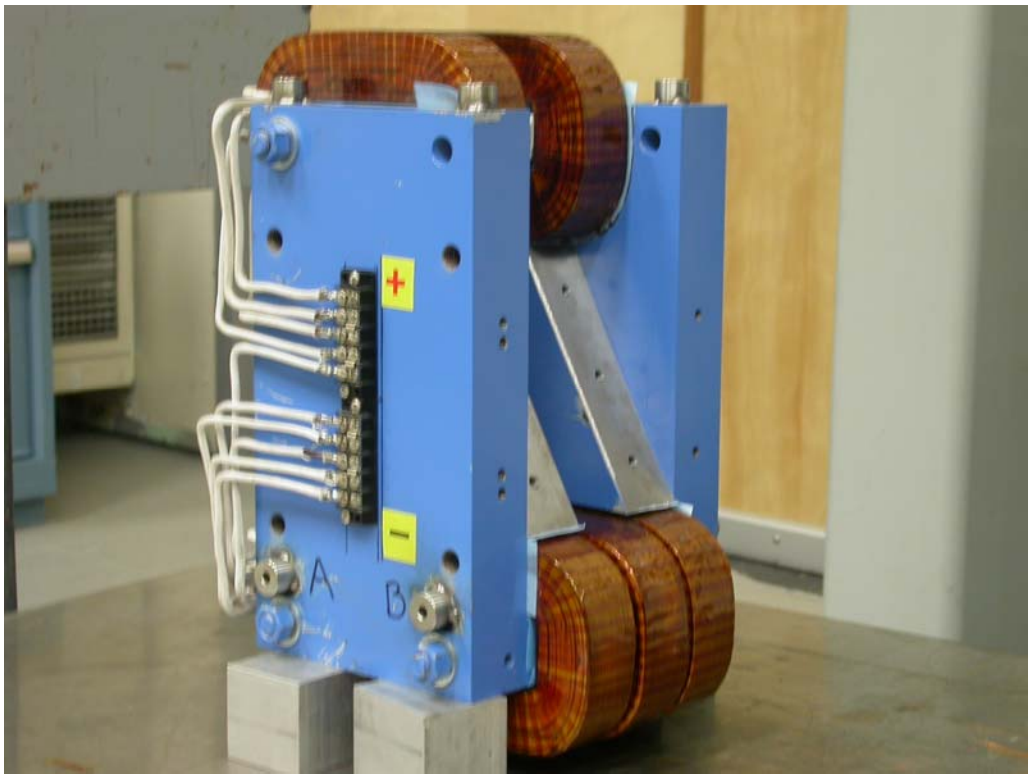
STANFORD LINEAR ACCELERATOR CENTER

E163 Gun Spectrometer
FIDUCIALIZATION REPORT

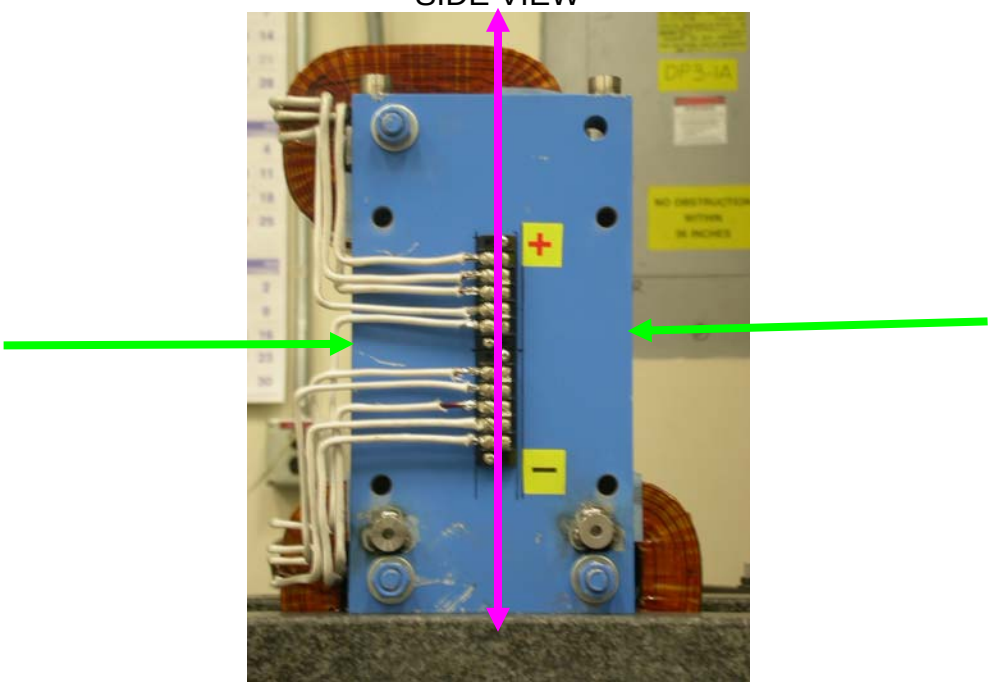


Inspector:	Keith Caban
Engineer:	Jim Spencer
Date:	06/10/05
Charge No:	12-1410-1
Mag. S/N:	N/A

