

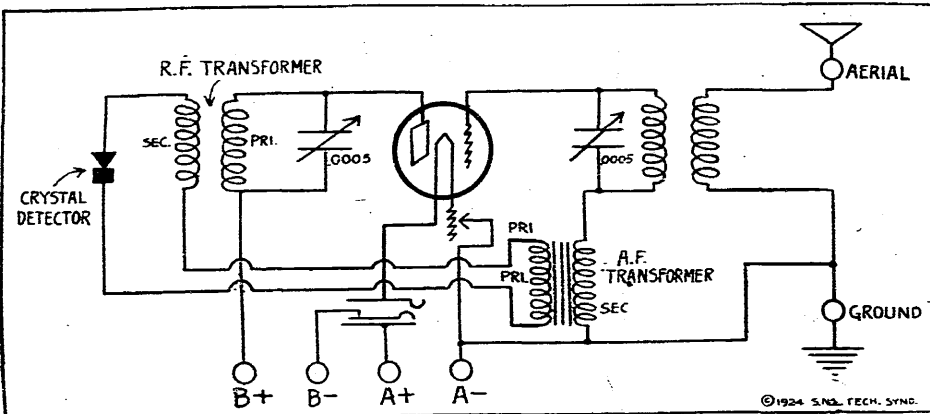
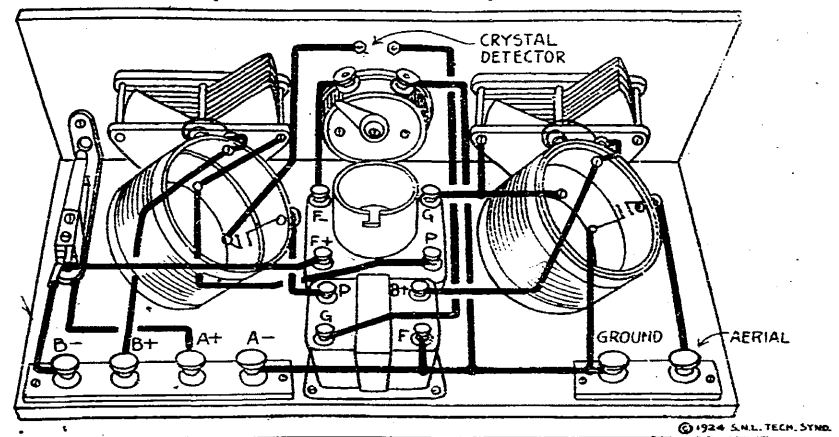
# The Radio Column

Timely Tips and Suggestions on the Latest Diagrams and Hookups—Simplified

## The Neutroflex Circuit

One Tube Reflex Set That Has Exceptional Volume and Selectivity

By CARLTON E. BUTLER, Radio Engineer



Still another reflex receiver makes its appearance before the radio public. The superiority of the reflex type of receiver over other systems of reception are becoming to be recognized with regard to quality of results, volume, and its non-radiating qualities.

The fact that the reflex system makes the vacuum tube amplify the radio currents at two different frequencies in itself is sufficient to warrant the careful consideration of the man who builds his own radio set. It is practically impossible to make this type of receiver radiate energy and thus cause interference with other radio sets in the near vicinity.

For the self preservation of the radio game it behooves every fan to seriously consider this fact and clean house. The improperly operated regenerative set must be eliminated if radio reception is to remain a pleasing sport for the majority of listeners in.

The "Neutroflex" receiver, a revision of the one tube reflex designed by Kenneth Harkness using a vacuum tube, is surprisingly free from squeaks and howls. The quality of music and speech when received is similar to that of a crystal set and the hollowness and distortion of a regenerative set is absent.

This is due partly to the fact that a crystal detector is used, and partly to the fact that the tube acts as a stage of radio frequency both of which tend to prevent the set from oscillating and causing a beat note of energy.

To state what a receiver of any type will do is not good practice for the reason that if the set is not constructed exactly according to specifications and does not operate at its best due to the use of some part that is not mechanically and electrically correct, you will not obtain the same results.

From the experimental set constructed for this article it was possible to operate a loud speaker on local stations without difficulty, and to bring in a few out of town stations with fair volume on the loud speaker. With good apparatus and careful construction there is no reason why you should not be able to achieve the same results with this circuit.

