MODEL A437 FEATURES

METERS
Left and right channel back lighted Power Level Meters indicate the relative power fed to the speakers over the whole power range.

STEREO HEADPHONE JACK
Front panel headphone jack for personal listening with stereo headphones.

TONE CONTROLS AND FILTERS
Full-range tone controls and switchable filters for complete audio compensation.

MICROPHONE INPUT
Front panel mounted microphone jacks permit amplifier to be used as P.A. amplifier and to make live recordings on accessory tape recorder.

TAPE COPY
Front panel switches permit tape duplication when two recorders are connected to amplifier, recording may be monitored when a three head recorder is used.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD
DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

NOTICE

This appliance is manufactured with a serial number, located on the rear panel.
The final purchaser is requested to record the serial and model numbers, as well as other information listed, so that a record of purchase will be on hand should loss of the equipment occur.

Model No. __________________________ Serial No. __________________________

Date of Purchase ______________________ Dealers Name __________________________

Address ______________________________ Telephone No. __________________________

Warranty Registration Date __________________________

H. H. Scott, Inc. 1977

Printed in U.S.A. 029-1173-123
THE STEREO SYSTEM

The model A437 is a high fidelity stereo amplifier designed to be incorporated with other high fidelity components into a complete stereo system. It offers the following facilities:

- Outputs and switching for one or two pair of loudspeakers.
- Inputs for two stereo record players with magnetic pick-ups.
- Stereo inputs for two high impedance microphones.
- Stereo inputs for an AM/FM Tuner. Specifically designed to accept the matching Scott Model T516 or T527, will also accept many other brands.
- Stereo inputs to accept any one of the following:
  - Cassette player
  - Eight track cartridge
  - Open reel tape player
  - Open high level (180 mV) Source.
- Tape recorder inputs and outputs permit connection of any two of the following:
  - Two or Three head recorder/playback unit
  - A noise reduction device
  - Four channel decoder
  - Cassette or cartridge recorder.

AMPLIFIER INSTALLATION

Installation of the SCOTT model A437 is not complicated. However, the following guidelines must be followed for satisfactory performance and to assure full coverage under the terms of the warranty.

- The amplifier and associated equipment may be placed on a table, or shelf, or it may be mounted in furniture, suitably designed for the purpose.
- The equipment must not be exposed to excessive dust, moisture, or direct sources of heat.
- If mounted where ventilation may be restricted, care must be taken to provide a MINIMUM opening of approx. 50 sq. in. (320 sq. cm), for free air movement, in and out of the cabinet to the room.
AMPLIFIER CONNECTIONS

Refer to pictorial CONNeCTION DIAGRAM and DETAILED AMPLIFIER CONNECTIONS.

- **Loudspeakers**
  Connect left and right channel speakers to amplifier terminals “A”.
  Use suitable gauge wire.
  Use care not to “short circuit” speaker cables.
  Phase properly, make connections to proper channel.

- **Phono Turntable/Changer**
  Use cables provided with turntable, or obtain insulated and shielded audio cables terminated with standard pin plug. Make proper channel connection to Phono-1 input jacks.
  Connect separate ground lead to amplifier GND.
  Connect turntable power plug to accessory outlet, or wall receptacle.
  A second turntable may be connected to Phono-2. Use cables and make connections as above.

- **Tuner**
  Use insulated and shielded audio cables terminated with standard pin plug (phono plug), connect to Tuner input jacks, observe proper channel connection. Connect power supply cord to switched accessory outlet. Provide suitable antenna.

- **AUX Equipment**
  Use insulated and shielded audio cables, terminated with standard pin plug (phono plug). Connect to AUX input jacks, make proper channel connection.
  Connect accessory power plug to amplifier accessory outlet, or wall receptacle.

- **Tape Recorder**
  Use cables supplied with recorder or obtain suitable insulated and shielded audio cables.
  Connect recorder power plug to unswitched accessory outlet or wall receptacle.
  A second tape (open reel) recorder may be connected to recorder 2 jacks. Use cable and make connections as above.

- **Amplifier Power Supply**
  Plug the cord set into the amplifier and into the wall outlet.

