Wisconsin Antique Radio Club Inc.
www.warci.org

WARCI News

Fall is in the Air !!!

Volume 20 September - 2017 Issue 5

ATTENTION !!!

September ia free month.
No Seller fees will be collected for this meet.

Allen-Bradley of Milwaukee, Another Wisconsin Radio Company
By Dale Boyce
Starting on page 5

Next WARCI Meet :

Sunday Sept. 17, 2017: 8:00 -11:00 AM
Doors open at 8 AM for setup indoors

The Landmark/Terminal site (see page 26) located at 5905 / 5917 So. Howell Avenue, in Milwaukee, near the Airport. Look for the signs !

Features: Swap Meet, 50-50 Raffle, donation auction, and Joe's Great Pizza !

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WARCI, INC.

The Wisconsin Antique Radio Club, Inc. exists to preserve the knowledge of radio, television, and other related technologies. We have a special interest in the history of radio in Wisconsin, radio companies, radio stations, etc. Our members' interests include radio, television, audio, microphones, jukeboxes, and antique phonographs.

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WARCI Information

WARCI is incorporated in the State of Wisconsin.

Annual membership dues are $15 for each calendar year, January – December. (Allowance is now made for new members joining in September or November.) Seller's fee at Swap Meets is $7.00 for members, $10 for non-members. The next Swap Meet will be held on Sunday September 17th, 2017, at the Landmark / Terminal facility on Howell Avenue near the airport (see insert on page 26).

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.

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Classified ads up to ¼ 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.)

Rules for New Member Dues

WARCI membership runs January to December. But we do get new members joining later in the year. To accommodate them, the WARCI Board has agreed to a policy for membership dues for late joiners. From now on, if a person joins at the September meet, we'll charge $6 for the remainder of the year. If a person joins at the November meet, we'll just charge $15 and include the following year.

WARCI Website

www.warci.org

The WARCI website features information about WARCI activities, Wisconsin radio, articles, etc. Contributions are most welcome! Contact our webmaster Nick Tillich, at webmaster@warci.org . Thank you, Nick, for your great work !

WARCI Headlines

July Meet Notes

The July meet at the Landmark was another great turnout with good weather that was warm throughout the whole day. We had 20 sellers on the grounds 9 of which were non-members. By 9:30 AM we had 74 buyers walking the grounds. Our donation auction had 57 items which brought in $162. Our 50-50 raffle netted $42 to the club, our clothing sales sold $57 worth of items. Everyone enjoyed the sub sandwiches and chips that were bought by the club from cousins sub shop. Cold water was also available for the party. Hats off to cousin subs for delivering those sub party packs on time and made our party a success!

Membership Update

We now have109 active members in the club. Of those 96 have paid up status leaving 13 members that have not paid for this year -- please do so, or you risk of losing the club newsletter that comes out five times a year!

Looking Ahead to the End of the Year

September will be the last newsletter of the year, with no Newsletter in November, instead a postcard will be mailed out with the following 2018 yearly events the club will plan for and hope everyone can attend.

Same Location for January 14 Meet

Knights of Columbus, 1800 So. 92nd Street, West Allis, Wi.

8 - 11 AM Swapmeet

Buyers use lobby entrance, follow the signs. Sellers use double doors just west of the lobby for unloading. Doors open for set up at 7:00AM, open to public at 8AM.

New Members !

WARCI Would like to welcome these new members to the club :

David Carpediem

Phillip Drexler

Ben D.

Tom Houle

Oliver Kozak (Ed Kozak's son)

Robert Kroll

News from Neighboring Clubs

Elkhorn Antique Flea Market

September 24, 2017

Walworth County Fairgrounds

411 E. Court St. (Hwy 11)

Elkhorn, Wisc 53121

414 525-0820

www.nlpromotionsllc.com

Peoria Superfest

September 16 - 17, 2017

Exposition Gardens

1601 W. Northmoor Rd.

Peoria, IL 61612

www.w9uiv.org

ORC Regional Fall Swapfest

The Ozaukee Radio Club

Saturday Sept 23, 2017

Firemans Park, Cedarburg, Wisc 53012

262 377-6945

www.ozaukeeradioclub.org

Radio 2017 Expo

Northern Illinois Largest Hamfest

Saturday Sept 23, 2017

Boone County Fairgrounds

8791 IL-76, Belvidere, IL 61008

www.chicagofmclub.org

Swapfest by Sewfars

Sunday Oct 8, 2017

Sterling Chalet

1271 Hwy 175

Hubertus, Wisc

www.sewfars.com

NARC Annual Meeting And Swap Meet

Northland Antique Radio Club

Sunday September 17, 2017

Pavek Museum

3517 Raleigh Ave., St. Louis Park, Mn

www.northlandantiqueradioclub.com

Allen-Bradley Company of Milwaukee, Part 3

by Dale Boyce

This article is another installment in our continuing series on Wisconsin radio manufacturing companies and their products. Allen-Bradley Company (A-B) of Milwaukee was a nationally prominent manufacturer of radio devices and components in the 1920s, a producer and distributor of a line of three tube RC-coupled amplifiers, and even dipped a corporate toe into the water of radio set production in 1926-27. For many years, founding WARCI member Dale Boyce has collected 1920s Wisconsin made radios and accessories from over 30 companies. The collection includes A-B radio devices and amplifiers. He has researched the company's history to produce a three-part article for the WARCI News. The January 2015 issue, part 1, featured a brief chronology of A-B company history and the three tube A-B amplifiers. The July 2015 issue, Part 2, discussed A-B radio components and Radio Devices in detail. In this Part 3 issue, the A-B Tuned Radio Frequency (TRF) Prototype radio (receiver) of 1926-27 is featured. Part 3 will also identify a few of the iconic landmark buildings in Milwaukee that are associated with Allen-Bradley Co.

Allen-Bradley Co. 1926-27 Prototype TRF Radio

This author saw "the radio" during Allen-Bradley Co. Museum tours on May 18, 1986 and on May 13, 2002. He also saw it on several occasions from 2003-April 2015, when "the radio" was visible in the Rockwell Automation/Allen-Bradley Company display at the Milwaukee Public Museum (MPM). This display was in "The Streets of Old Milwaukee" section of the MPM.

On December 22, 2014 after visiting "the radio" at MPM, the author went to The Milwaukee County Historical Society (TMCHS) to research A-B Co. information in TMCHS collection. The author happened to find a black and white photo of "the radio" and four men in coats and ties. There is a radio speaker behind the radio. "The radio" is distinctive with its octagonal A-B Co. logo. The men are standing behind the radio and speaker. Other than being able to read the nametag on one of the guy's coat, they are not identified. The image is identified as "from the Allen-Bradley Collection (Scan #PS10832e"). The author filled out paperwork, paid a fee and obtained permission from TMCHS to include the black and white photograph of "the radio" and four men in a future article in the WARCI Newsletter. Refer to Figure 1.

In June, 2015, Carol Kelly, Brand Management, Global Sales and Marketing from Rockwell Automation, introduced me to the publication "A HISTORY OF THE ALLEN-BRADLEY COMPANY, Changing With the Times", March 1987, Author, Jan Gottfredsen Nevitt. A similar photograph of "the radio" but with 5 identified individuals appears on page 40 of the publication. The photograph caption indicates that the photo was taken at a retired Allen-Bradley employee gathering in March 1970.

Continued on page 6

Continued from page 5

According to an August 26, 2015 email from Jan Gottfredsen Nevitt, the location was at the plant (factory) and the photographer was Dick Johnson. Four of the men appear (fig. 1) to be the same as the men in the black and white photo but they are standing in different adjacencies. Based on the identification of these 5 men, the 4 men in the Milwaukee County Historical Society photo identified from left-to-right are:

Mr. Barney Tellkamp

Mr. Lynn Matthias

Mr. Daniel S. W. Kelly

Mr. Homer "Tommy" Thompson

(Mr. Harold Zabel is included in the group of 5 but not the group of 4.)

