

## Replacing the CamBot XY Brick PC (GEN3), and Target Assembly

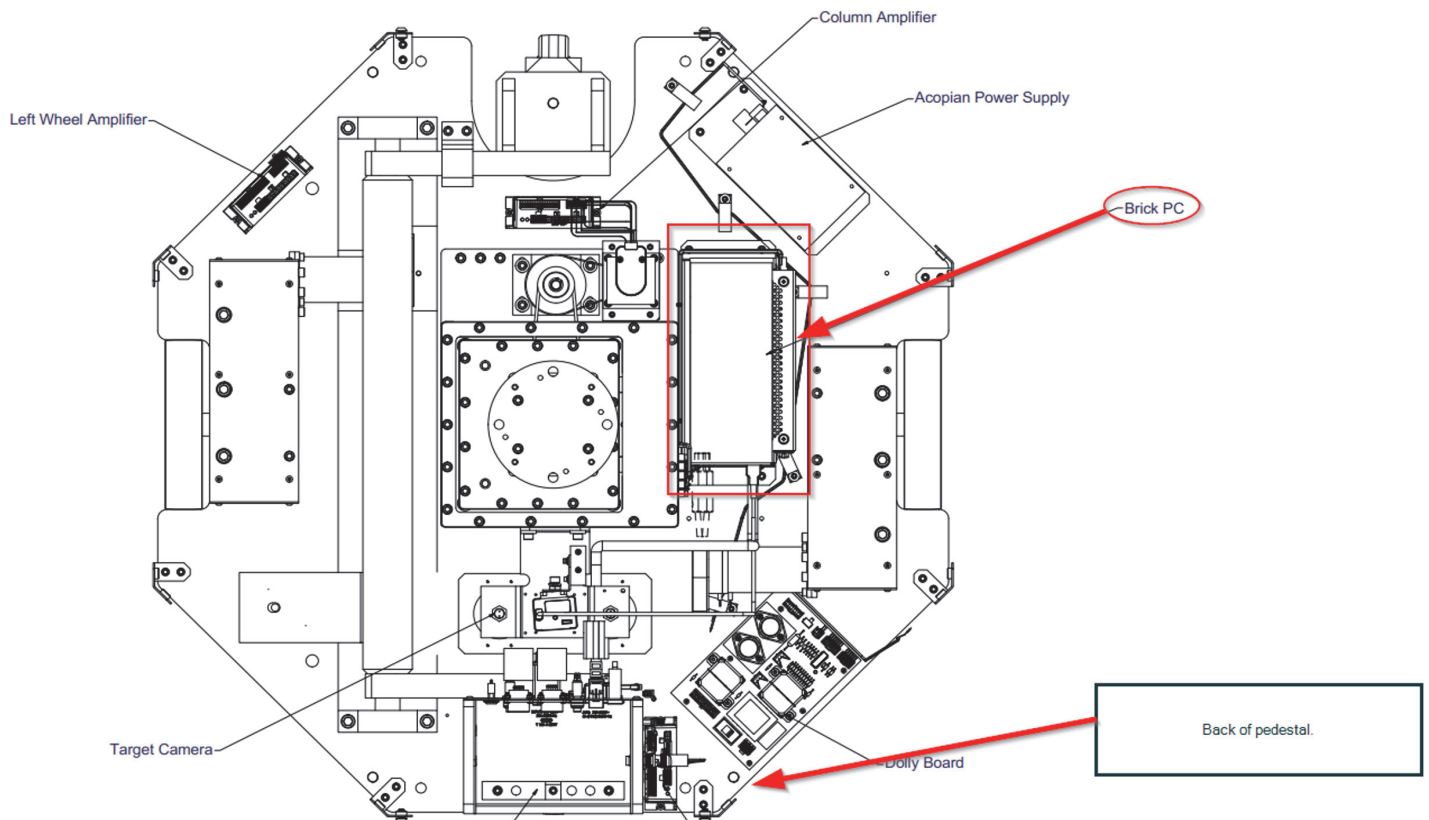
This document describes how to replace the computer (Brick PC) for a CamBot XY pedestal, and the target assembly.

### Replacing the GEN3 Computer Brick PC (5100AR-715-01)

Please read the following instructions in their entirety before starting. Some steps may be done out of sequence.