  REFER TO REAR PANEL FOR SPECIFIED VOLTAGE AND FREQUENCY.
CONNECTION DIAGRAM

ACCESSORY IN/OUT:
Accessory jacks permit connection of noise reduction devices, graphic equalizers, etc.

UNSWITCHED ACCESSORY OUTLET

SWITCHED ACCESSORY OUTLET

LINE FUSE
SEE REAR PANEL FOR PROPER RATING

POWER CORD RECEPTACLE

SPEAKER FUSES — 3.5 AMP QUICK ACTING TYPE

 infusion of recorder 1 to show the use of either DIN std. connecting cable, or separate shielded cables. Use only one or the other.
AMPLIFIER OPERATION

With amplifier installed and connected as outlined, proceed as follows:

• **Power On**
  
  Push POWER switch to turn the power “ON”.

• **Phono**
  
  Rotate SELECTOR switch to PHONO.
  
  Follow specified procedure for operation of record player in use.
  
  Switch MODE switch to MONO for reduced noise and rumble when playing monophonic records.
  
  Adjust VOLUME, BASS, TREBLE and FILTER controls to suit individual taste.

• **Mic**
  
  Rotate SELECTOR switch to MIC for use with microphone as a public address system or for tape recording.
  
  Adjust controls for desired sound level and response.
  
  Microphone input jacks permit connecting two high impedance dynamic microphones, for certain applications a single microphone may be desirable, the MODE switch may be used to supply monophonic (L + R) to both speaker systems or the left or right channels only. Microphones connected to these jacks can also be used to make tape recordings. See tape recording.

• **Tuner**
  
  Rotate SELECTOR switch to TUNER. Follow specified procedure for operation of tuner in use. The amplifier tone controls and filters may be used to compensate for program material.
  
  The MODE switch may be turned to L + R to improve the listening quality of weak stereo signals. However, this will cause speaker and headphone reproduction to be monophonic.

• **AUX**
  
  Rotate SELECTOR switch to AUX.
  
  Follow specified operating procedure for accessory in use.
  
  Adjust VOLUME, BASS and TREBLE controls to suit.
  
  Use BALANCE, FILTERS and MODE as required.
• MODE

• L + R

If a stereophonic cartridge is being used to play a monophonic record use this position. It automatically combines the output from the left and right channels of the cartridge into a single monophonic signal. In the process of combining the two channels, noise and rumble present in the original record, and noise caused by vertical motion in your stereo cartridge is cancelled, resulting in much cleaner reproduction of your mono records.

• Left

Any left input signal will be fed through both amplifier channels and into both loudspeakers. This is useful if you have a monophonic cartridge or tuner connected to the left input of the amplifier. By using this position, you can hear this single source over the full dual channel music system.

• Right

Any right input signal will be fed through both amplifier channels and into both loudspeakers.

• STEREO

This is the normal position for this switch and should be used for listening to stereo program material of all types.

• REV. STEREO

Basically this is identical to the stereo position except that it reverses the two channels. The left channel input will be heard over the right channel speaker and vice versa. This can be used, for example, to move the violins from the left side to the right . . . the drums from the right to the left . . . if you so desire.

• Tape Recording

Rotate SELECTOR switch to the desired program source.

When two recorders are connected, select recorder 1 or 2 with front panel switch.

Follow specified operating procedure for recorder in use.

BALANCE, VOLUME, BASS and TREBLE controls have no effect on recording.

• Tape Playback

Move SOURCE/MONITOR switch to MONITOR.

Switch recorder to PLAY.

Adjust VOLUME, BASS and TREBLE to suit.

Use BALANCE, FILTERS and MODE as required.
Tape Monitor

When the tape recorder in use is equipped with a single record/playback head, the program being recorded may be monitored by leaving the SOURCE/MONITOR switch in SOURCE.

If the tape recorder incorporates a separate playback head (with playback electronics), it is possible to listen to the recording a fraction of a second after it is made, as a quality check. Let us assume that a recording is being made from a record. The SELECTOR will be in the PHONO position. With SOURCE/MONITOR switch in the SOURCE position, the system will be playing the actual record. With the switch moved to MONITOR, the system will now be playing the tape recording of the record just after it has been recorded.

