The Grid Leak

October. November, December — 2021

UPCOMING EVENTS

- SWAP MEETS AND AUCTIONS OCT. 30TH AND DEC. 4TH.
- GENERAL MEETINGS AND AUCTIONS.
- VRPS CONVENTION NOV. 19TH—21ST, PLANO, TX
- SARGENT AUCTION
- HVRA ANNUAL CONVENTION, MARCH, 2022

WHATS INSIDE

HOUSTON VINTAGE RADIO ASSOCIATION

Since its founding on November 16, 1978, the Houston Vintage Radio Association has been dedicated to the preservation of vintage radios, electronics, and phonograph equipment.

Our members across the USA have varying backgrounds and experiences but are brought together by a common interest in electronics. Many interests represented in our organization include: preservation and restoration of vintage electronics including tube and transistor radios and TVs, phonographs, telephones and cellular communication equipment, telegraph equipment, HAM radios, amplifiers, PCs, relevant literature, recordings, etc.

HVRA COMMUNICATES WITH MEMBERS ACROSS SEVERAL PORTALS:

- The Grid Leak is the official Newsletter, currently published quarterly, distributed primarily by email (and by USPS as necessary).
- HVRA maintains a website, HVRA.org, used for information regarding future events, current activities, contact and operations information, and historical data including photo libraries and past newsletters. Additionally, HVRA information and activity descriptions can be found on Facebook.
- Our normal means of face to face communication is through monthly Board of Directors' meetings and monthly General Membership meetings located at the Bayland Park Community Center;. We have also used Zoom sessions for Board Meeting from home (as necessary) as well as offsite swap meets at alternative locations.

DISCLAIMER

The sharing of information pertaining to restoration and repairs, of any items, appearing in any form, contained in any of the HVRA communication methods, is contributed by members hoping to help and/or assist others in efforts to advance the education of collecting vintage electronics. Therefore, the reader or listener is advised to contact the contributor for a full understanding of the electronic, mechanical, and chemical risks involved in the information of interest. HVRA is not responsible for the accuracy and safety of any repair or restoration topics presented in any

MEMBERSHIP

Annual Dues: $20.00; normally payable prior to the HVRA Annual Convention
Membership Applications available at General Membership Meetings or on HVRA.org

HVRA BOARD MEMBERS

President:	**Bill Werzner**	**713-820-1778**	**werz1943@gmail.com**
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2021 Fourth Quarter Activities Schedule (incl. Sept. 2021 and January, 2022)

September Annual Meeting election results:

Election of V.P., Secretary, At-Large Position I (all 2 year terms).

Results:	**V.P:**	**Lewis Brittain**
	Secretary:	**Mike Monsour**
	At– Large Position I:	**Joe Gernand**

October .

12th, Tuesday, Board of Directors' Meeting remotely via ZOOM at 7:00 PM.

23rd, Saturday, Bayland Park Community Center, General Meeting, Program, & Auction 8:00—11 AM
Program: To Be Announced
Donuts Coffee Juice and condiments.

30th, Swap Meet and Auction: EPO back parking lot. Swap Meet starts at 8AM; HVRA Auction about 9:30AM. Auction manifest by email blast and on website after Oct. 15th. Members are encour aged to bring their own items for auction (10% HVRA commission, paid by seller, on all success fully sold lots).

30th, Jim Sargent auction : Log in and bid remotely For additional info: www.sargentauction.com

November

9th, Tuesday, Board of Directors' Meeting remotely via ZOOM at 7:00 PM.

19th, Vintage Radio and Phonographic Society (VRPS) Annual Convention and Auction, November 19th, 20th and 21st; Plano, Texas. See VRPS.org for additional information.

No General Meeting is Scheduled For November……HAPPY THANKSGIVING.

December

4th Swap Meet and Auction: EPO back parking lot. Swap Meet beginning at 8AM; HVRA Auction beginning about 9:30AM. Auction manifest by email blast and on website. Members are encour aged to bring their own items for auction (10% HVRA commission, paid by seller, on all success fully sold lots).

14th, Tuesday, Board of Directors' Meeting remotely via ZOOM at 7:00 PM

No General Meeting is Scheduled For December……HAPPY HOLIDAYS.

January, 2022

11th, Tuesday, Board of Directors' Meeting remotely via ZOOM at 7:00 PM.

22nd Saturday, Bayland Park Community Center, General Meeting, Program, & Auction 8:00—11 AM
Program: To Be Announced
Donuts Coffee Juice and condiments.

ANNUAL MEMBERSHIP DUES ($20)

As previously discussed, we anticipated using the Oct. 2021 convention as the uniform renewal date for all members. With the postponement until March 4-5, 2022, the Board of Directors agreed to make the following adjustments to your renewal date:

- **Member in good standing as of July 1, 2021:**

    1. Membership expiration was extended to January 31, 2022
    2. In order to attend the March 2022 convention, you must renew, and the new expiration date of your membership expires a day prior to the next convention (2023 date TBA)

- **New members after July 1, 2021:**

    1. Membership expires the day before the 2023 convention (date TBA) and are eligible to attend the March 2022 convention with no additional membership dues)

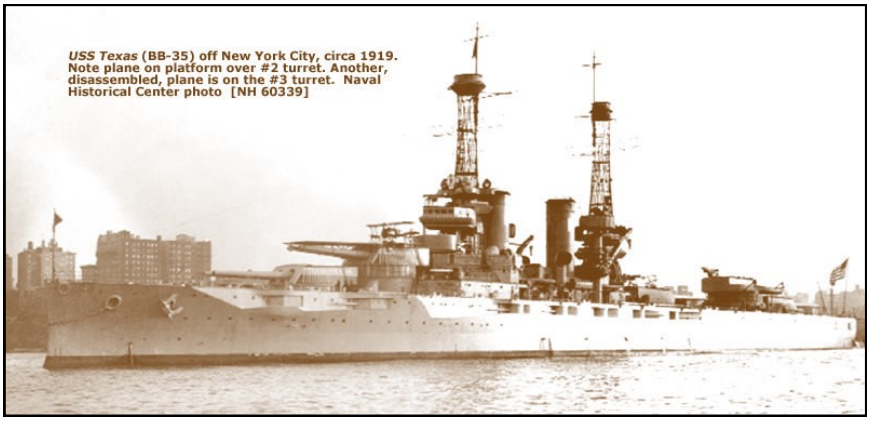
- **After the March 2022 convention, all members will be on a universal membership expiration date that expires the day prior to the 2023 convention date.**

If you have any questions concerning your membership status, renewal date, or bid numbers, please contact Brett Martin, HVRA Treasurer, at bmartin2021@gmail.com or 713-408-2505

For those needing a new membership renewal form, one can be downloaded from HVRA.org

HVRA welcomes our new Texas members :

Glenn Chamblin Katy	Kevin Jones Missouri City	Lance Kimmons Houston
Oscar Olsewski San Antonio	Joshua Polinan Houston	Martin Robinette San Antonio
Eric Reutelhuber League City	Howard Williams Katy	



From The President…….. Bill Werzner

As I sit here preparing my input for our last quarter "Grid Leak" of 2021, looking back over the previous three quarters, I know none of us can ignore the proverbial "ELEPHANT IN THE ROOM". This nasty COVID 19 virus has interrupted our plans for the year in ways we could not have imagined when it first came on to the scene. Fortunately, we are flexible and able to adapt when unforeseen situations like this arise, even when forced to sometimes make hasty decisions that not everyone likes. So, despite the external interferences, we intend to carry on with an attitude of "damn the torpedoes", get your shots, don your masks when necessary, let's go! I know some think that I have been carrying on like a broken record regarding this pandemic, but it has hit close to home these last few months, now three of my good friends from many years, all younger than me; have died from it, two in Illinois and one in Georgia.