A 1928 Philco Mantel Type Radio Speaker Model 221 appears behind the radio. This speaker could be used on either a battery or AC powered radio.

Fig. 1, "Photograph courtesy of the Milwaukee County Historical Society"

These men appear to be in good humor. (The author speculates that the radio and speaker had been modified and were operating at that event on a concealed transistor radio/speaker arrangement.)

Continued of page 7

Continued from page 6

"The TRF radio" made by Allen-Bradley Company is briefly mentioned on page 41 of the John Gurda book "The Bradley Legacy", 1992, The Lynde and Harry Bradley Foundation. "In 1927…one of Matthias's first acts was to derail the company's plans to sell a complete radio set of its own. It was an enormous receiver that cost twice what competitors were charging. If we'd gone ahead with that, … it would have been the end of Allen-Bradley."

This information is also included on page 33 of the publication "A HISTORY OF THE ALLEN-BRADLEY COMPANY, Changing With the Times", March 1987.

(As explained by Bob Smith and Jan Nevitt in the August 26, 2015 email, "I do remember the A-B radio. And I too believe it was a prototype never put into production…. After all- had they gone into production, they would have been competing (with) most of their big customers Zenith, Atwater Kent, Philco and others...")

As indicated in the Part 2 WARCI Article in July 2015, at least seventeen (17) different types of "Radio Devices" in numerous ratings, in addition to the 3-tube Perfect Audio Amplifiers were being designed and manufactured and sold by Allen-Bradley Co. during this time frame.

TRACKING DOWN THE ELUSIVE RADIO

In 2014, during a discussion with Bob Paquette, Sr. (Paquette Microphone Museum, Milwaukee, WI) about his Allen-Bradley Co. amplifier, he referred me to a former Allen-Bradley Co. employee. Bob suggested that Mr. Ted Hutton could identify someone at Rockwell Automation who could help me gain access to the radio. Mr. Hutton referred me to Mr. Douglas M. Hagerman, Sr. V.P. General Counsel & Secretary for Rockwell Automation, Inc.

By email, Mr. Hagerman gave me written permission to examine and photograph the radio at the Milwaukee Public Museum (MPM). When I contacted Mr. Al Muchka at MPM, I was informed that the Rockwell Automation Marketing Department had recently removed "the radio" and the rest of the Rockwell Automation/Allen-Bradley Co. exhibit from the MPM. The MPM was in the process of renovating The Streets of Old Milwaukee section of the MPM, so all exhibits had to be removed. Mr. Hagerman then directed Carol Kelly, Brand Management, Global Sales and Marketing from Rockwell Automation to contact me. In April of 2015 "the radio" and the rest of the display was returned to Rockwell Automation. On June 29, 2015 with assistance from my wife, Chris, and Carol Kelly, I had the opportunity to examine and photograph the radio at Rockwell Automation headquarters. On another visit on September 2, 2015 we re-examined the radio and took some additional photographs.

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PROTOTYPE RADIO CABINET PHYSICAL INFORMATION

"The radio" measures 27-3/4 inches wide (left-to-right with handles folded), 9-3/16 inches top-to-bottom and 14-13/16" inches front-to-back. It is 31-3/4inches wide (left –to-right with handles extended). Photos and dimension measurements by Carol Kelly. Refer to Figures 2, 3 and 4.

It weighs approximately 66 pounds. The empty cabinet weighs approximately 21 pounds and the chassis with front panel weighs approximately 45 pounds. (Measurements were made with the use of my portable digital bathroom scale. First I stepped on the scale without "the radio". Then, I was weighed holding the empty cabinet. Next, I was weighed holding the chassis. Math was applied to the numbers. It was helpful to have assistance from others to read the numbers as my view of the scale readings was blocked by the objects that I was holding.)

The cabinet is constructed of 11/16 '' thick solid walnut. All outside corners are protected by chrome-plated fittings. Chrome plated lifting handles are incorporated into both end panels of the cabinet. Their normal position is folded down against the end panels. When used for lifting they rotate up 90 degrees in the fashion of handles for heavy chests or cabinets.

The 3/16- inch thick Bakelite front panel measures 26 inches x 7-1/2 inches.

Length

with brackets 27 3/4" -- without brackets 27 1/2"

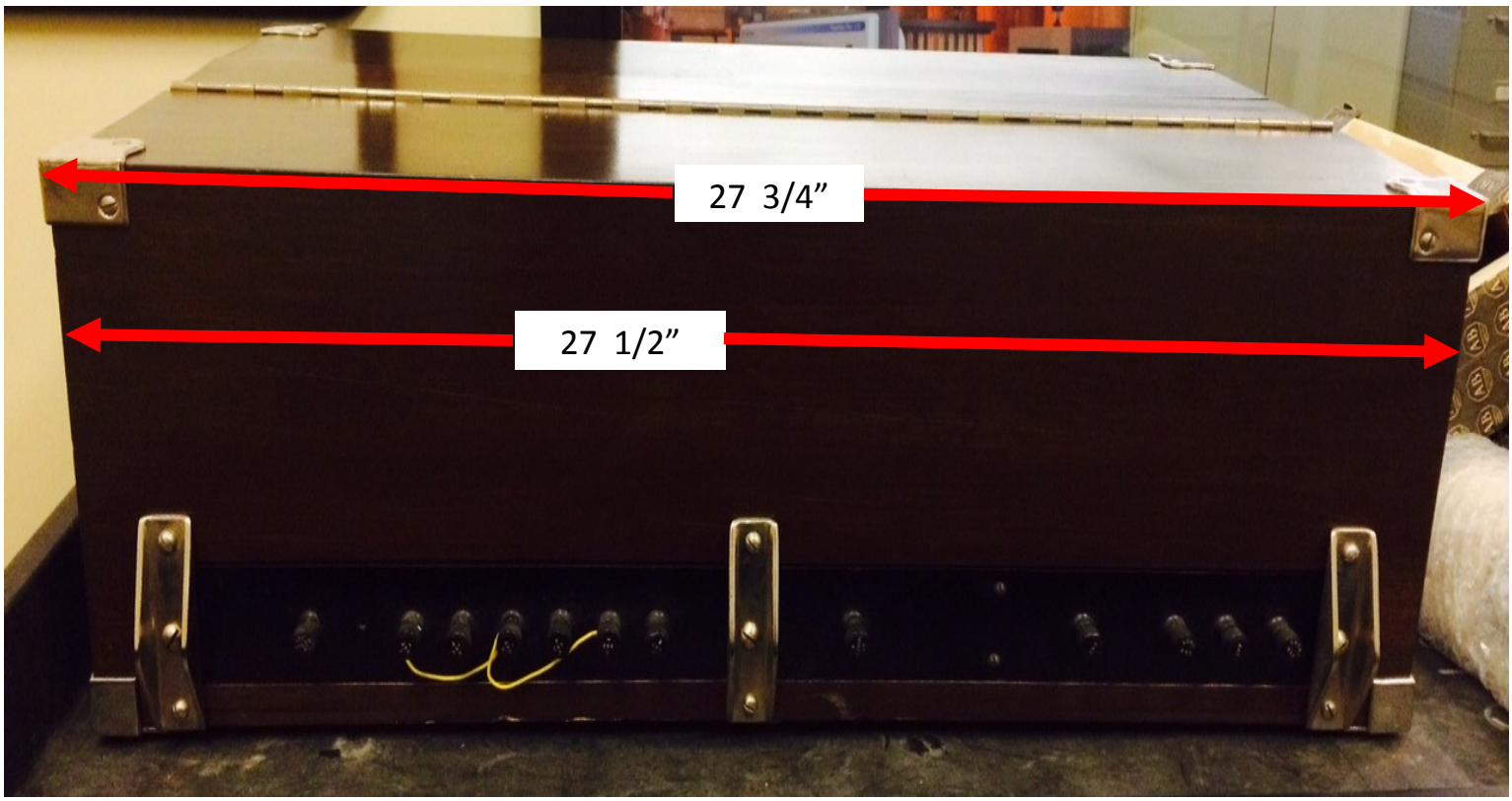

Fig. 2

Continued on page 9

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Side – Height

from bottom to top of bracket 9 3/16" -- to top of wood case 9 1/8"

