDIATELY AND CONTACT QFIX AT +1 484-720-6054 OR TECHSUPPORT@QFIX.COM.

ADDITIONAL WARNINGS

- DO NOT exceed pedestal manufacturer's load rating.
- Maximum patient weight of 550 pounds (249 kg) or pedestal load rating, whichever is less.
- Pinch points may exist and are indicated on CT Overlay.
- Attention is necessary when moving the cradle and CT Insert into the Gantry Bore to ensure that pinch point risk to hands and fingers are avoided.
- Use of this product in a manner not specified in the User Manual or Installation Manual may be unsafe and is not recommended.
- Use of unapproved devices or attachments may be unsafe and is not recommended.

WARNING LABELS & DESCRIPTIONS

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



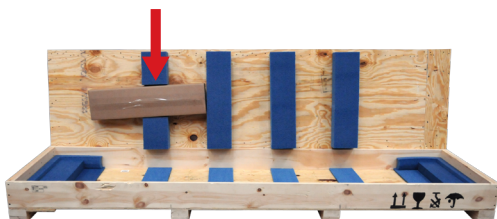
LOAD RATING

DO NOT exceed 249 kg (550 lb) uniformly distributed load.



PINCH POINTS

Pinch points may exist and are indicated by one of these symbols.

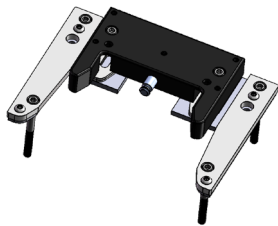





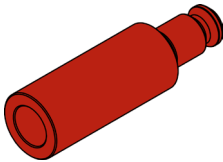
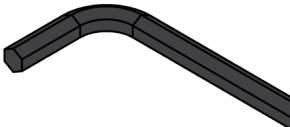
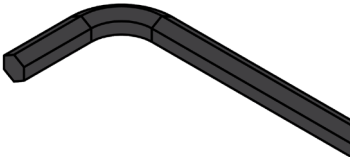


Hardware kit for CT is located in a cardboard box in the lid of the crate, indicated by the photo on the left.

GE HiSpeed CT & GE HiSpeed / LightSpeed CT INSTALLATION MANUAL

INSTALLATION

PARTS PROVIDED

 <p>(1) Foot End Latch Assembly</p>	 <p>(4) 1/4-20 x 2.5" SHCS SS</p>
 <p>(1) Qfix Locating Bar</p>	 <p>(2) 1/4-20 x 1.5" SHCS SS (extras if needed)</p>
 <p>(1) Centering Fixture</p>	 <p>(2) 1/4-20 x 1.25" SHCS SS (extras if needed)</p>
 <p>(1) Alignment Pin</p>	 <p>(1) 1/8" Allen wrench</p>
 <p>(1) 3/16" Allen wrench</p>	<p>TOOLS REQUIRED (not provided):</p> <p>Coin, US Quarter, or Equal</p>

INSTALLATION

INSTALLATION OF FOOT END MOUNTING ASSEMBLY

1. Remove the current overlay and all of the attachment hardware found on the cradle.
2. Remove covers on cradle, and remove screws using Allen wrench from top 4 locations on the foot end (Fig. 1).

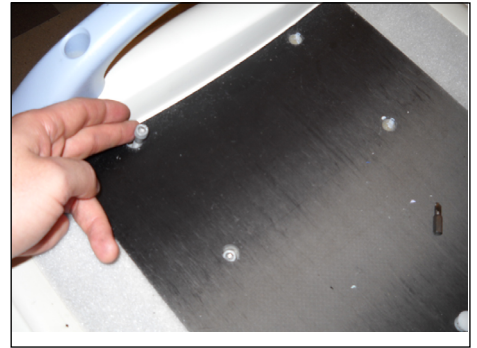


Fig. 1

3. Attach the Qfix Foot End Mounting Assembly to the cradle. Use (4) ¼-20 x 2.5 Socket Head Screws to attach to cradle. The Foot Mount assembly should be placed on the holes furthest from the head of the unit (Fig. 2).

Socket Head Screws

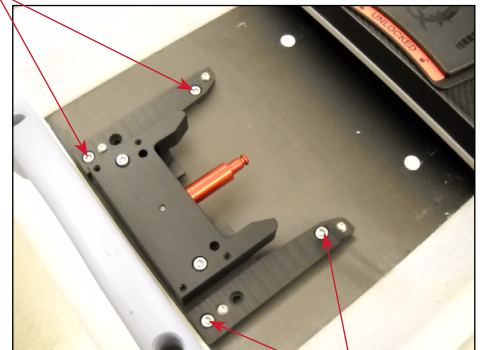


Fig. 2

Socket Head Screws

4. Image to the right is the installed Foot End Mounting Assembly (Fig. 3).

5. Center the CT on the cradle.

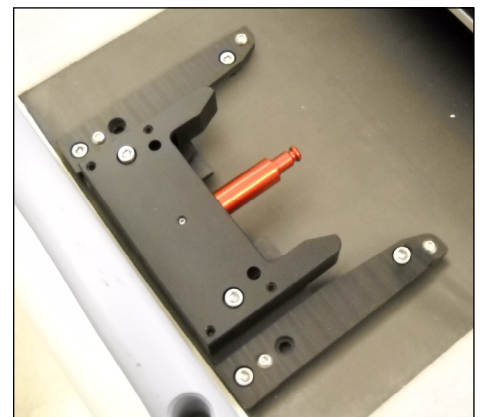


Fig. 3

INSTALLATION

ADJUST HEIGHT OF THE FOOT END MOUNTING BLOCK

The objective of this Section, Steps 1–7, is to verify that the Red Alignment Pin, inserted on the CT cradle, can slide freely onto the Foot Latch Mounting Block without binding (Fig. 4).

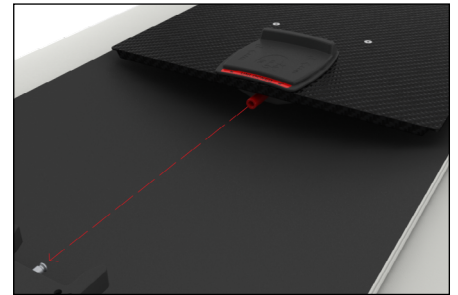


Fig. 4

1. Push the male end of the red Alignment Pin into the socket in the block on the underside of the CT Overlay (Fig. 5) until the handle on the topside reads “LOCKED” (Fig. 6).



Fig. 5



Fig. 6

2. Place the CT Overlay on the CT cradle overhanging the head end by 3–4 inches (Fig. 7). Align the CT Overlay on the centerline of the CT cradle (Fig. 8).