For the construction of the set you will need two pieces of bakelite tubing each three inches in diameter and three inches long. Two additional pieces of tubing each one inch long and of sufficient diameter to fit inside of the three inch tube when covered with a layer of wire will be needed.

Two .00025 Mfd. variable condensers (prefer if you prefer, one audio frequency transformer of medium ratio, one UV 201-A vacuum tube, one 25 ohm rheostat, one socket, one 6 volt A battery, a 90 volt B battery, a crystal detector, phone jack, wire and binding posts will complete the requirements for the receiver.

The winding of the primary of the first radio frequency transformer consists of 15 turns of number 21 cotton covered wire on one of the inside tubes. The primary winding of the second transformer consists of 25 turns of the same size wire.

oscillating and causing a beat note of energy. The tuning coil and the radio frequency transformer are both wound similar to the radio frequency coils used in the neutroflex receiver and are tuned by means of a variable capacitor. This is the origin of the name for the set the name being a combination of Neutroflex and Reflex.

**Operated Loud Speaker**  
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The picture diagram will give you

the general appearance of the two transformers and the method of placing the coil containing the primary winding within the secondary coil. The secondary of each transformer is tuned by means of a variable condenser.—Copyright, 1924.

### Radio Keeps Boys Busy And Out of Bad Habits

At last one modern improvement is found that does more good than harm. The radio, according to Mansel Keith, who recently addressed the delegates at the convention of Associated Manufacturers of Electrical Supplies meeting at Atlantic City, makes boys to be good by keeping them busy. The old warning taken, "For Satan still some mischief has for idle hands to do," may be replaced by the new slogan, "Radio keeps boys busy."

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### Broadcasting of Conventions Helps Wireless to Tighten Its Grip Upon Vast Number of People in America

Radio, which has developed by leaps and bounds during the last three years, will tighten its grip even more amazingly upon the American people during the next few months, according to views held in Washington. Only two facts need be mentioned to make this clear:

First—The broadcasting of the Republican and Democratic national conventions, with millions listening in, gives some idea of how the radio is being used to bring the people of every State within hearing of the campaign orators.

Second—Secretary Hoover is planning for the big radio conference to be held in Washington, in September, "for better voluntary control of radio," which will be attended by representatives of every radio interest—manufacturers, broadcasters, dealers, marine interests, amateurs, and listeners in.

Radio will arouse more interest than ever before in the campaign for the Presidency, in Congressional and local campaigns. It has developed so suddenly and startlingly that general interest is intrigued. In the last Presidential campaign radio did not take an important part, now it is at work with the prospect that it will be used very extensively.

Listening in at the conventions has whetted the appetite of the people. They want to listen to the campaign speeches. They will listen attentively to a speech where they throw candid criticisms at the candidates, and they will listen to a speech that you hear makes a different impression on you than the printed word.

Campaign speeches can be made to go anywhere by radio. No matter how far in the back-woods a presidential candidate is speaking, he can be heard by a pick-up for a central broadcasting station. And the big electric companies are prepared to give just such a service in Washington, with the trucks thus equipped stationed in the Capitol plaza to give a demonstration.

Those Who "Roll Their Own"  
There is no way of estimating within many millions the number of radio receivers that are being used in campaign speeches—because at least 70 per cent. of all the sets in use are home-made. In fact, the S. Burt Field, editor of the "Radio" magazine, has estimated that 700,000 sets have already been built more than 200,000 sets.

There is, however, an accurate record of the broadcasting stations through which the campaign oratory would be turned loose to a listening world—over 500, according to the S. Burt Field, editor of the "Radio" magazine, in the United States, Alaska, Hawaii and Porto Rico.

People usually let up on radio in the summer months, but more so because there are other attractions in the great outdoors. This summer, however, they will continue their interest in radio because of the campaign.

Way back in 1910, when the first radio act was passed, it provided that radio be carried on certain frequencies in all private and commercial radio stations, and to inspect and license all private and commercial radio stations. This was included in the internal revenue act, which also comes under the Department of Commerce and Labor.

Under this law the Bureau of Navigation, which also comes under the Department of Commerce and Labor, has been in charge of the radio division since March 1, 1915. The Government still operates a number of radio stations because Congress has failed to pass other legislation. In the session just closed, Representative Wallace W. White, of Maine, introduced entirely different radio control measures. To expedite action in getting the House and Senate into conference, the House committee amended the Howell bill by substituting the White bill after the enacting clause. This was favorably reported, and is still on the calendar.

