

CHAPTER 2

SETUP

This chapter provides instructions for assembling and setting up the Master Data Table. Perform the steps to set up the Master Data Table in the following order:

- Placement (page 9)
- Unboxing Master Data Table (page 10)
- Assembling Master Data Table (page 13)
 - Setting up the table legs (page 13)
 - Height adjustment and leveling (page 15)
 - Installing back and side panels (page 17)
- Connecting sensors (page 21)
- Connecting power (page 24)
- Turning the Master Data Table on (page 24)

Placement



The Master Data Table is designed to be operated in a warehouse environment; however, for proper operation the following conditions should be met if possible.

- Do not subject the Master Data Table to extremes in temperature or humidity. Locate the Master Data Table as far from open freight doors as possible. Heaters or air conditioners should not blow directly on the Master Data Table.
- Avoid placing the Master Data Table in direct sunlight, as it may affect measurement readings.
- Protect the Master Data Table from static electricity, especially the touchscreen.
- Place the Master Data Table on a flat, sturdy surface as free from vibration as possible.

- Maintain a minimum of one-inch clearance at the back and sides of the Master Data Table. Do not rest objects against or set objects on the Master Data Table when not in use.
- If a computer is used, place it as close to the Master Data Table as possible. The operator needs to use the keyboard or mouse on the computer while cubing objects using the Master Data Table.
- Orient the Master Data Table so the track sensors can be accessed easily.

Unboxing Master Data Table

The Master Data Table is shipped in stacked pieces and will take some assembly. The unit will be boxed and secured by box straps. Within the box, the piece of the unit is wrapped and secured with cushioning. This prevents damage during transit.



Figure 2
Boxed unit

1. Extract each piece from the box and remove the wrapping.



Figure 3
Unboxing

2. The table will be at the bottom along with the leg railings and fasteners.



Figure 4
Table and fasteners

3. Due to the size of the back panel and table, two people are needed to lift these out safely.



Figure 5
Lifting table out

Assembling the Master Data Table



Setting up the table legs

1. Remove packing materials and position the table in desired location.



Figure 6
Table base

2. Begin by folding down one set of legs. Thread the 3/8" (16) bolts with washers through the two pre-tapped holes on the upper side of the legs. The top bolt will require a spacer.

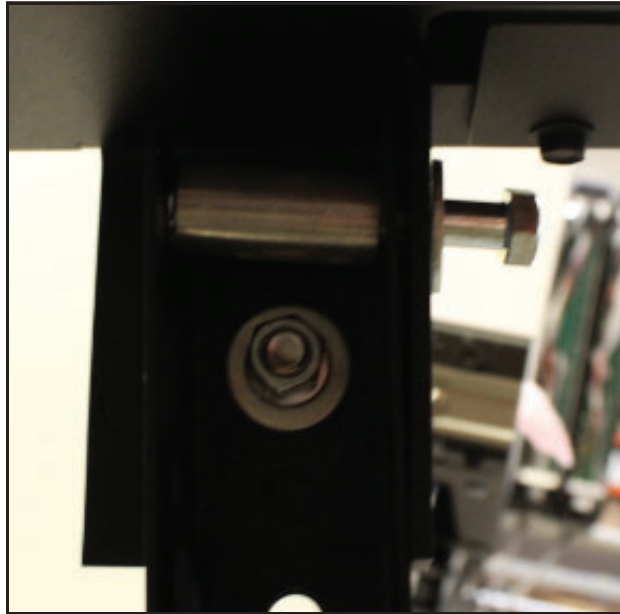


Figure 7
Legs - bolt and spacer

3. Secure the bolts on the other side with the flange nuts using a 9/16" socket.

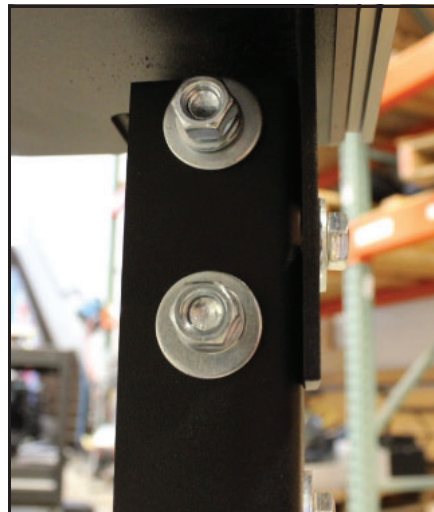


Figure 8
Legs - nuts and washers

4. Once the legs are secure, fold down the other side and secure the legs with the bolts and flange nuts the same as the first.