Fig. 7



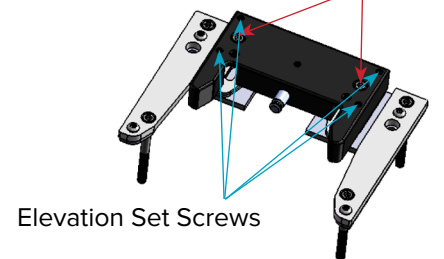
Fig. 8

INSTALLATION

ADJUST HEIGHT OF THE FOOT END MOUNTING BLOCK

3. Slide the CT Overlay towards the CT cradle foot end until the red Alignment Pin is close to the metal Pin on the Foot End Mounting Assembly. At this point, adjustment will be needed to allow the CT Overlay to engage the Foot Latch properly.
 - a. Begin by adjusting the height of the Foot Latch Mounting Block on the existing CT, by loosening the Locking Screws (2) ¼-20 (Fig. 9).
 - b. Adjust the height of the Mounting Block using the (4) Elevation Set Screws (found on the mounting block) using the ⅛ in. Allen Wrench (provided) (Fig. 10).
 - c. Adjust the Elevation Set Screws as needed then engage the Mounting Block Pin into the red Alignment Pin and re-tighten the Locking Screws while holding the Mounting Block parallel, from side to side, to the CT Overlay bottom.
 - d. Lock the Foot Latch Mounting Block by tightening the (2) ¼-20 x 1 Locking Screws using ⅜ in. Allen wrench (provided).
 - e. Check that the Foot Latch Mounting Block is parallel to the Spacer Plate as the screws are tightened. If longer bolts are needed, two sets of longer ¼-20 Locking Screws are supplied.
4. Verify that the CT Overlay can be pushed on and off the Mounting Block Pin without binding by engaging and releasing the CT Overlay. Make sure the CT Overlay stays centered on the cradle while doing this. Verify that the Mounting Block Pin is parallel to the Alignment Pin and at the correct height.
 - (If the Alignment Pin is binding, you may adjust the tilt of the Mounting Block Pin by first loosening the Mounting Block Screws. Then equally adjust the two Elevation Set Screws up or down with the ⅛" Allen Key to change the tilt until level with the Alignment Pin and the CT cradle. Gently re-tighten the two Mounting Block Screws. (DO NOT OVERTIGHTEN). Go back to step 3.
5. Remove the red Alignment Pin from the CT Overlay by pulling back on the release handle in the direction indicated by the unlock symbols.
6. Slide the CT Overlay all the way towards the foot end until the handle confirms it is locked on. When green "LOCKED" shows and no red, it is locked on (Fig. 11).
7. To remove, pull/push on the handle to unlock and continue to push the CT Overlay 3–4 in. away from the latch to verify it functions properly (Fig. 12).

Fig. 9 Locking Screws



Elevation Set Screws

Elevation Set Screws

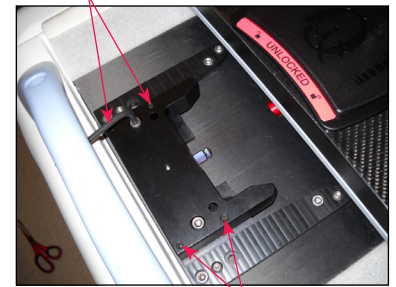


Fig. 10 Elevation Set Screws



Fig. 11



Fig. 12 PBR10010

INSTALLATION

ADJUST HEAD END ALIGNMENT ECCENTRICS

The Head End Alignment Eccentrics provide a center and gripping action for the CT Overlay Head End to the CT cradle. As you rotate the Eccentrics equally on both sides of the CT Overlay you can adjust the fit to the CT cradle. A fit that holds the CT Overlay firmly centered and which also slides on/off the CT cradle is the goal of the adjustment (Fig. 13 & Fig. 14).

Guides and Eccentrics on bottom of CT Insert



Fig. 13

Note how the Eccentric grips the cradle

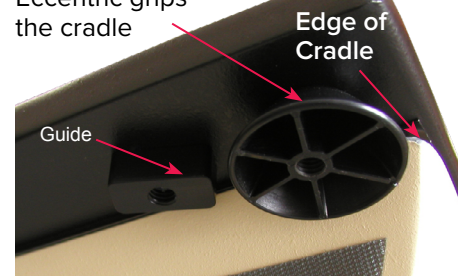


Fig. 14

1. Set the CT Overlay on CT cradle overhanging the head end by 3–4 in (Fig. 15).



Fig. 15



Fig. 16

INSTALLATION

ADJUST HEAD END ALIGNMENT ECCENTRICS

2. Align the CT Overlay on the centerline of the CT cradle (Fig. 16).
3. Slide towards CT cradle Foot End engaging the Foot Latch Assembly.
4. Rotate the eccentrics until the CT Overlay holds the CT cradle firmly centered and also slides on/off the CT cradle (Fig. 17).

Rotate eccentrics to adjust fit.
Always adjust both eccentrics to equal positions.



Fig. 17

5. Tighten the plastic flat head screw using a coin to firmly secure the eccentrics (Fig. 18).



Fig. 18

6. Test the adjustments for fit and sliding action and also test the latching action.

INSTALLATION

CENTERING CT OVERLAY ON THE CT CRADLE

1. Install the Locating Bar on the CT Overlay and then set the Centering Fixture Bar on the Locating Bar at the head or foot end of the CT Overlay (Fig. 19).

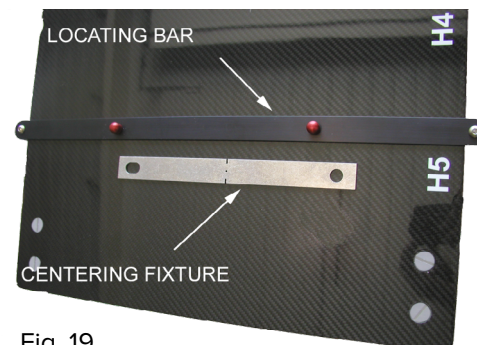


Fig. 19

2. Use the CT Laser alignment system to define the center of the CT Overlay on the head of the Overlay. Use the gripping eccentrics to center the Overlay on the beam. (see Step 14) (Fig. 20).

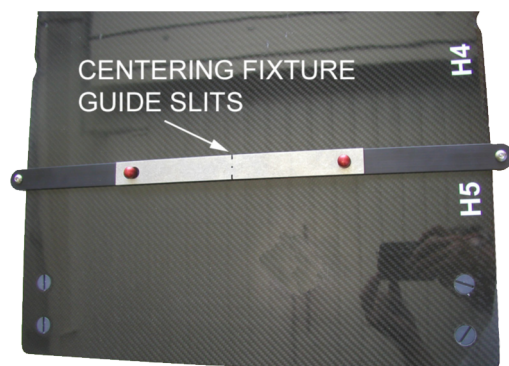


Fig. 20

INSTALLATION VERIFICATION

1. Verify the cradle can travel the full length of the “Z” axis without issue. Repeat for both mechanical and manual movement (Fig. 21).
2. Verify that the QA phantom holder can attach/detach to the CT without issue.
3. Verify the cradle can travel the full height of the ‘Y’ axis without issue (Fig. 21).

! NOTE ! Qfix recommends running a test scan at iso-center following installation verification.

