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THE HORN SPF



(Continued from last month.)

BROADCASTING THE BIG BANDS

By Paul C. Crum

One of the most "interesting" experiences that I had while broadcasting the big bands. occurred when I had the doubtful honor of putting the Ted Fiorito band on the air its first night from the old Morrison Hotel. The fact Sophie Tucker, 'The last of the Red Hot Mamas,' (Whose temper seemed to be the only part of her that had not cooled appreciately at that stage in her life) headlined the stage show, did little to establish a relaxed mood of all of us in her sphere of influence, and may have contributed to the event that followed.

Relatively new at the station, I soon got broken in very dramatically. The first night patrons of such a well known supper club paid well, and expected tangible return on their considerable investment. One act on stage that night as a sort of supporting act for the great Sophie, was a brother-sister dance team, John and Edna something or other. seeing that the stage show was running over, I covered my bets by getting instruction from the studio to put out the microphones. even if the floor show were not over. The main microphone of the upcoming broadcast was a large RCA 44 ribbon microphone of the type in common studio use at the time. We were due to feed the network within a few minutes and it was generally believed that several dozen stations expecting to hear a dance

band, would be at least slightly annoyed at being told they would have to wait while some guy and his sister were dancing around the stage of the Morrison Hotel. Apparently neither Fiorito nor the dance team concurred in this opinion. When I dragged the big iron stand for the 44 out on the stage, during their act - in full center of the spotlight - leader Fiorito protested in the colorful language of those persons who come from the southern part of Europe. generally known as "the boot."

Even though, as I have admitted, I have been less than successful in impressing lovelies of the other gender, the girl in the dance team impressed me as being downright unfriendly, and growled at me in a decidedly unladylike fashion to get off the floor. Even at that youthful age. I had enough experience with unhappy members of the other gender to realize one could not always please these delightful persons and was not too concerned about her unfriendliness, that is, until I returned to the tiny control room backstage.

As I leaned over to check my amplifier a short time later, I felt a sudden and violent slap. first to the right side of my head. then to the left. A series of these followed in rapid succession.

Fortunately for me, this delicate thing was much better in her chosen profession, than with her fisticuffs. In an earlier life that could not be described as being completely non-controversial, it has been my lot to have been "involved" in several encounters in which the manly art of protecting myself by physical means was required and I found this particular engagement rather less unpleasant than most of these had been. Actual physical damage was much less than in several of these encounters that I remember, and she had the nicest perfume!

This experience proved to have had a much greater and more lasting effect on this band leader than I had realized. Several months later when I was setting up his band for a stand at the Blackhawk Restaurant, I noticed him sitting at the piano studying me almost clinically. With an air of quiet resign - almost of supplication he told me of an effect I do not recall having had on any other person. Quietly he said, "Do you know that every time I look at you. I get so that I can't play the piano?"

Certainly, one of the most mixed up microphone setups among our remotes was at this restaurant. Although it was one of our popular pickups, it seemed that if for some reason a piece of equipment were not any place else, it ended up at the Blackhawk. If four microphones were required, it was probable that no two were of the same type. None of the equipment in service at this time was particularly noted for its reliability. In the description of present day guarantees of performance, none of this electronic conglomeration could qualify for the seven year warranty. One memorable night I came close to recommending Joe Sanders, the Old Left Hander, for Sainthood. Band leaders, like people, come in the good, the bad and the ugly classifications. Joe had to be the most patient and forgiving of all band leaders.

This night, with sixty stations on our back, my luck ran out. A first dead mike was soon followed by another. A recounting of the several reasons for their failure, was a litanty of well known electronic ills. The number two microphone had barely gone to its resting place, when the third joined its fellows. Admittedly not the smartest remote engineer, I found it very difficult to provide a balanced pickup with only one microphone operating and that located between the first saxophone and the drum. Of only casual interest to the overall, the vocalist had to sit in a low chair to be in line with the one remaining mike. While I was "sweating bullets" trying to stay on the air, Joe remained calm, will be all right. I'll sing so loud they can hear me without a microphone! Demonstrating his technique, he swung into his favorite, "Here comes my ball and, chain," singing so loudly that I almost believed they could.

With a clear channel and a power of 50,000 watts at one of the best spots on the broadcast band, our coverage, particularly at night when we were broadcasting the big bands, was "adequate." A number of musicians, whose families lived in California, were listened to directly. Naturally, the number of stations carrying the bands and local conditions at the time were factors in our coverage. We were fortunate in that we were Chicago headquarters for a network of more than five hundred stations.

Our eastern network lines ran in a circle from Chicago to Detroit, New York, Washington, D. C., Cincinnati and back to Chicago. This circuit was called the Round Robin. Any station feeding this circuit, had to open the line before the next feed took over or a feedback occured. A single line went from our Chicago switching



Rudy's birthday party at the Astor Roof, 1936, with famous orchestra leaders as his guests. He is shaking hands with Horace Heidt; Ben Bernie and cigar is between them; others include Hal Kemp, Fred Waring, Shep Field, Buddy Clark, Russ Morgan, Jerry Cooper, and Jack Smith.

it is evident that he was our

favorite of all of the many band

with his indicated basic decency.

life in an active and interesting

he had a rugged ability to live

leaders with whom we worked. Along

point westward to Los Angeles. Being one way only at a time, this line required reversing manually at Chicago when changing the direction of feed. Later after having been graduated from the happy world of dance band remote pickups and assigned to master control, it was my job to do this switching of these programs as they were originated from, or passed through, Chicago. At Los Angeles, or 'West Coast Leg," joined a network that ran along the entire west coast. called the Don Lee Network. Various random feeds came into and were fed saying, 'Take it easy, everything ..., from, or local circuits. Most older , ., persons remember the Lone Ranger program. It came from Detroit by a special temporary feed that required setting it up ahead of time and switching it when time came for it to air. An article that presumably recounts the broadcasting of the big bands. obviously does not have space for a detailed description of either network organization, or studio broadcasting, which must be included in another type article.

From my numerous accounts of our experiences with Joe Sanders,

manner. A powerful raw boned man who had turned down an opportunity to play professional baseball to continue with his music, he looked as if he would be as much at home in a bar room brawl as at his piano. Joe was like father to the various band members and his vocalist. He was always good for a loan, if someone in the band were short before pay day. If his girl vocalists were bothered by one of her numerous admirers, joe settled these matters without difficulty. The girl singer who was with his band during his stay at the Blackhawk, was endowed with physical proportions that equaled her vocal ability. These proportions seemed to peak in that general area known as her "latter part." When draped in an attractive manner, this tended to excite every virile male with normal eyesight within her range. One night as she approached the microphone for her number, a patron, weakened by a number of belts before going on the dance floor, was overcome by an understandable, but imprudent desire. As he danced by the stage, he reached out and patted this especially attractive part of the young woman we have been discussing. Ever watchful over his brood, Joe strongly indicated this was definitely forbidden territory. and warned that he should never again encroach on this area. All men are weak upon occasion,

especially when they are affected

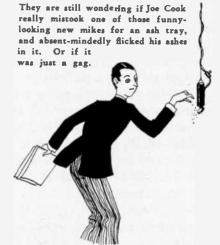
man had imbibed.

by those inspiring liquids that the

On his next trip by the stage. discretion was completely overcome by temptation and he stole an additional pat. Rising briefly from the piano. Joe took the patron by the collar with his left hand and by the seat of his pants with his right, and bounced him across the dance floor and out the door. He returned to the piano and commented casually to the engineer on duty. "Sometimes you have to do those things!"

The next to the last pickup of one autumn evening over, I walked back leisurely across the loop to the Palmer House for my broadcast from the Empire room. The flowing champagne music at the Trianon Ballroom that seemed to still carry me along with it, and the din of the terrace Room Supper Club, all swirled around together in my mind. that had still not quite unwound.