5. Attach the lower railings to the legs using the 1/4" (20) bolts. Secure in the back with the flange nuts, using a 3/8" socket.

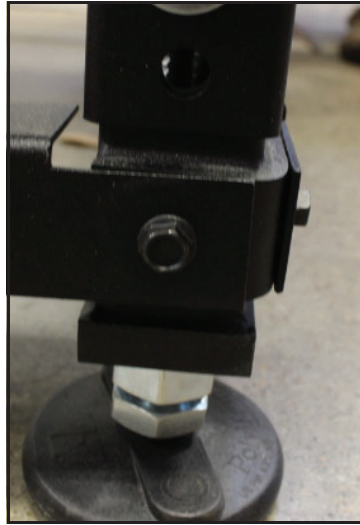


Figure 9
Leg rails

Height adjustment and leveling

1. Adjust the height of the legs, by removing the two adjuster bolts at the side of the legs.



Figure 10
Adjusting table height

2. Extend the legs to the desired height and secure it with the adjuster bolts. Ensure all legs are adjusted to the same height.
3. If the table requires further leveling, the platforms at the bottom of each leg may be adjusted to level out the table. Use a wrench to turn the nut on the table leg to adjust the height in small increments.

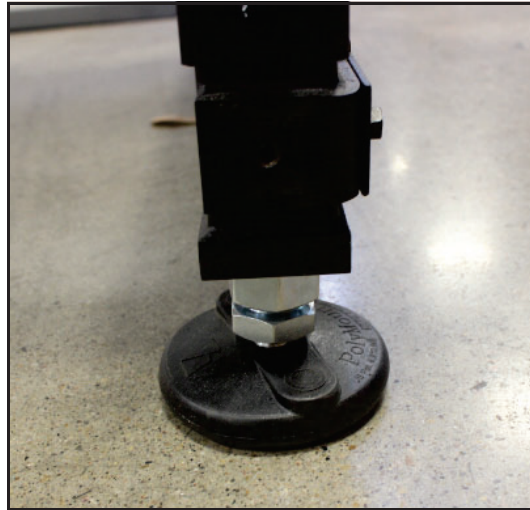


Figure 11
Leveling feet

NOTE >

The Master Data Table does not need precise leveling for proper function. As long as the floor is relatively level, there should be no need to adjust the leveling.

Back and side panels

1. Loosen the bolts for the side panel. Position the side panel over the bolts aligning with the pre-tapped, slotted holes. Hand tighten bolts.

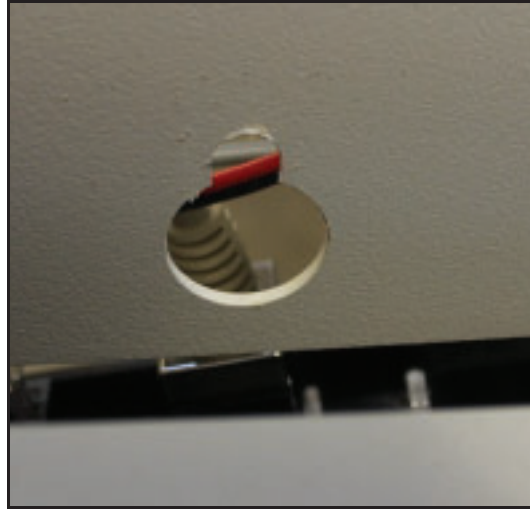


Figure 12
Slotted hole

2. Screw in additional bolts and tighten with 3/8" socket.



Figure 13
Side panel bolts

3. Connect cable from table into side panel input.



Figure 14
Table connector

4. Loosen back panel bolts. Position the back panel over the bolts aligning with the pre-tapped, slotted holes. Hand tighten bolts.



Figure 15
Slotted holes

5. Screw in additional bolts and tighten with 3/8" socket.

6. Connect side panel with back panel with 1/4" (20) screws.



Figure 16
Connecting panels

7. Ensure all bolts and screws are sufficiently tight. Do not over tighten as this may strip the threading.

Bottom rack (optional)

In some cases, a bottom rack is provided to support a PC unit or other conveniences. Complete the following steps to attach this rack to your unit:

1. Place the rack along the bottom railing where it will be utilized.
Typically this would be the end near home position (the end with the

sensors). A space is cut into the rack to make room for the table legs. The rack should fit snugly into place between the two table legs.

