

# SCOTT



# NEWS

NEWS OF LATEST DEVELOPMENTS IN THE SCOTT RESEARCH LABORATORIES

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No. 2



*Announcing The*

## SCOTT TELEMATIC

A REVOLUTIONARY NEW MUSICAL INSTRUMENT

Drop into your easy chair . . . make yourself comfortable . . . Unfold your paper . . . touch a key at your side . . . and instantly your favorite station is tuned in perfectly; if the program is not to your liking, just touch another key, and quick as a flash you have a new program from another station.

The SCOTT TELEMATIC is an entirely new and different instrument in which dials, knobs and switches have been eliminated, either for tuning in programs, recreating selections of recorded music, or for raising and lowering the volume. All the bother of getting up and walking over to a radio receiver to tune out a program you don't care to listen to is eliminated, and so is the fuss and trouble of turning knobs and dials.

Copyright E. H. Scott.

Now you can sit in your favorite easy chair, and change from one program to another in a second. By simply touching a key on the small Compact Control Keyboard . . . no larger than the palm of your hand, and weighing only a few ounces . . . that rests on the arm of your chair, at your side at the dinner table, or your bedside, the old program silently steals away, and the new one smoothly and magically appears . . . perfectly tuned in.

**With This Modern Aladdin Turn Volume Up or Down,  
Without Moving from Your Chair**

The touch of a key gives you any volume desired from a mere whisper to full auditorium volume! Who has not settled



**THE CONTROL KEYBOARD OF SCOTT TELEMATIC 7" WIDE, 2¾" DEEP, 2" HIGH.**

down comfortably after tuning in a station on the ordinary type of radio to find that following selections do not come in with the volume desired? This is the time you fully appreciate the convenience of the SCOTT TELEMATIC, the modern Aladdin, for by simply touching a key at your side, you may instantly, *without moving from your chair*, change the volume to the exact degree you wish.

**Automatically Tunes in Each Program at Exact Time It Comes on the Air**

However, it is not even necessary to touch a key to bring in your favorite programs. *If you wish, you may select your radio entertainment for the entire day or evening in ADVANCE!* Merely consult the radio programs in your morning newspaper—insert a few simple stops in the Automatic Program Selector—then, without further attention, each program you have selected will be *automatically* tuned in *at the exact time the programs go on the air.*

If you prefer an "intermission" of silence between one program and an-

other, the SCOTT TELEMATIC equipped with Automatic Program Selector, will automatically turn off the current and station at the end of the program. Then, at precisely the right time later on, it will switch on the current and automatically tune in your next program the moment it comes on the air.

**You Can Check Programs from Each Station in a Few Seconds Without Moving from Your Chair**

However, when a program is tuned in that is not to your liking, there is no necessity to listen to it, for in a few seconds you can check the programs from all of the stations you regularly listen to, and select the one you prefer *without even moving from your easy chair.*

Even the volume is automatically controlled once you set it to the degree of loudness you prefer, and every station or record will then be heard at the same volume level.

**Gives Either Radio or Recorded Music at Touch of Key**

And when the programs coming in over

the air lose their interest, simply touch another key, *and again without leaving your easy chair*, into the room comes your selection of recorded music—the magnificent strains of Beethoven's mighty "Fifth Symphony," a Gilbert and Sullivan Opera by the incomparable D'Oyle Carte artists, Toscanini conducting the New York Philharmonic and playing the Prelude to Act III of "Lohengrin," the suave music of Guy Lombardo, or any other music that suits your fancy.

**Controls Can Be Easily Installed in Every Room in Home**

Your entertainment from the SCOTT TELEMATIC is not confined to only one room in the home, for duplicate Keyboards and sound projection units can be placed *in as many rooms of the home as you desire.* You may have Chamber Music while dining, a Symphony for after-dinner coffee in the living room or library, or a smart orchestra for dancing in the recreation room. Into each of the additional rooms you can bring programs from over the air, or recorded music, just as perfectly and easily as you do in the



**THE CUMBERLAND**—A very striking combination console with Burl Walnut front panels and striped Walnut sides. Specially designed for installation of the Scott TELEMATIC and speaker in lower section, with the Scott Automatic Record Changer in upper section. The Cumberland is 40" wide, 16" deep and 39" high.

room where you have the SCOTT TELEMATIC itself installed.

### Marvelous for Those Confined to Sickroom

For those confined to bed by illness, the SCOTT TELEMATIC has a particular appeal. With the attractive Control Keyboard within easy reach of the patient, a touch of a key brings into the sick-room the same music and entertainment enjoyed by the more fortunate members of the family.

We can also, if desired, supply a microphone connected to the SCOTT TELEMATIC, and a touch of a key will then enable the invalid to communicate her wishes to those in other rooms.

When you retire for the night, the SCOTT TELEMATIC will lull you to sleep with music, and automatically turn off, say, half an hour after you are in bed. Should you desire it, it will wake you with your favorite record or morning broadcast at exactly the time you wish.

### Designed for Those Who Enjoy Fine Music

This modern miracle of scientific re-

search has been designed for those thousands who enjoy the fine music and entertainment broadcast from their nearby stations, the marvelous recorded selections now available with the new High Fidelity records, and have dreamed that some day just such an instrument as the SCOTT TELEMATIC would be theirs.

Today we have a choice of radio programs undreamed of a few years ago, and



The Scott TELEMATIC is particularly valuable in the sickroom, providing music and entertainment.

with the improved chain facilities bringing all of the worth-while programs to our local or nearby stations, it is unnecessary to tune in distant stations for our favorite programs.

### Changed Conditions in Radio Broadcasting

As a result of this changed condition in broadcasting, owners of radio receivers are now divided into two general classes: First, the DX enthusiast or "dial twister" who, while enjoying the local broadcasts, secures his greatest thrill in listening to distant stations in all parts of the world, and finds part of his pleasure in adjusting the dial and control knobs of his receiver to secure maximum reception from distant stations. For such enthusiasts, the powerful, globe-circling PHILHARMONIC and SCOTT SIXTEEN represent the ultimate.

But for many thousands the thrill of listening to distant stations has now passed—this great group tune in their favorite programs from nearby stations, and listen only to the important foreign



A typical installation in the sunroom with the Scott TELEMATIC and Scott Automatic Record Changer installed in the Cumberland console. Seated in comfort, a touch of a key on the small Control Keyboard within easy reach of your hand, brings in instantly the program desired, raises and lowers the volume, or switches to phonograph for recorded music.

broadcasts from overseas rebroadcast thru their local stations.

### Scott Telematic Designed for New Type of Listener

For this second group an entirely new type of instrument has been created by the Scott Research Laboratories. The most important consideration is the finest possible tone—pure, natural and undistorted at any degree of volume. The Fidelity Curves shown on pages 14 and 15 will prove that the SCOTT TELEMATIC carries on the tradition of the Scott Laboratories, to build only instruments with tone so perfect they arouse the enthusiasm of such supreme artists as Arturo Toscanini, Lauritz Melchior, Eugene Goossens, and many other whose names you would recognize immediately.

### What Today's Radio Listener Wants

Many thousands of today's radio listeners are not interested in twisting dials or adjusting knobs . . . they care nothing about wave lengths or kilocycles . . . or "fishing" for distant stations . . . but are interested only in bringing in their favorite programs from the nearby stations with the least possible trouble and inconvenience. While reading the evening newspaper, entertaining guests, or comfortably relaxing, they do not wish to be constantly jumping up to change programs, or to raise and lower the volume. They also do not wish to continually

watch the clock to avoid missing some special program that comes on the air at a certain time.

