

# WARCI NEWS



Volume 23 July 2020 Issue 4



#### 1937 DeWALD Model 618

Part 3

# **Next WARCI Meet:**

# June and July meets Canceled

WARCI is considering adding an Online "Zoom" video conference to supplement in-person meets during the COVID-19 pandemic. If interested, please voice your support or suggestions to Nick at: president@warci.org

Thanks!

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#### 2020 CALENDAR OF EVENTS

January 19<sup>th</sup> (West Allis)

March 15<sup>th</sup> (West Allis)

May 3<sup>rd</sup> (CANCELLED)

June 7<sup>th</sup> (CANCELLED)

July 12<sup>th</sup> (CANCELLED)

August 23<sup>rd</sup> (Madison)

September 13<sup>th</sup> (New Berlin)

November 8<sup>th</sup> (Milwaukee)

#### **Swap Meet Locations and Times:**

New Berlin (8-11AM): New Berlin Ale House 16000 W Cleveland Ave, New Berlin, WI 53151 Milwaukee (8-11AM): The Terminal 5917 S Howell Ave, Milwaukee, WI 53207 Madison(8:30-11:30AM): 3610 Lexington Ave, Madison, WI 53714 West Allis (8-11AM): Hampton Inn and Suites 8201 W Greenfield Ave, West Allis, WI 53214

#### **About WARCI**

The Wisconsin Antique Radio Club, Inc. exists to preserve the history and enhance the knowledge of radio, television and other related disciplines, promote fellowship and the exchange of ideas and experience between antique radio collectors. We have a special interest in the history of radio in our home state of Wisconsin: Wisconsin radio companies and their radios, Wisconsin radio stations, etc. Our members' interests include radio (encompassing transmitters, earphones, speakers, antennas, tubes, batteries, components, etc as well as receivers), television, audio, and antique phonographs.

Individual memberships are \$15 for the calendar year (January – December), including a subscription to the WARCI News.

WARCI holds six swap meets in the Milwaukee-area each year, in January, March, June, July, September and November. The seller's fee at Swap Meets is \$7.00 for members, \$10 for non-members. Additional swap meets in May and August are hosted by the Madison chapter of WARCI and follow the same schedule. Swap meet times are 8:00AM - 11:00AM for Milwaukee-area meets, and 8:30AM - 11:30 AM for Madison-area meets. Doors open at the posted time for set-up. Check the WARCI website for the most up-to-date meet schedule.

WARCI publishes the WARCI News five times per year (January, March, May, July, and September) in PDF or hard copy. The newsletter reports on club activities, includes articles contributed by members, photos from club swap meets, news and events of neighboring clubs including ARCI, NARC, and MARC, and members' classified ads.

The club operates the WARCI website at <a href="www.warci.org">www.warci.org</a>. The website features information on club activities and a growing compilation of information about Wisconsin radio companies and their radios, including photographs and WARCI News articles about the companies. The intent is to gradually develop an overall history of radio in Wisconsin, its companies, broadcasting stations, etc. Back issues of the WARCI News and the Battery Set Compendium are also available for download from the website. WARCI is also on Facebook.

Contact one of the WARCI Board Members below for more information about WARCI.

#### WARCI OFFICERS AND BOARD (2020)

President -- Nicholas Tillich, president@warci.org, (262)271-1564

Vice President -- Terry Hanney, earlyradiosets@gmail.com, (414)429-4405

Secretary -- Mike Sajdowitz, msajdowitz1@gmail.com

Treasurer - Ed Kozak, ejkozak@elknet.net

Board Members -- Jim Menning, Dale Boyce, Mike Krawczyk

WARCI News Editor - Mike Sadjowitz, msajdowitz1@gmail.com

Webmaster -- Nicholas Tillich, webmaster@warci.org

# WARCI NEWS AND DOINGS

#### **WARCI News**

This newsletter is the official publication of the Wisconsin Antique Radio Club, Inc. It is published five times per year, in January, March, May, July and September. In November a post card announcing the up coming years swap dates will be mailed. The WARCI News is free to all paid-up club members.

