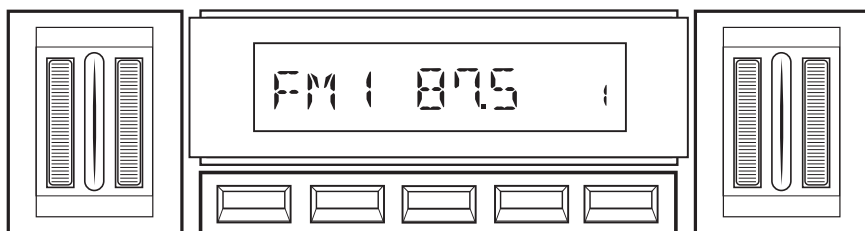


Redondo^{RT}

User Manual



AVAILABLE WITH



&



OR



RetroSound[®]

MODERN SOUND FOR YOUR CLASSIC

TABLE OF CONTENTS

General Features	2
Precautions	3
Accessories	4
Radio Operation Instructions	5
System Settings	7
USB Device Operation Instructions	16
Bluetooth® Device Operation Instructions	17
HD Radio™ Instructions	18
SiriusXM® Instructions	19
SiriusXM® Troubleshooting	23
DAB+ Information	24
Troubleshooting	25
Frequently Asked Questions	26
Specifications	28
Warranty	29
Declaration of Conformity	30

General Features *(available features vary by model)*

- AM/FM tuner with 30 presets and RDS (*Radio Data System*)
- DAB+ tuner with 30 presets *(available on export models)*
- HD Radio™ receiver (*Motor 4HD Only*)
- Selectable international tuner frequencies
- Built-in MOSFET amplifier
- Separate power antenna and amplifier turn-on leads
- Rear-mounted auxiliary inputs *(available on select models)*
- 3 EQ presets plus user-controlled bass, mid-range, treble, fader, and balance adjustments
- Selectable 32,000 color LCD illumination with user presets *(available on select models)*
- Rear-mounted USB ports play MP3, WMA and FLAC files *(available on select models)*
- USB charging at 2.1 amps (total) for cell phones and devices *(on select models and devices)*
- Built-in Bluetooth® for hands-free calling and audio streaming *Microphone included. (available on select models)*
- Multi-channel pre-amp outputs (*front, rear, subwoofer*) *(available on select models)*
- The only SiriusXM®-ready™ classic car radio *(SiriusXM® Connect vehicle tuner and subscription required) (Motor 4HD Only)*
- Made for iPod®/iPhone® (*Motor 4HD Only*)
- Wireless audio browsing from your iPhone® or Android device *(Motor 4HD Only)*
- Manufacturer warranty *(see page 29)*

PRECAUTIONS

PLEASE OBSERVE THESE PRECAUTIONS WHEN OPERATING THIS UNIT:

This user's manual does not cover the installation process. Please review the Quick-Start guides in your Radio Face and Thumb-Roller boxes carefully before attempting installation.

Retro Manufacturing, LLC is not liable for any problems resulting from improper installation of the unit.

If you have questions about installing your radio, visit our support website at **help.retromanufacturing.com**, contact us via email at **tech@retromanufacturing.com** or chat with us online.

- This unit is designed for operation with a negative ground 12-volt DC battery system. Do not operate this unit with other battery systems, especially an 18-volt or 24-volt DC or a positive ground system. If you have a 6-volt system, you need to either convert to 12-volt DC or purchase a separate inverter that will increase the voltage to 12-volts. NOTE: The inverter needs to be rated at 10 amps or higher for the radio to operate properly.
- This unit is not designed for a marine environment. Please do not use the unit where it will be exposed to moisture or excessive dust. Exposure to moisture will damage the unit and void your warranty.
- Keep the volume of your radio at a level that allows you to hear outside noises, such as emergency sirens and train crossing warnings. Prolonged exposure to high volume levels may also result in hearing loss.

The information enclosed in this user manual is a universal guide to assist you in your radio's operation. Some features covered in this manual are not available in every model.

This manual may be updated from time to time.