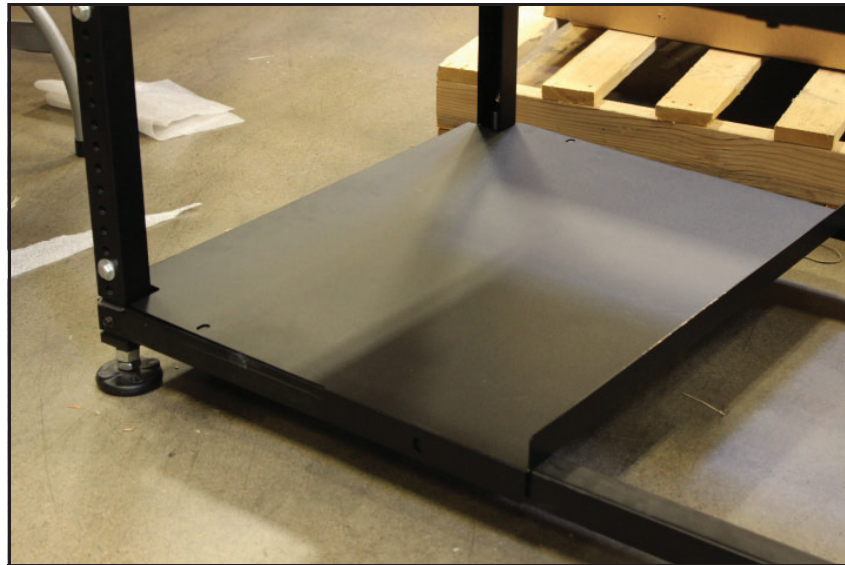


Figure 17
Bottom rack

2. With the rack in place, secure it to the railings along each side with the accompanying screws.



Figure 18
Securing rack

3. Once secured, the rack is prepared for the placement of a PC unit or any other accessory you wish to use with the MDT.

Connecting sensors

The Master Data Table has three laser sensors that are use to measure out product on the table. Each sensor is attached to a rails that runs along the table and side panel.

1. After connecting the back and side panels to the table, slide the sensors onto the rails along the table and side panels. There will be one sensor along the table and two sensors on the side panel: one at the top and one along the front.



Figure 19
Laser sensors

2. With the senors in place connect the network cables form the sensor to its respective input along bottom of the side panel. The following will describe where each input is located.

side panel sensor (top): Input is located on near the upper-left portion of the panel side panel.

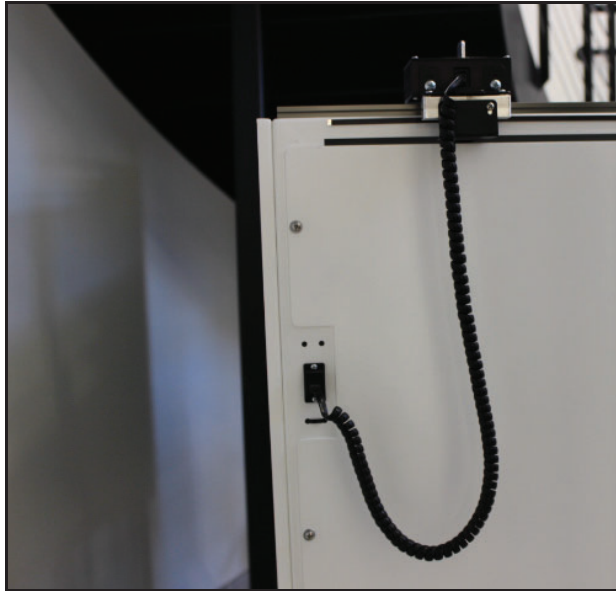


Figure 20
Side panel sensor (top)

side panel sensor (front): Input is located at the bottom front of the side panel.

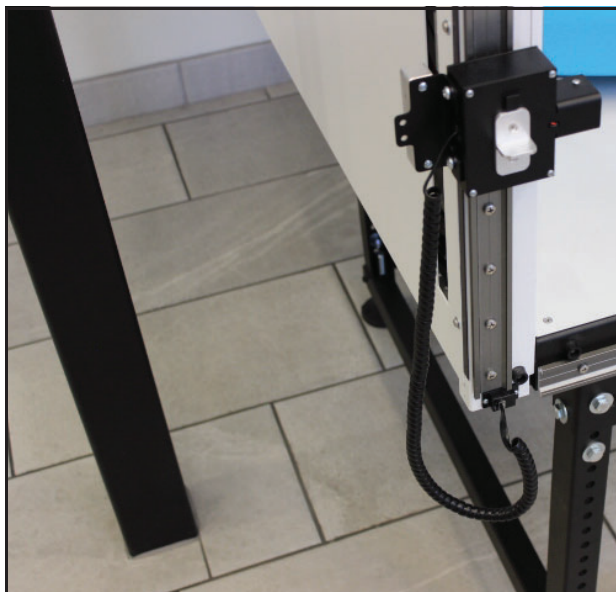


Figure 21
Side panel sensor (front)

table sensor: Input is along the bottom of the table near home position (front-left position).