In the corner of the Empire Room check room, behind long lines of coats, I picked up new B batteries for the pre amp for the RCA ribbon mike that we would use for the "band" mike on the Ted Weems Orchestra that opened that night. This was one of my favorite bands, slightly smaller than some. but good. Very good. It was made up of a group of happy go lucky guys who, although all class when on stage, in keeping with the atmosphere of the place, were possessed with a natural exuberance that made this one of my favorite groups. Generally proper and restrained, I waited for a moment when I knew the band would explode into a sort of cow bell cacophony with their "Fifth Avenue" hill billy number, "The Martins and the Coys." The caution with which it had been tried out to find how the patrons of such a room would react,



proved unnecessary and it almost became the signature number of the band. Toward the end of the broadcast, the band played quieter numbers and a ballad usually preceded the theme. A quiet, nice young singer was the vocalist. When he began to sing, dancers crowded up near the microphone. Young girls, still clinging to their dated, looked up longingly and older women looked approvingly at the "nice young man," they felt they wanted to mother. All of us who worked with him felt that if he were given the opportunity, he would go on to greater things. His name was Perry Como.

Ingi, the leggy blonde, was perched on a tall stool rubbing a tired foot, as I went through the check room. The long flowing scarlet robe that was the uniform of these girls, was raised revealing a shapely limb that I had not had the privilege of enjoying before. "I think I've carried a million coats tonight," she said. "I used to be a distance runner in high school, but that was nothing as compared to this."

I patted her shoulder and assured her she'd make it. She looked up and smiled. "You never did make it up to my apartment, did you?" We both smiled. I was glad that we were off the air and looked foward to getting in to my new DeSoto that I had gotten just two days before, and go home. It was the long, low car with the hidden headlights one couldn't see until I pulled the handle inside the car that raised the covers from over the lenses and the lights came on. It was the first new car that I had owned, and I remembered soberly



that I had eighteen monthly payments of thirty three dollars each, to make before it was all mine.

As I went out the heavy revolving door of the studio building, starting for home after sign off, I glanced back briefly at the corridors, dark now until morning, and reflected on the things of the evenings. The rattling "L" ride out to the Trianon Ballroom on the south side, for lawrence Welk. The ride back to the Morrison— the one pickup where I never knew what might come next. It might be equipment trouble or a drunk trying to get on the air with the vocalist. Or a fight backstage. A pickup like this made one really appreciate the one that I had just finished.

When I got home, I knew Lora would have a big roast beef — or maybe a ham and cheese — sandwich, neatly wrapped in waxed paper to keep it fresh, just as she had each night of the year and a half that we had been married. She would be sleeping.

I wondered - just brieflyy how I had ever gotten into the crazy world of broadcasting the big bands. The racing from a night club to a ballroom half way across town. Or a hotel alongside the loop. Coaxing moody amplifiers, balanced on top of boxes loaded with dry batteries. And getting slapped around by a girl dancer (the one with the nice perfume).

I guess it was like Joe Sanders - the Old Left Hander said when he bounced the drunk across the dance floor and out into Wabash Avenue, "Sometimes, you have to do those things."

Correction— At the beginning of this article in September it mentioned that Cole Porter wrote "Stardust", no, Mitchell Parish wrote it.

Many thanks to Paul Crum, W9LC, who had many favorable comments about the first half of this article, for writing BROADCASTING THE BIG BANDS. We are sure that many more good comments will be made about this second half.

Paul C. Crum 6272 North Cicero Avenue Chicago, Illinois 60646

On the Air
by durell roth

A few days ago. I read an article in a national magazine for retired people that dealt with radio and radio programs in years past. The author was reminiscing about the first radio his family owned and how he remembered the day his father brought the set home.

I think that most of us have fond memories of early radio shows and maybe even remember the family's first radio. I can't remember our first set, but the first one I do remember was a Zenith table set, a radio-phonograph combination that Mom kept in the kitchen. During supper we would listen to the six o'clock news. Later there would usually be some program of interest, so Mom and Pop would sit around the kitchen table, have a snack, and "watch" the radio.

When I was about ten years old I remember listening to an evening show--I think it was called Fireside Theater--that opened with the sound of a horse-drawn carriage pulling up in front of a theater and the

You would hear the theater door open as we went inside and again the announcer "... ah, there's a warm fire in the fireplace, let's take our seats and enjoy tonight's performance".

announcer saying"...here we are, let's buy our tickets and go inside". The announcer would always buy two tickets. you would hear the theater door open as we went inside and again the announcer ah, there's a warm fire in the fireplace, let's take our seats and enjoy tonight's Those were performance". warm, comfortable evenings around the radio with only occasional comments from the family during the show

Daytime listening around my house consisted mainly of Arthur Godfrey, Art Linkletter's House Party and various soap operas, although I didn't hear many of them unless I was home from school. On Saturdays, I listened to kid's shows like Big John and Sparky, The Lone Ranger and similar programs.

Sometime in the fourties, my dad got a small white

bakelite radio of unknown manufacture that he kept in his bedroom and occasionally transferred to the workshop where we'd listen to the Saturday Night Barn Dance and Cook's Hoedown Club live and direct from downtown Houston.

The real prize of a radio in our family came to us when I was about twelve. It was a two-tube battery set that was my Dad's family radio and was used in a farmhouse on the plains of Nebraska near the small town of Shickley Although I was extremely happy to have the radio in my younger years, it didn't mean as much to me then as it does now. Thank goodness Pop stored the set for me until a few years ago! The radio is an RCA Radiola III. 1923 vintage, now fully restored, still being used to drive the same headphones my dad used and still receiving some of the same stations it received back

When the radio was used in the 'twenties, it sat on a small table in a corner of the living room connected to batteries on the floor and an outside aerial and ground. The aerial was several hundred feet long, running

from the radio up to the second floor eves of the farmhouse out to the top of the windmill tower and down to the barn roof. The ground was a car axle buried just outside the living room window.

In those days there were comparatively few signals on the air, and in the country near Shickley only two stations were consistently heard: the most popular KMMJ in Clay Center and another forty miles to the north in York. When the weather was cold and at night when local stations signed off, signals from other parts of the country could often be heard: at the time the best DX was KOA in Denver, Colorado.

Today, a special power supply replaces the batteries, and I use a small indoor aerial connected exactly as outlined in the original owner's manual. The set, being fully restored, receives all the local stations, has very good fidelity and, even with marginal conditions, will received most of the popular stations around the country, including WLS (Chicago), WSM (Nashville) and KOA in mile-high Denver.

Shooting Trouble

With Trouble-Shooters' Key and Appendix

By I. R. TANNEHILL

HE usual day's business in the radio dealer's shop is about as follows:

An elderly gentleman is looking at the variable condensers. He is thinking of mounting his set on top of a three-quarter-inch oak table and wants a condenser with shaft long enough to mount

BE SURE YOUR TELEPHONES ARE CONNECTED TO SET

the dial above the board and the condenser below. He hears a mushy sound in his telephones, like a cow pulling its foot out of the mud. He wants to know what the cause of it is.

A small boy has 30 cents left for antenna and crystal. He intends to put the aerial 20' high in the back yard and is now getting local stations on the third tap. Where will he hear them with the new antenna? He has been using the bed springs.

A lady, leading a small child by the hand, enters and breaks into the conversation. Her 10-year-old son bought a set here last week and he hasn't heard farther than Pittsburgh, distance 700 miles. Her neighbor hears Les Angeles, distance 2.500 miles, on one bulb with a storage battery, and he says a peanut tube is no good. What is the cause of that awful whistling noise every evening from eight to nine-thirty on three hundred and sixty meters?

