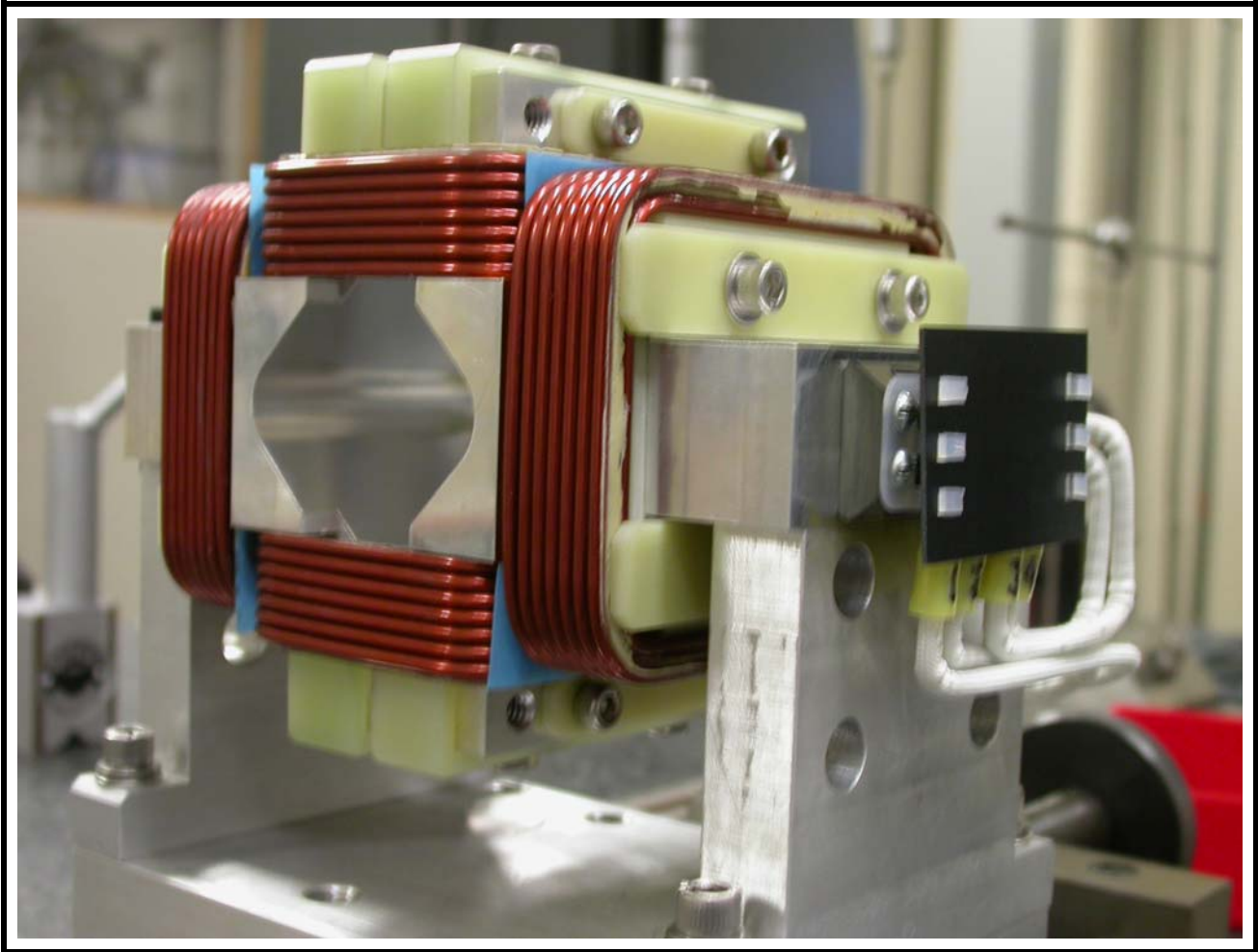


## LCLS type 1g Corrector Magnet FIDUCIALIZATION REPORT



Inspector: Keith Caban  
Responsible Engineer: T. Borden  
Date: Friday, January 12, 2007  
Work Order/Charge No.: 92-4216-9  
Serial Number: 002408  
URL of Fiducial Report: <\\Web002\www-group\met\Quality\FIDUCIAL REPORTS\LCLS Corrector Magnets\002408.pdf>

## Part Set-up – Coordinate System Set-up

### Spatial Alignment

- Inner Center line created below (x,y zero setup)

### Planar Alignment

- 4 intersection points of the inner planes in the horizontal plane.

