All the Electrons that are fit to flow.



The Official Newsletter of the DVHRC Vol. 14, No. 9, January, 2006

Tech Talks Return to the DVHRC

December Holiday Party and Election Results

Reported by Dave Snellman

The regular monthly meeting of the DVHRC was held on December 13thth at the Telford Community Center. We dispensed with the usual business portion of the meeting to allow members to partake in the annual holiday party feast. Lewie Newhard and Ally, this year's food committee, did a yeoman's job with the food. Club members furnished drinks and deserts. Members made short work of the food. Everyone seemed to enjoy the evening's festivities.

As announced in the December Oscillator, we had the annual election for board members who will serve for the year 2006. Ballots were distributed to all members in good standing.

From the field of six nominees chosen last month, the following were elected to serve on the board for 2006:



Dave Abramson - President. Mike Koste - Vice President Dave Snellman - Secretary/Treasurer Lewie Newhard - Board member Dan Schwartzman - Board member

Mike Koste, Lewie Newhard, and Dan Schwartzman will

Inside the Oscillator... Meeting notes......1 Meeting pictures......2 Christmas Photos.....4 Club Store.....5 Our Advertisers......6



Next Meeting Program

Series Filament Circuits with Lewie and Steve Auction :

Telford Community Center January 10th, 7:30pm



Newsletter of the
Delaware Valley Historic Radio Club
P.O. Box 5053
New Britain, PA 18901
www.dvhrc.org

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will comprise a newly formed program committee to provide activities for our monthly meetings.

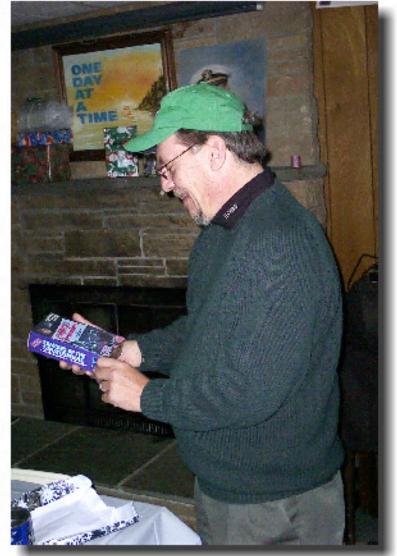
The holiday festivities also included a gift exchange. Anyone who brought a gift was issued a ticket. As the numbers were called, the members came forward and selected a gift from the table. While no one went home with a "Spartan Bluebird," there were some nice items that found new homes.

There was no auction due to the holiday festivities.

Next month, January, is membership month.

Remember your annual dues are due at that time. Dues are \$20.00, payable to DVHRC. We do not pro-rate memberships.

Your dues provide the club with the funds needed to publish the "Oscillator"



They also pay for the rental of the meeting hall as well as our insurance policy. For those already paid, you should see "2006" on your mailing label. If not, you probably owe for 2006. For those who send their dues in the mail it may take an extra month to update the mailing list.

January's meeting will be held on January 10th, 2006 at the Telford Center, at 7:30 PM.



Series Filament Circuits by Lewie Newhard Steve Holota One in a continuing series of service articles

Too often, small, yet important things are overlooked when servicing non-transformered table model radios. Take filament voltage for example.

In order for a vacuum tube to operate within the manufacturer's parameters, the heat must be operating at or near factory spec's. Too little heat can negatively affect conductance in a manner that can hinder radio sensitivity, provide poor audio or cause oscillator trouble. Changes in filament resistance due to age, shock or use can alter the voltage drop across the tube filament and render the drops across other tubes heaters uneven.

A tube checker will often show these "bad" tubes to be "ok" but the tube tester supplies "unlimited" current at a specific heater voltage. Only an ammeter in series with the filament can determine if it draws too much or too little current at the manufacturer's voltage. The voltage and current specs can be found in a tube manual and are universal for a given unit.

Let's not forget that a filam ent with a higher than normal internal resistance causes a shift in voltage drops across the other tubes. This can be shown as a see-saw effect between set tubes.