Fiducialization Coordinate System Set Up:

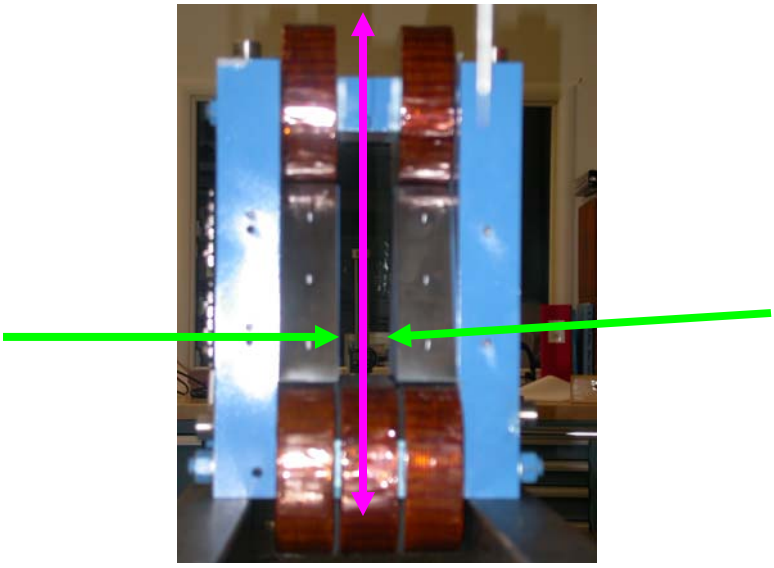
Magnet is set on 2 granite parallels as displayed in the photo below.

SIDE VIEW



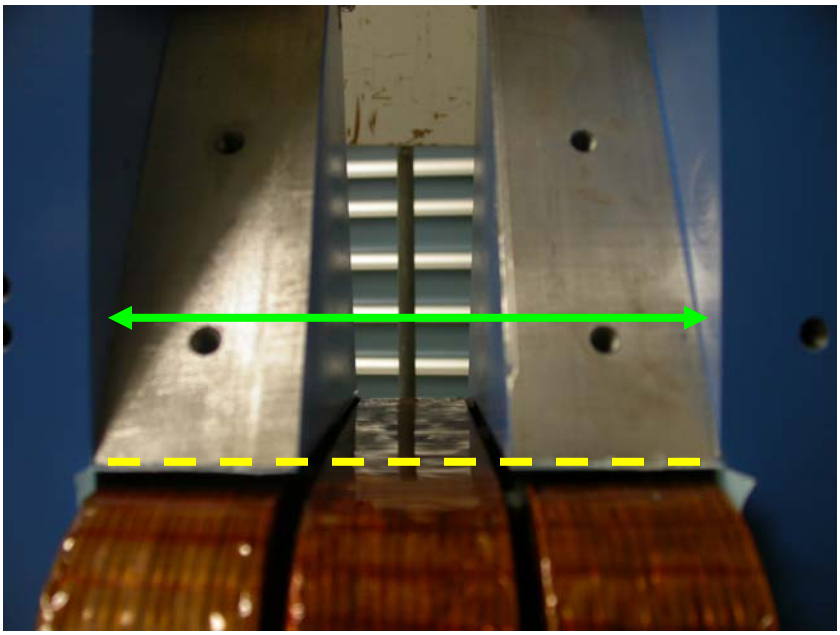
Z zero is set by the mid-plane of these 2 surfaces.
(Distance width = 6.2552”)