While she is talking, the child removes

While she is talking, the child removes the caps from three storage batteries and drops two cigarette ends into one of the

rops two cigarette ends into the dealer giving out ten dollars' worth of advice and instruction with each ten-cent purchase. The climax is reached when the proud father of the small boy appears and brags about the knowledge of his son concerning radio admitting freely, however, that he, the father, is not so well informed. His son has sent him for a new what-you-may-callit for the doojigger. When questioned, he states that the gadget that turns the whiffletit on the left-hand side of the box is loose and that the boy asked him to drop in amd get a thingembob, you know, one of those round dingbats that sort of grips the dickel-

station at least 1,000 miles away, the dealer gets his apparatus back in a hurry.

And after all, these troubles

And after all, these troubles come naturally in an industry that requires every listener to act as his own central and repair staff. Where else can a person find out what causes that whistle or grunt or roar or knock in his set except by bothering some other radio fan or a dealer?

When a person attempts to act as his own doctor or lawyer, he secures a book or set of books covering symptoms or practices or decisions and classifies his troubles and goes systematically after the solution.

So, in radio, one must systematize his own trouble shooting activities and profit by his past experiences, properly classified and arranged for ready reference.

for ready reference.

As an example, the writer has arranged a key to trouble. The troubles are classified and the causes and remedies are classified. the causes and remedies are classified. The key is used as follows. Look in the key and locate your trouble by its characteristics. For example, if you hear a popping sound in your detector circuit and said sound is not affected by tuning, you will find it in Division B, subdivision 6, which refers you to the Trouble-shooters Appendix, where, under reference dix, where, under reference numbers quoted in the key, you will find your trouble and the remedy, unless the remedy is obvious obvious.

As a preliminary precaution, always be sure your antenna and ground are connected, see that your tube is in its socket and lighted, and that your tele-

and lighted, and that your telephones are connected to the set. There is nothing more exasperating than to hunt for trouble for two hours with your set dead and then discover that your phone tips are lying on the Boor and had not been connected to the set.

Next, test all batteries and the phones. Noises are not due to battery trouble, but weak signals and dead circuits are usually traceable to battery weakness. Telephones frequently get out of order, usually through an open circuit, and there is no use swearing an open circuit, and there is no use swearing

whoop. He finally gets it and goes away satisfied.

This is one of the peculiarities of radio. The telephone company employs experts in communication and a corps of trouble shooters and "hello" girls to assist you in talking to a friend a mile away, but with radio it is different. If father can't assemble the bulbs and sockets and other whatnots in about an hour and establish unbroken communication with a station at least 1,000 miles away, the dealer gets his apparatus back in a hurry.

And after all, these troubles

at the set when it will not produce signals in a pair of dead phones.

Having determined to your entire satisfaction that your trouble is more complex and involved than those mentioned above, proceed to the key. Carefully locate your trouble in the proper classification, and then, having been referred to each of several numbers in the Trouble-shooters' appendix, examine your set in a critical frame of mind and see if one of these references doesn't hat the nail on the head. If it doesn't and you find out what it is, list it and classify it and preserve it for reference.

TROUBLE-SHOOTERS' KEY

A. No signals, no noises. Weak signals,

No signals, no noises. Weak signals,

A. No signals, no noises. Weak signals, no noises.

a. No signals in detector circuit. No noise. 2, 3, 4, 13, 29, 32, 39, 41.

b. Amplifiers dead or weak with good signals in detector. 3, 5, 14, 15, 29.

c. Signals in detector weak. 1, 2, 4, 6, 7, 13, 29, 32, 34, 35.

B. With knocking, scraping, scratching, or popping sounds in the detector circuit.

a. Noises affected by tuning, 9, 17, 18, 21, 25, 26, 30, 31.

b. Noises not affected by tuning. 11, 12, 13, 25, 26, 28, 30, 31, 38, 41.



C. Knocking, scraping, scratching or pop-C. Knocking, scraping, scratching or popping sounds in amplifier circuit, but not in detector. Turn filament of detector off and listen in on amplifiers. If knocking continues it is in the amplifier units. 5, 12, 27, 41. D. Howls, hisses, squeals, whistles and grunts in detector circuit.

a. That are affected by tuning. 17, 18, 19, 21, 26, 40.

b. That are not affected by tuning. 3, 6, 20, 21, 26.

E. Howls, hisses, squeals, whistles, and grunts in amplifiers. 16, 23, 24, 41.
F. Humming or buzzing sounds. 22, 33,

34, 36, 37. Unsteady or wavering signals. 8, 9, 10. 12, 25.

TROUBLE-SHOOTERS' APPENDIX

Tickler coil connections reversed, no regeneration; remedy, reverse coil or

Batteries run down. 3. Tube not making proper contact with socket terminals.
4. Polarity of battery reversed.
5. Transformer burned out.
6. Grid condenser shorted.

7. Aerial or ground disconnected. 8. Coils loose and vibrating, causing unsteady signals by varying induction between

coils.

9. Too low capacity in antenna, regeneration is difficult to control at extremely low capacities; where 11- or 13-plate condensers are used in antenna and set is unstable, place f.xed condenser of capacity .00025 in parallel.

10. Rain causes leaks off aerial, etc., mak-

ing signals unsteady.

11. Poor connections to aerial or ground.
12. Defective rheostat and unsteady fila-

ment current.
13. Telephone windings broken or burned

14. Storage battery capable of delivering current to detector tube, but drain on battery from amplifiers is sufficient to reduce voltage on detector filament below, critical point

15. Lighting amplifier tubes, after adjusting detector, throws detector tube out of adjustment when operated on same hattery;

adjustment when operated on same hattery; always tune in on detector with amplifiers lighted, if same battery is used.

16. Primary of transformer reversed.
17. Too much "B" battery voltage on detector plate.
18. Too much inductance in tickler coil.
19. Too high grid leak resistance.
20. Plate leads torching grid condenser or its leads or near them.
21. Excessive detector filament voltage.
22. Ground and plate leads parallel and close together. close together.

23. Cause of howling in stages in excess of two is difficult to assign. Good remedy is placing of fixed condenser of capacity .001 across secondary of last transformer.

24. Transformers too close together.

25. Tube oscillating internittently due to

poor connections to antenna or ground, is often a difficult trouble to locate. the antenna of ground (whichever connection is defective) is removed, the noise ceases, leading the operator to believe that of fact, the breaking of his antenna or ground connection through poor contact changes his wave-length intermittently and the set ceases to oscillate and then breaks over again with a popping or knocking sound.

sound.

20. Excessive grid charge. Detector tube paralyzed. This may result in a howl of any pitch from a shrill whistle down to a sow knocking sound, at intervals of 10 to 20 per second, depending upon time interval of recovery and paralysis. Remedy, decrease flament voltage, loosen tickler coupling, or decrease plate inductance and lower the grid leak resistance. leak resistance.

leak resistance.

27. Moisture in transformer shorting between turns or layers. In this case the noise may be heard with primary of transformer, telephones and battery in series. Remedye place transformer in oven and dry out at moderately high temperature and impregnate with paraffin,

28. Plate and grid coil leads interchanged, with "B" battery shorted to negative filament. This produces a terrific knocking.

29. Phone condenser shorted.

30. Dust, etc., between plates of variable

29. Phone condenser shorted.
30. Dust, etc., between plates of variable condenser. When the antenna condenser is shorted, a knock or click occurs as the train of oscillations in receiver is stopped with

of oscillations in receiver is stopped with increase of wave-length.

31. Getting fingers against metal parts connected to oscillating circuit while tuning.

32. Primary circuit not tuned.

33. Grid condenser on bottom of cabinet or resting on table may pick up vibrations or hum from light circuit.

34. Grid coil disconnected.

35. Tube oscillating below critical filament temperature. It is often the case (more frequently than generally supposed) that weak signals are due to the set oscillating weak signals are due to the set oscillation. that weak signals are due to the set oscillatthat weak signals are due to the set oscillating below critical filament temperature, thus making it necessary to reduce the temperature too low in order to clear the signals. Some tubes oscillate much more readily than others. This condition is proved by increasing temperature above oscillating point when signals will increase in audibility, but become more and more distorted. Remedy, less plate inductance, less "B" battery, higher antenna canacity, lower phone because antenna capacity, lower phone by-pass

antenna capacity. lower phone by-pass capacity.