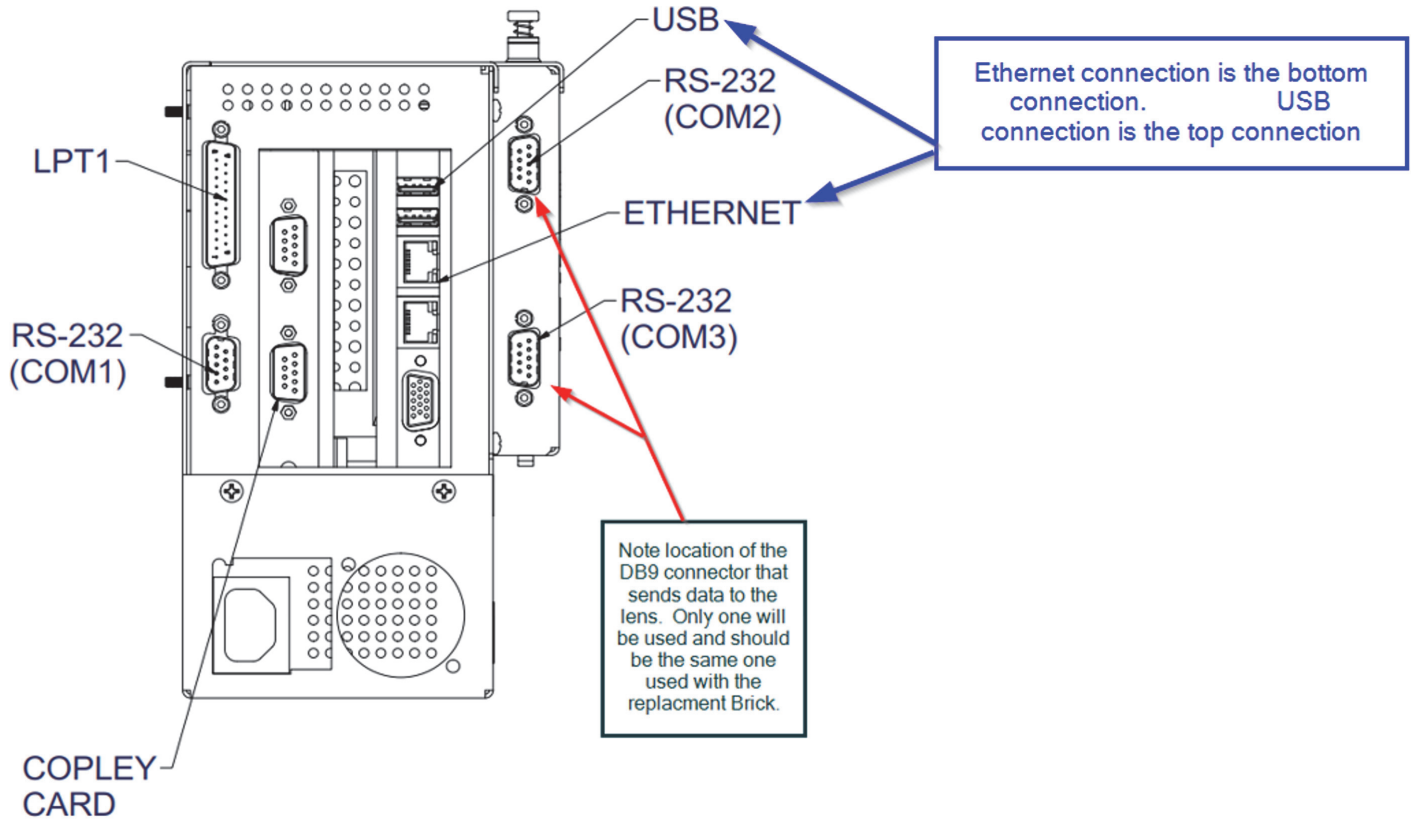
#### To replace the Brick PC:

1. To locate the Brick PC, you will need to lift the Shroud to access the pedestals electronic components (**Figure 1**).



