

ACCURIAN®

HD Radio

12-1686

User's Guide



Thank you for purchasing this Accurian HD Radio. Your HD Radio plays your favorite programming, plus new, expanding choices and amazing clarity. It enhances audio fidelity for both AM and FM bands, providing digital-quality sound and simple operation in a compact, tabletop stereo radio. AM sounds more like current FM, and FM has CD-like audio quality, virtually eliminating the static, hiss, pops, and fades of today's analog radios.

WHAT'S INCLUDED

HD Radio

Remote Control

User's Guide

FM Antenna

AM Antenna

Power Supply and AC Cord



Please read this user's guide before installing, setting up, or using your new HD Radio.

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How HD Radio works

HD Radio produces a smooth, natural response and room-filling sound that belies its compact size. HD Radio stations can broadcast data (artist and song information, weather, traffic, and more) and multiple channels at their same, familiar position on the radio dial.

1. The digital signal is compressed using HD Radio compression technology.
2. Stations bundle both analog and digital audio signals, and the combined analog and digital signals are transmitted. The signal will be compatible with both HD Radio receivers and analog radios.

HD Radio receivers are designed to reduce static, hiss, pops, and fades by sorting through reflected signals and multi-path distortion. Multi-path distortion is the most common form of interference, and occurs when part of a signal bounces off an object and arrives at the receiver at a different time than the main signal.

To learn more about HD Radio technology and to find HD Radio Stations, visit www.hdradio.com.



Quick Start

Connecting Your Radio

To avoid interference, keep the power supply away from the radio while in use.

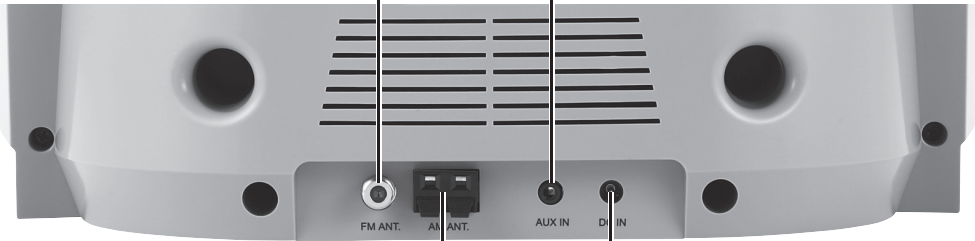
FM ANT

Connect FM antenna. Use the "T" shaped antenna in more remote areas.



AUX IN

Connect auxiliary devices with headphone output. To listen to auxiliary devices, select **AUX** mode.



AM Antenna

Press down the two spring terminals, connect the AM antenna wires, and position the antenna for the best reception.



DC IN

Plug the power supply into the DC IN port, plug the AC cord into the power supply, and then plug the AC plug into the wall outlet.



Cable Radio Signals

The Radio's FM antenna connector is a standard F-connector and will accept cable FM feeds from most cable systems that provide FM programming. To connect your radio to the FM signal from some cable TV providers, contact your cable TV provider for assistance.

The installation must include a splitter that filters the signal to prevent any re-emission of the RF spectrum through the radio, so only the FM band, not the cable TV signal, is transmitted to the Radio. HD signals are not currently rebroadcast via cable providers.

Connecting Headphones

Insert the headphones plug into the stereo minijack on the front of the radio. Connecting headphones mutes the speakers.

Note: The headphone jack can be used as stereo output to another system.



Headphones

Your Radio Controls

POWER

Press to turn the radio on or off.

MODE / VOLUME

Press once to .select the source:
AM1, AM2, FM1, FM2, and AUX IN.
Turn to adjust the volume

PRESET STORE

Lets you save stations in the radio memory. See **Saving Preset Stations.**

CH - / +

Press to select a preset frequency.

TUN - / +

Press to tune a station up or down incrementally. Hold down to search for a frequency up or down.

CLOCK

Press to toggle between station information and date / time information. Hold to set the time and date.