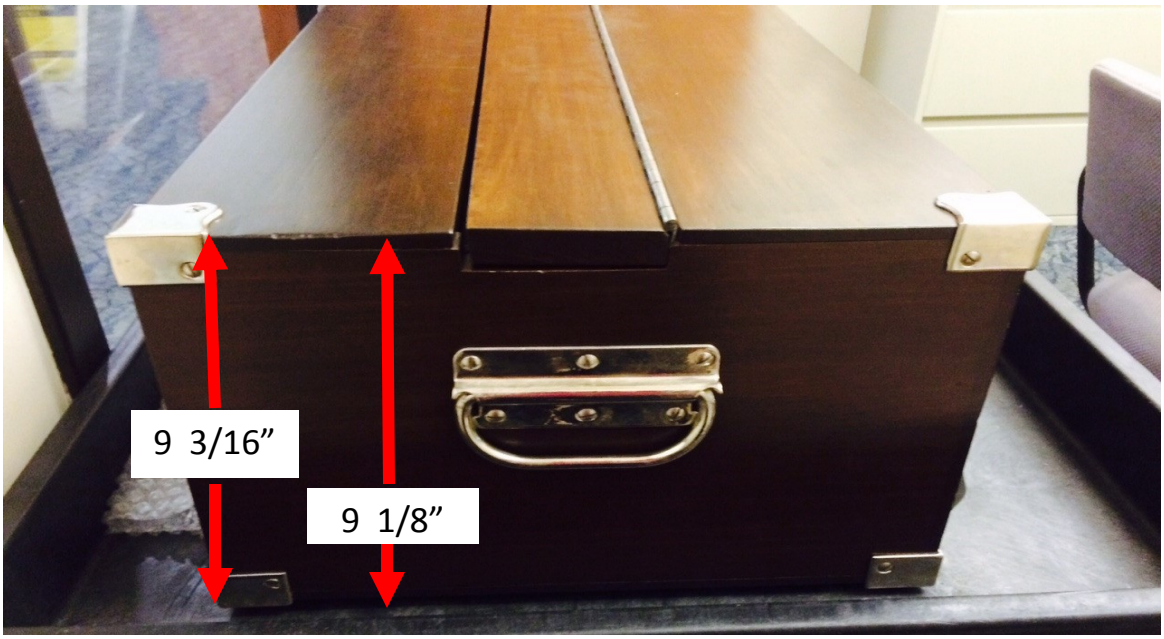

Fig. 3

Top – Depth

(with brackets 14 13/16" -- without brackets 14 5/8")

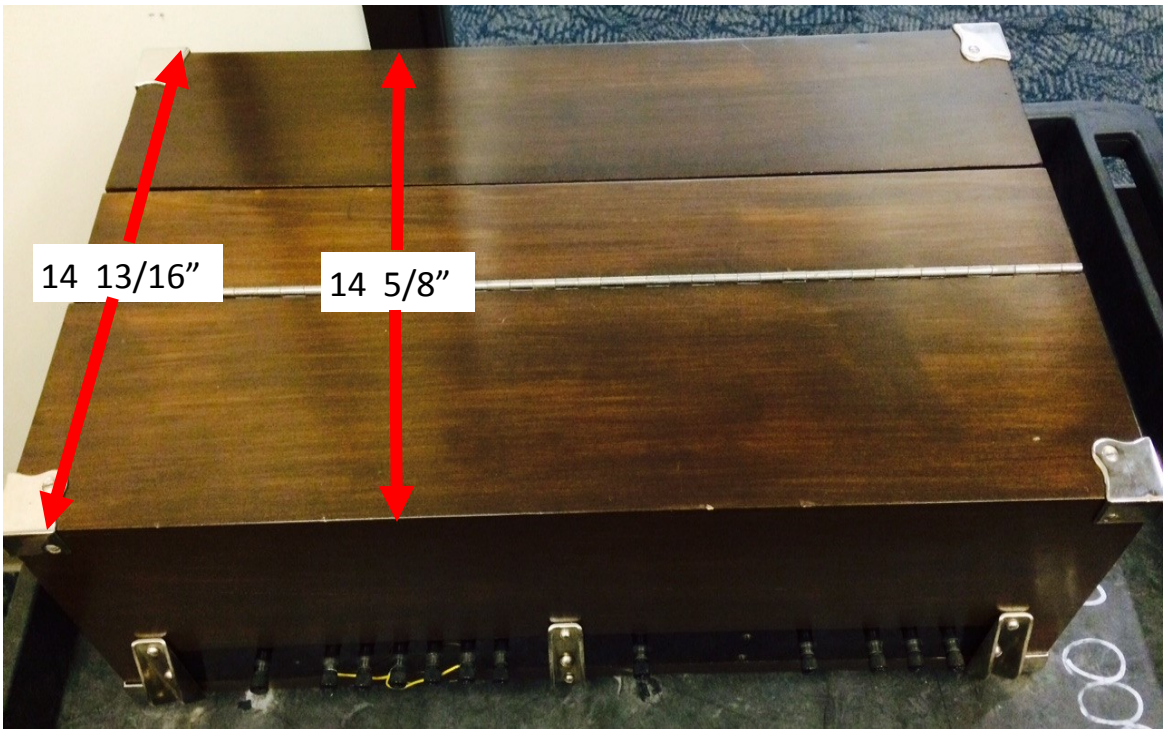

Fig. 4

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The front panel (refer to Fig. 1) of the radio has a push-pull, ON-OFF switch (similar to a "Bradleyswitch") with a jeweled pilot light. It also has a simple 1-1/2 inch diameter rotary type volume control knob. These are located off-center right and left, near the lower area of the front panel.

Primary tuning is done by making contact with the portion of the thumb wheel tuning dial which projects thru the face of the front panel. The dimensions of the chrome escutcheon around this portion of the thumb wheel are 1-7/8 inches by 4-1/8 inches. Behind the front panel, the thumb-wheel is secured to a cast metal drum type tuning wheel which is secured on the main horizontal tuning shaft. The drum dial is marked with 0-100 gradations. The drum dial is 5-1/4 inches in diameter and 1-1/16 inch wide. The thumbwheel portion of the drum dial is ¼ inch wide and 5-3/4 inches in diameter. The dial has 180 degrees of rotation.

Fine tuning is accomplished by pushing and turning a 1-3/4 inch diameter knob which puts an internal rubber wheel in contact with a beveled circular cast wheel which is also attached to the main horizontal tuning shaft. This is similar to how the "Bradleynier" fine tuning knob was used to adjust large tuning knobs on other radios. Refer to Figure 5.