The entire contents of this publication are copyright ©2020 Wisconsin Antique Radio Club, Inc. unless specifically marked otherwise. Generally, all articles in the WARCI News may be reprinted, provided specific permission is first obtained from the Editor (and copyright holder, if not WARCI) and full credit is given. Articles or material for the newsletter are most welcome and should be sent to msajdowitz1@gmail.com or W220 N2716 Maplewood Ln, Waukesha, Wi 53186. Include your name, address, phone, and email. PDF format (e.g. MS Word) by email is preferred. JPEG for images is preferred. Please contact Mike Sajdowitz for assistance.

Classified ads up to ½ page are free to WARCI members. The cut-off date for all newsletter material is about the 15th of the month preceding publication of the next news -letter (e.g. December 15 for the January issue.)

"Do to the coronavirus, the WARCI is monitoring the situation very closely and will keep the club informed (via email, post card, and updates to WARCI.org) if any changes to our meet schedule should be necessary. Thank you for your understanding."

#### **Notice of WARCI Board Meetings**

WARCI holds Board Meetings after all of it's Milwaukee –area radio meets. The Board Meetings generally start around 11AM and all current WARCI members are encouraged to attend. This is your opportunity to see how the club is run and provide your valuable input. In addition, WARCI's Annual Business Meeting is held every year in November, concurrent with our annual elections.

We look forward to seeing you!





Stream our Podcast for on demand listening!

https://nostalgiaradiotime.podomatic.com/

NOSTALGIA RADIO TIME IS ON THE AIR!

Legendary singers, big bands, and personalities from the 1930's to the 50's and beyond, along with Classic Old Time Radio Show Broadcasts

NostalgiaRadioTime@yahoo.com Look for us on Facebook & Twitter

# **News from Neighboring Clubs**

#### **IARCHS**

Iowa Antique Radio Club Auction

www.radio-collector.com

The club also has decided not to schedule the auction in calendar year 2020 but looking forward to the 2021 auction instead.

#### **NARC**

# Northland Antique Radio Club

RADIO DAZE 2020

**NARC Swap Meet** 

due to the coronavirus has been

#### **Canceled**

www.northlandantiqueradio club.com

#### **KARSFEST 2020**

Has been Canceled

https://www.w9az.com/karsfest

#### **Ozaukee Radio Club**

Cedarburg, WI
The ORC Fall Swapfest
Check the flyer on page 21

www.ozaukeeradioclub.org

#### **SWAPFEST 20'**

South Milwaukee Amateur Radio Club, Inc.

**Canceled** 

https://southmilwaukeearc.org/

#### **ARCI**

Antique Radio Club of Illinois

Due to the COVID-19 VIRUS

Radiofest 2020 has been

**CANCELED** 

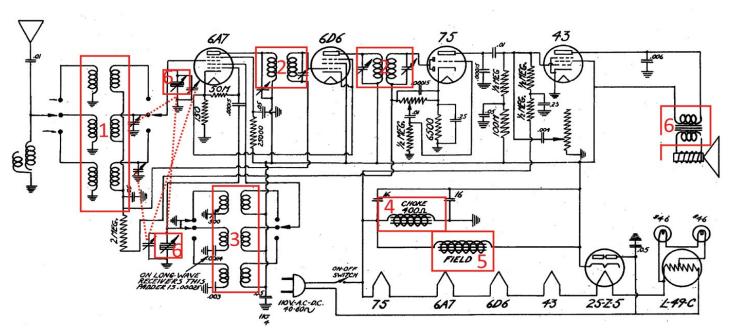
http://www.antiqueradios.org



DeWALD Model 618 By J.W. Koebel

# Part 3 IN-DEPTH INTAKE CHECKS

Before getting started with the labor of replacing components, it's useful to check the status of all the coils and transformers. These parts are all called out on the **schematic**.

