

SCOTT STEREO

The Exciting World of Quality Components, Kits and Speakers



AN INTRODUCTION TO: STEREO



Hermon Hosmer Scott . . . Audio Pioneer

Hermon Scott has received both B.S. and M.S. degrees in Electrical Engineering from M.I.T. He holds more than 50 patents, many for truly basic work in the field of electronics. The reputation of Scott products is based on their unquestioned engineering excellence. This engineering leadership derives from the unyielding standards maintained by Hermon Scott and his outstanding group of audio engineers.

An Introduction to Stereo

H. H. Scott, the world's foremost manufacturer of fine high fidelity equipment, brings your family a wonderful way to enjoy beautiful stereo music in your home. This is the way record reviewers, professional musicians and critical music lovers have chosen for greatest realism. This new way utilizes separate components . . . an amplifier, a tuner, a record player and

speakers . . . which combine to make up a music system of unsurpassed quality.

H. H. Scott components are easy to choose . . . fun to use. They are the product of painstaking research and development . . . creative engineering . . . skillful, patient manufacturing. Each Scott component receives more than 50 separate tests before it is awarded the famous Scott Double Guarantee. This care in design and manufacture means that your H. H. Scott system will perform perfectly through many years of continued use. We know you will be as proud to own Scott Stereomaster Components as H. H. Scott is to make them.

In this new guide we show Scott components and describe their function and appearance. We explain stereo, high fidelity, and new FM stereo (multiplex), and show you what to look for when choosing your system. We tell how to use components and illustrate easy ways to place them in your home. All pertinent technical information is included and explained to help you select the proper system to suit your needs and your budget.

What is High Fidelity Sound?

High fidelity sound re-creates in your own living room the true beauty and depth of the original concert hall performance.

There are two systems of high fidelity, "monophonic" and "stereophonic." A monophonic recording is entirely on a single channel. The output from one microphone (or the mixed outputs from a group of microphones) form this channel. With a stereophonic recording, a double system is used, resulting in greater realism. In its simplest form, two groups of microphones are placed at different sides of the orchestra to provide material for the two recording channels. To play the recording back, a two-channel system is required. At least two separate speakers are used, one to the right and one to the left. You can hear stereo three ways: either from records, tape, or from new FM stereo broadcasts.

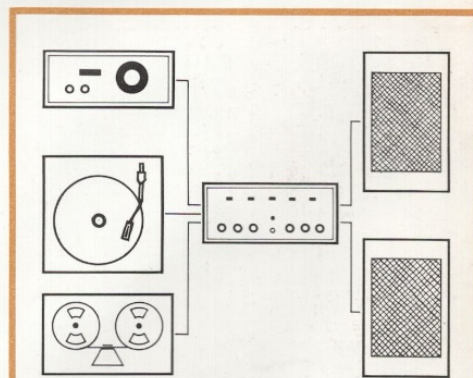
Why is Component High Fidelity Better?

With components the value is concentrated in the electronic equipment. When you buy components you pick the particular parts you want to fill your needs and plug them together to form a complete system. With components you can separate the loudspeakers from the record playing equipment so that speaker sound vibration will not interfere with the perfect reproduction of the recording. You can place the speakers far enough apart for perfect stereo, and put the components where they look best decoratively.

What are the Different Components in a High Fidelity System?

The Tuner captures the radio waves from the air. There are two kinds of radio transmission: AM and FM. Most ordinary table radios receive AM only. FM is a newer form of static-free radio broadcasting being used to transmit many good music programs. FM stations can broadcast either stereo or monophonic programs. You can buy either an FM stereo tuner, or an AM-FM stereo tuner depending on your needs.

The Turntable is a precision piece of equipment, made as carefully as a fine watch. Associated with the turntable is the arm and



The function of the various Stereo components is actually quite simple to understand. There are three basic parts to a complete music system. First is the sound source, which can be either a record player, radio-tuner, or tape deck. These provide a very small electrical signal which must be amplified and controlled by a control amplifier. This amplified signal is then fed to the two stereo speaker systems, where the signal is converted to sound. The system can be further simplified by combining the tuner and the amplifier into one piece of equipment as Scott has done with its new 340B tuner-amplifier.



The clean, uncluttered lines of Scott components blend beautifully with furnishings of any period. Here two Scott kits, the LT-110 FM stereo tuner and LK-72, 80 watt stereo amplifier, mounted in

two Scott oiled walnut cases are placed on modular wall units. Two Scott unfinished S-3 speakers are behind the grille cloth at the ends of the bookcase.

Photo courtesy Herman Miller

pick-up cartridge. The cartridge holds the diamond phonograph stylus and transforms the movement of the stylus in the record groove to electrical signals. Record changers are sometimes used instead of turntables, although in a true high fidelity system the turntable is preferred.

The Amplifier is the link between the tuner or turntable and the speakers. The amplifier strengthens the minute signals fed into it by the tuner, tape recorder or record player and turns these signals into electrical impulses strong enough to drive the speakers. It is with the amplifier that you control the sound . . . make it louder or softer . . . or change the tonal balance to suit your ears.

The Speaker. It is here that the carefully controlled electrical signal is changed into sound waves you can hear. The speaker and its enclosure are ideally purchased as an integral unit. The enclosure is as important to the speaker as the sounding board is to the strings of a piano.

How to Have Custom Stereo in Your Home with Scott Components

Component stereo is actually "Custom Stereo." Because components are separate units, you can choose the parts you want and need to fit your budget and your room. These compact electronic units fit anywhere, even in rooms where you might think that installation of a fine stereo system is improbable.

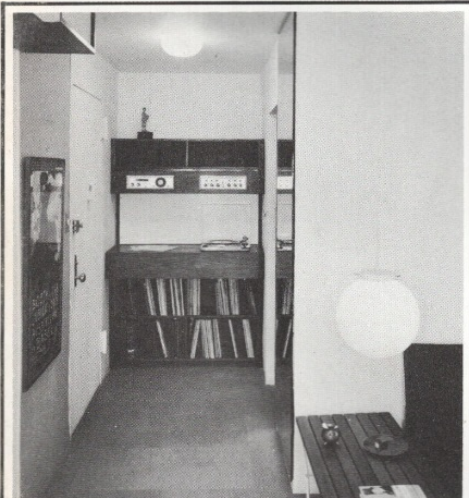
Attractive slip-on cases are designed to fit all H. H. Scott components, which make the components so handsome in themselves that they can be placed anywhere right in these cases.

H. H. Scott components can be placed in furniture you already own, on tables or in bookshelves. They can be used in cabinets designed especially for components, in standard furniture simply adapted to components, or custom-installed in walls, doors or panelling.

1. In Furniture You Already Own . . .

You can arrange components easily in popular antique furniture like a dry sink, buffet, or chest. An H. H. Scott component takes only about one square foot of space. For contemporary homes where living and dining rooms are in the same area, components can be tucked into a buffet or hutch cabinet. The equipment can be concealed with tambour, hinged, caned, louvered or reversible doors. Equipment can be neatly displayed on a shelf that usually houses china. You can put components on a bookshelf, along with art objects, and shift them later to a cabinet to suit your changing tastes.

An H. H. Scott system gives you exceptional flexibility. The equipment can be decoratively



With versatile, compact Scott components such as the 350C FM Stereo Tuner and 222D stereo amplifier shown above, you can install a complete music system in your home — even when space is limited. This imaginative installation is located in what used to be a closet. The door was removed and a two-part cabinet was installed. Scott S-2 speakers are located near the ceiling in the adjacent living room. Designed by Virginia W. Kelly.

Photo courtesy N. Y. Times



Custom installation is easy with Scott stereo components. A single cut-out is all that's needed . . . then the components simply slip into place, like a drawer. This smart music wall houses Scott's unique Electronic Music Center, the remarkable 340B tuner-amplifier. A pair of Scott speakers and a record changer complete this easy-to-install music system.

assembled on a corner table, a window shelf, in a desk compartment, or housed in its own handsome cabinet. Many apartments have built-in wall closets which are ideal for music systems. Simply set the components on the shelves. If the closet doors have a wire grille, upholstery or curtain fabric can be placed behind the grille, concealing the components and giving the room decorative unity.

2. In Special Cabinets Designed for Stereo Components . . .

There is a wide selection of furniture, made specifically for stereo components, available from the same dealer who supplies you with the components themselves.

These cabinets come in a variety of sizes and finishes, usually with space for a record player, amplifier, and a tape recorder. Record storage space is provided in many of the cabinets, or in matching cabinets that hold hundreds of stereo records. Installation is a matter of minutes, and you have a handsome unit blending perfectly with the feeling and decor of your rooms.

3. In Standard Furniture Adapted to Stereo . . .

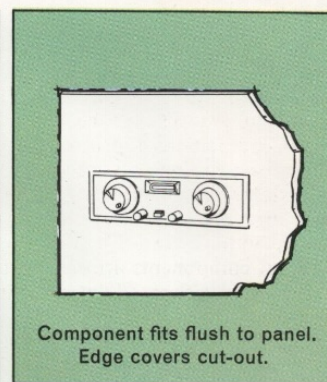
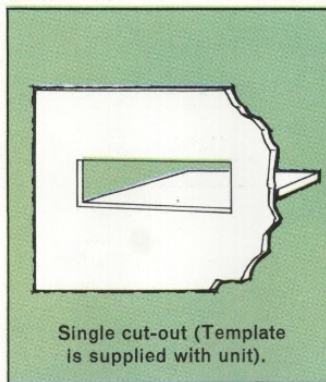
Most fine furniture stores have available cabinets readily adaptable to H. H. Scott stereo components. Since the components measure only about 15" wide by 13" deep, a small shelf will hold them.