### Another Long Awaited Convenience

Today, the ether is packed with hundreds of interesting and beautiful programs. However, there are still a few sponsors who have not yet discovered that long "commercials" are very boring to listeners. Thru common courtesy everyone is glad to give respectful attention to a short and dignified selling message over the air after listening to a worth-while program, but most of us object strenuously to long drawn out, high pressure announcements. With the SCOTT TELEMATIC, *without moving*

*from your chair*, you can instantly eliminate this type of announcement, or reduce it to a very low level, while waiting for the next program.

As the change is made from one station to another, either when programs are changed automatically by the clock mechanism in the SCOTT TELEMATIC, or by manually pressing the keys on the Control Keyboard, *the change is effected instantly and quietly*. There is no noise between stations.

### Scott Telematic Much More Than Radio Receiver

While it is true that a great variety of fine radio programs are available today, there are often times when there is not a single program on the air which satisfies our mood or the occasion.

The Instrument of Tomorrow must, therefore, be capable of reproducing recorded music so perfectly *that when changing from radio to records, a listening test will not reveal any difference*.

The new SCOTT TELEMATIC meets these requirements perfectly by providing: (1) Tonal fidelity from records that is equal to or better than the finest studio broadcasts. (2) Freedom from surface noise or "needle scratch." (3) Perfect record reproduction at very low volume whenever desired, and (4) a silent automatic unit which eliminates the changing of records by hand, and provides nearly



With the Control Keyboard on the table, dinner music can be enjoyed at all times.

The Scott TELEMATIC is particularly suitable for outside installations, as shown in the sketch. Here the speaker is shown permanently built in above the door. Separate speaker consoles are available, as shown on page 10. Now the news of the day, and sports events of all kinds can be brought in from any one of a dozen different stations without having to go indoors to change the station.



an hour's continuous entertainment without attention on your part.

### Designed Primarily for Music Lovers

The tone quality of recorded music from the SCOTT TELEMATIC and its highly developed sound projection system is remarkable for its crystal clearness, and record enthusiasts, once they hear their favorite selections, immediately agree that it is one of the most thrilling musical experiences they have ever had outside the concert hall.

To hear records thru this new instrument is an inspiring experience. What may seem almost incredible is that a good record, when heard thru the new SCOTT TELEMATIC, often sounds even more realistic than a fine studio broadcast.

You now enjoy, as never before, the world's great Operas, Symphonies, Chamber Music, and such supreme artists as Paderewski, Rachmaninoff, Kreisler, Heifitz, Melchior, Pons, Tibbett and others. The magnificent music of these artists can now be heard in your home thru the SCOTT TELEMATIC, as you would hear them in the concert hall.

### Records Instantly Rejected When Desired

When listening to records, you sometimes find you do not wish to hear a certain selection after you have listened to a portion of it. With the SCOTT

TELEMATIC, without leaving your chair, by simply pressing a key, instantly that record is rejected and the next one in the magazine is automatically played.

### Automatic Record Needle Scratch Suppression

It is the presence of excessive "needle scratch" or surface noise, that has prevented thousands of music lovers from completely enjoying recorded music, for the continuous "sssh" thruout the selection, continually reminds the listener that the music is coming from a record. When you switch the SCOTT TELEMATIC from radio programs over the air to recorded music, the instrument

automatically switches in a special Scott development (Scott Patents Applied For) that removes the record surface noise or "needle scratch" without impairing fidelity at normal volumes. This most amazing development is one of the chief reasons why listeners can never be sure whether they are listening to a radio or records.

### Record Unit Acoustically Sealed to Eliminate Mechanical Noises or Needle Rattle

Another example of the many refinements incorporated in this new instrument for hypercritical music lovers, is the fact that the SCOTT Automatic Record Changing mechanism is acoustically sealed in its compartment. The usual mechanical reproduction and annoying rattle heard directly from the needle or pickup head is eliminated—for ALL of the music comes from the sound projection unit. As a result, you can play records at extremely low volume, yet hear every note, both low and high, clearly and firmly.

Magnificent tonal perfection without distortion may now, at last, be enjoyed at almost inaudible volume—or it may be raised to the point where it shakes the rafters, with no more distortion than if you were seated in the first few rows of the concert hall.



With the Control Keyboard on his desk, the Scott TELEMATIC brings to the executive the news and reports of the day.



## *The Braemar*

**A distinctive and beautiful console with Australian Laurel Wood front panels and sides. As shown above, it is equipped with the Scott TELEMATIC and Automatic Program Selector Clock. It can also be supplied without the Program Clock if desired. The Braemar measures 25½" wide, 14⅜" deep and 34½" high overall.**



*The Westwood Equipped with Scott Telematic and Automatic Program Selector Clock.*

## PROGRAMS TUNED IN AUTOMATICALLY FOR ENTIRE DAY—AT EXACT TIME THEY GO ON AIR

No longer is it necessary to watch the clock to avoid missing one of your favorite programs, for should you wish it, the SCOTT TELEMATIC equipped with the Automatic Program Selector, will automatically tune in any one of 8 different stations every 15 minutes of the 24 hours of the day. (You have your choice of 12 stations from the Control Keyboard.)

When you open the doors of the beautiful Westwood console, you will notice at each side of the clock a series of small numbered stops in the rack opposite each call letter. The call letters, of course, are those of stations in your locality that you are particularly interested in receiving. The doors encircling the electric clock completely conceal these stops.

Now take your daily paper listing the radio programs, and select the programs you wish to hear during the day and eve-

ning. As an example, suppose you reside in Chicago, and wish to listen to WGN at 2:00 P.M., you take stop No. 2 from the rack and insert in hole on the outer rim of the clock at 2:00 P.M. You want to listen to WLS at 12:30, so insert



stop No. 5 in hole at 12:30. WMAQ may be the next station you desire to hear at 1:30, so insert stop No. 4 in hole on outer rim at 1:30 P.M., and so on. That is all there is to it. The SCOTT TELEMATIC will then—without any further attention on your part—*tune in every station you have selected—at the exact time the program comes on the air.*

If, after a station is tuned in you find you do not care to listen to it, you can, in approximately 12 seconds, check each of the programs coming in over the other stations and select another one. However, this does not affect the tuning in of the other pre-selected programs you have set up, for when the time arrives for the next program, the one you have temporarily tuned in will be cut off and the program you have previously selected will come in automatically.



The **SCOTT TELEMATIC** with *Scott Automatic Record Changer* Is Ideal Instrument for the Recreation Room.

## THE WORLD'S GREATEST MUSIC BROUGHT TO YOU BY THE SCOTT TELEMATIC

When you tire of programs from the air, you simply touch a key on the Control Keyboard, instantly the radio is shut off, the SCOTT Automatic Record Changer is switched on, and you can relax and listen to nearly an hour of continuous music of your own selection.

The science of recording has made tremendous strides during the past few years, and the beauty of recently recorded music will simply amaze those who have not kept pace with some of the very late developments in this field.

### Recorded Music Equal to High Fidelity Broadcast

When the newer records were made available to the public recently, it was suddenly realized that recorded music is today in every way equal to, if not better than, a High Fidelity broadcast—when reproduced thru an instrument capable of covering the increased musical range that these new records now give. The new SCOTT TELEMATIC is one of the very few instruments in the world today whose fidelity is great enough to reproduce the extremely wide range now being cut into the new High Fidelity records. You will agree, after listen-

ing to these new records thru the ordinary type of radio phonograph combination, then hearing the same records reproduced thru the new SCOTT TELEMATIC, that there is as much difference in the reproduction as there is between a black and white photograph of a landscape—and the same picture in natural colors.