**Figure 1 - Locating the Brick PC**

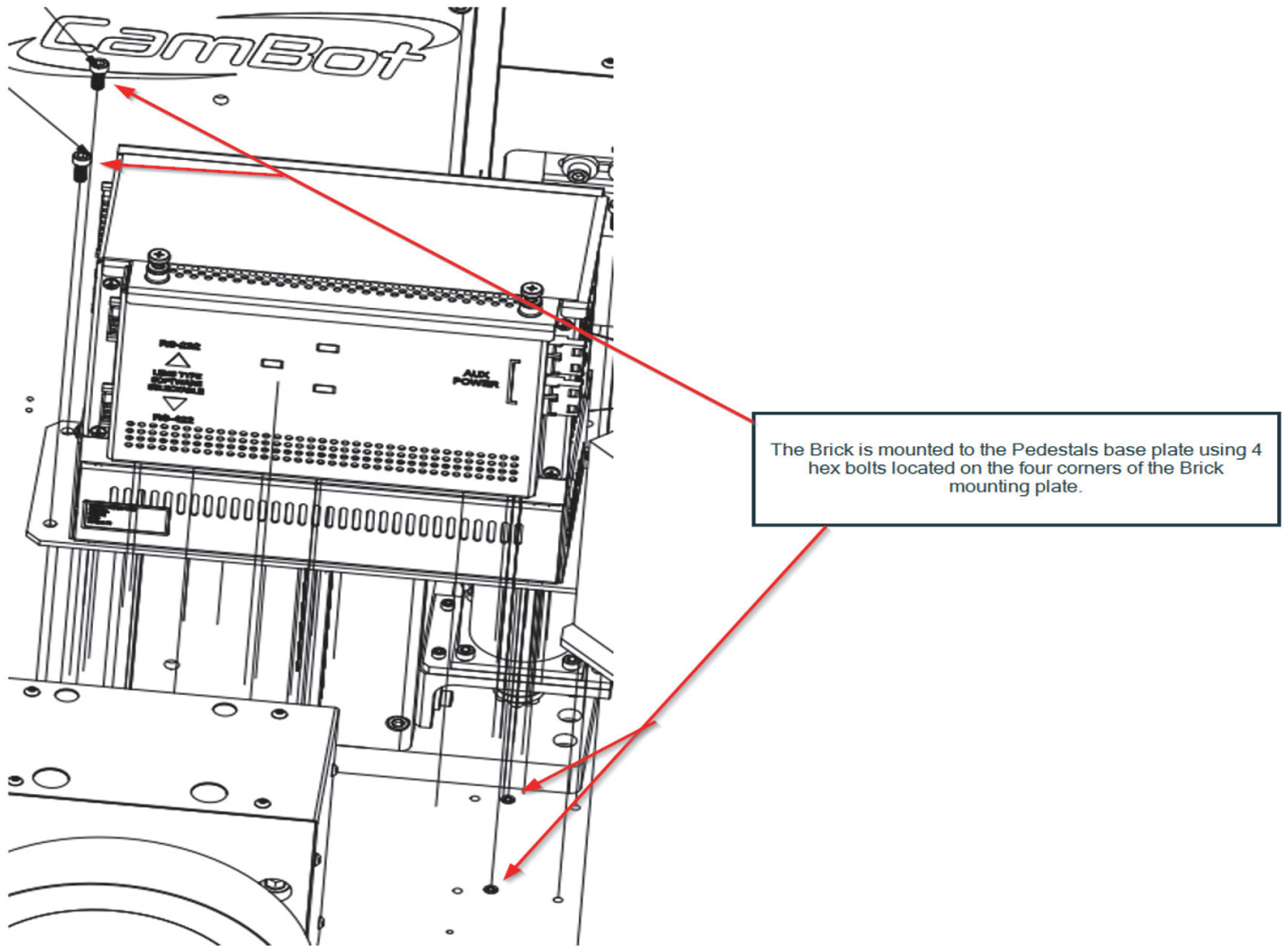
- Before the Brick is removed note the location of the connections going to the Brick (**Figure 2**).



**Figure 2 - Cable Connections**

- After removing the 5 electronic connections shown in the above diagram you must also remove, input AC (located on the front) and the DC output power (located on the back of the Brick).

