



DCA323 Reassembly Plan

DSA323 had a curious quench characteristics showing occasional quenches at the return end during down ramp. Anomaly in the end force behavior was found in the bullet gauge. Although, asymmetry adjustment in the flatness of the end did not change the situation. Magnet was unkeyed and every coils were inspected. The force to remove end clamp could have been a little too small. Since DSA323 and DSA324 are the twins except a few things in the assembly, we would like to reassemble it in the same way as DSA234 was assembled. DSA323B (reassembled DSA323) should have following features. If the behavior does not change, there must be something else behind the phenomena. If the down ramp quench does not happen, we can at least say the proper assembly can prevent the problem.

	DSA323	DSA323B	DSA324
inner cable	3-S-00021	3-S-00021	3-S-00021
outer cable	4-I-00025	4-I-00025	4-I-00025
inner pole shim	0	+5mil	+5mil
outer pole shim	0	-5mil	-5mil
end clamp	stainless	aluminum	aluminum
key method	square	intermediate	intermediate

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