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3D SYSTEMS University

CubeX Printer

"Lesson – Replacing a Cartridge Bay"

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Objectives

After completing this lesson you will:

- ❑ Be able to replace a damaged or non-working CubeX cartridge bay
- ❑ Know how to check that that new cartridge bay is working.

Introduction

The Tools needed to complete the cartridge bay replacement procedure are:
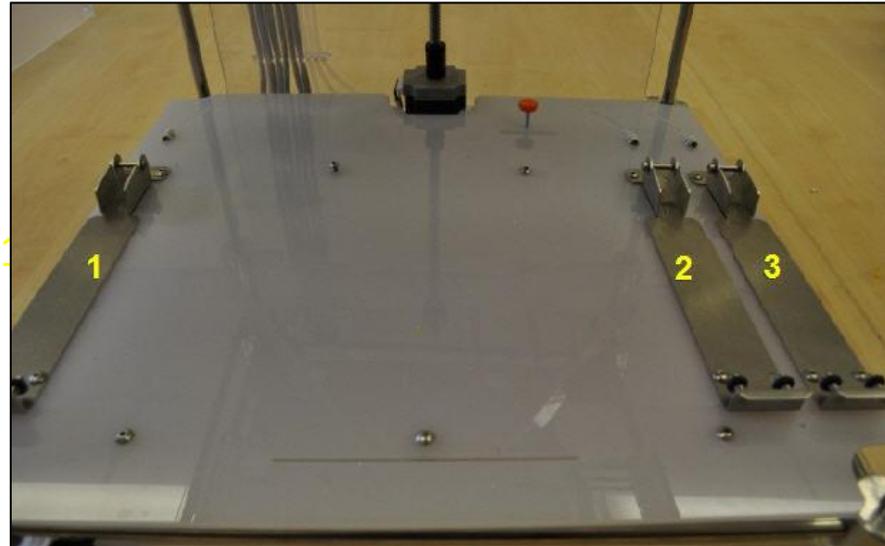
- Replacement Cartridge Bay

- 3 mm Hex Driver

- 5 mm Wrench

Bay Orientation

Before beginning this process please ensure that the print pad is raised to the top of the machine and all cartridges and the jet wipe have been removed from the machine. Unplug the CubeX from mains power.
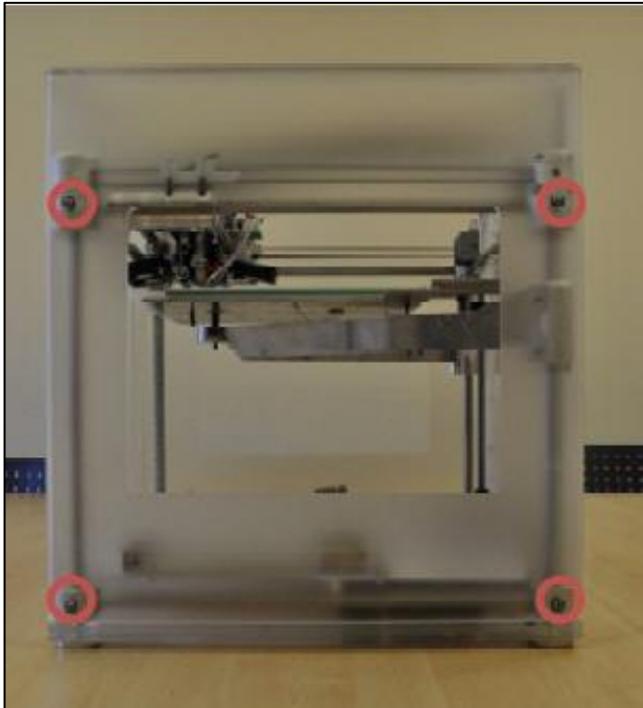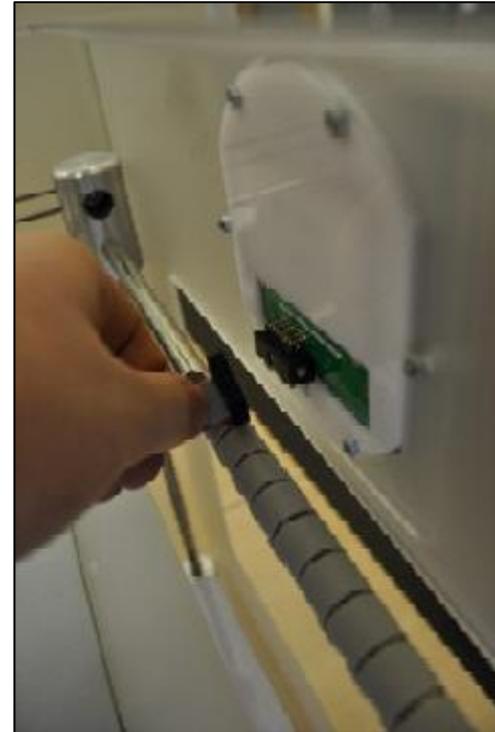
1: Bay 1
2: Bay 2
3: Bay 3