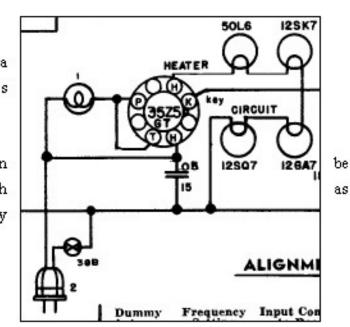
If the internal resistance of the heater is too low as in a short, the drop is too low, sending the rest of the voltage to the other tubes. A simple check across filaments with a voltmeter can determine f the string is "out of whack".

In a typical 150m a filament string, there is only one current path, and many tubes were designed as sets of tubes. And older radios were often engineered to operate at 110 v AC. The Beitman's drawing shown is a Crosley 52TE filament circuit from the era.

It can be suitable to replace a 35C5 with a 50C5, or a 35L6 with a 50L6 to absorb the "extra" 15 volts when operating at today's 125v AC line supply.

Even trickier can be a 1.5 v filament operating at 1.25v which can hard to spot when using an analog meter. Some tube testers such the Hickock 700 series can accurately monitor heater current by utilizing the supplied jacks.

OHMS law can then be applied to achieve correct values.



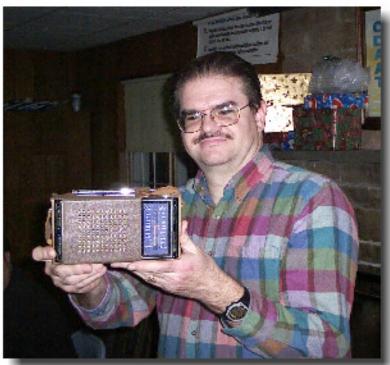


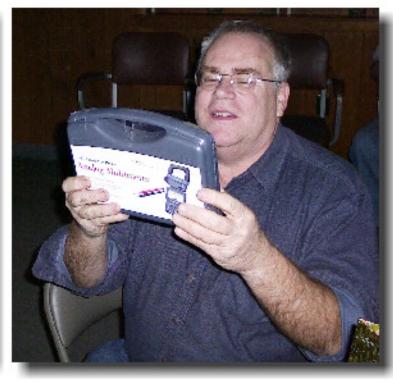
Improper dial lamp replacement can also be problematic. Lastly check for a proper line cord. A resistor cord must be the right one for the unit. It can be an idea to substitute a resistor of proper wattage and a regular cord since resistor cords are not on the list of many restorers' parts, and can damage a unit if a "lay" person replaces it.

Our thanks to Lewie and Steve for the first of their series of service articles. If you would like to sub mit a service article like this, just email it to dtate @att.net

More Christmas Party Photos













DVHRC RADIO STORE

					1
Marie Contract Contra		LIST PRICE		CLUB MEMBER PRICE	
CAPACITY	VOLTAGE	QTY/25	EACH	QTY/25	EACH
100					(0)
.001 6	30v	\$7.20	.35	\$6.00	.28
.0047		\$7.50	.35	\$6.25	.29
.0068		\$7.60	.36	\$6.35	.30
.01		\$7.80	.36	\$6.50	.31
.022		\$8.30	.37	\$7.00	.33
.033		\$8.60	.42	\$7.25	.35
.047		\$9.00	.43	\$7.50	.36
.1		\$9.60	.48	\$8.00	.48
0.22		\$18.00	.86	\$15.00	.72
0.47		\$24.00	\$1.06	\$20.00	.96
1.0		\$31.20	\$1.50	\$26.00	\$1.25

ELECTROLYTICS:

		QTY/10	EACH	QTY/10	EACH
10	160v	\$6.60	.70	\$5.50	.64
22	160v	\$7.70	.90	\$6.40	.75
33	160v	\$10.10	\$1.30	\$8.40	\$1.01
47	160v	\$11.50	\$1.40	\$9.60	\$1.16
10	450v	\$9.00	\$1.10	\$7.50	\$1.10
22	450v	\$13.30	\$1.45	\$11.20	\$1.20
47	450v	\$21.60	\$2.50	\$18.00	\$2.10
100	450v	\$34.50	\$3.20	\$28.50	\$3.85

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