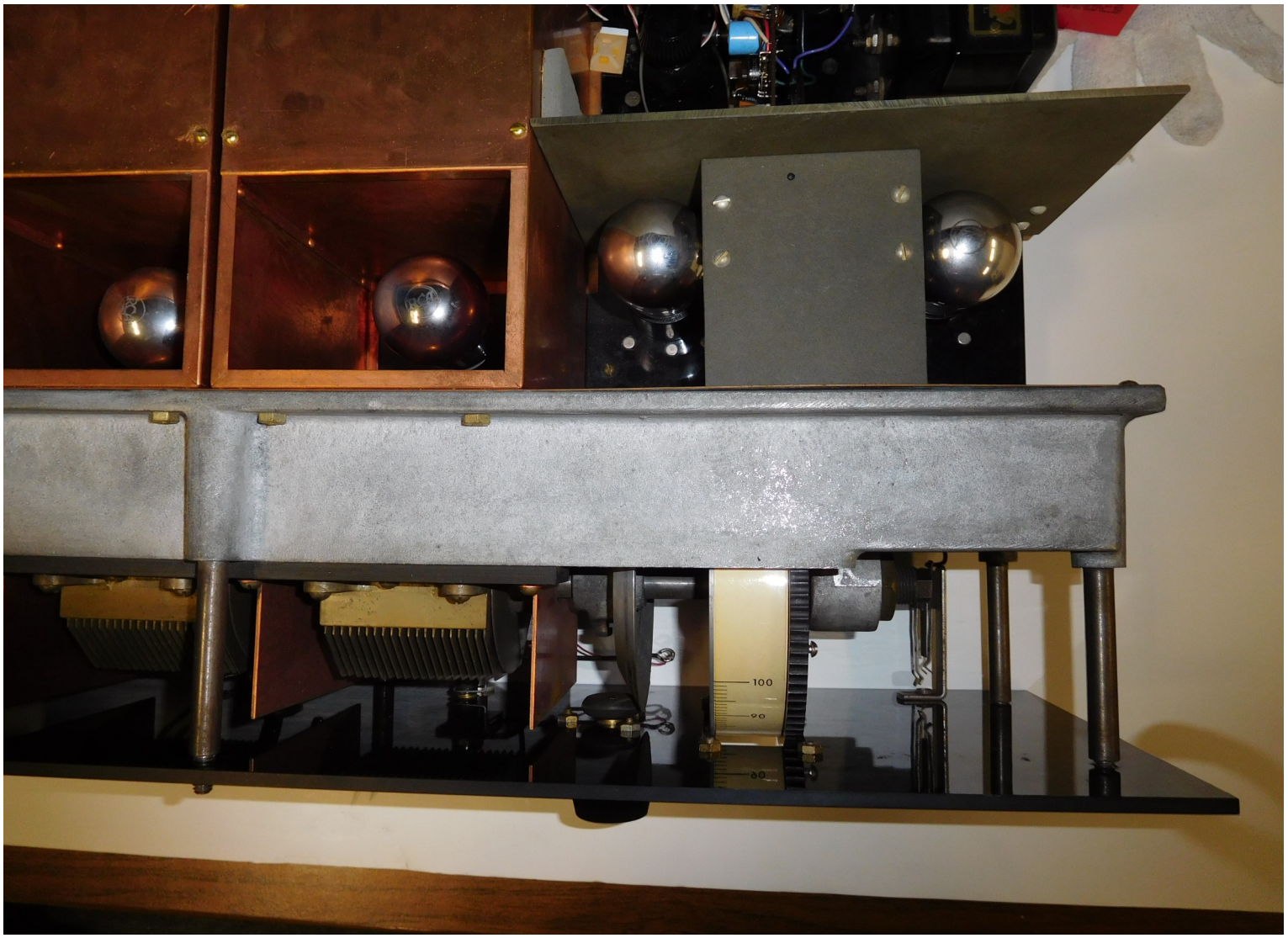

Fig. 5

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Additional fine tuning is available by adjusting another 1-1/2 inch diameter knob which operates a small 12 plate MAR-CO tuning capacitor in the antenna circuit. This knob is located in the lower left area of the front panel. A standard ¼ inch audio jack for connection to a speaker or earphones is located in the lower right area of the front panel. An octagonal Allen-Bradley Company medallion type logo graces the front of the panel. The major dimension across the flat faces of the octagon is 1 inch. Six (6) chrome plated acorn style hex nuts secure the front panel to the front chassis casting. A full length 3-1/2 inch wide hinged door section at the top of the cabinet allows access to the radio tubes. The door opens 180 degrees. The piano-type hinge has a chrome finish. Refer to Figure 6.

Fig. 6

The radio has twelve (12) external terminals on the back for connections to antennas, ground and batteries. The cabinet has no internal battery compartment or space to mount an internal battery eliminator.

The radio is designed and constructed for battery operation. Twelve terminals on the back side of the chassis/cabinet are identified as: Short Antenna, Antenna, Long Antenna, Ground, 67 Volt +, B Detector +, C Battery -, C Battery +, A Battery -, A Battery +, B Battery -, +/-, 130Volt (DC). Refer to Figure 7.

Three (3) bolts and metal brackets located along the terminal connectors on the back side of the radio secure the chassis frame to the cabinet. The chassis fits snuggly into the cabinet with no room to spare.

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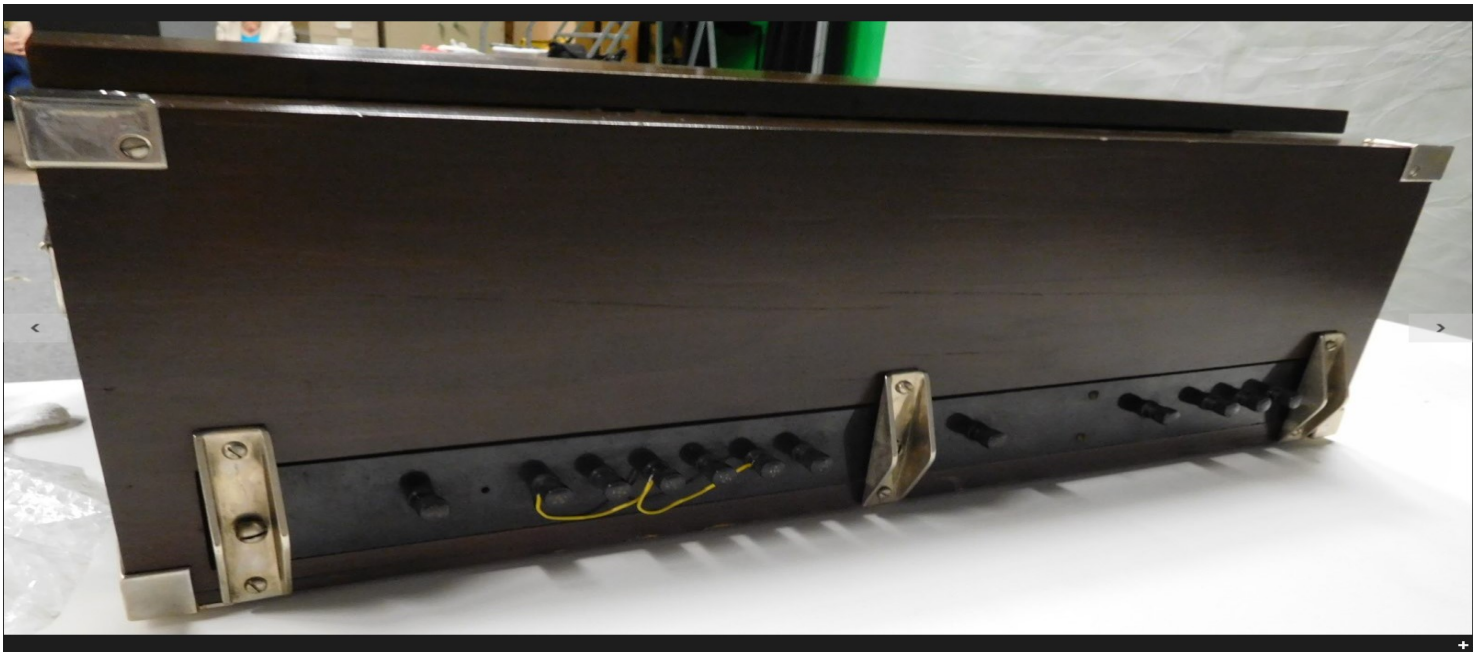

Fig. 7

Fig. 8

The front section of the chassis includes the heavy cast metal frame, the common horizontal tuning shaft, variable tuning capacitors, tuning dials and mounting brackets for the front panel and adjustable controls. The back section of the chassis includes a heavy brass and copper frame which supports a horizontal Bakelite panel. Components are mounted above and below this Bakelite panel. Openings for the tube pins are drilled thru the panel. The tubes are held in place by contact tension where they meet the underside wiring components. While some of the wiring is above the panel, most of the wiring is concealed below the panel. The four variable capacitors are mounted on a vertical Bakelite panel on the front side of the cast frame. This vertical panel consists of a copper sheet laminated between two Bakelite sheets. It appears to be another level of RFI shielding. The cast metal front chassis section is rigidly bolted to the rear chassis frame. Wiring which goes between sections is insulated and centered on insulated grommets. Refer to Fig. 9 next page.