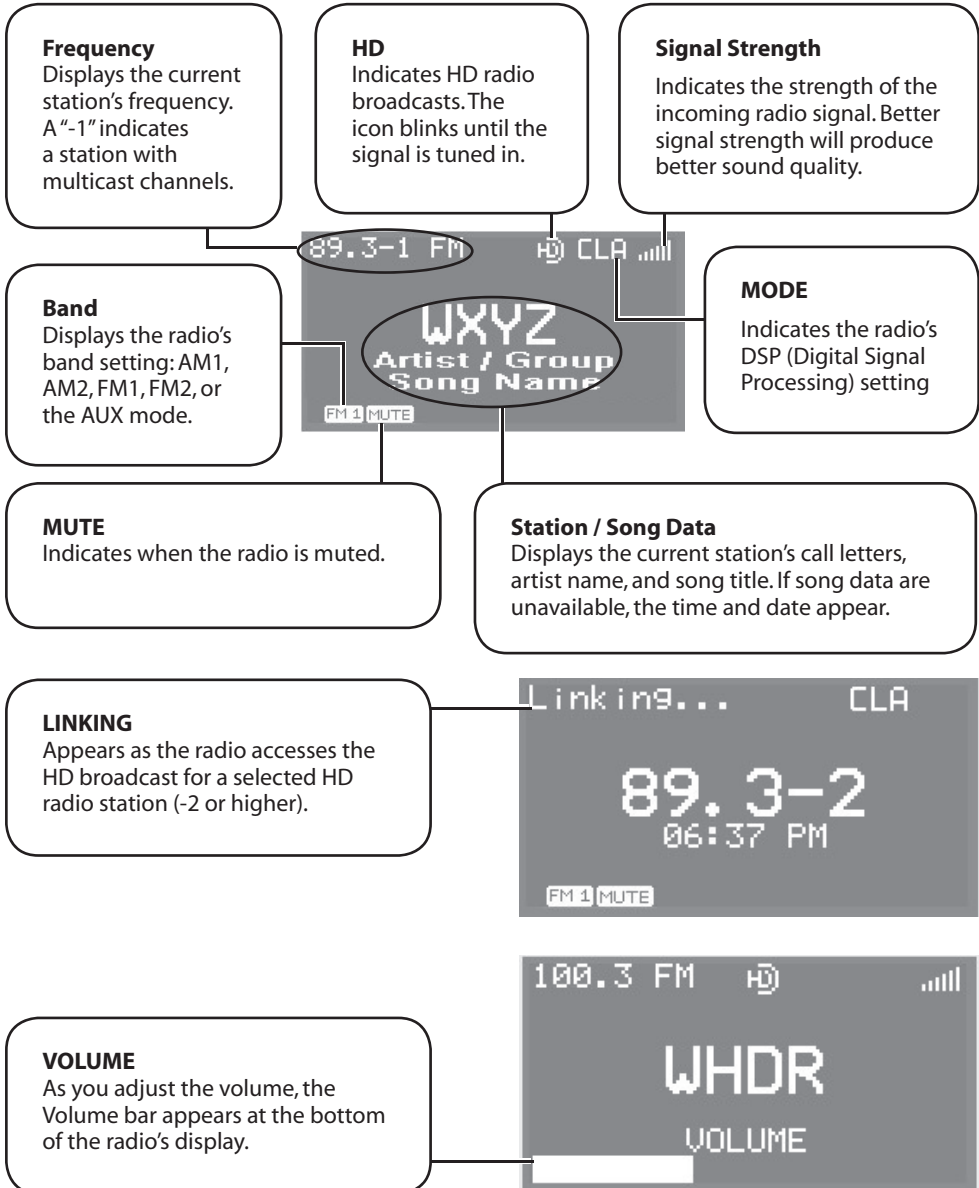
DSP

Press to set equalizer levels:
Normal / Classic / Rock / Jazz / Pop



Your Radio Display

Your HD Radio's display provides valuable information to help you access the radio's many features and functions.



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Seeking

When you hold down the Tune - / + buttons, the radio scans for the next available station.



Mode

When you change the radio's mode, the station information appears, or **AUX IN** for auxiliary input mode.



