

Changing limits.

[Changing limits on a H117](#)

[Changing limits on a H101A](#)

[Changing limits on a ES111.](#)

Changing limits on the H117

Equipment required.

Small flathead screw driver.

H117

2.5mm hex key

1mm (0.05) hex key



Instructions:

Y:Axis

1. Ensure the unit is not connected to the controller.
2. Unscrew the three hex nuts holding the Motor cover (indicated in Figure a).
3. Remove the Motor cover.
4. Unscrew the three flat head screws, (indicated in Figure b).
5. Place a finger under the motor as indicated in Figure c.
6. Gently push the drive box cover under and past the motor cover, (the box will turn and pop free of the motor).
7. Lift the drive box cover being careful not to catch any cables.
8. Lay the drive box cover down next to the stage, being careful not to extend the cables connected to 25 way connector.
9. The limit switches are indicated in Figure d.
10. Unscrew the two flat head screws of the limit to be adjusted.
11. Push the limit to the position required.
12. Tighten the flat head screws to fix the limit in position.
13. Place the cover down from above, ensuring all the cables are inside.
14. Push the drive box cover down and under the motor cover until it return to it original position.
15. Ensure that no cables have been trapped by the cover.
16. Replace and tighten the three flat head screws.
17. Replace the Motor Cover, ensuring no cables are captured.
18. Tighten the hex nuts to fix the Motor cover.

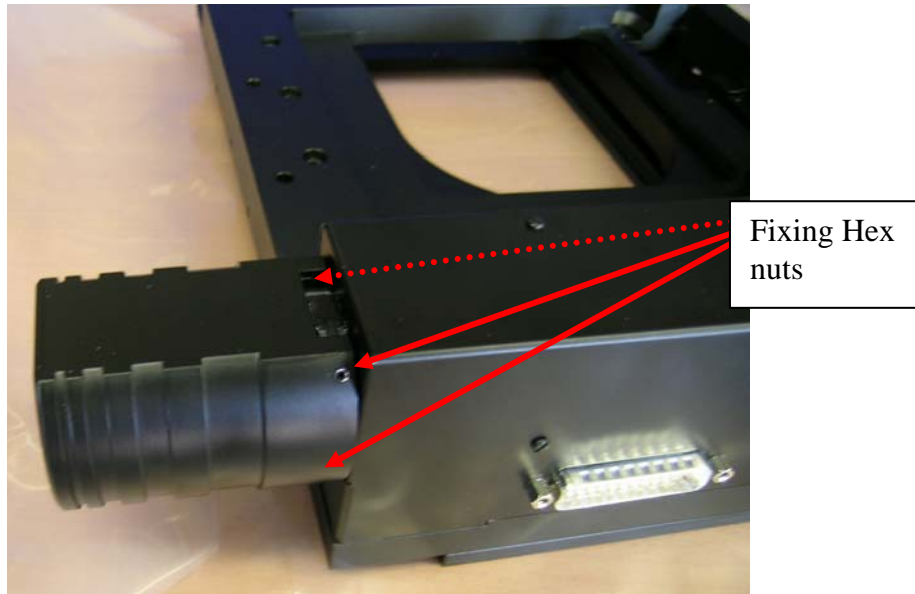


Figure a: Motor cover hex nuts.

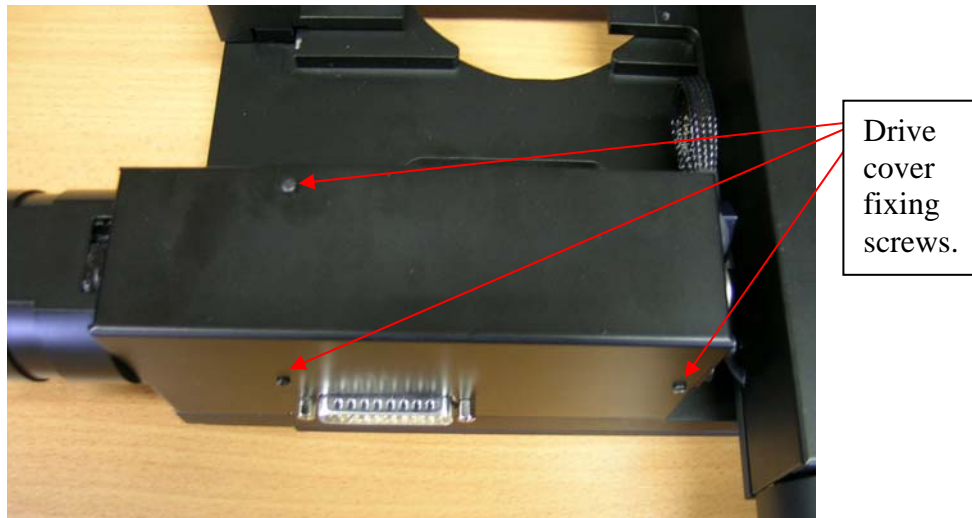


Figure b: Drive cover box fixing screws.

