

Color

TELEVISION

by

RCA VICTOR

*T*he information in this booklet will assure you

greater enjoyment of the fine RCA Victor instrument you have selected.

RCA VICTOR

COLOR
UHF-VHF

TELEVISION

You are now the owner of a finely-engineered instrument designed for superb television reception—both Color and black-and-white—either UHF or VHF.

This quality instrument was developed through extensive field testing of color programs on many television channels under varied operating conditions. Powerful and sensitive circuits have been designed to provide full-range Color and better-than-ever black-and-white pictures.

Color television programs are easily "tuned-in". There are only two new main Color controls with which to become familiar, and these may be adjusted to permit faithful color reproduction of the performance.

The tuner (Channel Selector) of this instrument may be modified to receive any combination of a total of 16 UHF and VHF channels—for both Color and black-and-white. Factory-installed inserts are provided for all 12 VHF channels, as well as factory-tuned UHF inserts for the UHF stations telecasting in your area.

As new UHF stations go on the air, additional UHF inserts may be installed in this tuner. If you should move, the inserts you have may be re-tuned or replaced by others to accommodate stations available in your new location. Consult your RCA Service Company branch office for any additional information and service.

"Golden Throat"

Finest tone system
in RCA Victor history



For your *listening* enjoyment, there is the exclusive RCA Victor "Golden Throat" tone system—the coordination and exact balance of amplifier, speaker, and cabinet. Exceptional picture quality, ease of tuning, and the "Golden Throat" system of sound reproduction combine in this RCA Victor Color television receiver to provide outstanding performance and continued enjoyment for many years . . .

RECEIVING

Color

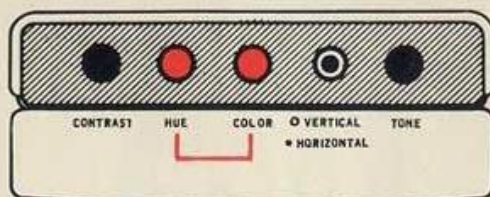
PROGRAMS

Reception of color television programs requires merely tuning for color after a satisfactory black-and-white picture has been obtained.

In addition to conventional black-and-white controls, this receiver has two Color controls which are operative only during color broadcasts.


Once properly "tuned-in", reception of future programs require only that slight adjustment which will provide clearly-detailed pictures suited to your individual taste.

BRIGHTNESS



TUNING



- Turn OFF-VOLUME right  to turn set "on" (allow about 30 seconds warm-up) and advance halfway for medium volume (adjust volume later as desired). Make sure CONTRAST control (beneath cover between main tuning controls) is advanced (to right) at least one-quarter turn.
- Select CHANNEL on which a color program is being broadcast. Should sound bars, or no color appear on **UHF** channels, turn TUNING to most counter-clockwise position (on **VHF** channels, to most clockwise position) until picture starts to disappear. Then turn back *slowly* to the point where sound bars have just disappeared and color is in the picture.
- If still no color, advance COLOR control at least one-quarter turn.
- Adjust HUE (redness, blueness) quality of the picture for most pleasing flesh tones or color of some familiar object.
- Adjust COLOR for desired saturation or strength.

Alternately adjust the color controls to obtain most pleasing color rendition.

If color fringes appear on large objects, when receiving a black-and-white picture, adjust CONVERGENCE (side of cabinet) control for minimum fringes in the center of the picture.

If picture is blurred, adjust FOCUS (side of cabinet) for clearest detail.

Select TONE preference—emphasize bass, normal or treble tones as TONE control is turned to the right.

NOTE: When turning the receiver "off", picture controls may be left undisturbed to facilitate future tuning.

To assure finest COLOR program reception—it is *essential* that black-and-white picture be properly tuned-in, with TUNING control positioned, as explained, to receive color signals.

Complete black-and-white picture tuning procedure is described on the following pages.

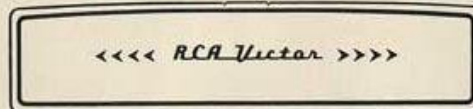
CORRECTLY TUNING-IN *Black/White* PICTURES

The following instructions describe the main tuning procedure of your television receiver. The auxiliary controls, concealed behind the cover located between the main tuning controls, seldom require adjustment following original installation. Refer to auxiliary adjustment procedure below for any slight alteration as may be necessary.