DSP

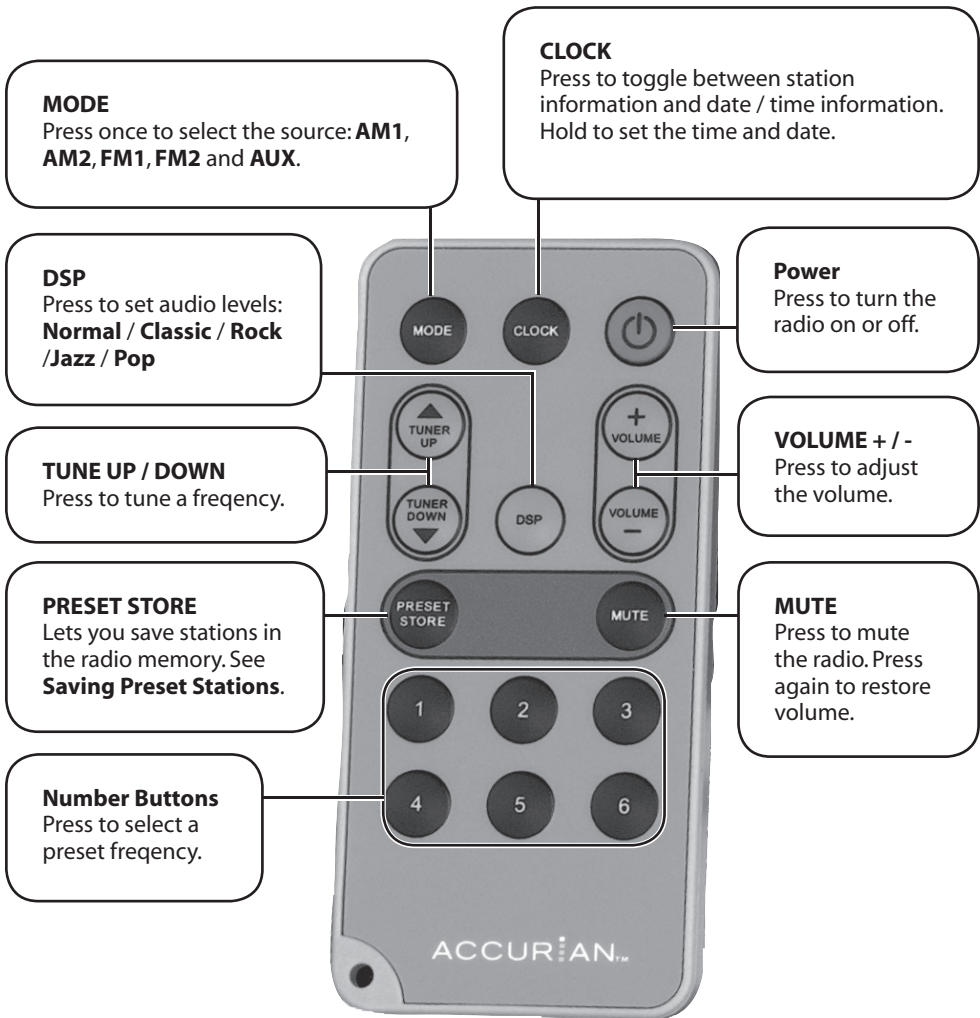
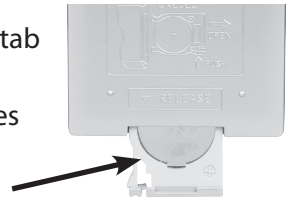
When you set the equalizer levels, the following icons appear in the radio display:



Your Remote Control

To use your remote control the first time, pull the plastic tab out of the battery compartment.

Your remote control helps you access your radio's features from a distance.



Replacing the Remote Control Battery

To replace the battery, use your thumb to push the battery compartment locking tab to the right and pull the compartment open. Insert the battery with the positive side (+) up and carefully close the compartment until it clicks. See the diagram on the remote for more information.

Storing Your Remote Control

To store your remote control, slide it under the available tabs on the back of your radio.