Unfortunately we had to postpone our annual convention until March, 2022, which I feel was a wise precautionary move, but we have held several great swap meets (including Mike Payne's in Alvin), outdoor auctions, participated in the annual Texas City Hamfest, and held monthly meetings on schedule. Then in addition, our loyal volunteers secured several estates and currently have two storage units filled with all sorts of nice items for auctions to come. I think this in itself illustrates our resilience in dealing with challenging situations like this that confront us. We do plan to include, on our web site, photos of estate items that will be sold at future swap meet auctions, so please stay tuned!

Looking ahead from now through January next year, we have one regular meeting Oct. 23 at Bayland, but no more regular Saturday meetings until January 22, 2022. Holiday schedules will make it impossible for us to convene our regular fourth Saturday meetings at the Bayland Center, however we will hold Saturday morning swap meet / auctions in the rear parking lot at Electronic Parts Outlet on October 30, and again on December 4. We will sell members' items as well as those from estates in both auctions so watch our web site for auction manifests for both events. Fall weather can be unpredictable, so in the event of rain, these events may have to be postponed on short notice – watch for e mail bulletins should this become necessary. The Board is considering suggestions for a third large annual auction in another location, perhaps an American Legion somewhere in the Houston area, giving us three major auctions to keep our membership involved in maintaining their personal collections; again watch for any bulletins should this develop. I know this has been a rough year for many of us and I owe you all, my heartfelt gratitude and appreciation for your continued support. Now in this last quarter of 2021, I want to conclude by wishing you all, "a great Thanksgiving, Merry Christmas, Hanukkah, Kwanzaa, or whatever you choose. Above all, be safe and have a very Happy New Year!"

CONVENTION UPDATE: Preresgitration form on back of this Grid Leak

Due to the health risk brought about by the Covid-19 Delta strain, the Annual Convention, originally scheduled for October 1-2, 2021, has been rescheduled to March 4-5, 2022.

All who had room registrations with the Marriott should've had their reservations cancelled, and they should've been notified via email by the hotel as well. As soon as a new web-link is provided by the Marriott, for the new date, you will be notified by email and the *Grid Leak*. The room rate has been increased from $85 to $92, otherwise the terms of the contract are the same.

To those who already paid for convention registration and the banquet, if you wish to have your money returned please let me know, otherwise the registration will carry over to the new date, and no further action is needed.

Updated registration forms will be forthcoming for those who have not yet registered for the convention. Additional Convention information including activities, agenda, contests, and raffles will be sent out by email and posted on HVRA.org. As of this writing, the anticipated Friday Technical Program and the Saturday evening Awards Banquet guest speaker, remain the same

If you have any questions concerning the Convention, contact me, Lewis Brittain HVRA Vice President, at (cell) 713- 517-8722 or britfaml@juno.com

HVRA MEGA AUCTION

by Jerry Sirkin (GL Editor)

On Saturday, July 10, 2021, HVRA held its annual mid year Mega Auction , in conjunction with the Texas City Hamfest, at the Doyle Convention Center. Although our attendance was down this year, we had 39 attendees registered to bid and we added two new members to our roster. The revenue to the HVRA treasury was enough to offset all storage, transportation, facility and miscellaneous costs attributable to the auction and estates we are handling; so, a break even result is still a good deal since several members were able to re-vitalize their private collections with many interesting items.

This event was not without challenges which were met head on by several dedicated volunteers. You can always count on Bill to lay the groundwork and get us prepared for a successful event, including pre-auction set up and continuously challenging the bidding audience with a descriptive auctioneering style for each item. A big thanks goes to Steve Pena for providing the audio system. Lewis Brittain, and Jimmy Stewart assisted Bill with the auction activities while Joe Gernand, Abdullah Soliman, Stephen Truch, and Konrad Werzner kept feeding the hungry auction table. Treasurer Brett Martin, assisted by Ric Slater, kept the registration process on track and recorded the buyer and seller activities into the computer program resulting in a smooth transition from the auction activity thru the post auction pick up procedure. That pick up procedure was also successful due to the meticulous handling of the sold and passed items by Steve Pena, Abdullah Soliman, and Konrad Werzner. This entire Mega Auction was primarily shouldered by our Estate Coordinator, Steve Scheel. After tireless hours stocking (helped by Bill, Tom, Derek and others), maintaining the estate storage units, Steve took charge of all the selections and transportation requirements necessary to loading and traveling between the Gessner storage area and Texas City and back). Trial-by-fire…..yes, that's what it must have felt to new Board members Joe Gernand (Auction Chairman) and Brett Martin (Treasurer). Without much auction activity experience, both stepped up and took care of their responsibilities as if they had been doing them for years. (Apologies if I omitted any volunteers).

The auction preview area. Paper covering and protecting tables provided by Larry Mangione. Right photo shows new HVRA carts recommended and assembled by Derek Ross and Steve Scheel……..geee-rate idea.

Busy auction activities. Center photo—notice the tension in the room, you could cut it with a knife.

Freed Eisemann Model NR 20
Beautiful and clean, complete chassis.
Sold for only $60.00
(See What You Missed!)

SILENT KEY: Cecil Miles KF5YAJ

Obituary copied from Aiien Funeral Services Website

Private family memorial services for Cecil G. Miles Jr., 85, of Weches, will be held later. Mr. Miles Passed away Thursday, July 15, 2021, at home in Weches. Cecil was born October 1, 1935 in Jewett, Texas to Cecil G. Miles Sr. and Zella Irene Clute Miles. Cecil had lived in Weches for 21 years and had also lived in Houston for 30 years where he worked as a truck driver for Central Freight Lines. He was Baptist and had been the fire chief for the Weches Volunteer Fire Department for several years as well as a volunteer at Mission Tejas in Weches. Cecil is survived by his wife Frances Miles of Weches, daughters Robin Nell Adams of Texas City, Susan Denise Miles of Texas City and Cathy Jean Davis of Magnolia, son Joseph Wayne Miles of Camby, Indiana, brothers James Miles of Jewett and Eldon Miles of Security as well as numerous grandchildren and great grandchildren.

Cecil joined HVRA November, 1990.


Cecil (left) along with Lance Borden

Cecil and his wife, Fran, participated in many Annual Conventions as Old Equipment Contest participants and could also be found in the Contest Room assisting the Contest Chairmen and other members registering for the contest.

Cecil and Fran live in East Central Texas, south of Rusk and Palestine, where Cecil enjoyed showing his collections of vintage radios, automobiles and model railroads. He and Fran hosted several swap meets attended by both HVRA and VRPS members and always looked forward to showing them around his museum. Unfortunately, few years ago, a tornado destroyed the museum building and portions of their home, along with falling a tree onto Fran's car while she was trying to get back home . Over the last few years, Cecil spent most of his time restoring the home and working with local museums to donate and exhibit the remaining automobiles and railroad collections.

During the preparation of the July HVRA newsletter, I spoke to Cecil and he was looking forward to seeing everyone at the October Convention and entering our Old Equipment Contest. Cecil's smile, conversations, and friendship will be missed by all. Please join in sending condolences to Fran.

BATTLESHIP TEXAS UPDATES by Bill Werzner, HVRA President and USS Texas Volunteer

GENERAL CONDITIONS

I know some of you are curious about the future of the Battleship Texas so as a volunteer I can share with you what I know at this time:

- the ship remains closed to the public at the San Jacinto Battleground State Park in La Porte. It was briefly opened for limited tours the Fourth of July weekend and again on Labor Day weekend. I volunteered there for both of these events and overheard one suggestion that another limited reopening might occur sometime before Christmas.
- the leaks have been pretty well staunched using a special kind of foam that was pumped into the leaking torpedo blisters and some other areas. So, from around 1500 gpm being pumped to keep her afloat, that number is now reduced to around 5 gpm!
- Sometime after hurricane season has ended, plans are for the ship to be towed or transported to a shipyard in Galveston. There she will be placed inside a floating dry dock for the badly needed hull repairs for two to two and a half years. This move will likely occur sometime after the first of next year.
- I am happy to report that during the tours, the sound system work we did worked like a charm. Following repairs, we will probably continue its maintenance along with antennas, vintage radio repair and additional radio installations along with HAM club events on special occasions.
- No decision has been made yet as to where the ship will be located after the dry docking work is completed. Hopefully it will be returned to somewhere in this area.