### A Rare Pleasure

The rare pleasure of being able to choose *only the music you want—whenever you want it*—and the privilege of repeating it as often as you like, is possible only with recorded music. It allows you to select the correct music to fit your needs, the social occasion, or mood. And if a selection displeases you, *without moving from your chair*, the mere touch of a key on the Control Keyboard at your chair side, rejects the unwanted record, and replaces it with the next recording.

Instead of being required to endure the many inconveniences, limitations, and distractions, of the auditorium, the SCOTT TELEMATIC permits you to relax in the restful atmosphere of your own home, and enjoy a rare freedom of mind for appreciative concentration or lazy reflection upon the beauty of the music itself.

### The World's Famous Interpretative Artists Now Available

The owner of a library of carefully selected records has at his instant command a cavalcade of the world's finest performances—the eloquent interpretations of such outstanding organizations as the Pro Arte String Quartet, the Trinity Choir, the La-Scala and Metropolitan Opera companies, and scores of the most famous personalities in music today.

Now, you can enjoy these treasures to the utmost. Operas, vocal masterpieces by the world's greatest living artists, symphonic music, chamber music, suites, instrumental works, recorded by the famous orchestras of London, Paris, Berlin, New York, or Vienna.

### Modern Records Now Include All of the World's Greatest Music

If you have not looked thru the recent record catalogues you will be amazed at the vast repertoire of music available today in High Fidelity records, for you will find most of the world's greatest music has now been eloquently recorded.

Some idea of the completeness with which the entire musical field is being recorded by the modern electrical recordings may be had

by glancing thru a recently published encyclopedia of recorded music. *A total of nearly 700 composers of serious worth are listed, and the tabulation of their recorded works covers 566 pages.*

Only the world's greatest music has been listed in this book—no dance selections, popular songs, or any similar music is included. The bare listings of the recorded music of Bach, Beethoven, Brahms, Handel, Chopin, Mozart, Schubert, Verdi, Wagner, Dvorak, Liszt, and Tschaikowski averages nearly 30 columns for each composer! The dance and popular music recordings are published monthly and usually number several hundred selections.

Many music lovers insist that they now prefer listening to a superlative High Fidelity recording to hearing an ordinary rendition of the same composition in the auditorium or concert hall, and this preference is quite easy to understand. Good music, like good literature, demands something from the listener—primarily an appreciative mood and close attention. What better place is there for such concentration than in the quiet seclusion of your own home?

**Scott Automatic Record Changer  
Plays Complete Symphony  
or Opera**

The SCOTT Automatic Record Changer used in combination with the SCOTT

*The  
Brentwood*

**Specially designed for installation of the Scott Automatic Record Changer with provision for storage of record albums. The Brentwood measures 30½" wide, 15½" deep and 22" high overall.**



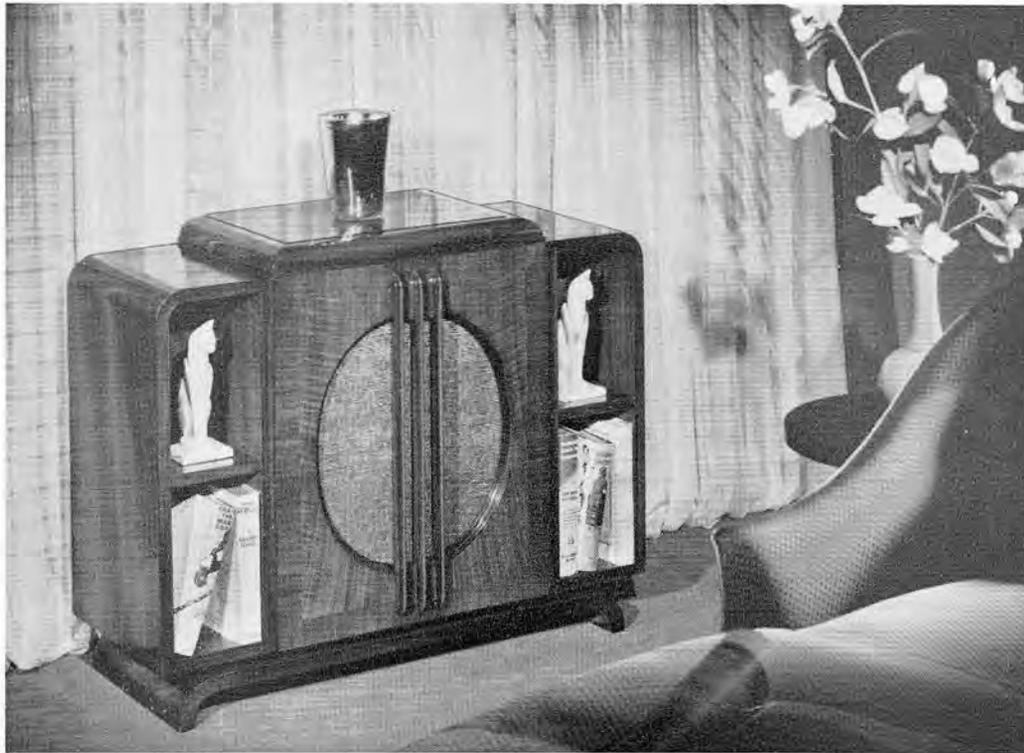
TELEMATIC to reproduce recorded music, is a precision built instrument . . . designed to hold 8 records, either 10" or 12". Simply place in the magazine the records selected, and touch a key on the TELEMATIC Control Keyboard. Then without further attention the complete Symphony, Opera, or other records selected will be played thru, changing automatically when the record is finished and providing nearly an hour of continuous entertainment.

Five very beautiful consoles have been designed to hold the SCOTT TELEMATIC and SCOTT Automatic Record Changer, and two small compact special consoles, The Dover and Brentwood, are available for those who want to conceal the SCOTT TELEMATIC in a closet or separate console, and prefer the Record Changer in a separate console that can be placed in a convenient location at side of a settee or by the side of a chair.

*The Gothic  
Grande*

A splendid example of fine furniture craftsmanship in classic Gothic design of selected American Walnut throughout. Side and top panels beautifully hand carved in linen Fold design. An air of subdued richness characterizes this sturdy example of authentic period design. 30" wide, 20½" deep, 49" high.





## *The Moderne*

A strikingly beautiful speaker console designed to scientifically distribute sound and give perfect tonal reproduction in every part of the room. The Moderne measures 31 $\frac{3}{4}$ " wide, 13 $\frac{1}{4}$ " deep and 25" high overall.

## REMOTE SPEAKER CONSOLES DESIGNED FOR THE SCOTT TELEMATIC

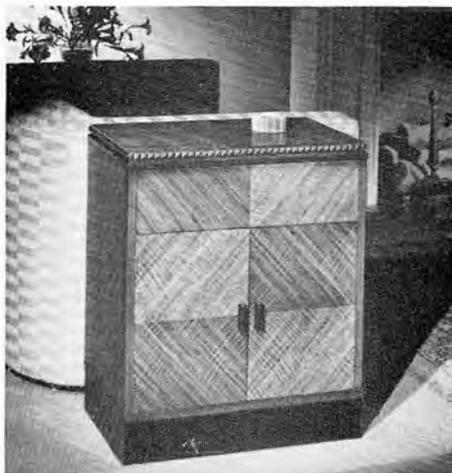
Owing to the fact that the Scott TELEMATIC tuning chassis and amplifier can be installed in a closet or in some location outside the room where the actual reproduction is required, we have designed a number of special consoles which house the speaker only. This type of installation is particularly suitable where space is at a premium in the room.