BRIGHTNESS



OFF-VOLUME



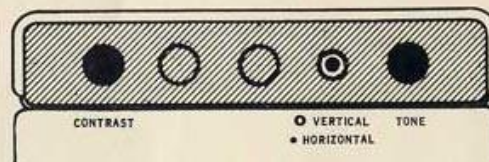
TUNING



CHANNEL

- Turn OFF-VOLUME right to turn set "on" (allow about 30 seconds warm-up) and advance halfway for medium volume (adjust volume later as desired). Make sure CONTRAST control (beneath cover between main tuning controls) is advanced (to right) at least one-quarter turn.
- Turn CHANNEL control until desired UHF station or VHF channel numbers appear in the lighted window.
- Turn BRIGHTNESS fully left then slowly right until picture appears. At this point, if picture is moving up or down, diagonally, sideways, or is split into segments, correct according to instructions on the following page.
- For UHF—Turn TUNING to most counter-clockwise position; for VHF turn to most clockwise position, until picture starts to disappear. Then turn back slowly to the point where sound bars have just disappeared. After picture is on a few minutes, further TUNING adjustments may be required.

the auxiliary controls . . .



If use of BRIGHTNESS control (described above) does not render suitable picture, then adjust CONTRAST in conjunction with BRIGHTNESS.

Select TONE preference—emphasize bass, normal or treble tones as TONE control is turned to the right.

not this . . .

or this . . .

The picture should look like this . . .

NORMAL



TOO DARK



TOO LIGHT

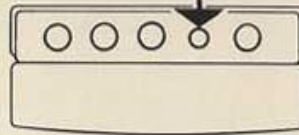
PICTURE MOVEMENT CONTROLS

If the picture is moving up or down on the screen like this . . .



DO THIS . . .

Correct by turning **VERTICAL** control (outside sleeve)



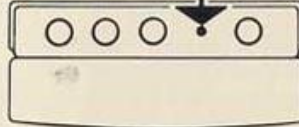
fully right (↻) then slowly left until picture becomes steady.

If the picture is moving sideways, diagonally or contains many black and white lines (as illustrated) . . .



DO THIS . . .

Turn **HORIZONTAL** control slowly left (center shaft)



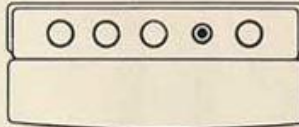
or right until the correct picture appears. Then turn slightly beyond.

If bars are flickering across the picture in time with the speech or music like this . . .



DO THIS . . .

Adjust the **TUNING** control until the bars disappear.



VIRTUALLY NO INTERFERENCE

In some locations one or more disturbances may be encountered.



DIATHERMY

A herringbone pattern on the picture indicates the presence of nearby diathermy apparatus. When severe, this effect is very marked and may even obliterate part of the picture.



AUTOMOBILE IGNITION

Speckles on the picture indicate disturbance from the electrical systems of automobiles or from electrical motor-driven appliances. When severe, vertical picture movement may result.

Every known means of suppressing or eliminating interference has been engineered into your RCA Victor television receiver.

Proper installation and service are important in minimizing these conditions or effects. Reception problems are given special and careful consideration by the RCA Service Company technicians.



RADIO FREQUENCY

Moving ripples indicate disturbance from nearby transmitting or receiving short-wave radio equipment.



WEAK SIGNAL

A snow effect, as illustrated, indicates in most cases that the receiver is located too far from the transmitting station. When this condition exists, the picture may not hold steady on the screen.



REFLECTIONS

Multiple images, sometimes known as echoes or ghosts, indicate that the antenna is receiving a direct signal plus a reflected signal from the same transmitter. Signals can be reflected from objects such as buildings and mountains.

What the "Golden Throat" Tone System Means To You



Your television receiver, the phonograph and the radio are all heard and enjoyed through the "Golden Throat" acoustical system . . . an RCA Victor exclusive and the finest tone system in the history of the company. In the "Golden Throat" three elements are coordinated and *exactly balanced* to bring you superb tone. They are:

- (1) The Electronic Amplifier System
- (2) The Loudspeaker
- (3) The Cabinet

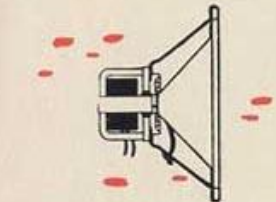
Each element is important to the task of bringing the high tonal fidelity that has made the "Golden Throat" famous. Nearly 30 years of research and the finest materials have gone into the development and manufacture of these three elements of the incomparable "Golden Throat." The rare and beautiful tonal quality of your instrument is the result.

(1) THE ELECTRONIC AMPLIFIER SYSTEM Radio and television sound waves and the audio frequency impulses coming from a record being played are all carried through an electronic system which amplifies them over a million times and converts them to electrical energy. Many circuit combinations and ideas were tried and discarded before an amplifier with the present high degree of efficiency was developed.