You need to ensure you have requested the correct replacement bay. Each bay is programmed to know which print jet it will be used for and how many print jets the CubeX has before it is sent to you.

Removing the Case and Floor Panel

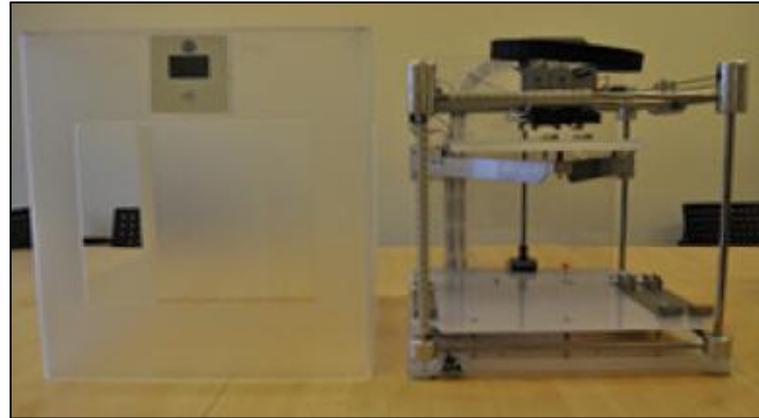1. Use the 3mm hex driver to remove the 8 case bolts (4 on either side of the machine).
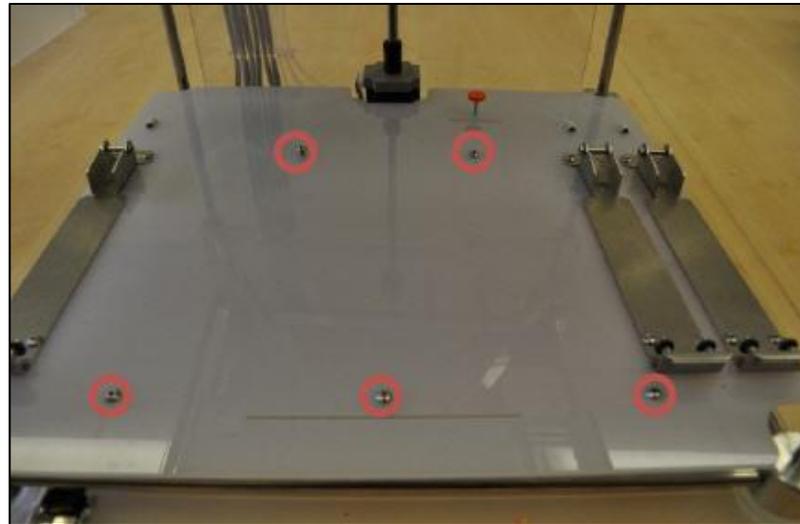
2. Unplug the CubeX screen.

