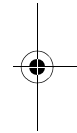
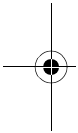


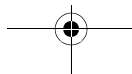


owner's manual

# 5-Inch AC/DC Black and White Portable TV



**RCA**



## FEATURES

Your RCA 5-Inch Black and White Television has many convenient features for easy TV viewing. You can also use your TV to monitor an audio/video source that has audio/video outputs, such as a VCR or camcorder. Your TV includes these features:

**Earphone Jack** — lets you connect stereo earphones or headphones so you can listen without disturbing others.

**External Audio and Video Input Jacks** — let you use the TV to receive external audio and video signals.

**Three Power Sources** — let you operate the TV using internal batteries (not supplied), AC power, or vehicle battery power.

**External Antenna Jack** — lets you connect a standard TV antenna for improved reception.

**TV/AV Switch** — lets you use an external audio-visual source, such as a camcorder, VCR, or laser disc player.



**Brightness and Contrast Controls** — let you adjust a picture that is too dark or too bright, or correct picture contrast that is too weak or strong.

**Vertical Hold Control** — to adjust the picture when it rolls up and down.

**VHF LO/HI/UHF Band Selector** — lets you select VHF low, VHF high, or UHF TV channels.

**Telescoping Antenna** — you can adjust its length, direction, and angle.

**WARNING:** To reduce the risk of fire or shock hazard, do not expose this product to rain or moisture.

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK. DO NOT OPEN.	
<b>CAUTION:</b> TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.		



This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.



This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

## PREPARATION

### POWER SOURCES

You can power the TV from:

- Internal battery power (using ten C batteries, not included)
- Standard AC power (using the supplied AC adapter)
- Vehicle battery power (using the supplied DC power cord)

### Using Internal Battery Power

Your TV requires ten C batteries (not supplied) for power. For the best performance and longest life, we recommend alkaline batteries, available at your local RadioShack store.

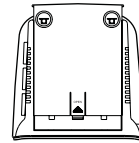
#### Cautions:

- Use only fresh batteries of the required size and recommended type.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.

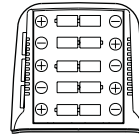
**Note:** If you use rechargeable nickel-cadmium batteries, you need a separate battery charger, available at your local RadioShack store.

Follow these steps to install batteries.

1. Carefully turn the TV upside-down and gently press the arrow on the battery compartment cover, then push the cover in the direction of the arrow.



2. Install ten C batteries in the battery compartment as indicated by the polarity symbols (+ and -) marked inside.



**Caution:** Installing the batteries with incorrect polarity can damage your TV.

3. Replace the cover and insure the tab on the cover locks into the slot on the case.

#### Notes:

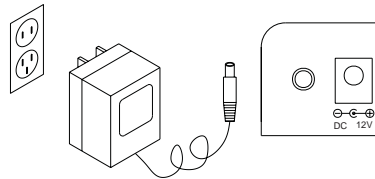
- When the TV picture shrinks, replace (or recharge) the batteries.
- Battery life can vary greatly, depending on how you use your TV.

**Warning:** Dispose of old batteries promptly and properly. Do not burn or bury them.

**Caution:** If you do not plan to use your TV for a month or more, or if you plan to use only AC or DC power, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.

## Using AC Power

To use AC power, connect the supplied AC adapter's barrel plug to **DC 12V** on the back of TV. Then plug the adapter's other end into a standard AC outlet. When you connect the AC adapter, the batteries automatically disconnect.



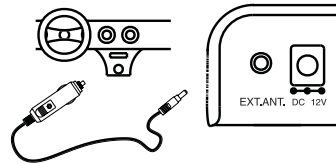
**Caution:** You must use a Class 2 power source that supplies 12 volts DC and delivers at least 850 mA. Its center tip must be set to positive and its plug must fit the TV's **DC 12V** jack. The supplied adapter meets these specifications. Using an adapter that does not meet these specifications could damage the TV or the adapter.

**Note:** Always unplug the AC adapter from the AC outlet before you unplug it from the TV.

## Using Vehicle Battery Power

Follow these steps to power the TV from your vehicle's cigarette-lighter socket using the supplied DC power cord.

1. Make sure the supplied DC power cord's knurled ring is screwed firmly onto its plug.



2. Plug the small end of the supplied DC power cord into the **DC 12V** jack on the back of the TV.

**Caution:** You must use a power source that supplies 12 volts DC and delivers at least 850 mA. Its center plug must be set to positive and must fit the TV's **DC 12V** jack. The supplied power cord meets these specifications. Using a power cord that does not meet these specifications could damage the TV or the power cord.



