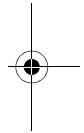
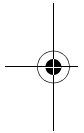


RadioShack®

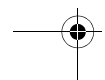
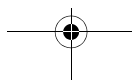
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AM/FM/Cassette Car Stereo **with Front Auxiliary Jack** **and Detachable Front Panel**



Owner's Manual
Please read before using this equipment.



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□ Features

Your RadioShack AM/FM/Cassette Car Stereo has an auto-reverse cassette deck and an AM/FM radio with memory and seek tuning, making the stereo easy to use. The tuner's digital synthesized PLL (phase-locked loop) circuitry gives you precise tuning and drift-free reception.

Caution: Use common sense. Do not change your stereo's settings in heavy traffic or during hazardous driving conditions.

This stereo's features include:

Flat-Face Design — provides push-button operation for all controls; there are no knobs to turn.

Anti-Theft Control Panel — lets you quickly remove and store the stereo's control panel in the supplied carrying case. This discourages theft because the stereo cannot operate without the control panel.

Front Auxiliary Jack — lets you quickly connect a portable music player (such as a CD [compact disc], MD [mini-disc], or MP3) to the stereo so you can play your favorite music in your vehicle.

Line-Level Outputs — let you connect the stereo to external power amplifiers, boosters, or other accessories that have line-level input jacks.

Buzz Alarm — sounds if you connect the speaker wires in such a way that circuit damage could result.

Built-In Noise Suppression Choke — reduces the noise caused by your vehicle's electrical system.

Liquid Crystal Display with Clock — lets you easily see the stereo's current functions, as well as the time.

Bass, Treble, Fader, and Balance Controls — let you adjust high and low sounds, the balance between the left and right speakers, and the balance between the front and rear speakers, so you can tailor the sound to suit your preferences.

Loudness Control — lets you boost your stereo's high and low frequencies for better sound at low volume levels.

Mute Control — lets you attenuate the stereo's sound with the touch of a button.

Band Button — lets you easily select one of the memory groups in the AM or FM band.

Memory Tuning — lets you store into memory up to 12 AM and 18 FM stations so you can quickly tune to those stations.

Memory Scan Tuning — scans all stations stored in the selected band, playing for about 5 seconds on each station.

Seek Tuning — searches forward or backward to the next strong station in the selected band.

Auto Reverse — allows continuous play of both sides of a cassette tape.

Locking Fast-Forward/Rewind — let you quickly wind the tape to the end or the beginning without holding down the button.

□ Installation

BEFORE YOU BEGIN THE INSTALLATION

Before you install your stereo, read all the instructions in this owner's manual. You should be able to answer all of these questions about your vehicle's electrical and sound systems.

- Which of the stereo's wires is the power wire?
- Which terminal in my vehicle's fuse box is for accessories?
- How do I connect a wire to the fuse box?
- Which stereo wires are line-level outputs and which are speaker outputs?

Also, be aware that installation in your vehicle might require cutting or modifying your vehicle.

Preparing the Mounting Area

Before you mount the stereo, make sure you have all the necessary materials. Then confirm that the stereo fits your vehicle's mounting area.

Notes:

- This auto sound stereo system is a DIN-E size unit that requires a $2\frac{1}{8}$ inch (54 mm) high by $7\frac{3}{16}$ inch (183 mm) wide and $6\frac{11}{16}$ inch (170 mm) deep mounting area.
- If the mounting area is too large, you might be able to mount the stereo with an in-dash installation kit, available at your local RadioShack store. Follow the installation kit's instructions to mount the stereo.

Cautions:

- Make sure your vehicle's mounting area is as level as possible.
- Be sure to avoid obstructions behind the mounting surface.

Routing Speaker Wires

If you install speakers, avoid routing the speaker wires near moving parts or sharp edges. You can usually route them along the wiring channel beneath the vehicle's door facings by carefully removing the molding that holds the carpet in place. After you route the speaker wires, replace the molding.

MAKING THE CONNECTIONS

The supplied wiring harness with the 14-pin connector includes all the wires you need to connect the stereo to ground, power, some optional components, and speakers.