Removing the Case and Floor Panel

3. Lift the case up off the CubeX.

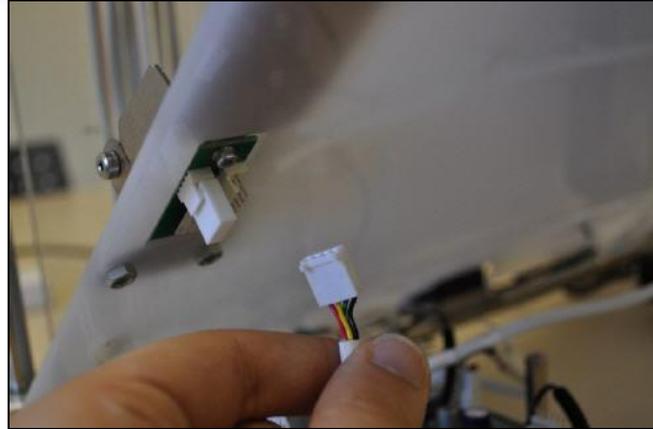4. Use the 3mm hex driver to remove the 5 bolts holding the floor panel to the machine.

5. Lift the front of the floor panel and cable tie it to the bed arms. This will allow access to the Cartridge bay fastenings.

Replacing the Damaged Cartridge Bay

6. Unplug the wires from the cartridge bay, noting their orientation.
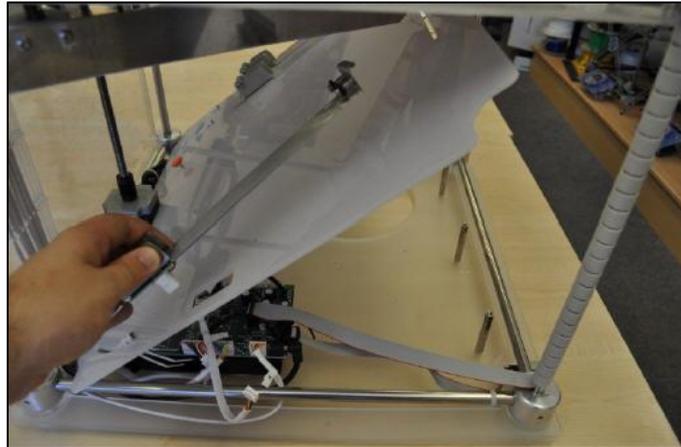

7. Use the 3mm hex driver and 5 mm wrench to remove the fastenings holding the cartridge bay to the floor panel.
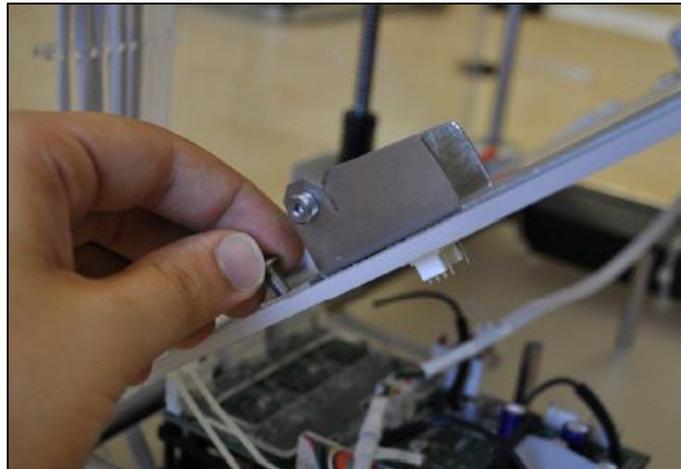
Replacing the Damaged Cartridge Bay

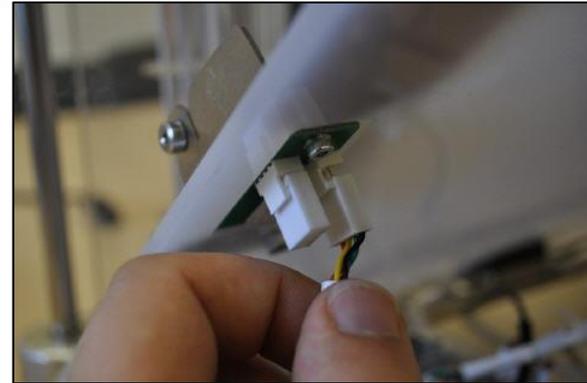8. Remove the cartridge bay from the machine.

