FACET-II Magnet Fiducialization Report
CHICANE DIPOLE

Inspector : K. Caban
Engineer :C. EMMA
Drawing No. : 731-30822-10 Rev. 2
Barcode # : 4598
Mfg. S/N : 30822-3

Coordinate System Setup

Spatial Alignment

Constructed using the Midplane of Upper (+Y) and Lower (-Y) Pole with the Midplane of the 2 Poles sets Y Zero and the Y+ Direction points towards the Tooling Balls/Terminal Strip.

Planar Alignment

Constructed using the Upstream (-Z) and Downstream (+Z) Ends of the poles. The Midplane from both ends sets Z Zero and +Z points towards TB 3/4 Side.

Coordinate Origins

X Origin - Symmetry Plane between side poles planes (planes parallel to the Coils)

Y Origin - Symmetry Plane between the Poles (Nominal Gap not specifed on print)

Z Origin - Symmetry plane between Up Stream and Down Stream end surfaces

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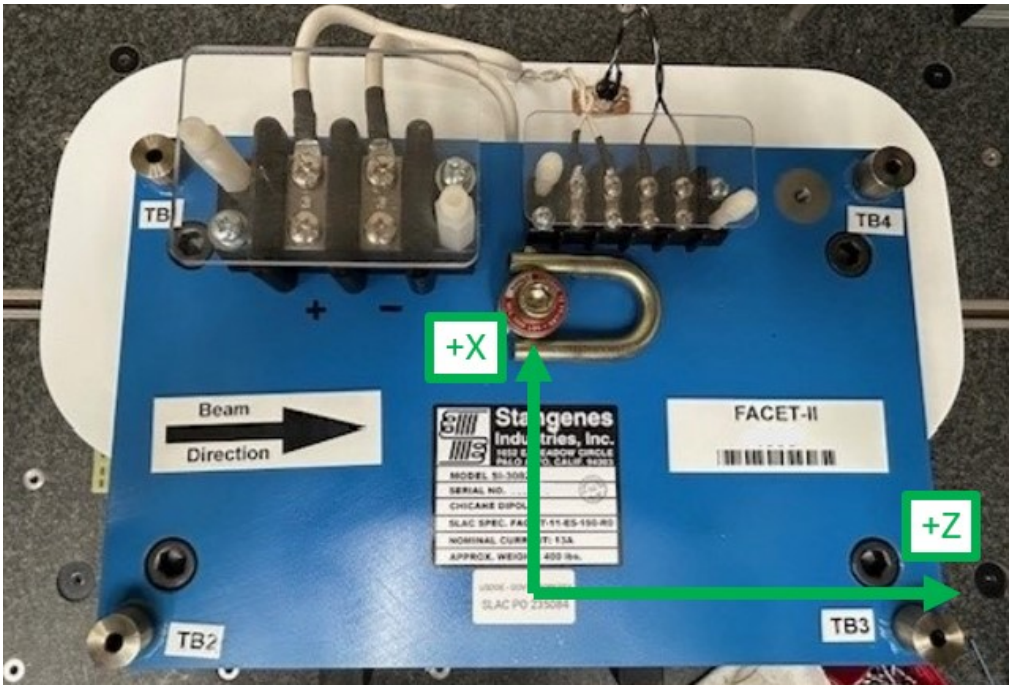
Tooling Ball Locations



Tooling Ball	X Coord.	Y Coord.	Z Coord.
TB 1	6.7287	6.1939	-5.9412
TB 2	-0.5038	6.1921	-5.9396
TB 3	-0.4944	6.1925	5.9414
TB 4	6.7347	6.1948	5.9415
TB A	6.7291	5.5064	-5.9398
TB B	-0.5027	5.5046	-5.9395
TB C	-0.4954	5.5050	5.9426
TB D	6.7339	5.5073	5.9417

Tooling Ball Locations (1-4) are 1 inch above Tooling Ball Plane
Tooling Ball Locations (A-D) are 5/16 inch above Tooling Ball Plane
Dimensions in Inch

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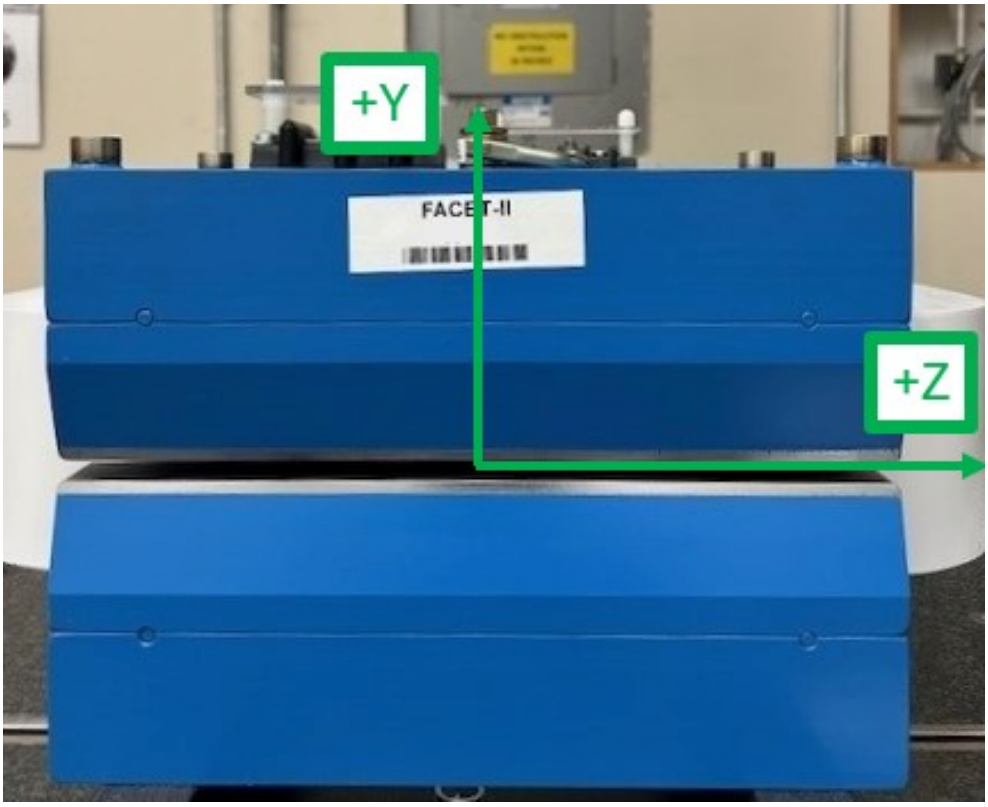
Pole Gap Measurements, Flatness & Parallelism



	-Y Pole Fltns	+Y Pole Fltns	Pole Parallel	Avg. Gap	Min. Gap	Max. Gap
POLE DATA	0.0018	0.0005	0.0014	0.3117	0.3106	0.3136

Dimensions in Inch

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