The present type of radio is too bulky and probably also too expensive for the

majority of people to install in each room. For this reason, where a radio receiver is required in rooms other than the living room, small midgets are used, the tone of which generally leaves much to be desired. However, each of the speaker consoles illustrated will now provide just as fine reception and reproduction in every room in the home, as the main installation in the living room.

The Dover console is designed so that

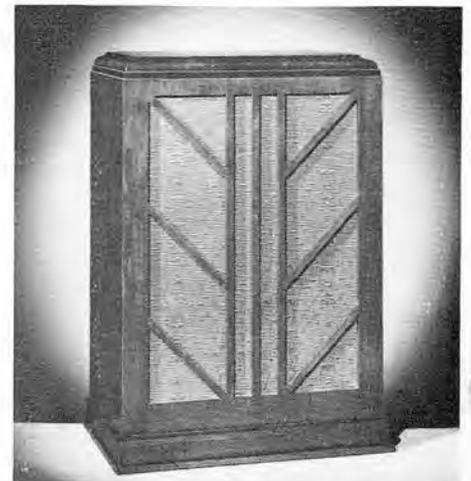
the top portion accommodates the Scott Automatic Record Changer, while the lower portion can be used as storage space for record albums, or if other arrangements can be made for the storage of the records, then this lower space can be used to accommodate the speaker. This provides a most convenient arrangement for those who desire the Automatic Record Changer for reproducing recorded music as well as the TELEMATIC for the reception of programs off the air.



**The Dover**



**The Kenilworth**



**The Cambridge**

# SPECIALLY DESIGNED CUSTOM BUILT INSTALLATIONS

Scott Receivers are installed in many fine homes in which the furniture is of a certain period, and special consoles must be designed for the installation. We have now concluded arrangements with America's outstanding maker of fine traditional and contemporary furniture—Tapp Inc.—to design and provide custom built housings for Scott High Fidelity Receivers and Phono Combinations, where special consideration must be given to a harmonious blending with the furnishings and decorative plan of the home.

They will not be "radio cabinets" as we know them today, but, as illustrated

in the two sketches below, are beautifully designed pieces of furniture of superb quality, adapted to accommodate the new Scott TELEMATIC and Scott High Fidelity Receivers and Phono-Radio Combinations.

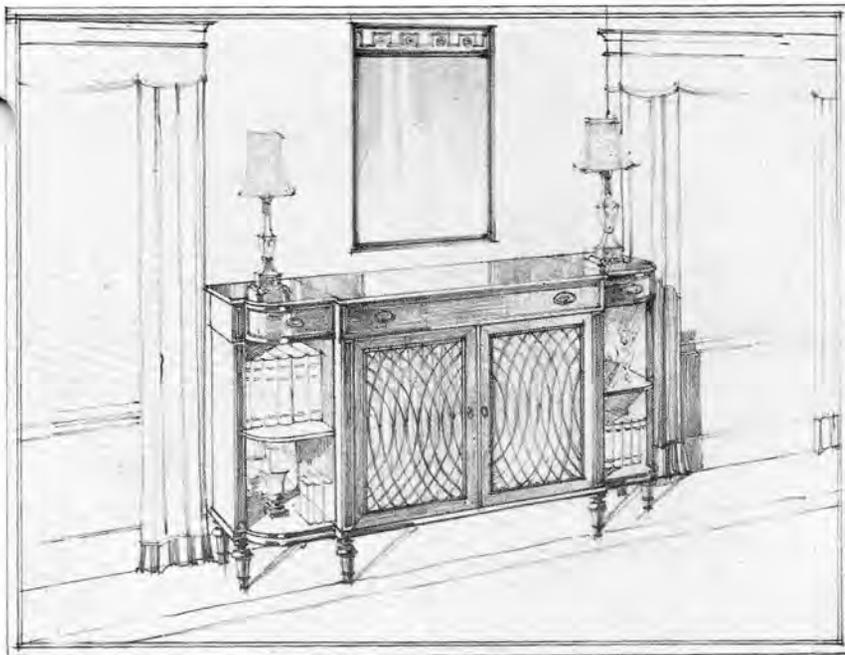
This furniture, just as the Scott receiver, is inspired by a single ideal, to make the finest product that present day craftsmanship can produce, and offers you the utmost in charm, good taste and quality.

Because this furniture is handcrafted and custom built, as is every Scott receiver, only the finest of materials are used in its construction, enabling the

selection of any woods, ornamentation and finishes needed to achieve a pleasing and welcome addition to the room in which the receiver is to be placed.

Designs may be had in all types and sizes of pieces, and in all periods or styles, such as English, French, Italian, Venetian, Early American and Modern. Your own special designs will be carried out, or we are prepared to submit designs to fulfill your personal ideas and requirements.

The two sketches below, the Regency Credence and the Sheraton Book-cabinet, will give some idea of the quality and type of furniture that can be supplied custom built to special order.

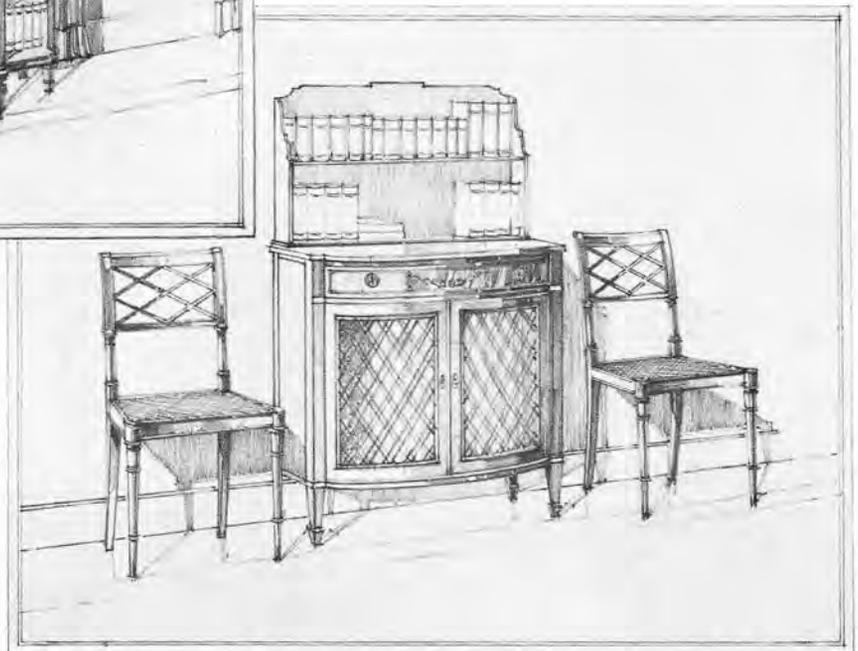


## *Regency Credence*

This unusually fine example of the Regency Period, circa 1785, made of selected Cuban Mahogany, with fine hand-made brass grilles, designed for the new SCOTT TELEMATIC and Scott Automatic Record Changer. Behind the grille doors are located the speaker, amplifiers and five compartments for record albums. The open shelves have mirror sides and backs, and a small drawer is fitted at either end. This Regency Credence measures 18¼" x 58" x 35¾" high overall.

