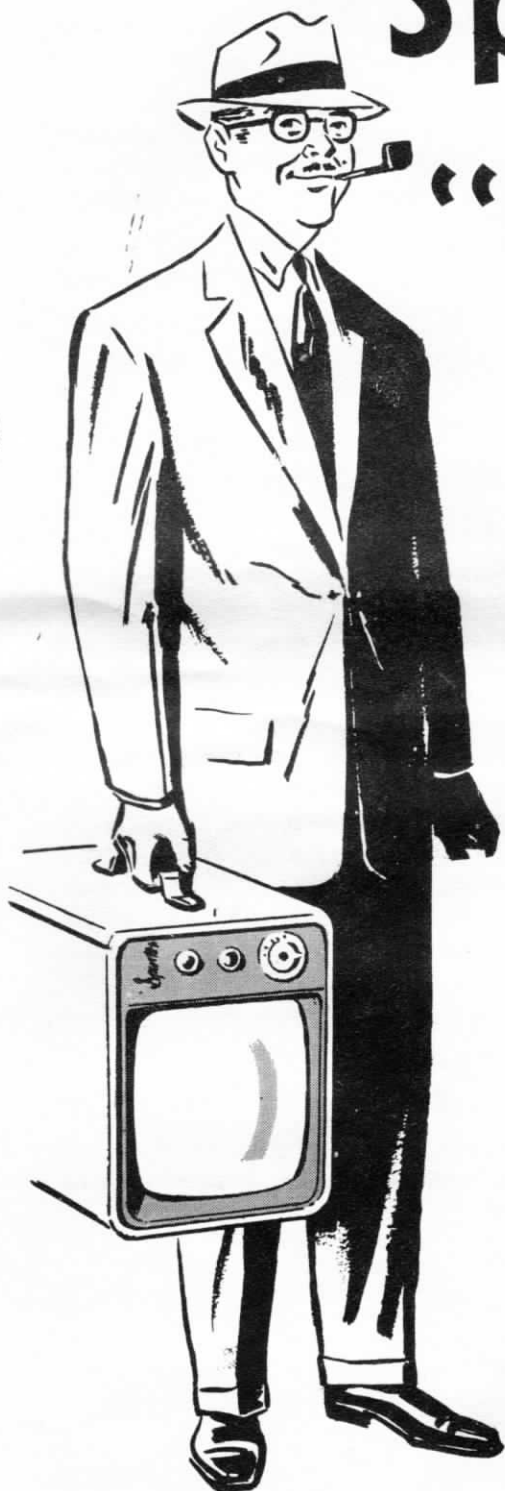


The **Sparton**

“Micmac”

17" Portable Television
Receiver

OPERATING INSTRUCTIONS
MODEL 17G1-K



Sparton of Canada

LONDON, ONT., CANADA

DESCRIPTION

This Sparton Television Receiver, with its modern engineering and precise workmanship, was designed to give you the best performance possible.

It incorporates all of the latest advances in electronic science and produces the best in High Definition pictures with fine detail and excellent Brilliance. It contains all the essential circuits of the finest large screen receivers, including a cascode tuner.

Automatic circuits increase receiver efficiency by compensating for human errors and reducing tuning operations to a minimum.

POWER SUPPLY

This receiver is designed for operation on 110-120 Volt 60 cycle AC Power, as marked on back of cabinet. **DO NOT CONNECT TO ANY OTHER POWER SOURCE.** If in doubt about your power supply call your power company.

INSTALLATION

It is not necessary to operate your Sparton Television Receiver in a room of total darkness, as some light in the room is desired, yet a bright direct light from nearby windows or lamps that may cast a direct light upon the screen will greatly affect the quality of the picture and it will lose its brilliance and sharpness. Therefore the Receiver position should be planned to control room brightness.

ANTENNA — This Receiver is equipped with built-in Antenna for use in **GOOD SIGNAL AREAS.** To use the antenna rods for Television reception, pull out both rods to full length, and with station properly tuned, vary length, angle and rotation of rods to improve reception. Be sure bottom rods are fully extended before tilting, and that rods are vertical before pushing down. If picture is weak and snowy, an external antenna may be connected to the two terminals at the rear of cabinet. Disconnect rod antenna before attaching external antenna.

This receiver is grounded internally. Under no circumstances should a ground wire be attached.

IMPORTANT

VENTILATION — Adequate ventilation openings are provided in the back and bottom of the cabinet. Care should be taken not to allow these openings to be covered or ventilation to be impeded in any way.