Decorators frequently use H. H. Scott components in buffets, hutch cabinets, storage units of all types, or in small end tables. Components hide away in any piece of furniture with doors. The only adaptation required in most cases is the drilling of small holes in the back of the furniture for ventilation. This does not alter the appearance of the furniture. Most furniture stores can do this for you in a few minutes.

The advantage of components in this case is obvious. You don't ever have to settle for a bulky mass-produced console when you use Scott components which are so compact you can slip them into any piece of furniture you desire.

4. In Custom Built-In Installations . . .

The growth of the high fidelity industry has brought with it specialists in the decorating field who are also trained in audio installations. More and more people are consulting decorators to design and construct music systems in their homes. In most cases these systems are built into the wall and concealed by wood panelling. Special units can be designed to house any combination of equipment (high fidelity system with speakers, record storage, tape recorder, etc.). Only one simple cut-out is required to panel mount an H. H. Scott component.



This beautifully designed music corner includes a complete stereo system with FM stereo tuner, record player, tape recorder and TV. Scott S-3 speaker systems are built-in behind the grilles at both ends of the counter. The distressed fruit-

wood cabinets house the Scott 310E FM stereo tuner and 299D 80-watt stereo amplifier. System was designed and installed by J. Servetnick and R. Churnick, Boston.

Scott Stereo . . . Easy to Buy and Use

Purchasing Scott stereo components is easy. There are more than 500 franchised Scott dealer showrooms across America. Audio specialists at these showrooms will be glad to demonstrate Scott components for you, and help you select those best suiting your needs.

Installation is simple. You can do it yourself, or your Scott dealer will install your system for you at modest cost.

Scott components are easy to use. The panels are marked with small dots showing typical knob settings, so any member of your family can play your system. Many Scott components come with a convenient "Photo-Guide." Even without



Even a simple, attractive bench makes a perfect setting for flexible Scott stereo components. As the 370B FM stereo tuner and 200 B 30 watt stereo amplifier like all Scott components take only about one square foot of space, they fit easily on most units of this type. Scott S-3 speakers are placed across the room for maximum stereo effect. Photo courtesy N. Y. Times

these special helps, you can learn to use Scott components in a short time.

Most controls are set once to conform to the acoustics of your room. You use only the volume control, the off-on switch and the selector switch with any regularity.

As you will see on the next few pages, Scott makes a variety of components in many different price ranges so that you can select those that best suit your needs and your budget. Your Scott stereo system need not be expensive. You can purchase a component system for as little as \$30 down at most dealers and arrange convenient budget terms.

There is no need to compromise in selecting your stereo system. You can have the best for your family at moderate cost. Your stereo system will look attractive and be designed for your needs. Visit your nearby Scott showroom now for a demonstration.

How FM Multiplex Works

How FM Stereo (Multiplex) Works

Multiplexing is a method of broadcasting two or more signals from one FM transmitter. This means that a single FM station can broadcast both the left and right channels of a stereophonic program using records, tapes, or live performances.

What is Needed to Enjoy FM Stereo?

The listener needs only a tuner equipped for multiplex plus the usual accoutrements of stereo (a dual channel amplifier and two speakers). Operation is not complex. You just tune to one station as you do now for regular FM broadcasts, and you hear true stereophonic sound with all the advantages of FM — freedom from noise, interference and distortion.

How Multiplex Stereo Works

Humans are capable of hearing sounds between about 20 and 20,000 cycles per second. Any sound above 20,000 cycles per second is referred to as "supersonic" because it is above the range of human hearing.

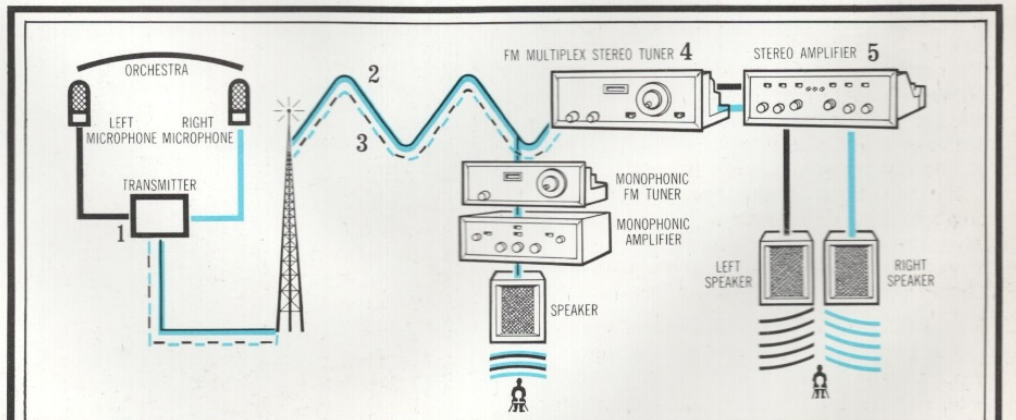
Most good FM tuners are capable of reproducing these supersonic frequencies above 20,000 cycles per second ("cps" for short).

Though you cannot hear them, these supersonic frequencies are used very effectively for multiplex. At a frequency of 38,000 cycles per second (cps), high above the sounds you can hear, the second (stereo information) signal is added on. While you can't hear this second signal, your FM tuner can, and, if equipped for multiplex, will convert this into sound you can hear — stereo sound.

Conventional narrow-band tuners cannot give the fine stereo quality obtained with Scott Wide-Band tuners. As the FCC pointed out, the approved multiplex stereo system ". . . like any multiplex transmission system, will increase energy transmission at the edges of the channel involved. Accordingly for optimum stereophonic reception, the (tuner's) bandwidth . . . must be considerably greater than that of monophonic (tuners) . . ."* Scott tuners have always had the wider IF bandwidth needed. Therefore, if you now own a Scott tuner, you are assured of receiving the finest, most outstanding stereo separation, matching the FCC transmission specifications.

New FM Stereo will bring you thrilling broadcasts of world famous symphony orchestras and opera companies . . . intimate close-ups of jazz in stereo . . . dramatic presentations with life-like movement. You will hear the wonderful new sound of FM multiplex stereo in your home . . . and using Scott equipment, you will be able to make flawless off-the-air stereo tape recordings.

*See paragraph 36, FCC Report and Order, Docket No. 13506, 4/19/61.



1. FM multiplex station transmits left and right signals on a two-part radio carrier.
2. Main part of carrier contains a combination of left plus right (L + R).
3. Multiplex part of carrier contains the difference between left and right (L - R) which is the stereo information.
4. FM Multiplex Stereo Tuner receives both parts of the carrier, sorts it out into separate left and right signals. A monophonic tuner would not separate the signals, so the listener would hear a combined sound.
5. Stereo amplifier strengthens each signal, sends it separately to the appropriate speaker, so you hear the program in stereo.



FACTORY ASSEMBLED COMPONENTS BY

SCOTT

CHOICE
OF THE EXPERTS

Scott equipment has long been the choice of leading musicians, engineers, radio stations, the military, and professional users who must have the most reliable audio instruments. Scott's reputation is, first and foremost, built on engineering leadership. A list of just a few of the many Scott inventions and design developments indicates the degree of this leadership.

The invention of the Dynamic Noise Suppressor by Hermon Scott in 1946 paved the way for the high fidelity industry as we know it.

The 210A Dynaural Amplifier developed in 1947 was the first true high fidelity amplifier.



WCRB, like many radio stations around the world, uses Scott instruments for transmitting and monitoring stereo broadcasts. Typical of their comments is this quote from Richard L. Kaye, WCRB station manager, "... Scott surpassed our greatest expectations ... gives outstanding stereo reception ...". This is typical of the enthusiastic responses of broadcasters everywhere.

The first "flat" amplifier, the Scott 99A, introduced in 1952, brought high fidelity out of the laboratory and into the living room.

The first successful wide-band FM tuner, the 310A, was developed by Scott in 1954. This marked a turning point in tuner design — one that reached its climax with the introduction of multiplex stereo in 1961 when it became neces-

sary for all high fidelity tuners to use wide-band circuitry. Just one example of Scott's years-ahead concepts.



Typical of the rigorous, professional requirements that only a Scott instrument can consistently meet is the installation on top of rugged Mt. Washington in New Hampshire. Here a Scott 310 FM tuner is used to pick up signals from Boston 130 miles away, for relay to Northern New England and Canada. Parker H. Vincent, Chief Engineer, reports, "The tuner has given eminently satisfactory results. We believe this to be one of the longest successful rebroadcast hops ever ..."

The first quality FM-AM stereo tuner, the 330A, in 1955 provided the listener with Scott's pioneering wide-range AM which was virtually indistinguishable from FM sound.