Important: Do not cut these wires. If you cut any wire, you cannot obtain a refund or exchange on this product. RadioShack *will* provide warranty service if you cut a wire and find the product is defective.

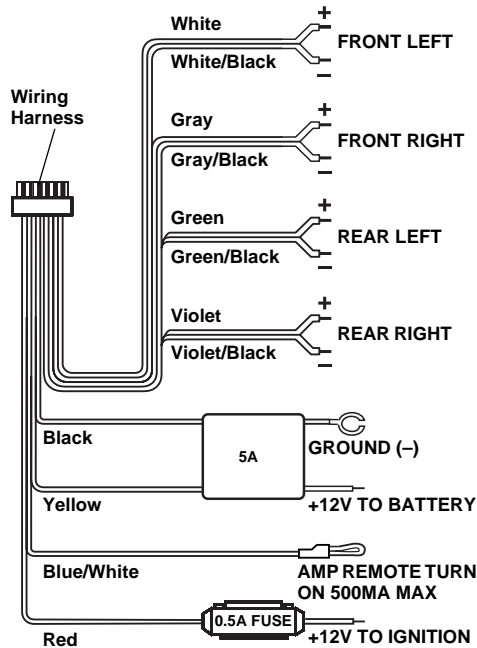
You might need additional wire to complete the connections, depending on your individual auto sound system. Your local RadioShack store carries a full line of wire and wire management accessories.

Cautions:

- For added safety and to protect your stereo, disconnect your vehicle battery's negative (-) cable before you begin.

- Be sure your speakers can handle 32 watts of power (16 watts per channel). Each speaker must have an impedance of at least 4 ohms. Your local RadioShack store carries a full line of speakers.
- You must connect the **GROUND (-)**, **+12V TO IGNITION**, and **+12V TO BATTERY** wires first, then make all other connections as described in the following sections before you plug the harness with the 14-pin connector into the stereo. If you do not make connections in the order shown, damage to the stereo is possible.
- You must connect a separate wire to each speaker terminal as described in the following procedure. Do not use a common wire or chassis ground for any speaker connection.

Note: Each wire in the wiring harness is a different color and is labeled as shown.



Using an Adapter Harness

If you are replacing an existing stereo, or if your vehicle has been factory-wired for auto sound components, you might be able to use an adapter harness to connect the power and speakers. RadioShack stores sell adapter harnesses for most vehicles.

Follow the directions that come with the adapter harness to temporarily connect the power and speakers.

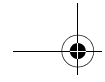
Connecting Ground, Power, and Optional Components

Follow these steps to connect the supplied wiring harness to ground, primary and memory backup power, and optional components.

1. Disconnect your vehicle battery's negative (-) cable.
2. Connect the black **GROUND (-)** wire (with filter and fuse box) to a chassis ground, such as a metal screw attached to a metal part of the vehicle's frame. Be sure the screw is not insulated from the chassis by a plastic part.
3. Connect the red power (**+12V TO IGNITION**) wire (with in-line fuse holder) to a point in your vehicle's fuse block that has power only when you turn the vehicle's key to either the accessory (ACC) or START position.

This connection turns on the stereo when you turn on the ignition or turn the key to ACC, and turns off the stereo when you turn off the ignition. This prevents your vehicle's battery from being drained if you leave the stereo on when you turn off the ignition.

4. Connect the yellow power/memory (**+12V TO BATTERY**) wire (with filter and fuse box) to your vehicle battery's positive (+) terminal or to a point in your



vehicle's fuse block that provides a continuous source of 12 volts.

This connection provides power for the stereo's components, and continuous power for the stereo's memory when the ignition is turned off.

5. If you have any optional equipment that you want the stereo to turn on and off (such as a booster or a power antenna), remove the black cover from the end of the blue/white (**AMP REMOTE TURN ON 500MA MAX**) wire. Then connect the wire to that equipment, as long as it is designed to run from a switched source.

This wire does not provide power to the components. If you do not use this wire, secure it with a wire tie and do not let it touch metal.