## *Sheraton Book Cabinet*

Fine example of Sheraton Book Cabinet, circa 1795, made of Cuban Mahogany, inlaid with white holly and adapted to accommodate a SCOTT TELEMATIC and Program Selector Clock. This book cabinet can also be fitted with the Scott Automatic Record Changer. The speaker and amplifier are located behind the metal grille doors. Remote Control operation is provided for both Radio and Record Changer. This Sheraton Book Cabinet measures 19" x 35" and 56" high overall.





*View Showing How Scott Telematic May Be Installed in Basement, and Operated in Living Room.*

## SCOTT TELEMATIC MAY BE CONCEALED IN CLOSET OR INSTALLED IN BASEMENT

The SCOTT TELEMATIC will appeal particularly to those whose furnishings in the room in which they wish to listen to the radio are so complete, that a radio console might throw the decorative



*Built-in Speaker in living room with concealed Scott TELEMATIC installation.*

scheme out of balance. When installed in these homes, the entire mechanism of the SCOTT TELEMATIC can be concealed completely in any available closet space down in the basement as shown in the illustrations, in a small compartment built into the wall itself, or on a library shelf behind dummy leather book faces (which we can furnish if desired).

When the SCOTT TELEMATIC is installed in this way, there is nothing in sight to disturb the present arrangement of your room furnishings except the small Compact Control Keyboard, scarcely larger than the palm of your hand, which may be placed anywhere in the room, on an end-table, coffee-table, desk, or on the arm of a chair. The reproduction may come either from one of our small compact speaker consoles, shown on page 10, or the speaker itself may be built into the wall with a decorative grille in front as shown in the illustration on this page, or concealed entirely by placing a tapestry in front of the speaker.

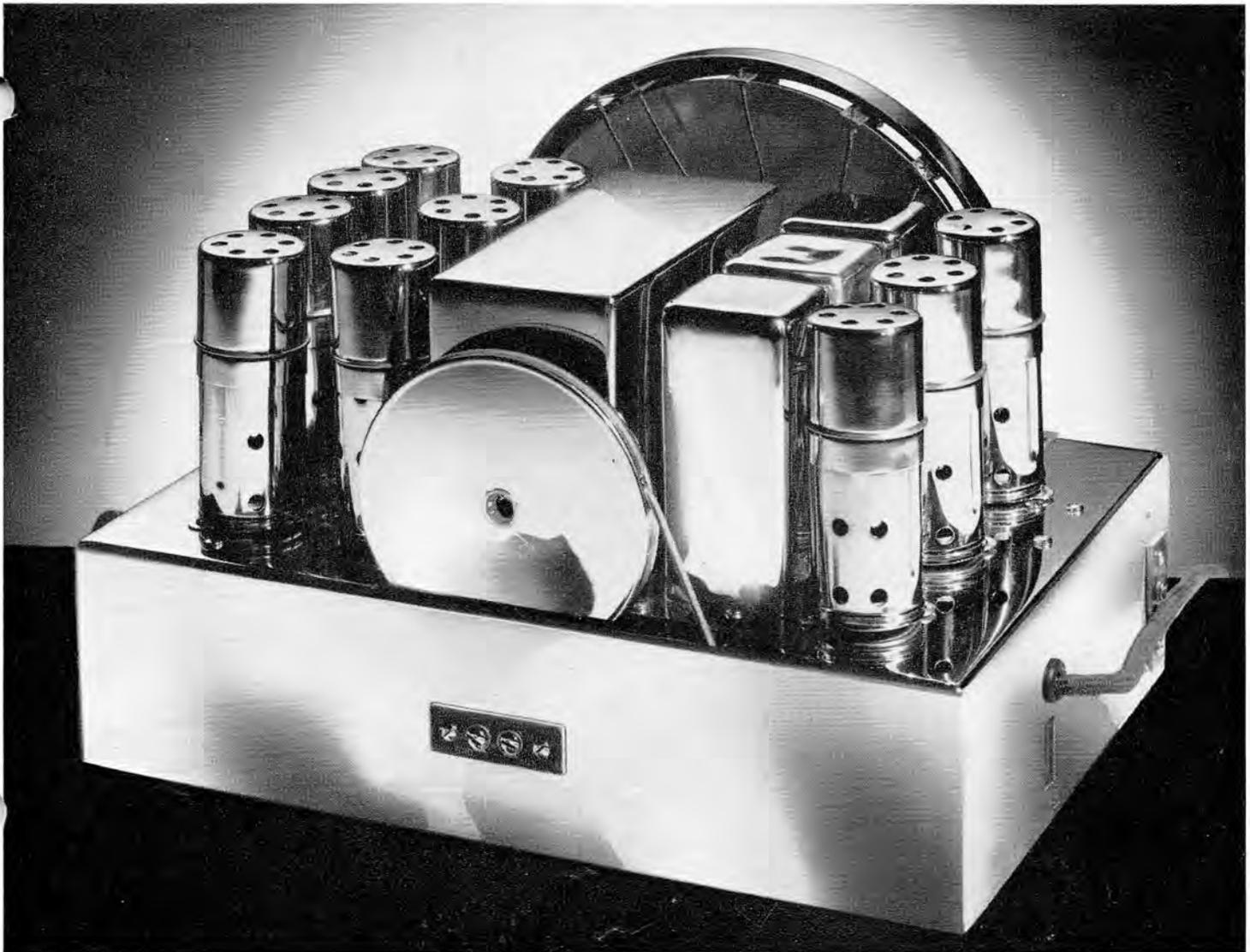
The speaker may also be built into one

of the other pieces of furniture in the room, such as a section of an end-table, or any small cabinet now being used for other purposes.

We shall be glad to submit suggestions for special installations of the SCOTT TELEMATIC, where a concealed or semi-concealed installation is required.



*An ideal installation of Scott TELEMATIC in clothes closet.*



# THE SCOTT TELEMATIC

TECHNICAL DETAILS OF A NEW MUSICAL INSTRUMENT SO ADVANCED IN DESIGN THAT IT MARKS AN ENTIRELY NEW ERA IN HOME ENTERTAINMENT

The new SCOTT TELEMATIC is the result of nearly a year's intensive development in the Scott Research Laboratories, and we believe it definitely marks a new era in radio receiver design. It is an entirely new and different instrument which eliminates dials, knobs, and switches either for tuning in the favorite stations you regularly listen to or reproducing records. Instead of jumping up and down to go over to the radio to switch the set on or off, tune stations in and out, raise or lower the volume, or play your favorite recordings, with the SCOTT TELEMATIC in your home you sit in your favorite chair, touch a key on the small Control Keyboard by your side, and instantly you can: (1) bring in any one of 12 stations, (2) raise or lower the volume, or (3) play records.

## The Basic Circuit

The SCOTT TELEMATIC is of such advanced design that for the present no circuit diagram can be published until several important patent applications have been filed. It

incorporates 14 latest type tubes and is designed for reception of broadcast-band stations between 540 kc and 1600 kc, thus including the new super fidelity stations already in operation.

As in the case of any instrument which performs perfectly in all its functions, the SCOTT TELEMATIC is based on sound and *proved* engineering design. Many exacting requirements have been accurately met in order to provide the ultimate in reliable, interference-free, high fidelity radio reception and automatic reproduction of recorded music.