CONTROLS AND THEIR FUNCTIONS

This Sparton Television Receiver is equipped and operated with control knobs on the front panel. With the exception of the channel selector and fine tuning control, these controls are identified by the label on the control panel at the knob.

(A) **OFF-ON SWITCH AND VOLUME CONTROL** (See Fig. 1, Page 6)

The control labeled "OFF-VOL-ON" is the small knob of the dual control. It is used to turn the Receiver off and on, and to control the volume of sound. The first clockwise rotation turns the power switch on. Further clockwise rotation increases sound, counter-clockwise decreases sound and the extreme counter-clockwise position turns the power switch and receiver off.

(B) **BRIGHTNESS CONTROL** (See Fig. 1, Page 6)

The Brightness Control, the larger knob of the dual control, may be used to darken or brighten the picture to suit the individual taste. Clockwise rotation increases the brilliance, counter-clockwise rotation darkens the picture.

(C) **TELEVISION CHANNEL SELECTOR** (See Fig. 1, Page 6)

Channel selection is accomplished by the indicator and knob at the bottom of the control panel. These controls are for selecting the channel and for fine tuning. When the indicator knob has been turned until one of the numbers (2 to 13) is uppermost, the Receiver is being tuned to that channel. When the picture appears on the picture tube, the larger knob should be turned slowly clockwise and counter-clockwise until the BEST PICTURE is obtained. When the BEST PICTURE has been tuned in, sound will automatically be obtained in the speaker. In no area are there stations operating on all 12 channels.

(D) **CONTRAST CONTROL** (See Fig. 1, Page 6)

The control labeled "CONTRAST" (small knob) is used to control the light and dark contrast of the picture. Rotate this control clockwise until activity or definite form is visible. The contrast and clarity of the picture are controlled by this control therefore it should be adjusted until the picture is at its best.

(E) **VERTICAL HOLD CONTROL** (See Fig. 1, Page 6)

The Vertical Hold Control (larger knob) indicated by "VERTICAL" on the front panel is used to control the up and down movement of the picture. When the picture or activity is moving up or down after the picture tube has had sufficient time to warm up, adjust the control slowly until the picture is moving down slowly, then turn the control slightly counter-clockwise until the picture snaps up and locks into position.

(F) **HORIZONTAL HOLD CONTROL** (on rear cabinet)

The Horizontal Hold Control identified by "HORZ" on the rear panel is used to stop the picture moving from side to side. This control, once set correctly, should require little attention unless disturbed. The picture will usually pull itself into synchronism in less than a minute after the set is turned on, and will stay in synchronism for the duration of the program.

This control may be misadjusted either clockwise or counter-clockwise. This adjustment is critical and only slight movement of the knob is necessary.

If the horizontal control is misadjusted from its correct position the picture may remain synchronized for a short time only, then some disturbance throws it out. The picture will then be sliced diagonally into segments running upwards from left to right or vice-versa. To correct, turn the horizontal control slowly until the picture snaps into synchronism then turn VERY SLIGHTLY beyond.

TELEVISION OPERATION AND TUNING SEQUENCE

STEP BY STEP

1. Turn Control labeled "Off-Vol-On" clockwise and allow approximately 45 seconds for tubes to warm up. Advance Control until sound or noise is heard in speaker.
2. Turn the Brightness Control clockwise until sufficient light appears in the picture tube.
3. Turn Contrast Control full clockwise.
4. Turn the Channel Selector until the indicator points to the desired channel number. Adjust Fine Tuning control (larger knob) until a picture is obtained.
5. Readjust sound volume if necessary.
6. Adjust the Control labeled Vertical if necessary.
7. Turn Contrast and Brightness Controls counter-clockwise until desired contrast of the picture is obtained.
8. Re-adjust Fine Tuning Control until BEST PICTURE is obtained.