Testing the Power Connections

1. Temporarily connect the wiring harness to the stereo's 14-pin wiring socket.
2. Reconnect your vehicle battery's negative (-) cable.
3. Turn on your vehicle's ignition and install your stereo's control panel (see "Installing the Control Panel" on Page 9). Verify that everything works properly (the stereo works properly when the display lights).

Notes:

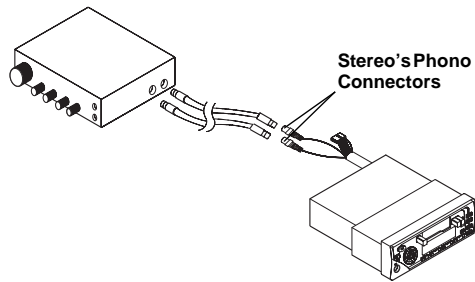
- If the display does not light, immediately turn off your vehicle's ignition and disconnect your vehicle battery's negative (-) cable. Then recheck your connections.
- If the stereo works properly, remove your stereo's control panel.

4. Disconnect your vehicle battery's negative (-) cable.

5. Disconnect the wiring harness from the stereo's 14-pin wiring socket.

Connecting an Equalizer or Booster/Amplifier

To connect the stereo to a separate equalizer or booster/amplifier, you will need additional wires (not supplied, available at your local RadioShack store). First, remove the protective covers from the phono connectors on the ends of the stereo's split **LINE OUTPUT** wire.

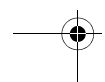
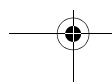


For specific instructions about connecting wires to the equalizer or booster, consult the owner's manual for the equalizer or booster.

Connecting Two Pairs of Speakers

If you are using both front and rear speakers, follow these steps to connect the wiring harness to the speakers.

1. Connect the white wire to the left front speaker's positive terminal. This terminal is usually marked with a plus (+) sign or a red mark.
2. Connect the white/black wire to the left front speaker's negative terminal. This terminal might be marked with a minus (-) sign or it might not be marked at all.



3. Connect each of the other six wires to its appropriate speaker terminal, as specified by the label attached to each wire (see the diagram in "Making the Connections" on Page 4).

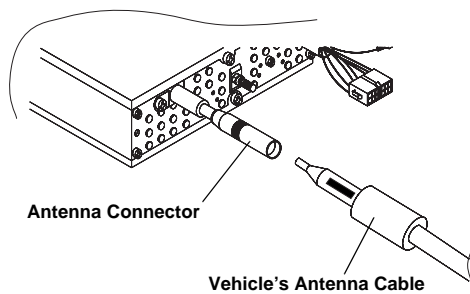
Connecting One Pair of Speakers

If you are using only one pair of speakers, follow these steps to connect the wiring harness to the speakers.

1. Connect the white wire to the left speaker's positive terminal. This terminal is usually marked with a plus (+) sign or a red mark.
2. Connect the green/black wire to the left speaker's negative terminal. This terminal might be marked with a minus (-) sign or it might not be marked at all.
3. Connect the gray wire to the right speaker's positive terminal.
4. Connect the violet/black wire to the right speaker's negative terminal.

Connecting the Antenna

Connect the vehicle's antenna cable to the stereo's large black antenna connector on the back of the stereo.



Completing the Connections

After you have securely made all other connections, plug the wiring harness' connector

into the stereo's 14-pin wiring socket. Then reconnect your vehicle battery's negative (-) cable.

TESTING THE CONNECTIONS

Reset your stereo's display (see "Resetting the Stereo" on Page 15). Then install your stereo's control panel (see "Installing the Control Panel" on Page 9). The display should light and you should hear a station through the speakers when you play the radio (see "Playing the Radio" on Page 11).

Note: If the display does not light and you do not hear a station, **immediately turn off your vehicle's ignition and disconnect your vehicle battery's negative (-) cable.** Then recheck your connections.

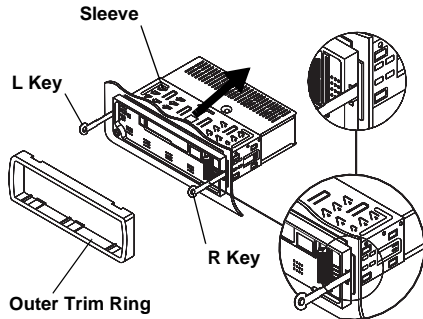
After you verify that the display lights and you hear a station, follow the instructions in "Mounting the Stereo."