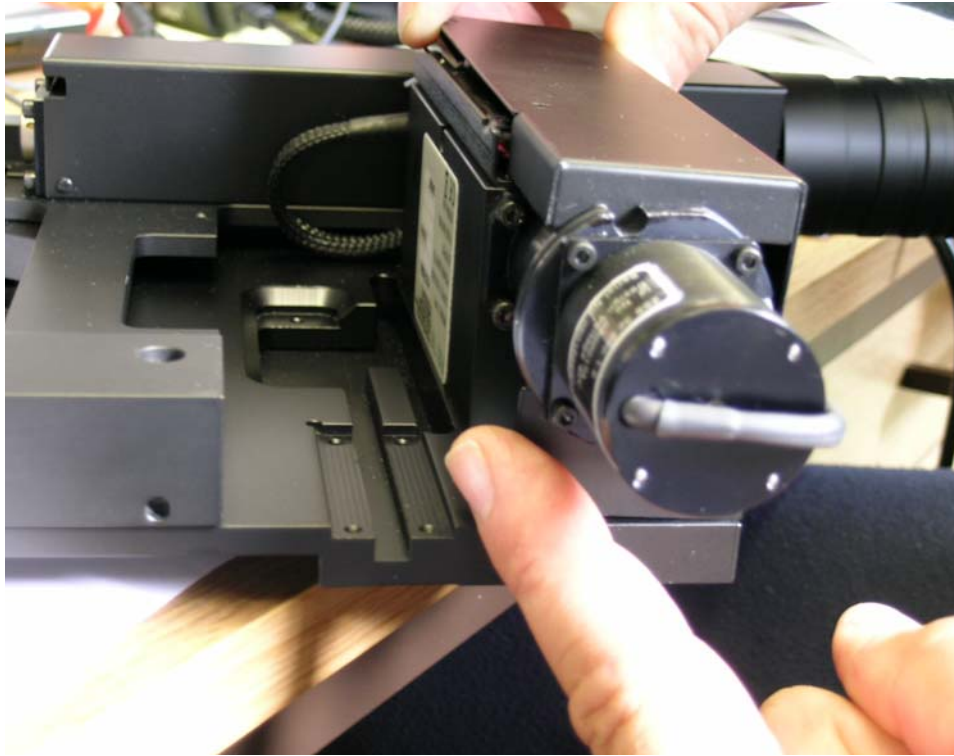


Figure c: Removing the drive box cover.

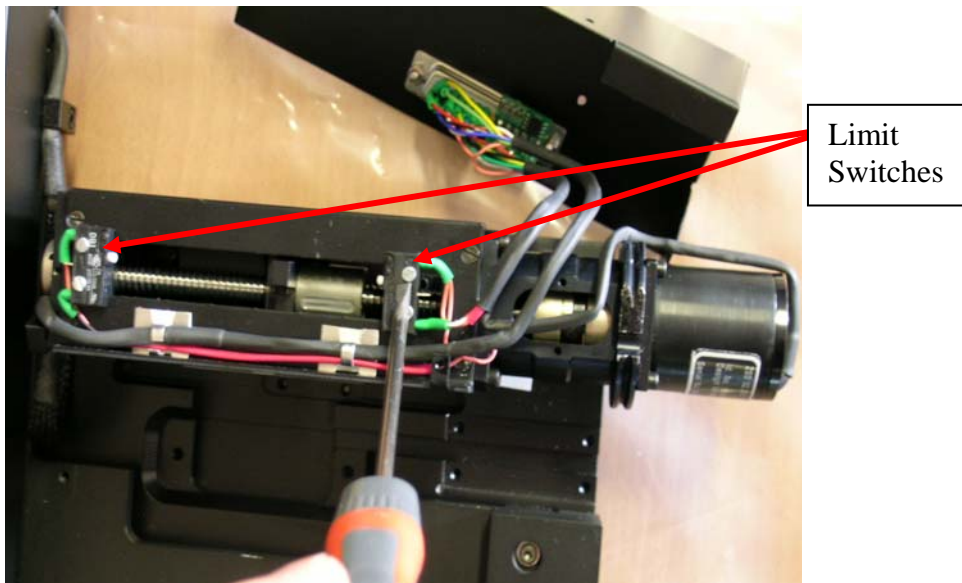


Figure d: Limit switches.