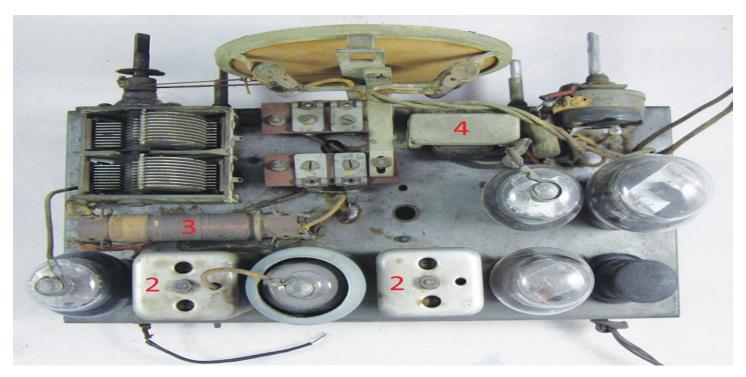


Components as marked: (1) Antenna coils; (2) IF transformers; (3) oscillator coils; (4) filter choke; (5) field coil; and (6) output transformer.

After pulling the chassis and speaker from the cabinet, the first step is to remove the tubes.

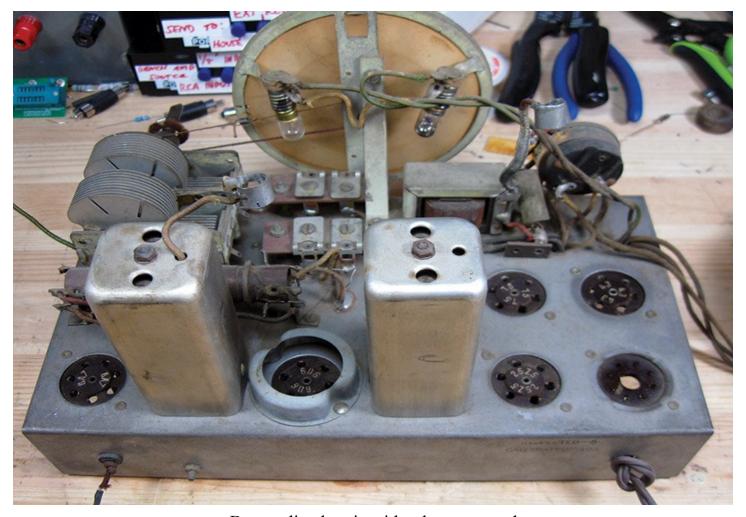


Back side of the radio showing components labeled



Top Down view showing other components labeled

Make a note of which tube goes in which socket since they're not interchangeable. Some radios (like the one I'm using here) have the tube number stamped into the sockets — if that's the case, you're lucky!



Bare radio chassis with tubes removed

If any of the tubes have a top cap with a wire connection, be careful when removing it — sometimes the top caps of the tubes have come loose with age and can be pulled off which often ruins the tube.

With the tubes removed, now you can access the various connections a bit more easily. I like to start with the radio's front end with the antenna coils, and move through the radio to the output transformer. To check their condition, simply use a multimeter set to measure resistance (ohms) and check for continuity.

An infinite resistance reading means there's a broken wire, but good readings might range from a few ohms on the low end to a few dozen on the high end.



One good trick for measuring the primary of the antenna coils is to take advantage of the radio's built-in wiring. Since the antenna connects to all of these coils and all of these coils connect to ground after the band switch, connect the multimeter between the antenna terminal on the back and ground, and flip through the ranges. In this case, all good! I measured the secondaries of the antenna coils as well, and they also checked out. On to the oscillator coils!

Measuring the primaries of the antenna coils

This radio has three oscillator coils total: one on its own coil form beneath the chassis, and two wound on the same coil form and mounted up next to the variable capacitor on the top.