Please check our website for the latest updates:

www.retromanufacturing.com

Speakers

RetroSound® started in the speaker business and developed its radio line to be perfectly matched with RetroSound® speakers. Together RetroSound® radios and speakers produce the most accurate audio available for your classic car.

SHOP SPEAKERS

Amps & Subs

RetroSound® amplifiers and subwoofers are designed to work seamlessly with RetroSound® radios to fill in the low frequencies usually missing from a classic vehicle's sound system.

SHOP AMPS & SUBS

Speaker Pods

RetroPod® speaker modules are great for classics that have no factory speaker locations. They mount to any flat surface and direct sound towards the listener for a balanced mix. Paint or wrap them for a perfect match to the interior of your classic vehicle.

SHOP SPEAKER PODS

USB/AUX Extension Cable

The RetroSound® USB/Auxiliary extension cable is available in black or chrome and features a 53" extension of both a USB input and a standard 3.5mm auxiliary input.

USB/AUX EXTENSION CABLE

Antennas

RetroSound® offers OE-quality replacement antennas featuring chrome plated brass masts that are almost impervious to the elements and provide an improved ground plane for enhanced AM/FM reception.

ANTENNAS

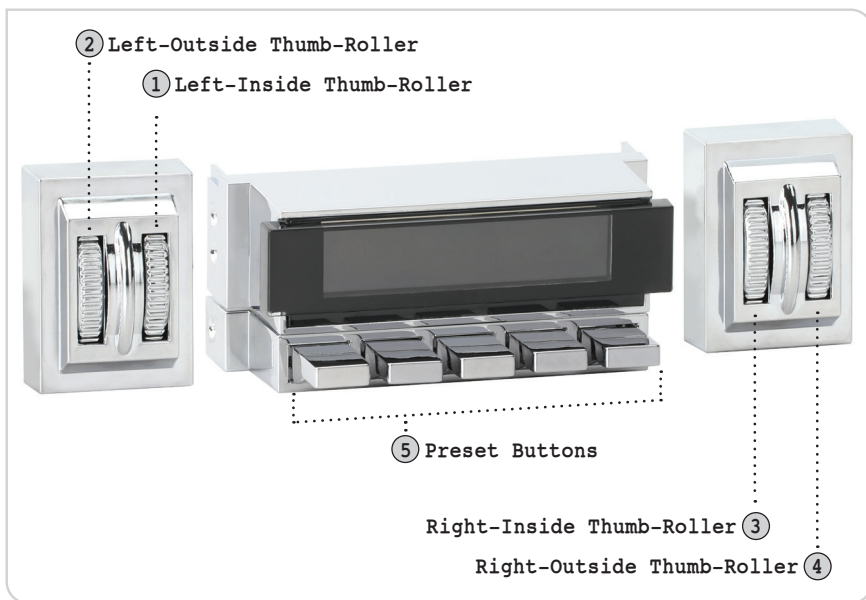
The RetroBelt logo is located inside a dark red oval with a white border. The word "RetroBelt" is written in a white, stylized script font, with a registered trademark symbol (®) to the upper right of the "t".

RetroBelt® offers two-point, three-point, and four-point seat belt systems for classic cars and trucks and are available in a variety of colors and styles to add modern safety to any vintage vehicle.

www.RetroBelt.com

Radio Operation Instructions

Front Panel Controls



IMPORTANT FIRST STEP

The following steps must be performed to set up the Radio Motor to function with the Redondo Thumb-Roller controls. Press and hold the Left-Inside Thumb-Roller(1) for approximately 15 seconds to reboot the radio into SEL PANEL mode. While holding the Left-Inside Thumb-Roller(1) the unit will display the following sequence: **RETROSOUND>RADIO>GOODBYE>TIME/DISPLAY>SEL PANEL**, continue holding the thumb-roller until **SEL PANEL** is displayed. Once SEL PANEL is displayed release the Left-Inside Thumb-Roller(1) and immediately press and release the Left-Inside Thumb-Roller(1) to cycle through the choices until REDONDO appears. The Display will Flash REDONDO 5 times and will turn off. Your Radio Motor is now configured to work with your Redondo Thumb-Roller controls..

