

CR2 Installation Manual



1. **Hardware Installation:**

- 1.1. Open the crate's top and one of the log sides.
- 1.2. Carefully unload the table with consideration of the wide pedal at the bottom, so you won't damage the microswitch inside the table.
- 1.3. Carefully unwrap the table and the column.
- 1.4. Use the column to mark the anchors places on the floor to fix the column. (Look at the blue print of the room provided to the customer or ask the customer where to place the system if the blue print is not provided).
- 1.5. use 3/8" cement bit (or the appropriate drill bit that corresponds to the type of floor) to make 4 holes that align with the column base holes.

To the back
of the table

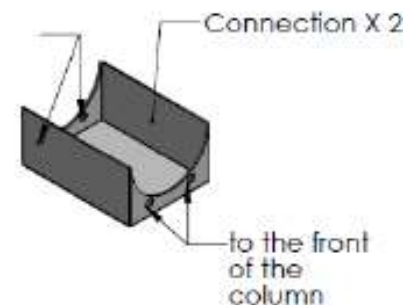


Figure 1: Table connection to the column

- 1.6. place the column first and then place the anchors through the column base 4 mounting holes
- 1.7. tie on the appropriate washer and nuts to the anchors, then use a hammer to hammer in the anchors in the holes in the floor.
- 1.8. Take off the table front cover by removing the four ¼"-20 Allen screws
- 1.9. Attach the table to the column by attaching the two connections on the column to the back of the table through the four hex bolts (3/8-16, that is provided)
- 1.10. Place the table front cover back on.

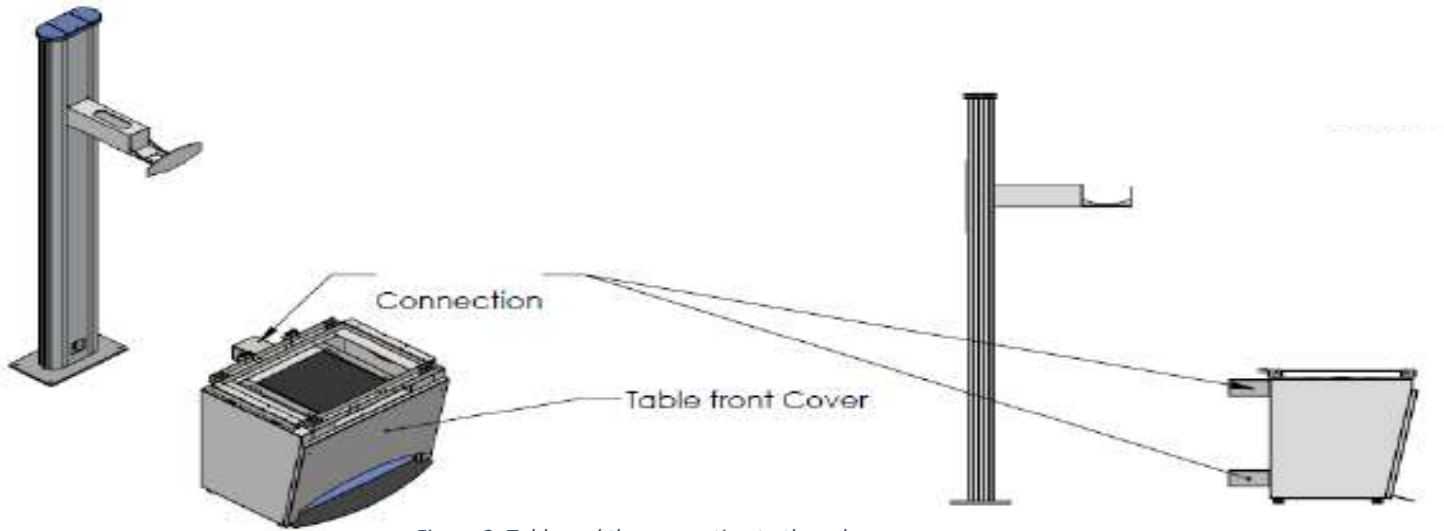


Figure 2: Table and the connection to the column.