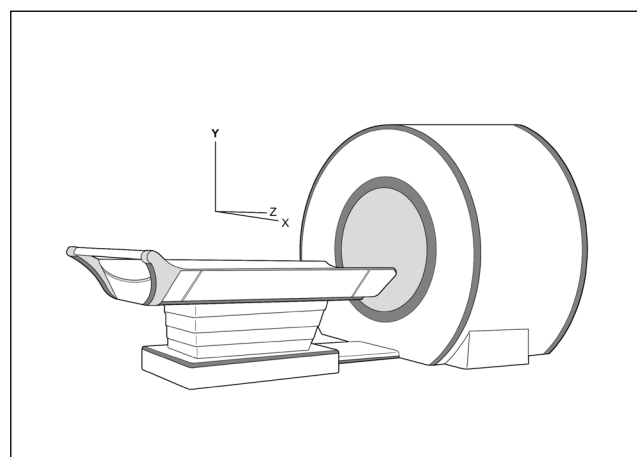


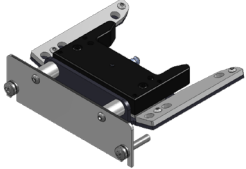


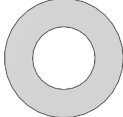

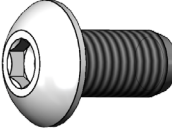
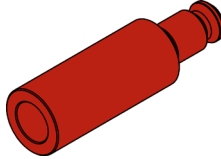

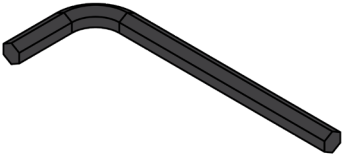


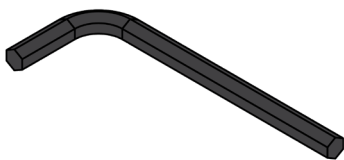
Fig. 21

GE ProSpeed

INSTALLATION MANUAL

INSTALLATION

PARTS PROVIDED

 <p>(1) Foot End Latch Assembly</p>	 <p>(2) M8 Lock Washer</p>
 <p>(1) Qfix Locating Bar</p>	 <p>(2) M8 Flat Washer</p>
 <p>(1) Centering Fixture</p>	 <p>(4) 10-32 x .375" Button Head Screw Cap</p>
 <p>(1) Alignment Pin</p>	 <p>(2) 1/4-20 x 1.25" SHCS SS (extras if needed)</p>
 <p>(1) 3/16" Allen wrench</p>	 <p>(2) 1/4-20 x 1.5" SHCS SS (extras if needed)</p>
 <p>(2) M8 x 40 Pan Head Screw</p>	 <p>(1) 1/8" Allen wrench</p>

INSTALLATION

INSTALLATION OF FOOT END MOUNTING ASSEMBLY

1. Remove screw covers (2) from CT cradle as shown in the picture on the right (Fig. 22).

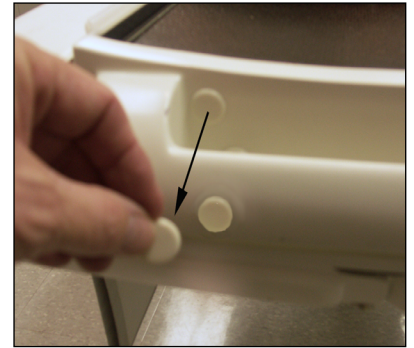


Fig. 22

2. Remove the CT cradle screws (2) from the hole.
3. Install M8 screws with flat and lock washers (2) into the CT cradle holes. Leave the screws loose (Fig. 23).

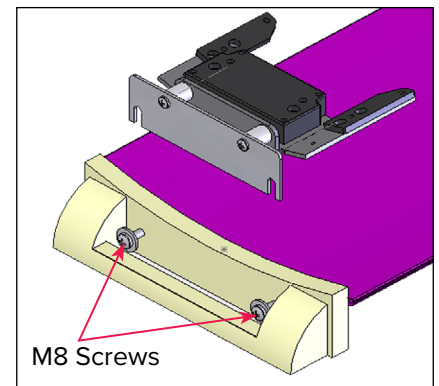


Fig. 23

4. Lower the foot end latch assembly onto the foot end of the cradle with the plate slots engaging the M8 screws (Fig. 24).
5. Tighten the M8 screws (Fig. 24).

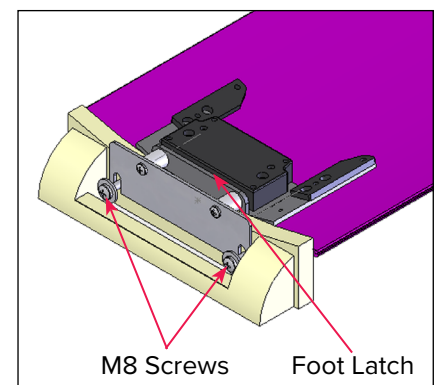


Fig. 24

INSTALLATION

ADJUST HEIGHT OF THE FOOT END MOUNTING BLOCK

The objective of this Section, Steps 1–7, is to verify that the Red Alignment Pin, inserted on the CT cradle, can slide freely onto the Foot Latch Mounting Block without binding (Fig. 25).

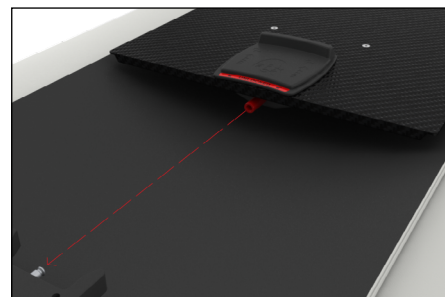


Fig. 25

1. Push the male end of the red Alignment Pin into the socket in the block on the underside of the CT Overlay (Fig. 26) until the handle on the topside reads “LOCKED” (Fig. 27).

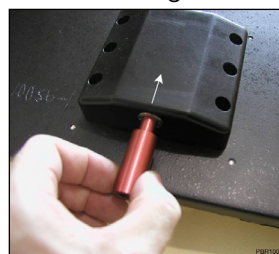


Fig. 26

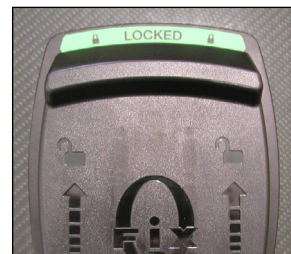


Fig. 27

2. Place the CT Overlay on the CT cradle overhanging the head end by 3–4 inches (Fig. 28). Align the CT Overlay on the centerline of the CT cradle (Fig. 29).