30. The majority of humming sounds originate in the plate circuit and are caused by using hook-ups where the plate is directly connected to aerial or by a faulty connection causing leaks from plate circuit to ground. Where a very close coupling is necessary between plate and grid coils to produce maximum resequeration humming sounds are imum regeneration humming sounds are more pronounced,

more pronounced,

37. After charging storage battery from a home charger, a decided hum is picked up from light circuit if the charging leads remain connected to battery.

38. Knocking sounds that cannot be tuned out and that are not received with antenna and ground disconnected are usually static. Remedy, commit suicide.

39. Bank wound coils made at home are frequently wound and are frequently

often improperly wound and are frequently absolutely dead in the receiving circuit. Do not use home-made bank wound coils unless you understand method of winding.

40. Steady whistling notes that disappear

you understand method of winding.

40. Steady whistling notes that disappear but do not change pitch with tuning are due either to two broadcasters on the same wave or to your neighbor listening in to rotten music with his set oscillating. Remedy, go over to his house and offer to show him how to tune his set and get kicked out. Otherwise you can substitute a 5-watt tube for your detector, put 100 volts on the plate and tune in on the same station with your set oscillating, and slightly out of phase. This will discourage him in about five minutes and he will listen to something else.

41. Poor connections and worn apparatus in general. Occasionally it is well to pull the set apart and rewire it. The results are sometimes surprising.



THE AERIOLA GRAND

RADIO CORPORATION OF AMERICA

OPERATING INSTRUCTIONS FOR AERIOLA GRAND

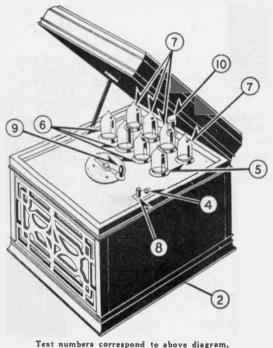
Numbers Correspond with Diagram

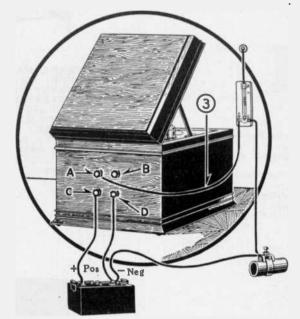
No. 1. First, refer to accompanying sketch, then erect antenna and place protective device in position as described on page 56.

No. 2. Place Aeriola Grand on table or stand and connect wire as shown herewith. The two wires connecting the Aeriola Grand to the protecting device should be separated by at least one foot. No. 18 rubber-covered wire may be used for connections. The rubber covering on each end should be carefully removed and the wire scraped with a knife until bright. The clean bare wire should then be placed under the terminal caps and these caps screwed tightly into position.

No. 3. The wire from terminal R of the protective device connecting to terminal A of the Aeriola Grand should be removed and connected to terminal B when signals below 350 meters are desired.

No. 4. Press the black button of the snap switch, thus disconnecting the battery.





Illustrating easy method of connecting aerial ground and filament storage battery.

No. 5. Insert Model WR-21-D Aeriotron detector tube into the right hand front socket so that stamped trade mark is facing toward front of cabinet. Tube should be pressed firmly into socket.

No. 6. Insert three Model WR-21-A Aerio-

tron amplifier tubes in the remaining front

sockets.

No. 7. Insert four Model WB-800 ballast tubes in rear sockets. Be sure that pins register with holes and press firmly into

8. Press red button of snap switch (4) clear down. All Aeriotron filaments should now be lighted. No.

No. 9. Slowly rotate tuning handle over the scale until sound is loudest.

No. 10. This plug should be used to replace the front left-hand tube if the broadcasting station is so near as to make the sound abnormally loud.

Caution: Always press black button of snap switch (4) when not using instrument, as this conserves battery energy.

Complete Aeriola Grand Broadcasting Receiver, Model RG, and Mahogany Stand, 150-550 meters, with six volt Storage Battery, Model 6HR-9, Rectigon Battery Charger

and Receiving Antenna Equipment..... \$325.00 \$350.00 \$35.00

Dimensions: Receiver Cabinet, 21 in. x 171/2 in. x 141/2 in. Stand, 313/4 in. high x 223/4 in. x 193/4 in.

NOTE: For Prices of other Complete Receiver Combinations, see page 35.



N January 3, 1930, David Sarnoff was elected president of the Radio Corporation of America, one of the highest honors conferable in the radio world. His career, from his very entrance into industrial life, has run parallel with the vast expansion of radio communications throughout the world. Still a young man—barely thirty-nine years of age—he has directed, as general manager of the R. C. A., the operating activities of the first American owned and operated system of wireless communication. Later, as vice-president and subsequently as executive vice-president of the company, he helped to organize and shape a great develop-mental program in electrical communications that brought the

radio industry to the forefront of industrial achievement.

Born in Southern Russia, Mr. Sarnoff came to America as an immigrant with his parents when he was only a child. When he was fifteen he secured a position as an office boy with the Marconi Wireless Telegraph Company of America. This was the beginning of his meteoric rise to eminence in the radio field. He became commercial department manager of the Marconi company and in 1919, general manager of the R. C. A. With the first faint rise of the broadcasting art in the United States. Sarnoff saw the apportunity for the development of a

States, Sarnoff saw the opportunity for the development of a



DAVID SARNOFF

new service and a new industry. pioneer experience in the art aided in the program of industrial and patent mobilization that made it possible for the United States to assume an im-mediate and leading position, not only in international wireless communications, but in the new industry that broadcasting had brought into being.

He was a leading figure in the organization of a permanent broadcasting service, improved broadcasting programs, and the acquirement of more talent and national coverage. In David Sarnoff became president of RCA Photophone, Inc. negotiations later resulted in the formation of the Radio-Victor Corporation and the General Motors Radio Corporation.

Weights: Net 50 lbs.; Shipping 70 lbs., with Stand 140 lbs.

His contributions to radio have been tremendous. He has been a vital and significant factor in the molding of the radio world in its present form, and, considering his past achievements. R. C. A. may consider itself fortunate indeed to have such a man as David Sarnoff at its head.

SPEAKER FROM SWEDEN

Bengt Svensson from Skaerholmen. Sweden is scheduled to speak at the coming Vintage Radio and Phonograph Society / Antique Wireless Association 1987 Convention in the Dallas area. He plans to talk about the last of a great transmitter in wireless history, the Alexanderson transmitter. Interested? See the V.R.P.S. layout.

\$409.50

(Concluded from last month.)



TRADE NAME: Wells Receiver.

MODEL: 24.

TYPE: One radio, detector and two audio.

TUBES: Four.

BATTERIES: None furnished.

CONTROLS: Two.

AERIAL: Outside or inside.

PRICE: \$70.00 without accessories.

MANUFACTURER'S NAME: Wells manufacturing Co.

TRADE NAME: Wells Receiver.

MODEL: 25.

TYPE: One radio, detector and two audio.

TUBES: Four.

BATTERIES: None furnished.

CONTROLS: Two.

AERIAL: Outside or inside.

PRICE: \$65.00 without accessories.

MANUFACTURER'S NAME: Wells Manufacturing Co.



TRADE NAME: "Workrite."
MODEL: Airmaster.
TYPE: Neutrodyne.
TUBES: Five.
BATTERIES: "A" and "B" needed.
CONTROLS: Three.
AERIALS: Inside or outside.
PRICE: \$120,00 without accessories.
MANUFACTURER'S NAME: Workrite Mfg.
Company.



