



TS-SSC 90-050

8/31/90

To: Reid Rihel
From: Jim Strait *Jim Strait*
Subject: DC0302 Collaring Shims and Spot Heaters

In addition to the normal ground insulation adhesive backed Kapton strips of the following thicknesses should be added to the pole faces of the inner coil and the outer coil. (The thickness listed here refers to the label written on the tape spool by Imre Gonczy. The actual thickness in the magnet is not precisely known at this point because of uncertainties in the thickness of the adhesive layer under the high stresses in the coil.)

Inner coil: 2 layers of 5 mil + 1 layer of 1 mil Kapton

Outer coil: 2 layers of 5 mil Kapton

The extra Kapton should be extended as far as possible into the end of the coil with the ends of the different Kapton layers staggered by about 3/16".

This memo supercedes the one from me on the same subject dated 8/22/90.

cc: Rodger Bossert
John Carson
Steve Delchamps
Wayne Koska
Gale Pewitt
Gary Sliwicki
Masayohsi Wake

To File:

For 2nd attempt, with replaced inner coil, use

inner: 2 layers of "5" mil kapton

outer: 1 layer of "5" mil, 1 layer of "3.5" mil

Per discussion with John Carson 9/17/90.

-Jim Strait

	bare	ball	flat	<u>IMRE</u>
DSO301 inner:	4.9	5.8	6.7	
	<u>4.9</u>	<u>5.8</u>	<u>6.7</u>	
	<u>9.8</u>	<u>11.6</u>	<u>13.4</u>	<u>12.2</u>

→ correct postures $\frac{+1.5}{11.3}$ $\frac{+1.5}{13.1}$ $\frac{+1.5}{14.9}$

	-0.8	-0.8	+0.8
DSO311 - DCO302	<u>10.5</u>	<u>12.3</u>	<u>14.1</u>

Desired 9.8 11.6 13.4

Choice - Desired -0.7 -0.7 -0.7

Alt	10.3	12.5	15.0
(Alt - Desired)	<u>-0.2</u>	<u>+0.2</u>	<u>+0.9</u>

	bare	ball	flat
DSO311 outer	4.9	5.8	6.7
	<u>0.5</u>	<u>0.9</u>	<u>1.6</u>
	<u>5.4</u>	<u>6.7</u>	<u>8.3</u>
			7.4

correct posture $\frac{+0.5}{5.9}$ $\frac{+0.5}{7.2}$ $\frac{+0.5}{8.8}$

	+3.7	+3.7	+3.7
DSO311 - DCO302	<u>9.6</u>	<u>10.9</u>	<u>12.5</u>

Desired 9.8 11.6 13.4

Choice - Desired +0.2 +0.5 +0.9

Alt Choice 6.7 8.5 10.4

Alt - Desired -2.9 -2.4 -2.1

ShimsT(12/7) "Desired"

10.6/8.7

(11.3/7.2) - 0.7 / +0.2

9.1 / 9.4

(11.3/7.3) - 0.7 / +0.5

8.9 / 9.8

(11.3/7.9) - 0.7 / +0.9

8.7 / 10.4

(11.3/4.1) - 0.7 / -2.9

11.0 / 5.1

(11.3/4.6) - 0.7 / -2.4

10.7 / 5.8

(11.3/4.5) - 0.7 / -2.1

10.6 / 6.2

} used for 2nd attempt.

(11.8/7.2) - 0.2 / +0.2

10.1 / 9.1

(12.2/7.5) + 0.2 / +0.5

10.6 / 9.3

(12.9/7.9) + 0.9 / +0.9

11.7 / 9.4

} used for first attempt

$3.0 = 2.7 = 1.8$

$3.8 = 3.7$

$1.0 = 0.9 = 0.5$

$adit = 2 \text{ m} / \text{comp } 1 \text{ m}$
 $adit = 1 \text{ m} / \text{comp } 0.6 \text{ m}$

$adit = 2 \text{ m}, \text{ comp } 1 \text{ m}$

$adit = 3.7$

$5.0 = 5.8 = 4.9 = 0.9$

$2.5 = 1.8 = 2.9 = 2.0$

spool name
(Ince's Rattler)

no anechoic
ball mike

mech mike
(flat anvil)

elect mike
(flat anvil)

built mike
elect.



$3.5 = 4.0$
w/ P.D.H

1.0

$5.0 = 6.4$

4.7 .2 from Kaption

2.5 -

Steve Delchamps 406-1463

\checkmark

$7-11 4 \quad 9.5$

$8-11 3 \quad 8-13 5 \quad 10.5$

$8-11 = 3$

Pack B