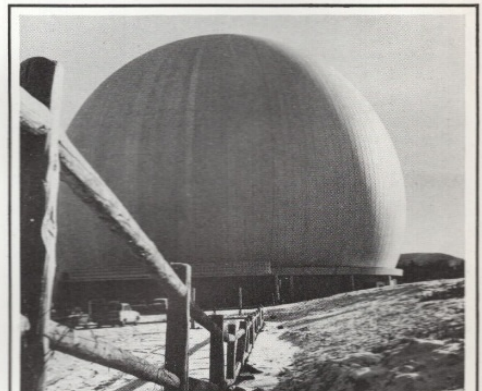
The Model 299 introduced by Scott in 1959 proved to be the first successful stereo amplifier design, and the most popular.

Scott's years of research into the problems of multiplex reception bore fruit when the FCC approved a method of transmitting stereo by FM in April of 1961. Scott equipment was on the market and in the hands of FM broadcasters within 30 days, making possible the immediate success of FM stereo. Scott's Time-Switching multiplex circuitry has been acclaimed as the

finest means of receiving multiplex and is already the standard of the industry.

Now in 1963, Scott's advanced engineering team takes the high fidelity industry into the space age with solid state amplifiers and tuners of quality and reliability that meet Scott's exacting standards. Once again Scott leads in audio engineering and design.

Scott's reputation among the experts is echoed by the thousands of music lovers who, through the years, have relied on Scott products for the finest in music reproduction. On this page a few of the many applications for Scott equipment are pictured. Scott is always the choice when unquestionable reliability and high performance are needed.



When the scientists at Bell Laboratories decided to investigate the ability of the Telstar satellite to receive and retransmit FM signals, they selected a Scott 310 for their tests. The tuner was installed at the Earth Station for Satellite Communication at Andover, Maine, where the tests were made. They proved to be a complete success. Scott was proud to be part of this historic experiment.

The engineering excellence of Scott equipment which makes it the choice of the experts, makes it also the logical choice for you in your own home. When quality and reliability are your primary considerations, Scott is your primary choice.



Unique assembly line techniques. After every 3 assembly line steps, there is an "in process" inspector who checks for "cold," or unsoldered joints, lead dress and short circuits. Here we see one of these "in process" inspectors giving one of the 50 such checks each Scott component receives before being shipped.

Your selection of a component high fidelity system will be made only with careful thought and serious investigation. This is as it should be, for your selection represents a major investment.

One of the more important aspects in determining your selection of a home music system is the assurance that the manufacturer stands behind the equipment he produces. You must know, for instance, about the reliability of the equipment, what guarantee the company offers and how this guarantee is backed up. With these questions in mind, let's carefully examine Scott's policy.

Assurance of Performance

DOUBLE GUARANTEE — Scott's remarkable "Double Guarantee" is your assurance that Scott components will provide you with years of outstanding trouble-free performance.

TWO YEAR WARRANTY — All Scott components, kits and factory wired units, have every major part, including power and output transformers, capacitors and resistors, fully guaranteed for two years. If, under normal usage, any part should fail, Scott will repair or replace the part at no cost. Vacuum tubes and transistors are covered by the standard 90 day period unless otherwise stated.

LABORATORY STANDARD GUARANTEE — Of all leading companies only Scott guarantees that every component: tuners, amplifiers and tuner/amplifiers, will meet or exceed every published specification. Actual proof of this remarkable claim is found in reading equipment reviews in leading independent magazines. For instance, *Audio Magazine* in July, 1963 stated, "... We have never tested an H.H. Scott product that did not meet its published specification." *High Fidelity* reported that Scott "... met

How SCOTT Protects Your Investment

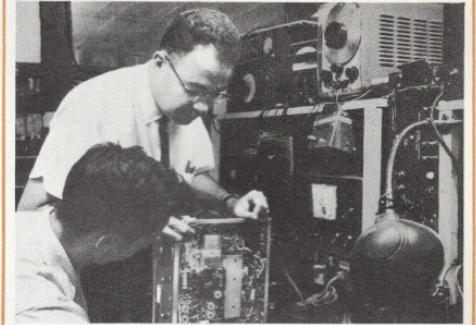
or exceeded specifications . . ." (February, 1963). In the October, 1962 issue of *Popular Electronics*, the editors found that Scott "... met or exceeded all the manufacturers' detailed specifications . . ." The December, 1962 *High Fidelity* reported that "... rigorous test measurements either confirmed or exceeded the units' published specifications . . ."

As unique and remarkable as the "Double Guarantee" is, it only partially begins to tell the full story behind every unit that leaves the factory. Let's look into the story behind this guarantee and find out just why, and how, Scott can offer such remarkable assurance:

QUALITY CONTROL — Scott's quality control procedures start with the individual parts used in each unit. The parts found in Scott units are rated conservatively and only the highest



Long component life is assured by rugged "life test" rack. Here production units are subjected to "on-off" cycles and voltages far in excess of those encountered in home use. Three months on this rack is equal to 10 years of normal use.



Here Scott's Chief Research Engineer oversees tuner test procedure in one of the many specially designed tuner screen rooms. All tuners are tested and aligned in these completely shielded rooms to assure perfect accuracy. No tuner is approved for shipment unless it meets or exceeds published specifications.

quality ones are used. This means that each part in a Scott unit is capable of handling electrical "loads" and heat far in excess of that encountered in normal use. Each part, including switches, tubes, filters and transformers, is carefully inspected before being used on the production line. This assures that the finished unit will have long life and exceptional performance.

Scott has the most rigorous quality control procedures in the industry. Each Scott unit receives at least 50 separate quality checks. No Scott product leaves without passing these tests especially devised by the Quality Control engineers. In addition to electrical tests and measurements, each unit is subjected to "listen test" by a specially trained technician.

AFTER THE SALE — Scott feels its responsibility to you really begins after the sale is made. For this reason, two important services are provided for you. First, Scott maintains a vast network of warranty service stations. These carefully selected agencies are kept constantly up-to-date on all aspects of Scott units. Many are factory-trained, and all are well versed in high fidelity music systems. Scott also maintains a staff of technical writers whose sole concern is to see that you obtain maximum performance from your home music system. These services available to the Scott owner after his purchase clearly point out the unique interest Scott takes in the units it produces.

All of these ingredients and more are part of the unique Scott guarantee. From every aspect, Scott stands behind the equipment it produces. Scott can do this only because of superior design, exceptional quality control procedures, and far-reaching customer services. Scott's fine reputation is based on customer satisfaction.

Scott Kits

For many years, Scott investigated the idea of introducing their components in kit form. Kits then on the market were too uncertain . . . wiring diagrams were extremely complex . . . alignment and balancing required special test equipment . . . kits looked unattractive and bulky. Scott engineers took an entirely new approach . . . revolutionized the industry by producing for the first time kits that were both fool-proof and enjoyable to build.



THE EXPERTS ACCLAIM SCOTT KITS

"The Scott instruction books should be a model for the industry. They feature full-color, step-by-step, illustrated directions. Each resistor or other component is shown in the progressive phases in its color code and in its proper position."

American Record Guide

"The packaging and instruction manual for the Scott LK-72 kit help make the assembly and wiring of this amplifier painless and even pleasurable. Each stage of the work is carefully explained, with text and illustrations that leave little or no room for error, and which were obviously prepared with more than a passing sense of humor . . . this is a neat, attractive, very well-designed kit, and one which gives every assurance of successful completion even in the hands of the inexperienced or first-time kit builder."

High Fidelity

"No commentary on Scott Kits would be complete without first mentioning that this company

pioneered new areas in the hi-fi kit market and brought forth several (then-radical) innovations. One of them continues to fascinate all purchasers of a Scott Kit — the full-color instruction manual. Carefully matched to each colored wire and component within the kit, this manual renders the possibility of even the most inexperienced builder making a mistake rather remote.

"Scott also pioneered the Kit-Pak — a shipping container which serves as a temporary work-bench and storage box. Thanks to the Kit-Pak, the builder can put the uncompleted kit away overnight without worrying that something will be missing the next day."

Popular Electronics

"So simple to build that we unhesitatingly recommend it for even the novice."

Audio

"... a model of packaging... Scott's full-color illustrated construction books are the finest in the kit field . . . these kits are more 'beginner-proofed' than any I have come across."

American Record Guide

"It took us less than 7 hours to put together and that includes alignment. . . . Without hesitation we would recommend the . . . Tuner Kit to the beginner as well as the more experienced Audiofan. . . . Surely only the most sophisticated engineering thinking could design a kit as simple and foolproof as this one is. . . ."

Audio

"... a remarkable combination of simplicity and excellent performance. . . . Scott's packaging and instructions . . . are outstanding . . . pictorials are big, color-coded, and easy to read. The chassis is extremely roomy and all connections . . . are easily made. Scott's combination of a silverplated front-end and a chassis with copper-bonded-to-aluminum . . . undoubtedly plays an important role in the . . . sensitivity — which checked out *better* than Scott's published figures. . . . The achievement of 1.88 microvolts sensitivity by a *home alignment procedure without instruments* is an exceptional feat and a fine tribute to Scott's engineering. . . ."

Electronics Illustrated

Here's Why Popular Electronics says

"it's Difficult to imagine a kit much simpler to assemble..."

Exclusive Full Color Instruction Book "eliminates just about the last possible chance of wiring errors . . ." Every part and every wire are shown in natural color and in proper position.