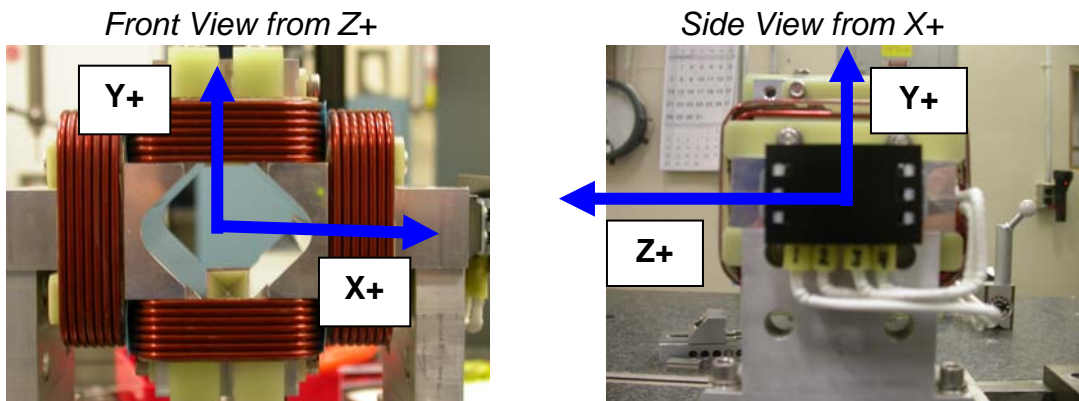
### “Z” Zero

- Mid-Plane of the magnet

### “X” & “Y” Zero

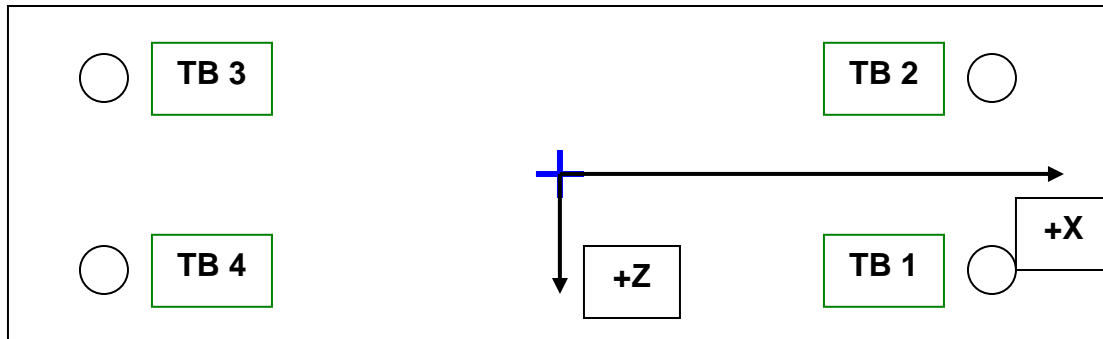
- Inner planes intersect with each end to create 4 diagonal axis
  - 4 Diagonal Axis intersect to create 4 points on each side.
  - Use radius side intersection points to create X axis
  - Use top and bottom intersection points to create Y axis
  - Intersect x,y axis' on both sides to get center points
  - These center points collected create a line which is the center of the magnet and x,y zero and Spatial Alignment

STANFORD LINEAR ACCELERATOR CENTER



## Tooling Ball Measurements/Locations

Top of magnet; view from “+Y”



Tooling Ball	FORM	DIAMETER	X	Y	Z
<b>TB 1</b>	0.00052	0.49758	2.68859	1.50484	0.75188
<b>TB 2</b>	0.00079	0.49792	2.68810	1.50427	-0.74822
<b>TB 3</b>	0.00142	0.49601	-2.68527	1.50468	-0.75053
<b>TB 4</b>	0.00108	0.49549	-2.68653	1.50421	0.74926

