

DT BC100 Glass Replacement Instructions

The DT BC100 is our fastest and most powerful book capture system. Designed and built in the USA, the BC100 utilizes two camera systems to nearly double normal digitization output and quality. Complete with a pneumatic glass platen and optional pneumatic book cradle, and easy to use workflow, the BC100 offers complete protection to the original material.

CAUTION: The purpose of this document is to provide a reference for you when replacing the DT BC100 glass. This service operation can be completed by the customer without an on-site DT Technician, but it should be executed by someone comfortable working on mechanical devices. Failure to follow the instructions below could damage the equipment or cause injury.

Once you have received your equipment, please reach out to support@digitaltransitions.com or call +1 (212) 529-6825 option #4 to schedule a time with our team to assist you in performing the gas spring replacement.

DT will not be held responsible for any damage or injury caused by improper installation or calibration in the event that the user attempts to install the equipment without a support team member present.

It is essential that at least two people work on the installation. Each should be comfortable with lifting weights of up to 25 lbs.

Please reach out to us at support@digitaltransitions.com and we will be more than glad to discuss any questions or concerns you might have.

Sincerely,

The Digital Transitions Technical Support Team

Handling Requirements

1. 2 people
2. Latex/Nitrile Gloves
3. Padded work surface

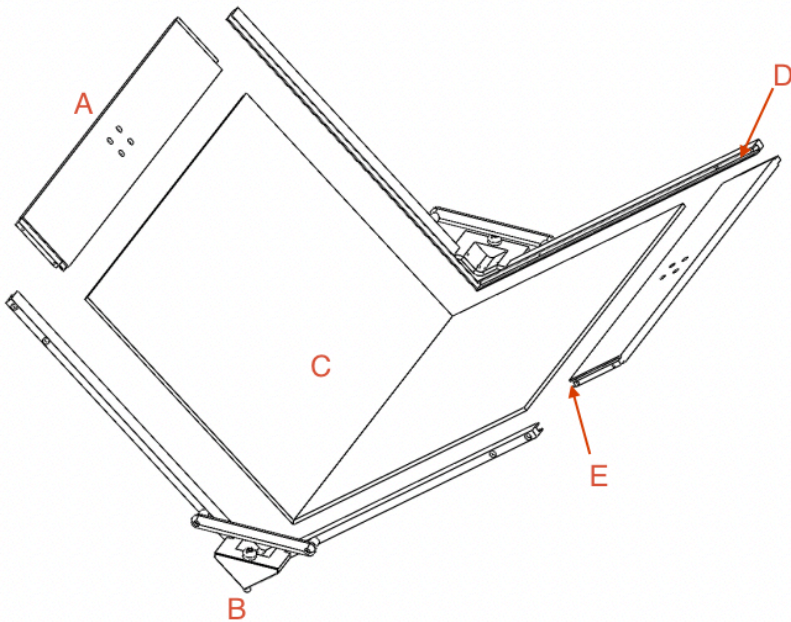
Tools

1. 1/8th hex key
2. Container for hardware
3. Blue painters tape

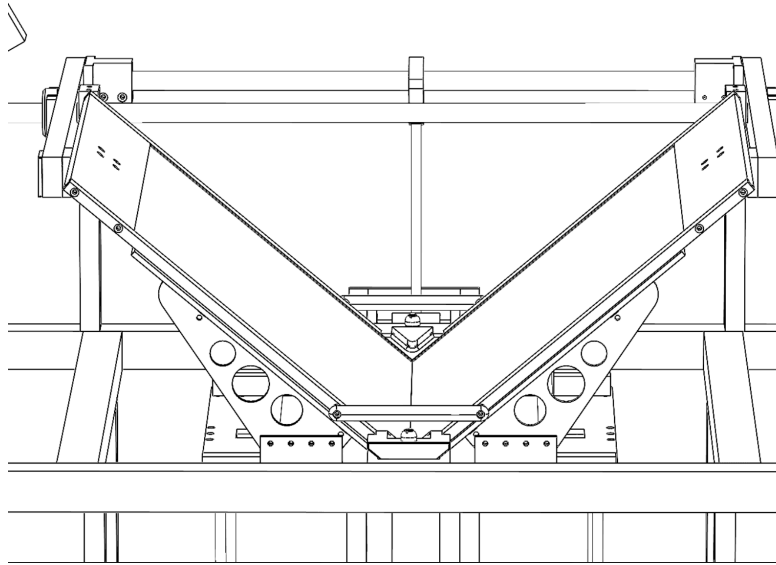
Parts

The glass platen has 10 parts:

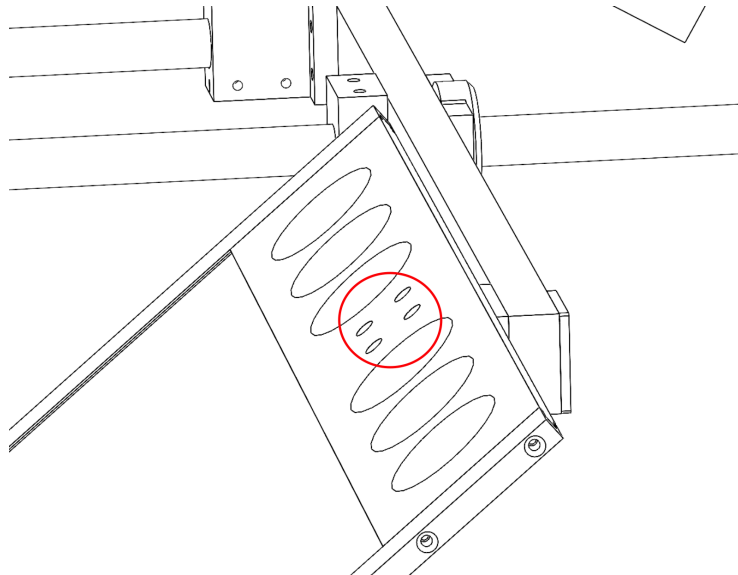
- A. Side Frame (2)
- B. V Frame (2)
- C. Glass panels (2)
- D. Rubber strips for V brackets (2)
- E. Rubber Strips for Side panels (2)



1. Move the glass cradle into the resting position (sitting in the stop).
 - a. **Note: This is a vital step before moving on to step 2. If the cradle is not fully into the stop, the frame will freely fall and may cause the glass to shatter, damage the equipment, and possibly cause an injury.**



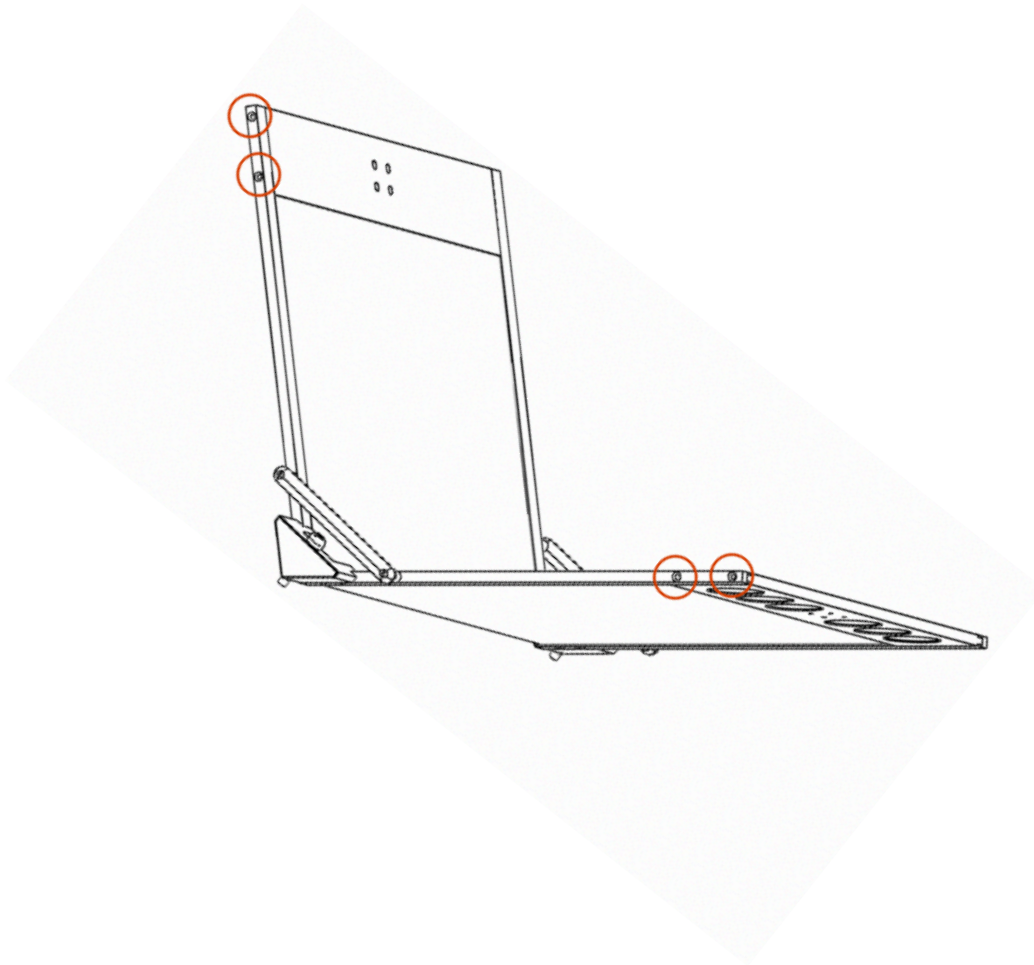
2. Loosen the Glass V platen from the arms.
 - a. There are 4 screws on each side, use a 1/8th hex key to remove them.