X-Axis.

1. Ensure the unit is not connected to the controller.
2. Move the stage axis so that there is access to the cable holder and screws, indicated in Figure e.
3. Unscrew the four flat head screws, and loosen the cable holder (indicated in Figure e).
4. Place a finger under the right hand side of the drive box cover near the motor cover, and lift the cover vertically off.
5. The limit switches are indicated in Figure f.

6. Unscrew the two flat head screws of the limit to be adjusted.
7. Push the limit to the position required.
8. Tighten the flat head screws to fix the limit in position.
9. Replace the cover, ensuring that the drive cable, (indicated in Figure f) exits the cover via the provided hole.
10. Replace and tighten all four screws and cable holder.

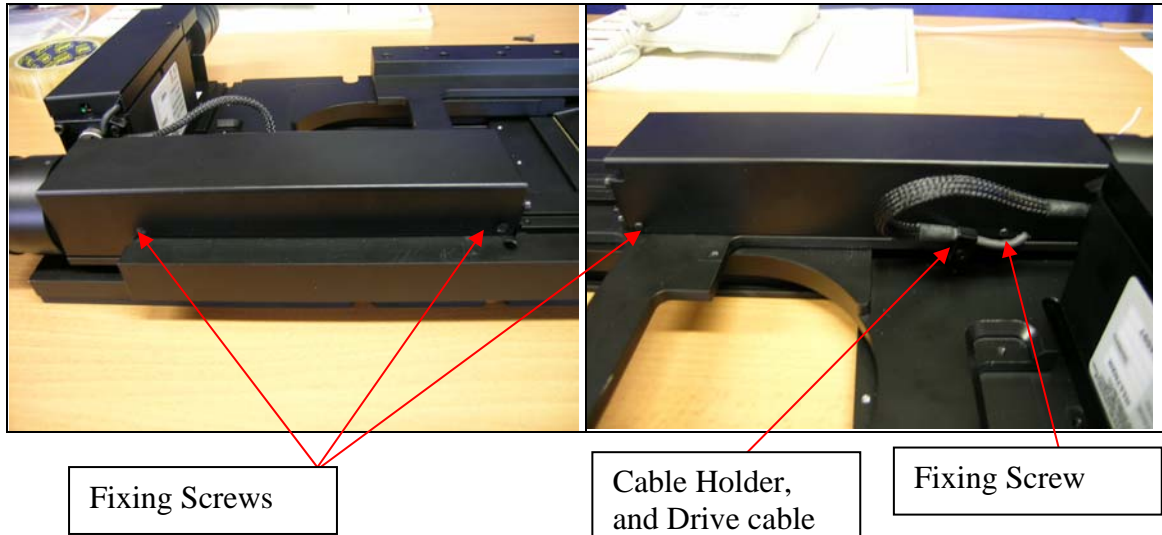


Figure e: Drive cover fixing screws.