- 1.11. Carefully unwrap the table top and never place it on its edges to avoid
- 1.12. Take off on table stopper by unscrewing the four ¼"-20 Philips screws
- 1.13. Loosen the four-ball bearing (refer to figure 3)

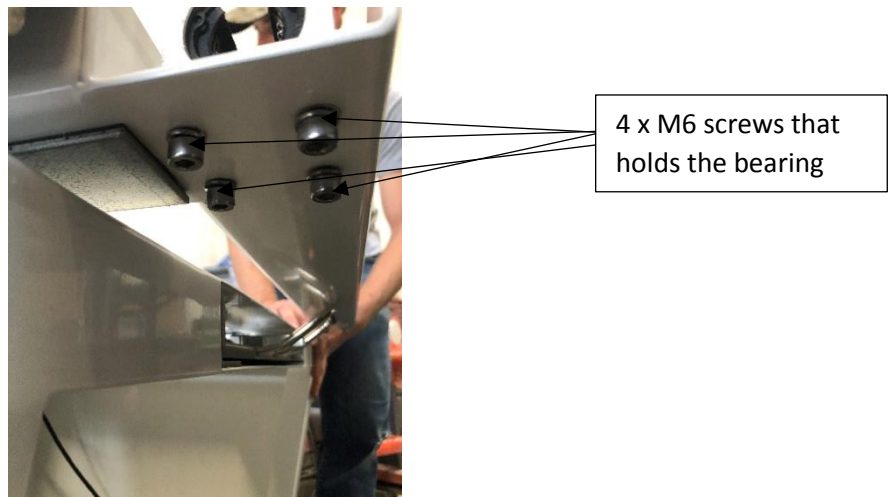


Figure 3: 4 screws from the bottom that holds the ball bearing. It needs to be loosened before inserting the tabletop.

- 1.14. Slide in the table top by fitting in the two ball bearing shafts through its corresponding table ball bearing. (the stopper should be on the back side of the table)
- 1.15. Tighten up the table ball bearings, then put back the table stopped with the four Philips Screw.

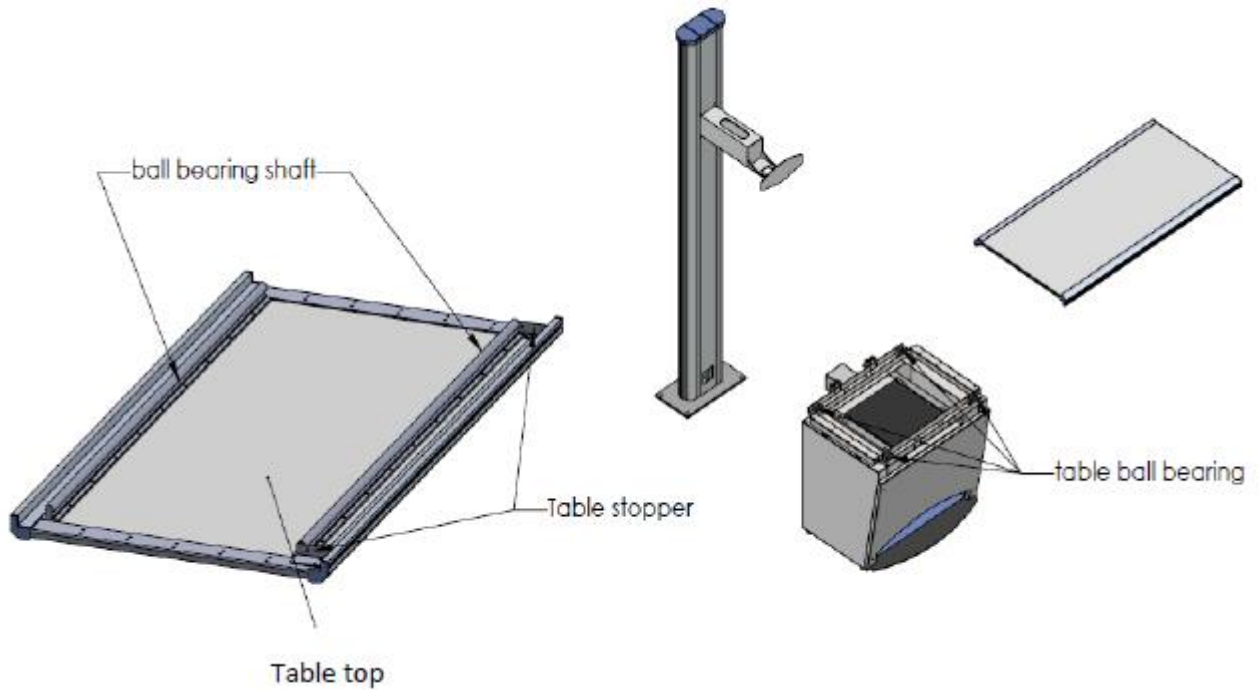


Figure 4: Sliding in the tabletop.

