Overhauling of Radio Sets for Winter Advised

Outfits Lose Efficiency During Summer Storage, Claim Experts.

By FREDERIC BORTZMEYER. entirely for the summer will now soon be reinstalling it, and those of us who built a portable receiver for the past months will be storing it

away and turning to our old winter

be resuming their pastime of listening in. Some will have their expectations old set entirely justified, but how many will be disappointed and puzzled at their set's failure to function with all its old vim and punch? It may efficiency in a few months of disuse, markable memory but that such is the case oftentimes has been proved in the past. This article is written in the hope that much trouble and expense on the part of the radio fan and the junking a good set which needs only over hauling and cleaning may be done do the same, Mr. Buckner merely

Ordinary Dusting Not Enough.

It is not sufficient to wipe all the visible dust from the interior of the set. Every instrument composing it should be thoroughly cleaned. Several small, soft, clean cotton cloths and a piece of stiff wire will be sufficient

Do not overlook the inductance coils, for dust lodged between turns of wire will assist in making the set a broad tuner, and, because of the greater distributed capacity, will also cause reduced signal strength. Dust furnishes shorts and by-passes for

All wiring should be gone over in some unknown accident may have happened to the set while it was in disuse. It may have been subjected to some mechanical shock about which you know nothing, and the set has been stored in too warm a place any surplus soldering paste which may have been left under a and possibly caused corrosion. Again, you may have been in somewhat of a hurry to try out your new portable spring and may have accidentally injured some of the wiring.

As mentioned before, all of the individual instruments composing the set should be inspected. Dust collected on the plates of variable contance values and consequently their efficiency in the circuit for which they are capable of being put to hard service all winter. Contact springs sures against a high resistance layer of corroded metal being present between the prong of the tube and the metal proper of the contact spring. Good contact at this point is especially important in the grid circuit.

Renovating Jacks.

Telephone jacks should have the assembly screws tightened, because temperature changes and tension and stress of wiring may have forced them loose. Good contact between the spring arms may be had b drawing a piece of very fine sand paper through the arms. The paper should be drawn through twice only. once with the abrasive side toward one arm, and once with it toward the other. Do not draw the paper through repeatedly. The contact points on the spring arms are usually of silver, a comparatively soft metal, and these must not be worn If your set has the panel com-

pletely shielded, each instrument should be individually tested for shorts to the shield and ground. If it has not heretofore been shielded and you wish to provide against body capacity, the following steps must be taken:

Remove all instruments from the back of the panel, and with shellac apply a sheet of metal foil over the entire panel. From the front of the panel puncture the shielding through the shaft holes and mounting holes. Turning to the back of the panel again, scrape away the foil from each of the holes, leaving a space about the size of a dime unshielded around each hole, as shown in Fig. 2. Now the instruments may be remounted, all being held clear from the shield by fiber washers over the shafts and mounting screws, as illustrated by the side view in Fig. 3. With the shield grounded. the set will be free from many extraneous noises and from body cap-

Some vacuum tubes refuse to oscillate when new or after a long period of inactivity. This trouble sometimes can be remedied by placing the tube in the circuit and allowing it to remain lighted for some time. Although "B" batteries have great recuperative strength, they will not perform efficiently after a long period "on the shelf." It must be remembered that the plate circuit voltage must be kept above a certain potential, below which the tube will not function at all. Thus your battery may not be dead, but may produce a potential below the operating point of your

Compression type rheostats should be taken down and cleaned and all metallic contact points inside the instrument polished with emery cloth. Several of these points are shown in

In front of the panel we will not find much to offer serious trouble. The space between switch points should be kept clear of dust and grease. Panel mounted grid leaks should be readjusted and firmly fastened to the panel. Wraped dials will not provide a reason for a set's failure to function, but they are very annoying and cause dial readings to

be inaccurate. of you have not used your aeria

Memory Test Given



were demonstrated last night by W R. Buckner over WOAW radio. He ning club. speaker. WOJ, Chicago, 448; 8-16

He was blindfolded under super vision of Mayor Dahlman. each number was placed a word or letter. Radio listeners were asked to listening while the words or letters were written,

Then, speaking into the microphone

secret of a good memory," he said afterward, "Association of ideas and vord pictures causes the machinery

nd hear his name correctly. If you nough in them to try to remember correctly try to get some thought in consequence of a short circuit. If percentage of the names which you hear have a very definite meaning.

all summer and have allowed it to terminal or a lug will have melted hang grounded, it would be a safe and inspect the insulators, joints and AIR-DRIVEN SHIPS guys. If the wire be badly corroded it would be best to replace it with

Overhauling the Antenna. the latter and then reconnect it at the new end formed, as shown tions to moving parts may need to Figure 5. This provides against the backward and forward so frequently, the keel, the air passing Inspect the soldered joints and see thousands of holes

in the guys assist in keeping th aerial under proper and constant

on Radio by Omahan From the foregoing it is easy to see the great fumber of places which trouble may be found and remedied in a set which has been storage for some time must be thou fore it will operate with its old effew of the difficulties with which gram for the week. Station WOAW ng your set next spring think of a you met this fall and guard against will supply station WEBL, the radio

RADIO

By Associated Press.