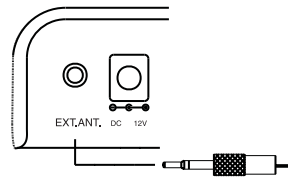
- Unplug your vehicle's cigarette lighter, and plug the large end of the DC power cord into the cigarette-lighter socket. When you connect the DC power cord, the internal batteries automatically disconnect.

**Notes:**

- Always unplug the DC power cord from the cigarette-lighter socket before you unplug it from the TV.
- If the TV stops working, check the fuse in the DC power cord (see "Changing the Fuse" on Page 10).

## Outdoor Antenna

For improved reception, you can connect a standard outdoor VHF/UHF antenna to the **EXT. ANT.** jack on the back of the TV.



If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

**Notes:**

- Your local RadioShack store has a wide selection of antennas and adapters to choose from.

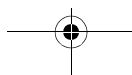
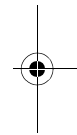
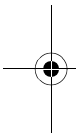
## CONNECTING ANTENNAS

### Telescoping Antenna

You can receive VHF and UHF broadcast signals by using the built-in telescoping antenna, which provides good reception for the TV.

Extend the antenna vertically to its full length for channels 2 through 6 (VHF-LOW) and 14 through 69 (UHF).

Extend the antenna to a shorter length for the best reception of channels 7 through 13 (VHF-HIGH).



- For better reception in your vehicle, you can connect a mobile TV antenna to the television's **EXT. ANT.** jack. (Mobile TV antennas are available at your local RadioShack store.)

## CONNECTING AN AUDIO/VIDEO SOURCE


You can use your TV to monitor an audio/video source (such as a VCR, camcorder, or laser disc player). Connect the audio/video source's output jack(s) to the **AUDIO INPUT** and **VIDEO INPUT** jack(s) on the back of the TV.

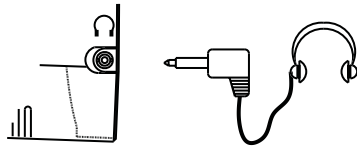
## Listening Safely

To protect your hearing, follow these guidelines when you use earphones.

- Set the volume to the lowest setting before you begin listening. After you begin listening, adjust the volume to a comfortable level.
- Do not listen at extremely high volume levels. Extended high-volume listening can lead to permanent hearing loss.
- Once you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.

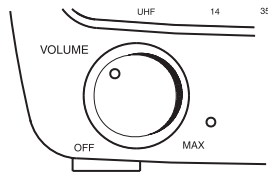
## CONNECTING EARPHONES OR HEADPHONES

For private listening, plug a pair of stereo earphones or headphones with a 1/8-inch mini-plug (not supplied) into the  jack on the side of the TV.

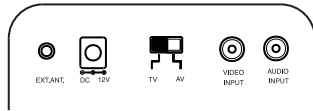


# OPERATION

1. Rotate **VOLUME OFF/MAX** clockwise until it clicks to turn on the TV.



2. Set **TV/AV** to **TV** to receive a TV signal, or to **AV** to receive signals from an audio/video source connected to the TV's **AUDIO INPUT** or **VIDEO INPUT** jack.



3. Set **VHF LO/VHF HI/UHF** to the desired band.

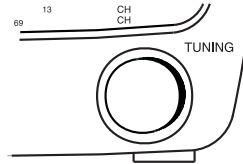


**VHF LO** — to select the VHF low channels (2 through 6)

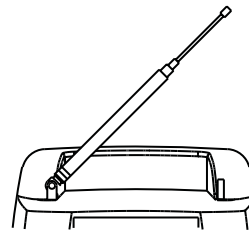
**VHF HI** — to select the VHF high channels (7 through 13)

**UHF** — to select the UHF channels (14 through 69)

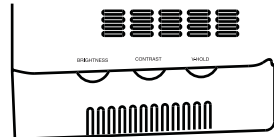
4. Turn **TUNING** to the desired station.



5. Adjust the built-in telescoping antenna for the best picture and sound.



6. Turn **BRIGHTNESS**, **CONTRAST**, and **V-HOLD** on the side of the TV.



**BRIGHTNESS** — adjust when the picture is too dark or too bright.

**CONTRAST** — adjust when picture contrast is too weak or too strong.

**V-HOLD** — adjust when the picture rolls up or down.

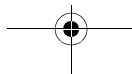
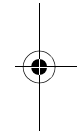
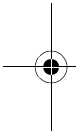


- 
7. Rotate **VOLUME OFF/MAX** to adjust the volume to a comfortable level.
  8. To turn off the TV, rotate **VOLUME OFF/MAX** counterclockwise until it clicks.