FRONT



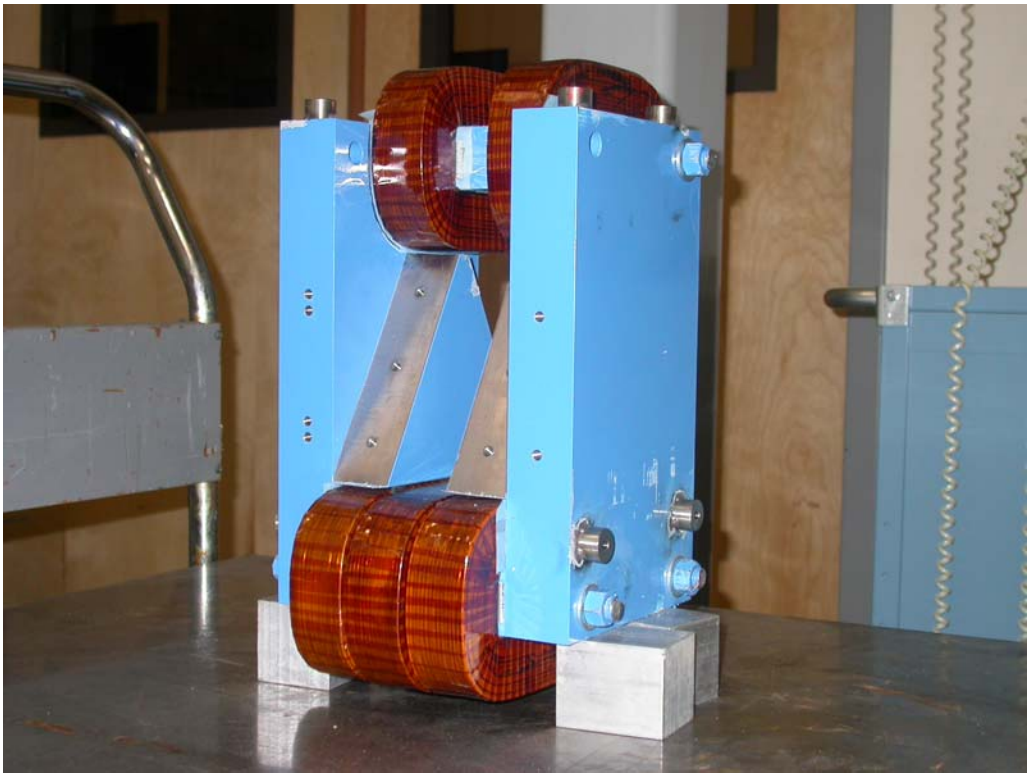
X zero is set by the mid-plane of these 2 surfaces.
(Distance between = 1.5740”)

ZOOM FRONT VIEW



Y zero is the bottom of Triangular plates (2 ea) plane shifted up (green line) 1.500”. (Dist from Green Line to bottom where Granite Parallels = 3.060”)