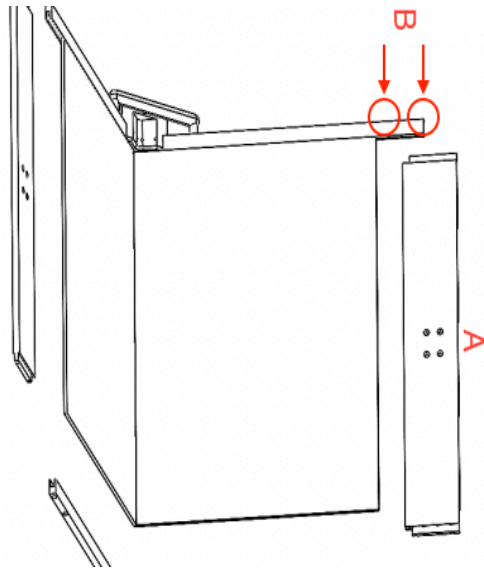
- b. Make sure the 1/8th hex key is completely inserted into the bolt before trying to loosen it.
 - c. Once the 8 screws are out, place them in a container.

3. Find a large stable table where you can lay down padding (the BC100's book foam is sufficient if no other source is available).
 - a. With the help of a second person: lift the Glass V platen from the arms and set the platen down with one side flat on the padded table.

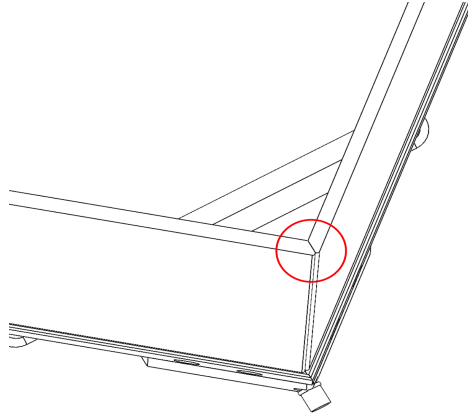
4. Remove the 4 bolts on one side of the V Frame, then remove the V Frame. There is a rubber gasket inside of the frame to protect the glass from contacting the frame.
 - a. Note: if you have not purchased new gaskets with your glass you will need to reuse these gaskets. Inspect carefully for debris or tears.



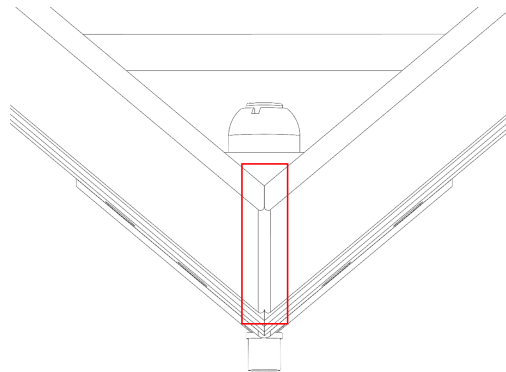
5. Remove the side panel (A) by removing the opposing 2 bolts (B)



6. Remove the glass panel and set aside. Rotate the platen so the remaining piece of glass is flat on the padded surface and repeat steps 4 and 5.
7. Remove all the gasket material from the frames, taking note of the orientation of features in the gasket. If you have new gaskets, the old gasket material can be discarded. If you plan to reuse the existing material, check for debris or damage before proceeding.
8. Lightly insert the gasket material into the channel on the V frames and side frames. The gasket should be inserted enough to be held securely, but out enough that the glass will push the gasket into the channel when fully inserted.
9. When inserting the new glass, we recommend wearing latex or nitrile gloves to reduce oil transfer from hands to the glass.
 - a. The glass edges NEED to be touching the rubber gasket. The rubber gasket wraps around the edge of the glass and sits between the glass and the brackets. If the glass is in contact with the brackets it may cause the glass to shatter.
 - b. The glass panes have beveled sides that face each other.



10. Insert both panes of glass into one of the V-brackets.
 - a. Make sure the gasket material does not fold under the glass.
 - b. Firmly push the glass panels toward each other making sure there is no gap between them. This can be tested by using a piece of paper and making sure the paper does not slide through from either side.
 - c. Once secure, use blue painters tape to hold the glass panels together.



11. Reinsert the side panels (A) with the rubber gasket, and secure. Make sure when installing the side panels that the 4 tapped holes for the BC100 Glass arm face inward, otherwise, the screws that you removed in step 2 will not fit.
12. Reinstall the opposing V-bracket with the gasket.
 - a. Start in the center and work towards the edges.
13. Secure the V frame with the 4 bolts.
 - a. These should thread in easily. Misalignment of the holes can indicate the gasket material has folded underneath the glass.

14. Remove the blue tape and re-check the center gap with a piece of paper.

15. Place the complete V-Cradle back into the BC100 arm and reattach the 8 bolts onto the arm (4 on each side) (step 2).