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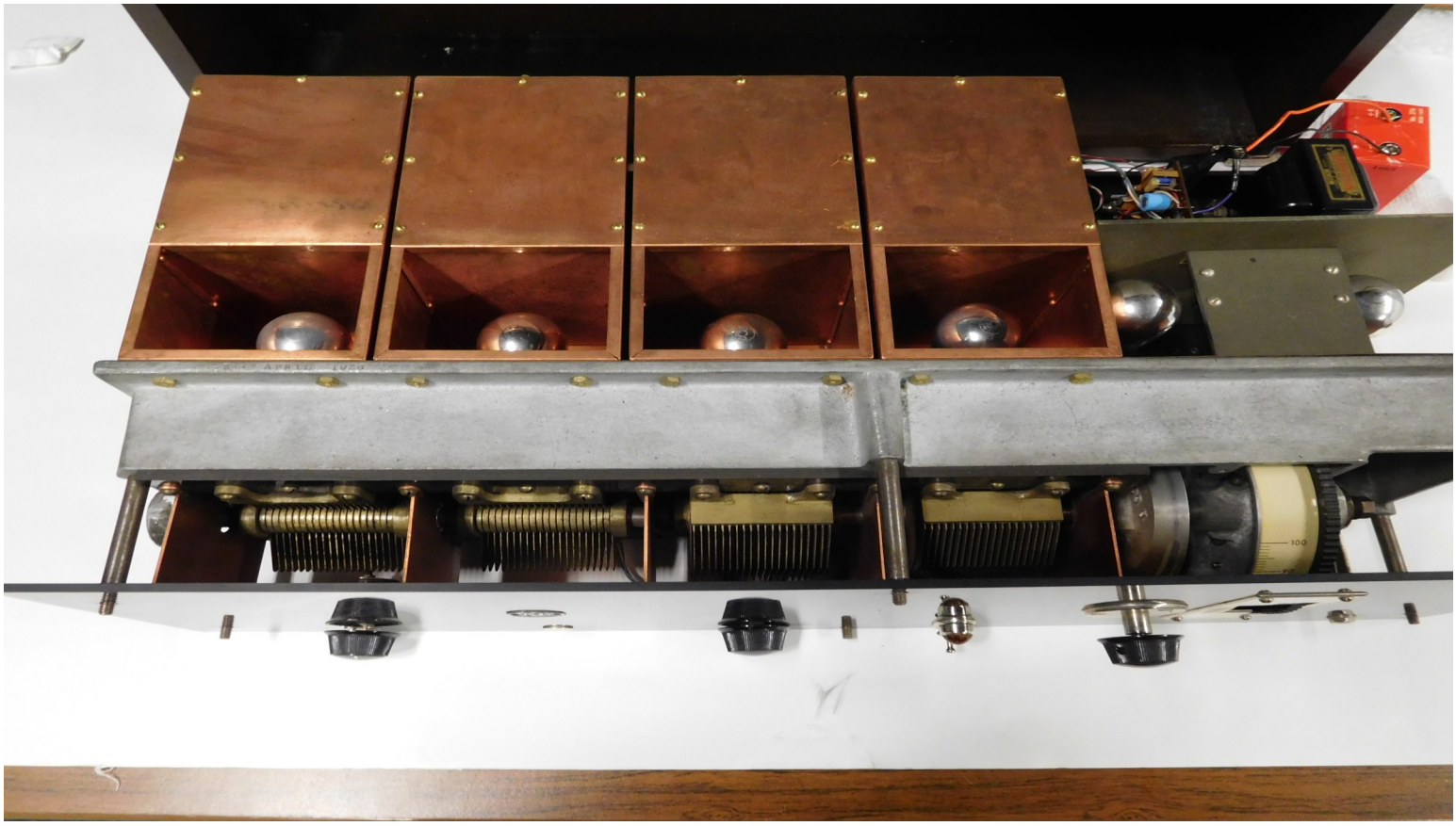

Fig. 9

QUESTIONS

The Author had lots of questions about the radio.

Most radios from the late 1910s thru the mid 1920s were battery powered and had several tuning knobs that had to be precisely adjusted to select a station. This radio obviously has one (1) tuning knob/dial. By the mid 1920s, many radio companies were manufacturing single dial tuning radios because they were much easier to tune. From the late 1920s thru present time (2017) most radios have a single tuning dial.

Is this single tuning dial radio battery powered or AC powered? Answer: Battery/DC powered.

By 1927, 110-120 volt alternating current (AC) became available in businesses and homes in many parts of the United States. In response, several companies began manufacturing and selling AC radios. (Radio tubes which could operate on AC became available on a limited basis in 1926). Instead of throwing away battery radios, tubes and accessories, battery powered radios could be fitted with a battery eliminator to operate on AC. Was this radio provided with a battery eliminator? Answer: No.

Does this radio include Allen-Bradley Co. Radio Devices in its components? Answer: Yes.

Does this radio include an Allen-Bradley Co. Perfect Audio Amplifier in its design and construction? Answer: Yes.