Power On/Off

Press the Left-Inside Thumb-Roller(1) to turn the unit on. RETROSOUND will appear on the screen. Press and hold the Left-Inside Thumb-Roller(1) to turn the unit off. GOODBYE will appear on the screen to confirm that it has turned off.

Radio Operation Instructions

Volume

Rotate the Left-Outside Thumb-Roller(2) up or down to adjust the volume between 0-46 (*minimum-maximum*).

Mode (*available sources vary by model*)

Rotate the Left-Inside Thumb-Roller(1) down to select from available listening sources: RADIO(AM/FM/HD), DAB, AUX 1, AUX 2, USB 1, USB 2, BT Audio, or SiriusXM®.

NOTE: The USB mode will not appear unless a USB device is plugged in.

The USB and auxiliary inputs are located at the back of the Radio Motor. The auxiliary input(s) may be used to play music from any portable device with a standard headphone output, such as an MP3 player, iPod®/iPhone®, portable CD player, or portable satellite radio receiver. The USB inputs allow you to control your iPod®/iPhone® (*Motor 4HD Only*) or play music from a flash drive. The USB cables must be routed to an accessible area during installation to use the USB inputs. A USB/AUX extension cable may be required for your vehicle.

Radio Tuning

Rotate the Right-Outside Thumb-Roller(4) up or down to tune to the next or previous AM/FM frequency, HD Radio™ station (*when available*), or DAB/DAB+ channel.

NOTE: When the radio is tuned to a strong FM station, the stereo indicator will appear in the LCD's upper right corner (*two oval circles*).

Radio Bands

Rotate the Right-Inside Thumb-Roller(3) up to cycle through the five radio bands (*two AM and three FM*).

Storing Radio Presets

There are six radio presets for each radio band. Tune to the desired radio station and then press and hold the desired Preset Button(5) to store the station into memory. To set the sixth preset, tune to the desired radio station and then rotate and hold the Right-Inside Thumb-Roller(3) down.

Recalling Radio Presets

To recall radio presets, press the appropriate Preset Button(5) in the selected radio band. To recall the sixth preset, rotate the Right-Inside Thumb-Roller(3) down once.

Mute/Pause

Press the Right-Outside Thumb-Roller(4) to mute/unmute or pause/play depending on the source mode.

System Settings

System Settings

The System Settings sub-menu enables access to the numerous additional features of your RetroSound® Redondo radio. Press and hold the Right-Inside Thumb-Roller(3) for three seconds to access the sub-menu. Then Rotate the Right-Outside Thumb-Roller(4) up or down to cycle through the available sub-menu options. Once in a specific sub-menu, press and release the Right-Outside Thumb-Roller(4) again to change the options.

Auto Seek/Manual

This sub-menu toggles between auto seek or manual tuning. In Auto Seek mode, the radio will tune to the next available station when tuning.

To access the AUTO SEEK/MANUAL sub-menu, press and hold the Right-Inside Thumb-Roller(3) for three seconds, AUTO SEEK will be displayed. Press and release the Right-Inside Thumb-Roller(3) to select between AUTO SEEK or MANUAL. Once the desired setting is shown, let the unit time out to set.

A Store

This sub-menu activates A STORE which will automatically fill FM presets on all three FM bands, six presets each (*eighteen total presets*) with the strongest radio stations available in your area.

To access the A STORE sub-menu, press and hold the Right-Inside Thumb-Roller(3) for three seconds. Rotate the Right-Outside Thumb-Roller(4) up or down until A STORE appears on the screen. Press the Right-Outside Thumb-Roller(4) again to activate. This process can take up to one minute to complete.

Local/Distant

This sub-menu adjusts the sensitivity of the FM tuner. When listening to the FM tuner, selecting LOCAL will focus the tuner in the local area, making the signal stronger. Selecting DISTANT will broaden the signal and allow your local stations to be listened to at a greater distance when traveling.