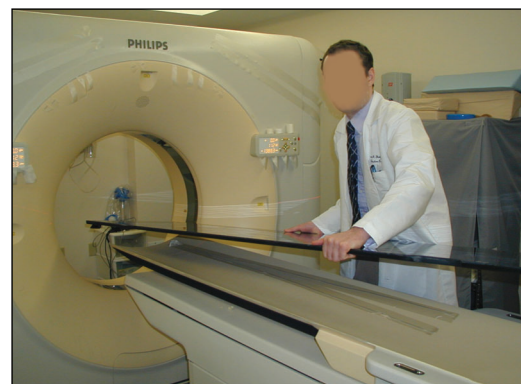


Fig. 28



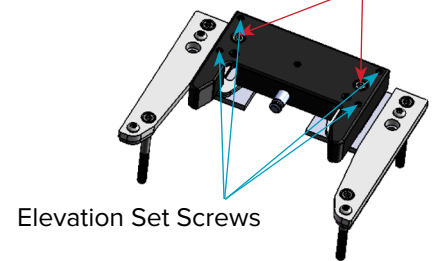
Fig. 29

INSTALLATION

ADJUST HEIGHT OF THE FOOT END MOUNTING BLOCK

3. Slide the CT Overlay towards the CT cradle foot end until the red Alignment Pin is close to the metal Pin on the Foot End Mounting Assembly. At this point, adjustment will be needed to allow the CT Overlay to engage the Foot Latch properly.
 - a. Begin by adjusting the height of the Foot Latch Mounting Block on the existing CT, by loosening the Locking Screws (2) ¼-20 (Fig. 30).
 - b. Adjust the height of the Mounting Block using the (4) Elevation Set Screws (found on the mounting block) using the ⅛ in. Allen Wrench (provided) (Fig. 31).
 - c. Adjust the Elevation Set Screws as needed then engage the Mounting Block Pin into the red Alignment Pin and re-tighten the Locking Screws while holding the Mounting Block parallel, from side to side, to the CT Overlay bottom.
 - d. Lock the Foot Latch Mounting Block by tightening the (2) ¼-20 x 1 Locking Screws using ⅜ in. Allen wrench (provided).
 - e. Check that the Foot Latch Mounting Block is parallel to the Spacer Plate as the screws are tightened. If longer bolts are needed, two sets of longer ¼-20 Locking Screws are supplied.
4. Verify that the CT Overlay can be pushed on and off the Mounting Block Pin without binding by engaging and releasing the CT Overlay. Make sure the CT Overlay stays centered on the cradle while doing this. Verify that the Mounting Block Pin is parallel to the Alignment Pin and at the correct height.
 - (If the Alignment Pin is binding, you may adjust the tilt of the Mounting Block Pin by first loosening the Mounting Block Screws. Then equally adjust the two Elevation Set Screws up or down with the ⅛" Allen Key to change the tilt until level with the Alignment Pin and the CT cradle. Gently re-tighten the two Mounting Block Screws. (DO NOT OVERTIGHTEN). Go back to step 3.
5. Remove the red Alignment Pin from the CT Overlay by pulling back on the release handle in the direction indicated by the unlock symbols.
6. Slide the CT Overlay all the way towards the foot end until the handle confirms it is locked on. When green "LOCKED" shows and no red, it is locked on (Fig. 32).
7. To remove, pull/push on the handle to unlock and continue to push the CT Overlay 3–4 in. away from the latch to verify it functions properly (Fig. 33).

Fig. 30 Locking Screws



Elevation Set Screws

Elevation Set Screws

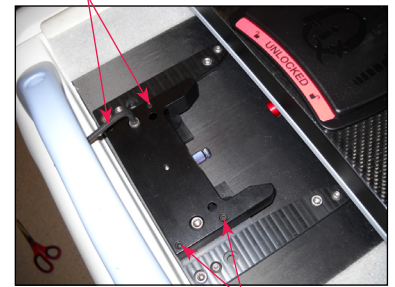


Fig. 31 Elevation Set Screws



Fig. 32

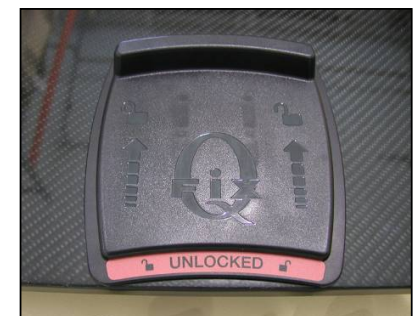


Fig. 33 PBR10010

INSTALLATION

REMOVE OR MODIFY THE CT CRADLE RESTRAINT CLOTH PLASTIC EXTRUSION

- If the CT is to be used for Simulation Studies ONLY go to proceed to Step 1.
- If the CT is to be used for Simulation Studies AND CT Diagnostic Studies (CT Overlay occasionally removed) proceed to Step 5.

1. Remove the GE CT Cradle Restrain Cloths (Fig. 34).
2. Remove the existing Plastic Set Screws constraining the GE CT Cradle Restraint Cloth Plastic Extrusion at the head end of the cradle (Fig. 35).
3. Remove the Restraint Cloth Plastic Extrusion from each side of the cradle (Store the GE CT Cradle Restraint Cloths and Restraint Cloth Plastic Extrusions in a convenient place for future use)
4. Reinstall the Plastic Set Screws (2) in the GE CT Cradle

Skip to Step 1 in next Section “Adjust Head End Alignment Eccentrics.”

5. Remove the GE CT Cradle Restraint Cloths, store the GE CT Cradle Restraint Cloths in a convenient place for future use.
6. Remove the existing Plastic Set Screws constraining the GE CT Cradle Restraint Cloth Plastic Extrusion at the head end of the cradle (Fig. 36).
7. Slide the Restraint Cloth Plastic Extrusion (2) towards the CT and using a hacksaw or equivalent tool, cut off 1.5" (38 mm) from the length of the extrusion.
8. Slide the Restraint Cloth Plastic Extrusion (2) into the CT cradle, and secure by reinstalling the Plastic Set Screws (2) into the GE CT cradle.

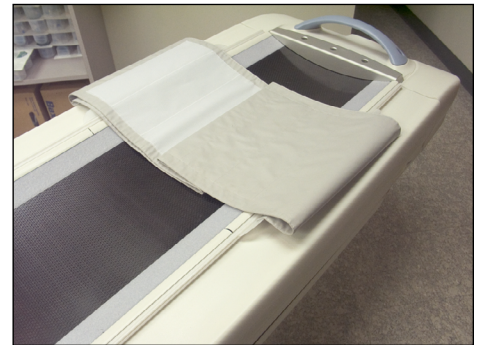


Fig. 34

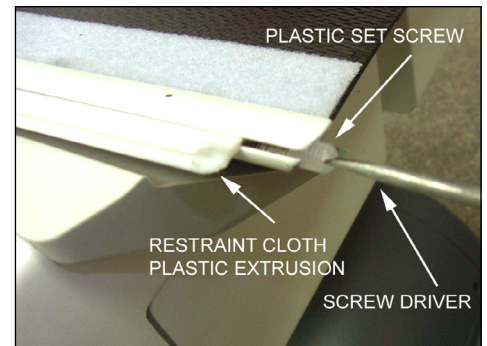


Fig. 35

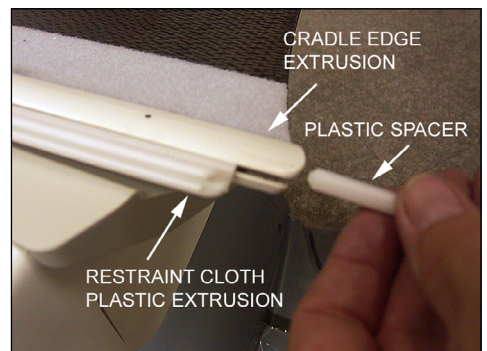


Fig. 36

INSTALLATION

ADJUST HEAD END ALIGNMENT ECCENTRICS

The Head End Alignment Eccentrics provide a center and gripping action for the CT Overlay Head End to the CT cradle. As you rotate the Eccentrics equally on both sides of the CT Overlay you can adjust the fit to the CT cradle. A fit that holds the CT Overlay firmly centered and which also slides on/off the CT cradle is the goal of the adjustment (Fig. 37 & Fig. 38).