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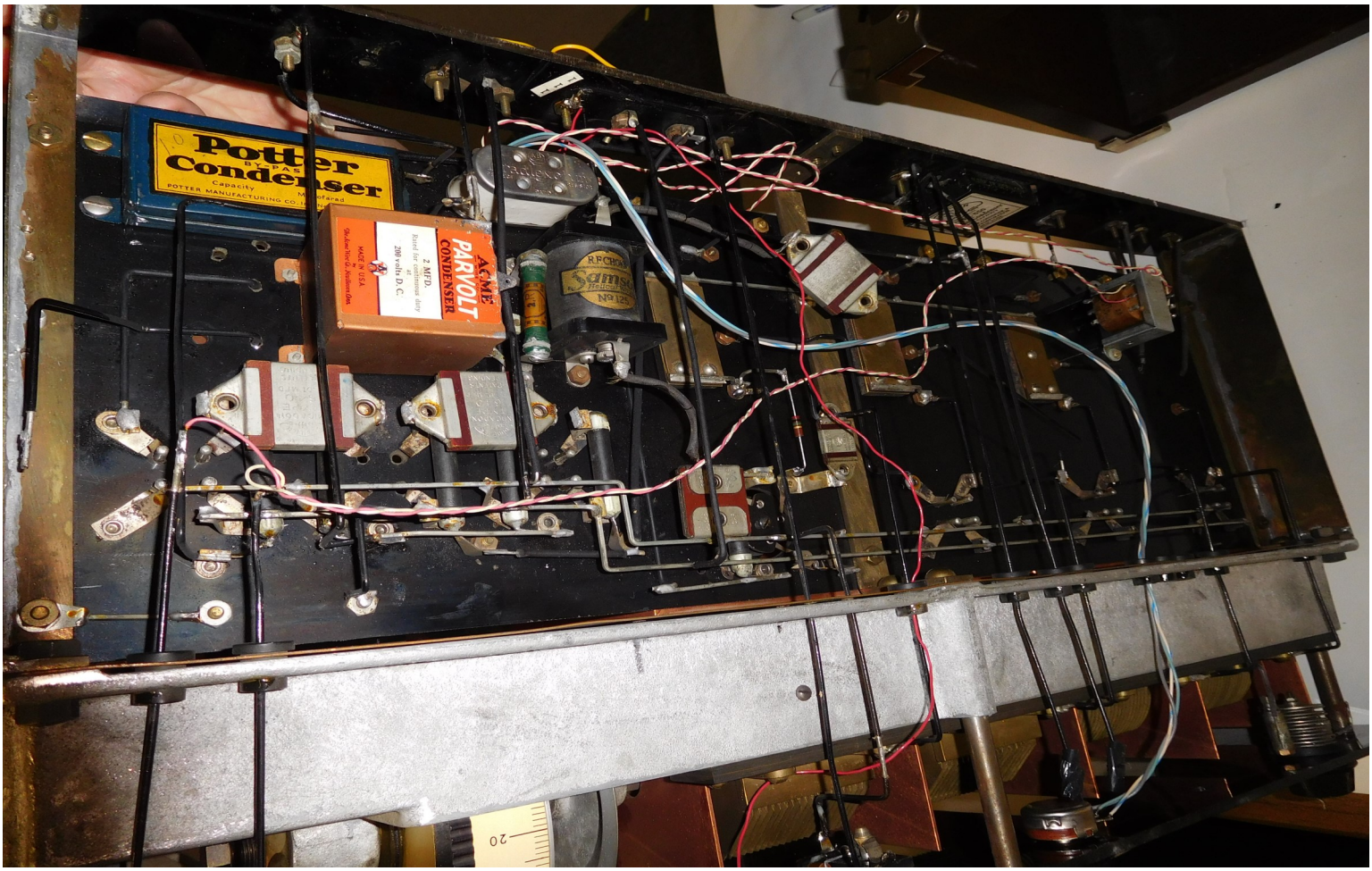

Fig. 10

Fig. 11

Continued on page 15

Continued from page 14

PROTOTYPE RADIO COMPONENT LAYOUT

As viewed from the top/front, the components are arranged in the traditional TRF layout which is: left-to-right with the antenna connections on the far left followed by RF sections, AF sections, detector and audio output on the far right.

The four (4), ganged, Radio Frequency (RF) tuning capacitors are mounted in a substantial cast aluminum framework and secured to the main horizontal tuning shaft. Many radio companies used "pot metal", also known as "smelter metal" for parts which were cast. Most of these "pot metal" parts deteriorate over time. An indication of the high quality of this radio is that no "pot metal" was observed.

The brass blades/plates of the ganged tuning capacitors are enclosed in the cast frame. Each section of this frame is approximately 4 inches in diameter and fits on a 4-inch-long section of the common horizontal tuning shaft. The stationary (stator) sections are arranged in two groups of two. The rotating (rotors) sections are mounted to the common horizontal shaft which rotates 180 degrees through its tuning extremes. These brass capacitors (condensers) appear to be a version of the "Bradleydenser" product. There are 20 stators and 19 rotors in each capacitor which makes them 39 blade/plate capacitors. Other companies frequently used aluminum instead of brass for capacitors.

The radio includes four (4) stages of radio frequency (RF) tuning and three (3) stages of audio frequency (AF) amplification. All seven (7) tube sockets are 4-pin type. The tubes included are Type O1A. Having examined several 3-tube, "Allen-Bradley Perfect Audio Amplifiers" for a previous WARCI article, the author was not surprised to find that the 3-tube amplifier (AF) section was a slight variation on the A-B Co. Perfect Amplifiers. This (AF) amplifier is definitely of the resistance (and capacitance) coupled type and not the more common audio frequency transformer type. Resistance coupled amplifiers would go on to become the industry standard. Refer to Figure 9

The 4 tubes in the RF section are each located in individual framed copper compartments. The compartments each measure 4 inches wide, 2-7/8 inches front to back and 5-1/2 inches top to bottom. The top of each compartment is open for access to each tube and is not shielded. The bottom of each compartment has 4 holes drilled into the Bakelite base for inserting the 4-pin tubes. With the level of RFI shielding built into this radio, the author speculates that each of these compartments had removable copper covers which have been misplaced.

Aligned with each of the 4 RF tube compartments are 4 additional copper compartments which house chokes, coils and capacitors. These are shielded from each other and the rest of the radio. These compartments each measure 4 inches wide, 5-1/8 inches front to back and 5-1/2 inches top to bottom. Each of these four compartments has a separate removable copper cover (secured by six screws) and full copper bottom. Some additional components are located behind the amplifier section, but these are not readily accessible thru the top hinged cover. Refer to fig. 10.

The date of **-2- APRIL 1926** is cast into the upper-left area of the cast aluminum front chassis frame.

Refer to Fig. 8.

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Working backwards on the dates mentioned above, the following chronology is suggested. The radio production was terminated during 1927. Based on the date cast into the variable capacitor frame, this part was manufactured on April 2, 1926. To advance the radio to metal casting, and finished cabinet construction, the design and engineering would have been done earlier than April 1926. The layout of the components suggests that the entire radio was engineered in great detail and manufactured to fit into a custom cabinet. The chassis fits snuggly into the cabinet. A radio that is this detailed and elaborate would have logically required an electrical schematic circuit design, electrical component layout blueprints, dimensioned layout of components, dimensioned cabinet construction blueprints and listing of Bills of Materials. It also probably required construction of several intermediate prototypes to achieve the detail of the existing prototype. Until paper trail information is found regarding specific dates for the radio concept, design, schematic and manufacture of the radio, I will refer to this radio as the "**Allen-Bradley Co. 1926-27 Prototype TRF Radio**".

The placard which accompanied the radio exhibit indicated that approximately twelve (12) radios were made before production was halted. The disposition of the other 11 radios remains unknown to this author.

ICONIC LANDMARKS IN MILWAUKEE, WISCONSIN

ALLEN-BRADLY CO. CLOCK TOWER at ROCKWELL AUTOMATION HEADQUARTERS

The largest 4-faced clock in the western hemisphere is located on the Rockwell Automation Headquarters facility at 1201 South 2nd Street, Milwaukee, WI. Each octagonal face is more than 40 feet across. At 333 feet tall, the clock tower is visible from Lake Michigan, I-43, I-94 and throughout Milwaukee. Fun fact: Harry Bradley flipped a switch on Halloween evening, 1962 to light the clock for the first time. A smaller companion tower on an adjacent building digitally displays the current air temperature on four octagonal signs (it was the original clock tower). Fig. 12

Fig. 12

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Continued from page 16

BMO HARRIS BRADLEY CENTER

Located in downtown Milwaukee, this facility has been home to the Milwaukee Bucks NBA Team, and Milwaukee Admirals Hockey Team since it was built in 1990 with funds donated by the "Bradley family".

TEGA CERAMIC FACTORY /U W MILWAUKEE SCHOOL OF FRESHWATER SCIENCES

Located at 600 East Greenfield Avenue a few blocks east of the Rockwell Automation Allen-Bradley clock tower, this facility was built by in 1966 by Allen-Bradley to manufacture architectural tiles and other decorative ceramics. It has a 1200-foot-long slip with deep water ship access to Lake Michigan and beyond. In 1973, it was sold to the University of Wisconsin-Milwaukee (UWM). In 2012, it was remodeled and expanded. It is the home for the UWM Great Lakes Water Institute. This is the only program in the USA that offers a PHD program in Freshwater Sciences. It is internationally recognized for its ongoing research. (The author was the Electrical Engineer for the expansion project).