By moving the switch back and forth, it is possible to hear whether the recording is equivalent to the actual record. Adjust VOLUME, BASS and TREBLE to suit.

Use BALANCE, FILTER and MODE as required.

TAPE 1 – TAPE 2

Input and output jacks permit connecting two tape recorders. A front panel switch is used to select the recorder to be used. With two recorders connected to the TAPE IN/OUT JACKS, recording may be made on both machines without affecting the listening quality of the amplifier.

To monitor the recording select TAPE 1 or TAPE 2. Move SOURCE/MONITOR switch to MONITOR.

TAPE -- TAPE COPY

To use the tape copy feature, two tape recorder/playback units are connected to the amplifier “tape in” and “tape out” jacks. As above, first select recorder 1 or 2 on which the recording will be made, by moving RECORDER switch to 1 or 2, the other recorder will automatically be selected as the playback unit.

Move the NORM-COPY switch to COPY and the SOURCE/MONITOR switch to MONITOR. The two recorder/playback units may now be used for recording purposes independent of the amplifier operation. Further, it is not necessary to have the POWER switch ON to use this feature, unless one recorder is connected to the SWITCHED power receptacle on the rear chassis.

If desired, the A437 amplifier may be used simultaneously for tuner or record listening while independently recording tape – tape, simply move the SOURCE/MONITOR switch to SOURCE.

Tape IN/OUT (DIN)

Contact in DIN plug corresponds to DIN 41 523 configuration for record and playback.

Contacts of DIN jack are as follows:

1. TAPE OUT LEFT
2. GROUND
3. TAPE IN LEFT
4. TAPE OUT RIGHT
5. TAPE IN RIGHT

Note: The DIN jack is always connected in parallel with TAPE-1 pin jacks, but with reduced output level (DIN norm).

ACCESSORY IN/OUT JACKS

Jacks are provided on the rear chassis to permit connection of certain accessories between the TONE control output and the POWER AMPLIFIER input, a graphic equalizer is an example. To connect, remove the jumper links between M.A. IN and P.A. OUT connect equalizer input to P.A. OUT and equalizer output to M.A. IN. This will permanently connect the equalizer in the circuit, use all amplifier controls plus the equalizer adjustments.
DETAILED AMPLIFIER CONNECTIONS

Speaker Systems

Speakers may be located in the room to suit individual taste, however it may be helpful to consider that locating speakers on the floor and/or in a corner will usually reinforce bass reproduction. Speakers mounted between floor and ceiling and away from the wall and corners will reduce effective bass. For optimum performance in a stereo system, both speakers should be of the same make and model.

Interconnection over distances up to 50 feet (15m) should be made using two conductor, #18 awg. (1.0 mm), copper wire such as used for lamps and small appliances. For distances greater than 50 feet, it is advisable to use #16 awg. (1.25 mm) wire to prevent excessive power loss.

Remote Speakers

Remote speakers are connected to SPEAKER B terminals. Follow above notes for cable length and speaker placement.

“Surround-With-Sound”, another use for SPEAKER B. Add another dimension to your listening pleasure. Just as the change from mono to stereo adds spaciousness to music, so does the addition of another pair of stereo speakers provide further enhancement of the stereo effect. Try it with any of the Scott Controlled Impedance Speakers — you will be pleasantly surprised.*

Simply attach your LEFT FRONT speaker to the LEFT SPEAKER A terminal and your RIGHT REAR speaker to the LEFT SPEAKER B terminal. Connect your RIGHT FRONT speaker to the RIGHT SPEAKER A terminal and your LEFT REAR speaker to the RIGHT SPEAKER B terminal. Attach ground wires to “G” terminals for corresponding channels. Push both speaker switches for Surround-With-Sound.

Speaker Phasing

For proper stereo reproduction, each pair of speakers must be properly phased. A simple means of phasing speakers is through the use of color coded speaker cables, always connecting the “G” of the amplifier speaker output to the “G”, “0”, or “-” of the speaker terminals. A simple way to check for proper connection is by placing the two speakers face to face (1-2 in./2.5-5.0 cm spacing) while playing a mono source. When properly phased, the sound will be full. Improperly phased, the sound will be weak and mostly high frequencies. Reverse connections to one speaker and compare.