TRADE NAME: "Workrite Chum."
TYPE: Reflexed Neutrodyne.
TUBES: Three UV-199.
BATTERIES: Compartment in cabinet for
"A" and "B" batteries.
CONTROLS: Two.
AERIAL: Inside or outside.
PRICE: \$65.00 without accessories.
MANUFACTURER'S NAME: Workrite Mfg.
Company. Company.





TRADE NAME: "Workrite Aristrocrat."
TYPE: Neutrodyne with built-in loud speaker.
TUBES: Five.
BATTERIES: Compartment in cabinet for
"A" and "B" batteries.
CONTROLS: Three.
AERIAL: Inside or outside.
PRICE: \$350.00 without accessories, but with
loud speaker. loud speaker.

MANUFACTURER'S NAME: Workrite Mig.



TRADE NAME: "Workrite."

MODEL: Radio King.

TYPE: Neutrodyne with built-in loud speaker.

TUBES: Five.

BATTERIS: "A" and "B" needed.

CONTROLS: Three.

AERIAL: Inside or outside.

PRICE: \$180.00 without accessories.

MANUFACTURER'S NAME: Workrite Mig.

Company.





TRADE NAME: Zenth.

MODEL: Super 8.

TVPE: Two stages tuned radio frequency, detector and three audio.

TUBES: Six.

BATTERIES: None furnished.

CONTROLS: Two.

AERIAL: Indoor or outdoor.

PRICE: \$250.00 without accessories.

MANUFACTURER'S NAME: Zenith Radio Corp.



TRADE NAME: Wright.

MODEL: 5A.

TYPE: Tuned radio frequency, detector and audio frequency.

TUBES: Five.

BATTERIES: "A," "B" and "C" furnished.

CONTROLS: Three.

AERIAL: Outside or inside.

PRICE: \$160.00 including tubes and batteries.

MANUFACTURER'S NAME: H. Earle

Wright.

TRADE NAME: Zenith.
MODEL: Three R.
TYPE: Regenerative detector and three audio frequency.
TUBES: Four.
BATTERIFS: None furnished.
CONTROLS: Two.
LOOP: Outdoor or indoor.
PRICE: \$160.00 without accessories.
MANUFACTURER'S NAME: Zenith Radio Corp.

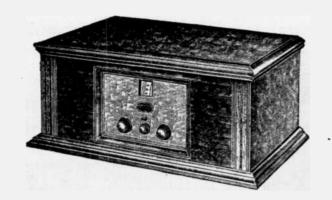


FRADE NAME: Zenith.
MODEL: Super 9.
TYPE: Builtin loud speaker.
TUBES. Six.
BATTERIES: None furnished.
CONTROLS: Two.
AERIAL: Indoor or outdoor.
PRICE: \$350.00 without accessories.
WANUFACTURER'S NAME: Zenith Radio



TRADE NAME: Zenith.
MODEL: Super 10.
TYPE: Built in loud speaker and battery TYPE: Built in loud speaker and battery climinator.
TUBES. Six.
BATTERIES: House current employed.
CONTROLS: Two.
AERIAL: Indoor or outdoor.
PRICE: \$550.00.
WANUFACTURER'S NAME: Zenith Radio Corp.





1930 CLEARTONE model 112 has a solid walnut cabinet and uses a 210 tube.



Illustration Shows Console Model
With Doors Closed



Illustration Shows Console Model With Doors Open



APEX AC A200M, 1927 Model 36 inside



APEX AC A400D, 1927 Model 36 inside



NC-100A — complete with tubes. AC model — 10" List Price, \$200.00 speaker in cabinet. Battery model — 8" speaker in cabinet. List Price, 184.17

NC-100XA — complete with tubes and crystal filter. AC model — 10" speaker. List Price, \$237.50
Battery model — 8" speaker in cabinet. List Price, 221.67

NC-100SA — complete with tubes. AC model — 12" Rola G-12 Speaker. List Price, \$222.50

NC-100XSA — complete with tubes and crystal filter. AC model — 12" Rola G-12 Speaker. List Price, \$260.00

NC-101X — complete with tubes. AC model — 10" speaker in cabinet. List Price, \$215.00 Battery model — 8" speaker in cabinet. List Price, 200.00

NDC-10 — Metal Cabinet for 10" speaker, same finish as List Price, \$6.00

NDC-8 — Metal Cabinet for 8" speaker, same finish as List Price, \$5.00 receiver.

Note: Cabinets for 12" speaker chassis cannot be supplied. RRA Relay Rack Adapters, designed for mounting any of the above receivers in a standard relay rack.

List Price, per pair, \$2.50

Note: 230 volt 50 cycle and 115 volt 25 cycle models of above receivers available at slightly higher price.

Shipping weights: NC100A, 70 lbs. — NC100XA, 71 lbs. — NC101X, 71 lbs.

NATIONAL NC-100A NC-100XA

NC-101X NC-101XA

These 11 tube superheterodyne receivers are self-contained (except for the speaker) in a table model cabinet that is readily adapted to relay rack mounting. One stage of R.F. and two stages of I.F. are used. Low loss insulation and high-Q coils give ample sensitivity and selectivity. Separate R.F. and Audio Gain Controls and a signal strength meter are mounted on the panel. Other controls are tone, CW

Oscillator, AVC with amplified and delayed action, a B+ switch, and a phone jack. A self-contained power supply provides all necessary voltages including speaker field excitation. The range changing system is unique

speaker field excitation. The range changing system is unique in that it combines the mechanical convenience of a coil switch with the electrical efficiency of plug-in coils.

The NC-100A, illustrated above, covers the range from 540 KC to 30 MC. The large full vision dial is calibrated directly in megacycles and a separate high speed vernier scale provides high precision in logging. The NC-100XA is similar but equipped with a crystal filter.

The NC-101X, illustrated below, is built strictly for the amateur bands and covers only the following ranges: 1.7–2.05 MC, 3.5–4.0 MC, 7.0–7.3 MC, 14.0–14.4 MC, and 28.0–30.0 MC. The NC-101X is equipped with a crystal filter, S-meter, and the PW type instrument dial.

The NC-101XA has the same features as the NC-101X,

The NC-101XA has the same features as the NC-101X, except for the direct reading dial and the cabinet, which

are similar to the NC-100XA. Prices are the same as for the NC-101X.

The battery models use 9 tubes. Power output of AC model 10 watts, battery model 2 watts.





NC-80X — complete with tubes, crystal filter, 8" PM speaker, in cabinet for 115v. AC or DC. List Price, \$165.00

NC-81X — Ameteur Model, complete with tubes, crystal filter, 8"
PM speaker, etc. for 115v. AC or DC. List Price, \$165.00

Note: Either of the above receivers can be supplied modified for Battery Operation 6v. heater, 135v. 8-supply. To order, add "B" to symbol number. List prices are the same as the corresponding AC-DC

Shipping Weights: NC-80X, 44 lbs. — NC-81X, 45 lbs. — Speaker in cabinet, 15 lbs.

NATIONAL

This inexpensive receiver has exceptional operating characteristics. Ten tubes are used in a high gain superheterodyne circuit. The IF amplifier is of entirely new design, operating at a frequency of 1560 KC, and providing a high order of image suppression, better, in fact, than that obtainable in many receivers having elaborate preselectors.

The crystal filter (2nd IF stage) has continuously variable selectivity from 400 cycles to 5 KC. The range of the phasing circuit (heterodyne elimination) has been similarly extended.

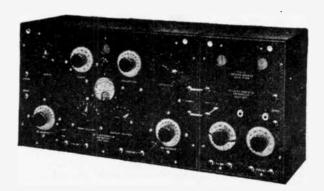
The tuning system employs a multiple scale dial of the full-vision type, accurately calibrated in megacycles. RF and IF circuits are air dielectric condenser tuned.

condenser tuned.

