## **EZ Align Lamp Alignment Tool**

## These instructions assist KinExA® users with proper lamp alignment using the EZ Align tool.

**Note:** This procedure has been developed to work with the red filter set. For aligning the lamp with other filter sets see How to Guide 204 *Lamp Replacement and Alignment* (**HG204**).

## **Tools Needed:**

- 2 mm Ball Driver (P/N: 011020)
- 1.5 mm Ball Driver (P/N: 011015)
- EZ Align (P/N: 800510)
- Dielectric Grease (P/N: 231362)
- (Optional) Lamp Replacement (P/N: 511046)

## **Procedure:**

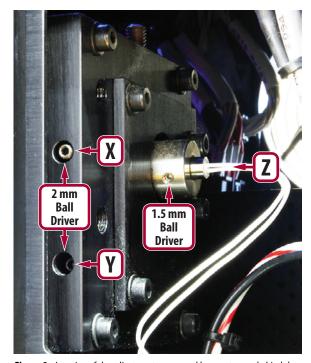
- Turn the lamp **OFF**, then unclip the flow cell and move it out of the way.
- Make sure the fluorescent target on the EZ Align has a light coating of dielectric grease and then clip it in place of the flow cell. Look at the EZ Align logo. It should be right side up and properly aligned (*Figure 1*).
- Open the lamp access door by removing the two thumb screws.
- Turn the lamp **ON**.
- Press Start.
- To adjust the Z-Axis, loosen the set screw (*Figure 2*) using the 1.5 mm Ball Driver. Move the lamp in and out, by grasping the white wires, until maximum signal is found and then tighten the set screw.

**Note:** Use the white wires to focus the lamp because the lamp casing can become hot. Avoid touching the lamp.

- Then to adjust the X and Y-Axis, manipulate the two adjustment screws shown in *Figure 2* using the 2 mm Ball Driver.
  Adjust both screws until maximum signal is found.
- When finished, remove the EZ Align. Make sure to clean it and the flow cell groove with denatured alcohol.
- When replacing the flow cell, remember to add a small dab of dielectric grease.
- Replace the lamp access door and secure the two thumb screws.



**Figure 1.** Orientation of the EZ Align tool installed in the flow cell groove.



**Figure 2.** Location of the adjustment screws and lamp set screw behind the lamp access door.