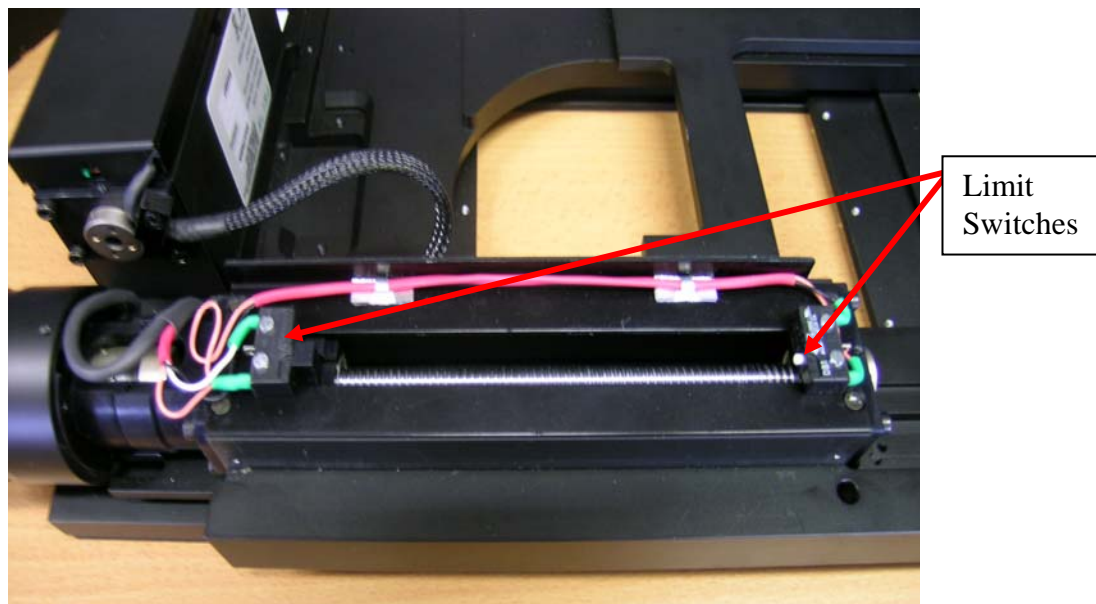


Figure f: Limit switches.

Changing the limits on a H101A.

Equipment:

Small flathead screw driver.

H101A Stage



Y-Axis:

1. Ensure the unit is not connected to the controller.
2. Unscrew the three flat head screws, (indicated in Figure a).
3. Lift of drive box cover.
4. Limit switches are indicated in Figure b.
5. Unscrew the two flat head screws of the limit to be adjusted.
6. Push the limit to the position required.
7. Tighten the flat head screws to fix the limit in position.
8. Replace cover and ensure no cables are captured.
9. Replace and tighten screws.

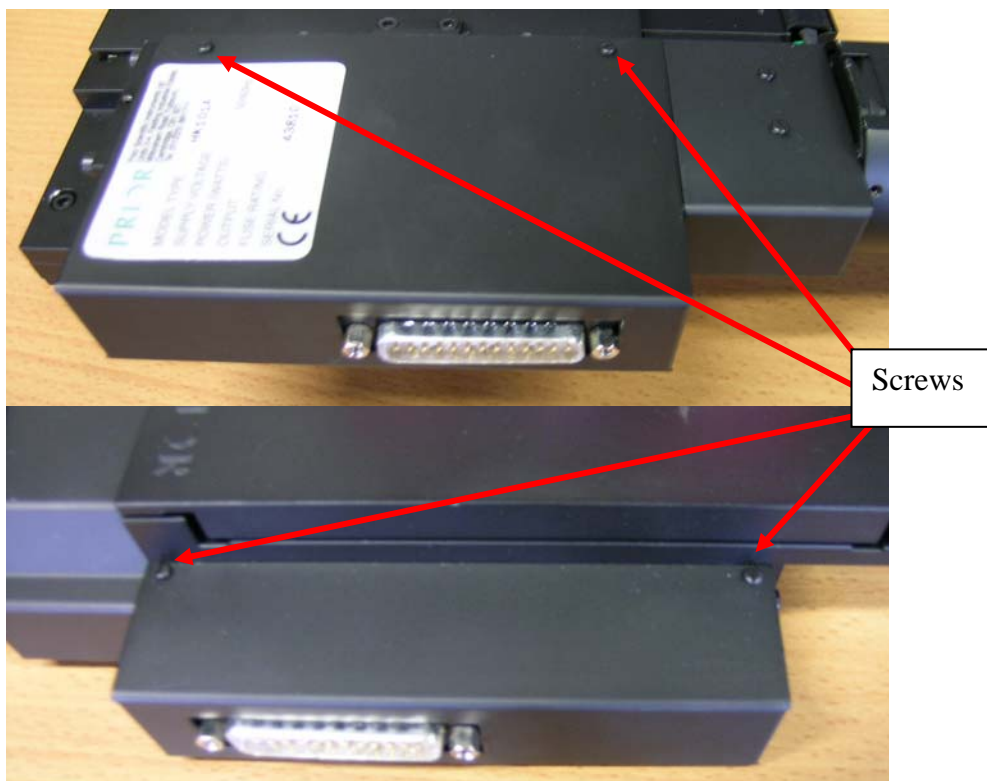


Figure a: Position of cover screws.