*Speakers are located in the listening room as for 4-channel listening, i.e., two speakers in front and two speaker in back of the listener.
Connecting the Turntable/Changer

Phono jacks, labeled PHONO L&R, are provided on the rear panel. LEFT and RIGHT channel shielded cables are connected from the TURNTABLE to these jacks. The amplifier is designed for use with phono pick-up cartridges with an output voltage between 3.5 and 7.0 mV.* Cartridges with an output voltage in this range are generally considered better in overall quality and are recommended when new, or replacement cartridges are being considered.

As previously noted, a second turntable or changer may be connected to PHONO 2 inputs, since these inputs are rated with the same sensitivity, the same cartridge levels apply.

Connecting Tape Deck, Cartridge Player, or other Accessory

AUX input jacks are provided on the rear panel that permit connecting various accessories. The input sensitivity of these jacks is 160 mV. See TECHNICAL SPECIFICATIONS for additional information. Refer to specification supplied with accessory to determine electrical compatibility.

Amplifier Power Supply Connection

The power cord-set supplied with the amplifier is a high quality, approved cord. Connect ONLY to supply having same VOLTAGE and FREQUENCY (Hz) RATING as shown on the rear panel of the amplifier.

Connecting the Tuner

Input jacks on the rear chassis marked TUNER should be used. This input has a sensitivity of 160 mV and is suitable for the SCOTT tuners, Model T527 and T516 and may also be used with many other brands. Please check the manufacturers specifications for electrical compatibility.

*Cartridge ratings are usually given in units of mV/cm/sec (millivolts per centimeter per second) of recorded velocity (average recorded velocity considered 5 cm/sec).
### Technical Specifications

**Output Power** .................. 42W  
Minimum continuous RMS power output per channel both channels driven into 8 ohms from 20 to 20,000 Hz with no more than 0.3% total harmonic distortion.

**Maximum total harmonic distortion** ........................................... 0.3%
**Maximum intermodulation distortion from 0.5 watt to rated output** ................... 0.15%

**Input Sensitivity**
- **Phono** .................................................. 2.5 mV
- **Mic** .................................................. 6.0 mV
- **Aux** .................................................. 160 mV
- **Tuner** .................................................. 160 mV
- **Tape** .................................................. 160 mV

**Signal to noise ratio, weighted (input shorted)**
- **Mic** .................................................. 80 dB
- **Phono** .................................................. 75 dB
- **Aux** .................................................. 85 dB
- **Tuner** .................................................. 85 dB
- **Tape** .................................................. 85 dB

**Frequency response at 1 watt ±1 dB**
- **Phono** .................................................. 20 to 20,000 Hz
- **Aux** .................................................. 15 to 35,000 Hz

**Phono overload (maximum input signal before clipping)** ................... 100 mV

**Mic overload** .................. 220 mV

**Input impedance**
- **Phono** .................................................. 47,000 ohms
- **Mic** .................................................. 47,000 ohms
- **Aux** .................................................. 60,000 ohms
- **Tuner** .................................................. 60,000 ohms
- **Tape** .................................................. 60,000 ohms

**Separation**
- **Phono** .................................................. 42 dB
- **Aux** .................................................. 46 dB

**Speaker load impedance** .................. 4, 8, or 16 ohms

**Headphone output impedance** .................. 8 to 600 ohms

**Damping factor** .................. 35

**Controls**
- **Bass control range** .................. ±10 dB at 100 Hz
- **Treble control range** .................. ±10 dB at 10,000 Hz
- **High frequency filter** .................. 3 dB at 10,000 Hz
- **Low frequency filter** .................. 3 dB at 100 Hz
- **Loudness compensation** .................. 3 dB at 10,000 Hz
  7 dB at 100 Hz
MODEL A437 AMPLIFIER (Continued)