## Amazing Overall Fidelity

Outstanding among these achievements in SCOTT TELEMATIC performance is the remarkable overall fidelity which enables this instrument to perfectly reproduce *the complete frequency range transmitted from the finest broadcast stations in the country.*

This remarkable high fidelity response is attained by virtue of the many highly developed circuit elements in this instrument, outstanding

among which are (1) the Bandpassed Intermediate Frequency Amplifier, (2) the Diode Driver, (3) the Audio Amplifier, and (4) the Sound Projection System.

## Newly Developed Band Passed I. F. Amplifier

Radio engineers and others familiar with the intricate details of Band Pass Intermediate Frequency Amplifier design will be amazed at the performance of the system employed in the SCOTT TELEMATIC. Perfect high fidelity response is obtained by virtue of the 13 kilocycle broad practically flat "nose," while a remarkable degree of selectivity and adjacent channel rejectivity results from the extremely steep straight sides.

An ideal characteristic of this degree of perfection can only be attained by the use of many high Q circuits, in cascade, operating in a perfectly stabilized, shielded and filtered circuit. In the SCOTT TELEMATIC, instead of the usual five or six tuned circuits, *twelve*

high Q tuned circuits (in addition to the oscillator) are operated in cascade at all times. Thus the full performance of every element of this new instrument is contributing at all times to the delightfully perfect reception which entrances all who hear it.

The I. F. amplifier system alone contains three specially designed I. F. transformers each containing three high efficiency Litz wound inductors tuned with permanently stabilized silver electrode condensers, and accurately adjustable high frequency powdered iron cores. Coupling between successive inductors is accomplished by the use of separate coupling coils in order to avoid the usual excessive capacity coupling which results in dis-symmetry of the I. F. transmission curve shape. *Incidentally, the silver electrode condensers used in these I. F. transformers have such remarkably stable low-loss characteristics that they are becoming widely used as laboratory precision standards.* By using high capacity tuning condensers in the I. F. system the effects of variation in tube capacity, location of grid leads, etc., are rendered negligible, so that many years of flawless operation may be expected from this system.

### Distortionless Diode Driver Transformer

Following the two radio frequency and nine intermediate frequency tuned circuits is a special powdered iron core tuned diode driver transformer having three disk-type windings separated less than fifteen thousandths of an inch in order to prevent losses and handle loud, highly modulated signals without distortion.

### Special High Fidelity Audio Amplifier Covers Entire Range of Human Ear

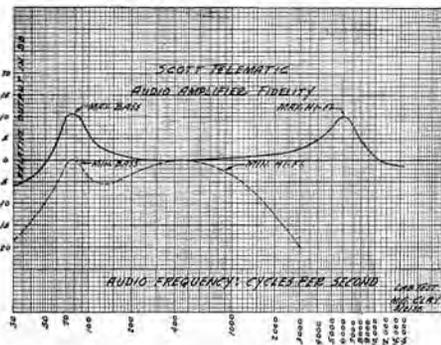
To all who love fine music in the home, and especially to the greatly increasing number of music lovers who have discovered the beauty of the new high fidelity recordings, the distortion-free fidelity of the audio system is of the greatest importance.

The actual laboratory measured frequency response characteristic curve of the entire audio system of the new SCOTT TELEMATIC is shown on this page. *Note that the maximum range of frequency response, indicated by the solid line, extends from 30 to 16,000 cycles, exceeding the audible range of most human ears.*

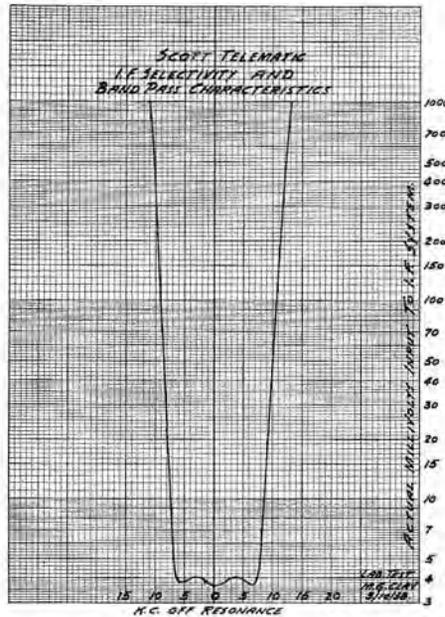
Certain portions of this range may be boosted, as indicated by the rising portions, by adjustment of the bass and high fidelity controls on the chassis. The dotted line indicates the frequency response obtained with the bass and high fidelity controls set at their minimum positions. Any desired response between these two extremes may be readily obtained by rotating one or both of these continuously variable controls.

### Distortionless Power Output

While these frequency response characteristics



are surpassed by no other instrument on the market today, they would be useless if it were not for the complete absence of audible distortion and the ample reserve power output provided by the SCOTT TELEMATIC. An examination of the power output curve will show that nearly maximum power is obtained



with less than 2% total harmonic distortion. This extremely pure audio output is obtained through two of the new Beam-Power amplifier tubes which are used—not as high gain amplifiers in order to obtain cheap construction—but rather as high percentage inverse feed-back amplifiers in order to obtain purity of output.

### New Sound Projection System

When attending a motion picture at a theatre having good acoustical qualities you have perhaps often noticed that words and music are much clearer, easier to understand, and more realistic than when heard over the average radio receiver. This is primarily because fine motion picture sound systems, which cost many thousands of dollars, have fidelity characteristics which are far superior to the average radio.

The new SCOTT TELEMATIC is equipped with a highly developed Sound Projection System which has been especially designed for the high fidelity characteristics of this remarkable instrument, and incorporates several principles used in the design of the costliest motion picture sound systems.

It consists of two separate projection cones, and as a result the distribution of the high tones (upon which intelligibility depends) is considerably better than when reproduced through the ordinary type of loud speaker found in radio receivers.

The main projection cone is curvilinear, that is, curved throughout its length, like a trumpet. It is made of long-fibre acoustical material and holds its exponential shape perfectly even on the strongest concert passages.

The auxiliary diffusing cone is coaxial with the main curvilinear cone. This smaller high frequency cone acts as a sound diffuser, not only improving the high fidelity characteristics to a great degree, but also making these higher tones and overtones pleasing and natural irrespective of where the listeners may be seated in the room. It should be noted that this system in no way resembles the dual cone radio loud speaker which contains a tiny center cone as an integral part of the outer cone.

Voice and music, when heard through the SCOTT TELEMATIC Sound Projection System,

are as clear, undistorted, and realistic as if you were personally present in the broadcasting or recording studio. To hear it is a revelation for those who demand a standard of tonal fidelity which is greatly superior to that which is available from the usual type of radio receiver or phonograph combination.

### Perfect Performance Permanently Assured

In order to make all of these engineering attainments permanently worthwhile it is of paramount importance that the electrical characteristics of the entire instrument be thoroughly and permanently stabilized in order to assure the owner that the high performance standards attained in the SCOTT TELEMATIC will remain unimpaired.

