

Memo to: Dan Smith

From: Wayne Koska

Subject: Position of Collar Gage Packs for DC0304 with New Coils.

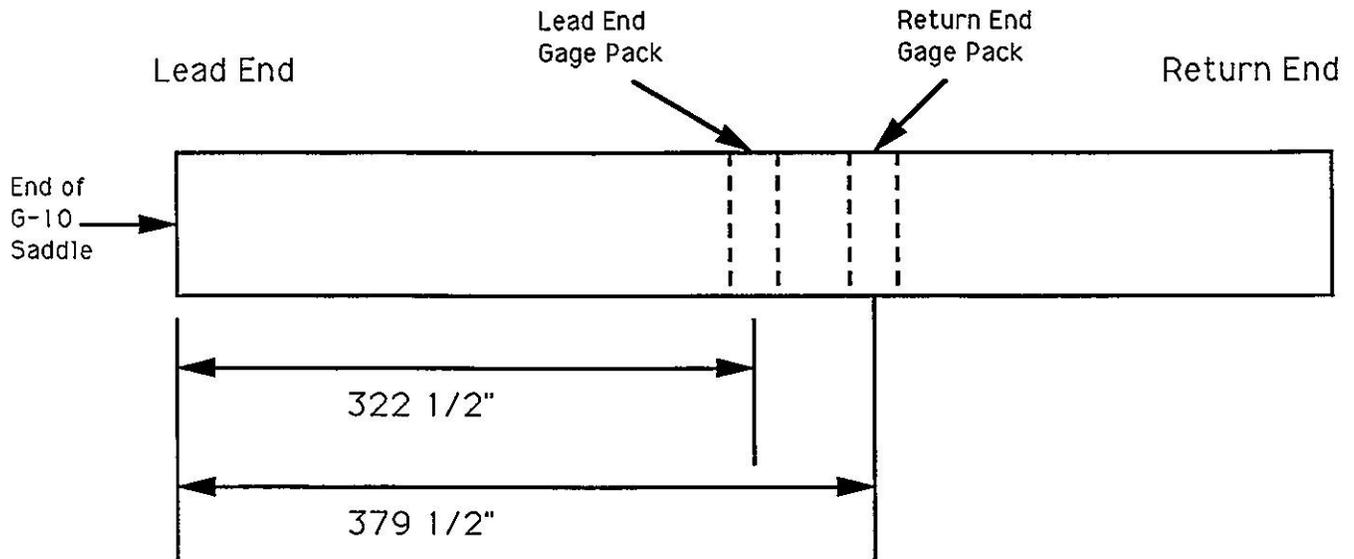
A previous note¹ had specified the gage pack locations for DC0304. However, during the collaring of this magnet in its initial configuration a short developed in one of its inner coils. DC0304 was reassembled with two new coils (17M-1013 and 17M-1014R) and this note specifies the position of the gage packs for this new configuration.

The Collar Gage Packs for DC0304 should be centered $322 \frac{1}{2} \pm 1 \frac{1}{2}$ and $379 \frac{1}{2} \pm 1 \frac{1}{2}$ inches from the outside edge of the lead end G-10 saddle (see figure 1). (Note that these are the same positions which had been determined for the initial configuration.) These two positions correspond to the best estimate of the minimum and maximum of the summed azimuthal size of the two inner coils and are therefore the specified positions for the gage packs². The measurement turn around positions for the two inner coils were 213-214. The minimum azimuthal size (6.5 mils) is at position 106 and the maximum azimuthal size (23.9 mils) is at position 125 (see figure 2). These positions correspond to the above stated locations, assuming the starting location of the measurements was the usual 6 inches from the lead end.