MOUNTING THE STEREO

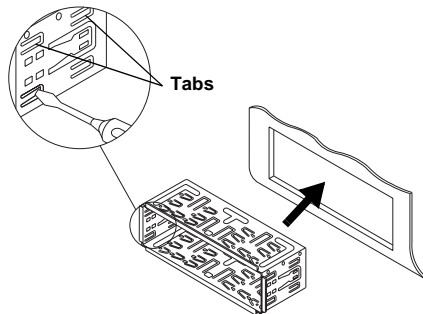
Be sure you verify that the stereo is connected properly (see "Testing the Connections"). Then follow these steps to mount the stereo.

1. Make sure the ignition is turned off, then disconnect your vehicle battery's negative (-) cable.
2. Disconnect the 14-wire harness from the stereo's 14-pin wiring socket, then disconnect the antenna.
3. Press **REL** (release) on the upper left corner of the control panel and remove the control panel.
4. Lift the top of the outer trim ring then pull it out to remove it.
5. The two supplied keys release tabs inside the stereo's sleeve so you can remove it. One key is marked **R** (for the

right side) and the other is marked **L** (for the left side). Insert the keys as far as they will go (with the notches facing up) into the appropriate slots at the middle left and right sides of the stereo. Then slide the sleeve off the back of the stereo.

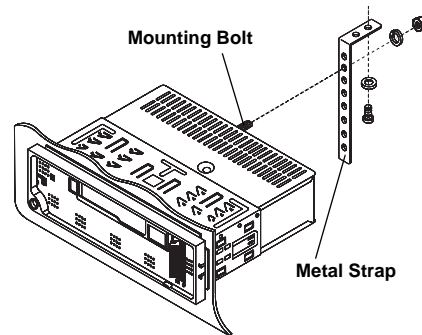


6. Insert the sleeve into the dash. Then secure the sleeve to the dash by bending out all the tabs with a screwdriver.



7. Pull the wiring harness through the front of the sleeve, then reconnect it to the stereo's 14-pin wiring socket.
8. Pull the vehicle's antenna cable through the front of the sleeve, then reconnect the antenna.
9. Being careful not to pinch any wires or cables, slide the stereo into the sleeve until it locks into place.
10. To further secure the stereo, use the supplied hardware to attach one end of

the supplied metal strap to the mounting bolt on the back of the stereo. If necessary, bend the metal strap to fit your vehicle's mounting area. Then use the supplied sheet metal screw to attach the other end of the strap to a solid metal part of the vehicle under the dashboard. This strap also helps ensure proper electrical grounding of the stereo.



11. Reconnect your vehicle battery's negative (-) cable. Then replace the outer trim ring and install the stereo's control panel.

You might need to reset the stereo's clock after you reconnect the vehicle battery's cable (see "Setting the Clock" on Page 10).

REMOVING THE STEREO FROM THE DASH

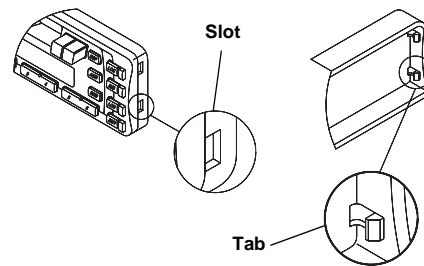
To remove the stereo from the dash, follow these steps.

1. Make sure the ignition is turned off, then disconnect your vehicle battery's negative (-) cable.
2. Remove the metal strap from the back of the stereo (if attached).
3. Press **REL** to remove the control panel.
4. Lift the top of the outer trim ring then pull it out to remove it.

5. Insert the supplied R (right) and L (left) keys as far as they will go (with the notches facing up) into the appropriate slots at the middle left and right sides of the stereo. Lift up slightly on the keys, then use the keys as handles to pull the stereo part way out of the dash. Grasp the front portion of the stereo with your hand to pull it out the rest of the way.

