Disassembly Plan for DSA323 Part I

TS-SSC 91-118
Steve Delchamps
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This is a preliminary plan for DSA323 disassembly. The steps become less detailed toward the end, since we don't know in advance what we will find.

1) LAB2: Move DSA323 to IB3 from Lab 2.

2) JIM RIFE: Set the magnet up on metal table.

3) IMRE GONZY: Perform 4-wire R, L, Q measurements of magnet. Record data in notebook, and record serial number of meter(s) used, date, temperature, technician names, etc.

4) MIKE WINTERS:
- i - Measure Collar Strain Gages
- ii - Measure Shell Strain Gages
- iii - Measure End Clamp Strain Gages
- iv - Measure Bullet Strain Gages
  - a) As they are
  - b) LOOSEN the bullet bushing screws 1/4 turn, and measure
  - c) LOOSEN the bullet bushing screws 1/4 turn, and measure

Record all data in notebook, and record date, temperature, technician names, etc.

5) IMRE GONZY: Inform Steve Delchamps that the electrical data have been taken. STOP.

6) JIM RIFE: Orient the magnet so that quadrants 1 and 4 are pointing upward. Remove the shell half covering quadrants 1 and 4. Do not remove either end plate; rather, remove the skip welds connecting the end plates to the shell half being removed. If there are any questions, call Steve Delchamps. Record the date and time that this operation was completed in the notebook.

7) MIKE WINTERS: Measure all strain gages: Collar, Bullet, End Can, Shell. Record data in the notebook.

8) IMRE GONZY: Measure the following dimensions:

- i- end plate to end plate (outside)
- ii- end plate to end plate (inside)
- iii- end plate to filler pack (both ends)
- iv- filler pack length (both ends)
- v- filler pack to yoke pack (both ends)
- vi- yoked length of magnet

Record all data in the notebook.

Inform Steve Delchamps that the mechanical measurements have been made, and STOP.

9) JIM RIFE: Remove the yoke and filler packs, and end plates. Put them aside, CLEARLY LABELED including return end, left and right for each filler pack, etc. Record the date and time that this operation was completed. Inform Steve Delchamps that the collared coil is ready for inspection.

10) IMRE GONZY: Inspect return end clamp. In particular, look for "bowing" outward of the end cap, bad contact between the bullet ring and the end cap, etc.

11) IMRE GONZY: Remove the bullet ring and place in clean plastic bag, clearly labeled "DSA323 Bullet Gages." MAKE SURE THE COMPENSATING GAGES ARE WRAPPED IN THE SAME BAG.

12) IMRE GONZY: Remove the return end cap.

At this point, inform Steve Delchamps that end cap has been removed.

Make measurements of end clamp insulator, can, and coil package saddle surfaces as specified by Steve Delchamps.

13) IMRE GONZY: Remove return end can. LEAVE INSULATORS IN PLACE.
Record the pump pressure required for removal in the notebook.
Measure the can dimensions and record in notebook.
Record the time and date of these operations in the notebook.
Inform Steve Delchamps that the insulators are ready for inspection.

14) IMRE GONZY: Remove the insulators from the return end.

15) IMRE GONZY: Remove the ground wrap from the return end. LABEL EACH PIECE OF GROUND WRAP and put aside in a clearly labeled bag or box.

16) IMRE GONZY: Inform Steve Delchamps that the coil package end is ready for inspection.

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