Part - Charts — Each full color illustration is accompanied by its own Part-Chart another Scott exclusive. The actual parts described in the illustration are placed in the exact sequence in which they are used.

Much of the uninteresting mechanical assembly is completed when you open your Scott Kit-Pak. All the terminal strips and tube sockets are already permanently riveted to the chassis.

There are certain areas in every professional high fidelity component where wiring is critical and difficult. FM front ends and multiplex sections are an example. In Scott kits these sections are wired at the factory and thoroughly tested by Scott experts.

To insure accuracy all wires are pre-cut and pre-stripped to proper length.

Tuners are aligned with the unique Scott Ez-A-Line® method using the meter on the tuner itself. This assures perfect alignment without expensive test equipment.

You assemble your Scott kit right in the unique Kit-Pak container. It opens to a self-contained work table with all parts conveniently in place.

All electronic parts are the same high quality specified for Scott factory-wired units and are protectively packaged on carefully identified plasticards.



Scott Amplifiers

299D 80-Watt Stereo Amplifier — The most widely used, highly respected stereo amplifier made . . . the latest version of the amplifier recommended by all leading testing organizations. Now with handsome new panel, knobs and lights, the 299D sets the same high standard in appearance that it has long established in performance.

Switched front panel headphone output permits private listening without use of loudspeakers. Rugged 80-watt output stage assures low distortion reproduction of even the lowest frequencies. Special jewel signal lights make it easy for any member of the family to operate this extremely versatile amplifier.

222D 48-Watt Stereo Amplifier — This moderately priced amplifier offers the power, the features, the looks and the reliability to make it the best seller in its field. Heavy duty output transformers provide superb bass response even with inefficient speaker systems.

A speaker switch and front panel headphone output permit private listening with the speakers silenced. A powered center channel output supplies audio output to an extension speaker system or a center channel speaker without any additional amplifiers.

Special features include separate tone controls for each channel, DC on preamp tubes for lowest hum, and Scott's patented balancing system to assure equal level from both speakers. Only the finest conservatively rated parts are used. The all-aluminum chassis construction assures efficient cooling and reduces hum to inaudible levels. The 222D is the ideal amplifier to build a quality music system around.

200B 30-Watt Stereo Amplifier — Typical Scott quality, performance and features at a budget price. The new Model 200B will deliver full-rated power way down to the low frequencies, where the power is really needed. Among the many features of the 200B are: Dual tone controls, tape monitor, front panel stereo headphone output, all aluminum chassis, and massive output transformers. Derived center channel output to drive power amplifier for extension speakers.





The LK-72 80-Watt Stereo Amplifier Kit —

The new LK-72 is the latest version of the most popular high power integrated stereo amplifier kit ever produced. Every conceivable control feature is found on this versatile amplifier including a switched front panel headphone output to permit private listening without use of loudspeakers, and provision for driving a third or center channel loudspeaker system without additional amplification.

The exclusive full size, full color instruction book combined with the Scott Part-Chart construction procedure make the assembly of this amplifier simple and fool-proof. Conservatively rated at 40 watts per channel, the LK-72 is truly one of the finest amplifiers available in either kit or wired form.



LK-48 48-Watt Complete Stereo Amplifier Kit—

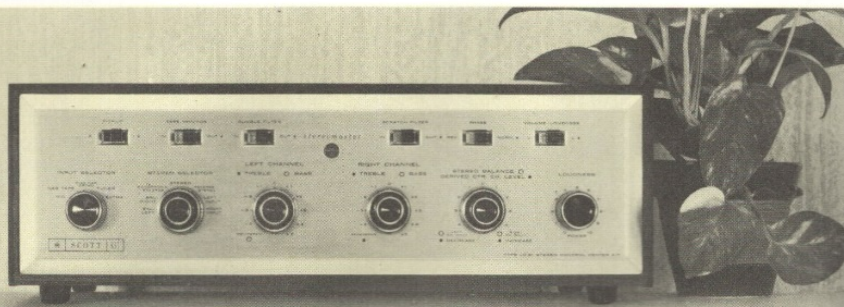
This deluxe amplifier has more than enough power for the vast majority of music systems. Each of its rugged 24-watt output stages are measured to strict IHF standards. They will deliver rated power down to 20 cycles per second.

The all new LK-48 now has two exciting new convenience features: a switched front panel headphone output for private listening without speakers, and a powered center channel output that will drive extension speakers or a center channel speaker without additional amplification. All the other luxury features that you expect in Scott Amplifiers are here, including all aluminum chassis, and DC operated heaters for lowest hum.

LK-30 30-Watt Stereo-Amplifier Kit —

A remarkable budget-priced amplifier kit with all the power, performance, and features of amplifiers selling for much more. The hefty, oversized output transformers provide power down to the lowest audible frequencies. This conservatively rated stereo amplifier will drive even inefficient loudspeakers to full room level. The handsome, good looks — the wide range of operating controls — make the completed kit a tremendous value at any price.

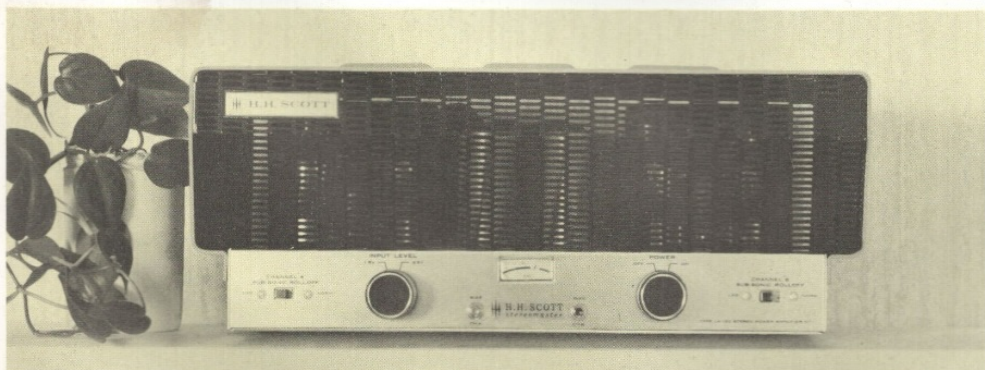
Like all Scott kits, the LK-30 is a joy to assemble. There is no reason for budget-minded music lovers to settle for less than the best.



LC-21 Deluxe Stereo Preamplifier — A preamplifier designed for the audio perfectionist. No effort has been spared to provide this unit with professional control features.

The complete control complement permits you to adjust for any conceivable type of program material or installation. Among the outstanding features are: electronic phase reverse; dual low-level magnetic input provisions (for connecting both a record player and tape deck); scratch and rumble filters as well as complete tape recording and monitoring facilities.

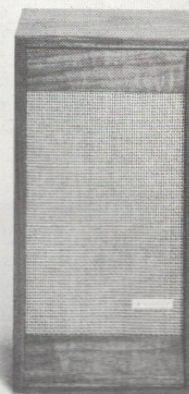
Scott Preamp/Power Amp Kits



LK-150 130-Watt Stereo Power Amplifier — The mighty LK-150 is the ultimate power amplifier. Rated at 65 watts (IHF) per channel, it will bring out details in your favorite program material that you never knew existed.

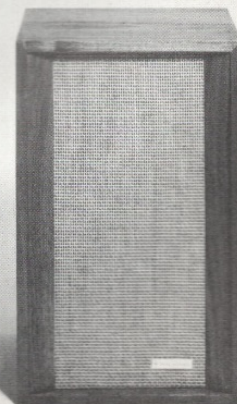
At low frequencies, where power is really needed, the LK-150 will effortlessly supply a clean 65 watts (IHF) per channel (measured at 20 cps). For all practical purposes, distortion and non-linearity do not exist. Even the finest test equipment cannot accurately measure the extremely low distortion.

Scott Speakers

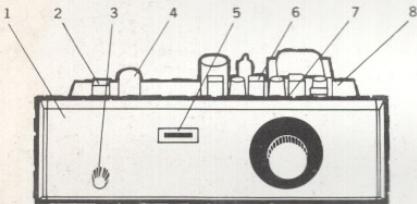


S-2, S-3 — Shown here are two exceptional Scott speaker systems. The Model S-2 (below) is possibly the finest speaker system available. Its smooth, full response is unsurpassed. The S-3 (above) is of true bookshelf size, measuring only 9¾ inches deep. Its ability to reproduce the low end of the sound spectrum is surpassed only by the S-2.

All Scott speaker systems incorporate three-way design, utilizing separate woofer, mid-range and tweeter units. Unique multiple crossover networks insure that all the advantages of three-way design are realized. Handsome in appearance, these speakers add to the attractiveness of any room decor.