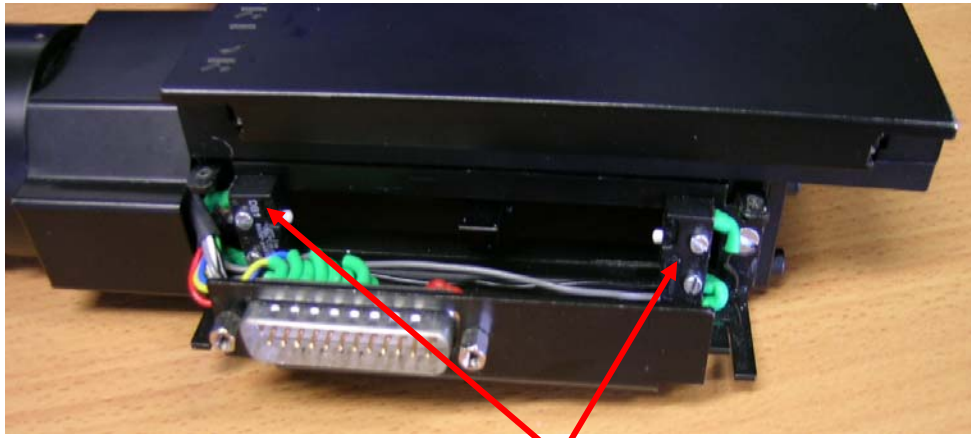


Figure b: Position of limit switches.

Limit Switches

X-Axis

1. Ensure the unit is not connected to the controller.
2. Unscrew the three flat head screws, (indicated in Figure c).
3. Lift of drive box cover.
4. Limit switches are indicated in Figure d.
5. Unscrew the two flat head screws of the limit to be adjusted.
6. Push the limit to the position required.
7. Tighten the flat head screws to fix the limit in position.
8. Replace cover and ensure no cables are captured.
9. Replace and tighten screws.

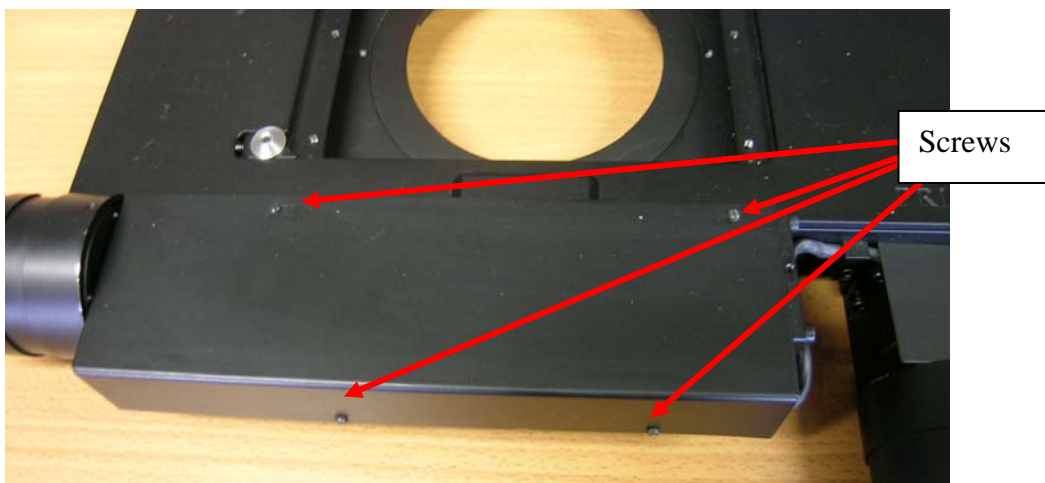


Figure c: Position of cover screws.

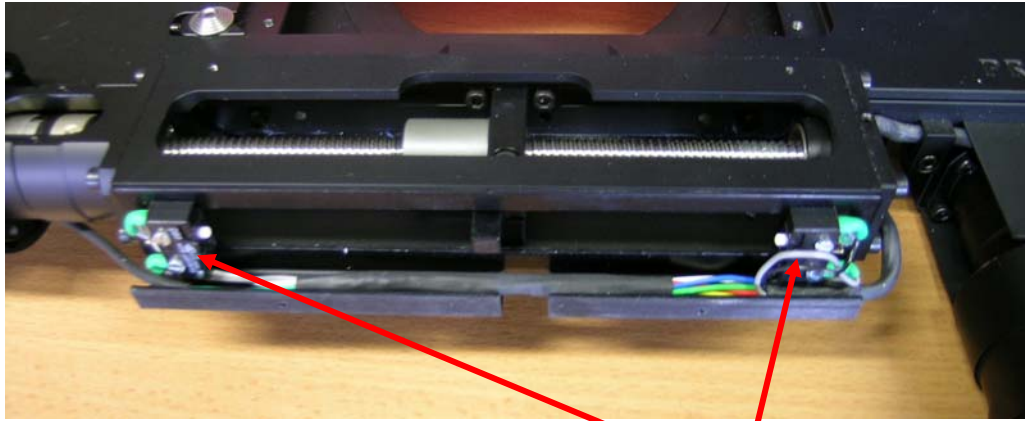


Figure d: Position of limit switches.