To access the LOCAL/DISTANT sub-menu, press and hold the Right-Inside Thumb-Roller(3) for three seconds. Rotate the Right-Outside Thumb-Roller(4) up or down until LOCAL/DISTANT appears on the screen. Press and release the Right-Outside Thumb-Roller(4) to select the desired option. Once the desired setting is shown, let the unit time out to set.

Clock

This sub-menu sets the clock.

To access the CLK sub-menu, press and hold the Right-Inside Thumb-Roller(3) for three seconds. Rotate the Right-Outside Thumb-Roller(4) up

or down until CLK appears on the screen, then press the Right-Outside Thumb-Roller(4) to select. To adjust the hours, rotate the Right-Outside Thumb-Roller(4) up or down. Adjusting past 12 will change between AM and PM. Once the hour is set, press the Right-Outside Thumb-Roller(4) to accept and move on to the minutes. Immediately Rotate the Right-Outside Thumb-Roller(4) up or down to adjust the minutes. Once the desired time is shown let the unit time out to set.

Clock 12/24

This sub-menu changes the clock from a twelve-hour clock to a twenty-four-hour clock. The default setting is for a twelve-hour clock (*CLK 12*).

To access the CLK 12/24 sub-menu, press and hold the Right-Inside Thumb-Roller(3) for three seconds. Rotate the Right-Outside Thumb-Roller(4) up or down until CLK 12 appears on the screen. Press and release the Right-Outside Thumb-Roller(4) to select the desired option. Once the desired setting is shown, let the unit time out to set.

Display Frequency/Clock

This sub-menu sets the screen to display either the radio station you're listening to, (*DISP FREQ*), or the current time (*CLK*).

To access the DISP sub-menu, press and hold the Right-Inside Thumb-Roller(3) for three seconds. Rotate the Right-Outside Thumb-Roller(4) up or down until DISP FREQ appears on the screen. Press and release the Right-Outside Thumb-Roller(4) to select either DISP FREQ or DISP CLK. Once the desired setting is shown, let the unit time out to set.

Clock ON/OFF

This sub-menu sets the radio to display or hide the current time when the radio is off. The default setting displays the time when the radio is off (*CLK ON*).

To access the CLK ON/OFF sub-menu, press and hold the Right-Inside Thumb-Roller(3) for three seconds. Rotate the Right-Outside Thumb-Roller(4) up or down until CLK ON appears on the screen. Press and release the Right-Outside Thumb-Roller(4) to select the desired option. Once the desired setting is shown, let the unit time out to set.

Beep On/Off

This sub-menu sets the audible beep confirmation that sounds during the operation of the radio on or off. Select BEEP ON to hear the audible beep or BEEP OFF to disable it.

To access the BEEP sub-menu, press and hold the Right-Inside Thumb-Roller(3) for three seconds. Rotate the Right-Outside Thumb-Roller(4) up or down until BEEP appears on the screen. Press and release the Right-

System Settings

Outside Thumb-Roller(4) to select the desired option. Once the desired setting is shown, let the unit time out to set.

Display Color (*available on select models*)

This sub-menu changes the display color. The default setting is SCAN, which will cycle through all of the available colors.

To access the display color sub-menu, press and hold the Right-Inside Thumb-Roller(3) for three seconds. Rotate the Right-Outside Thumb-Roller(4) up or down until SCAN (or current color) appears on the screen. Press and release the Right-Outside Thumb-Roller(4) to select the desired color preset. Once the desired setting is shown, let the unit time out to set.

WARNING: Setting all RGB values to "00" will make the display unreadable. Resetting your radio will NOT reset the display.

To create a custom color, press and hold the Right-Inside Thumb-Roller(3) for three seconds to access the sub-menu system. Rotate the Right-Outside Thumb-Roller(4) up or down until SCAN (or current color) appears on the screen. Press and release the Right-Outside Thumb-Roller(4) until you see USER. Once USER is displayed, Rotate the Right-Outside Thumb-Roller(4) UP to access the RGB settings and press the Right-Outside Thumb-Roller(4) to select. Rotate the Right-Outside Thumb-Roller(4) up or down to set a color value for RED (example: R02), then press the Right-Outside Thumb-Roller(4) to move to the next color. Repeat the steps to adjust the values for Green and Blue. Once the value for Blue is set, press the Right-Outside Thumb-Roller(4) once to return to the USER menu and let the unit time out to set. If the color needs to be adjusted, repeat the steps above.