6. Disconnect the 14-wire harness from the stereo's 14-pin wiring socket, then disconnect the antenna.

7. Reconnect your vehicle battery's negative (-) cable.



2. Gently press the left edge of the control panel into the recess until you hear a click.

USING THE DETACHABLE CONTROL PANEL

The stereo's control panel must be in place for the stereo to operate. When you remove it, the display turns off, the stereo cannot be used, and a red indicator flashes. This is a simple but effective security measure.

Any stored stations remain in memory when you remove the control panel.

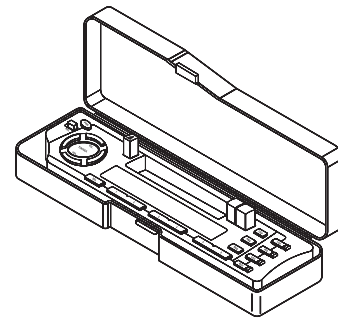
Removing the Control Panel

1. Press REL until you hear a click. The control panel swings out.
2. Remove the control panel, then store it in the supplied carrying case.

Installing the Control Panel

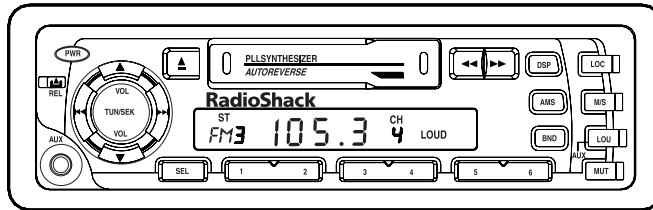
Caution: Avoid pushing on the display or pressing any buttons while installing the control panel.

1. Insert the right edge of the control panel into the right edge of the stereo's front recess. Make sure the tabs in the recess fit into the slots near the edge of the control panel.



Caution: To keep the metal connecting pins clean, do not touch the connecting pins in the stereo's front recess or the back of the control panel.

□ Operation



TURNING THE STEREO ON AND OFF

To turn the stereo on or off, press **PWR** (power).

SETTING THE CLOCK

1. If the stereo is off, press **PWR** to turn it on.
2. The display normally shows the clock. If necessary, press **DSP** (display) until the clock display appears.
3. Hold down **DSP** until the time display flashes. (If you do not press a button within about 3 seconds, the display stops flashing.)
4. Repeatedly press **TUN/SEK** (tune/seek) **◀◀** until the stereo displays the correct hour. (To quickly advance the hour, hold down **TUN/SEK** **◀◀**.)
5. Then press **TUN/SEK** **▶▶** until the stereo displays the correct minute. (To quickly advance the minute, hold down **TUN/SEK** **▶▶**.)

ADJUSTING THE SOUND/TUNING

When you listen to your stereo, adjust these controls to suit your listening preferences and tune the stereo.

SEL (select) — Repeatedly press to select the Volume, Bass, Treble, Balance, or Fader audio setting.

VOL (volume) **▲** or **VOL** **▼** — Press to adjust the level of Volume, Bass, Treble, Balance, or Fader.

Warning: To protect your hearing, do not listen at high volume levels. Slowly increase the volume to a comfortable listening level.

TUN/SEK **▶▶** or **TUN/SEK** **◀◀** — Hold down for about two seconds to automatically seek the next clear station. Repeatedly press for manual up or down tuning.

AMS (automatic memory scan) — Hold down to automatically scan and store the next six strong stations in the selected band, or press to scan all stations stored in a selected memory group (see "Memory Tuning" on Page 11).

BND (band) — Press to select the desired band and memory group.

LOC (local/DX) — Press to improve reception of a strong station.

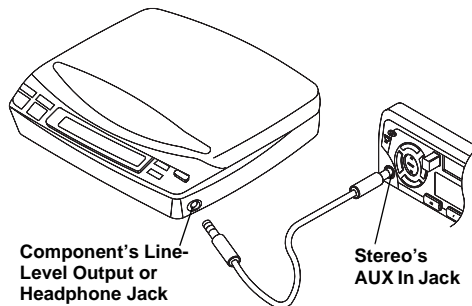
M/S (monaural or stereo) — press to select stereo or mono reception (FM band only).