I will attempt to keep everyone informed as things progress.

BATTLESHIP TEXAS UPDATES by Bill Werzner, HVRA President and USS Texas Volunteer (Continued)

HAM RADIO OPERATIONS

A couple of decades ago, HVRA's founding father, Frank Cooper along with others, petitioned the FCC for the Battleship USS Texas to have an operating HAM station. His request to reinstate the original call letters NADV was declined, but NA5DV was accepted as a replacement. Over the years, during annual Museum Ships Weekend events, and other events as well, operators went on the air at 20 and 40 meters from a ham shack on the second deck starboard, across from the gedunk stand (ship's soda fountain). None of the ship's original transmitters were used during these operations, however one or two of the original antennas were, in addition to an inverted "V" dipole antenna that was erected near the aft deck. In addition to many individual HAMS and historic ships contacted, shipboard visitors, scout groups, and others were introduced to HAM radio for the first time. One of the stories I remember was perhaps six or more years ago when contact was made with a HAM operator in Denmark; as I recall: The Texas was on 40 meters, using a 100 watt transmitter connected to a WW II era 30 foot vertical antenna. The transmitter in Denmark was far more powerful (I don't recall its wattage), but was connected to a very large antenna, and this was at night. The operator in Denmark could not understand how the Texas was putting out a signal as strong as his, as there was such a discrepancy between the two. The clincher came when he asked, "How is your 100 watt transmitter grounded there in Texas?" The answer sent was, "about 35 thousand tons of steel sitting in salt water!" That reply must have blown him away!

Now that I have shared the brief history of NA5DV with you, please share this with others as I have received numerous inquiries about the ship's radio operations. Regarding Main Radio room down on the second deck, two of the vintage receivers have been restored and are operational. None of the others have been examined except for quick check over with a Geiger counter for radium dials, of which no radioactive dials were found. I don't recall if this check was made in the main transmitter room. As for access for visitors, those areas are off limits even for this old volunteer and will remain as such as far as I know due to safety concerns. Many artifacts have been removed from the ship including antiaircraft guns and other artifacts.

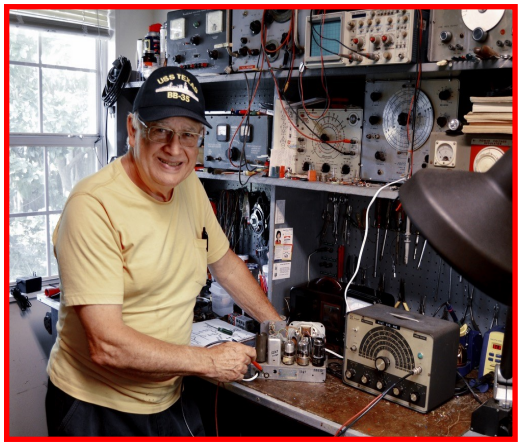
Bill Werzner in the Ward Room, 2nd Deck explaining armaments during tours on Labor Day Weekend 2021, wearing a Navy talkers helmet. Showing one of the 14 inch shells that when loaded, weighed around 1400 pounds with a range of about 13 miles. This 1912 warship has ten 14" guns, of which there are two, in each of five turrets. This ship served in both world wars, in both the Atlantic and Pacific.

This was a feature attraction during the partial reopening of the second deck on Labor day Weekend: a life size hologram of an actor who looked like the Battleship's Dr. Mc Cardle inside his quarters in officers' country. The plexiglass barrier blurred and distorted the photo of the image somewhat, but seeing it and listening to his description of D Day was awesome! It was like a life size ghost standing there and talking to you.

All readers are encouraged to go to: **battleshiptexas**.org/**battleship** and similar websites for additional historical and restoration information.

The Trouble Shooter

by Bill Werzner, USS Texas Volunteer



A Fortune Teller, A Battleship, A Restaurant, and an 80+ Year Old Sound System.

How did I get involved with an historic battleship – a ship I knew nothing about. Well as a starter, a fortune teller in Collinsville, Illinois read my palm in a night club called The Attic one night in early 1975. This lady, about my mother's age, ran a coat check at the club and, when I stopped by to pick up my overcoat, told me she could tell fortunes by reading palms. As a scientist, I naturally regarded palmistry as a joke. However, she asked to see my left hand; I complied when she said, "this is free". At that time, I had only been to Houston once and that was for a couple of days while I was in research for Shell Oil Company; again I knew nothing about the battleship or where I would be living in Houston later that year. Shell was closing the Wood River Research Laboratory in the fall and transferring everyone to their new consolidated laboratory called Westhollow on the west side of Houston. It was a sad and stressful time for many of us, especially for me. My younger brother and I moved into a condo not long after my wife's death. He wanted to go to the nightclub that evening and urged me to come along to possibly meet some new people and some of his friends.

The palmist began, "I see you have a very long lifeline, but you have suffered a tragedy". Now here is where it gets crazy, yes I had suffered a tragedy with my wife having died less than a year earlier, leaving me with a year old son, but then things turned really weird. She continued, "In your future you will be involved with a Chinese restaurant and (now brace yourself!); a big ship. A big ship I asked, half laughing, "what kind of a big ship?" Her answer was, "a big ship like a battleship!" My brother came downstairs from the ballroom and I told him about having my palm read by this lady whom I had never met before, and would never see again. We laughed about her prediction on our drive back to our condo late that cold evening. I said to my brother, "a Chinese restaurant no way, a battleship – that's too bizarre to even think about." Also note that she specifically said "involved with", not visit, go see, etc. I did not in any way attempt to go out of my way to fulfill either of her prophecies; that encounter was all but forgotten as I settled into my rented home in Houston in late August 1975.

The Chinese Restaurant

I bought my home in SW Houston the following year, a large ranch style from the mid 1950's where my wife and I live to this day. We live on a corner lot about a quarter acre in size, and adjoining our property is commercial property separated by a ten foot easement. Back then there was a two story office building on that lot that faced Chimney Rock Road. Around 1978, tenants began moving out and the place was becoming badly neglected. One day a sign near the building read "Chang's Property". My son who was now seven had been living with me for several years now and our neighbors were complaining about how the nearly abandoned building was becoming an eyesore. I told them if I ever see this Chang owner, I was going to give him a piece of my mind about his run down building. I did not have to wait very long for this to happen.

One hot afternoon I came home from work to find my back 130 foot long fence nearly collapsed from an enormous heap of old sheet rock, lumber, two by fours, etc., piled against it from the interior of the building that was being gutted inside. Having had a bad day at work, this was the last thing I needed. I assumed by the look of the workers, I would probably be lucky to find anyone who could speak English. If the wood fence were to give way in any section, both of my dogs would get loose and possibly bite someone. I relaxed at the kitchen table and drank a cold beer deciding what to do next. As I sat there enjoying my cold one and under the cool air conditioning, I decided I had to do something fast. One, I could try to communicate with the workers with what few Spanish words I knew, or two, find this Chang guy and first attempt to be diplomatic, or third, be a real a - - hole. I finished my beer and walked back to the parking lot where the trash was packed high against my old badly leaning fence.