Power Line requirements

Line voltage and frequency ......................................................... 120 VAC; 60 Hz
Power consumption — full load .................................................... 360 watts
Power consumption — idle ............................................................ 12 watts

Dimensions

Height ......................................................................................... 5-5/8"; 14.2 cm
Width .......................................................................................... 15-3/4"; 40.0 cm
Depth .......................................................................................... 12-7/8"; 32.5 cm
Net weight ..................................................................................... 23 lbs.; 10.2 kg
Shipping weight ............................................................................ 26.5 lbs.; 12 kg

TROUBLESHOOTING GUIDE

The following guide is intended as an aid in correcting problems encountered when setting up the STEREO SYSTEM. Although the suggested remedy may seem quite elementary, it can be sufficient to make corrections without returning the amplifier to your dealer.

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<tr>
<th>PROBLEM</th>
<th>SUGGESTED REMEDY</th>
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</thead>
<tbody>
<tr>
<td>Amplifier inoperative when Power is switched on.</td>
<td>Check POWER FUSE, refer to rear panel for proper replacement. Be sure power cord is properly connected to powered outlet, having the same voltage and frequency (Hz) as specified on amplifier rear panel. Be sure plug is inserted fully into the power input receptacle.</td>
</tr>
<tr>
<td>Meters light up but no output any mode of operation.</td>
<td>Check SPEAKER fuses. Check SPEAKER cables for loose or shorted connection. Check SPEAKER switch for proper speaker selection. Check TAPE switch for source position.</td>
</tr>
<tr>
<td>No output One channel</td>
<td>Refer to above. Exchange SPEAKER cables to determine if problem is in SPEAKER or CABLES. If PHONO only, check PHONO leads and cartridge connections. Interchange PHONO CABLES to input jacks to check whether the same channel remains inoperative.</td>
</tr>
<tr>
<td>Scratchy or noisy Phono sound.</td>
<td>Lift the Tone arm, if the noise stops, the problem probably originates in the cartridge or associated wiring. Repair and/or replace as indicated, connect ground wire between changer mechanism and amplifier GND terminal (when supplied with turntable or changer).</td>
</tr>
<tr>
<td>Hum, Phono only</td>
<td>Be sure Phono cable plugs are fully inserted in amplifier jacks. Move Phono cables around (while listening) to reveal an intermittent or broken shielded lead. Repair or replace as indicated. Connect Ground wire as noted above.</td>
</tr>
<tr>
<td>Hum, other inputs</td>
<td>Check cables and connections, reverse amplifier power plug. Reverse the accessory power plug.</td>
</tr>
</tbody>
</table>
Occasionally it may become necessary to have your amplifier repaired. If difficulties arise, first consult the TROUBLESHOOTING GUIDE section of this manual to determine if the problem is of a minor nature which can be rectified quickly in your own home.

If service is required, there is a broad network of Factory authorized service stations as well as Factory service in the USA and Europe. For information, please write to the Customer Service Department nearest to you. The address is shown on the back of this manual. Include in your letter the model and serial number along with a complete description of the problem. No amplifier should be returned to the factory without RETURN AUTHORIZATION.

Your amplifier should be packaged carefully using the original packing material. If the packing has been discarded or damaged, write to the factory for new material. New packing material (if still available) and shipping instructions will be shipped to you at a nominal charge.

When shipping, insure unit for the full value and use a reputable carrier. Whatever method of shipping used, be sure to obtain a receipt from the carrier.
U.S.A.
H. H. SCOTT INC.
20 Commerce Way
Woburn, Mass. 01801
tel.: 617-933-8800

EUROPE
SYMA INTERNATIONAL S.A.
avenue Louise 419, 1060 Bruxelles (Belgium) tel.: 2-649.95.10
Factory: 15A Rue des Moineaux, 1000 Bruxelles tel.: 2-513.45.30

CANADA
PACO ELECTRONICS LTD.
45 Stinson Street
Montreal, Quebec H4N 2E1
tel.: 514-748-5787
Limited warranty terms

H. H. Scott equipment

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<th>Parts and Labor</th>
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<tr>
<td>Cassette Decks</td>
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<td>Turntables</td>
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<td>Stylii and Cartridges</td>
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</table>