ALLEN-BRADLEY MEMOROBILIA

In addition to Radio Devices, Amplifiers, and motor control equipment, it is not unusual to find a variety of merchandise with the Allen-Bradley Company logo. Some items that my wife, Chris, and I have found at Antique Shops include: service award pins (## years), cufflinks, a tie-clasp, 4 different sizes of glassware, 2 different sizes of dining plates, multi-colored stamped aluminum coasters and ashtrays, pennants, seat cushions, key chains, paperweights, ashtrays made of ceramic and cast metal and other materials. I have also seen neckties, bowties, toy delivery truck vehicles, pocket calendars and technical catalogs.

After more than 110 years in business with thousands of employees, agents and customers all around the world one can find a variety of merchandise.

REFERENCES

www.RockwellAutomation.com Extensive company history and some info on Radio Devices can be found on this website. The 1925 multi-color Radio Device brochure can be found at this location.

"The Bradley Legacy", by John Gurda, 1992, The Lynde and Harry Bradley Foundation.

"A HISTORY OF THE ALLEN-BRADLEY COMPANY, Changing With the Times", March 1987, Author Jan Gottfredsen Nevitt.

Refer to WARCI News January 2015 and July 2015 for part 1 and part 2 of this series. www.warci.org

Refer to Antique Wireless Association (AWA) Old Timers Bulletin Vol. 18. No 2, Sept 1977, for "A Short History of Allen Bradley Company".

"The Bradley Amplifier", Buford Chidester, MAARC Radio Age, December 1995.

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CREDITS AND THANKS

Chris Boyce. For patience, understanding, assistance, proofreading, encouragement and collaborating in our 34 year search for old radios and accessories.

Mr. Bob Paquette, Sr. owner of the Paquette Microphone Museum in Milwaukee,

for referring me to Ted Hutton.

for permission to photograph Version 4 Allen-Bradley Co. Perfect Audio Amplifier

Ted Hutton, former Rockwell employee, for referring me to contact Doug Hagerman.

Douglas M. Hagerman, Sr. V.P. General Counsel & Secretary for Rockwell Automation, Inc., for granting permission to examine and photograph the radio and for asking Carol Kelly to contact me.

Carol Kelly, Brand Management, Global Sales and Marketing, Rockwell Automation,

for making arrangements for the Author and Chris Boyce see the actual radio, examine it and to photograph it.

for providing physical measurements and photos of the Allen-Bradley Company radio.

for making arrangements to guide the author and Chris Boyce thru the 110 Anniversary display at Rockwell Automation.

for contacting Bob Smith.

for making editorial corrections and comments.

Bob Smith, retired Allen-Bradley Co. employee, for information about the radio and for contacting Jan Gottfredsen Nevitt.

Jan Gottfredsen Nevitt, retired Allen-Bradley Co. employee, Author, "Changing With The Times", and for information about the radio.

James Jerschefske, Allen-Bradley Co. Tour Guide 2002.

Julie Gonzo, Rockwell Automation employee, Allen-Bradley Company information on where to find the 1925 Radio Device brochure.

Steve Schaffer, Milwaukee County Historical Society, for assistance in researching some Allen-Bradley Company information in their collection and for permission to reproduce the archive photo of the Allen-Bradley Company radio.

Al Muchka, Milwaukee Public Museum.

Glenn Trischan for permission to photograph Bradledenser and Box, Bradleynier and Box.

WARCI Editor 2016-2017. Mike Sajdowitz

The late Greg Hunolt.

For copies of radio magazine articles and advertisements.

For the gift of several Allen-Bradley Co. Radio Devices.

For the loan of Version 1, Allen-Bradley Co. Perfect Audio Amplifier for the part 1 article.

For being a Great Radio Friend for 15 years. We miss your genius.

The late Greg Hunolt, WARCI Newsletter Editor, WARCI Past-President and his wife Jean Ann Blanke for editing the drafts of Part 1 and Part 2 and including their insights.

Continued on page 19

Continued from page 18

THE SEARCH GOES ON…

The author is interested in comments from readers and information about other Allen-Bradley Company Radio Devices that are not included in this series of articles. If you own or have access to one of the other 11 (1926-27) Allen-Bradley Company radios, or other prototype radios which may have preceded the 1926-27 model I would like to hear from you. If you have additions or corrections to this series of articles, I am interested in hearing from you. I am looking for Bradleyniers, Bradleydensers, SLF Bradleydensers, Bradleyswitches, Allen-Bradley Co. boxes and literature. Please contact me at www.radioman@wi.rr.com

Thank You.

***

Classified Ads

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

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 8hr 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.

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

For Sale - Ben D.
Orola wind-up phonograph. Located in Mount pleasant, WI. The phonograph was made by General Mfg. Corp in Milwaukee, WI in the 1920's. His name plate that says "With a toneas rich as gold". Looking for best offer. If interested in the item, Call Ben at 262 412-9112 or Mike Piering at 262 344-3302

For Sale - 1938 Zenith 9-S-262 shutterdial console radio. The radio has been recapped and restored electrically. The chassis is clean. The cabinet has been partially refinished and has all its original knobs. $700 invested, asking $725. Located in Mount Pleasant, WI. For more information, contact Ben at 262 412-9112 or Mike Piering at 262 344-3302.

Badger Consignment

eBay Power-Seller

Turn your collection into profit- making treasures!

Badger consignment is an eBay consignment dealer with 12 years, experience specializing in high and antique tube radios and hi-fi tube audio equipment (i.e. tube amps, preamps, receivers, tuners, and much more).

If you have any items you would like sold or repaired/restored call WARCI member Ben Bensaid at (262) 581-5453, Ben@badgerconsignment.com or visit our website at: www.badgercoinsignment.com

Classified Ads

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. 1920's tube type radios, amplifiers and radio parts, parts boxes, advertising, promotional items, etc. made by Allen Bradley Co., Milwaukee, WI.

3. 1920's Crystal radios, tube type radios, advertising and promotional items made by Sunlite Radio, Milwaukee, WI.

4. 1920's Julius Andrae and Sons Co (JASCO) Crystal radios, Radio Catalogs, Radio Equipment and promotional items made by ANDRAE Electric, Milwaukee, WI.

5. 1920's Horn and Cone type Radio Speakers made by Milwaukee companies including: G&G Radio Co, GEMCO, Granolite Art Products, Yahr-Lange, and others.

6. Individual and boxed sets of 1920's Brightson Blue Radio tubes distributed by Yahr-Lange, Milwaukee, WI.

Wanted — Parts and literature:

- Cylindrical Federal #35 RF transformer or similar, 3-/8"L x 1-1/8" diameter, 2 studs/nuts on each end;
- Centralab Catalogs from 1960's – 1980's. Central Radio Laboratories/Centralab parts 1920's – 1980's;
- 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 Globe Electric, Advance Electric, and Fidelity/New England Mills;

Glenn Trischan, 414/357-7024, gnets142@att.net, P.O. Box 240022, Milwaukee, WI 53224

wanted: Parts:
-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

Carl Zimm, beampowered-tetrode@yahoo.com

Advertise with WARCI

Ads up to 1/4 page may be placed in the WARCI News free of charge for WARCI members. Ads Larger than 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)

Classified Ads

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

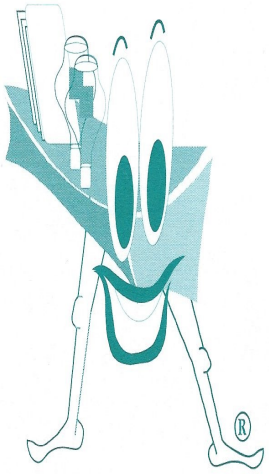
David Whitham
PO Box 212
Franksville, WI 53126

Phone: 262-833-7999
Web: www.electricgurupartshouse.com
Email: info@electricgurupartshouse.com

Vintage Electronics

Patrick Kondreck

Milwaukee, WI
414-444-2339
kondreck@execpc.com



"The Home of Mr. Happy Amp"

'ello, 'ello,

We want to hear from you.....