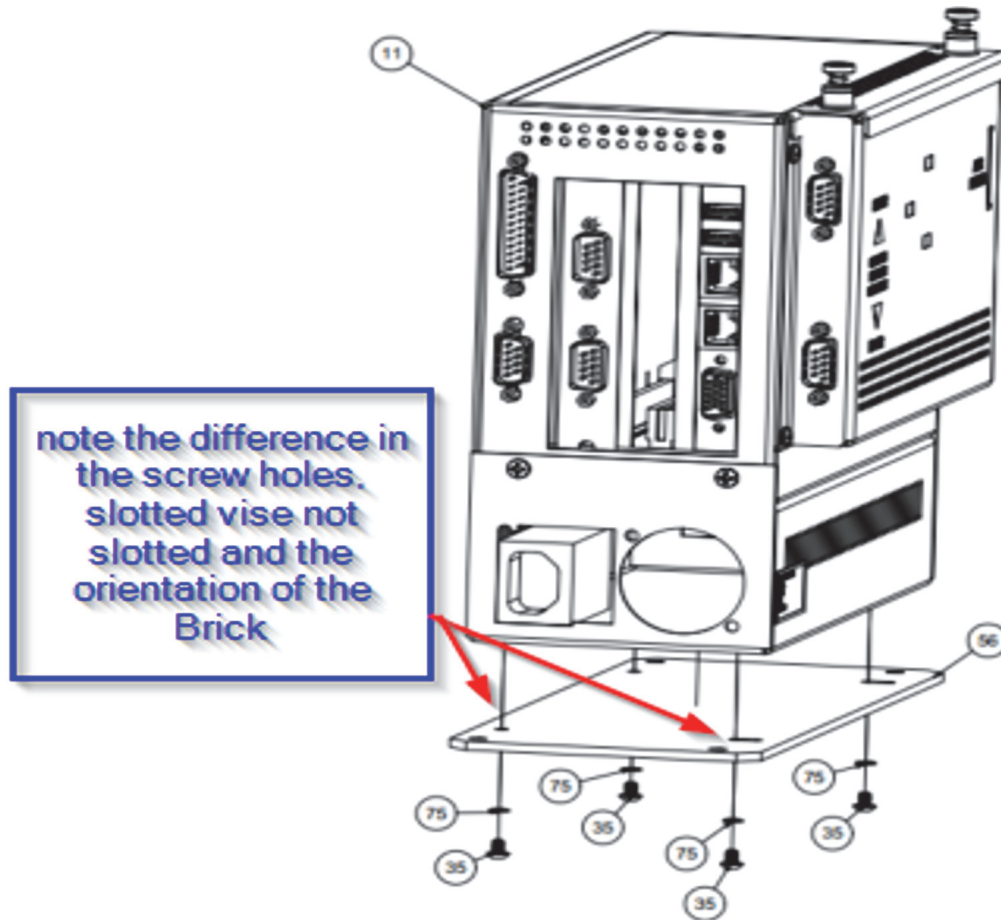
4. Locate the four Mounting Bolts on the corners of the Bricks mounting plate (**Figure 3**). These bolts are holding the Brick to the pedestals base plate.



**Figure 3 - Mounting Bolts**

5. Remove the four Mounting Bolts and carefully remove the Brick.

6. Once the faulted Brick is removed the mounting plate will have to be swapped from the failed Brick to the replacement Brick. Close inspection of the mounting plate will show there is a difference in the bolt pattern so there is a right way and a wrong way (**Figure 4**).



**Figure 4 - Mounting Plate, Showing Round Holes and Slotted Holes**

7. With the shroud secured, power up the pedestal and observe the normal boot sequence.
8. Connect the pedestal to Smartshell client and test Lens control.
9. Test that the local controller can connect. This verifies the connections are correct.
10. Secure the shroud and return the pedestal to service.

## Removing and Replacing the Targeting Assembly

The assembly holding the USB camera is identical to the assembly holding the Firewire camera. In the factory the camera's lenses are preset to a focal length. This focal length is determined based on the distance from the camera to the target. Because of this when replacing the targeting assembly, it must be placed in the same location as the one that was removed both in height and pitch. See **Figure 5**.