The Consumer Limited Warranty covers your Scott equipment against manufacturing defects in material and workmanship but excludes the following:

1) Damage sustained in shipment, apparent or concealed.
2) Damage to wood covers, cabinets, knobs, panels, dial glass, dust covers or any cosmetic items unless such damage is brought to the attention of your Scott dealer within ten (10) days after date of purchase.
3) Damage caused by accident, negligence, or failure to follow instructions in the Operating Manual.
4) Adjustments arising from normal use such as alignment, dial calibration, etc. after 90 days from date of purchase.
5) Equipment on which the serial number has been altered or defaced.
6) Equipment which has been modified, altered, or serviced by any persons other than authorized Scott Service Stations.
7) Shipping costs both ways via surface carrier to or from Scott authorized service stations or Scott national service headquarters.

warranty service procedure

1. A Warranty Registration Card has been provided which we request that you completely fill out in ink and return to H. H. Scott, Inc. at 20 Commerce Way, Woburn, Massachusetts 01801, within 15 days of the date of purchase, along with your bill of sale and a stamped self-addressed envelope. This will greatly expedite servicing your H. H. Scott products. On receipt of the above documents, your warranty registration will be processed and a Scott Warranty Identification Card will be issued and mailed to you in the stamped self-addressed envelope.

2. If it should become necessary to have repair work performed on your equipment, it must be returned to an authorized Scott Warranty Repair Station or to Scott national service headquarters located at 20 Commerce Way, Woburn, Mass. 01801. All defective equipment must be properly packed in the original carton or factory authorized substitute or returned in person so that the equipment has been safely and correctly handled in transit. If the original carton or proper substitute is not available, please write to our Parts Department with your remittance in the amount of $5.00 to cover postage and handling, and we will forward to you the necessary packaging. H. H. Scott, Inc. or its agents cannot be responsible for improper handling in transit. For a list of authorized Service Stations, please contact H. H. Scott, Inc., 20 Commerce Way, Woburn, Mass. 01801 (Telephone: (617) 933-8800).

3. If returned to a dealer or Warranty Service Station, local terms and conditions on transportation will prevail.

4. If return of a unit to the factory is required it should be accompanied by a note setting out details of your warranty, and the full particulars which appear on your Warranty Identification Card, such as your name and address.

5. Your local H. H. Scott dealer can provide assistance with authorized warranty or advice as to your local or nearby repair stations.

6. H. H. Scott, Inc. reserves the right to examine and dispose of warranty claims in accordance with the above provisions.

REMOVE WARRANTY CARD AND RETURN TO H. H. SCOTT WITH COPY OF BILL OF SALE & STAMPED SELF-ADDRESSED ENVELOPE.
limited warranty terms

note:

H. H. Scott, Inc. reserves the right to make changes in design and improvement in its products without any obligation to install such changes in any of its products previously manufactured.

The foregoing constitutes the sole warranty in lieu of all others expressed or implied or statutory for this equipment including merchantability or fitness for a particular purpose and may not be varied or enlarged by any statement in writing or otherwise by any person whether a dealer, agent, or representative of H. H. Scott, Inc.

(Some states do not allow limitations on how long an implied warranty lasts so the above limitation may not apply to you.)

H. H. Scott, Inc. shall have no liability whatsoever for consequential damages. The sole responsibility of H. H. Scott, Inc. under this warranty shall be limited to the repair of the product.

(Some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.)

This warranty is only given to the owner as first purchaser of the equipment or as first recipient of a gift but is transferable inasmuch as the subsequent owner obtains from original first purchaser or original first recipient of a gift the validated Warranty Identification Card.

HH Scott Inc. • 20 Commerce Way • Woburn, Massachusetts 01801

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Consumer Protection Plan

congratulations... on your purchase of an H. H. Scott professional quality component. H. H. Scott is proud of the quality and workmanship of its electronic and speaker equipment. Every effort has been made to properly design, build, and test this equipment. If properly installed and operated as described in the owner's manual, long trouble-free service will result. Infrequently, a problem may possibly arise which is beyond our control, in which case the following warranty terms apply.