Measuring the lower oscillator coil



The other two oscillator coils sharing a common coil form on top of the chassis

These are each four-terminal devices, so they're easy to check out. There will be two sets of lugs with continuity to each other, but not to the lugs from the opposite winding. In this case, all oscillator windings tested good too.

Next up are the IF transformers. These cans are mounted to the chassis, and each has two windings: a primary and a secondary. It's fairly straightforward to trace out the wiring and find two pairs which have continuity.

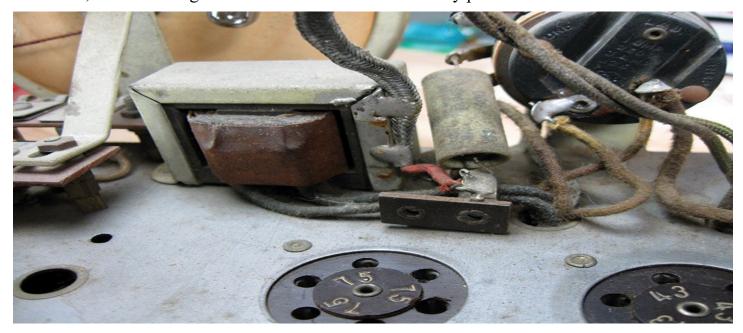
On the first IF transformer, the secondary has one connection out the top to the grid cap of the 6D6 IF amplifier tube. On the second IF transformer, they're both on the bottom. After checking continuity on both, the IF transformers are also good.

Some more advanced radios might have tapped IF transformers or other components hidden inside the cans, but that's not something you're likely to find on an entry-level radio like this one.



Testing the secondary of the first IF transformer (other multimeter probe to the top connection)

Moving on, since this is a transformerless AC/DC radio, the only items left to check are the filter choke, the output transformer, and the field coil. The filter choke sits on top of the chassis, with the leads heading towards the power supply section. There's only one winding, and the approximate DC resistance is given on the **schematic**. These tended to have a  $\pm 20\%$  tolerance, so the reading of 345 ohms isn't indicative of any problems.



The filter choke



Measuring the filter choke from the bottom, showing 345 ohms.

The other two components — the field coil and the output transformer — are mounted to the speaker itself.

Good permanent magnets which could be used for speakers weren't really found in consumer radios until after WW2, so this radio used an electromagnet to set up the magnetic field and energize the speaker known as the field coil. It's also used in the power supply circuit as a choke, and measuring across the field coil shows 2,309 ohms.



Checking the speaker field coil resistance; 2,309 ohms

There's no reading given on the **schematic**, but generally 1.5-3K ohms is reasonable for a 1930's radio like this one. Finally, the output transformer is also mounted to the top, with the two sharing a common lug. The primary came in at 472 ohms DC resistance, which is pretty typical. The secondary is connected to the speaker voice coil and showed 2.1 ohms.

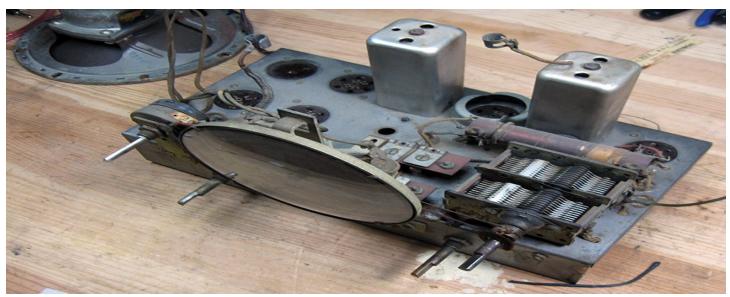
You might have noticed I didn't test the tubes. If you have access to a tube tester, it's fairly easy to check them out. Unless you plan to repair a lot of tube radios, a tube tester isn't a necessary investment, and you can check their function later with a few simple tests after the first power-up. If you're working on a series-string radio like this one, though, it can be useful to check out their heaters to make sure the radio will at least light up when you power it on for the first time after service.