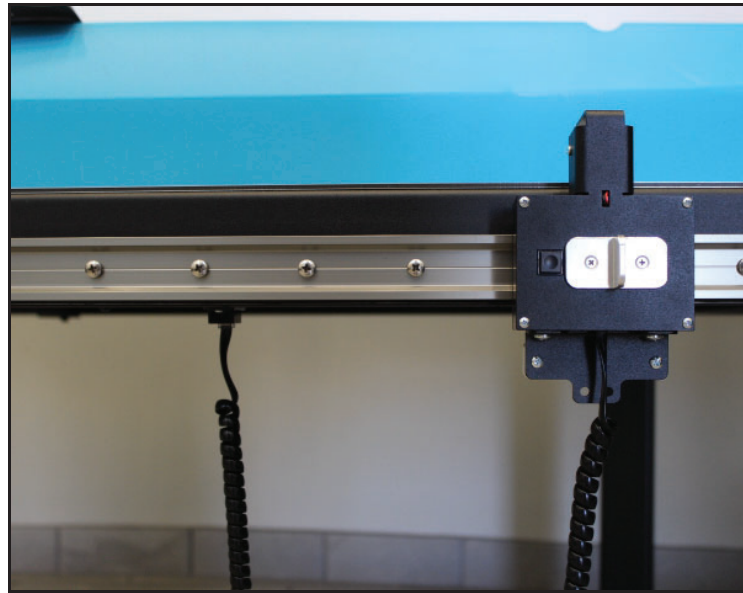


Figure 22
Table sensor

Connecting power

1. Connect the power at the bottom of the side panel along with any network cables.

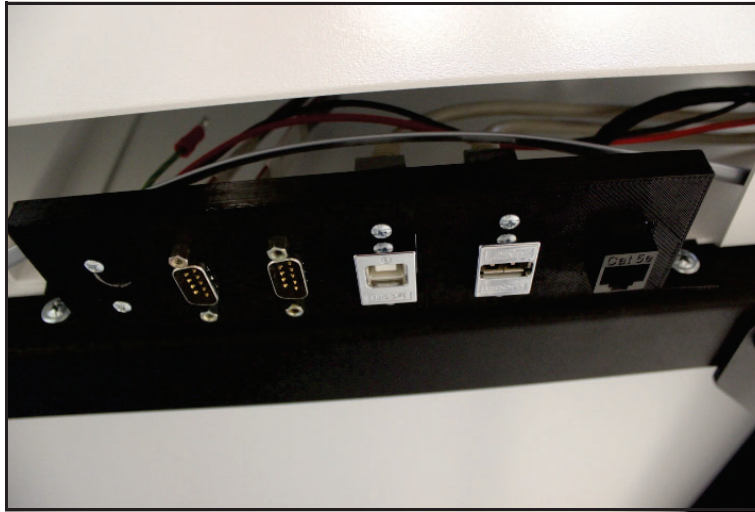


Figure 23
Connecting power

2. Plug the power cord into an electric outlet. Ensure the cord is in a safe location where it will not be a tripping hazard.

NOTE

The Master Data Table should be powered on before running the Qbit program to cube and weigh packages.

Turning on the Master Data Table

Specific procedures must be followed each time you turn on the Master Data Table, as follows:

1. Make sure there are no packages or other objects on the Master Data Table platform.
2. Make sure the sensors are in the home positions.

- **panel sensor (side)** - home position is at the bottom of the side panel.