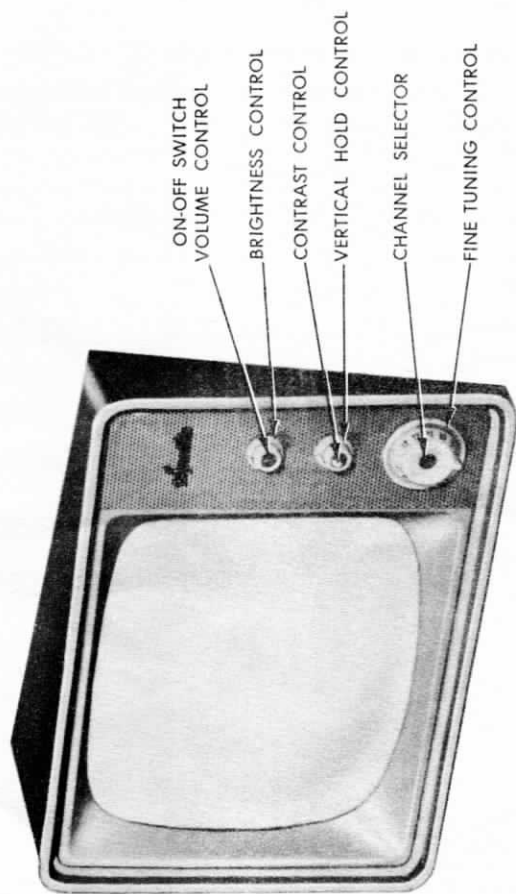


FIGURE 1

INTERFERENCE

To eliminate interference, every known means of suppressing interference has been built into your Sparton Television Receiver.

When interference is picked up by your radio receiver it is only audible in the speaker, but in television the problem of reflection and interference together in some locations may disturb television reception. This means that static and man-made interference will affect both the picture and the sound.

The sources of man-made interference in your location may be numerous and all such problems must be given consideration at the time of the antenna installation.

Interference may be caused by arcing electrical contacts, street cars, automobile ignition systems, elevators, carpet sweepers, electric razors, and neon signs. This type of interference usually causes spots in the picture or up and down movement.

Medical short-wave diathermy may cause speckled or herring-bone bands across the picture.

Aircraft in the vicinity may cause fluctuations in the picture brightness and sound volume.

Mountains, tall buildings or steel towers may cause reflections which will produce multiple images on the television screen.

In adverse locations these are some of the problems that will have to be considered.

In most cases local interference can be eliminated by using filters at the source and a proper antenna installation.

PICTURE CONTROL ADJUSTMENTS

The following instructions and illustrations will explain and show most of the picture effects likely to occur during television reception. Where possible advice on corrections is given.

NORMAL PICTURE

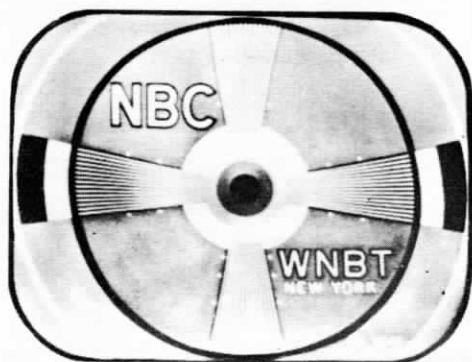


Fig. 2—Normal Picture

A picture, or test pattern is usually telecast by the station before the regular program begins. Fig. 2 is a good illustration of a picture correctly adjusted. The picture is clear and steady and five distinct shades (Black, Dark Gray, Medium Gray, Light Gray and White) are discernible. There are no extra lines or central circles visible within or on the border of the picture.

WEAK SIGNAL

When the picture is faded or speckled, having a "snow" effect and not holding steady on the screen, this indicates your installation is on the outer limits of the area being served by the television station. This is due to the lack of signal strength in your locality.

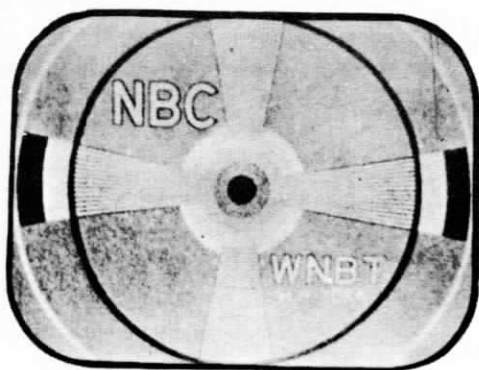


Fig. 3—Weak Signal

CONTRAST OR BRIGHTNESS CONTROLS MISADJUSTED



Fig. 4—Too Much Contrast

When the picture is dark as shown in Fig. 4 this indicates these controls are not properly adjusted. There is too much contrast and the controls should be readjusted to give the effect as shown in Fig. 2 which is a normal picture.

INTERFERENCE FROM ANOTHER SIGNAL

The presence of short-wave radio equipment operating in your locality, such as that used by commercial, amateur and police, or neighboring F.M. and television stations, may cause an R.F. interference in the picture. This will appear in the form of moving ripples as shown in Fig. 5.