Guides and Eccentrics on bottom of CT Insert

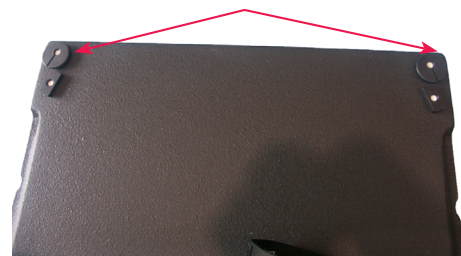


Fig. 37

Note how the Eccentric grips the cradle

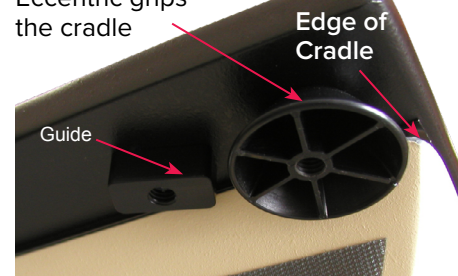


Fig. 38

1. Set the CT Overlay on CT cradle overhanging the head end by 3–4 in (Fig. 39).

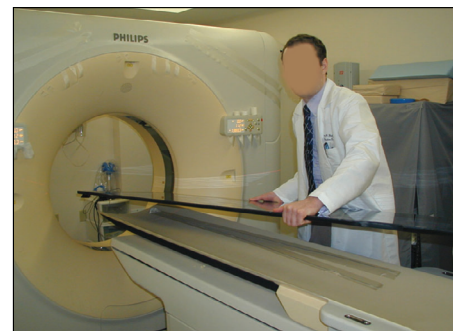


Fig. 39

2. Align the CT Overlay on the centerline of the CT cradle (Fig. 40).



Fig. 40

INSTALLATION

ADJUST HEAD END ALIGNMENT ECCENTRICS

3. Slide towards CT cradle Foot End engaging the Foot Latch Assembly.
4. Rotate the eccentrics until the CT Overlay holds the CT cradle firmly centered and also slides on/off the CT cradle (Fig. 41).

Rotate eccentrics to adjust fit.
Always adjust both eccentrics to equal positions.

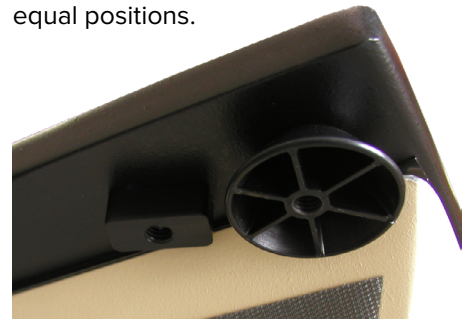


Fig. 41

5. Tighten the plastic flat head screw using a coin to firmly secure the eccentrics (Fig. 42).



Fig. 42

6. Test the adjustments for fit and sliding action and also test the latching action.

INSTALLATION

CENTERING CT OVERLAY ON THE CT CRADLE

1. Install the Locating Bar on the CT Overlay and then set the Centering Fixture Bar on the Locating Bar at the head or foot end of the CT Overlay (Fig. 43).

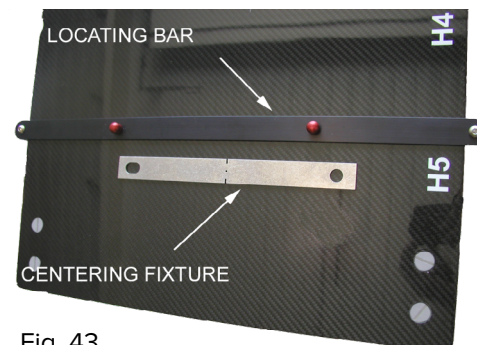


Fig. 43

2. Use the CT Laser alignment system to define the center of the CT Overlay on the head of the Overlay. Use the gripping eccentrics to center the Overlay on the beam. (see Step 1 in “Adjust Head End Alignment Eccentrics” Section) (Fig. 44).

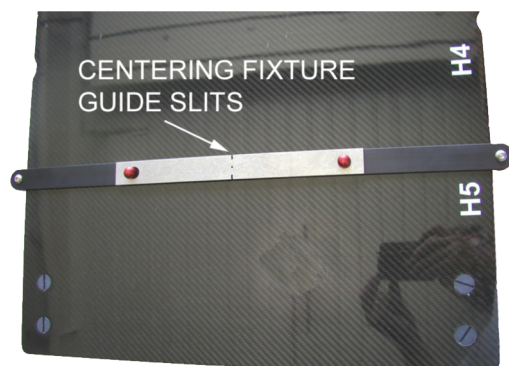


Fig. 44

INSTALLATION VERIFICATION

1. Verify the cradle can travel the full length of the “Z” axis without issue. Repeat for both mechanical and manual movement (Fig. 45).
2. Verify that the QA phantom holder can attach/detach to the CT without issue.
3. Verify the cradle can travel the full height of the ‘Y’ axis without issue (Fig. 45).

! NOTE ! Qfix recommends running a test scan at iso-center following installation verification.