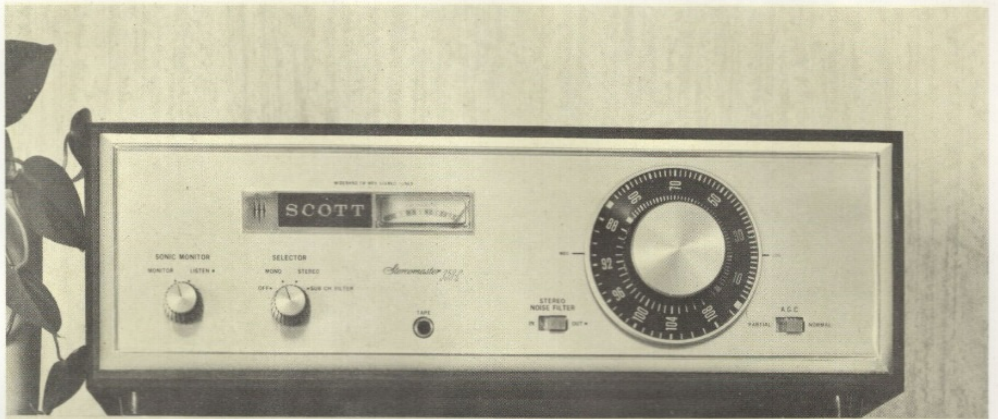


Scott Tuners

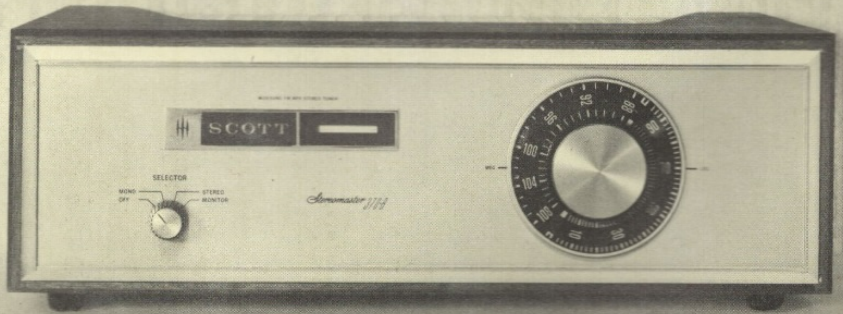


Special Features Found in all Scott Tuners:

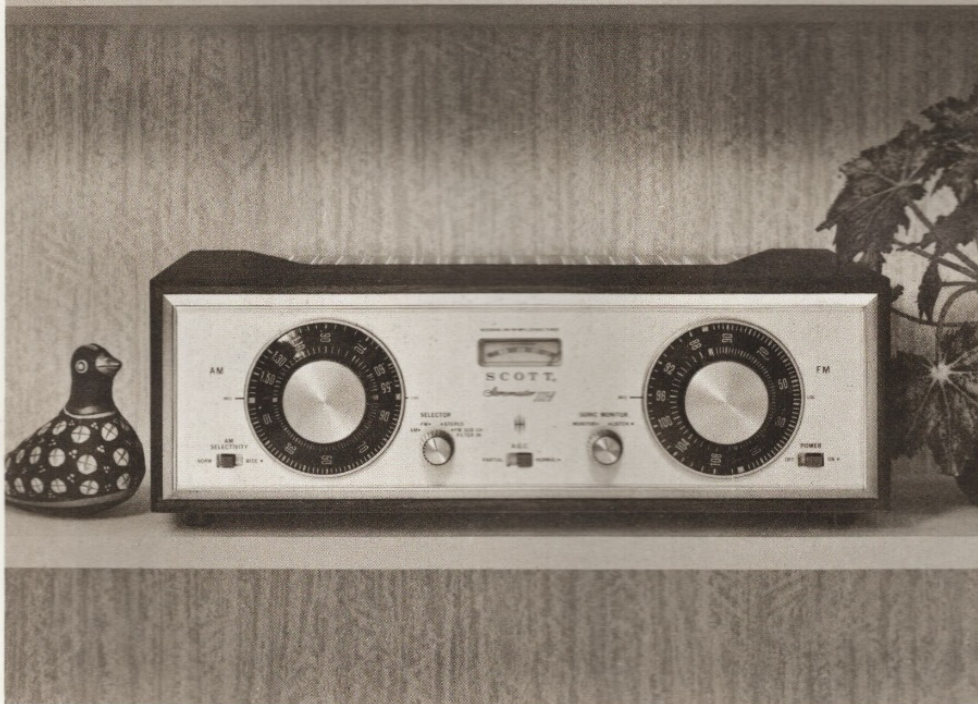
1. Special circuitry assures interference-free tape recording.
2. "Time Switching" multiplex circuitry.
3. Unique, positive identification of stereo broadcasts.
4. Ultra wide band detector assures best stereo reception, maximum rejection of interference, complete freedom from drift.
5. Precision illuminated tuning indicator assures best reception.
6. Wide band IF's contribute to best selectivity of all tuners (IF "strip" is also copper plated).
7. Silver and copper plated front end for maximum cross modulation rejection, high sensitivity.
8. Aluminum chassis assures maximum signal retention, eliminates magnetically induced hum and noise.



350C Wide-Band FM Stereo Multiplex Tuner — Latest version of the most popular FM multiplex tuner includes Scott's exclusive Sonic Monitor which tells you automatically when stereo is on the air. Newly restyled, and refined circuitry provides a combination of superior performance and outstanding appearance. Time-proven features pioneered and perfected by Scott include heavily silver-plated front end for maximum sensitivity with almost complete elimination of cross modulation. Scott-designed "Time Switching" multiplex, the industry standard, provides full frequency response with extremely low distortion and stereo separation exceeding FCC specifications.



370B FM Stereo Tuner — This moderately priced tuner offers amazing cross modulation rejection and sensitivity in addition to complete freedom from drift and excellent stereo separation made possible by use of the Scott-pioneered "Time Switching" multiplex circuitry. Beautifully styled with heavy extruded gold anodized panel, the 370B offers one of the most outstanding values in FM stereo tuners. Scott's exclusive "Sonic Monitor" locates the stereo station, and guarantees best stereo separation. The use of space age compactron tubes provides outstanding FM stereo performance at moderate cost.

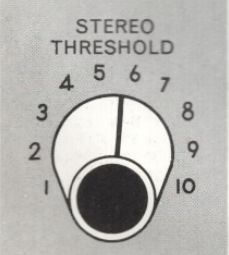


310E Automatic FM Stereo Tuner — Now the world-famous 310 tuner is fully equipped for stereo reception. The 310 is considered the most outstanding FM tuner available. It is used for commercial applications and critical broadcast relay work throughout the world. Its extreme sensitivity, selectivity, and low distortion make it the logical choice for the most critical installations. The new 310E is equipped with the famous Time-Switching multiplex circuitry, pioneered by Scott. Auto-Sensor circuitry automatically switches the tuner to stereo when you tune to a stereo broadcast. Stereo Threshold permits you to adjust for the minimum acceptable stereo broadcast. Unique switch allows you to receive stereo broadcasts *only*. No other broadcasts will be received. For the audio enthusiast who requires the very finest tuner possible at the present state of the art, the 310E is the obvious choice.

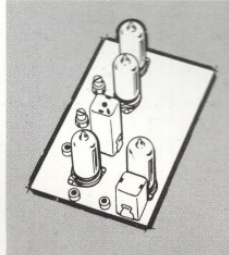
333B AM/FM Stereo Multiplex Tuner — Newly restyled to fit perfectly into the most elegant surroundings, this versatile tuner lets you enjoy either FM multiplex stereo, regular monophonic FM, regular AM, or AM/FM simulcasts at just the flick of a switch. This astonishing flexibility is attained by combining all the features and circuitry of the famous Scott 350C wideband tuner with the unique Widerange AM section of the popular Scott 330 D AM/FM tuner. Two position AM bandwidth switch makes AM listening practically indistinguishable from FM. Sonic Monitor* tells you when FM stereo is on the air and a precision meter insures accurate tuning of both AM and FM. Naturally, this outstanding performer includes Scott's silver plated RF front end and time-switching multiplex section. The ideal choice for the listener who wants the best in FM listening along with quality AM reception

Review Quote: HIRSCH-HOUCK LABS, EW '63
"The 333 is one of the most flexible tuners made. It ranks with the best FM Stereo Tuners and is the finest AM Tuner we know of on the current market."

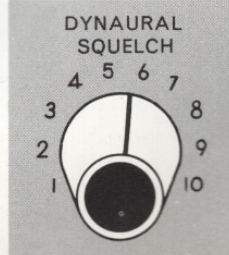
*Patent Pending.



The Stereo Threshold Control, an exclusive Scott feature, assures noise-free reception and perfect off-the-air recordings. If the stereo broadcast happens to suddenly get quite noisy due to atmospheric conditions, the tuner will automatically switch to monophonic operation which is often much quieter under these conditions. The front panel threshold control permits you to set the minimum acceptable performance level that will cause the tuner to switch to monophonic mode.



Amazing Auto-Sensor circuitry automatically detects the presence of a stereo FM broadcast and instantly switches the tuner to the stereo mode. An indicator light flashes on to tell you of the change. When the stereo program is over, the tuner immediately returns to monophonic operation. You never have to know when stereo is on the air.



Scott's unique interstation noise suppressor automatically turns off the audio when tuning in-between stations. This eliminates the rushing noise found on all tuners when off-station. Common squelch circuits accomplish this by changing the bias on the audio tubes, thus causing increased distortion and thumps in the speaker. The 310E avoids these pitfalls by using an electronically controlled mechanical relay. The user can set the threshold level for the suppression on the front panel of the tuner.