LOU (loudness) — Press to boost the audio output.

MUT (mute) — Press to attenuate the sound.

USING AN EXTERNAL AUDIO COMPONENT

You can connect a separate audio component, such as a portable CD player, to your stereo, as long as the component has a line-level output or headphone jack. To make the connection, you need a stereo mini-jack cable with a $\frac{1}{8}$ inch (3.5 mm) plug (not supplied, available at your local RadioShack store). Connect one end of the cable to the stereo's **AUX** in jack, then connect the other end of the cable to the component's line-level output jack.



When you connect an external audio component then turn it on, you hear the component's sound through your speakers. You can use the stereo's controls to adjust the sound.

Notes:

- If you connect an external audio component's headphone jack to the stereo, adjust the audio component's volume to a low level then adjust the stereo's volume to a comfortable listening level.
- When you connect a cable to the stereo's **AUX** in jack, the radio and cassette player do not operate. **PLY** appears for about 5 seconds before the clock displays the time. Disconnect the audio component when you are not using it.

RADIO OPERATION

Playing the Radio

1. Press **BND** to change between the FM and AM bands. The FM band is divided into three memory groups; the AM band is divided into two memory groups. You can store up to six stations in each memory group.
2. Repeatedly press **BND** to select a specific memory group. **FM1**, **FM2**, or **FM3** appears when you select an FM band. **AM1** or **AM2** appears when you select an AM band.
3. Tune to a station in one of the following ways:

Manual Tuning: Repeatedly press **TUN/SEK** **▶▶** or **TUN/SEK** **◀◀** to tune up or down to the desired station.

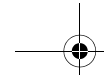
Seek Tuning: Hold down **TUN/SEK** **▶▶** or **TUN/SEK** **◀◀** for about two seconds to seek the next clear station.

Notes:

- The stereo stops on both strong and weak stations. To limit seek tuning to only strong stations, press **LOC** until **LOC** appears.
 - When the stereo receives an FM signal, **ST** appears. The sound is in stereo.
4. Adjust the stereo's controls to suit your listening preferences (see "Adjusting the Sound/Tuning" on Page 10).

Memory Tuning

You can manually store up to 12 AM and 18 FM stations in memory groups. Each memory group (FM1, FM2, FM3, AM1, and AM2) holds up to six stations. You can manually



enter stations into a memory group, or you can let the stereo search for six stations in a band and automatically enter these into a group.

Manually Storing Stations

1. Repeatedly press **BND** to select the desired memory group (FM1, FM2, FM3, AM1, and AM2).
2. Tune to the station you want to store.
3. Hold down the desired memory channel button (1–6). The stereo beeps; continue holding the button. In about 5 seconds you hear another beep and the stereo displays the memory channel number and the selected station's frequency. Release the button.

Automatically Storing Stations

1. Repeatedly press **BND** until the stereo displays the band and memory group where you want to store a group of stations. For example, to store the first group of AM stations into AM1, repeatedly press **BND** until **AM1** appears.
2. Tune to a frequency just before the first station you want to store.
3. Hold down **AMS** (automatic memory scan) for about 3 seconds. Beginning where it was last set, the stereo scans the selected band and automatically stores the first 6 strong stations it finds.

The memory group number (such as **FM2**), station frequency (such as **97.7**), and memory channel number (such as **3**) appear when each station is stored. After all 6 stations are stored, the stereo tunes to the first station and begins to play.

Notes:

- The stereo beeps as it stores each station.

- If the stereo could not find 6 strong stations, it scans again, searching for weaker stations and storing them into any remaining memory locations.

4. When the stereo has stored all the stations you want or you want to stop searching for stations before all stations are stored, press **AMS** again.

Note: If you do not press **AMS**, the stereo continues to scan the band, tuning to each stored station for about 5 seconds.

Selecting a Stored Station

To select a stored station, repeatedly press **BND** to select the desired memory group, then press the desired memory channel button.

Note: Do not hold down the memory channel button. This stores the currently tuned station into that channel.