(2) THE LOUDSPEAKER As the electrical energy from the amplifier enters the highly sensitive electro-dynamic loudspeaker, it is converted into the audible sound you hear as you listen to your instrument. But the maximum tone quality you enjoy is conditioned by another element . . .

(3) THE CABINET Your cabinet, in addition to being designed as a beautiful piece of furniture, possesses certain definite acoustical qualities that make it an ideal acoustical chamber or "sounding board." The design and construction of your cabinet is an important part of the "Golden Throat." It has been tested and found to be "Just Right" . . . an exact match for your loudspeaker and electronic amplifier.

ALL THREE ELEMENTS IN BALANCE Only after many years of research have RCA Victor engineers achieved the exact coordination of the three elements which you find in the "Golden Throat." The following is an example of what pains RCA Victor's engineers have gone to in their quest for perfection. Tests have shown that different people have different types of hearing. It was proven that a person over 40 years old does not hear high or low tones as well as a young person. RCA Victor has studied and made allowances for these physical differences. The three elements of the "Golden Throat" give a balanced tone which is pleasing to young and old alike. During the experimental stages of the "Golden Throat" development, RCA Victor conducted the famous "Curtain Tests." Hundreds of people were selected to listen to identical music played behind a curtain on various RCA Victor and competitive instruments. Of all models played, one version stood out, not only against all other combinations of electronic amplifier, loudspeaker and cabinet that RCA Victor had designed, but also against all other competitive receivers. In that version echoed the rich golden tones of sound reproduction at its finest. And that version became the pattern for the "Golden Throat." You and others can enjoy it only in instruments engineered by RCA Victor.



INSTALLATION AND CARE

CAUTION

Installation and adjustments of this instrument with the exception of the operation of the controls described should be made *only* by qualified personnel.

Adequate ventilation openings are provided in the bottom, back and, in some cases, the top of the cabinet. Care should be taken not to allow these holes or slots to be covered or ventilation impeded in any way.

CABINET CARE — To preserve the appearance and finish of the cabinet, give it proper care with the occasional application of a high-grade wax polish.

IMPORTANT — This instrument is designed to operate on 115 volts AC, 60-cycle power. If in doubt about your power supply, call your power company before plugging in your receiver. The wrong power source may cause damage. For operation on any other power supply, a converter will be necessary. See your dealer.

LOCATION OF RECEIVER AND VIEWING CONDITIONS . . .

LOCATION of the instrument in the room and viewing conditions should be given careful consideration.

Place the receiver where no bright light will fall directly on the screen, or in the eyes of the viewers. Your RCA Victor television picture is bright and clear, and can be viewed with comfort in a normally-lighted room. Room lighting preference will vary with individuals and conditions. Some

people prefer many lights on, while others prefer viewing with subdued lighting. However, viewing of your picture in complete darkness is not recommended.

Afford easy access for operation and maximum visibility in the seating arrangement of your room.

Permit convenient connections to the proper AC electrical outlet, and for connection of the receiver antenna.

Do not attempt to make any adjustment inside the cabinet.

WARRANTY

Radio Corporation of America, hereinafter referred to as "RCA", warrants to the purchaser of this instrument that it will furnish a replacement part for any part thereof which proves upon inspection by RCA to have been defective within ninety days from the date of original sale by the RCA Victor Dealer, if it was used thereafter solely within the United States of America, in accordance with the terms of this warranty. This warranty shall not apply to any parts of this instrument if it has been installed, altered, repaired or misused in a way that in the opinion of RCA affects the reliability or detracts from the performance of any part of the instrument, or if its serial number or the serial number of any such part has been altered, defaced or removed.


Within ninety days from such purchase any such defect must be brought to the attention of the RCA Victor Dealer from whom this instrument was purchased. If, upon examination by RCA, the part is found to have been defective within the warranty period, the RCA Victor Dealer will furnish the purchaser with a replacement part.

The obligation of RCA hereunder is limited to making a replacement part available to the purchaser, and does not include the furnishing of any labor involved or connected therewith, such as that required to diagnose trouble or to remove or install any such parts; nor does it include responsibility for any transportation expenses in connection therewith.

The foregoing is in lieu of all other warranties, express, implied or statutory, and RCA neither assumes nor authorizes any person to assume for it any other obligation or liability in connection with the sale of this instrument.



RADIO CORPORATION OF AMERICA
RCA Victor Home Instrument Division
CAMDEN 2, NEW JERSEY, U. S. A.

Trademarks  and RCA Victor—Reg. U.S. Pat. Off. by Radio Corporation of America

Printed in U.S.A.

CWM 402

32400-1

Courtesy of Dan Yahro