Until Scott introduced its first tuner kit in 1960, even experienced kit builders shied away from assembling an FM tuner unless they had laboratory instruments available. The necessity for accurate, precise alignment and part placement made this no job for the amateur. The instantaneous success of the Scott LT-10 revolutionized the kit industry. Here was a tuner kit that anyone could build and make work perfectly without special instruments. Here was



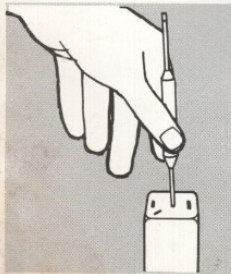
a tuner kit that was actually easier to build than most amplifier kits.

Since that time thousands of delighted music lovers are using and enjoying their Scott tuner kits. Most had never built any kit before. Now Scott offers two superb stereo tuner kits that are even easier to build than the famous LT-10. Whether you are a beginner or a professional, one of these two kits will prove ideal for your requirements.



LT-110 FM Stereo Multiplex Tuner — Now you can have the fun of building your own Scott FM stereo tuner with famous Scott Sonic Monitor.* The front end and multiplex sections are pre-wired and pre-aligned at the factory, assuring ideal reception and stereo quality even in weak signal areas, and eliminating the need for elaborate test equipment in alignment. "The LT-110 is so simple to build that we unhesitatingly recommend it for even the novice . . . We found that the usable sensitivity (IHF) was 2.1 (μ v). . ." *Audio Magazine*. *Patent Pending.

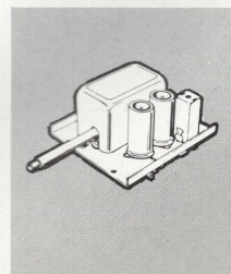
LT-111 FM Stereo Tuner Kit — From the famous Scott engineering laboratories . . . an amazing low priced FM stereo tuner kit that performs like higher priced Scott units. All the exclusive Scott features you want and need are included: "Time-switching" multiplex circuitry, Wide-Band design, Sonic Monitor stereo indicator, precision tuning indicator. Scott engineers used new Space-Age compactron circuitry to assure perfect performance at a budget price.



The unique Scott Ez-A-Line alignment method permits the kit builder to perfectly align his unit by using the tuning indicator on the front panel. No expensive laboratory test equipment is needed. Tuners aligned by novices will consistently meet or exceed conservative Scott specifications.



Scott's unique Sonic Monitor* provides a positive, reliable indication of FM stereo broadcasting. By tuning to the cleanest tone you automatically achieve best possible stereo separation. Locating a stereo broadcast is now simple and foolproof. *pat. pending.



Only Scott of all manufacturers heavily silver and copper plates cascode RF front ends to attain maximum sensitivity and most reliable performance. The front end is pre-wired and pre-aligned at the factory. The wideband front end is a major factor in the tuner's remarkable ability to reject spurious response.

Scott Tuner/Amplifiers



Professional musicians, engineers, broadcasters and audio enthusiasts have long enjoyed superb stereo sound with Scott high fidelity components. The new Scott Electronic Music Centers make it easy for everyone to enjoy stereo this professional way. This new electronic miracle takes all the complexity out of stereo . . . it's easy to connect . . . easy to use . . . and brings you a marvelous new kind of stereo enjoyment.

All you do is place the Tuner/Amplifier in any convenient spot in your home . . . on a table . . . in a bookcase . . . or even built into special furniture. Then connect two speakers and place them anywhere that they look and sound best. The amazing flexibility of these new Tuner/Amplifiers lets you fit stereo into your decor rather than having to build your decor around stereo.



340B FM Stereo Tuner-Amplifier — The radically new 70-watt 340B FM Stereo Tuner-Amplifier combines all the features of the finest Scott components into a single compact unit. Amazing Auto-Sensor circuitry automatically chooses between stereo and monophonic FM broadcasts. A speaker/earphone switch and front panel output jack allow private monitoring of the program with earphones. Powered center channel permits driving of third speaker without additional amplification. The handsome new styling and advanced electronic features set new industry standards for a tuner-amplifier.

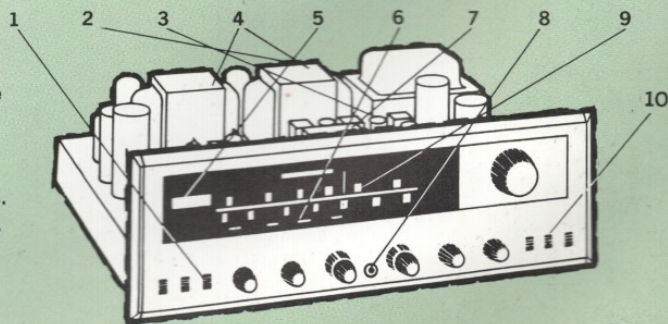


380 — Combining all the features of the 340B, the new Scott 380 also contains the famous Scott Wide Range AM section which Hirsch-Houck Labs called "the finest AM tuner we know of on the current market." Front panel Band selector permits AM reception of distant and local stations with sound almost indistinguishable from FM. Equalization switch allows selection of either phono or tape head. Truly the outstanding unit of its type.

In any area where AM reception is essential, combined with the finest possible stereo performance, the 380 is the obvious choice.

Look at these Important Features:

1. Complete tape monitoring facilities. All controls operate on playback.
2. Powered third channel for direct connection of remote speakers or for a three-channel system.
3. Auto-Sensor circuitry instantly and automatically chooses correct mode of operation.
4. Massive power and output transformers that assure the superb performance ordinarily found only with separate components.
5. Precision illuminated d'Arsonval meter for pinpoint tuning of all signals.
6. Unique indicator lights prevent inadvertent use of Tape Monitor control.
7. Silverplated RF circuitry, the same used in the tuner selected by Bell Laboratories for one of their pioneering Telstar experiments.
8. Convenient front-panel low level output for monitoring of program.
9. Easy-to-use, easy-to-read precision slide-rule tuning mechanism, with convenient logging scale.
10. Front panel equalization switch to choose between tape head and phono.





Scott 4000 Series

4270 60-Watt Transistor Stereo Amplifier — Here is the first truly high quality, all transistor high fidelity integrated stereo amplifier. Though Scott engineers have had vast experience with transistorized audio amplifiers (the Instrument Division produced the model 255 300-watt transistor amplifier 2 years ago) it was decided not to rush into production of a stereo amplifier until the stringent performance standards set by Scott engineers could be obtained at a reasonable price. The 4270 boasts truly outstanding performance and a host of exceptional features.

All the benefits of transistors are here: Long component life, fast warmup, low noise, and lower power requirements. The drawbacks formerly associated with transistor amplifiers are gone: Elaborate protective circuitry prevents damage to output transistors should loudspeaker leads become accidentally shorted. Full power at *all impedances* is made possible by use of "Uni-Coupler" output circuitry. Thermal "Runaway" is prevented by massive heat sinks. Individually controlled inputs allow utilization with any conceivable signal source. Front panel controls include: Patented stereo selector with exclusive "Selecto-Graph" indicator lights. Dual friction clutched tone controls, derived center channel level control and many other features.

The 4312 Transistorized Automatic FM Stereo Tuner — The 4312 demonstrates Scott's unquestioned leadership in audio engineering and design. The solid state circuitry of this astonishing tuner is based on the latest techniques developed in space exploration, combined with Scott's years of tuner design know-how.

The silver-plated, nuvistORIZED front end provides extraordinary sensitivity. The transistorized wide band IF and detector stage produce astonishing selectivity and limiting. Here is a tuner with unbelievably low distortion and inaudible background noise. Scott's famous time-switching multiplex section has long led the field in stereo separation and lowest distortion. Detector bandwidth of 3 mc further assures marvelous stereo performance. Features include: completely automatic stereo operation, interstation noise suppression, front panel stereo tape output, individual level controls each channel, sub-channel noise filter, stereo noise filter. Here is a tuner that will set industry standards for years to come.

The 4310 FM Stereo Broadcast Monitor Tuner: — Already used by the major FM networks for remote and relayed stereo broadcasts, and by many other FM stereo stations, the 4310 offers every conceivable facility for use professionally. Further, it offers, for the serious audiophile, performance and circuitry allowing flawless tape recording of the most distant stations. The 4310 offers such convenience features as automatic stereo operation, interstation noise suppression, individual level controls and VU meters for each channel, plus many others. Performance of this tuner is unequalled by that of any other. Cross modulation and distortion, even on stereo broadcasts, approaches the vanishing point. Capture Ratio and sensitivity are exceptional, approaching theoretical limits of FM reception!

For the Perfectionist

With the 4000 Series, Scott introduces a deluxe series of advanced, highly refined components, designed for the discriminating audiophile and professional user. Available on a limited basis, this series offers the ultimate in performance through advanced, imaginative engineering combined with those time proven features found in all Scott components.

Emphasis in each of these magnificent components is on performance. Scott engineers were given a unique challenge: they were told to create units whose performance would surpass that of any other units available. That they met this challenge is unquestioned. Already, the first of the series (the 4310) has established itself as the ultimate FM Stereo Tuner. Audio Magazine in September, 1963, said "Without question, this tuner is one of the finest tuners extant. It pulled in more stations, loud and clear, than any other tuner we have tested." This then, illustrates the intent and accomplishment of the entire 4000 Series — to outperform all other units.