Automatic plug-in coils are used, controlled by a knob on the front panel, as in the NC-100. The frequency coverage is continuous, except / for a small gap at 1560 kc., from 550 kc. to 30 mc., in four ranges.

The NC-81X is a special amateur model covering the following bands only: 1.7-2.05 mc., 3:5-4.0 mc., 7.0-7.3 mc., 14.0-14.4 mc. and 28-30 mc. The dial is calibrated in megacycles.

The NC-80X receiver can be furnished at \$10.00 list additional price with either a special high frequency (30-45 mc.) range or a low frequency range (200-550 kc.) in place of one of the standard ranges. When ordering, specify which standard range is to be omitted for the special range.



Interesting to compare the classic quality of two sets spread 17 years apart. This Kennedy Universal 110 was made in 1922 for \$250.00. The National NC-100A, pictured above, was made about 1939.

K F N N E D

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Canadian Antique Phonograph Society
Vintage Radio and Phonograph Society

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FOR SALE OR TRADE

ANTIQUE BEEHIVE WHITE INSULATORS -\$1.00 EACH --- HEAVY DUTY T.V. REPLACEMENT TRANSFORMERS, NEW BOXED AT \$20.00 EACH. -- 50 YEAR COL-LECTION OF VACUUM TUBES LOW LOW PRICES. INQUIRE M. LEVY, 101 EAST DRIFTWOOD #44, FBG, TX 78624 TEL (512) 997-2534.

50 YEAR COLLECTION HARD TO FIND TUBES: LOW LOW PRICES, INQUIRE, M. LEVY, 101 EAST DRIFTWOOD #44, FBG, TX 78624. ******************************

TRANSFORMERS--- POWER--- HEAVY DUTY---T.V. AND RADIO REPLACEMENT TYPES, STANCOR AND MERIT, NEW BOXED AT \$20.00 EACH. LARGE COLLECTION VAC-UUM TUBES, LOW, LOW, PRICES. IN-QUIRE M. LEVY, 101 EAST DRIFTWOOD #44, FBG, TX 78624, TEL. (512) 997-2534. *******************************

FOR SALE— RIDERS MANUALS, ABRIDGED (VOL. 1-5) AND VOL. 6 THROUGH 16 \$275.00. VOL. 9, 10, 14 \$20.00 EACH. ANTIQUE RADIO SERVICE, O. H. McDONALD. 2535 WEDGLEA #124,

ELECTRON TUBES: Receiving, transmitting, microwave.. all type available. Large stock. Next day delivery, most cases. Daily Electronics, P. O. Box 5029, Compton, CA 90224 (213) 774-1255.

TUBES AND POWER REPLACEMENT TRANS-FORMERS... LOW LOW... PRICES: MIN-ATURES AT \$1.00.... OCTALS AND LOCTALS AT \$2.00.... INQUIRE ON OTHERS.... M. LEVY, 101 EAST DRIFTWOOD # 44, FREDERICKSBURG TX 78624. TEL. (512) 997–2534.

RADIO RELATED TIE CLASPS, LAPEL PINS, R.C.A. - G.E. - PHILCO, ETC. FULL ENAMEL EMBLEMS. SEND S.A.S.E. FOR LIST. YOU WILL BE GLAD YOU DID. MR. MICHAEL S. SABODISH, SR., 11-A MATAWAN AVENUE, CLIFFWOOD, NJ 07721.

INDIANA HISTORICAL RADIO SOCIETY information and membership application send SASE to: IHRS, 245 N. Oakland Avenue, Indianapolis, IN 46201

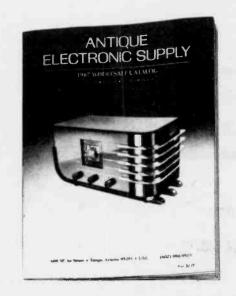
FREE — FOR NEWLY ISSUED FLYER, no. 187. Send 2 stamp SASE to: Olde Tyme Radio Company, 2445 Lyttonsville Road, Silver Spring, MD 20910.

SUBSCRIBE TO "antique Radio Collectors Newsletter," 6 issues for 1987 are \$7.50, sample copy \$1.00. Antique Radio Laboratories, R 1, Box 41, Cutler, IN 46920.

STROMBERG CARLSON MODEL 601, 6-01A'S INCLUDED, HAS VOLTMETER IN PANEL, \$175.00. — KELLOGG MODEL 510 WITH TUBES. TOP OF THE LINE 1928, \$175.00 — LYRIC 7 TUBE MODEL 60, \$100.00 — RAY MINER, 1215 B. FT. MADISON, IA 52627 — (319) 372-1271.

FOR SALE: A. J. EDGECOMB NAVY TYPE TUNER FROM "THE WIRELESS SHOP." CIRCA 1917. MINT. AUTHENTIC TAG FROM THE GREENWOOD COLLECTION. MAKE OFFER. F.A. NICHOLS, 720 E. ELDORADO ST., APPLETON, WI 54911.

FOR SALE, AERIOLA SR. receiver type RF, with original paper in cover.



for TUBES, PARTS, & BOOKS

Our 1987 catalog contains the most extensive listing of parts and supplies available for early radio, with 20 pages of tubes, capacitors, transformers, lamps, grill cloth, repro parts, books and more.

Write or call for 20 page wholesale catalog. ANTIQUE ELECTRONIC SUPPLY

688 W. First St., Tempe, Arizona 85281, 602/894-9503

One I, Radiola type AC manufactured by Westinghouse, original metal plate in lid. Cases are excellent. Selling as is, two units for \$200.00. Cleon L. Boothe, Box 235, Cohocton, NY 14826.

FOR SALE — JULIETTE VOICE OPERATED MIKE NOS \$6.00. — ANTENNA SW. DPDT CONTACTS MTD. ON 1X1 SQ 2 IN. HIGH CERAMIC POST 4"X6" OLD, BUT GOOD CONDITION \$10.00 — ARGONNE AR—81 DUEL NEEDLE TURN OVER PHONO CART. FOR 33 OR 78 RPM \$4.00. ADD SHIPPING. SASE FOR PARTS LIST. ENGLAND, 98 MONTAGUE, ZANESVILLE, OH 43701.

RADIO RELATED TIE CLASPS AND LAPEL PINS— ALL NEW LISTS— MANY NEW ITEMS— PUT YOUR FAVORITE RADIO ON A 2 1/4 INCH PLASTIC BUTTON. SEND L.S.A.S.E. FOR DETAILS AND ILLUSTRATED LIST. MR. MICHAEL S. SABODISH, 11— A MATAWAN AVENUE, CLIFFWOOD, CLIFFWOOD, NJ 07721.

CONSOLE RADIOS: CROSLEY MOTOR DRIVEN art deco, Zenith Black Dial, Majestic 91, Majestic 131, Zenith Super IX. All for \$350.00 negotiable. Battery sets: Echophne V3 \$150. Crosley 52-S hard to find, restored \$125. Phonos: Columbia

Eagle \$250, Columbia QQ \$250. Trade: Grebe CR12 for AR10, Ozarka portable for what have you? Craig Ball, 10101 Oak Hollow Circle, Austin, TX 78758. (512) 835–7292.

ANTIQUE RADIOS, three single tube DC sets, regeno three #140, one partial 1 tube set, one radio device?, three unique speakers. All for \$300.— RADIO, 29 SOUTH AVENUE, WHITMAN, MA 02382.

10T4 GE TV 10 inch 1949 complete. Trade for 2 wood cabinet table radios 1 must be an RCA complete. George Arth, 2412 Washington, Lexington, MO 64067

ZENITH TRANS - OCEANIC collection, all are AC tube type. Chassis types 6A40 (2), 7G605, 5G740 (2), 5H40, \$300 for all six. Eugene E. Folger, RADIO, 29 South Avenue, Whitman, MA 02382

HOWARD TABLE MODEL RADIO model 575 and other table models. Two 1917 WWI books. Russell Schoen, E 7340 Nietzhe Road, Clintonville, WI 54929.