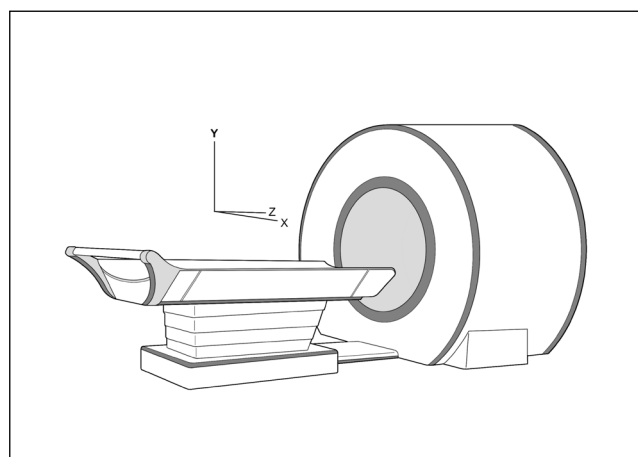


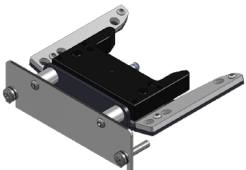



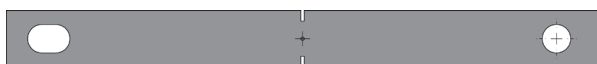

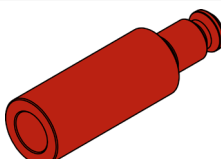
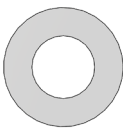
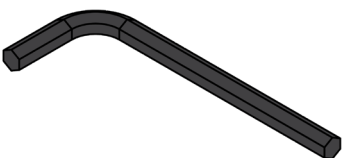

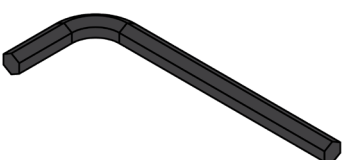

Fig. 45

GE LightSpeed VCT/RT

INSTALLATION MANUAL

INSTALLATION

PARTS PROVIDED

 <p>(1) Foot End Latch Assembly</p>	 <p>(2) 1/4-20 x 1.25" SHCS SS</p>
 <p>(1) Qfix Locating Bar</p>	 <p>(2) 1/4-20 x 1.5" SHCS SS</p>
 <p>(1) Centering Fixture</p>	 <p>(2) M8 Lock Washer</p>
 <p>(1) Alignment Pin</p>	 <p>(2) M8 Flat Washer</p>
 <p>(1) 3/16" Allen wrench</p>	 <p>(2) M8 x 70 SHCS</p>
 <p>(1) 1/8" Allen wrench</p>	 <p>(2) Aluminum Spacer</p>
<p>TOOLS REQUIRED (not provided):</p> <p>6 mm Allen Wrench, 3/8" wrench, Flathead screwdriver or Coin, US Quarter, or Equal</p>	

INSTALLATION

REMOVE OR MODIFY THE CT CRADLE RESTRAINT CLOTH PLASTIC EXTRUSION

- If the CT is to be used for Simulation Studies ONLY go to proceed to Step 1.
- If the CT is to be used for Simulation Studies AND CT Diagnostic Studies (CT Overlay occasionally removed) proceed to Step 5.

1. Remove the GE CT Cradle Restrain Cloths (Fig. 46).
2. Remove the existing Plastic Set Screws constraining the GE CT Cradle Restraint Cloth Plastic Extrusion at the head end of the cradle (Fig. 47).
3. Remove the Restraint Cloth Plastic Extrusion from each side of the cradle (Store the GE CT Cradle Restraint Cloths and Restraint Cloth Plastic Extrusions in a convenient place for future use)
4. Reinstall the Plastic Set Screws (2) in the GE CT Cradle

Skip to Step 1 in next Section “Install Foot End Latch Assembly Components”.

5. Remove the GE CT Cradle Restraint Cloths, store the GE CT Cradle Restraint Cloths in a convenient place for future use.
6. Remove the existing Plastic Set Screws constraining the GE CT Cradle Restraint Cloth Plastic Extrusion at the head end of the cradle (Fig. 48).
7. Slide the Restraint Cloth Plastic Extrusion (2) towards the CT and using a hacksaw or equivalent tool, cut off 1.5" (38 mm) from the length of the extrusion.
8. Slide the Restraint Cloth Plastic Extrusion (2) into the CT cradle, and secure by reinstalling the Plastic Set Screws (2) into the GE CT cradle.

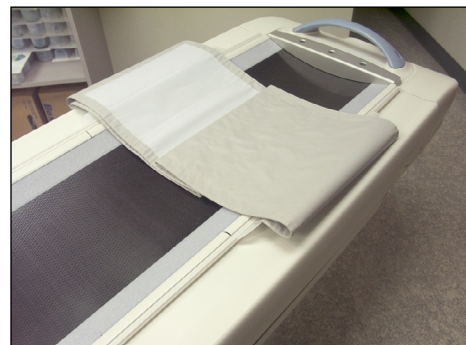


Fig. 46

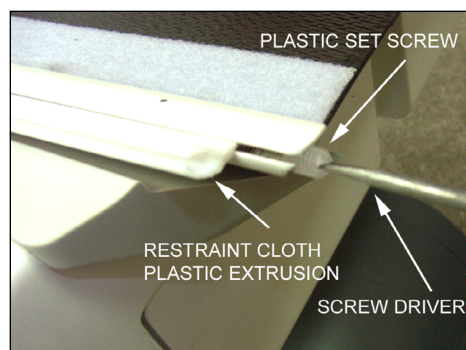


Fig. 47

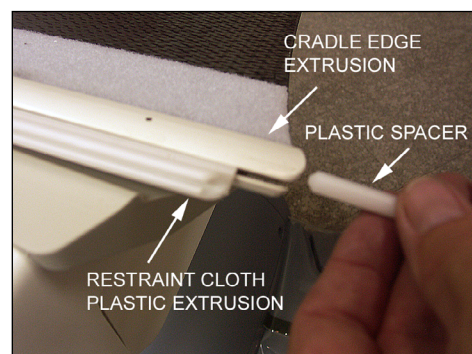


Fig. 48

INSTALLATION

INSTALL FOOT END LATCH ASSEMBLY COMPONENTS

The CT Foot End Mounting Assembly (Part 2) will be mounted to the CT cradle. The CT Overlay Latch Mounting Assembly (Part 1) on the Setup Plate will be used to adjust the height of the CT Foot End Mounting Assembly (Part 2) as needed.

1. Remove the center mounting screw from the IV Pole Cross Bar and the handle mounting screws (2) using a 6 mm Allen Wrench (not provided) (Fig. 49).



Fig. 49

2. Remove the CT cradle cover. Note that the CT cradle cover has a hook into slot securing at the end, so the cover must be raised at the IV Pole Cross Bar end and then slide off towards the IV Pole Cross Bar (Fig. 50 & 51).

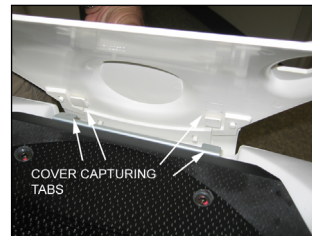


Fig. 50



Fig. 51

3. Remove the CT IV Pole Cross Bar (Fig. 52).



Fig. 52

INSTALLATION

INSTALL FOOT END LATCH ASSEMBLY COMPONENTS

4. Remove the CT cradle Center two Mounting Screws as shown (Fig. 53).

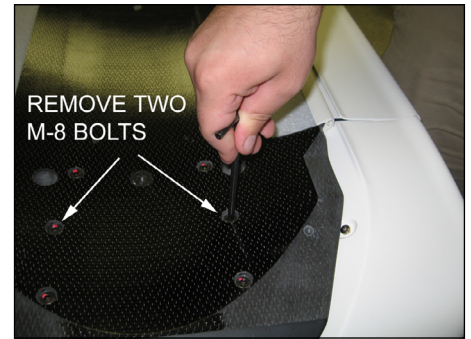


Fig. 53

5. Install Aluminum Spacers (2) in the counterboard holes for the Mounting Screws (Fig. 54).



Fig. 54

6. Place CT cradle Latch Assembly in place and secure with (1 each side) M8 x 70 Screw, Flat Washer, and Lock Washer. Tighten lightly (Fig. 55).