### Five Best Features on Radio Program Tonight

(Eastern Daylight Time.)  
WEAF, New York (493M), 7:30 p. m.—Washington (495M).  
WJAR, Providence (360M), 7:20 p. m.—Program from the Capitol Theatre.  
WYNY, New York (453M), WGY, Schenectady (380M), 8:30 p. m.—Concert by the New York Philharmonic Orchestra.  
WGBH, Chicago (370M), 8 to 10 p. m.—Sunday evening artistic.  
KSD, St. Louis (346M), 11 p. m.—Program from the Grand Central.  
WOC, Jefferson City (440.5M), 10 p. m.—Union open air service.

that it was not rushed through in the last session. The radio division considers its most important work to be ship inspection because that had to do with the safety of life. It has always held to this as a prime duty—trying to inspect every foreign and American vessel which carries fifty or more persons on one voyage and trying to inspect these every time they clear because the apparatus is so delicate.

As far as the public interest is concerned, however, the broadcasting service comes first. This has had a wonderful development in the last two years, since broadcasting began in the 359 broadcasting stations to interference complaints came pouring in. This multiplied the work of the field inspectors.

The map of the United States has now been charted into nine radio districts, each with a supervisor in charge, aided by twelve radio inspectors and eight assistant inspectors. The new appointments include six more assistant inspectors and a few clerks.

This force has to inspect the stations, issue licenses, assign wavelengths, give them call letters, etc. The scope of this work may be better understood when it is known that the new appointments include twelve stations engaged in international communications, forty-five stations working with ships, 723 commercial stations exclusive of the stations on all foreign ships entering our ports carrying fifty or more passengers; 177 point-to-point commercial stations, 364 experimental stations, eighty-three technical and training school stations, 282 special and restricted amateur stations and 17,000 general and restricted amateur stations.

Failure to Pick Up Distant Stations Should Not Worry Owners of Sets  
Although a large part of the public has acquired a considerable degree of sophistication in radio matters since broadcasting came into being, there are many who are still uninitiated in the more common phenomena. This is true of those who acquired receiving sets in the early spring and now find that they are not hearing the distant stations which at that time could be heard on the loud speaker.

"I cannot get distance any more," is the oft repeated complaint heard from the local set owners. They are right, they are not, but there is nothing to worry about in that. It does not signify that something has gone wrong with the set; it is due to natural conditions.

It will sound true to old fans, but it may be news to newer enthusiasts. The reason is that the set does not come through in the summer time as it does in winter. The accepted theory on this is that the radio impedance of the atmosphere does not come through in the summer time as it does in winter. The accepted theory on this is that the radio impedance of the atmosphere does not come through in the summer time as it does in winter.

Some newer owners of receiving sets are also disappointed because stations which can be heard, aside from the local ones, are often accompanied by a rattle and banging that at times is fierce enough to spoil the music or speech. It may comfort such a listener if he knows that this condition prevails only in summer. Such static interference is encountered occasionally in the winter time, but it is the exception at that time.

Programs Not Important.  
The Radio Section of the Associated Manufacturers of Electrical Apparatus has been investigating the conditions existing in the field of radio reception. It is pointed out by L. W. Staunton, who is now collecting data on this situation for the radio division, that the most interesting feature in many cases the best entertainment, the most interesting news features, were being broadcast.

Nothing Reserved—All Summer Goods must be sold during this Sale  
WATCH FOR OUR CIRCULARS

### KIDDIES' REVUE WILL BE PARK'S FEATURE

Beginning tomorrow evening, Woodlawn Park will present a series of much gaiety. It will be known as children's week and the management for the monster Kiddie Revue. For the past three weeks the steady grind of the rehearsal has been heard and felt by everyone interested, but by none more than Mary Johns, who was brought here from New York to drill and rehearse the children in the revue.