The Basics

Setting the Clock

To set your radio's clock, complete the following steps:

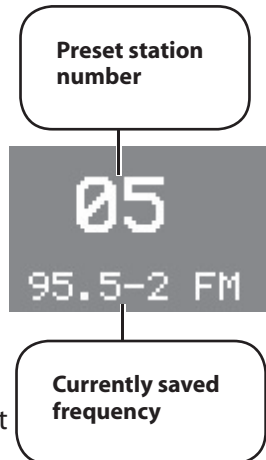
1. Turn on your radio.
2. Press and hold the **CLOCK** button until the time display appears with the hour blinking.
3. Use the **TUN - / +** buttons to set the hour and press the **CLOCK** button. The minutes value starts blinking.
4. Repeat step 3 for the minutes, AM/PM, date, month, and year. After you set the year, the radio display returns to normal with the updated date and time information.



Saving Preset Stations

To save a frequency in your radio's memory, complete the following steps:

1. Press **MODE** to select the band (AM1, AM2, FM1, FM2).
2. Select the frequency.
3. Press **PRESET STORE**.
4. Use the **CH- / +** buttons on the radio or use the number buttons on the remote control to select a preset station number.
5. Press **PRESET STORE** to save the preset station. If you don't press **PRESET STORE** again within a few seconds, the radio returns to normal mode without saving the frequency in memory.



Note: Your radio provides six preset positions for each band (AM1, AM2, FM1,

and FM2) for a total of 24.

Beyond the Basics

Multicast Channels

In addition to digital sound quality, HD Radio broadcasters can offer multiple programming channels simultaneously using their existing frequency on the radio dial. These additional channels can offer expanded news, talk, and music formats.

When your radio tunes in the HD channel, if a number appears on the right side of the station frequency (for example: 89.3-1), this indicates the existence of multicast services. Use the **TUNE - / +** to select a multicast channel for the frequency.

System Delay

Digital systems inherently produce an audio delay. To overcome this delay, HD Radio uses a station's analog signal to enable fast tuning of an AM or FM station. After approximately 5 seconds, the audio from the analog signal changes to digital HD Radio. If the radio station has implemented the HD Radio broadcast correctly, the blend is smooth. However, if the station has not, you will experience a skip in content of up to 5 seconds for a -2 or higher channel.

This is not an issue with your HD Radio. This is an HD Radio broadcaster's implementation issue, which should be corrected by the station over time. Today's analog is only present on the main channel. Should you tune directly to a station's multicast channel, the HD Radio Tabletop will delay playing audio or content for up to 5 seconds. This is normal operation.

FAQ

Why does my audio quality change after a few seconds on some HD Radio stations and on some other stations skip when I first tune in?

HD Radio stations blend analog signals to digital HD Radio. The blend is typically smooth, but in some cases, the audio quality can take a few seconds to reach enhanced digital levels. This is not an issue with your HD Radio. This is an HD Radio broadcaster's implementation issue, which the station should correct over time.

What can I do if my audio is unclear or I don't hear any audio?

If your radio audio is unclear or you don't hear any audio, you may be experiencing one of the following conditions:

- Is the radio muted? If so, unmute the radio or turn up the volume.
- Is the radio in AUX mode? If so, your auxiliary device may not be sending audio signals or may not be correctly connected.
- Is anything plugged into the headphone jack? If so, unplug it.
- Check all connections, including power and antenna.
- Is the signal too weak? If so, tune to a stronger station or reposition your radio and/or antenna.
- If you are using an antenna other than the one supplied, make sure the antenna supports FM reception. If the antenna uses an FM trap, make sure the FM trap is off.

Note: If you are using an amplified antenna with adjustable gain, turn down the gain all the way and adjust slowly upward.

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. Maintain a minimum distance of 2" (50mm) around the front, rear, and sides of the apparatus for sufficient ventilation. The ventilation should not be impeded by covering the ventilation openings or placing on or around the apparatus items such as newspapers, table cloths, curtains, etc.
15. No open flame sources, such as lit candles, should be placed on the apparatus.
16. The apparatus should not be exposed to dripping or splashing. No objects filled with liquids, such as vases, should be placed on the apparatus.

RF EMISSIONS INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment.
- Connect the equipment to an outlet on a circuit different from the device.

Consult your local **RadioShack** or an experienced radio/TV technician for help.

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

WARNING: Changes or modifications not expressly approved by **RadioShack** may cause interference and void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

LIMITED 90-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. For complete warranty details and exclusions, check with your local **RadioShack** store.

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Actual product may vary from images contained in this document.