Dimmer High/Low

This sub-menu sets the radio's display brightness to high (*DIMM HIGH*), medium (*DIMM MEDIUM*), or low (*DIMM LOW*).

To access the DIMMER sub-menu, press and hold the Right-Inside Thumb-Roller(3) for three seconds. Rotate the Right-Outside Thumb-Roller(4) up or down until DIMMER appears on the screen. Press and release the Right-Outside Thumb-Roller(4) to select the desired option. Once the desired setting is shown, let the unit time out to set.

RDS (*Radio Data System*)

This sub-menu turns the RDS function on or off. RDS tuners can automatically tune in stations according to the music style (*or talk*) they broadcast. With the RDS function ON, and if the FM station you are listening to is broadcasting RDS information, the radio station call letters, song info, artist info, and other messages will appear on the display. Not all FM stations use RDS, nor will all RDS functions work in every location.

To access the RDS sub-menu, press and hold the Right-Inside Thumb-Roller(3) for three seconds. Rotate the Right-Outside Thumb-Roller(4) up or down until RDS appears on the screen. Press and release the Right-Outside Thumb-Roller(4) to toggle RDS ON or RDS OFF. Once the desired setting is shown, let the unit time out to set.

Program Type *(available when RDS is ON)*

This sub-menu allows you to select from 31 predefined program types (*i.e. News, Info, Sports*). Once set, you will be able to use PTY SEEK to find similar stations to your selected program type.

To access the PTY sub-menu, press and hold the Right-Inside Thumb-Roller(3) for three seconds. Rotate the Right-Outside Thumb-Roller(4) up or down until PTY appears on the screen. Press and release the Right-Outside Thumb-Roller(4) to enter the list of program types. Rotate the Right-Outside Thumb-Roller(4) up or down to select between the available options. Once the desired program type is shown, press the Right-Outside Thumb-Roller(4) to accept. PTY SEEK will appear on the screen, indicating that the radio is searching the FM band for stations with your selected program type. If none are found, the radio will revert to the last station selected.

Alternative Frequency *(available when RDS is ON)*

This sub-menu enables the radio to automatically search for another frequency that provides the same station when the signal gets weak. This setting is set to OFF by default.

To access the AF sub-menu, press and hold the Right-Inside Thumb-Roller(3) for three seconds. Rotate the Right-Outside Thumb-Roller(4) up or down until AF ON/OFF appears on the screen. Press and release the Right-Outside Thumb-Roller(4) to select the desired option. Once the desired setting is shown, let the unit time out to set.

Traffic Announcements *(available when RDS is ON)*

This sub-menu toggles the traffic announcements function on or off. The traffic announcements function is part of the RDS and allows FM stations to broadcast traffic announcements that scroll across the screen or audible traffic alerts to your radio. This setting is set to OFF by default.

To access the TA sub-menu, press and hold the Right-Inside Thumb-Roller(3) for three seconds. Rotate the Right-Outside Thumb-Roller(4) up or down until TA ON/OFF appears on the screen. Press and release the Right-Outside Thumb-Roller(4) to select the desired option. Once the desired setting is shown, let the unit time out to set.

Clock Time

This sub-menu toggles the clock time feature on or off. If the radio station

System Settings

supports clock time, your radio will synchronize its clock with the radio station's clock. This setting is set to OFF by default.

To access the CT sub-menu, press and hold the Right-Inside Thumb-Roller(3) for three seconds. Rotate the Right-Outside Thumb-Roller(4) up or down until CT ON/OFF appears on the screen. Press and release the Right-Outside Thumb-Roller(4) to select the desired option. Once the desired setting is shown, let the unit time out to set.

Bluetooth® On/Off *(available on select models)*

This sub-menu toggles Bluetooth® on or off. Bluetooth® must be enabled before you can connect a Bluetooth® device.