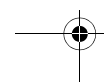
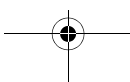
Scanning Stored Stations

The radio can scan all stored stations in the selected band, pausing for 5 seconds at each station. It scans all three memory groups in the FM band or both memory groups in the AM band.

To start scanning stored stations, briefly press **AMS**. As the radio scans each memory channel, its channel number flashes.

Note: Do not hold down **AMS**. This causes the radio to automatically store stations into the selected memory group.

To stop scanning when the radio pauses on a station you want to listen to, press **AMS** again. The memory channel number stops flashing.



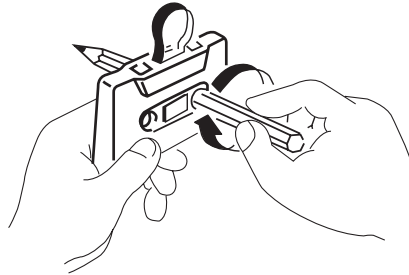
USING THE CASSETTE PLAYER

Playing a Cassette

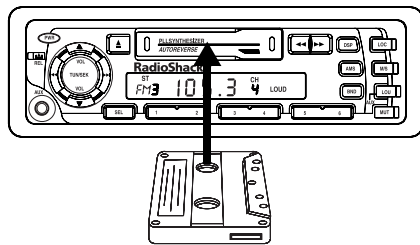
Caution: Avoid using C-120 cassette tapes. They are very thin and can easily become tangled in the tape-handling parts.

Follow these steps to play a cassette tape.

1. Take up any slack by turning the cassette's hub with your finger or a pencil. (Avoid touching the tape.)



2. If the stereo is off, press **PWR** to turn it on.
3. Insert the tape into the cassette compartment with its open edge to the right. **TAPE ▶** or **TAPE ◀** and **PLY** appear, and the tape begins to play.



4. Press **VOL ▲** or **VOL ▼** to adjust the volume as desired.
5. Repeatedly press **SEL** until the desired audio setting appears — **BAS** (bass), **TRE** (treble), **BAL** (balance), or **FAD**

(fader). Then press **VOL ▲** or **VOL ▼** to adjust the selected setting as desired.

6. Press **▲** all the way in to stop the tape and eject it. The radio plays.

Caution: When you insert a tape into the cassette compartment, the tape-handling parts continue to touch the tape until you press **▲** to eject the tape. Be sure you eject the tape as soon as you finish playing it or before you leave your vehicle to release it from the tape-handling parts. This reduces the possibility of a tape being inadvertently tangled or damaged.

Notes:

- When the tape reaches one end, the cassette player automatically changes the tape's direction and plays the other side. Play continues until you press **▲**.
- During play, you can play the other side of the cassette by pressing **◀◀** and **▶▶** at the same time.

Fast-Forward and Rewind

To fast-forward or rewind the current side, firmly press **▶▶** or **◀◀**, depending on which side of the tape is playing. The button locks internally and the tape quickly winds in the selected direction. Play resumes when the end of the tape side is reached.

To stop fast-forward or rewind before the end of the tape side, gently press the opposite button. Play continues.

Care

To enjoy your RadioShack AM/FM/Cassette Car Stereo for a long time:

- Keep the stereo dry. If it gets wet, wipe it dry immediately.
- Handle the stereo gently and carefully. Do not drop it.
- Keep the stereo away from dust and dirt.
- Wipe the stereo with a damp cloth occasionally to keep it looking new.

Modifying or tampering with the stereo's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it. If your stereo is not performing as it should, take it to your local RadioShack store for assistance.

THE FCC WANTS YOU TO KNOW

Your stereo might cause TV or radio interference even when it is operating properly. To determine whether your stereo is causing the interference, turn off your stereo. If the interference goes away, your stereo is causing it. Try to eliminate the interference by:

- Moving your stereo away from the receiver
- Contacting your local RadioShack store for help

If you cannot eliminate the interference, the FCC requires that you stop using your stereo.

TAPE TIPS

Restoring Tape Tension and Sound Quality

After you play a cassette tape several times, the tape might become tightly wound on the reels. This can cause playback sound quality to deteriorate.