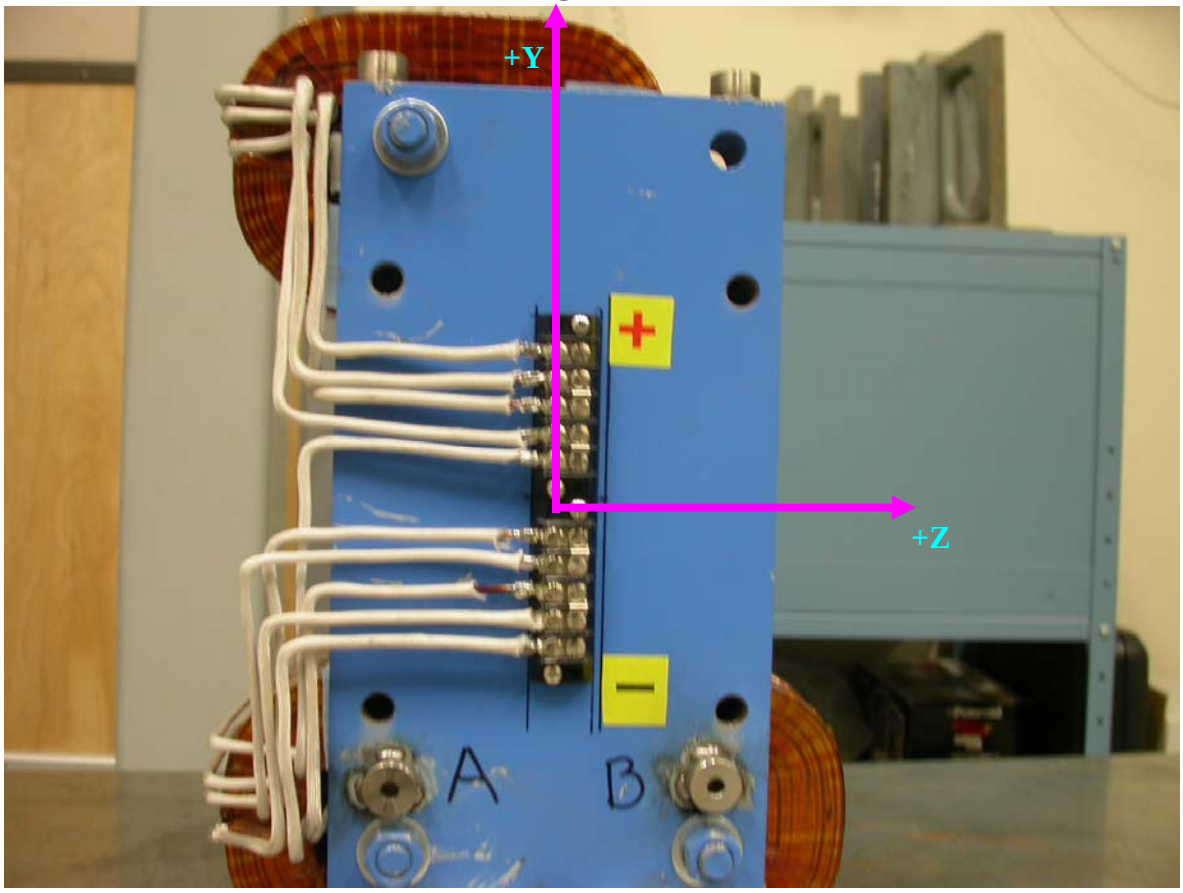
3-D VIEW



Tooling Ball Fiducials

- using ½" Diameter Tooling Balls w/ 1" Extension

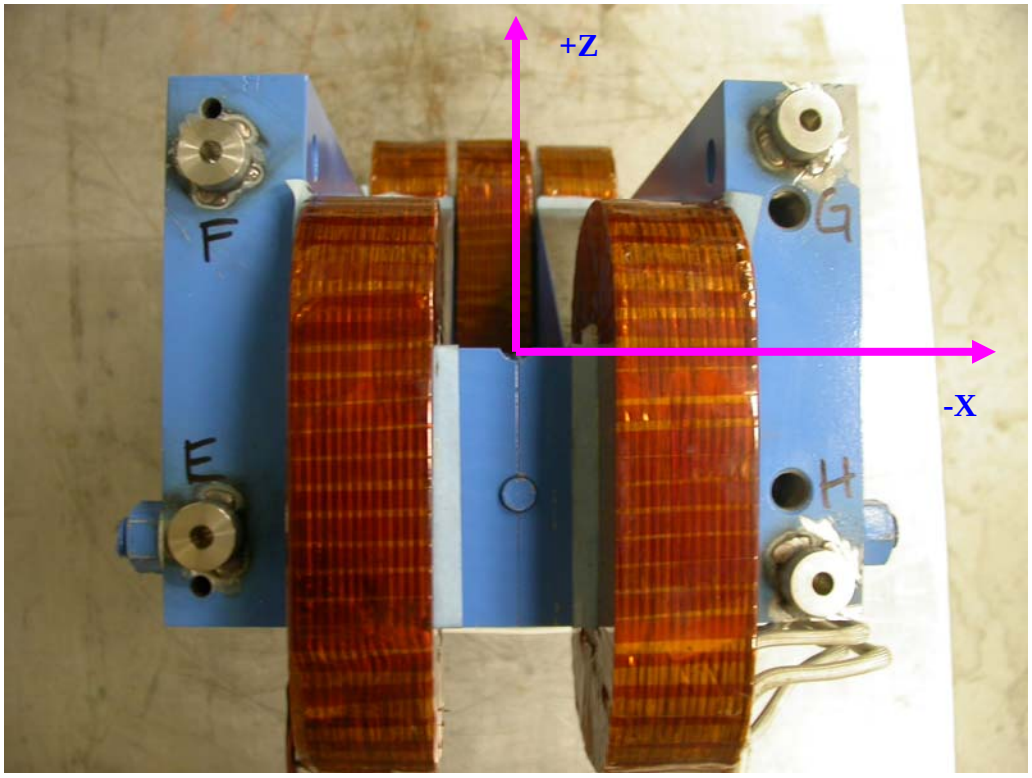
TB'S A - D



TB C & D ON OPPOSITE SIDE

TB	FORM	DIAMETER	X	Y	Z
TB A	0.00030	0.49708	-5.50796	-2.80649	-2.24880
TB B	0.00038	0.49731	-5.50348	-2.77013	2.27880
TB C	0.00048	0.49797	5.50324	-2.41333	2.44159
TB D	0.00021	0.49870	5.49870	-2.31543	-2.26850

TB'S E - H



TB	FORM	DIAMETER	X	Y	Z
TB E	0.00053	0.49804	3.43368	8.45147	-2.07726
TB F	0.00029	0.49977	3.37223	8.45125	2.11399
TB G	0.00054	0.49777	-3.25546	8.44859	2.53822
TB H	0.00056	0.49726	-3.35994	8.45149	-2.60550