[1] W. Koska, Position of Collar Gage Packs for DC0304, TS-SSC 90-096
11-29-90

[2] W. Koska, Collar Gage Pack Positions for DC0303, TS-SSC 90-087
11-14-90

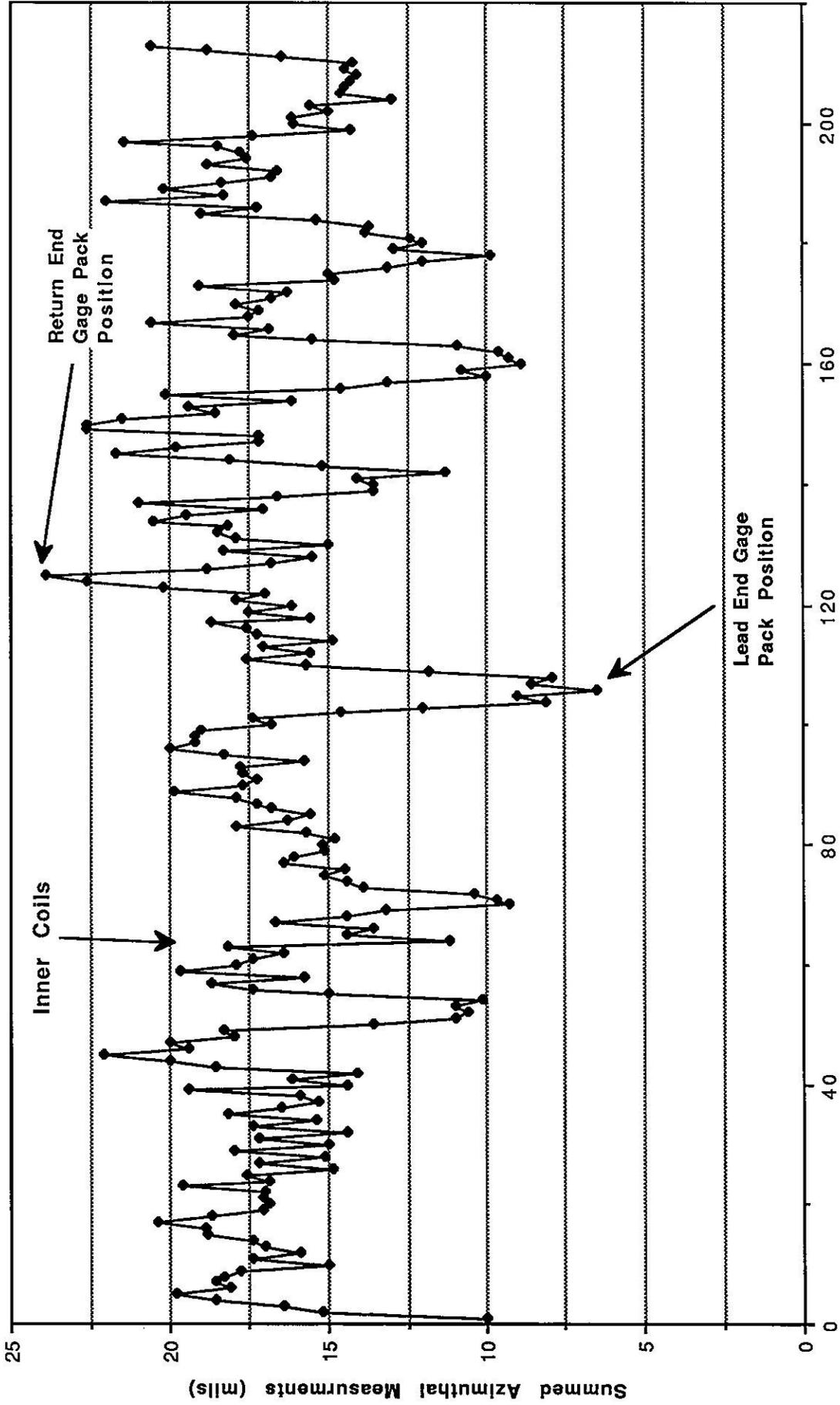
Wayne Koska
11-29-90



Specification for Gage Pack Locations in
DC0304

Figure 1

Summed Azimuthal Measurements vs. Longitudinal Position for
DC0304 (Coils 17M-1013 & 1014R)



Azimuthal Measurement Position (3''/position)

Figure 2