To restore the sound quality, fast-forward the tape from the beginning to the end of one side, then completely rewind it. Then loosen the tape reels by gently tapping each edge of the cassette on a flat surface.

Caution: Be careful not to damage the cassette when tapping it. Do not touch the exposed tape or allow any sharp objects near the cassette.

Cleaning the Tape-Handling Parts

Dirt, dust or particles of the tape's coating can accumulate on the tape heads and other parts that the tape touches. This can greatly reduce the performance of the cassette player. After about every 20 hours of cassette player operation, clean the tape-handling parts. Insert a special head-cleaning cassette (not supplied, available at your local RadioShack store), and follow the cassette's directions to clean the tape head.

REPLACING THE FUSES

If the stereo does not operate, you might need to replace the red wire's in-line fuse with the supplied 0.5A spare fuse. If the clock resets or stored stations are lost when the ignition is off, you might need to replace the black and yellow wires' fuse (inside the filter and fuse box) with the supplied 5A spare fuse. Check both fuses.

Caution: Make sure you replace a fuse only with another fuse of the same rating.

Note: A fuse's amp rating is stamped on its metal end. Be sure to use the correct spare fuse to replace a failed fuse. Use only 6 × 30-millimeter fast-acting fuses.

1. Disconnect your vehicle battery's negative (-) cable.
2. Lift the long latch on the red wire's in-line fuse holder, then open the holder. Lift the fuse out of the holder by lifting up on the red wires at both ends of the fuse. Remove the fuse from the fuse clips.

If the fuse is blown, replace it with the supplied 0.5A spare fuse. Replace the fuse clips and press the fuse back into the holder. Squeeze the in-line fuse holder together until it latches.

3. Lift the latch near the bottom edge of the black and yellow wires' filter and fuse box, then open the box. Use the tip of a pen to lift one end of the fuse out of its

clip. Then lift the fuse and gently pull it out of the other fuse clip.

If the fuse is blown, replace it with the supplied 5A spare fuse. Press the fuse into the fuse clips, then close the fuse box. Close the latch by pressing on it until both the right and left sides of the latch snap into place.

4. Reconnect your vehicle battery's negative (-) cable.

RESETTING THE STEREO

If the stereo locks up, or does not work properly, reset the stereo.

1. If the stereo is on, press **PWR** to turn it off.
2. Press **REL** to remove the control panel.
3. Use a pointed object (such as the tip of a pen or a straightened paper clip) to press the small black rectangular **RESET** button in the lower right portion of the stereo's front recess.
4. Replace the control panel.

▣ Specifications

RADIO

	FM (Nominal)	AM (Nominal)
Frequency Range	88–108 MHz	530–1710 kHz
Frequency Response (±3 dB)	50–12,000 Hz	50–2000
IF Rejection	60 dB	60 dB
Image Rejection	48 dB	50 dB
Selectivity	35 dB	30 dB
Signal-to-Noise (S/N) Ratio	60 dB	48 dB
Stereo Separation	30 dB	N/A
Usable Sensitivity	5.0 μV (50 dB S/N)	56.23 μV (20 dB S/N)

CASSETTE PLAYER

Cassette Mechanism Auto Reverse
 Wow and Flutter Less than 0.35% WRMS
 Signal-to-Noise Ratio 50 dB
 Separation 38 dB
 Frequency Response (± 3 dB) 125–8,000 Hz

GENERAL

Power Source 12V DC Negative Ground
 Speaker Output Impedance 4 or 8 Ohms
 Maximum Power:
 One Pair of Speakers 25 Watts/Channel
 Two Pairs of Speakers 7 Watts/Channel
 Power Output (10% THD @ 1 kHz):
 One Pair of Speakers 16 Watts RMS/Channel
 Two Pairs of Speakers 5 Watts RMS/Channel
 Chassis Size (HWD) $2^{5/16} \times 7^{1/8} \times 7$ Inches ($59 \times 181 \times 178$ mm)
 Weight 3.9 lb (1.76 kg)

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

Limited One-Year Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for one (1) year 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

We Service What We Sell

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RadioShack Corporation
Fort Worth, Texas 76102

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