1.16. Add the plastic arm cap as shown in figure 5 below.

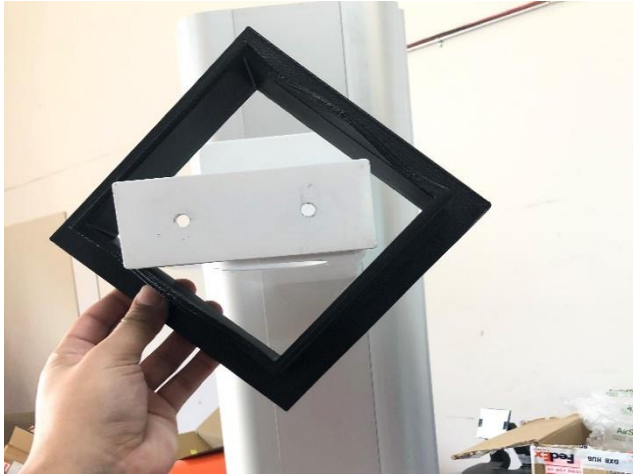


Figure 5: inserting the Arm cap on the arm.

1.17. Add the plastic column top cap as it shows in figure 6 below



Figure 6: placing the top column cap

- 1.18. Place the tube on top of the arm as shown in the picture.
- 1.19. Place the collimator ring at the bottom of the arm below the tube through the arm
- 1.20. Place the collimator below the arm as shown in the picture, then screw the collimator inside screws to fix the collimator to the collimator ring.
 - 1.20.1. (refer to the collimator Manual)