9. Place the new cartridge bay on the machine and fasten it to the floor panel.
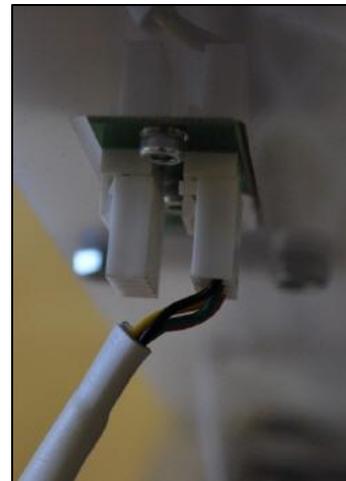
Replacing the Damaged Cartridge Bay

10. Plug the wires back into the cartridge bay.

11. If you have replaced bay 1 or bay 3 you will need to make sure a cover has been put over the pins that are not in use. Failing to do so can result in damage to your CubeX.

Please note, if you are changing cartridge bay 1, you will need to contact Cubify Support to re-activate the machine

Bay 1   Bay 3
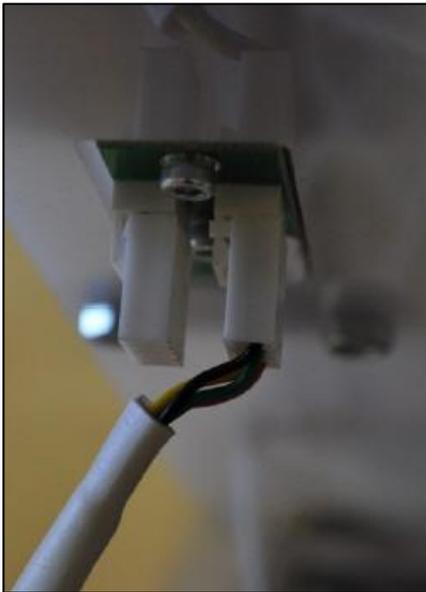
Cartridge Bay Wire Orientations

It is important that the wires are in the correct orientation, if they are not it can cause damage to your CubeX. All orientations that follow will be described when looking at the CubeX from the front.

The wire for bay 1 leaves the main controller board from the connector labeled module 1

Cartridge Bay Wire Orientations

The wire plugs into the right hand side of Bay 1. The left hand side of Bay 1 needs to be covered with an empty socket to protect the pins that are not being used.
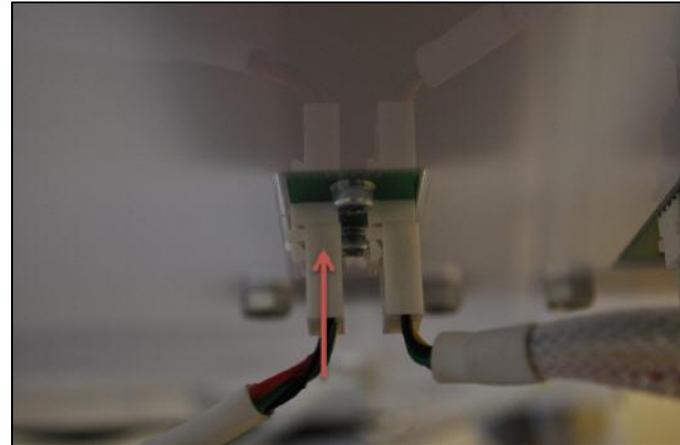
The wire for Bay 2 leaves the main controller board from the connector labeled module 2
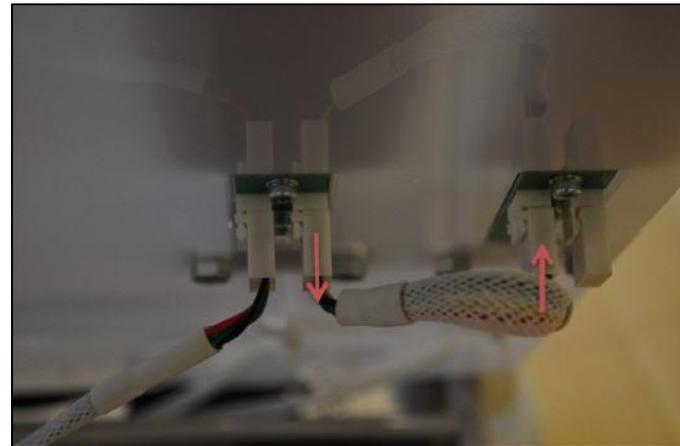
Cartridge Bay Wire Orientations