In the parking lot driveway stood an Asian man who looked to be a little younger than me. I stopped, said hello, and asked him if he was perhaps the owner, Mr. Chang. Yes, he was the owner Mr. Paul Chang. He found the foreman of the demolition crew and told him to get the stuff away from my fence now! After the debris was removed Mr. Chang offered to replace my aging fence with a new one, but I explained that I was planning to have it replaced anyway. So, we struck up a friendship that endures to this day. As a do it yourselfer, doing AC work, plumbing, wiring, etc. his building became a part time occupation whenever something would break down.

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Fortune Teller, A Battleship, A Restaurant, and an 80+ Year Old Sound System (Continued from Previous Page)

Just prior to the grand opening, with help from my good friend and fellow HVRA officer Jerry Wallick, we installed the music and sound system. I did get involved (remember that word involved) with what became "The New Garden Chinese Restaurant." That was over forty years ago and during the 1980's HVRA held a number of dinner meetings, auctions, electronic classes, and parties there. I remember I wrote a letter to my mother who was still living in Southern Illinois not long after Paul, his family, and I became friends. In a letter my mother sent to me a short time later she wrote, "He might fix you up with a Chinese girlfriend!" Score another prediction that came true as Mingqi and I celebrated our wedding dinner in the restaurant in 1988.

The Battleship Texas

It must have been around 1998 when another strange incident happened. By then two more sons were added to our family and their cousin from China came to visit. I remember it was a Saturday and the boys wanted to go somewhere and show their cousin (my nephew) around. Let's go over and see the Battleship Texas and San Jacinto Monument I said. I didn't have to ask twice so we were on our way to La Porte. We arrived early at the ship just as the old ship's store opened to sell tickets. We were the first visitors on board and on the main deck a man about my age was cleaning one of the five inch guns. I had toured the ship a couple times before and knew a little bit about her incredible history. I paused and thanked the man for the job he was doing and he told me he was one of the volunteers who helped with the ship, and that he worked for Exxon Research in Baytown. I told him I was with Shell Research and that a good friend and business associate, Bob Botto also worked at Exxon. I don't remember this man's name as it has been so long now, but he knew Bob well. As we stood there talking I did not notice that someone had walked up behind me and was eavesdropping. I mentioned that we had a weekend business where we restored vintage phonographs and electronics and that we had gotten acquainted through the American Chemical Society years before. Suddenly I was startled by a heavy hand on my shoulder from the guy behind me who looked like a Texas State Trooper. His name was John Fergeson, a Texas Game Warden and U.S. Marine veteran. John turned, gave a loud whistle, and yelled, "Barry, here is the guy we've been looking for!"

Barry Ward was the ship manager if I remember his title back then. Together they explained how they wanted to restore the ship's sound system to make announcements and possibly play WW II era music on the ship. The next thing I remember was being outfitted with a hard hat and flashlight. I told the boys to go on their own and tour while I go down below with these guys and look at the vintage sound equipment. I won't go into details, but that trek through the radio rooms was fantastic. That day I was told that for a first priority we needed to get some of the 1MC units operating so emergency announcements could be made. I teamed up with two other ship volunteers, and one by one, over a period of several years, we made them operational. We used three 100 Watt solid state Bogen amplifiers to power those units around the ship. That task wasn't too difficult as the units themselves simply contained a line transformer connected to a heavy speaker. More 1 MC units were brought on line and then we added music along with a microphone input for announcements. We knew that some powerful mast speakers were connected to those lines too, but that was of minor concern to us then.

During one of our volunteers' meetings in the ship's dreadnaught room, a lady from the park service came in. She took the podium and said to our whole group, "We like what you're doing with the ship, but it is not appropriate to have "Boogie Woogie Bugle Boy of Company B" blasting over an 1836 battleground. Yes, those mast speakers were blasting all the way to the San Jacinto Monument! That put a temporary end to the music program. Back with the ship's staff we decided to try something else. Would it be possible to reactivate the old RBO system? I had opened a few of these units and was shocked at what I saw inside. All the tubes were missing and things were a terrible mess due to age and neglect. I guess I have to do at least one crazy thing a year so I took on the project of restoring an RBO from the officers Ward Room. A functioning RBO would each require an individual amplifier as sound levels around the ship vary greatly. Off to the drawing board I went, involved, (yes there is that word involved again) and committed to restore one to see if it could be done. After several designs and test modules, I settled upon a single tube type A amplifier design that well suited our purpose. During the following years five more were finished and put into service so now there are six of them that are operational. When the hull repairs are finished after few years, and my health holds, we will again be entertaining visitors with music from the past.

Now as the late Paul Harvey used to say at the conclusion of his news casts, "Now you know the rest of the story!" For this old guy, I will wonder until my dying day how a palm reader in Southern Illinois could have been so accurate with her prediction. Sometimes God comes to us in strange ways. In the Old Testament, God came to Moses in a burning bush to tell him of his future. How did a palm reader manage to foretell my future with such uncanny accuracy? It is a mystery that truly defies an explanation.

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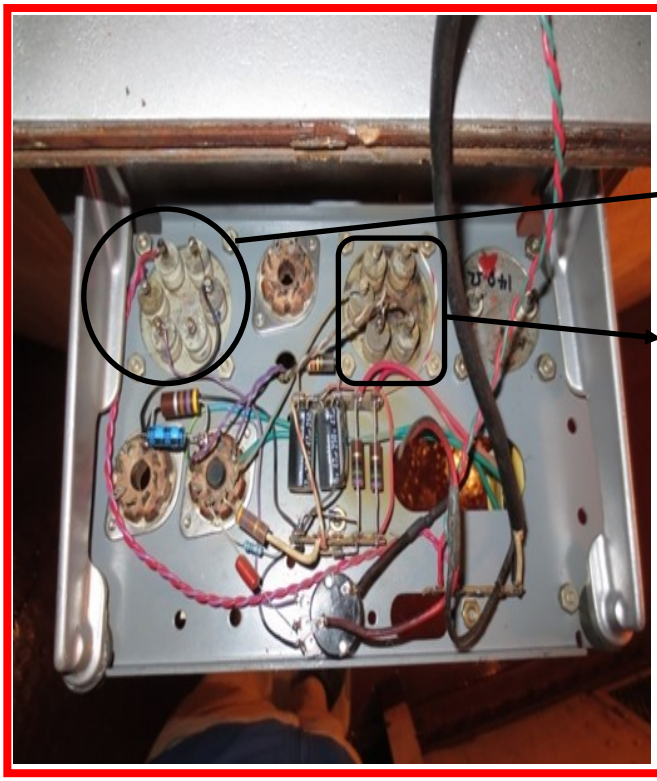
Fortune Teller, A Battleship, A Restaurant, and an 80+ Year Old Sound System (Continued from Previous Page)

Refurbished RBO on the second deck

This is one of six RBO units that have been restored thanks to donations from HVRA. These units had three channels for listening: One for ship board announcements, a second one for listening to records played from the main transmitter room, a third was used for piping in reception from on shore radio stations. These units could operate on AC or DC with the flip of a switch on the front panel. The tube layout included a 35Z5 rectifier, 12SQ7 audio amplifier, and one 35L6 output tube. The tubes were missing from every unit we opened, wiring had deteriorated with age, and capacitors were leaking. Internally, almost all components were removed, the chasses cleaned, and the enclosure bead blasted and repainted. A new circuit using a single 6V6 GT tube provided audio output amplification for the original speakers that were in surprisingly good condition despite their age. An LED powers the amber jewel.

Under chassis of the RBO prior to rebuild



This photo shows the under chassis wiring of the rebuilt RBO. The input audio transformer, top left picked up the signal from a 70.7 Volt network and the output transformer top center, both tested good and were put to use. A power transformer with a 6.3 V. filament and 125 V. high voltage winding was mounted on top of the chassis and wired as a voltage doubler circuit to supply B+ for the 6V6 plate and screen.

