

DCA317 Lead and Return End Kapton Shims for Final Installation

TS-SSC 91-252
S. Delchamps
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The DCA317 lead and return end clamp assemblies have both been pre-installed as part of tests, as part of the rebuild of this magnet following the turn-to-turn short in coil 15M-50-1007 and its subsequent repair [1,2].

Both clamps showed adequate pi-tape deflection and hydraulic installation pressure during the test installations. Both test installations were done with 8 mils (5 mil dry + 3 mil adhesive-backed) of kapton added to the inner surfaces of the insulators.

The DCA317 lead and return end clamps should therefore be installed with **5 mils dry + 3 mils adhesive-backed** kapton added to the insulator inner surfaces. All can and insulator surfaces should be cleaned and re-lubricated before installation is done. All normal **external diameter** measurements before and after installation should be performed on both end clamps of this magnet. A DR is being written so that the internal diameter measurements can be waived.

References

1. S. Delchamps, "Turn-to-Turn Short in DCA317", TS-SSC 91-207, October 25, 1991.
2. S. Delchamps, "DCA317 Coil 1007 Turn-to-Turn Short II", TS-SSC 91-233, December 3, 1991.