Tube pinout diagrams can be easily found by searching for the tube's letters and the word "tube" on the Internet, like "6d6 tube." This radio uses all "old style" tubes, though, and on all old style tubes the two pins which are larger than the others and are adjacent to each other are always the heaters. If there's a measurement between those two pins, the tube heater is intact, and the heater string will light up when powered on.

#### CONCLUSION AND NEXT STEPS

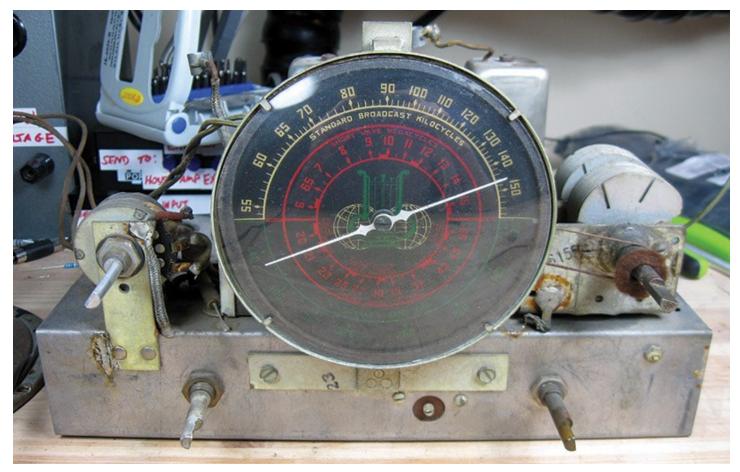
These checks took me about an hour to complete, although if you're starting out on one of your first tube radios to repair, it could take quite a bit longer.

At the end of all my checks, it turns out this radio is in great shape! All the antenna, oscillator, and IF coils tested good, as did the output transformer, field coil, and filter choke. Not too bad at all!



Top of Chassis-ready for work!

If some of those parts don't check out on your radio, not to worry. While you can't pick these parts up in your local RadioShack anymore, there are a lot of options for finding an old stock or a new functional replacement. Consult the Antique Radio Forum for some crowd sourced help if you run into trouble or need a part because someone will almost certainly have one.



What a neat looking multicolored dial face on this DeWald!

Coming up, I'll be completing the under-chassis component replacement as needed, powering up for the first time to see what happens, and correcting any issues that crop up followed by an alignment. Go find yourself a vintage radio and play along!

Special thanks to Antique Radio Forum members Art Hoch, bobwilson1977, chaz, chrisc, db gain, Dutch Rabbit, Flinx, Gary Tayman, Indiana Radios, mrlee, phinegan, Robert L, sgrath92, simplex1040, TexMax, Tim Tress, transister and Zbing who contributed photos and thoughts while brainstorming for red flags you might encounter while exploring a "new" radio for the first time, and to my dad Joe who supplied the DeWald radio used in this project from his collection.

Article is from Nuts and Volts Magazine May 2015

Remember that classified ads up to about 1/4 page are free to WARCI members

The cut-off date is the 15th of the month prior to the publication. Example (The July 2017 Issue means articles have to be to me by 15 June). Send ads by email or mail

To: Mike Sajdowitz, WARCI Editor, W220 N2716 Maplewood Ln, Waukesha, WI 53186 or msajdowitz1@gmail.com

Wanted: All things Hallicrafters! Receivers, transmitters, accessories, television sets, test equipment, signs, books, etc. Also silver-Marshall (1933-34) and Echophone.

Stan Broome, 108 East Main Street, Sun Prairie, WI 53590 1-608-658-6107.