Drawing from their vast engineering repertoire and utilizing the many exciting new materials developed for space research, Scott engineers have reached the pinnacle in high fidelity component performance. Presented in this series are two transistorized units which, for the first time, offer true high fidelity performance plus all the advantages associated with transistors.

Unquestionably solid state devices point the way to the future for high fidelity components. Scott realized this many years ago, and has utilized such devices for many years. Scott engineers developed the first commercially available high power audio amplifier more than three years ago. The 255 Amplifier produced 300 watts of audio power for industry, and graphically demonstrated Scott's significant lead in solid state technology. From this background come the 4312 transistorized automatic FM stereo Tuner and the 4270 60-watt Transistor Stereo Amplifier.

The selection of any of these remarkable components for your high fidelity music system will prove to be most rewarding. You are assured of possessing the most refined and advanced instruments available. You will obtain unsurpassed performance now and for many years to come. You will own equipment whose design and performance has set, and will continue to set, industry standards for years to come. Undeniably, your ownership of any one of the 4000 Series will be an investment you will be proud of for years to come.



Selecting a Tuner

How to Select an FM Stereo Tuner

FM Stereo broadcasting makes severe demands on a tuner. Specifications that were not important for monophonic reception become all important in FM Stereo tuner design. Before you purchase an FM Stereo tuner you should have an understanding of the factors involved in good tuner design. Following are tuner specifications and explanations of their relative importance. Study these carefully, and you will be in an excellent position to choose the tuner that best suits your requirements.

1. Cross Modulation Rejection: Stated in decibels (db). The *higher* the figure the better. Tuners designed *only* for maximum sensitivity frequently suffer from poor cross modulation rejection. Tuners with poor cross modulation rejection tend to pick up strong local stations not only at the one point on the dial where they should appear, but also at several other points on the dial. When the local station appears at other points on the dial, it may cover up or "blanket" a weaker, distant station that you are trying to receive. In an effort to overcome this poor design some tuners incorporate a Local-Distant switch. Unfortunately this switch reduces sensitivity when in the Local position, and though it may solve the "blanketing" problem, it also will prevent you from receiving the distant station. Cross modulation rejection should be in excess of 70 db.

2. Usable sensitivity: Stated in microvolts (μv). The *lower* the figure the better. Sensitivity is an indication of the tuner's ability to receive weak distant stations. Generally speaking, the greater the sensitivity, the more stations you will receive. However, high sensitivity without excellent cross modulation rejection becomes meaningless and actually detrimental to good Stereo reception. The IHF (Institute of High Fidelity) has established standards for tuner sensitivity, and the only valid way of comparing tuner sensitivity is to look for the IHF, usable sensitivity specification.

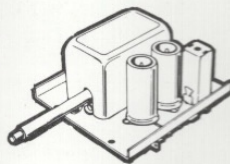
Scott developed wide-band design has, since 1954, enabled Scott tuners to attain sensitivity close to theoretical limits, plus cross modulation rejection so high that "blanketing" never occurs. This is due in part to Scott's exclusive silver and copper plated front ends with their 3 gang tuning condensers and temperature compensated components.

3. Selectivity (alternate channel) stated in decibels (db). The *higher* the figure the better. Selectivity describes the ability of a tuner to completely separate stations on nearby channels. To receive stations located at a great distance the tuner must be able to reject a local station on a nearby channel. Alternate channel selectivity figure should be in excess of 30 db.

4. High Frequency Distortion (subchannel) stated in percentage. The *lower* the figure the better. Relates to distortion found when receiving stereo broadcasts. It is not difficult to obtain high selectivity if no attention is paid to high frequency stereo distortion. The problem is to have high selectivity with minimum distortion.

Since both minimum high frequency distortion and good selectivity are a function of good IF design, Scott engineers developed an extremely wideband IF section. This was made possible because of an exclusive selective copper plating process.

5. Freedom from drift — A tuner must stay on station without wandering (or drifting). Narrow-band tuners use undesirable automatic frequency control (AFC) to prevent drifting. AFC introduces considerable distortion and reduces bass response. AFC also reduces selectivity because its magnet-like attraction towards stronger stations pulls away from nearby weak ones. Scott tuners utilize wideband design and temperature compensated components to eliminate



the need for AFC. "Drift . . . simply does not exist . . .".

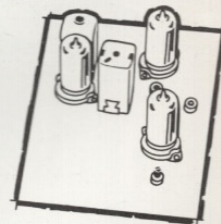
6. Stereo Separation: Stated in decibels (db). The *higher* the figure the better. The amount of stereo separation determines the amount of stereo effect you will get when listening to a stereo broadcast. The importance of wideband design became obvious when the FCC set the standards for stereo FM broadcasting. In their report they stated that ". . . for optimum stereophonic reception, the (tuner's) bandwidth must be considerably greater than that of monophonic (tuners) . . .". Years before, Scott engineers developed the first wideband (2 megacycle) tuner. Now, with bandwidth up to 3 megacycles, Scott continues its technological leadership in wideband tuners.

The Scott Time-Switching method of decoding multiplex broadcasts, now the industry standard, provides maximum separation over the entire audio spectrum. Most FM Stereo tuners are capable of providing passable separation in the 400 to 1000 cps range but Scott tuners lead the industry in good separation right up to the 15,000 cps broadcast limit.

7. Accurate Stereo Broadcast Indicator. Scott's exclusive "Sonic Monitor"* locates stereo broadcasts for you. By switching to "Monitor" position and tuning to the clearest tone, you not only locate the stereo stations, but you are assured of achieving maximum separation with minimum distortion.

The 340B, 380, 4310, 4312 and 310E utilize unique Auto-Sensor circuitry which automatically switches the tuner to stereo when a stereo broadcast is in process. A signal light goes on to indicate the presence of the stereo station.


*American Record Guide — Feb. '62



TECHNICAL SPECIFICATIONS TUNERS	4310	4312	310-E	340-B	380	333-B	350-C	370-B	LT-110	LT-111
SPECIAL FEATURES	Dynaurl Interstation Noise Suppression Diversity Reception Adjustable Stereo Sensitivity	Transistorized Stereo Multiplex Dynaurl Interstation Noise Suppression Adjustable Stereo Sensitivity 3 Megacycle Bandwidth	Dynaurl Interstation Noise Suppression Adjustable Stereo Sensitivity	70 Watt Amplifier and FM Stereo Tuner combined	Wide Range AM Tuner with FM Stereo Tuner and 70 Watt Amplifier	Separate AM & FM Sections for AM, FM, AM/FM simulcast as well as FM Stereo	Latest Version of First and Finest Selling FM Stereo Tuner	Moderately priced tuner utilizing Scott's highly respected Wide-Band Circuitry and Time Switching Multiplex	Pre-wired, pre-aligned silverplated front end Time Switching Multiplex High Sensitivity	Pre-wired, pre-aligned front end Unique Align-a-scope method of aligning multiplex section
Cross Modulation Rejection (db)	85	85	85	80	80	80	80	75	80	75
Usable Sensitivity (uV)	1.9	1.9	1.9	2.2	2.2	2.2	2.2	3.5	2.2	3.5
Signal to Noise ratio (db)	65	65	65	60	60	60	60	50	60	50
Harmonic Distortion (%)	0.5	0.5	0.5	0.8	0.8	0.8	0.8	less than 1	0.8	less than 1
Drift (%)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Frequency Response (cps \pm 1db) ¹	30-15000	30-15000	30-15000	30-15000	30-15000	30-15000	30-15000	30-15000	30-15000	30-15000
Capture Ratio (db)	2.0	2.2	2.2	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Selectivity (db)	55	35	50	35	35	35	35	32	35	32
Stereo Separation (db)	35 +	35 +	35 +	30	30	30	30	30	30	30
Audio Hum (db below 1 volt)	70	75	66	65	65	65	65	55	65	55
Am Suppression (db)	60	60	60	55	55	55	55	50	55	50
Sensitivity for 20 db quieting with matched 72 ohm antenna	.65	.65	.65	1.0	1.0	1.0	1.0	1.5	1.0	1.5
FM Detector band width	2mc	3mc	2mc	2mc	2mc	2mc	2mc	1mc	2mc	1mc
FM IF Stages	4	4	4	3	3	3	3	3	3	3
FM Limiting Stages	3	3	3	2	2	2	2	2	2	2
Silver-plated front end	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Copper	Yes	Copper
FM Cascode RF Stage	Yes	Nuvistor	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Automatic Stereo Operation	Yes	Yes	Yes	Yes	Yes	SM	SM	SM	SM	SM
Tuning indicator	meter	meter	meter	meter	meter	meter	meter	eye	meter	eye
AM Bandwidth Positions	NA	NA	NA	NA	2	2	NA	NA	NA	NA
Subchannel noise filter for multiplex	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No
Tape Recorder Outputs	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Relay activated squelch	Yes	Yes	Yes	No	No	No	No	No	No	No
Noise Filter	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes	No
Dimensions in accessory case	17½ w 6¼ h 16¼ d	17½ w 6¼ h 16¼ d	15½ w 5¼ h 13¼ d	17½ w 6¼ h 16¼ d	17½ w 6¼ h 16¼ d	15½ w 5¼ h 13¼ d	15½ w 5¼ h 13¼ d	15½ w 5¼ h 13¼ d	15½ w 5¼ h 13¼ d	15½ w 5¼ h 13¼ d

¹IHF measurements are made only in the range 30-15000 cps. All Scott tuners actually have far wider frequency range than shown here.