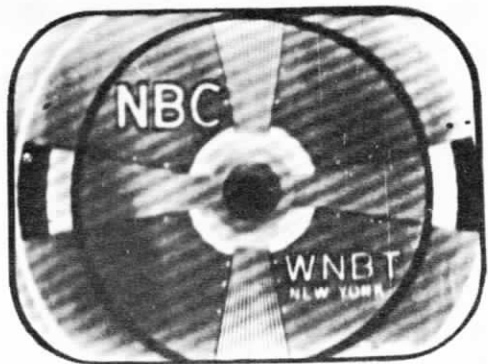


Fig. 5—Interference

SOUND IN PICTURE



Fig. 6—Sound Bars

When bars appear and flicker across the picture in step with the speech or music, as shown in Fig. 6, the picture is not properly tuned.

Readjust the "Fine Tuning" control so that the sound bars disappear. When **BEST PICTURE** has been tuned in, optimum sound will automatically be obtained in the speaker.

DIATHERMY

Diathermy, such as used by the Medical Profession will produce what is known as a herring-bone effect pattern across the picture. This interference when severe may even obliterate part of the picture, see Fig. 7.

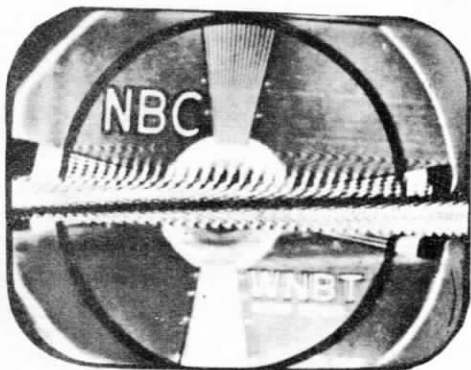


Fig. 7—Diathermy interference

REFLECTIONS



Fig. 8—Reflections

When multiple images appear in the picture as illustrated in Fig. 8 this indicates that signals are arriving at the receiver by more than one direct path from the station. These reflections are known as echoes or ghosts. Signals that have been reflected from mountains, steel towers or tall buildings will produce this effect on the television screen. This trouble can sometimes be corrected by adjusting the antenna.

AUTO IGNITION INTERFERENCE

As ignition systems on automobiles radiate an interference similar to that of signals being broadcast by regular television stations, this interference can be picked up and produced on the picture screen. Interference caused by ignition systems and motor driven appliances will appear on the picture as speckles. Cases where this type of interference is severe, may even cause vertical picture movement. See Fig. 9.



Fig. 9—Auto Ignition Interference

NOTE: The photographs shown in figures 2, 3, 4, 5, 6, 7, 8 and 9 are reproduced with special permission of: R.C.A. SERVICE COMPANY.

NOTICE TO PURCHASER

This new Sparton Television Receiver is a precisely built instrument, engineered to assure the owner a perfectly reliable source of entertainment.

The owner should not attempt to adjust this receiver, other than by the controls as described and illustrated in this booklet. Failure to observe this warning may require a service company with instruments to correct your mistakes.

Although this receiver contains units which generate high voltages, it is fully protected against fire and shock hazards and is listed under the re-examination service of the C.S.A.

WARRANTY

Sparton of Canada Limited, warrants its television receivers to be free from defects in material and workmanship.

Should such defect become apparent under normal domestic use and service within ninety days from date of purchase, the dealer will effect the necessary repairs or replacement to this equipment.

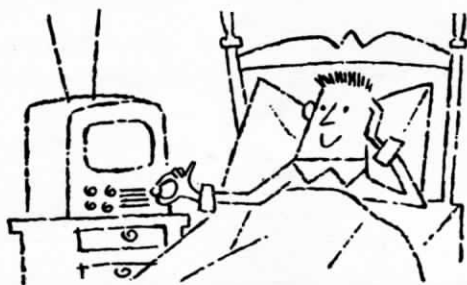
The obligation of Sparton of Canada Limited, under this warranty is limited to repairing of parts which are defective in material or workmanship, or supplying new parts, and Sparton of Canada Limited, neither assumes nor authorizes any other person to assume for it any other liability in connection with the sale of this equipment.

Transportation charges must be prepaid covering the return of Sparton television sets or parts thereof for adjustment under this warranty. Sparton of Canada Limited, will prepay transportation charges on the shipment back to the dealer.

The picture tube installed in this television set is warranted to be free from defects in material and workmanship for a period of one year from the date of purchase.

NOTE

WARRANTY REGISTRATION CARD MUST BE COMPLETED AND MAILED TO SPARTON OF CANADA LIMITED.



FRONT CONTROLS

make tuning comfortable



FRONT SOUND

gives better listening