Training - Michael Lewis 6070 County Rd. D, or Oregon, WI 53575 Phone:608-835-7193, email: deepheart@att.net

I have over 30 years experience in electronically restoring antique radios(I don't restore radio cabinets). For most of this time I've also taught others how to do radio restoration. I can be hired for 4 or 8 hour blocks of bench time. You will have access to DMM's, digital audio and RF generators, capacitor and indoor analyzers, power supplies, and much other test equipment. I stock 1/4, 1/2, 1, 2, 5, and 10w resistors. Capacitor stock includes 75 values of mylars, micas, and ceramics; electronics from 25 WVDC to 450 WVDC. Tubes are available to my students as well as technical literature including a Ryder, Beltman, and Gernsback manuals, factory manuals, and Sam's Photofacts. Whether you never soldered before, or regularly restore radios & are stuck on a "tough dog" chances are I can help.

WANTED: Parts: Carl Zimm, beampowered-tetrode@yahoo.com

- Volume brass bezel for Zenith 701, 8" speaker for Philco 20, Crosley 59 chassis for Oracle, AK 80 or 90 chassis.
- For sale; McMurdo- Silver amp for Masterpiece

WANTED: Parts: Tom Fickau@cs.com

- -Aluminum Loop Antenna for vintage Scott radio Model 800-B6
- -Looking to buy a Scott Model 16
- -Anyone in Milwaukee or SE Wisconsin willing to mentor a new Scott enthusiast?

Call: Tom Fickau (414) 801-0652

#### WANTED: by Dale Boyce, Email: radioman@wi.rr.com, 414 840-4146

- 1. Briggs & Stratton Corporation, Milwaukee, WI (BASCO) radio equipment from 1922- 1937. Catalogs, complete or incomplete crystal radios, tube type radios, radio frequency transformers, earphones, tube sockets, crystal detectors, vernier rheostats, fixed resistors, multi-plate variable condensers, fixed capacitors, literature, advertising, parts boxes, battery eliminators (radio power units types "A", "B", "A+B"), push button tuners, promotional items etc. Please check your boxes of radio parts and your literature files. Also wanted: radios such as Globe Electric, Monroe McKillip and others which utilize BASCO radio parts.
- 2. 1920s tube type radios, amplifiers and radio parts boxes, advertising, promotional items, etc. made by Allen Bradley Company, Milwaukee, Wisconsin.
- 3. 1920s Crystal radios, tube-type radios, advertising and promotional items made by Sunlight Radio, Milwaukee, Wisconsin.
- 4. 1920s Julius Andrae and Sons Co (JASCO) Crystal radios, radio catalogs, radio equipment and promotional items made by Andrae Electric, Milwaukee, Wisconsin.
- 5. 1920s horn and cone type radio speakers made by Milwaukee companies including G&G Radio company, GEMCO, Granolite Art Products, Yahr-Lange, and others.
- 6. Individual and boxed sets of 1920s Brightson Blue radio tubes distributed by Yahr-Lange, Milwaukee, Wisconsin.

# WANTED: Parts and Literature: Glenn Trischan 414 357-7024, gnets142@att.net, P.O. Box 240022, Milwaukee, Wi 53224

- Cylindrical Federal#35 RF transformer or similar,3/8"L x 1 1/8" diameter, to studs/nuts on each end.
- Centralab catalogs from 1960s 1980s. Central Radio Laboratories/Centralab parts 1920s 1980s.
- Catalogs/literature/photos of any age from Marsh Radio/Electronics in Milwaukee.
- JMP Products or literature including Submariner and wave meter.
- Set of concentric tuning knobs for Crosley model 725 or clear photo of same.
- Set of Shortwave &, Television Laboratories, Boston, 4 pin coil set (red, blue/black, brown, green) or individual coils.
- Always seeking Wisconsin made radios, especially Globel Electric, Advanced Electric, and Fidelity/New England Mills.

