



# ***Jefferson Lab Alignment Group***

## Data Transmittal

**TO:** J. Hogan, B. Miller

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**FROM:** Kelly Tremblay

## **Checked:**

# : B1769

## DETAILS:

data: fiduc\hallb\scart\160927a

Below find the details for the surveyed solenoid cart. The coordinate system is based on Hall B 12 Gev (hall center) with a positive Z pointing downstream along the beamline, positive X to the beam left, positive Y is up vertically. The units are millimeters. The bolts are identified using bl for beam left, br for beam right, and ds for downstream. The planes are the support planes for the solenoid. Only the Y coordinates are shown for the planes. A sketch is shown at the end of this transmittal.

Ideal				Found				Deltas		
bolt	X[mm]	Y[mm]	Z[mm]	bolt	X[mm]	Y[mm]	Z[mm]	dX[mm]	dY[mm]	dZ[mm]
bl_1	512.0	-840.0	-2173.3	bl_1	511.7	-839.9	-2172.9	0.33	-0.05	-0.32
bl_2	403.0	-840.0	-2173.3	bl_2	403.1	-839.8	-2173.1	-0.07	-0.22	-0.18
bl_3	403.0	-895.0	-2173.3	bl_3	402.9	-895.0	-2172.9	0.11	0.03	-0.36
bl_4	403.0	-1047.0	-2173.3	bl_4	402.7	-1046.9	-2172.4	0.34	-0.06	-0.85
bl_5	512.0	-1047.0	-2173.3	bl_5	511.7	-1047.1	-2172.3	0.31	0.07	-0.99
br_1	-512.0	-840.0	-2173.3	br_1	-512.0	-840.0	-2174.2	-0.02	-0.01	0.94
br_2	-403.0	-840.0	-2173.3	br_2	-403.1	-840.2	-2174.1	0.12	0.20	0.84
br_3	-403.0	-895.0	-2173.3	br_3	-403.1	-895.2	-2173.9	0.15	0.19	0.68
br_4	-403.0	-1047.0	-2173.3	br_4	-403.2	-1046.9	-2173.5	0.20	-0.06	0.21
br_5	-512.0	-1047.0	-2173.3	br_5	-511.9	-1046.7	-2173.6	-0.05	-0.25	0.31
ds_1	53.9	-897.1	-370.3	us_1	54.4	-897.3	-370.5	-0.45	0.18	0.18
ds_2	-54.1	-897.1	-370.3	ds_2	-53.6	-897.1	-370.3	-0.43	-0.04	-0.02
ds_3	-54.1	-963.1	-370.3	ds_3	-53.8	-963.0	-370.0	-0.29	-0.10	-0.32
ds_4	53.9	-963.1	-370.3	ds_4	54.2	-963.2	-370.2	-0.24	0.13	-0.12
br_plane		-1080.0		br_plane		-1080.8			0.78	
bl_plane		-1080.0		bl_plane		-1080.9			0.86	
ds_plane		-1078.5		ds_plane		-1079.7			1.16	

