Linac Coherent Light Source
Stanford Linear Accelerator Center
Stanford Synchrotron Radiation Laboratory

LCLS BC 1 Magnet
FIDUCIALIZATION REPORT

Inspector:	Keith Caban
Responsible Engineer:	Jose Chan
Date:	Tuesday, August 29, 2006
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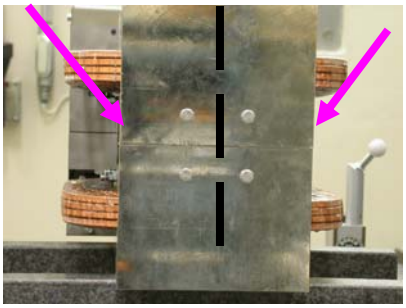
Part Set-up – Coordinate System Set-up

Planar Alignment

- Mid-Plane of the magnet



Spatial Alignment

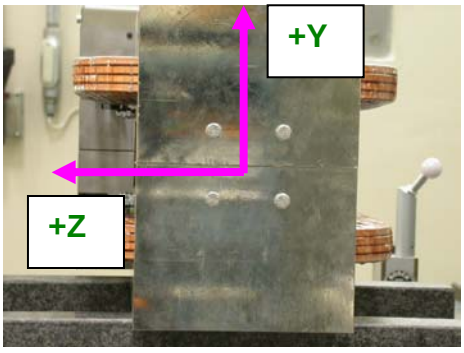
- Top of magnet where label is.

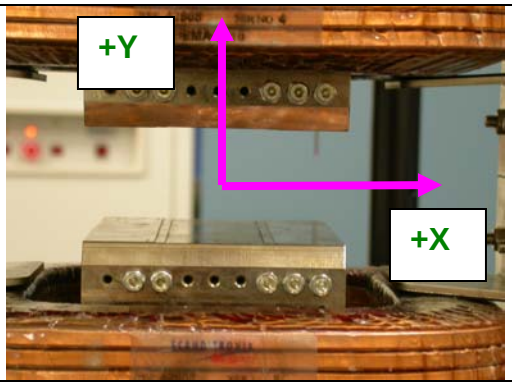
"Z" Zero

- Mid-Plane of the magnet.

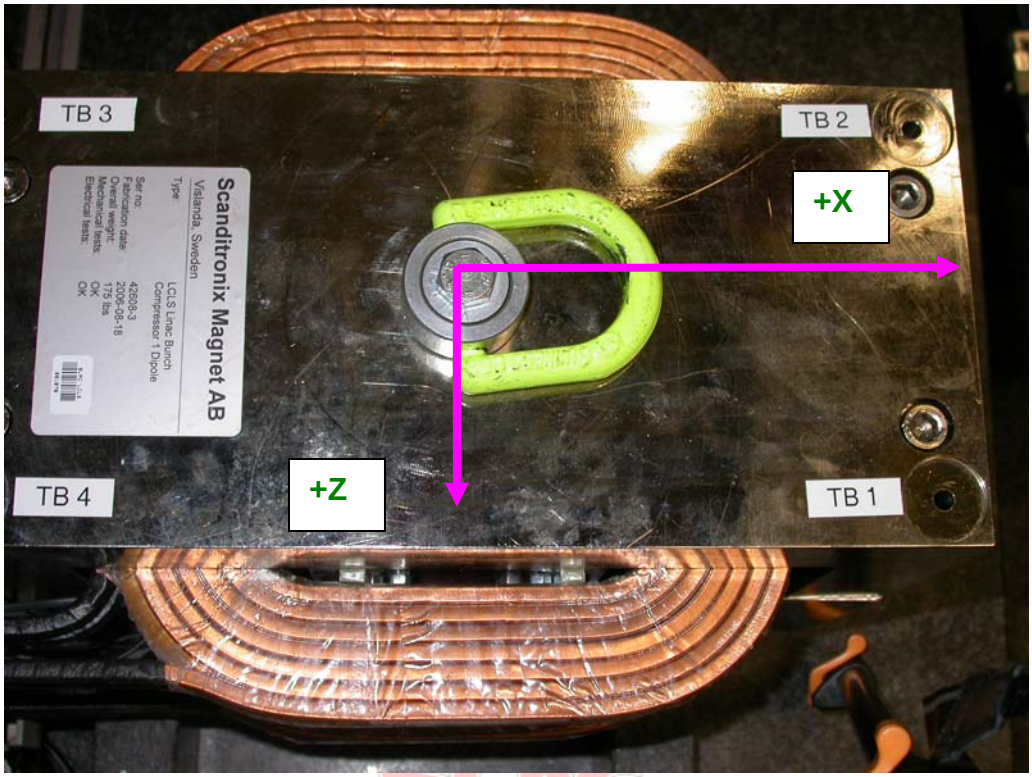
"X" & "Y" Zero

- X zero is created by the symmetry point of the inner stainless steel where coils lie.
    - Both ends of both sides.
        - Create lines which is y axis.
            - This Creates X- zero
- Symmetry of pole planes
    - This creates Y- zero





Tooling Ball Measurements/Locations



Tooling Ball	FORM	DIAMETER	X	Y	Z
TB 1	0.00189	0.49281	6.04905	5.66664	2.53078
TB 2	0.00211	0.49180	6.05072	5.66678	-2.52648
TB 3	0.00116	0.49521	-6.04009	5.67943	-2.53428
TB 4	0.00367	0.49124	-6.04375	5.68181	2.54398