#### **Advertise with WARCI**

Adds up to 1/4 page may be placed in the WARCI news free of charge for WARCI members

Ad's larger then a quarter page are available at the rates outlined below:

1/4 Page free (members only)

1/2 page \$15/issue/\$60/year (5 Issues)

Full Page \$25/Issue, \$110/year (5 Issues)



#### Dennis Schrank

Collector of Old Microphones and Radios

### **Buy Sell Trade**

(414) 744-3374 radio1938@gmail.com



#### Electric Guru Parts House

We sell and buy vacuum tubes, electronic test equipment and radio equipment

David Whitham PO Box 212

Phone: 262-833-7999

Web: www.electricgurupartshouse.com Franksville, WI 53126 Email: info@electricgurupartshouse.com





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414 840-8812

BY MAIL AT:

PO Box 140 Milwaukee WI 53201

E MAIL US AT:

prnovelty1@earthlink.net

SHIP TO US AT:

170 South Second St.

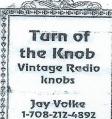
126 Iwaukee WI 53204

Visit us at our new showroom, coming soon to West Allis!

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www.prnovelty.com



CASH For 1920's Horn & Cone Speakers JAY VOLKE 1-708-212-4892 iavsradios@aol.com

Collector of: Vintage Radios • Tubes Advertising



**Rick Gantner** 

Phone: 1-262-284-3337 Email Paparick146@yahoo.com

Wanted By: Phillip Drexler,

Phone: 1-651-[redacted], Email: [redacted].com

Klitzen model

125 detector amplifier.

Please see page 170 of vol. 2 of

"Radio Manufacturers of the 1920's"

by A. Douglas for a picture. Two type R-11

(five to one ratio) All American open frame Audio

transformers.



Member Dave Stout from the Milwaukee area has the following for sale: 1936 Zenith 6-S-52 Console Radio, GREAT condition, plays. \$175 1941 Philco 41-265 Console, plant stain on top, refurbished in 1993. \$60 If you're interested in either of these radios, call Dave at (262)305-9741.





# WARCI SERVICES

This page contains classified ads from recent articles of WARCI News, the club newsletter.

Classified ads are free up to 1/4 page for WARCI members. Classifieds will also be posted online on a regular basis. The cut-off date for all newsletter material is the first of the month preceding publication of the next newsletter (e.g. April 1st for the May issue). Ads may be emailed to: <a href="www.webmaster@warci.org">webmaster@warci.org</a>.

#### **WARCI Radio Services**

The following is a list of WARCI members willing to provide repair/restoration services, advice, or research.

WISCONSIN RADIO RAPAIR SERVICES				
NAME	LOCATION (WI)	EMAIL	TELEPHOE	SERVICE(s) AVILABLE
Forrest Anderson all ages, old TV Rep	Oconomowoc air, Some cabinet rest	jmander@wi.rr.com toration, over 40yrs experience	920 474-3643	Radio repair
Dwight Church	West Allis	(NONE)	414 545-6972	Radio Repair- Electronics only
Bill Engaas	Menominee Falls	craftyradioBK@yahoo.com	414 217-6001	Speaker Repair
Mike Lewis	Oregon	deepheart@att.net	608 835-7193	Training
Ben Bensaid	Elkhorn	RegalSoundDesign@gmail.com	262 581-5453	Repair and restoration
Bill Callaway Vintage Clock and	Mattoon Antique Radio Serv	pitboxer3@live.com vice Website: callawayclockanda	715 571-4304 antiqueradioser	Repair - all vice.com

## **ONLINE WANT ADS**

**FOR SALE:** Grandfather clock radio, serviced and working great. Radio can be viewed on YouTube here: <a href="https://youtu.be/Y1RTGBiCl-s">https://youtu.be/Y1RTGBiCl-s</a> If interested, make an offer. Call Frank Prince 262-639-9307.

**FOR SALE:** 



**WANTED**: I'm looking for the following items. Call Frank Prince at 262 639-9307

- 1970's LED Watches
- Philco 90 Chassis
- Zenith 15-U-270 and other large tube count radios.

*WANTED:* DVD Recorder, working condition w/remote. Call Ben D. 262 412-6208 or Mike Piering 262 344-3302

FOR SALE: Electrovoice 18W(wide) bare floor Speaker, Brand New. Asking \$250. or close offer.