CALL US AT: 414 476 8474

BY MAIL AT: PO Box 140 Milwaukee WI 53201

E MAIL US AT: prnovelty1@earthlink.net

SHIP TO US AT: 170 South Second St.
Milwaukee WI 53204

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

And Now...

Shop On Line With Us At:

www.prnovelty.com

WARCI SERVICES

WARCI Radio Services

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

Name	Email	Telephone	Service Available
Dwight Church West Allis ,Wi	(none)	414 545-6972	Radio Repair electronics only
Bill Engaas Menominee Falls, Wi	CraftyradioBK@yahoo.com	262 735-4589	Speaker Repair
Bill Callaway Antigo, Wi	pitboxer3@live.com	1-715-623-2565	Repair all vintage electronics
Mike Lewis Oregon, Wi	deepheart@att.net	608 835-7193	Training
Ben Bensaid Elkhorn, Wi	Ben@badgerconsignment.com	262 581-5453	Research, especially on 1920's radios

Pictures from the July Meet

Most of the original founding men of WARCI

1996

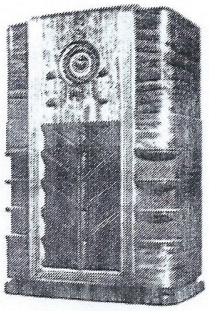
Make me and offer !

Wait, I have more

Looking for old radios, tubes, parts, and other vintage electronics?

You will find them at the

Wisconsin Antique Radio Club Early Fall Swap Meet

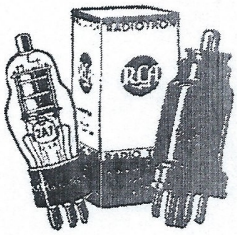


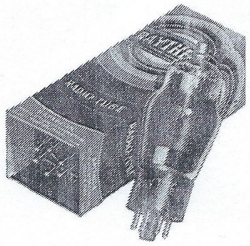
Sunday, September 17,
8:00 to 11:00 AM

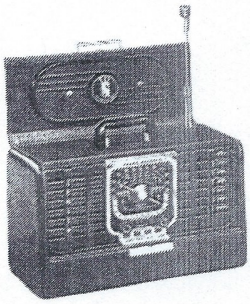
at the

TERMINAL

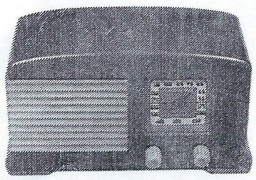
5917 S. Howell Ave.







- No table fee for this meet
- Donation Auction
- 50/50 Raffle
- Free Pizza at 11:00 AM



This is an indoor/outdoor meet but the doors of the Terminal will not open for setup until 8 AM

Wisconsin Antique Radio Club Inc.

www.warci.org

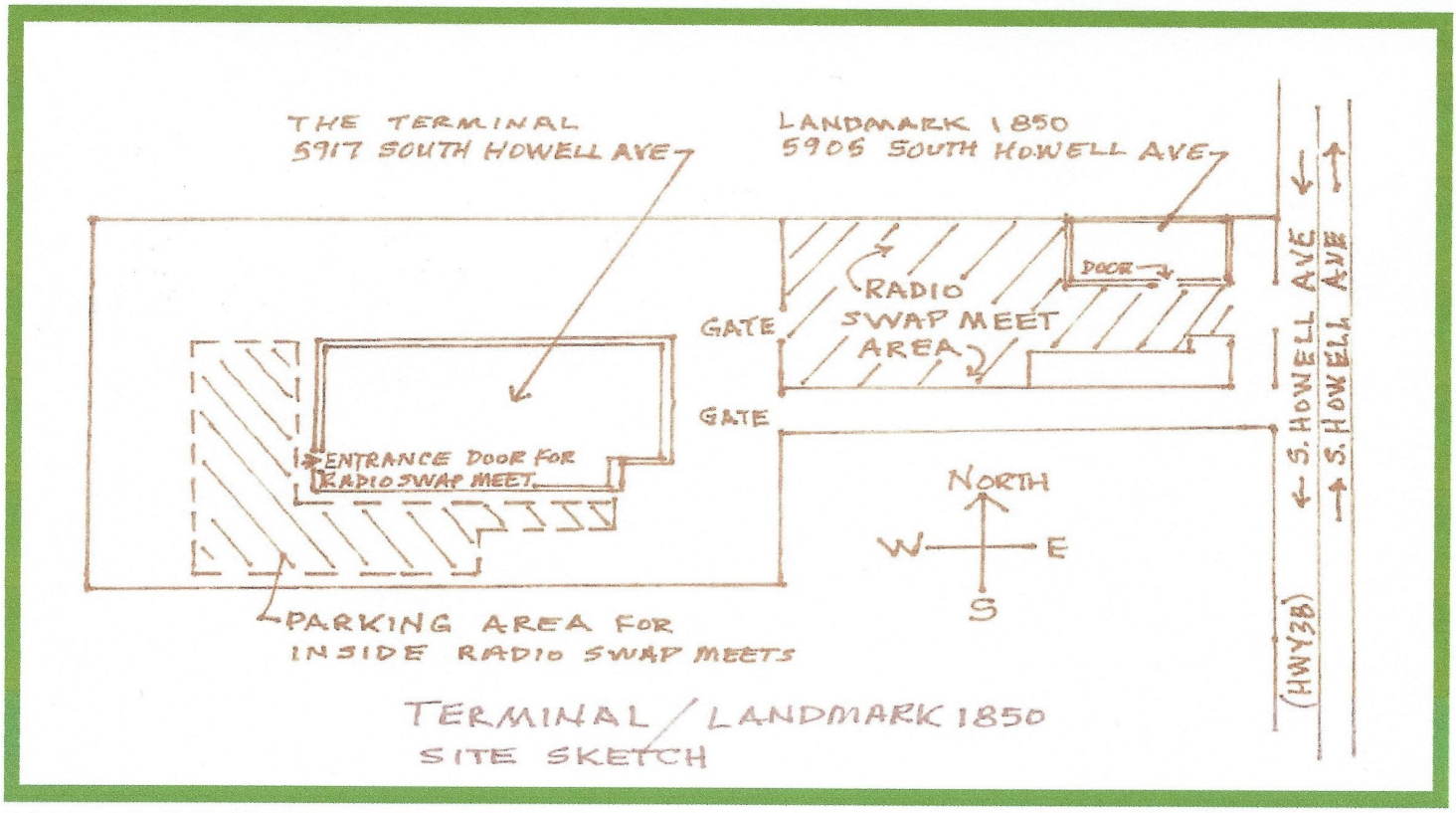
Site Plan for the Landmark / Terminal

Thanks to Joe Halser for hosting WARCI Meets

The Landmark 1850 / Terminal facility is used for WARCI's swap meets (except in January) with the kind permission of Joe Halser (and we also enjoy the delicious Pizza that Joe provides).

The Landmark area is used for outdoor meets held on good weather. The Landmark building is open for refreshments.

The Terminal area is used for indoor meets in rainy or cold weather (though some folks may set up in the Terminal parking area even if the weather is marginal).

The facility in use at a swap meet will be open at 8:00 AM. Folks may come earlier to set up for outdoor selling.

Site Plan drawing provided by Dale Boyce.