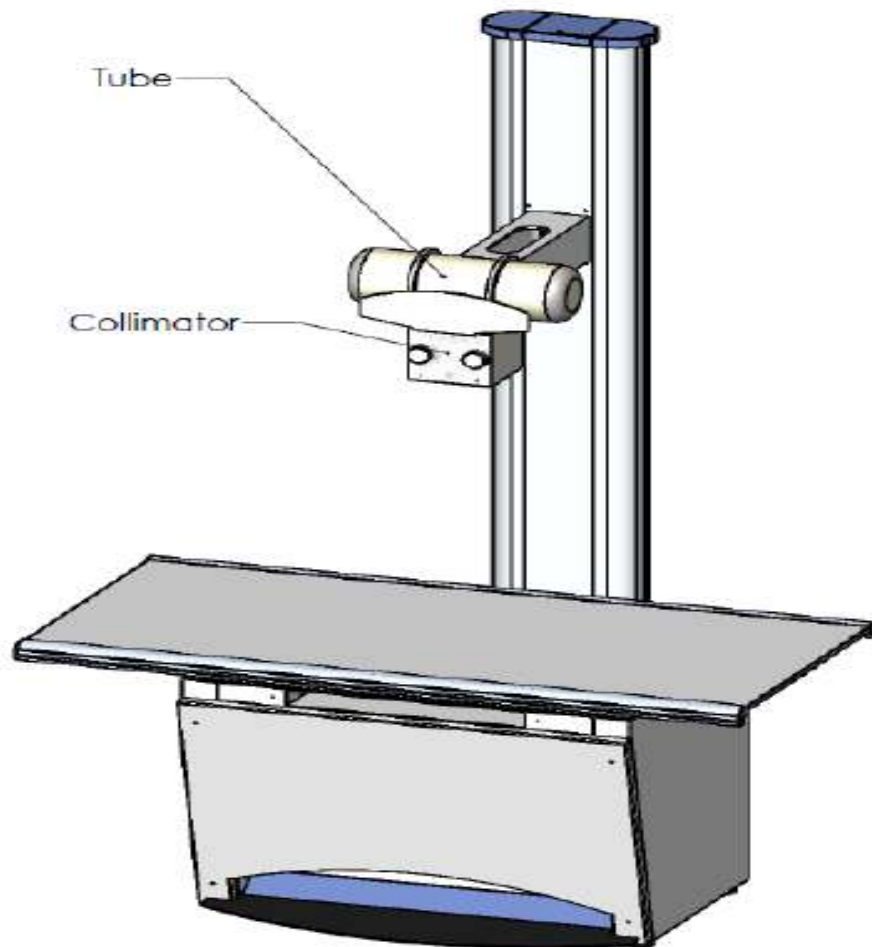


Figure 7: shows the table with the tube and the collimator

- 1.21. Refer to the following pages for proper cable management and connections for the tube, collimator and generator

2. Collimator, Tube, and generator installation:

2.1. Collimator: (refer to the collimator manual)

- 2.1.1. Align the tube using the screws found with the metal plates inside of the blue binder. (note: there are two different types of screws used according to the type of X-ray tube).
- 2.1.2. There are two main tools used to install collimator;
 - 2.1.2.1. Allenkey for screws
 - 2.1.2.2. Allenkey for the mounting plate
- 2.1.3. remove the collimator mounting plate
- 2.1.4. connect the collimator mounting plate to the tube using the screws **previously used to align and keep tube in place**
- 2.1.5. place collimator on to mounting plate and tighten all four screws in order to secure collimator on the tube arm
- 2.1.6. connect collimator to CPI generator cable then other collimator cable located at the back of the table to foot pedal cable (there is only one way to connect the cables)



Figure 8: showing the 4 mounting holes at the bottom of the arm to mount the tube and the collimator ring

2.2. Tube: (refer to the generator and the tube manual)

- 2.2.1. Place tube on holder so that it is stable
- 2.2.2. Unscrew the tap (be gentle with cap screws as they are easy to strip)
- 2.2.3. Grey tube wire is connected to the tube with the wire side labeled 1,2,3, etc.
- 2.2.4. Connect the grey wire as follow inside the tube to its relative number: (refer to figure 9)
 - 2.2.4.1. Black wire is 1

- 2.2.4.2. Red wire is 2
- 2.2.4.3. Yellow wire is 3
- 2.2.4.4. White wire is 5
- 2.2.4.5. Blue wire is 6
- 2.2.5. Get the wire through the built in zip tie in order to adjust the fix the wgrey wire in place inside the tube



Figure 9: internal wiring of the tube.

- 2.2.6. Screw the cap back on
- 2.2.7. Feed the loose end of the grey cable through the arm and through to the bottom access point
- 2.3. **Generator connections:**
 - 2.3.1. Connect the high-tension cables to the tubes.
 - 2.3.1.1. Connect one cable to the positive end on the tube
 - 2.3.1.2. Connect the second cable to the negative end on the tube.
 - 2.3.2. Remove the cover for the electrical CPI generator
 - 2.3.3. Connect the high-tension cable it their designate place,
 - 2.3.3.1. Apply silicon on the top of the wire head and distribute it all over the head of the cable, you end up with a thin layer of silicon that cover the head of high-tension cable.

- 2.3.3.2. Connect the positive end of the cable to the positive end inside the generator and so for the negative



Figure 10: connecting the high tension cables to the generator

- 2.3.4. Close the generator cover
2.3.5. Organize the cables through the cable tray
2.3.6. Connect the power cable to the wall disconnect.

Note: most of the other wiring are connected for you as a courtesy.

3. DR Panel , workstation installation:

3.1. DR Panel: (refer to figure 11)

- 3.1.1. Remove the DR panel from the packing (take care don't drop it or hit).
 - 3.1.1.1. Connect the DR Panel to the power box to the 25 Pin connector's cable (female connector).
 - 3.1.1.2. Connect the male side of the cable to the power box.
 - 3.1.1.3. Position the DR Panel inside the table panel bucky.
 - 3.1.1.4. Connect the cat6 cable from power box to the Ethernet port on the workstation.
- 3.1.2. to be able to use it, you need to power on both the power box and the workstation, then open Voyance software on the workstation (Kindly consult the user manual of Voyance for more details).



Figure 11: view of the DR power box connection