WFAA, Dallas News (476) 7:30-9 ser KFKB, Milford Minneapolis. St.

30 concert. WCAE, Pittsburgh (462) 5:30 concert. KGW, Portland (492) 5 concert. KPO, San Francisco (423) 10-11 con-

NEW, St. Louis (280) 7 lectures.

CKY, Winnipes (450) 7 sacred services.

WCBD, Zion (345) 8 brass quarte

be resoldered to the shafts before aerial wire breaking at this point forepart of the boat forces an because of the softened condition of through tubing running under the the wire, caused by its being bent bottom of the boat on each side present a shining surface. This in-

> Hang Out Old Glory Properly On Armistice Day

Radiola



Radiola Super

An improved Super-Heterodyne receiver in a mahogany cabinet, using no antenna or ground. See this Radiola at The Radio Corporation show during this week, Complete with six UV-199 Radiotrons and built-in loud speaker-everything except batteries

³425

Buy a Radiola on Liberal Terms

Under our easy payment plan you can buy any one of these Radiplain this easy-owning plan to you.



The most popular aerial-less radio set on the market today, the Radiola Super-Heterodyne appeals to those who are not so located they can use a set of the antenna type; being entirely self-contained, except the loud speaker, and having plenty of volume and good selectivity. It is the ideal set for those living in apartment houses, hotels or places where the erection of an antenna is impracticable. Complete except bat-

3269 Nebraska Power C.

Radio Show Program

ne Auditorium, during the coming broadcasting station and will witness verything that takes place in a

roadcast studio. The Radio Corpora he Mid-West Electric Co., who are

Monday Evening. alk: Mayor James C. Dahlman, encord saxophone hand: pncord South Tile.

Ed F. Williams. Hugh Wallace.

Tuesday, November 11. 2:30 P. M.-Matinee program. Mando

t by Hime Gerstein. Vocal solo studio of Walter B. Graham. Read by Thomas Russell. Plano solo studio of Stanley Jan Letovsky. P. M.—Potter's mandolin quartet P. M.—Dance orchestra.

Wednesday, November 12. 2:30 P. M.—Matinee program. Phillips amily orchestra. Vocal soles from udio of J. Edward Carnal. Piano solos om studio of Bessie B. Middleton. 8:30 P. M.—Artists from Columbus, cb. Miss Helen Snyder, piano teacher. Columbus. Luzetta Snyder of Columbus and Mrs. Long. Mrs. Long. M.—Dance music by the Colum-

M.—Matinee program: Soprano Margaret R. Burns. Banjo Frank Buckingham. Readings E. Konecky. Vocal solos by

Friday, November 14.

Officers Talk at Columbus

Major Morley Says Election Approval of Defense Test Day.

Columbus, Neb., Nov. 8 .- That the esult of the presidential election induded popular approval of the national defense test day activities, was the assertion made by Maj. C. H. Marley, Omaha, judge advocate of the 89th division, speaking to the Platte County Reserve Officers' association Brunswick-Ealke-Collender company at a dinner of the organization here, with the Radio Corporation of Amer Major Marley was among a group P. M.—Merry Musical Maids of of army officers and reserve officers who made up the automobile delega

> attend the meeting. by the following out-of-town regular they felt confident army officers and reserve officers: Nuttman, Omaha; Lieut, Col. C. W. Cillotson, infantry, assistant organ-

ized reserve officer 7th corps area; ing chief of staff 89th division; Maj

signal officer 89th division; Maj. C. H. Marley, Omaha; Capt. G. H. Harrell. Capt. C. W. Kline, engineer P. R. C., extravagant terms a few shore executive committee Douglas county months ago. reserve officers' organization, and Capt. Byram, Decatur, Neb.