EDISON C2 RADIO / PHONO, 1928, good cond. Manual and warranty card present, not running, needs work, \$400. Eugene E. Folger, RADIO, 29 South Avenue, Whitman, MA 02382.

RADIOS, TV's, related items. Send SA2SE for list. John Kendall, P. O. Box 436, Fallston, MD 21047.

BLACK and WHITE new yokes and flybacks 2 thru 167 — \$15. postpaid— Don Aldred, 39 East 8th Street, Jacksonville, FL 32206.

NC 183D WITH SPEAKER \$65, PRECISION E-200-C SIGNAL GENERATOR \$20, PHILCO 112 CHASSIS \$30 WITH ALL 11 TUBES. JOE WATSON, 3300 ARROWHEAD

CIRCLE, ROUND ROCK, TX 78681 (512) 255-7962.

FOR SALE: TUBE COLLECTORS. A LONG LIST OF TUBES FROM EARLY 1920'S. SOME RARE ONES ON THE LIST. LIST NOT THE GARDEN VARIETY TYPE TUBES. SASE FOR LIST. F. A. NICHOLS, 720 E. ELDORADO STREET, APPLETON, WI 54911.

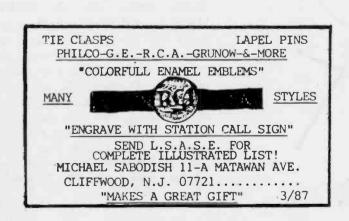
P. S. ELMER O. OSTERHOUDT OF MODERN RADIO LABORATORIES, MRL, of California passed away a couple of weeks ago. He was the leading authority on crystal sets and vacuum tube old radios. Through his encouragement, MIDCO was founded, and hopefully will carry on where he left off since starting MRL in 1932. For more details, write the following family member: Mel Osterhoudt, 11 Summerwalk Ct., Nuport Beach, CA 92663.

FOR SALE; UNUSED AND USED TUBES, capacitors, speakers, phono cartridges and needles. C. Elmer Nelson, 11 S. Church Street, Princeton, IL 61356.

AK MODEL 10 BASEBOARD RADIO WITH HORN, \$500.00 PP. SEVERAL battery sets and interesting horns available. Am looking for a Victor Theramin. George Anglin, 938 E. Prince Road, Tucson, AZ 85719. (602) 887-2899.

RIDERS 1 TO 23, RIDERS TV MANUALS, old radio parts, over 6,000 tubes, old radios mostly battery sets. Will sell or trade. Call evenings. (412) 628-4030. Ask for Tom Cowles, 325 S. Pittsburg Street, Connells-ville, PA 15425.

WEBCOR MODEL 80 WIRE RECORDER with operating instruction book, service instruction book, tags, spools of wire. Webcor model 228-1 wire re-





VINTAGE RADIO & PHONOGRAPH SOCIETY AND ANTIQUE WIRELESS ASSOCIATION

VRPS/AWA CONVENTION '87

Date: Fri, Sat, Sun. October 16, 17, 18, 1987

Place: Dallas, Texas Holiday Inn Dallas-Southwest.

Featuring-

Old equiopment contest. A total of 18 Categories with trophies and ribbons for winners in each category

Auction of over 300 lots - Saturday .

Swapfest - Sunday morning.

Technical session Saturday.

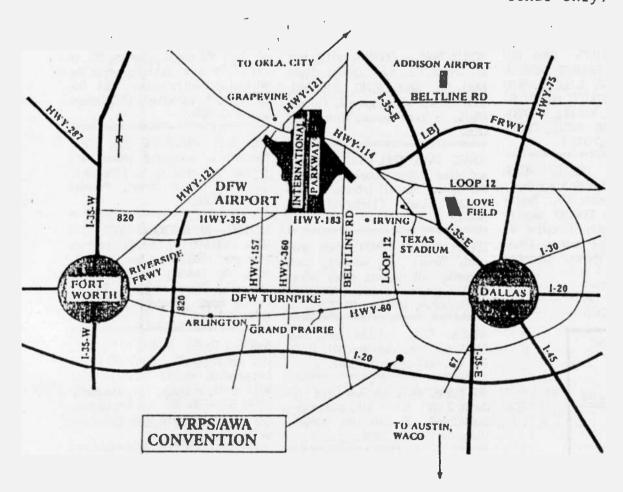
Cocktail Party and Banquet with awards of trophies and ribbons - Saturday night.

Chances on excellent prizes for all who register in advance.

For Registration Form, Map, Program, etc. contact:

VRPS/AWA CONVENTION '87 Mike Sherman, Convention Manager P. O. Box 165345 Irving, Texas 75016

Or Call Toll-free 1-800-527-9250 (outside Texas only)



corder "Electronic Memory" dictation machine with original plastic dust cover and spools of wire. Make offer. John Schellkopf, 1344 Goucher Street, Pacific Palisades, CA 90272.

BEAUTIFUL, COLORFUL, ENAMEL radiorelated tie clasps and label pins with emblems of Philco, G.E., R.C.A. and others. Must see to appreciate. Send a L.S.A.S.E. for completed illustrated list. Mr. Michael S. Sabodish Sr., 11-A Matawan Avenue, Cliffwood, NJ 07721.

THORDARSON YOKES AND FLYBACKS-2 thru 167 \$15.00 each. postpaid, Don Aldred, 39 East Eighth Street, Jacksonville, FL 32206.

IF YOU DID NOT SEND FOR MY TIE TAC AND LAPEL PIN LIST YET - HURRY - 125 SATISFIED CUSTOMERS FROM 9 CLUBS CANNOT BE WRONG. SEND A L.S.A.S.E. FOR ILLUSTRATED LIST TO: MICHAEL SABODISH SR., 11-A MATAWAN AVENUE, CLIFFWOOD, NJ 07721.

FOR SALE; UNUSED AND USED TUBES, CAPACITORS, cone speakers, phono cartridges and needles, used tubes from 40 cents up. C. Elmer Nelson. 11 S. Church Street, Princeton, IL 61356. ************************

FOR SALE: 'MARY-O-DYNE" - 1925 5 TUBE, TRF BATTERY OPERATED MODEL 512C (AMBER MFG. CO. N.Y.C.) -PHILCO MODEL 37-611 1936 - MA-JESTIC - MODEL 381 - "PIRATES CHEST") - VIBROFLEX WIRELESS KEY - R.C.A. HORN SPEAKER MODEL UZ1325 — Deforest loop antenná — All FOR \$275.00 ---- C. D'ALESSIO, 136 CHANGEBRIDGE ROAD - K4, MONT-VILLE, NJ 07045. (201) 263- 4747.

ATTENTION IOWA COLLECTORS!! SMALL COLLECTION OF RADIOS FOR SALE. WILL SELL ENTIRE LOT ONLY FOR A BARGAIN PRICE. SEND S.A.S.E. FOR LIST AND PRICE TO: MICHAEL D. WEEKS, 1103 PATRICK COURT, #209, WATERLOO, IA

CRYSTAL radio sets, plans, parts, books, kits. Catalog \$1.00. MIDCO, 660 North Dixie Highway, Hollywood, FL 33020. ******************************

Hi, I'm Newt, and I've been making radio circuits since the late 1930's (see Breadboard AMer Is A Golden Oldie, Jan 78, ELEMEN. ELECTR.), and have developed circuits for EKI and MFJ as well as have taught radio in the army & at private trade schools. I am author of COLOR TV SERVICING and CB & 2-WAY RADIO REPAIRING, publ. Nelson Hall, Chicago. Now I am too old to find work, and am somewhat disabled, yet don't get a cent from VA or SSI. In order to complete qualifying for social security, I am selling hobby electronic plans. Newt Smelser, 1030 N. Main, Springfield, MO 65802.