Fig. 55

7. Re-install the IV Pole Cross Bar, leaving the center screw lightly secured. Loosen the fasteners on CT Latch Assembly (Fig. 56).

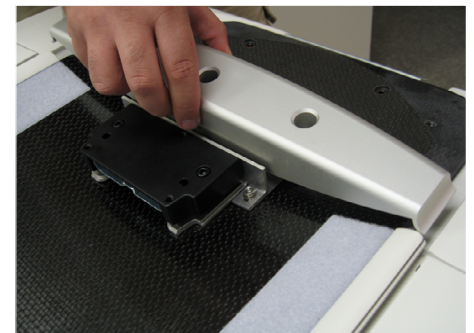


Fig. 56

INSTALLATION

INSTALL FOOT END LATCH ASSEMBLY COMPONENTS

8. Press CT Latch Assembly firmly against IV Pole Cross Bar and tighten fasteners firmly using $\frac{3}{8}$ " wrench (not provided) (Fig. 57).

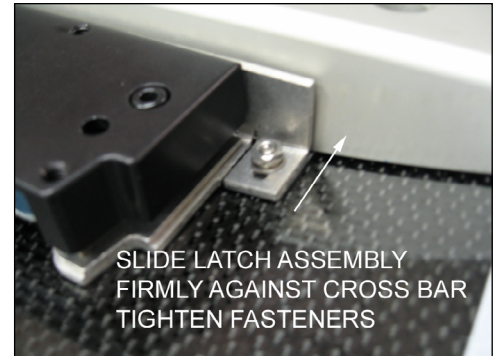


Fig. 57

INSTALLATION

ADJUST HEIGHT OF THE FOOT END MOUNTING BLOCK

The objective of this Section, Steps 1–7, is to verify that the Red Alignment Pin, inserted on the CT cradle, can slide freely onto the Foot Latch Mounting Block without binding (Fig. 58).

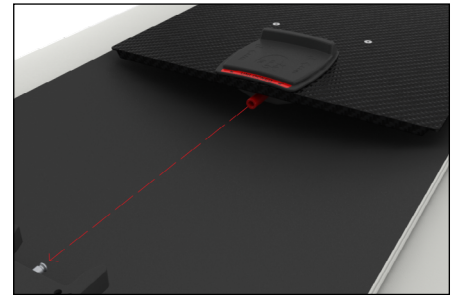


Fig. 58

1. Push the male end of the red Alignment Pin into the socket in the block on the underside of the CT Overlay (Fig. 59) until the handle on the topside reads “LOCKED” (Fig. 60).



Fig. 59



Fig. 60

2. Place the CT Overlay on the CT cradle overhanging the head end by 3–4 inches (Fig. 61). Align the CT Overlay on the centerline of the CT cradle (Fig. 62).

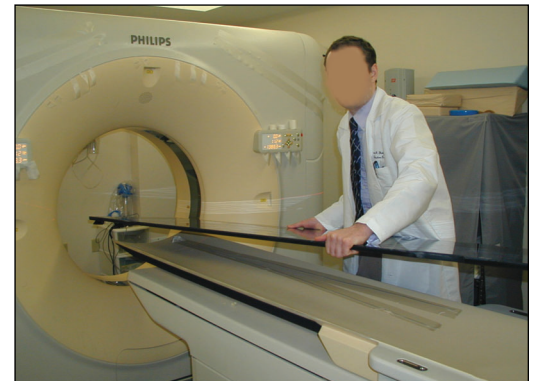


Fig. 61



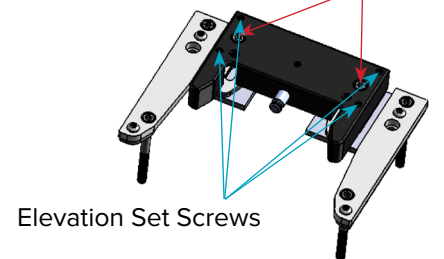
Fig. 62

INSTALLATION

ADJUST HEIGHT OF THE FOOT END MOUNTING BLOCK

3. Slide the CT Overlay towards the CT cradle foot end until the red Alignment Pin is close to the metal Pin on the Foot End Mounting Assembly. At this point, adjustment will be needed to allow the CT Overlay to engage the Foot Latch properly.
 - a. Begin by adjusting the height of the Foot Latch Mounting Block on the existing CT, by loosening the Locking Screws (2) ¼-20 (Fig. 63).
 - b. Adjust the height of the Mounting Block using the (4) Elevation Set Screws (found on the mounting block) using the ⅛ in. Allen Wrench (provided) (Fig. 64).
 - c. Adjust the Elevation Set Screws as needed then engage the Mounting Block Pin into the red Alignment Pin and re-tighten the Locking Screws while holding the Mounting Block parallel, from side to side, to the CT Overlay bottom.
 - d. Lock the Foot Latch Mounting Block by tightening the (2) ¼-20 x 1 Locking Screws using ⅜ in. Allen wrench (provided).
 - e. Check that the Foot Latch Mounting Block is parallel to the Spacer Plate as the screws are tightened. If longer bolts are needed, two sets of longer ¼-20 Locking Screws are supplied.
4. Verify that the CT Overlay can be pushed on and off the Mounting Block Pin without binding by engaging and releasing the CT Overlay. Make sure the CT Overlay stays centered on the cradle while doing this. Verify that the Mounting Block Pin is parallel to the Alignment Pin and at the correct height.
 - (If the Alignment Pin is binding, you may adjust the tilt of the Mounting Block Pin by first loosening the Mounting Block Screws. Then equally adjust the two Elevation Set Screws up or down with the ⅛" Allen Key to change the tilt until level with the Alignment Pin and the CT cradle. Gently re-tighten the two Mounting Block Screws. (DO NOT OVERTIGHTEN). Go back to step 3.
5. Remove the red Alignment Pin from the CT Overlay by pulling back on the release handle in the direction indicated by the unlock symbols.
6. Slide the CT Overlay all the way towards the foot end until the handle confirms it is locked on. When green "LOCKED" shows and no red, it is locked on (Fig. 65).
7. To remove, pull/push on the handle to unlock and continue to push the CT Overlay 3–4 in. away from the latch to verify it functions properly (Fig. 66).