To access the BT sub-menu, press and hold the Right-Inside Thumb-Roller(3) for three seconds. Rotate the Right-Outside Thumb-Roller(4) up or down until BT ON/OFF appears on the screen. Press and release the Right-Outside Thumb-Roller(4) to select the desired option. Once the desired setting is shown, let the unit time out to set.

Bluetooth® Connect/Disconnect *(BT must be "ON")*

This sub-menu enables the radio to be discoverable on your Bluetooth® device. Choose BT CONNEC to allow your device to connect, and BT DISCON to disconnect Bluetooth® devices.

To access the BT CONNEC/DISCON sub-menu, press and hold the Right-Inside Thumb-Roller(3) for three seconds. Rotate the Right-Outside Thumb-Roller(4) up or down until BT CONNEC/DISCON appears on the screen. To connect a device, press and release the Right-Outside Thumb-Roller(4) to select BT CONNEC, then search for "RETRO-SOUND" in your phone's Bluetooth® device list. Enter password "0000" if prompted. To disconnect a device, press and release the Right-Outside Thumb-Roller(4) to select BT DISCON, then let the unit time out to disconnect the current device. (for Bluetooth® operation see page 17)

Area USA/EUR/AUS/JAP/RUS

This sub-menu allows you to set your area to receive the appropriate broadcasts for your region. The default setting is the United States (USA).

To access the AREA sub-menu, press and hold the Right-Inside Thumb-Roller(3) for three seconds. Rotate the Right-Outside Thumb-Roller(4) up or down until AREA USA appears on the screen. Press and release the Right-Outside Thumb-Roller(3) to select the desired region (USA/EUR/AUS/JAP/RUS). Once the desired region is shown, let the unit time out to set.

Volume Last/Adjust

This sub-menu adjusts the volume level at which the radio will turn on. The

default setting is VOL LAST, which means the radio turns on at the volume level at which the radio was turned off. VOL ADJUS allows you to preset the volume level at which the radio turns on from 0-46, regardless of the volume level at which the radio was turned off (see “Volume” on page 6).

To access the VOL sub-menu, press and hold the Right-Inside Thumb-Roller(3) for three seconds. Rotate the Right-Outside Thumb-Roller(4) up or down until VOL appears on the screen. Press and release the Right-Outside Thumb-Roller(4) to select the desired option. If VOL ADJUS is selected, Rotate the Right-Outside Thumb-Roller(4) up or down (*AD VAL is shown*) and press the Right-Outside Thumb-Roller(4) to accept. Rotate the Right-Outside Thumb-Roller(4) up or down to adjust the level between 0-46. Once the desired setting is shown, let the unit time out to set.

SEL Panel

This sub-menu changes the operating mode for specific Radio Faces.

WARNING: If the wrong setting is selected in this menu the radio's controls will not function properly.

To access the SEL PANEL sub-menu, press and hold the Right-Inside Thumb-Roller(3) for three seconds. Rotate the Right-Outside Thumb-Roller(4) up or down until SEL PANEL appears on the screen. Press and release the Right-Outside Thumb-Roller(4) to enter the panel choices. Rotate the Right-Outside Thumb-Roller(4) up or down to select the desired option. Once the desired setting is shown, let the unit time out to set.

RESETTING SEL PANEL MODE: With the vehicles ignition on and the time displayed on the Radio Face, press and hold the Left-Inside Thumb-Roller(1) for approximately 15 seconds to reboot the radio into the SEL PANEL sub-menu directly. (see “Important First Step” on page 5)

Software Info

This sub-menu displays the unit's software version.

To access the sub-menu, press and hold the Right-Inside Thumb-Roller(3) for three seconds. Rotate the Right-Outside Thumb-Roller(4) up or down until the software version appears on the screen (*example: V123456*).

System Reset

This sub-menu resets the unit to factory settings.

To access the RESET sub-menu, press and hold the Right-Inside Thumb-Roller(3) for three seconds. Rotate the Right-Outside Thumb-Roller(4) up or down until RESET appears on the screen. Press and release the Right-Outside Thumb-Roller(4) to reset the unit to factory settings. The unit will reset and turn off.