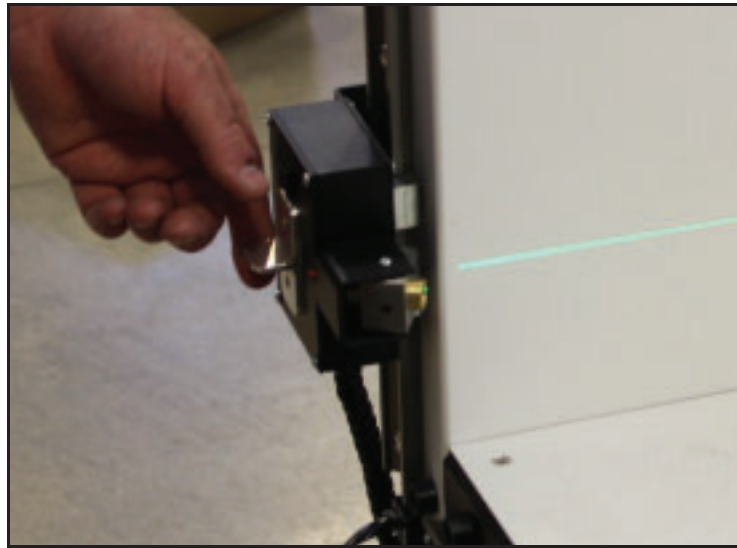


Figure 24
Panel sensor (side)

- **panel sensor (top)** - home position is on the far side nearest the back panel.

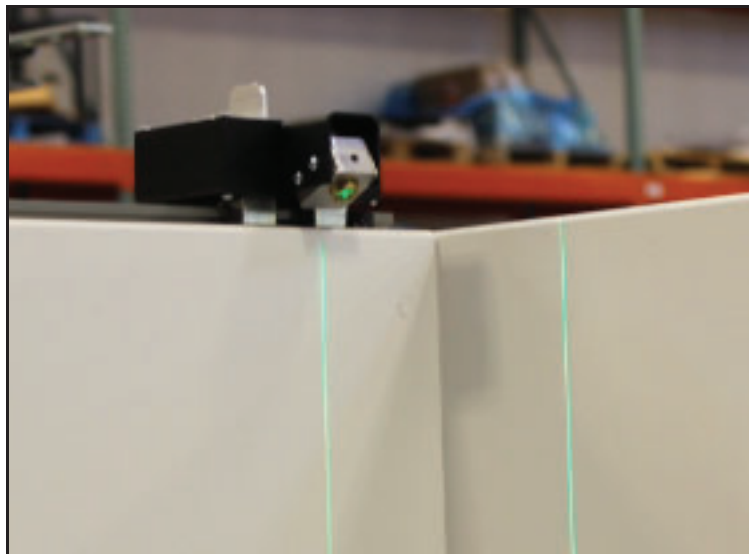


Figure 25
Panel sensor (top)

- **table sensor** - home position is on the side nearest the side panel.

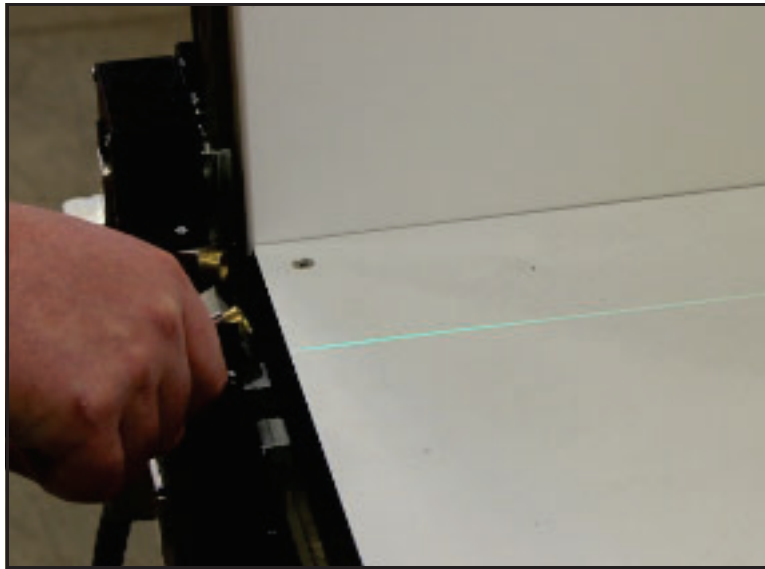


Figure 26
Table sensor

3. The table is ready for operation.

Setup checklist



Before using the Master Data Table for the first time, verify the following:

1. Has the Master Data Table been placed in the proper operating environment? The Master Data Table should not be pushed up against a wall and no object, cable, etc., should be resting on it or against it.
2. Has all shipping material been removed?
3. Has the Master Data Table been fully assembled and sensors connected?
4. Has the AC power cord been connected correctly?
5. Does the Master Data Table require recalibration? The Master Data Table *may* require recalibration due to handling during shipping. Refer to [page 42](#) for information on calibrating the Master Data Table.