The top view of the rebuilt RBO is shown here. Two lugs in upper right are where the input from the 70.7 volt line signal will be connected. The new power transformer is on the left, and the black knob on the rear is for on / off & volume adjustment to the 6V6 GT. This was mounted inside the housing for obvious reasons – kid restrictions!

Joe Gernand, shown to the left, making his refinishing presentation during the August General Membership Meeting. This presentation led to the article shown below.

Philco 39-25 Case Refinishing by Joe Gernand

Let me preface this article by saying that there are nearly as many ways to restore a wooden radio case as there are people restoring radios. The techniques, tools and materials that I used in this case restoration are not the only way to accomplish a fine result. However, they worked for me on this restoration.

When removing the old damaged finish from a radio, some insight can be obtained into the processes and materials used by the original finishers. Examining and understanding what the original finishers did can provide useful information for your refinishing efforts.

The Philco 39-25 radio in the figures below is a good example of a straight forward refinishing example. A quick test of rubbing the existing finish with some lacquer thinner and a paper towel, showed that the finish was, as expected, lacquer.

Old Finish Before Removal

Detail of Old Finish

Finish Removal Tools

Finish removal

Since the existing finish has been verified as lacquer, its removal couldn't be simpler. All that was needed was some scraping, lacquer thinner, paper towels, chemical resistant gloves, and a respirator. Rubbing the surface with paper towels saturated with lacquer thinner was all that was needed to remove the old finish, though some light scraping sped up the process. After removing a few layers of lacquer, the decals rubbed off as well. It took several more passes with the thinner and paper towels to get it down to the base surface. Once all of the lacquer (both clear and black) had been removed, all that was left were a light walnut stain and pore filler. To me this implied that the base stain color was mixed with an oil/silica-based filler and they were fully cured before the lacquer was applied. After the lacquer had been removed it was also evident that the stain and wood filler were in good shape and provided a smooth base for refinishing and little sanding was required.

Continued on Next Page

Philco 39-25 Case Refinishing by Joe Gernand (Continued)

Finishing

With the old finish removed and the case cleaned and dry, 3 coats semi-gloss lacquer were sprayed on, then let dry overnight, and another 3 the next day. I let these coats continue to dry in the house for a couple of days. Lacquer is an evaporative finish and will continue to shrink as it dries so letting it dry for several days between steps will reduce shrinkage later.

After the initial coats had dried, the sections to be black lacquered were masked off and either sprayed or hand painted. I made black lacquer using Deft semi-gloss clear wood finish and Transtint dark walnut die. I sprayed the black lacquer with the Preval Spray bottle on the larger areas and used a brush for the edges of the speaker grill. I let this all harden for a few days. With the lacquer now fairly well cured I wet sanded with 400 grit paper and green scotch brite pad to level and smooth the finish.

Finish Application

Black Lacquer Application

Finish Leveling

After leveling and smoothing the new decals were applied and allowed to dry. I got the decals from Radio Daze LLC. Three more coats of lacquer were applied over the decals to lock them in under a protective layer of lacquer. I allowed all of this too dry for several days before reassembled the radio.

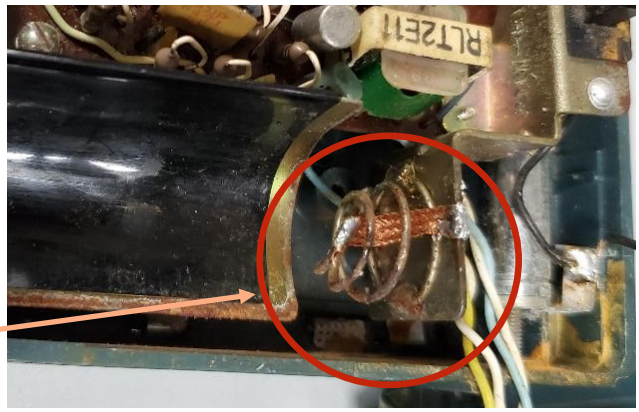
A HANDY BATTERY HOLDER KINK

by John Given AF5SD

In a box of radios from a recent auction I found a National Panasonic R230J. It was a 2 band AM/SW (5.25-19 MC) made from 1965-1968. It had 10 transistors (2 of which operate a tuning indicator light). It still had its leather case which protected it from the ravages of time and use; it looked pretty good. It was dead as a hammer. I got a few pops and crackles.

The batteries (3 Cs) had leaked. Cleaning up the battery holder made it pop and crackle louder. Cleaning up the intermittent volume control and band and tone switches made it play better, but still intermittently.

Spinning the batteries in the holder revealed the problem. A little deoxid contact cleaner and some 600 grit sandpaper cleaned up positive button, but the negative spring was corroded to junk.



I soldered a piece of small braid (desoldering braid is perfect) to the spring's cadmium plated mounting ear, threaded it down the center of the spring and looped and soldered around the end of the spring. Had there been more of the spring left, I would have strapped across the diameter at the small end of the spring. Unfortunately, it was broken off short of the end coil.

This little bit of surgery made the radio play reliably. It has a long ferrite and a rf stage, plus a whip for shortwave. WWV popped in loudly at 10 and 15, good strident Cuban propaganda blasted in over the local QRM at 6, lots of sounds at 20 and 40 meters (no bfo).

Dial calibration was surprisingly good for a 55-year-old portable. Just a little TLC and I've got myself a neat little radio.

Radio Diagnostics by the Numbers
By Tom Taylor
Part 3 Intermediate Frequencies (IF) Stages

Next in our series is a radio stage known as the Intermediate Frequency section where a frequency is in transition from one broadcasted to one we can hear. We choose in this text to define that section as circuitry from the 'mixer' AKA first detector to the better known detector AKA second detector. Refer to diagrams at end of this article.

The mixer stage is where the incoming signal of interest is mixed with an oscillator signal generally higher in frequency to produce two more signals one being the difference of the oscillator and the signal of interest. Parallel Inductor/Capacitor, LC, tuned components right at the output of that mixer assure that not only does the oscillator run in cadence with the tuned signal but that the desired difference signal is primarily the only one passed to subsequent IF stages where it is confronted with bandwidth restrictions of the first IF transformer. The take-away of this text is that IF stages provide the highest signal gain in the radio as well as the greatest selectivity, the ability to separate adjacent stations. These stages work with signal levels in the millivolt area and typically draw very low current of the order of 10ma like that of the mixer. Its high selectivity is a product of the bandwidth in IF transformers as provided by two parallel L/C, pairs within each that are built with high Q characteristics. Here the electronic parameter Q or quality, a figure of merit, is negatively affected by circuit resistance and has a direct correlation to bandwidth by a formula. The all so common 'All American Five' radios generally have just one amplifying IF stage with IF transformers on either side for a total of 4 L/C pairs. Radio circuit optimization in several areas has allowed a competitively priced appliance with one power tube and only four signal conditioning tubes to not only receive our local transmitters but also pick up strong signals from around the world. Superior radios such as those required for communications frequently use two tube IF amplifying stages necessitating another IF transformer while retaining the unique output transformer just prior to the second detector. This output transformer has a lower output impedance (comprised of pure inductive reactance and a resistance) in the winding facing the detector. Internal construction of such a transformer requires proper installation in the radio for optimal performance and it would not be your first choice to use it at other IF stage locations.

With regard to the correct installation of IF transformers you must note that those from about the mid 30s have color coded wire leads for a reason. As you might expect the red wire is for B + and the blue lead connects to the plate of the prior stage. The green wire is for the control grid of the next amplifying stage and the black wire goes to the Automatic Gain Control/Automatic Volume Control, AGC/AVC, (serving control grids) or ground reference for that following stage. Similarly the smaller cans with solderable leads frequently have an indexing or keyed indicator such as a dot of red paint to facilitate proper installation. Keep that in mind when you deal with problem IF circuit areas.

