

The Sweet VTA (SQM) Details

By Mike Watson

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From: "Mike Watson" <mike@s...>
Date: Tue Feb 26, 2002 11:54 am
Subject: Re: [Sweet-VTA] Re: New to the Board Re Sweet

Guy,

Sorry for the delay the file bounced due to attachments being too big.

I am not under any non-disclosure agreement. I am attaching information in Sweet's own hand on the construction of the coils. He sent this as a fax in 1992. He had discovered that bifilar windings were not necessary provided the magnet were conditioned in a "multipolar" layer-like fashion. What this means is that each conditioning impulse squeezes the field into the magnet so that if you looked at it from the side with this magnet viewing paper; in Sweet's words it looks like plywood, that is alternate sandwiched N-S poles as layers. This requires a dextrous impulsing of the magnet slowly compressing the field. When it is ready the surface flux density is only about 100 gauss, most of the field is interiorised into the body of the magnet. I found this very difficult. I never saw his conditioning machine but I assume it used flat pankcake coils.

About 18 months ago Graham Gunderson reported a sort of storage effect in magnets by conditioning them over a long period. The magnet suddenly released its stored energy and burnt out a lamp bulb he had as a load. It seems similar to the magnetic compression used by Sweet. I have not seen anything from Graham for some time. Perhaps he has got somewhere....

You notice Sweet's reference in the attachment to demonstrating video-wise this effect. This refers to the famous (infamous?) use of an old colour TV set. The method is at the end of the '87 Bearden video. Sweet holds a magnet against the tube face. The shadow mask becomes magnetised of course. The TV displays the field in colour but the picture follows the H field not the B field, so a bar magnet gives a figure of eight image. Sweet attributes a lot to this image, and this is what makes me wonder about him, he never once thought of it as a useless artefact of the TV tube. When I tried it I could not get the same image and told him so. He was perplexed. Shortly after I realised that he might have been using a trinitron tube whereas mine was the triple dot sort so I looked for a scrap TV with a trinitron tube and sure enough I got the same picture as Sweet. To me it looks pretty but means nothing.

Right or wrong the VTA was built on what his TV tube showed him. So you hear of Sweet talking about the neutral point between two opposite magnetic poles, this is what the trinitron shows, fortuitously it shows more or less the H component. Sweet was scientifically pretty literate and spend years designing and testing power transformers so he knew about these things. His whole approach was to switch off all this knowledge and work as though the magnetic charge really existed.

I have rambled on a bit, but the attachments might be useful.

Mike Watson

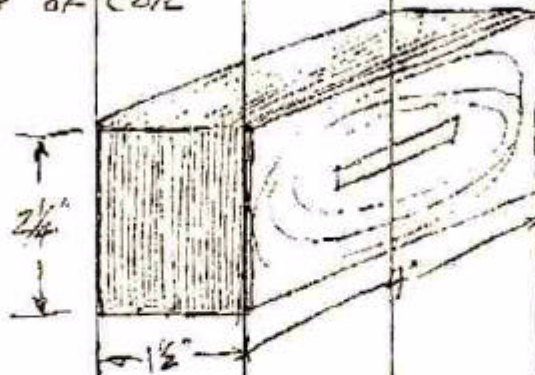
10/22/92

1 B) EXCITATION COILS (2 REQ'D)

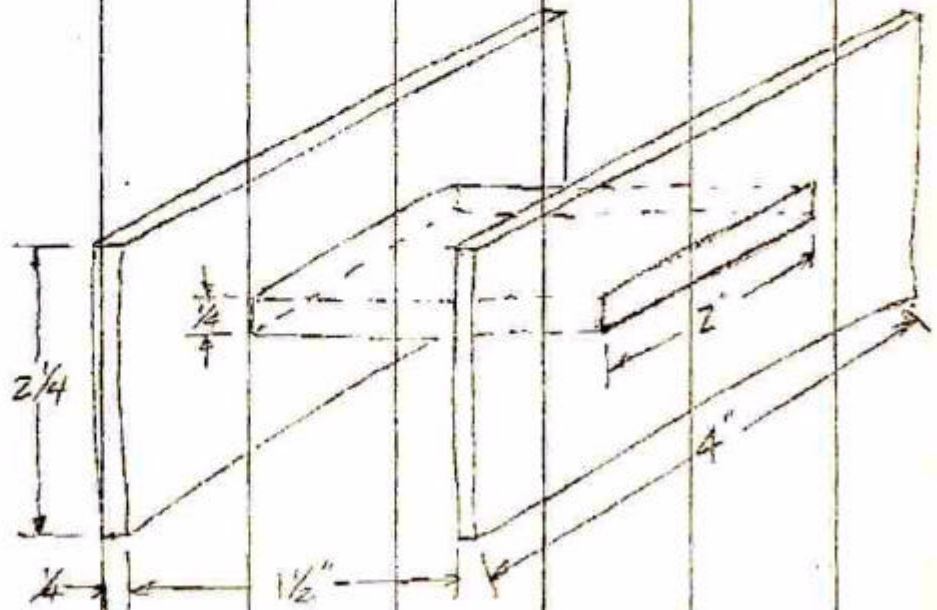
2 USE # 28 GAUGE WIRE ($d = 0.020"$) (BONDAX WIRE
3 APPROX. 50 LAYERS (1" THICK) USE ACETONE TO
4 APPROX. 3750 TURNS CONGEAL COATINGS