The entertainment will be unique in that it will include almost every form of amusement found in vaudeville, musical comedy or light opera. It will be a passing panorama of music, dancing, character studies in monologue and music, pyramiding, drill and march movements and patriotic finales. Among the individual participants will be little Irene Walker, whose jazz number and buck dancing are expected to create a riot of laughter. Another entertainer, a favorite in Trenton, will be Ruth Barclay, who will sing "Minding My Own Business." Miss Barclay will also lead one of the most beautiful numbers of the revue, "The Roses of Picardy." Still another pair of popular entertainers will be the O'Hara Sisters in a specialty distinctly of their own creation. Little Baker will contribute an acrobatic dance and Edith Burton and Elizabeth Nolan will give an imitation of what some of our grand opera prima donnas were in their childhood.

"An Irish Lilt," by the McCloskey Sisters, will be one of the features of the revue, while Scottie and her Lads and Lassies in their kiltie and sailor costumes will doubtless prove popular. A fitting finale will be the rendition of "Star Spangled Banner" by the entire organization.

A most important feature of events at Woodlawn Park during the entire week will be the dancing contests. The winners of each night's contest will be eligible for the final contest, to be held on Saturday night, July 26. An award will be made to the successful pair. Further details of information will be gladly furnished by the manager of the Elysium Dance Pavilion, William Reynolds.

**"JANICE MEREDITH" TO BE SHOWN AUGUST 5**  
The Cosmopolitan Corporation announces that the world premiere of Marion Davies in "Janice Meredith" will take place at the Cosmopolitan Theatre on August 5.

"Janice Meredith" has been adapted by Little Hayward from the celebrated novel by the same name by the late Paul Lester Ford. E. Mason Hopper directed the picture. It is a romance of the revolutionary period of American history, and many characters are those conspicuous in its early development.

The period of the screen play will embrace the entire revolutionary era from 1775 to 1783, and many important events in our history have been filmed, including the Battle of Trenton, Washington's Crossing of Delaware prior to the battle, the Battle of Yorktown and the surrender of the British.

More than seven thousand five hundred persons altogether appear in the feature. The twenty-sixth U. S. Infantry and more than five hundred soldiers from Fort Ethan Allen were utilized in the scenes showing Washington crossing the Delaware and the Battle of Trenton and Valley Forge.

Among those supporting Miss Davies is important roles are: Brook Blinn, Harrison Ford, Madlyn Arbuckle, George Nash, Tyrone Power, Joseph Kilgour, W. C. Fields, George Spemann, Spencer Charters, Clint Howard, May Vokes, Douglas Stevenson, Princess de Bourbon, Mildred Ardell, Leo Beggs, Edith Nelson, Marian Kean, Harry Delano, Mrs. Mackay Arbuckle, Helen Worthing, Wilfred Noy and Kenneth Maynard.

**"SUCCESS" IS TO BE ORPHEUM'S FEATURE**  
In "Success," which opens at Ten Eyck's Orpheum Theatre tonight at the midnight show and which will play there Monday, Tuesday and Wednesday, the story is most emphasized.

"Success" is a story of theatrical life, written by a man who knows the stage and stage folk. It is a dramatic and stage play, with a definite ending, adding a great deal of the grand and wonderful atmosphere of the stage.

The story is described as a combination of drama, comedy, and farce, with broad humor, the story line in which the aged actor is forced to assume his old role of King Lear playing opposite his own daughter as "Cordelia" in a dramatic play.

### VACATIONISTS FIND PLEASURE IN RADIO

Radio as a means of keeping up with what is going on in the world while at summer homes is one reason why interest in radio is showing little abatement in the summer now as compared with previous seasons. The country is now so dotted with radio stations that it would have to be a remote spot indeed to be so far from a broadcasting station as to be out of touch with the local airwaves.

The moral of all this is that no one need be without the convenience or pleasure of radio in the summer time. The thrill of great distance may be lost for a couple of months, but there is an abundance of good stuff which may be had.

**BROADCAST STATIONS ARE IN 4 DIVISIONS**  
There are four classes of broadcasting stations in the United States: Class A—Those having less than 500 watts power and assigned wavelengths up to 300 meters.  
Class B—Those having power from 500 to 1,000 watts or more, limited to definite wavelengths and to a high grade of programs.  
Class C—Those of Class A kind, but transmitted on 300 meters, below the classification came into use.  
Class D—Experimental broadcasting stations for radio manufacturers.