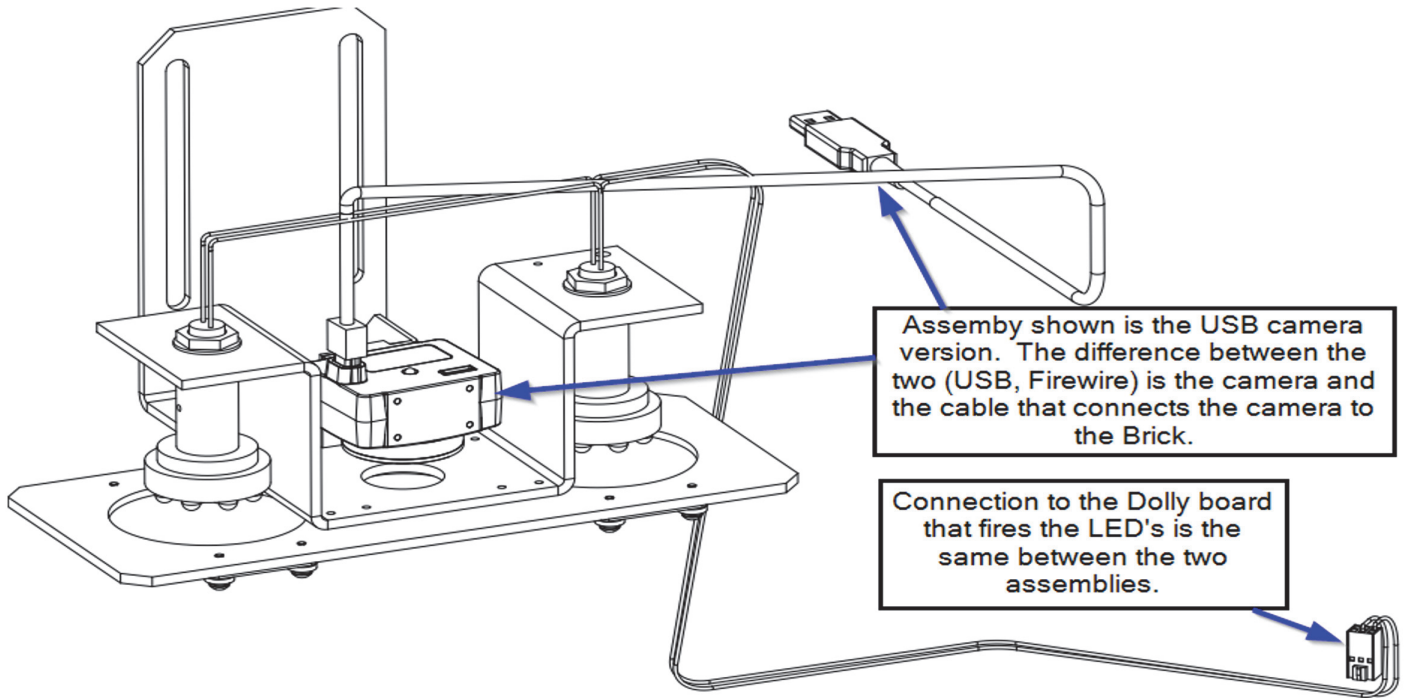
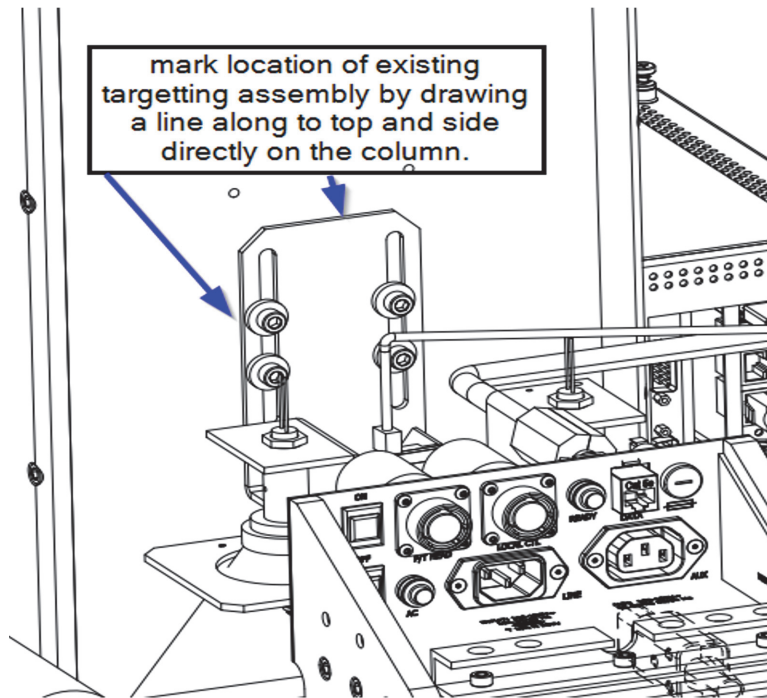


Figure 5 - Targeting Assembly

## To remove and replace the targeting assembly:

1. Mark the location of the existing targeting assembly on the column it is attached to (**Figure 6**).



**Figure 6 - Marking the Position of the Target Assembly**

2. Once the position has been marked remove the Firewire targeting assembly, this will include cutting the assembly wiring from the cable harness.
3. Once removed install the new USB camera assembly lining up the top and side edges with the marks made prior to removing the original assembly.
4. Connect the LED power connection to the dolly board and the USB camera connection to the top USB port on the Brick.
5. Test targeting assembly by trying to target the CamBot.