### Newly Developed Stabilized Oscillator

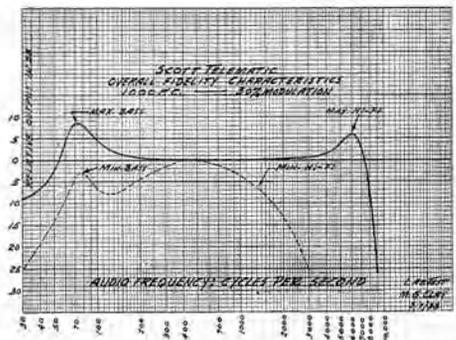
One important example of the degree of perfection which has been attained in the SCOTT TELEMATIC is the permanent stabilization of the oscillator circuit, a new development of our Research Laboratories, which makes certain that every station will always be tuned in "right on the head" as soon as you press the key in the Control Keyboard. This new type of oscillator system makes sure there will be no "drifting" or "creeping" of stations once they are tuned in. The usual oscillator system tunes only the grid or plate circuit, and voltage for injection of the oscillator potential into the converter system is taken from the grid end of the oscillator inductance. This system was not perfect enough for the SCOTT TELEMATIC, not only because it often results in harmonics due to random oscillations in an untuned coil, but also because the slightest change in the characteristic of the converter tube or supply voltage results in frequency drift.

In the SCOTT TELEMATIC the oscillator potentials are completely by-passed and filtered at the oscillator tube to prevent indiscriminate surging. Tube noise is kept at an absolute minimum in the converter tube by applying an unusually high oscillator voltage to its injector grid, thus producing maximum conversion efficiency.

Another new feature is the incorporation of a negative temperature coefficient circuit that offsets the small remaining drift which normally occurs with changes in temperature due to the fact that practically all insulating materials have positive temperature capacity coefficients. *Our laboratory tests show that by the use of this new principle, the oscillator frequency is held constant within a fraction of a kilocycle at any frequency at which it may be tuned—regardless of the temperature of the receiver or of the room in which it is being operated.*

### May Be Matched to Acoustical Response of Room

On the main chassis of the SCOTT TELEMATIC are two continuously variable controls



which enable you to accurately match the tonal response to the acoustical properties of any room in which it is installed. *Once set, these two controls need no further adjustment unless the instrument is moved into another room having greatly different acoustical properties.*

One of these controls is for adjusting the bass response or lower tones until they are most pleasing to your ears. It is a well known fact that many people like a preponderance of bass tones whereas others prefer them considerably reduced. The very highly developed bass accentuation system of the SCOTT TELEMATIC incorporates a specially designed high Q bass resonator circuit and provides a bass boost or accentuation of approximately 3 times (10db) in the maximum position of the control.

An amazing feature of this bass control system is that it does not appreciably increase the lower voice frequencies even when turned to maximum! This simply means that if you enjoy a rich full bass on music, merely set this control at maximum, but when a speaker or singer is heard (and the broadcast station is not faulty), the voice will not have that deep, boomy, and unnatural quality obtained from ordinary bass boosting systems. The human voice always remains clear, and natural.

The control which regulates the fidelity response also provides a wide frequency range and in its maximum position provides full high fidelity on both records and radio. Once the TELEMATIC is installed in the room, a short listening test with the bass and high fidelity controls set at various degrees, will enable you to arrive at the correct combination to exactly suit your ear.

### Stations Easily Changed at Any Time

The SCOTT TELEMATIC has been designed as a musical instrument for those interested primarily in programs from nearby stations on the broadcast band. The Control Keyboard has 12 keys under which the call letters of the 12 stations to which you regularly listen can be inserted.

If you desire to tune in stations on the broadcast band other than those on the Control Keyboard, this can be done by going over to the TELEMATIC chassis itself and tuning with the calibrated dial at the rear of the chassis which is provided primarily to enable you to tune in the stations you wish to set up on the Control Keyboard.

Should you at any time desire to set up other stations in place of those you originally choose, it can be done quickly and easily in a few moments. With your TELEMATIC you are furnished printed call letter strips, of all the U. S. stations on the air, of just the right size to slip under the keys.

### Volume Control from Your Chair

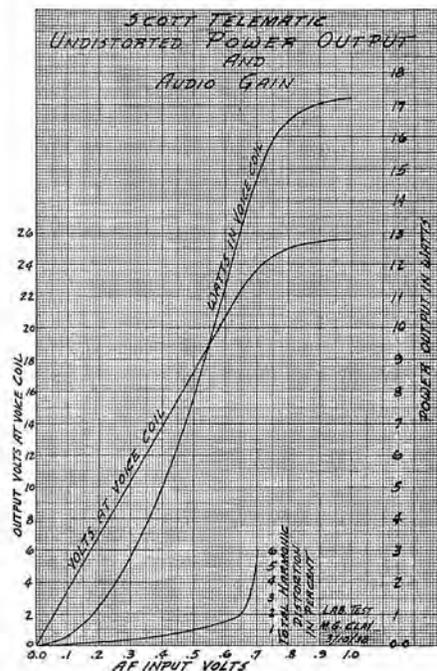
There are two keys on the Control Keyboard which enable you to raise or lower the volume and also to switch the set on or off. As you press the key marked "Volume On," the electric current is switched on, and a green pilot light in the center of the Control Keyboard lights up. The longer you keep your finger on this key the louder the volume becomes. Should you wish to reduce the volume, you simply press the key marked "Volume Off." As you hold down this key, the volume is slowly and gradually reduced until it is a mere whisper. Then, if you continue holding down the key for a few seconds after the music has disappeared, the current is turned off completely as will be indicated by the green pilot light going out.

### Remote Control to Play Records

If your SCOTT TELEMATIC is equipped with a Scott Automatic Record Changer, the magazine may be loaded either with eight 12-inch or 10-inch records before beginning your evening's entertainment. Then, at any time you may enjoy all or any part of this selection of recorded music by merely pressing the "Phono" key. The moment you press it, the radio program instantly disappears, and in a few seconds you hear the beginning of your first record.



The Scott High Fidelity Speaker with Curvilinear Cone and Special High Frequency Diffuser.



The instrument plays each record, one after another, in the sequence you have arranged providing over 40 minutes of continuous entertainment. Then, at the end of this period, when the records have been completely played through on one side, merely turn over the stack of discs (a 10-second task), and they will be automatically played through on the reverse side.

The more extended recordings, such as chamber music, operas, and symphonies may now be purchased for automatic operation in the "AM" type albums which have the first part on the top of No. 1 record, the second part on the top of No. 2 record, the third part on the top of No. 3 record, etc. If the album contains say six records, the sixth part will be on the top of No. 6 record, then the complete stack of records is simply turned over, and the seventh part will come on the bottom of No. 1 record, the eighth part on the bottom of No. 2 record, the ninth part on the bottom of No. 3 record, etc. In this way the complete work is played through continuously, excepting for the short 10-second pause necessary to reverse the stack of records.

When the last record in the magazine has been played, the record changer will automatically stop. This simply means that you can turn on the record playing unit, then give it no further thought, for it will turn off of its own accord when the last record has been played through. However, the record playing mechanism can be turned off at any time, or any given record may be instantly rejected, by merely pressing the "Phono" key.

### Surface Noise or Needle Scratch Eliminated

The presence of needle scratch when listening to records has always been the great objection raised by musicians and many laymen who are interested in good music. Various methods have been tried in order to reduce it.

One very common method is to use a type of pickup which does not reproduce frequencies higher than about 3,500 cycles. However, this seriously impairs the beauty of the music, for modern high fidelity records have a frequency range as high as 10,000 cycles. The "scratch range" extends from about 1,500 to 10,000 cycles, and if a pickup is used which reproduces only those frequencies under 3,500 cycles, the scratch is considerably reduced, but the higher frequencies above 3,500 cycles, which give timbre and individuality to the music, are completely lost.