Limit Switches

Changing the limits on an ES111.

Equipment:

Small flathead screw driver.

H111 Stage

2mm Hex key

1.5mm hex key



Y-Axis:

1. Ensure the unit is not connected to the controller.
2. Unscrew the two flat head screws, (indicated in Figure a).
3. Unscrew the three hex nuts, (indicated in Figure a).
4. Place fingers under drive box cover as indicated in Figure b.
5. Lift of drive box cover, until released by stage.
6. Limit adjust hex screws and limit adjust bars are indicated in Figure c
7. Unscrew the hex nut for the limit which is to be adjusted.
8. Push the limit adjust bar to the position required.
9. Tighten the hex nut head screws to fix the limit in position.
10. Place cover over the cable connector first and push down to clip back into position, (ensure no cables are captured).
11. Replace and tighten screws, and hex nuts.

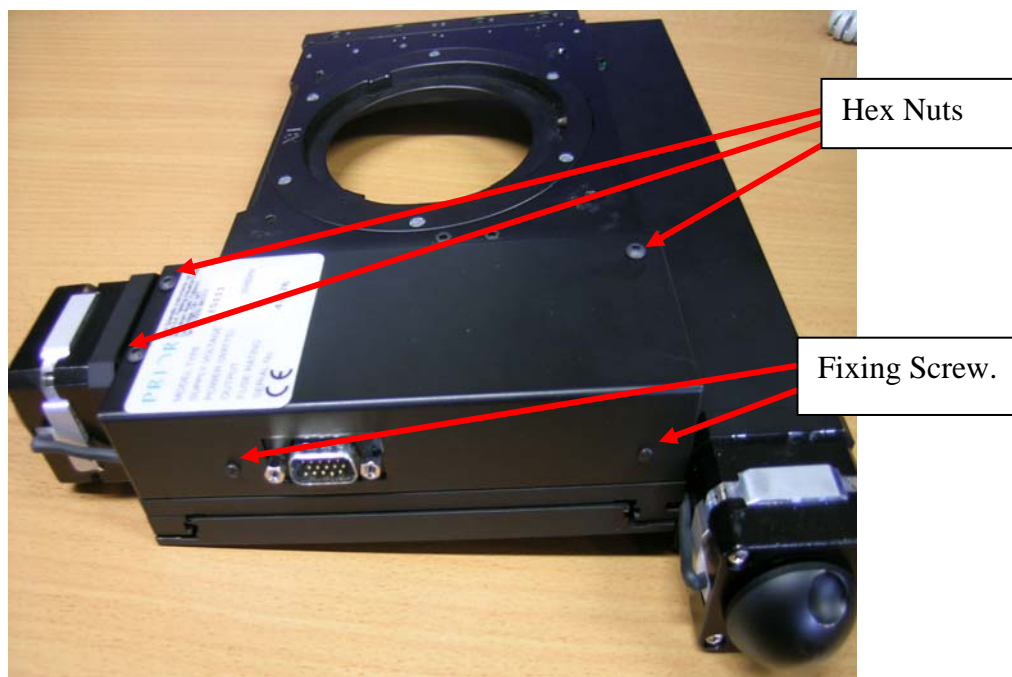


Figure a: Position of Screws and hex nuts.



Figure b: Removal of Y-axis drive cover.