IF transformers with the traits of two LC pairs are low cost although they are not as good as might be needed just off their tuned frequency, in an area called the skirts of their frequency vs. loss performance curve. Consider that the FCC allows AM broadcasts to take place just 10KHz from one another so that a selected weak local signal at 1510KHz might not hold up well next to a strong but distant signal at 1520 KHz. One way this contention has been addressed is not through radio design but through the use of directional antennas and power reduction in the evenings when HF propagation picks up. IF transformers, with simple L/C pairs simply can not offer in any way the selectivity that alternatives like crystal filters, mechanical filters and Digital Signal Processors, DSP, can offer with their much steeper suppression of adjacent channel interference found just off their assigned frequency.

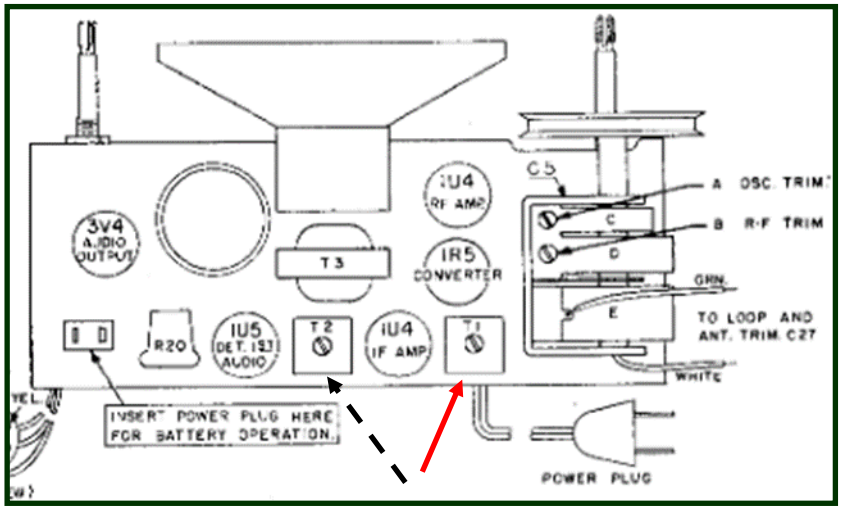
Among other considerations are tubes used in the IF stage which are chosen for their high gain, their relatively high internal plate resistance and also their low interelectrode capacitance which tends to progressively attenuate frequencies higher than audio. Typically, they may also have an internal control grid construction which allows tube gain to be changed with small DC voltage changes to the control grid. Those tubes are called the remote cutoff with a larger nonlinear control characteristic or the sharp cutoff with a smaller more linear control of gain for about the same grid voltage change.

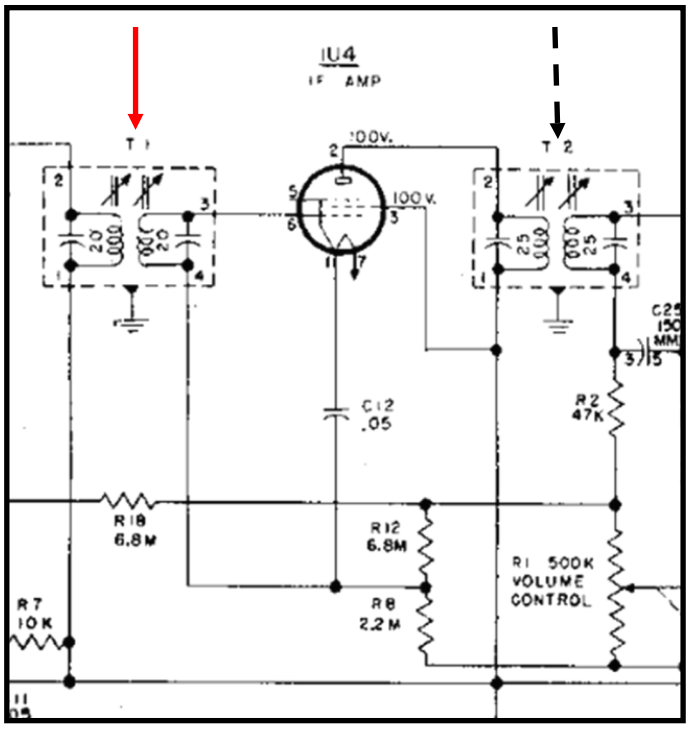
Continued on Next Page

Part 3 Intermediate Frequencies (IF) Stages by Tom Taylor (Continued)

In either case the AGC or AVC provision of radios developed after the early 30s derived a DC voltage at the second detector which is fed back to earlier control grid circuitry via a high value resistance typically > 500K ohm to charge a capacitor typically larger than about 0.03 uFd. That slightly negative DC control voltage is used to throttle these 'cutoff' tubes in the IF stages and on occasion even an RF amplifier. Typical tubes for IF stages are 6SK7, 12BA6, 6K7, 1F7, 1LN5, 1U4, 6AG5, 6AU6, 6D6, 24A, 35, 58 and 78 the choice depending on things like available filament voltage, series or parallel filament string, and the type of sockets in use.

Most often the tuning of this stage is satisfactorily performed by peaking transformers while using a signal generator set to the center frequency and modulated to an audio frequency like 400 Hz so you can hear the tone in a speaker and obtain best awareness. If there is no generator modulation you could monitor the negative AGC/AVC voltage level or noise quieting at the speaker to determine a signal peak. Once this stage is peaked you need to listen to the audio quality while tuning across a few stations because peak tuning can noticeably reduce signal bandwidth and therefore the ability to attain a natural voice. Slight detuning is the remedy and you won't miss the slight loss in gain. One last word, a Beat Frequency Oscillator, BFO, producing no modulation can be added to this stage to mix or beat with a broken incoming IF carrier at 455 KHz for instance to produce an audible tone that we hear as Continuous Wave, CW.





A Story of Feathers by Tom Taylor

We have all heard the greeting question 'how have you been'. Perhaps there are few more accurate responses than "Some Days Chicken, Some Days Feathers". In today's world this response should be self explanatory and it seems fitting to describe a recent experience with a Majestic 300A chassis destined to reside in a beautifully refinished cabinet.

The chassis in question arrives DOA with a history of prior services by well experienced technicians followed by a brief history of satisfactory performance. Its new owner requests on its arrival something similar to 'just make it work where I can hear it'.

Exams of the chassis bottom with the schematic provided soon reveals wiring differences and a replacement of the original phase inverter tube stage with an interstage transformer to drive the two output 47s. While this was a satisfactory repair option and its implementation appeared fine, the audio stage just did not work. The next investigative task undertaken was to determine what if anything was beneficial about a factory one tube "Suppressor" circuit next to the first audio driver. Question: Why would you amplify just to suppress?? Recalling the goal was to get sound out of the radio not to necessarily restore it, some study was necessary to determine how that stage worked, if it was needed and even better, how the repair task could be simplified by getting rid of it. I mean Wazupwidat approach anyway? The next problem soon identified was the open volume control followed soon thereafter by the retention of a factory plate load resistor where the interstage transformer plate lead was now connected. Effectively killing stage gain this split decision required resolution. Further checks highlighted the push pull output transformer providing 305 VDC to one output plate and about 255 VDC to the other suggested shorted windings on one side; a condition that was put aside for the moment and until optimization was required. Perhaps the biggest road block to proper operation in this stage was an improper bias on those outputs caused by one of two open segments in an 8 inch power resistor dividing the supply B+ up for most every stage in the radio. Two of the segments that remained 'good' had increased in value which forced corrective steps all along its length. Blimey! Once that area was rebuilt and the other items above dealt with we had a working audio stage with a questionable output transformer.