NA — Not Applicable
SM Sonic Monitor



Selecting an Amplifier

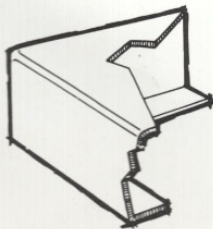
The Meaning of an Amplifier's Power Rating

An amplifier's ability to perform properly depends on how much power it can produce over the entire audible spectrum. The very low frequencies, below 50 cps, require more power than the higher frequencies. Until recently, manufacturers designated output at one frequency, 1000 cps. This method was unsatisfactory because an amplifier with 25 watts output at 1000 cycles might have much lower output in the important low frequency range. To provide a more meaningful guide to an amplifier's performance, the Institute of High Fidelity (IHF) adopted the "power band" method of rating. The "power band" is the frequency range over which the amplifier delivers half power at its rated distortion. It is a meaningful guide to performance throughout the entire audio range.

Scott applies a more rigorous requirement to all its amplifier designs. They must have additional reserve power at the critical low frequencies. This is why you can be sure that the power ratings of Scott amplifiers show their minimum — not maximum — output.

Important Design Features of Scott Amplifiers

- Non-magnetic electrolytic aluminum is used as chassis material on all Scott components rather than low cost steel. Aluminum acts as a shield against induced hum, and is an ideal heat dissipator guaranteeing long life and cool operation of the vital output stages.



- To avoid unpleasant hum and noise, Scott uses specially selected preamplifier tubes.
- All Scott amplifier sections are 100% stable with any type of load or with no load. You never have to worry about harming your tuner-

amplifier if a speaker wire is disconnected.

- The oversized output transformers in all Scott amplifier sections is one reason for the high output power at the low frequencies where power is really needed. It is in the vital low frequency region that Scott stands out as the leader.



- All Scott amplifier sections incorporate a subsonic sharp cutoff filter. This prevents all noise and rumble below 20 cps from entering the amplifier stage and causing the amplifier to waste its power on undesirable noises. By concentrating on the audible range, a Scott amplifier gives usable power far in excess of its conservative rating.

- All components and parts are carefully checked. They are used far below their rated values.

How to Select the Scott Amplifier for Your Needs

The price differential between the various H. H. Scott amplifiers reflects only differences in power and operating features. There is only one quality in any Scott amplifier, and this is the best quality possible at this stage of the art. To choose an amplifier, thoroughly check all features of each model to make sure that the one you select has those provisions and controls you desire. Selecting an amplifier that supplies sufficient power for your listening conditions is also important.

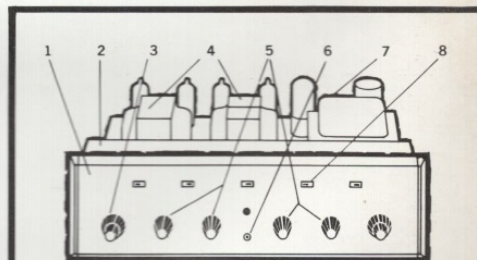
Four factors are involved in selecting the proper power rating: (1) The efficiency of your speaker system. Some systems need more power than others for the same room volume. A speaker's efficiency, however, is absolutely no criterion of its quality. (2) The size of the listening room, and the absence or presence of sound absorbing materials such as rugs and drapes.

Large rooms require more power. (3) How loudly or softly you ordinarily play your music. (4) You need more power if you want to place extension speakers in other rooms.

If all these factors indicate the desirability of higher power, then you should consider an amplifier such as the 80-watt 299D or 48-watt 222D. On the other hand, if factors point toward lower power, the 30-watt 200 will be ample.

Accessory Cases Available in Several Handsome Styles ...

Your dealer stocks slip-on cases for all Scott components. Most attractive are the beautifully crafted hand-rubbed wood cases in your choice of oiled walnut, or mahogany. There is also an economical leatherette-covered metal case.



Special features found in all Scott Amplifiers

1. Complete input facilities for all program sources.
2. Scratch filter.
3. Patented Stereo Selector permits easy, accurate balancing and checking of system.
4. Rugged oversize output transformers assure Scott's power specifications cover full frequency spectrum including low end where power is really needed.
5. Separate bass and treble controls.
6. Stereo headphone output.
7. Derived center channel output.
8. Complete tape monitor facilities.

**TECHNICAL
SPECIFICATIONS
AMPLIFIERS**

	4270 60 Watt Transistorized Stereo Amplifier	299-D 80 Watt Stereo Amplifier	222-D 48 Watt Stereo Amplifier	200-B 30 Watt Stereo Amplifier	340-B and 380 Amplifier Section	LK-72 80 Watt Stereo Amplifier Kit	LK-48 48 Watt Stereo Amplifier Kit	LK-30 30 Watt Stereo Amplifier Kit
SPECIAL FEATURES	First truly high fidelity completely transistorized stereo amplifier with full output at all impedances.	Latest version of the model recommended by leading independent high fidelity testing organizations.	This feature-packed amplifier has sufficient power to drive any fine speaker system.	A moderately priced amplifier incorporating all essential Scott features. Conservatively designed for years of trouble-free service.	70 watt amplifier and automatic FM Stereo (Multiplex) tuner combined on one chassis.	Latest version of the model recommended by leading independent high fidelity testing organizations.	Latest version of this feature-packed amplifier kit has sufficient power to drive any fine speaker system.	A moderately priced kit incorporating all essential Scott features. Conservatively designed for years of trouble-free service.
Power rating (watts) (IHF Standard)	30/30	40/40	24/24	15/15	35/35	40/40	24/24	15/15
Power Band (IHF Standard) ¹ (cps ± 1 db)	20-15000	19-25000 ²	19-25000 ²	25-15000	19-25000 ²	19-25000 ²	19-25000 ²	25-15000
Frequency Response ¹ (cps ± 1 db)	19-15000	20-20000	20-20000	30-20000	20-20000	20-20000	20-20000	30-20000
Harmonic Distortion (%)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Hum Level (db)	-80	-80	-80	-70	-80	-80	-80	-70
Stereo inputs	6	8	7	3	4	7	7	3
Derived center channel output	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power center channel output for extension speaker	No	Yes	Yes	No	Yes	Yes	Yes	No
Scratch filter	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rumble filter	Yes	Yes	No	No	Yes	Yes	No	No
Separate bass & treble	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Tape Monitor	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sensitivity on phono or tape head (mv)	**	3 or 9 ⁴	3 or 9 ⁴	5	3 or 9 ⁴	3 or 9 ⁴	3 or 9 ⁴	5
DC applied to all preamp tubes	NA	Yes	Yes	No	Yes	Yes	Yes	No
Equalization curves	4	4	3	2	3	3	3	2
Microphone equalization	Yes	Yes	No	No	No	No	No	No
Balancing provisions	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Front panel stereo earphone jack	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Speaker "on-off" switch for private earphone listening	Yes	Yes	Yes	No	Yes	Yes	Yes	No
Mono records with stereo pickup	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Phasing switch	No	Yes	Yes	No	Yes	No	No	No
Subsonic cutoff	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Loudness Volume control	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Switchable stereo low level inputs	Yes	Yes	Yes	No	Yes*	Yes	No	No
Dimensions in accessory case	17½ w 6¼ h 13¼ d	15½ w 5¼ h 13¼ d	15½ w 5¼ h 13¼ d	15½ w 5¼ h 13¼ d	17½ w 6¼ h 16¼ d	15½ w 5¼ h 13¼ d	15½ w 5¼ h 13¼ d	15½ w 5¼ h 13¼ d

¹A special subsonic (below 20 cps) sharp-cutoff filter is incorporated in Scott amplifiers to prevent power waste due to subaudible rumble, eccentric records, or acoustic feedback.

*380 only

**Continuously Variable 3-30 mv

²Limits of finest test equipment available.

³Not applicable.

⁴Choice of Inputs

It's Fun To Build Your Own Scott Kits

Scott, a leading manufacturer of superb high fidelity components since 1946, has taken a revolutionary approach to the technique of kit building. Note the full-color instruction book, the individual part charts; the pre-cut, pre-stripped wire, the pre-assembled and pretested front end, and the chassis with mechanical parts

already mounted to save time and trouble.

Amateurs who have never even soldered before report that they have built Scott kits in just a few hours that measure even better than our published specifications. Magazine editors and reviewers tell us our specifications are much too conservative. Other manufacturers are paying us

the highest compliment by trying to emulate some of Scott's original designs and features. There is one thing, however, that cannot be copied. The Scott reputation for quality, integrity and leadership: a reputation hard-won by consistent attention to detail; by continual advance in engineering and imaginative innovation.

If you have friends who would enjoy receiving their own copy of this Scott Guide, or if you would like complete information on Scott Consoles, drop us a note.

SCOTT[®]

H. H. SCOTT INC., 111 Powdermill Rd., Maynard, Mass.
Export: Morhan Exporting Corp., 458 Broadway, N.Y.C. Canada: Atlas Radio Corp., 50 Wingold Ave., Toronto

Furniture pages 1, 8, 24 courtesy M. Brown & Co. Inc., Boston