Contact Ron Z. c/o 2860 Hwy K, Franksville, WI 53126 (no phone)

**WANTED:** Large Stromberg Carlson floor standing cone speaker. Contact Grant Steger 920 344-2155

WANTED: Any Lincoln, Sargent or Postal radios. RCA AR-60, RCA AR-67 or National AGS Communications receivers. Hammarlund SP-50 console radio, RCA AVR-5-A general Purpose receiver. Call Tony Peterson (763) 4223-8889 or Email: ton10291@comcast.net

**WANTED:** Atwater Kent Model M Speaker, Atwater Kent Model 55 Chassis, contact Cedric Fry at: caf53813@gmail.com

**WANTED:** Dial glass below for 1941 Philco console radio models 41-295, 41-300, 41-315, 41-316, 41-616. Measures 10.12" W x 2.38" H. Also looking for pushbuttons for the same model. Call Ben at (262)412-6208 Mike Piering at (262)344-3302.





# ORC Regional Fall Swapfest



The Ozaukee Radio Club presents its 15th annual outdoor regional Fall Amateur Radio and Hobby Swapfest

Saturday, August 29th, 2020

Firemen's Park (W65 N796) on Washington Avenue in Cedarburg WI 53012 N 43° 18.283' W 087° 59.500'

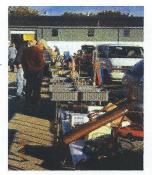
Setup and general admission from 6am to noon – Door prizes
Refreshments available inside the exhibit hall
\$5 admission at the gate – buyers and sellers – 12 & under free
Just park and sell your stuff or just browse & buy their stuff

Inside tables \$10 as available (5 for \$40) – ARRL and Commercial Vendors are typically inside









Go to

www.ozaukeeradioclub.org or

Facebook.com/orcwi

For more information call

262-377-6945 (h) (W9IPR)

262-844-6331 (c)

Note: The Covid-19 Pandemic may affect scheduling – check ORC website periodically.

May 26, 2020

WARCI Members,

We regret to inform you that the WARCI Board has decided to cancel the June and July 2020 WARCI swap meets due to COVID-19. It is likely that the community spread of COVID-19 will continue well into the summer months. Due to the age demographic of our membership, a swap meet poses an unacceptable level of risk to our buyers, sellers, volunteers, and their families.

In addition to the obvious health risk, the City of Milwaukee currently has orders in effect that prohibit gatherings of 10 or more people. For more information on the local orders, see Orders #1 and #2 of Moving Milwaukee Forward - COVID-19 Public Health Plan for the City of Milwaukee [https://city.milwaukee.gov/Order1MovingMilwaukeeForward],

The WARCI Board will continue to monitor the situation throughout the year and reassess the feasibility of the August, September, and November meets at a later date.

[https://milwaukee.gov/Order2MovingMilwaukeeForward].

On behalf of the WARCI board, we wish you and your family the best of health and we thank you for your patience as we navigate the ongoing COVID-19 situation.

Nick Tillich **WARCI** President president@warci.org

Revis	ed Swap Meet Dates for 2020 Wisconsin Antique
19 January, 202	0 - Hampton Inn 8201 W. Greenfield Ave, West Allis, WI
15 March, 2020	- Hampton Inn 8201 W. Greenfield Ave, West Allis, WI
3 May, 2020	- Madison Chapter Meet CANCELLED
7 June, 2020	- Landmark/Terminal CANCELLED
12 July, 2020	- Landmark/Terminal CANCELLED
23 August, 2020	- Madison Chapter Meet 3610 Lexington Ave, Madison, WI
13 Sept, 2020	- NEW LOCATION: New Berlin Ale House 16000 W. Cleveland Ave, New Berlin, WI
8 Nov, 2020	- Landmark/Terminal 5917 S. Howell Ave, Milwaukee, WI
Please no	te: Milwaukee-area meets are from 8AM - 11AM
	Madison-area meets are from 8:30AM - 11:30AM