5 APPROX. TOTAL LENGTH OF WIRE 2650 FT (~3 lbs)

6 FINAL SIZE OF COIL



7
8
9
10
11
12
13
14 MANDREL (BOBBIN)



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COILS DESIGNS

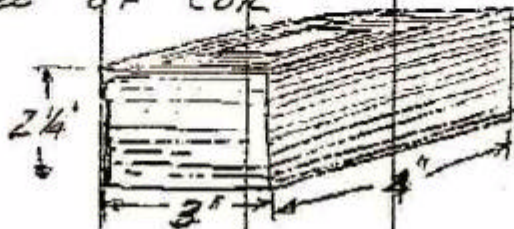
A) POWER COIL

USE #19 GAUGE WIRE ($d = 0.040"$)

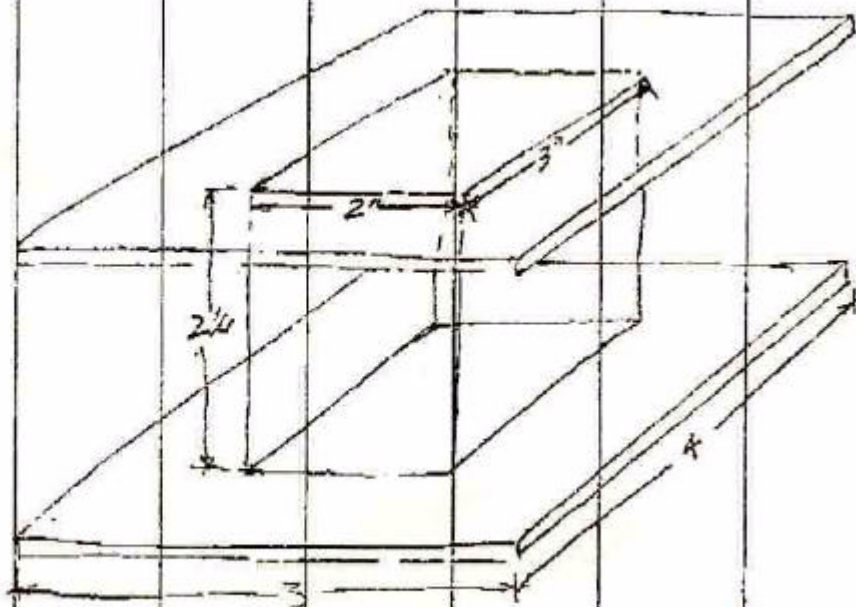
MAIN COIL TO HAVE APPROX 250 TURNS = 5 LAYERS

SECONDARY COIL TO HAVE APPROX 50 TURNS = 1 LAYER

FINAL SIZE OF COIL



MANDREL (BOBINS):



1
BIF COILS ARE

NO LONGER NEEDED.

BY MULTIPOLAR

CONDITIONING OF
THE MAGNETS

CANCELLING OF THE
FIELD OCCURS IN

JAYEK-LIKE FASHION IN

ALTERNATING MODE

2

THIS MAY BE
DEMONSTRATED

VIDEO-WISE WITH

COILS AND MAGNETS

SET UP IN A SPECIAL

JIG - FIELD NO FIELD

LAYER-LIKE ALTERNATION

AT $1/10$ FREQ.

POWER

MAKE LEADS # 16 STRANDED
ALL 40 CM LONG
ALL STARTS WHITE
ALL FINISHES RED
TEMPORARILY SECURE LEADS WITH
6 WAXED CORD.

EXCITATION

ALL LEADS # 20 STRANDED
ALL STARTS WHITE ALL FINISH
RED. TEMPORARILY WITH CORD
OR TAPE.