

owner's manual

# MINI STEREO AMPLIFIER



# RCA

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# FEATURES

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



## CAUTION

RISK OF ELECTRIC SHOCK.  
DO NOT OPEN.



**CAUTION:** 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.

Your RCA SA-155 Stereo Mini Amplifier is compact, yet it offers many of the same features as a larger amplifier. The amplifier includes three sets of input jacks that let you connect up to three separate sound sources, such as a CD player or tape deck, a turntable, and a tuner. The amplifier also has a front panel, 1/8-inch input jack that lets you quickly connect a portable CD or tape player.

**Note:** The SA-155 is designed to be used with the RCA TM-155 Mini Tuner.

Your amplifier also includes the following features:

**Mono Button** — lets you set the amplifier for monaural sound when you play a monaural sound source.

**1/8-Inch Headphone Jack** — lets you connect low-impedance stereo headphones for private listening.

**Tape-Out Jack** — lets you record to a tape deck from a connected input source.

**CER/MAG Switch** — lets you select the setting that matches your turntable's cartridge for the best results.

**Tone and Balance Controls** — let you control the sound's tone and balance.

# MAKING CONNECTIONS

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## CONNECTING SPEAKERS

For best results, use a matched pair of 8-ohm speakers.

**Caution:** Before you make speaker connections, be sure the AC power cord is not plugged in.

For speaker connections, use a speaker cable with a phono plug on one end and the appropriate connector on the other end. This connection depends on the type of speakers you have. Your local RadioShack store sells a variety of speaker cables and connectors for most types of speakers.

### With Phono Jacks

If the speakers have phono jacks, insert one speaker cable's plug into the right speaker's phono jack. Then insert the cable's other plug into the amplifier's **SPEAKERS R** phono jack.

Repeat this process for the left speaker.

### Without Phono Jacks

If your speakers do not have phono jacks, use regular two-conductor speaker wire (available at your local RadioShack store) with a phono plug on one end. Follow these steps to connect this type of speaker.

1. Connect the wire's two separate conductors to the right speaker's positive (+) and negative (-) terminals.
2. Connect the wire's phono plug to the amplifier's **SPEAKERS R** terminal.

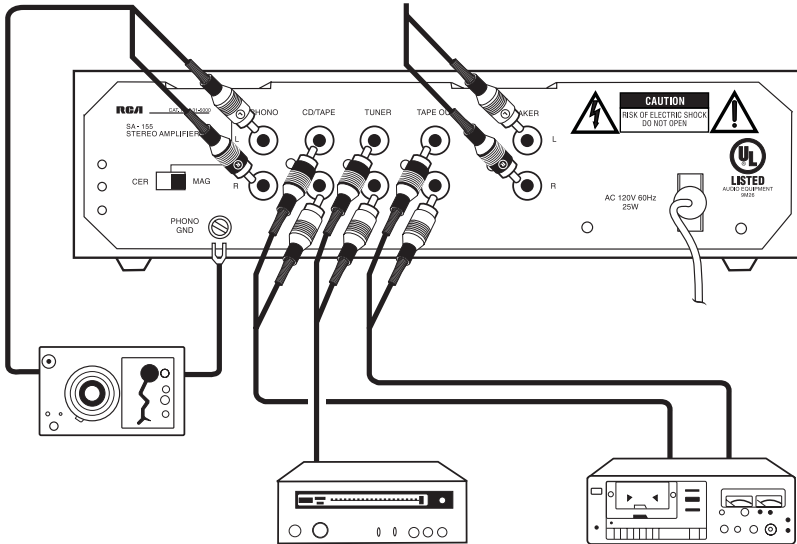
Repeat Steps 1 and 2 to connect the left speaker to the amplifier's **SPEAKERS L** terminal.

## CONNECTING AUDIO SOURCES

Use standard, shielded audio cables for connecting audio sources such as a tuner/amplifier, tape deck, or CD player.

### Connecting a Tuner

Connect the tuner's left and right output jacks to the amplifier's **L** and **R TUNER** input jacks.



## Connecting a Turntable

Connect the turntable's left and right output jacks to the amplifier's **L** and **R PHONO** input jacks. If the turntable has a separate ground wire (usually black or green), connect it to the amplifier's **PHONO GND** screw.

If the turntable has a magnetic cartridge, set **CER/MAG** to **MAG**. If it has a crystal or ceramic cartridge, set **CER/MAG** to **CER**. (See the turntable owner's manual to verify the type of cartridge).

## Connecting a Tape Deck or CD Player

Connect a tape deck's or CD player's left and right output jacks to the **L** and **R CD/TAPE** input jacks on the amplifier's back panel.

If you want to connect another sound source (such as a turntable) to the amplifier and record to the tape deck, connect the **L** and **R TAPE OUT** jacks to the tape deck's **AUX IN**, **LINE IN**, or **TAPE IN** jacks.

You can also connect a portable CD player or tape player to the  $\frac{1}{8}$ -inch **CD/TAPE** input jack on the amplifier's front panel.