Next was the IF stage. Close exam in this area turns up another one of those Bakelite tube sockets which had been deformed enough to allow insertion of a six pin tube clocked one pin over, i.e. three large filament pin locations not two. Additional installation options here are just not welcomed. Had I looked for it, a cool unlighted tube would be the red flag needed. Once this was found all other sockets were assumed suspects so an inspection of all locations was undertaken as well as the task of brushing and spraying with DOxit all tube pins while they were exposed. Trust me on that one. No other clocked tube instances were found. The one location found was corrected by placing a colored nail polish dot on both the socket and the tube base permitting a visual indication of proper alignment. Go to any nail salon and ask for bright unpopular colors and they often gift them if they haven't already been tossed. Powering up the radio at this point allowed use of the IF stage and an opportunity to check its alignment which needed a tug from left field. Once corrected we heard a peculiar squealing condition when tuning stations that was reminiscent of poor bypass capacitors or unwanted coupling that allowed minor stage feedback. Seeing this radio had an EXCESS of dark almost black wire leads all in a bundle wrapped around one half of the chassis, several wires serving the IF stages were shortened and separated to reduce some of that chance coupling. While taking on that task one of the stage decoupling capacitors was found smaller in value than the schematic indicated. Following correction of those an alignment signal was provided to obtain a pretty fair and more natural tone from the speaker. Invigorated by this alignment step the Ant, RF and Osc trimmers were checked to find a bit more adjustment needs. Ggggrief!! What a crippled up old chassis!

At some point of moving this chassis around for service, several tubes exhibited not just willingness but a desire to fall out of their sockets probably due to years of hopeful troubleshooting. Tube socket pins were then bent back to help their retention, a task that makes you hold your breath sometimes. You break that metal contact and you drill out a socket for its replacement. Oil provided near moving part interfaces was met with expected rewards. Noticing that most of the dog bone resistors had either been shunted for restoration of factory value or replaced it was time to find any that had been overlooked. This radio still needed more gain. Two such culprits were found hidden from normal viewing and dealt with. (Continued on Next Page)

A Story of Feathers by Tom Taylor (Continued)

At about this point a reconnection of the antenna wire seemed worthwhile and I was rewarded with AM stations on frequency albeit a little shy despite the volume control being turned full up. Feeling depleted and weary of this battle along with few options remaining short of using the now defunct 'Suppressor' stage for another audio amplifier, I talked to the owner about its state of completion and it was decided to hand it back for evaluation before my planned travel out of state. During his call a price was offered somewhat based on the radio's inability to drive that big speaker into discomfort followed by construction of a listing of the service steps performed. Note to Tom. The next time I first revisit the service experience to make the list THEN come up with a service price….. At his arrival I was both embarrassed and rewarded when we found that all prior connections of the antenna wire were at the radio's ground terminal, not at the factory designated antenna terminal about an inch away. What can I say? Just not as young as I once was. NO, lets go with 'things look different on a chassis bottom side'.
Oh yes, time permitting I want to try a pair of silicon diodes for replacement of that untested G4S diode rectifier AKA 'Hen's Tooth', 'Snake Leg', 'Mouse Wing' that was in production a little over a year.

<u>This is a follow-up to the previous article: A Story of Feathers by Tom Taylor</u>

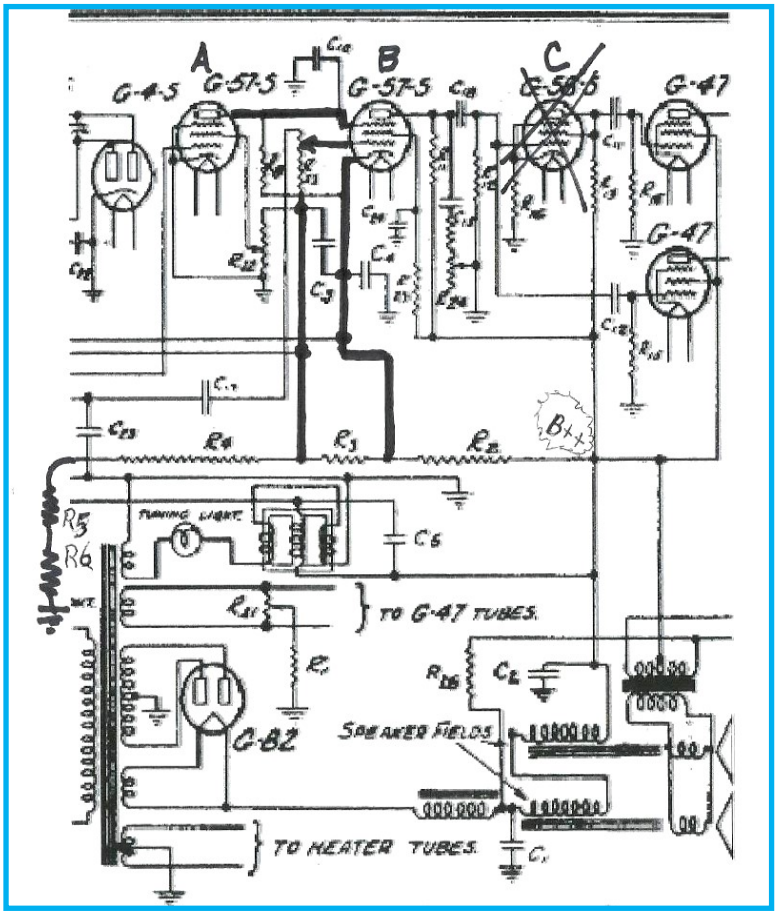
<u>Majestic 300A Driver</u>

There was a most unusual circuitry applied to the first audio tube driving that replacement interstage transformer. The control grid voltage at the grid cap on top was about 165 volts once most of the big voltage divider resistor issues were corrected. With 305 volts on the plate and about 275 on the screen grid there was some resemblance of order even though the stage didn't work at all. A look to the tube manual indicated a required bias of 3 volts. That is to say the control grid needed to be 3 volts less than the cathode instead of the 7 volts differential. Gotcha. Shunting a portion of the big voltage divider gave needed bias and an operational audio stage. See the schematic.

Tube A is the suppressor grid control?

Tube B has about 165 VDC on its control grid via R3

Tube C now drives an interstage transformer



2022 ANNUAL CONVENTION

OLD EQUIPMENT CONTEST

Contest Chairman Tom Taylor

NOW is actually the time for the (final) selecting and planning of your convention contest entries. Your board members have voted to adopt Atwater Kent and all its related products as our focus. With memories of 2020 soon to be behind us there may come a time when you consider what have you to show for that segment of your life. One thing is for certain, the realities of normal life including an HVRA Annual Convention will return with the chance for such an assessment as you sit in the convention auction. Knowing that, I need to clear my conscience and help you put your radio exhibiting contest goal in perspective.

2022 OLD EQUIPMENT CONTEST CATEGORIES

1. Wireless/Spark Equipment
2. Crystal Receivers and Related Crystal Equipment
3. 1920s Battery Receivers
4. Cathedrals, Tombstones and Consoles (wood)
5. Table Receivers, Tube (wood)
6. Table Receivers, Tube (non-wood)
7. Transistor or other Portable Radios
8. "Modern" Electronics, 1980's to the present Electronic Equipment and Electronica {Examples include vintage computers, "modern" radio equipment and recent unique electronic and computing items}
9. Phonographs, Speakers, Reproducers, Microphones
10. Miscellaneous Vintage Electrical Equipment (Examples include Telephones, Telegraph, Scientific Test Equipment, Electrical Devices and Television)
11. Kit Radios and Equipment (At Least 10 Yrs. Old)
12. Hi-Fidelity Equipment
13. Amateur Radio Equipment (At Least 10 Yrs. Old)
14. Military Electrical and Electronic Equipment
15. Replicas and Vintage Style Creations
16. Foreign Radios
17. **Special Convention Theme**: Atwater Kent and all items carrying the manufacturer's name
18. Components, including Vacuum Tubes
19. Open Display

Your judges will look for these items and I believe its in the order shown

Is it Rare

- Is it rare for this contest category?
- Was the Manufacturer short lived?
- Is it rare for this manufacturer?
- Is it a rare example of this model number?