Another variation of this system is to install a control whereby the user is able to cut down the high frequency response, thus reducing both scratch and important musical frequencies.

Both systems are widely used, and while they effectively reduce the scratch, the resulting reproduction is very little better than the old acoustic gramophone. All the life is taken out of the music, making it sound muffled, boomy, and unnatural.

If a good quality high fidelity pickup is used, the higher frequencies or overtones are reproduced, but so is the scratch. Many musicians, while objecting very much to this scratch, refuse to allow it to be eliminated at the expense of the higher frequencies which are necessary for vivid, lifelike reproduction. They are willing to tolerate the scratch in order that they may hear the beautiful overtone range which is recorded on the new higher fidelity records. A development of our Research Laboratories (Scott Patents Applied For) has at last made possible the full enjoyment of recorded music,

for it automatically eliminates needle scratch without affecting the full natural reproduction of the higher frequencies at normal volumes! As the result of this very outstanding development, recorded music can now be heard with all of the sparkle and life of the original. It makes possible a degree of pleasure that simply cannot be realized until you have heard an actual demonstration!

### Why Power Amplifier Is Separate Unit

The average mass-production radio receiver or phonograph combination combines the tuner and the Power Amplifier on the same chassis. For those who are not critical, or where tone quality is a secondary consideration, this factor is of little importance. However, in designing the SCOTT TELEMATIC the chief aim was to perfect an instrument which would give you the finest tone quality on both radio and records.

During the many years we have been designing and building only the finest instruments for electrical sound reproduction we have found that in order to secure maximum efficiency and performance, the Power Amplifier

must, for a number of reasons, be built on a separate chassis.

If the bass response of a radio receiver or phonograph combination extends down to 30 cycles, hum picked up from the power transformer is practically unavoidable if this unit is an integral part of the tuning chassis. *By using two separate chassis we are able to avoid this hum so frequently heard on other receivers, and at the same time, extend the bass range of the instrument to include frequencies down to as low as 30 cycles.*

Another reason why two separate chassis are used in the SCOTT TELEMATIC is because the natural heat arising from a Power Amplifier may seriously affect the many delicate tuning adjustments in a receiver. Therefore, our thermal isolation of the Scott Power Amplifier is another important factor contributing to the accuracy and permanence of the circuits in the SCOTT TELEMATIC.

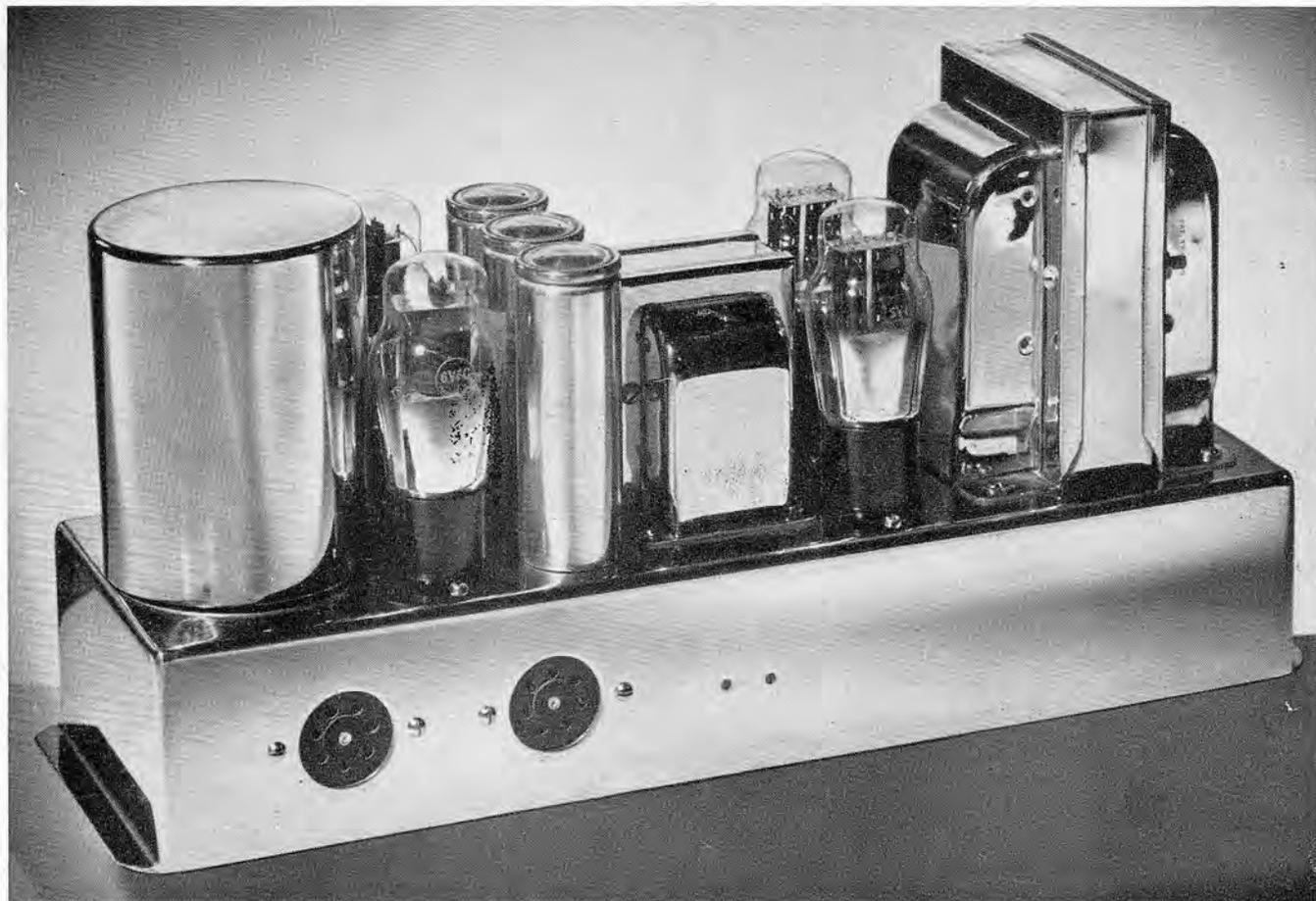
### High Quality Parts Used

The SCOTT TELEMATIC is a high quality Custom Built instrument constructed from the same quality parts that are found in the finest laboratory precision equipment. For ex-

ample, all critical tuning condensers are of the silver electrode type . . . special low-loss six layer celanese insulation is used on all shielded leads in the R.F. circuits . . . hermetically sealed ceramic resistors are used throughout . . . air condensers are used in all tuned R.F. circuits . . . plate voltage and bias resistors dissipate heat externally to reduce the possibility of frequency drift through excessive heat which would otherwise change the characteristics of tuning coils and condensers . . . heavy duty chokes are used in a circuit which prevents lamination buzzing and hum . . . both chassis of the SCOTT TELEMATIC are of heavy rugged 16 gauge steel . . . all parts are finished in gleaming chromium. These are only a few details of the internal construction which insure continuous trouble-free service over a period of years.

### Our Guarantee

Every part of the SCOTT TELEMATIC is fully guaranteed (except tubes) for One Year (instead of the usual 90 days) against defects in either workmanship or material and will be replaced free of charge when returned to the laboratories provided chassis seals are not broken or the instrument tampered with.



THE SCOTT TELEMATIC POWER AMPLIFIER.

# THE E. H. SCOTT RADIO LABORATORIES, INC.

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