**Note:** Using this jack disables the **L** and **R CD/TAPE** jacks.

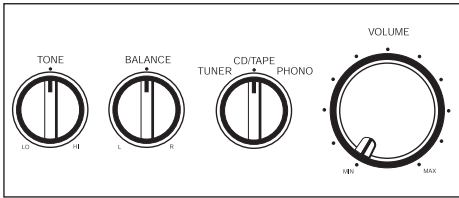
## CONNECTING TO POWER

**Caution:** Before you plug the amplifier's AC cord into a standard AC outlet, be sure the power is off (**POWER** is in the out position).

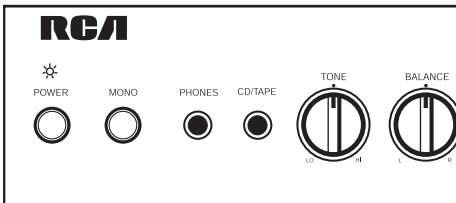
After you make all connections, plug the amplifier's AC cord into a standard AC outlet.

# OPERATION

1. Turn **VOLUME** to **MIN**.



2. Press **POWER**. The red indicator lights.



3. Set **TUNER CD/TAPE PHONO** to the source you want to listen to or record from.
4. If the sound source is monaural, press in **MONO**. If the sound source is stereo, leave the button in the out position.

**Note:** The mono button setting also affects tape recording.

5. For private listening, connect a headphone's 1/8-inch mini plug into the amplifier's **PHONES** jack.

**Caution:** To protect your hearing, follow these guidelines when you use headphones:

- 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.

**Note:** The amplifier mutes the speakers when you connect headphones. If you want to listen through the speakers again, unplug the headphones.

6. Start the sound source.
7. Adjust **VOLUME**, **TONE**, and **BALANCE** as desired.
8. When you finish using the amplifier, press **POWER**. The indicator turns off.

# TROUBLESHOOTING

If you have a problem with the amplifier, first be sure all connections are correct and secure. If the problem continues, check the following troubleshooting information for a solution.

<b>Problem</b>	<b>Solution</b>
No sound from the speakers	Headphones are connected to the amplifier. Unplug the headphones.
	The source selector is set to the wrong audio source. Set the selector to the correct source.
	<b>VOLUME</b> is set too low. Turn <b>VOLUME</b> clockwise.
	If you connect a CD or tape player to the back panel and another to the front panel, the back panel jacks are disabled. Disconnect the player from the front panel jacks.
No stereo sound	<b>MONO</b> is pressed in. Press <b>MONO</b> to the out position.
	<b>BALANCE</b> is set all the way to one side. Adjust the control.
	The speaker connections are incorrect. Turn off the amplifier and correct the connections.
Distorted or weak sound	<b>VOLUME</b> is set too high or too low.
	The speaker connections are incorrect. Turn off the amplifier and correct the connections.
	The <b>MAG/CER</b> setting is incorrect. Set it to the correct position.
	<b>MONO</b> is pressed in while you listen to a stereo source. Press <b>MONO</b> to the out position.
Cannot record	The connections between the tape deck and the amplifier's <b>L</b> and <b>R TAPE OUT</b> jacks are incorrect or loose. Turn off the amplifier and correct the connections.
	The source selector is set to the wrong audio source. Set the selector to the source you want to record.
	If you connect a CD or tape player to the back panel and another to the front panel, the back panel jacks are disabled. Disconnect the player from the front panel jacks.

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

# CARE

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To enjoy your RCA SA-155 Stereo Mini Amplifier for a long time:

- Keep the amplifier dry. If it gets wet, wipe it dry immediately.
- Use and store the amplifier only in normal temperature environments.
- Handle the amplifier gently and carefully. Do not drop it.
- Keep the amplifier away from dust and dirt.
- Wipe the amplifier with a damp cloth occasionally to keep it looking new.

Modifying or tampering with the amplifier's internal components can cause a malfunction and invalidate its warranty.



# SPECIFICATIONS

Power Requirements.....	120 Volts AC, 60 Hz, 25 Watts
Output Power (1% Distortion, 1 KHz, Both Channels Driven) .....	1.8 Watts Per Channel (RMS)
Frequency Response .....	20–25,000 Hz
Input Sensitivity:	
Phono .....	2.5 mV (Magnetic); 200 mV (Ceramic)
Tuner .....	160 mV
CD/Tape .....	160 mV
Tape Output .....	150 mV
Speaker Impedance .....	8 to 16 Ohms
Tone Control Response .....	–18.0 dB
Crosstalk at CD/Tape Input (@ 2 WattsPower) .....	50 dB @ 1 kHz
Dimensions (H × W × D) .....	2½ × 9¼ × 6⅞ Inches (6.4 × 23.6 × 17.5 cm)

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

## Limited Two-Year Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for two (2) years 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 limitations on how long an implied warranty lasts or the exclusion or limitation 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

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**RadioShack Corporation**  
**Fort Worth, Texas 76102**

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