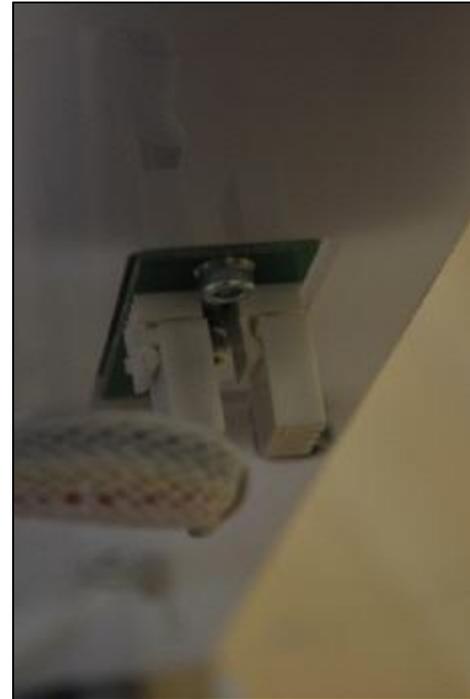This wire plugs into the left hand side of Bay 2.

The wire for Bay 3 leaves Bay 2 from the right hand side and plugs into the left hand side of Bay 3
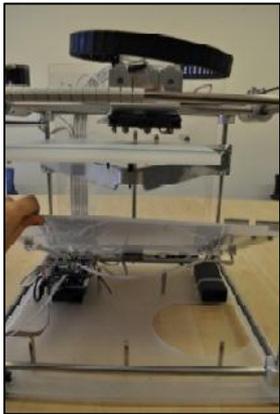
Cartridge Bay Wire Orientations

The right hand side of bay 3 needs to be covered with an empty socket to protect the pins that are not being used.
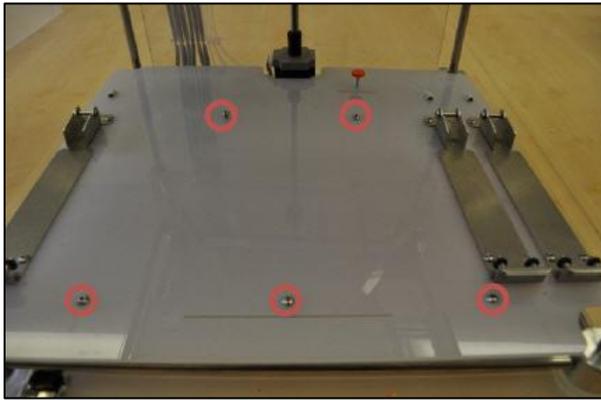
Reassemble the CubeX

Follow the disassembly instructions in reverse to reassemble the CubeX:

1. Cut the cable tie holding the floor panel in place and gently lower it down.

2. Use the 3mm hex driver to reattach the 5 bolts that hold the floor panel.

3. Slide the case onto the CubeX and plug in the CubeX screen.

4. Use the 3mm hex driver reattach the 8 case bolts.
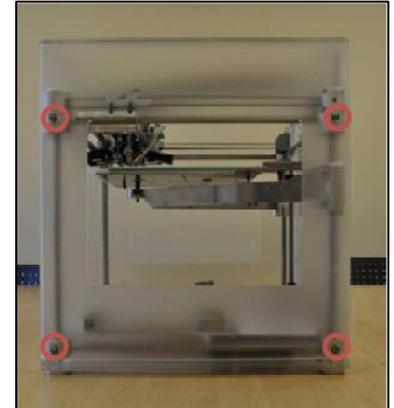
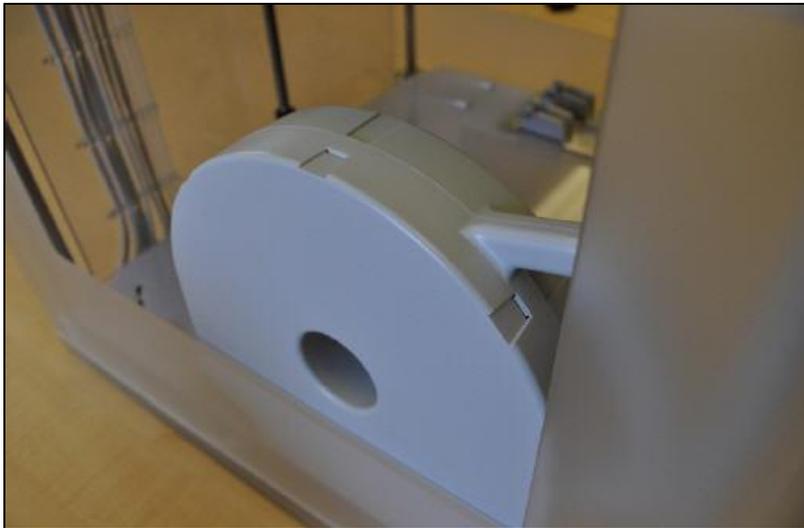5. You may now power up your CubeX.
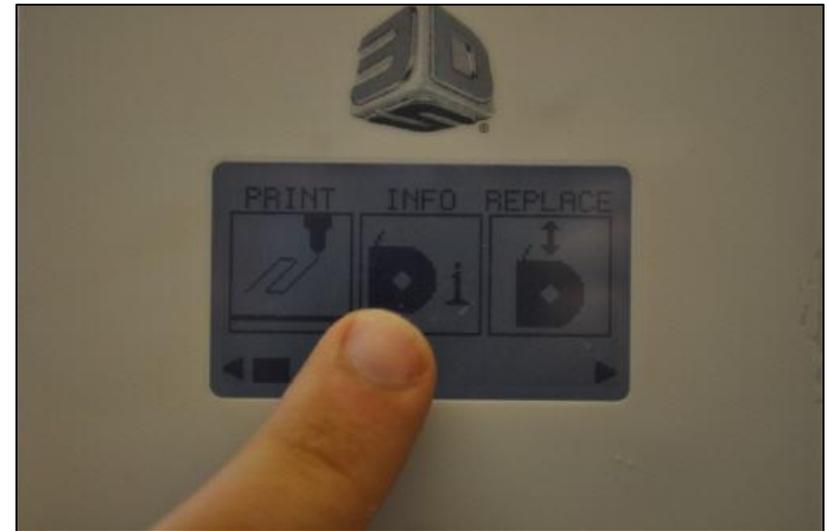

1.   2.   3,4.   5.

Checking the New Cartridge Bay

If you have replaced cartridge bay 1 you will need to contact Cubify Support to re-activate the machine before proceeding.

1. Place a cartridge in the new bay

2. Select info from the menu screen

Checking the New Cartridge Bay

The info screen will tell you the cartridge information showing that the bay is working