System Settings

Digital Signal Processor

This sub-menu sets the Digital Signal Processor (*DSP*) Setting. The default setting is off (*DSP OFF*).

When activated, you are able to select one of three preset equalization settings:

CLASSIC: This setting offers subtle sonic adjustments that lend themselves to classical music.

POP: This setting accentuates bass and treble frequencies and is suitable for popular music.

ROCK: This setting accentuates treble frequencies and is suitable for rock music.

To access the DSP sub-menu, press the Left-Outside Thumb-Roller(2), *DSP OFF* will be displayed. Rotate the Left-Outside Thumb-Roller(2) up or down to select from the available presets. Once the desired setting is shown, let the unit time out to set.

NOTE: If using one of the preset DSP settings, any manual adjustments to Mid, Bass, or Treble will not save when the radio is powered off.

Bass

This sub-menu adjusts the radio's bass levels.

To access the BASS sub-menu, press and release the Left-Outside Thumb-Roller(2) until BASS appears on the screen. Rotate the Left-Outside Thumb-Roller(2) up or down to select the desired level. Once the desired setting is shown, let the unit time out to set.

Mid

This sub-menu adjusts the radio's mid levels.

To access the MID sub-menu, press and release the Left-Outside Thumb-Roller(2) until MID appears on the screen. Rotate the Left-Outside Thumb-Roller(2) up or down to select the desired level. Once the desired setting is shown, let the unit time out to set.

Treble

This sub-menu adjusts the radio's treble levels.

To access the TREBLE sub-menu, press and release the Left-Outside Thumb-Roller(2) until TREBLE appears on the screen. Rotate the Left-Outside Thumb-Roller(2) up or down to select the desired level. Once the desired setting is shown, let the unit time out to set.

Balance

This sub-menu adjusts the radio's balance from left to right.

To access the BAL sub-menu, press and release the Left-Outside Thumb-Roller(2) until BAL appears on the screen. Rotate the Left-Outside Thumb-Roller(2) up or down to select the desired level. Once the desired setting is shown, let the unit time out to set.

Fader

This sub-menu adjusts the radio's fader from front to back.

To access the FADER sub-menu, press and release the Left-Outside Thumb-Roller(2) until FADER appears on the screen. Rotate the Left-Outside Thumb-Roller(2) up or down to select the desired level. Once the desired setting is shown, let the unit time out to set.

XBASS

This sub-menu enables or disables the XBAS function. XBAS boosts the low frequencies resulting in enhanced bass tones.

To access the XBAS sub-menu, press and release the Left-Outside Thumb-Roller(2) until XBAS appears on the screen. Rotate the Left-Outside Thumb-Roller(2) up or down to select the desired option. Once the desired setting is shown, let the unit time out to set.

Subwoofer *(Motor 4HD only)*

This sub-menu toggles the subwoofer RCA output on or off.

To access the SUB sub-menu, press and release the Left-Outside Thumb-Roller(2) until SUB appears on the screen. Rotate the Left-Outside Thumb-Roller(2) up or down to select the desired option. Once the desired setting is shown, let the unit time out to set.

Subwoofer Volume *(Motor 4HD only)*

This sub-menu adjusts the subwoofer volume between 0-12 and will only appear as an option when SUB ON is selected in the Subwoofer menu.

To access the SUB VOL sub-menu, press and release the Left-Outside Thumb-Roller(2) until SUB VOL appears on the screen. Rotate the Left-Outside Thumb-Roller(2) up or down to select the desired setting. Once the desired setting is shown, let the unit time out to set.

Subwoofer Frequency *(Motor 4HD only)*

This sub-menu adjusts the frequency crossover point of the subwoofer between 80Hz, 120Hz, or 160Hz.

To access the SUB sub-menu, press and release the Left-Outside Thumb-Roller(2) until SUB 120H appears on the screen. Rotate the Left-

System Settings

Outside Thumb-Roller(2) up or down to select the desired setting. Once the desired setting is shown, let the unit time out to set.

Bass Frequency

This sub-menu adjusts the bass tones' frequency crossover point between 60Hz, 80Hz, 100Hz, or 200Hz.