## TV RECEPTION TIPS

If the image is blurry, unstable or has “snow,” the signal reception might be weak. This can be caused by your location or the telescoping antenna’s position and length. Buildings with steel construction can also cause reception problems. Try changing the antenna’s position and length. If this does not help, use an outdoor antenna.

If the image does not fill the screen during battery power operation, the batteries are weak. Replace or recharge the batteries.



## CARE AND MAINTENANCE

---

Your RCA 5-inch Black and White Television is an example of superior design and craftsmanship. The following suggestions will help you care for your TV so you can enjoy it for years.



Keep the TV dry. If it gets wet, wipe it dry immediately. Liquids might contain minerals that can corrode the electronic circuits.



Use and store the TV only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage batteries, and distort or melt plastic parts.



Keep the TV away from dust and dirt, which can cause premature wear of parts.



Handle the TV gently and carefully. Dropping it can damage circuit boards and cases and can cause the TV to work improperly.



Use only fresh batteries of the required size and recommended type. Batteries can leak chemicals that damage your TV's electronic parts.



Wipe the TV with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the TV.

Modifying or tampering with the TV's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it.

This TV has been manufactured to the specifications of RadioShack and is covered by a limited warranty from RadioShack. If your TV is not operating as it should, take it to your local RadioShack store or call 1-800-THE-SHACK for assistance.



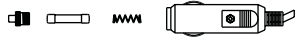
---

---

## CHANGING THE FUSE

If the TV does not work while using vehicle battery power:

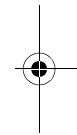
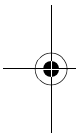
1. Make sure the TV is turned off, then unscrew the knurled ring on the DC power cord and remove the spring to check the fuse.



2. If the fuse is bad, replace it with a 2-amp fuse (available at your local RadioShack store). Do not use a fuse with a different rating.
3. Replace the spring and the knurled ring. Tighten the ring securely.

- Increase the distance between this product and the other radio or TV.
- Use outlets on different electrical circuits for this product and the other radio or TV.

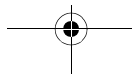
Consult your local RadioShack store if the problem still exists.



## THE FCC WANTS YOU TO KNOW

This TV complies with the limits for a Class B digital device as specified in Part 15 of *FCC Rules*. These limits provide reasonable protection against radio and TV interference in a residential area. However, your TV might cause TV or radio interference even when it is operating properly. To eliminate interference, you can try one or more of the following corrective measures:

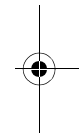
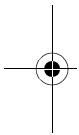
- Reorient or relocate the receiving antenna.



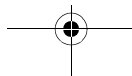


# SPECIFICATIONS

System .....	NTSC-M
Horizontal Resolution .....	260 Lines
Receiving Channels .....	Broadcast VHF: 2–13 Broadcast UHF: 14–69
Intermediate Frequency .....	Picture IF Carrier Frequency: 45.75 MHz Sound IF Carrier Frequency: 41.25 MHz
Maximum Sensitivity .....	VHF: 45 dB $\mu$ V (Maximum) UHF/CATV: 48 dB $\mu$ V (Maximum)
Antenna .....	VHF/UHF 75-Ohm Unbalanced
Power Source .....	AC 120V, 60 Hz DC 12V, 800 mA 10 C Batteries
Power Consumption .....	15 W (Maximum)
Output Power .....	1W
Load Impedance .....	8 Ohms
Frequency Response .....	80 Hz–7 kHz (3 dB Bandwidth)
Total Harmonic Distortion .....	2%
Input Level .....	Video: 1 V <sub>p-p</sub> (75-Ohm Terminated) Audio: 400 mV RMS
Dimensions (HWD) .....	16 <sup>7</sup> / <sub>8</sub> × 6 <sup>1</sup> / <sub>8</sub> × 8 <sup>1</sup> / <sub>16</sub> Inches (175 × 155 × 205 mm)
Weight (without Batteries) .....	3 lb 7 oz (1.6 kg)



Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.





### Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

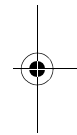
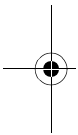
This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RadioShack Customer Relations, 200 Taylor Street, 6th Floor, Fort Worth, TX 76102

*We Service What We Sell*

04/99



**RadioShack**  
A Division of Tandy Corporation  
Fort Worth, Texas 76102

10A99

16-3001  
Printed in China