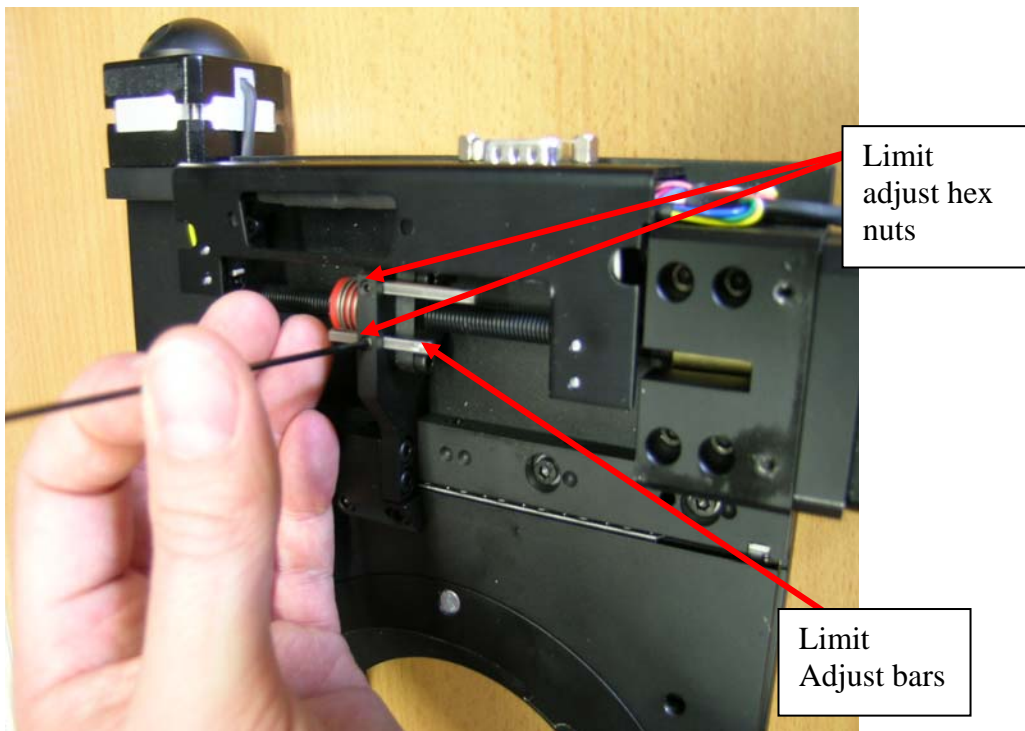


Figure c: Altering limit switches.

X-Axis:

1. Ensure the unit is not connected to the controller.

2. Unscrew the three hex nuts, (indicated in Figure d).
3. Ensure the bottom plate of the stage does not overhang the drive box cover.
4. Place fingers under drive box cover as indicated in Figure e.
5. Lift of drive box cover, as you do so lift the end of the drive box cover as indicated by the arrow.
6. Limit adjust hex screws and limit adjust bars are indicated in Figure f.
7. Unscrew the hex nut for the limit which is to be adjusted.
8. Push the limit adjust bar to the position required.
9. Tighten the hex nut head screws to fix the limit in position.
10. Place cover over the cable connector first and push down to clip back into position, (ensure no cables are captured).
11. Replace and tighten screws, and hex nuts.

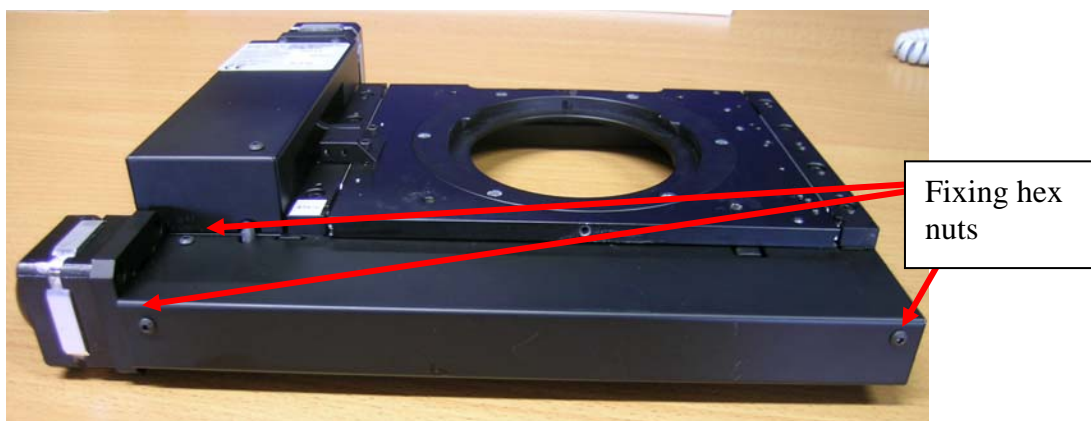


Figure d: Fixing hex nuts.