LUMP SALE - OVER 12,000 RECORDS -VICTROLAS, OLDIE RADIOS, RECORDERS WIRE TAPE MONO STEREO 8 TRACK TRANSCRIBERS MICROPHONES SPEAKERS AMPLIFIERS MONO STEREO 5 CADY TUBES ASSORT NEW PARTS -- HARLIE M. COX, 3427 W. HOLLY ST., PHOENIX, AZ 85009 (602) 278-1461.

MAJESTIC MODEL 460A TOMBSTONE, ALL CHROME GRILL RADIO, NEEDS WORK. RUSS SCHOEN, E. 7340 NIETZKE ROAD, CLINTONVILLE, WI 54929.

TV'S - TV'S - TV'S! OVER 280 PRE-1950 TELEVISIONS FOR TRADE-SALE (INCLUDING 4 RCA TRK-12's!). PAYING TOP DOLLAR FOR OLD TV'S. HARRY POSTER, BOX 1883, SO. HACK., NJ 07606. (201) 794-9606.

(outdoor) ANTENNAS & GNDS

CRYSTAL RADIO CONSTRUCTION details: 1915 Bureau of Standards, 1922 Aeriola, Supertone, Radiogem, *loop antenna, carborundum, shortwave, loudspeaker, plus antennas, wavetraps, odd detectors, antique crystal radio amplifiers- everything \$2.00. Smelser, 1030 North Main, Springfield, MO 65802.

GARAGE FULL RADIO PARTS, EQUIPMENT, TUBES, MAGAZINES, BOOKS, METERS, MUST SELL DUE TO ILLNESS. LARGE SASE FOR LIST. BILL THOMPSON, 1095 NW 147ST, MIAMI, FL 33168. (305) 685-1993. ***************

FOR SALE: RADIO TUBES: NEW IN ORIGINAL CARTONS. Also many used types. Large comprehensive stock. Also some parts and collectables. Send L.S.A.S.E. (or) \$1.00 (refundable) for lists. DON DIERS. 4276-S1 N. 50, Milwaukee, 53216-1313.

CATHEDRAL RADIOS, MUST BE NICE AND WORKING CONDITION. WILL PAY TOP DOLLAR. ALSO WANT OTHER UNUSUAL AC RADIOS. HAROLD PERKINS, 4468 SUN VALLEY DRIVE, LAS VEGAS, NV 89121.

WANTED: CROSLEY MODEL 59 CHASSIS IN ANY RESTORABLE CONDITION TO COM-PLETE MY CROSLEY GRANDFATHER CLOCK RADIO. BURNETTE B. KERCHNER, WILLOW ST., LENHARTSVILLE, 19534. PHONE (215) 562-8772.

SX-28, SX-71, COLLINS 51J RECEIV-A-K HORN A-K CATHEDRALS. SPEAKER. JOE WATSON, 3300 ARROWHEAD CIRCLE, ROUND ROCK 78681 (512) 255-7962.

WANTED, PREMIUM PRICE PAID for Tower Adventurer sailing ship speaker, also for similar smaller ship speaker, made by Jodra. Gordon Wilson, 11108-50 Avenue, Edmonton, Alberta, T6H OH9 Canada.

WANTED- RADIO TUBES w/tip type as WD-11, UV-201, etc., Equipments & Sound systems from Western Electric, Langevin, Jensen, Altec, JBL, Tannoy, McIntosh, Marantz, Dynaco - Tel.: (818) 576-2642. David Yo, P. O. Box 832, Monterey Park, CA 91754.

8.1% Tax (WA State only).

TOTAL DUE.....\$

Postage & Insurance..... 2.99

WANTED: PEERLESS DYNAMIC 9" speaker Model 19 AR-60. Early Canadian Radio Magazines. Radio News 1919. 1921, 1922. Radiola 20 chassisgood audios. Good driver for Saal speaker. Ron McNeill, Box 472, Yorkton, SK, Canada, S3N 2W4.

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WANTED: SEPARATE DETECTOR AND AM-PLIFIER. UNITS USED WITH GREBE CR9. WOULD APPRECIATE OFFERINGS OR LET-TER FROM GREBE SPECIALISTS. CHESTER FRANZ, ONE CHAROLAIS DRIVE, BAY, MO

MANUAL OR REPRINT FOR HALLICRAFTER SX-88, SX-42, S-36 and S-27 type Call or write (612) 352-3500. Vernon Freichels, 1025 Pleasant Street, Sauk Centre, MN

WW2 AIRCRAFT RADAR H2X, MICKEY PHILCO AN/APS-15, W. AN/APQ-13- NEED PIXS, SCHEMATICS, TECH., ORDERS, ETC. B. C. VINTAGE FLYING MACHINE, P. O. BOX 18099, FORT WORTH, TX 76118. (817) 282-3825.

- MARCONIPHONE VIII CAB-INET OR PHOTO OF ONE. GORDON WILSON, 11108 - 50 AVENUE, EDMON-

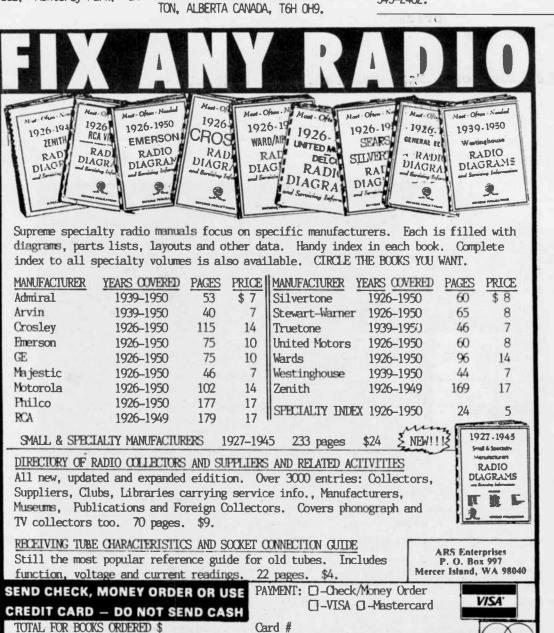
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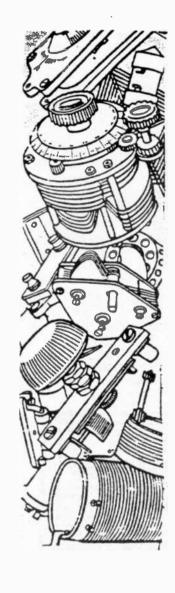


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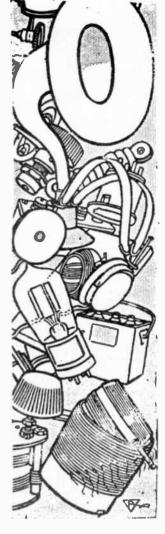
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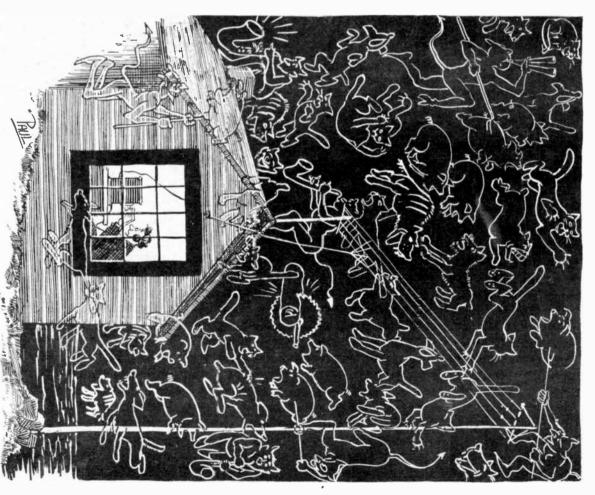
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