How to adjust the sample stage to center the cross hairs in the Quad-Detector Alignment Window

1. The sample stage is adjusted by making use of the tilt knobs (X & Y).

2. However, the process did not work on Aug. 12 2011 since a metal ball (diameter about 6 mm) did not take its position (it fell from the right position and was found on the Z-Stage translator) (Picture a).

3. The right position of the metal ball is the lower right corner (Picture a & b).

4. Just pulling the lower right corner of the sample chuck, and pushing the ball into the space between the sample chuck and the tilt knob side of chuck (Picture b).

5. There is a small hollow which fits the size of the metal ball. Once it fits in there, it is not so easy to drop down from there.

6. After the ball is set on a right position, go to the "Quad-Detector Alignment Window" and center the cross hairs by using the both X- and Y-tilt knobs.

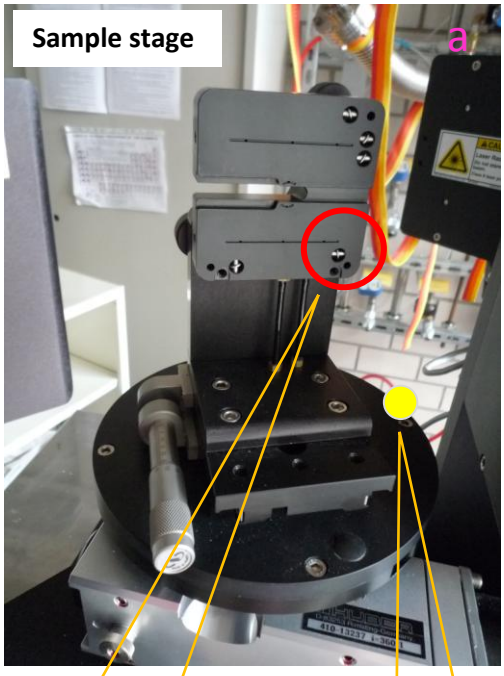
Problem

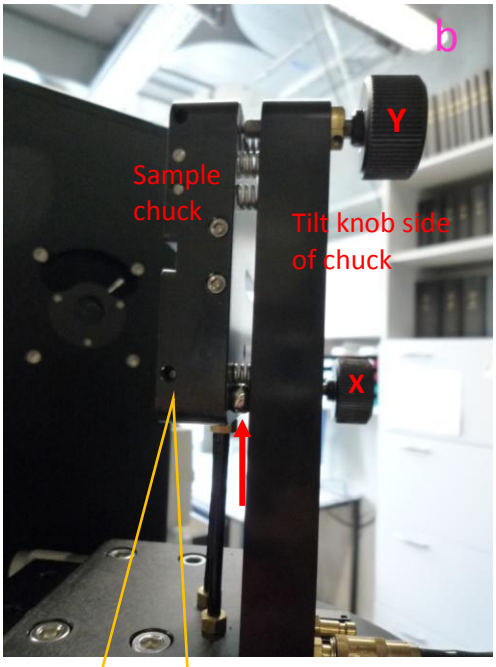
- The problem was probably happened when the heat cell was removed from the sample stage.

A point to note

- When you remove or attach the heat cell, please be careful and pay attention to the missing parts between the sample chuck and the tilt knob side of chuck.

- There is only one metal ball in this sample stage.





The right location of the ball is behind of this corner.

The metal ball was found here.

Pulling this corner a bit and insert the ball like the direction of the arrow.

Aug. 18 2011 by Akemi