Fig. 63 Locking Screws



Elevation Set Screws

Elevation Set Screws

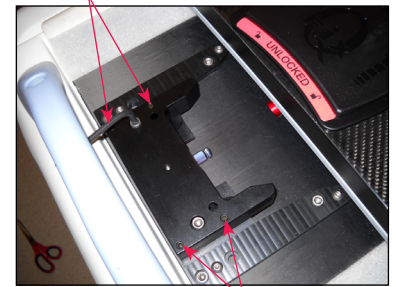


Fig. 64 Elevation Set Screws



Fig. 65

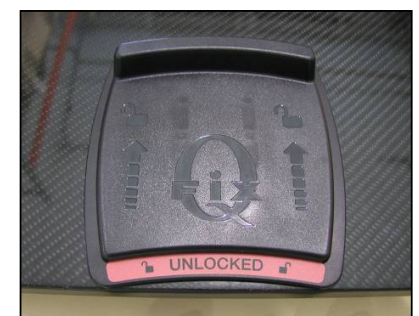


Fig. 66

INSTALLATION

ADJUST HEAD END CLAMPS

The CT Overlay's Head Alignment Clamp allows you to center the CT Overlay to the CT cradle (and ultimately the CT Bore) and provides a solid grip of the CT cradle Head End.

1. Mount the CT Overlay onto the CT cradle so that it hangs over the head end by 3 to 4 inches (Fig. 67).
2. Slide the CT Overlay towards the CT cradle foot end, engaging the Foot End Mount Assembly. Lock the CT cradle Latch Assembly.



Fig. 67

3. Looking at the Eccentric dials from underneath, rotate each Eccentric until the CT Overlay holds the CT cradle firmly centered and also slides on/off the CT cradle (Fig. 68).



Fig. 68

4. Firmly tighten the Plastic Flathead Screw using a flathead screwdriver or coin to secure the Eccentric (Fig. 69)

! NOTE ! The Head Alignment Eccentrics are shipped with the maximum clearance to the CT cradle.



Fig. 69

5. Test the adjustments for fit and sliding action. Also be sure to test the latching action.

INSTALLATION

CENTERING CT OVERLAY ON THE CT CRADLE

Head End Centering

1. Install the Locating Bar on the CT Overlay and then set the Centering Fixture Bar on the Locating Bar at the head or foot end of the CT Overlay (Fig. 70).

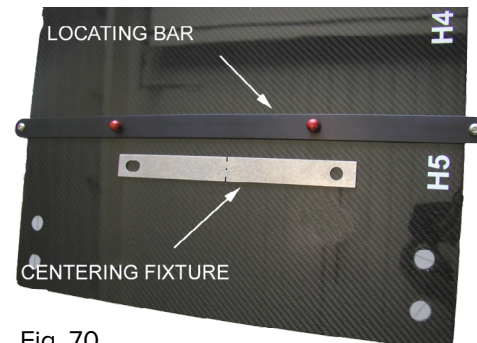


Fig. 70

2. Use the CT Laser alignment system to define the center of the CT Overlay on the head of the Overlay. Use the gripping eccentrics (see Fig. 68) to center the Overlay on the beam. (Fig. 71).

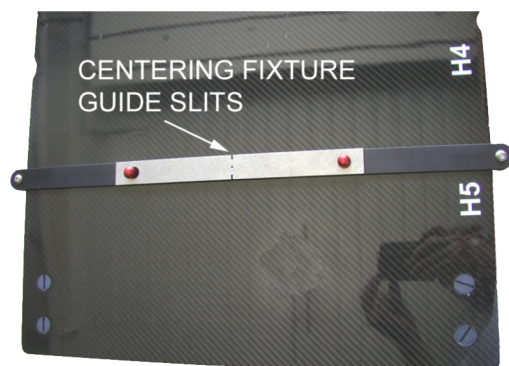


Fig. 71

INSTALLATION

CENTERING CT OVERLAY ON THE CT CRADLE

Foot End Centering

1. Set the Locating Bar on the CT Overlay at the Foot End of the CT. Place the Centering Adapter on the Locating Bar. Using the CT Laser Alignment system, determine where the alignment beam hits the Centering Fixture guide slits (Fig. 72).

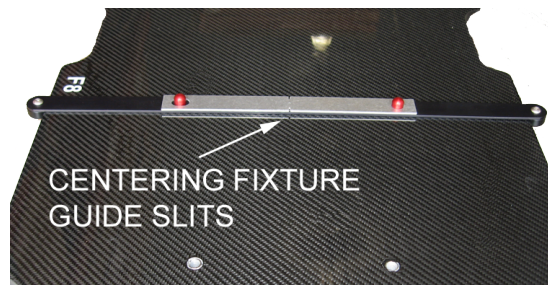


Fig. 72

2. Loosen the (2) M8 Mounting Screws and slide Latch Assembly to center the CT Overlay in the alignment beam. Firmly tighten the (2) M8 Mounting Screws (Fig. 73).



Fig. 73

INSTALLATION

INSTALL THE REAR COVER AND HANDLE

1. Align the rear cover to the bottom securing tabs (Fig. 74) and rotate into place (Fig. 75).

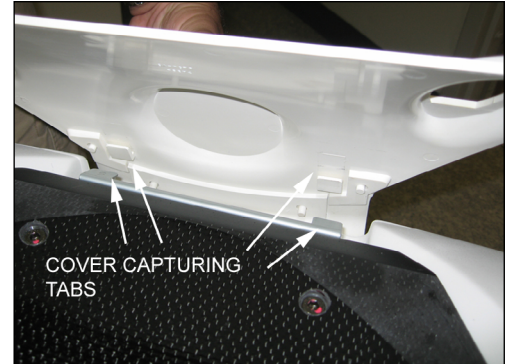


Fig. 74



Fig. 75

2. Install the handle and tighten the fasteners into place (Fig. 76).



Fig. 76

INSTALLATION

INSTALLATION VERIFICATION

1. Verify the cradle can travel the full length of the “Z” axis without issue. Repeat for both mechanical and manual movement (Fig. 77).
2. Verify that the QA phantom holder can attach/detach to the CT without issue.
3. Verify the cradle can travel the full height of the ‘Y’ axis without issue (Fig. 77).

! NOTE ! Qfix recommends running a test scan at iso-center following installation verification.

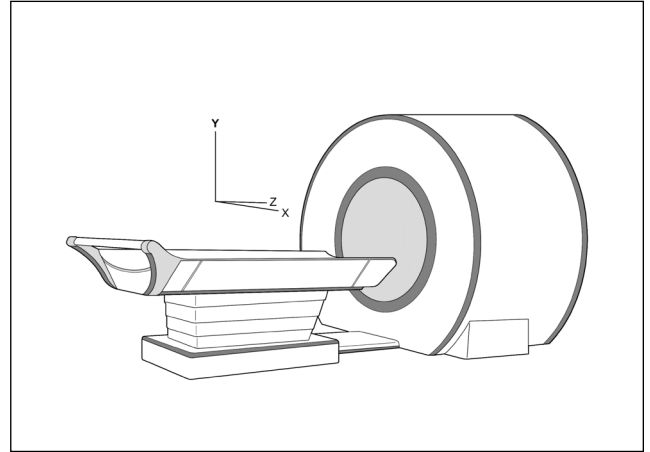


Fig. 77



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