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### ROMAS TROUPE WILL BE SEEN AT KEITH'S

Something out of the ordinary in thrilling vaudeville is promised at E. F. Keith's Capitol Theatre tomorrow, Tuesday and Wednesday in the act of the Romas Troupe, which will be a headliner with the new picture, "White Shadows," starring Betty Compton.

Only in the larger circuses has an act comparable to the Romas Troupe gained recognition. It is described as a sensational, portentous, acrobatic act introducing an entire family in all sorts of daring feats and tricks. The Troupe has been a sensation all along the circuit and comes here widely recommended for its ability and prowess.

Thomas P. Jackson, aided by Jean Russell, will offer an original play-let, entitled "The New Stenographer" and additional acts will include Eddie Furman & Olive Evans in "Scoring Touchdowns on the Gridiron of Sport." Louis London, character actor, will study Billy & Mac LaVer, in "I Wanna Dance" a study in grotesqueries.

Manager Brennan feels he has picked another winner for his patrons with the Solitzky Distributing Corporation's "White Shadows," starring Betty Compton.

The story deals with the influence one life may have upon another. Nancy Brent, a beautiful girl, is introduced to the world of show business by her father, who is a wealthy man. She meets and falls in love with Robin Field and he believes she is Nancy, pays her devoted attention. An acquaintance discovers Nancy rambling in a Robin cafe and both Georgina and a Parisian are there separately to see her. Robin, still confusing the twins, denounces Nancy for having deceived him about the life she is leading. One of her escorts, who is a doctor, tells her which she consues. Nancy slips away, Georgina, whose health is in a precarious condition, persuades Nancy to change places with her. This new act causes complications which, however, are straightened out.

**MRS. HART RENEWS BATTLE FOR CAREER**  
HOLLYWOOD, July 19.—Winifred Westover, wife of William S. Hart, has filed an appeal in the superior court here to have the trial of her case against him advanced to an early date instead of April 16, 1925, as recently fixed by the court. Mrs. Hart seeks to set aside provisions of her agreement with the star in which she pledged herself not to engage in motion picture work while he remained in the income from a \$102,000 trust fund which he set aside for her. She advances as reason for an earlier trial that the fund has been depleted and that the year her drawing power will greatly diminish. Mrs. Hart says she is unable to live on the income of the fund established by her husband's will of a similar amount for their son, W. S. Hart, Jr., totaling about \$3,000 a year, and finds it necessary to augment her income by accepting a star's salary offered her. She declares she agreed to Hart's terms when she was in delicate health and needed money.

**STATE—VAUDEVILLE**  
The Metropolitan Quintet, an organization of five Broadway favorites in a melange of song and dancing, has been booked as the vaudeville headliner at the Theatre on Tuesday and Wednesday. It is promised as a breezy combination of harmony and syncopation.

Other acts will include Winnie Hill & Ericson, in a comedy skit, entitled "Without Rhyme or Reason"; Howard & Kyle, eccentricities in song and dances; and Arthur Ward, well known eccentric comedian.

A high-class barber was trying to talk golf to a rough customer who don't care about a game. "I've declared the rough," the customer declared the rough. This upset the barber that he sliced into the rough.—Louisville Courier-Journal.

**GLEESON'S**  
162 W. State St.  
Latest Ballroom Dances Taught  
Guarantee to Teach Anyone  
Who Wants How to  
DANCE  
All Styles of Stage Dancing

**Strand Theatre**  
North Hermitage Avenue  
Tomorrow and Tuesday  
Evenings Only  
Mae Marsh, Claire Adams and  
Harry Myers in  
"Daddies"

**Niedt-Ertel Radio Shop**  
144 East State St.  
Open Evenings

**RADIO**  
Since 1912  
Largest Stock of Sets and Supplies  
Established 1900  
113 NORTH BROAD STREET  
**Fleron's**

**M. & P. URKEN'S**  
Semi-Annual Clearance Sale  
STARTS WEDNESDAY MORNING, JULY 23rd  
Nothing Reserved—All Summer Goods must be sold during this Sale  
WATCH FOR OUR CIRCULARS

**Moonlight Excursion**  
To Island Beach Park  
Monday, July 21st  
THREE-DECK IRON STEAMER QUEEN ANNE  
Orchestra—Dancing  
Steamer leaves Municipal Pier, Ferry and South Warren Streets, 7:45 p. m., giving one-hour stop-over at Island Beach. Round Trip 50c.