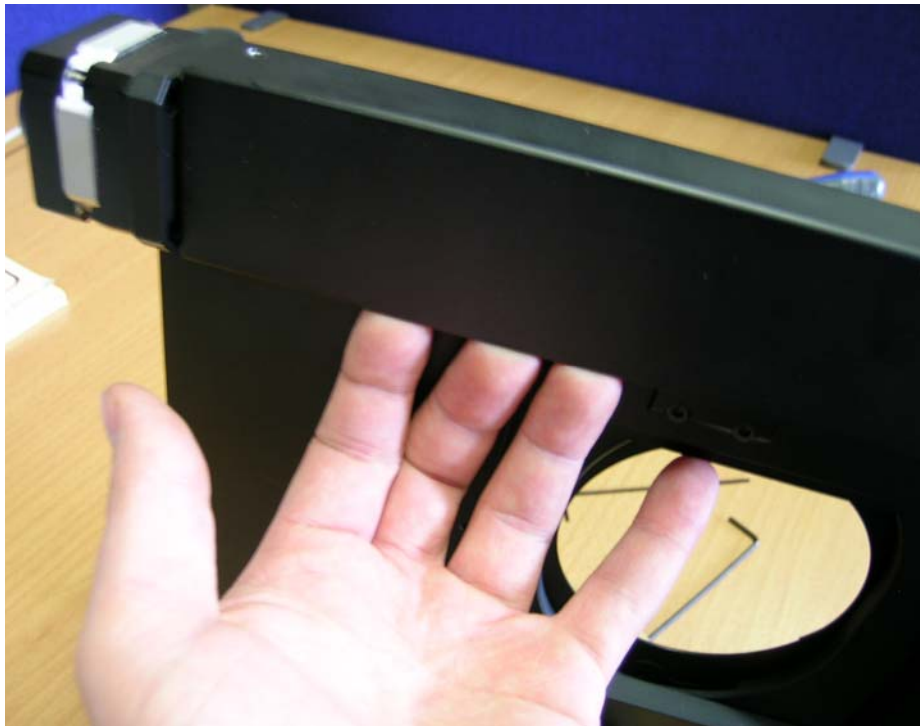


Figure e: Removing Drive box cover.

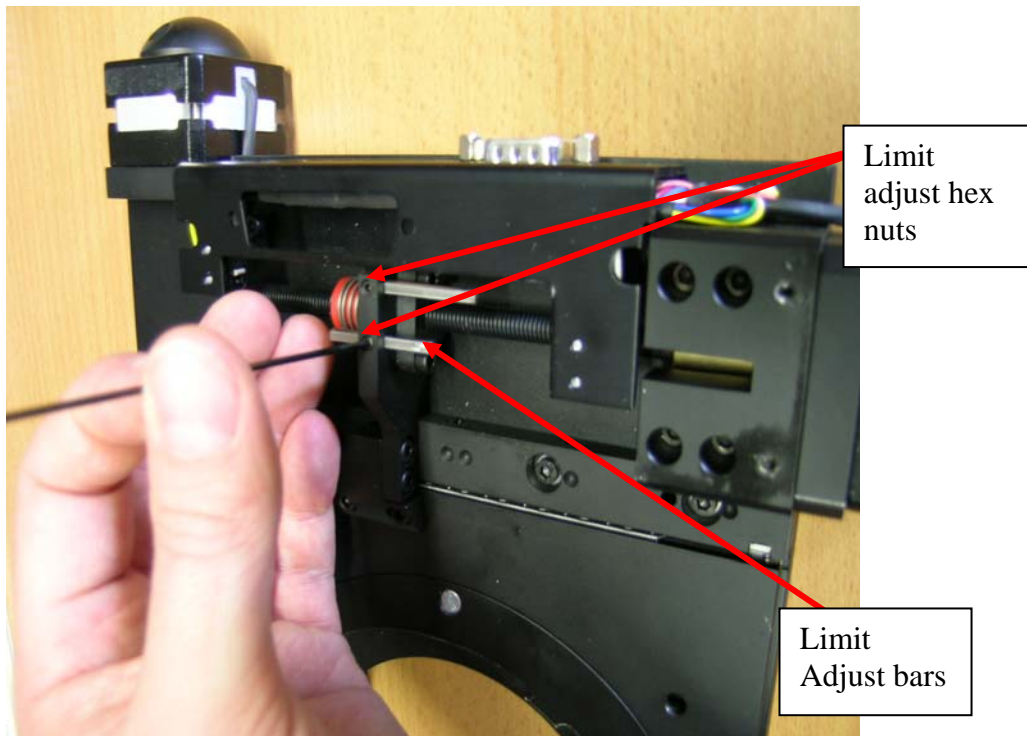


Figure f: Altering limit switches.