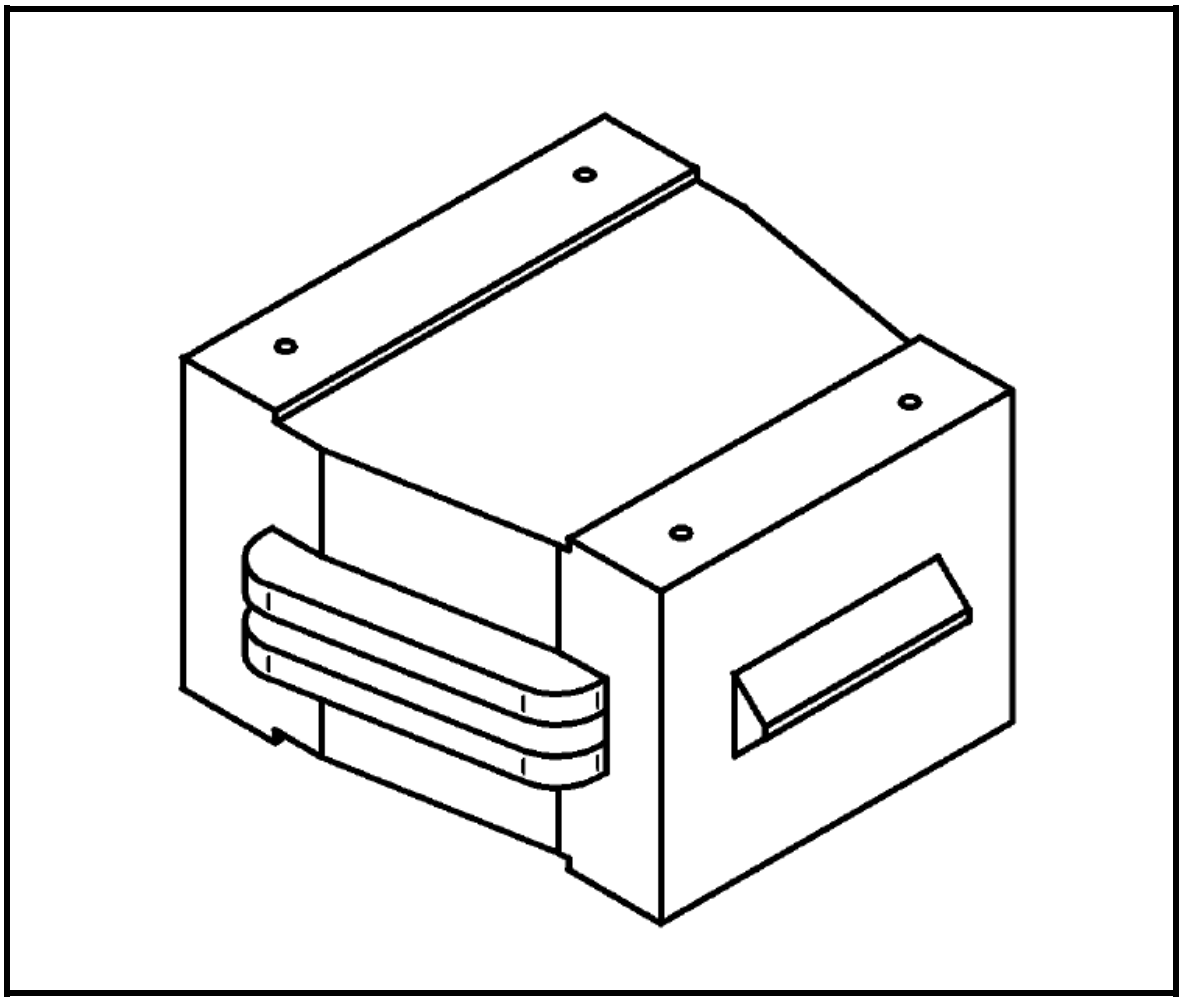
Linac Coherent Light Source
Stanford Linear Accelerator Center
Stanford Synchrotron Radiation Laboratory

LCLS BXS Spectrometer Dipole Magnet
FIDUCIALIZATION REPORT



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Responsible Engineer:	Tom Borden
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Part Set-up – Coordinate System Set-up

Spatial Alignment

- Geometric horizontal symmetry plane of the poles of the magnet.

Planar Alignment

- Mid-Plane of the angled ends (stainless steel) of the Magnet

“Z” Zero

- Mid-Plane of the magnet

“Y” Zero

- Mid-plane of the horizontal pole planes of the magnet

“X” Zero

- Symmetry axis of the angled pole planes on the lower half of the magnet.

Tooling Ball Measurements/Locations

Tooling Ball	FORM	DIAMETER	X	Y	Z
TB 1	0.0005	0.4969	-10.5452	8.6664	-9.0839
TB 2	0.0005	0.4961	8.7113	8.6667	-7.3582
TB 3	0.0006	0.4968	8.6851	8.6655	7.3498
TB 4	0.0002	0.4981	-10.5553	8.6658	9.0841

Pole Distances

GAP	GAP DIST (Y)	X location	Z location
1	**1.3388**	**3.3121**	**7.9563**
2	**1.3390**	**-3.4311**	**8.7110**
3	**1.3397**	**3.4273**	**-7.9564**
4	**1.3396**	**-3.0787**	**-8.8520**