Documentation

What is unique about your exhibit? Is it the materials used, perhaps something about the chosen wood, its construction or the electronic design which was preceded and then followed by what circuit features? Where was it built, for how many years? Was there a famous owner in its past or was it known by a "nick name"? …...perhaps…...the "Nick Knack" radio. At minimum, you should include information that identifies the radio manufacturer and model, the year built, and what is special about this radio or set of radios. Most award winning displays and exhibited items use a card or some other display device that shows the key information about the radio or item on display. Generally speaking, more documentation is better than no documentation.

Cosmetics

Is it clean and unblemished with all the correct 'as built' knobs and trinkets? BTW, missing trinkets will cost you every time. Have you stooped to use of Polyurethane or excesses of sand paper?

Functionality

Only in the event of a tie will this become of interest so put your efforts elsewhere if a ribbon and one of the remaining, highly coveted, budget straining, walnut plaques is your goal.

Buy, Sell, Trade, & Services Offered

Vintage Sounds

Vintage Sounds islocated in the Market Place Antique Center, 10910 Katy Freeway, Houston, they service and repair vintage phonographs, radios, telephones, in addition to selling phonograph records, radios, phonographs, telephones, vacuum tubes, books, light bulbs, parts, and so much more.
Open Friday, Saturday, and Sunday 10 AM - 6 PM. HVRA members 10% discount on radio items.
(713) 468-4911 www.vintagesoundshouston.com

Borden Radio Company website: http://www.xtalman.com Antique Radio Schematic Service included in web-site. Crystal radio kits for sale. (281) 620 – 6692

Sargent Auction Service: www.sargentauction.com, Jims@sargentauction.com Jim Sargent, WA5QBR, Auctioneer, TX license 16135 Location: 200 Thomas Road, Granbury TX 76049

Allen Speaker Service: Speaker re-coning and repair, 919 W.19th St. Houston, (713) 862-2747.

Tom Granger Restorations, radio and phono cabinets. (281) 338 - 8277 (www.tomgranger@mac.com)

Ace Electronics: 3210 Antoine Drive Houston, TX 77092 713-688-8114 (www.ace4parts.com)

Electronic Parts Outlet (EPO): 3753 B Fondren Rd Houston, TX 77063 713-784-0140 (www.epohouston.com)

Free radio: I have a Remler 89 free to a new home. Pickup in Navasota.
Contact George Wilder **radiodoc@comcast.net** or call 1-630-334-3232 (cell)

Wanted:

Wanted: Atwater Kent Model 36 radio with matching type "Y" power supply in working condition. Will purchase either early or late versions (or both if available).
Wanted: Atwater Kent Model K speaker in working condition
Contact: Jerry Sirkin 281-844-4124; gsirkin@aol.com.

Other Radio Related Activities

Texas Broadcast Museum: 416 E. Main Street in Kilgore, TX. Phone:903-984-8115. There are hundreds of pieces of vintage paraphernalia related to radio and TV broadcasting. Admission is $6.00 ($5.00 for seniors and military vets).

Edington Family Museum of Atwater-Kent Radios: 550 Roosevelt in Silsbee, TX. Please contact Jimmy Edington for appointment at 337-476-4328 (atwaterkentsrus@gmail.com). Jimmy, a long-time collector and original HVRA member, has re-purposed a beautifully restored hotel to display his outstanding collection of Atwater-Kent radios and related products. See his website, www.atwaterkentsrus.com.

More Radio Clubs

Delaware Valley Historic Radio Club www.dvhrc.com

Oklahoma Vintage Radio Collectors (OKVRC) President: Jim Collings, PO Box 50625, Midwest City, OK jcradio@cox.net; $15 annual dues. Monthly meetings, annual show.

Antique Radio Club of Illinois (ARCI) www.clubinfo@antique-radio.org

Collins Radio Association (CRA). David Knepper, PO Box 34, Sidman, PA 15955. No dues. www.collinsra.org

Michigan Antique Radio Club (MARC). Don Colbert, MARC, Pub: The Michigan Antique Radio Chronicle, quarterly. Dues: $20. membership@michiganantiqueradio.org. Annual Extravaganza and other quarterly meets. www.michiganantiqueradio.org .

New Mexico Radio Collectors Club (NMRCC). Monthly newsletter and members meeting (with flea market, auction and theme program). Dues: $20. For more information contact John Anthes, jpanthes@comcast.net Club website: http://newmexicoradiocollectorsclub.com

Texas Antique Radio Club (TARC), Doug Wright, Canyon Lake, TX. wrightdouglas70@yahoo.com

Vintage Radio and Phonograph Society (VRPS), Dallas / Ft. Worth, TX. George Potter vrps@sbcglobal.net, website: www.vrps.org

Texas Panhandle Vintage Radio Society (TPVRS). Contact: Elroy A. Heras, 4086 Business Park Dr., Amarillo, TX 79110

Canadian Vintage Radios Society (CVRS) Contact Gerry O'Hara 226 Dallas Road Victoria V8V1A5 Canada (gerrycohara@gmail.com) 604-671-6062; CVRS Website: canadianvintageradios.com

HVRA 2022 ANNUAL CONVENTION REGISTRATION and MEMBERSHIP FORM

(For Questions Please Contact Lewis Brittain at 713-517-8722 or britfaml@juno.com)

Last Name: _____ First Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: (____)_____ Ham Call: _____

E-mail: _____

All Bidders and Sellers Must Register and Be Active HVRA Members

Mar. 4 – 5, 2022 Houston Marriott North	NUMBER	AMOUNT
Advance Registration: ** $15 (Postmarked by 2/15/2022)		$
On-Site Registration: ** $20		$
**Annual Membership $20: (3/1/2022 – 2/28/2023) NEW		$
**Annual Membership $20: (3/1/2022 – 2/28/2023) RENEWAL		$
Awards Banquet Dinner: Sat. Mar. 5 @ 6:30pm	::::::::::	::::::::::::::::::
Chicken Dinner: $30 per Adult		$
Child Plate (12 and under): $15.00		$
Vegetarian Dinner – $30.00 per Adult		$
Vegetarian Dinner - $15.00 per Child		$
Swap Meet: 1st Table Free ; Additional Tables - $10 each; Any member needing a table(s) must contact Lewis prior to Feb. 20		$
Grand Totals	::::::::::	$

- ****Only One Registration Required Per Family (One Bidder Number)**
- **HVRA Commissions: Individual Sellers at 15%**
- **Estates Sales Commissions Pending Pre-Convention Agreements**
- **Buyers and Sellers Settlements at Conclusion of Each Day's Auction Activities (Numerical Order)**

Fri. evening & Sat. lunch cash concessions? Yes___ Number: _____ No: _____ Unsure: _____

ADVANCE REGISTRATION: CHECKS, PAYABLE TO HOUSTON VINTAGE RADIO ASSOCIATION (HVRA), or CASH MUST BE POSTMARKED BY FEBRUARY 15, 2022 to:

Lewis Brittain 3722 Xenophon Dr. Houston, TX 77082

ON-SITE: AFTER FEB. 15, 2022, BRING REGISTRATION FORM AND CHECK/CASH TO CONVENTION

HVRA USE ONLY:

DATE RECEIVED: _____ CHECK NUMBER: _____ CASH: _____

REGISTRATION (BIDDER) NUMBER: _____