RECORD ARTISTS

nusic fans is the affiliation of the

The Brunswick company has fo

It is the plan of the Brunswic

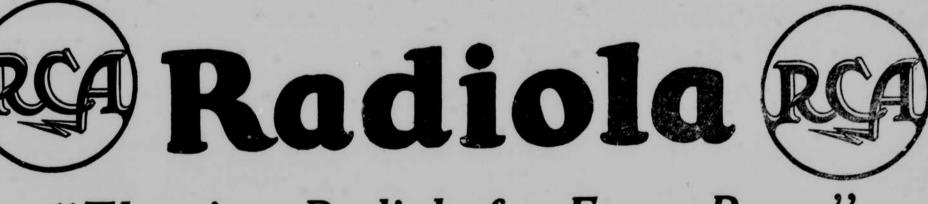
C. S. Bendel, Omaha, infantry adju- broadcasting purposes through the tant nondivisional group; Maj. W. R. coast-to-coast broadcasting stations Brooks, signal corp. O. R. C., division of the Radio Corporation of America The La Follette now Q. M. C., assistant quartermaster 7th roundly denounced by W. J. Bryan is orps area; Capt. C. H. Palmer, cay. the same La Follette that the alry, adjutant 66th cavalry division; W. J. Bryan was eulogizing in most

RADIO BARGAINS

For Saturday and Monday

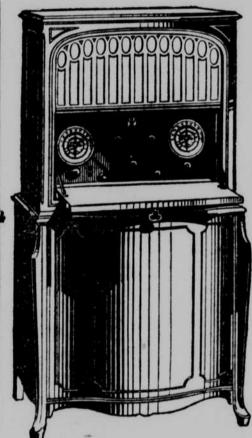
R. M. SHLAES CO.

18 N. 16th. Opposite Loyal Hotel Coast to Coast Radio Co. 4712 S. 24th St., South Omaha Open evenings. Mail order given prompt attention.



"There's a Radiola for Every Purse"

RADIOLA SUPER VIII



Under the very shadow of the antenna of a local station, the Radiola Super VIII and the Radiola Super Heterodyne will tune in distant stations as if the local station were not there.

In selectivity, range and quality of tone, they are unequalled. They are simple to tune and the tuning is constant from time to time. They are dry cell operated, nonradiating, and will not pick up squeals

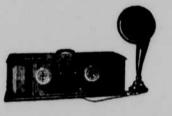
With six tubes, results are obtained which before could not be had with eight

The Radiola Super VIII is entirely selfcontained, no external connections of any kind. Its beautiful mahogany desk-like cabinet, the lower part of which contains the revolving loop antenna, will be an addition to the best appointed home.

The Radiola Super Heterodyne is exactly similar to the Radiola Super VIII, except that it uses a separate speaker, is portable, and has a smaller fixed loop. Attachment is provided for use with a larger movable loop or antenna if desired.

Price of Radiola Super VIII, including six Radiotrons UV 199, \$425 less batteries, is

Price of the Radiola Super Heterodyne, UV 199, less batteries, is \$269



OMAHA

RADIOLA SUPER-HETERODYNE

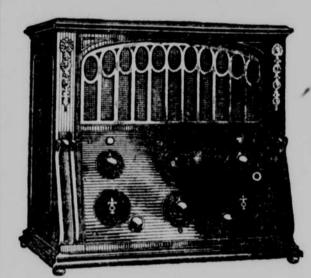
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They Are Distributed by

See them at our dealers' booths at the

Radio Educational Exposition

RADIOLA X



More than any other sets made, the Radiola X and the Radiola Regenoflex have a superiority in exact naturalness of reproduction. A living, marvelous tone that duplicates the original in an amazing

The new "Regenoflex" circuit utilized in these sets makes the four WD II Radiotrons as effective in their sensitivity as the usual five-tube receiver.

The Radiola X and the Radiola Regenoflex are non-radiating, and are dry cell operated. Price of the Radiola X with four Radio- \$245

trons WD II, less hatteries (Loud Speaker is self-contained)

Price of the Radiola Regenoflex, with four Radiotrons WD 11, less batteries. \$191 Includes Speaker UZ 1325



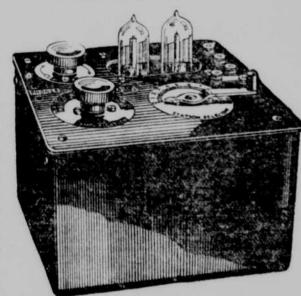
RADIOLA REGENOFLEX

OMAHA AUDITORIUM,

November 10th to 15th, Inc.

Afternoon and Evening

RADIO III and III-A



There are three divisions to this group-Radiola, III, which is a two-tube regenerative set which, combined with the Radiola Balanced Amplifier, is equal to the Radiola IIIA, which is housed

These sets are not "built down to a price," but are receivers of real merit. They are long in range and simple to tune, only one control being

Radiola III with 2 WD II and \$35.00 one headset Radiola Balanced Amplifier \$30.00 with 2 WD II Radiola IIIA with one headset, 4 WD \$90.00

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DES MOINES