To access the BAS sub-menu, press and release the Left-Outside Thumb-Roller(2) until BAS 80H appears on the screen. Rotate the Left-Outside Thumb-Roller(2) up or down to select the desired setting. Once the desired setting is shown, let the unit time out to set.

Mid Frequency *(available on select models)*

This sub-menu adjusts the mid-tones' frequency crossover point between 0.5KHz, 1.0KHz, 1.5KHz, or 2.5KHz.

To access the MID sub-menu, press and release the Left-Outside Thumb-Roller(2) until MID 1.0K appears on the screen. Rotate the Left-Outside Thumb-Roller(2) up or down to select the desired setting. Once the desired setting is shown, let the unit time out to set.

Treble Frequency

This sub-menu adjusts the treble tones' frequency crossover point between 0.5KHz, 10.0KHz, 12.5KHz, 15.0KHz, or 17.5KHz.


To access the TRE sub-menu, press and release the Left-Outside Thumb-Roller(2) until TRE 10.0K appears on the screen. Rotate the Left-Outside Thumb-Roller(2) up or down to select the desired setting. Once the desired setting is shown, let the unit time out to set.

USB Inputs

USB inputs *(available on select models)* are located at the rear of the Radio Motor. The USB cables must be routed during installation to a convenient and accessible location for connecting USB devices.

NOTE: The USB Mode will not appear in the menu unless a USB device is plugged in.

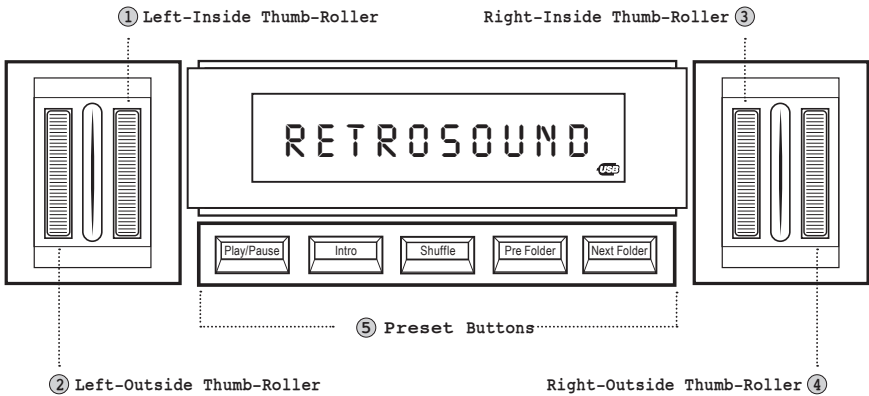
USB Device Connection

Connect your USB Flash Drive, iPod®/iPhone®, or other supported USB devices to one of the USB inputs. The radio will display USB1, USB2, or iPod (if an Apple device is plugged in) for three seconds indicating the device has been connected successfully. After connecting a USB device, the radio will display the USB icon  (or IPOD text) on the screen and automatically find your songs and begin playback.

USB Device Operation

The Preset Buttons(5) will enable you to play/pause, listen to 10 seconds of each song (*INTRO*), randomly shuffle all songs (*RDM*), and navigate folders.

USB Playback



For All Devices

- To play or pause a song, press the first Preset Button.
- To switch to the next song rotate the Right-Outside Thumb-Roller(4) up.
- To switch to the previous song rotate the Right-Outside Thumb-Roller(4) down.

For Flash Drives Only:

- To activate/deactivate intro mode , press the second Preset Button.
- To activate/deactivate shuffle mode, press the third Preset Button.
- To activate/deactivate repeat rotate the Right-Inside Thumb-Roller(3) down.
- To enter folder view rotate the Right-Inside Thumb-Roller(3) up.
- To navigate to the previous folder (when in folder view), rotate the Right-Outside Thumb-Roller(4) up.
- To navigate to the next folder (when in folder view), rotate the Right-Outside Thumb-Roller(4) down.

Bluetooth® Device Operation

Bluetooth® (available on select models)

When using a Bluetooth® device for the first time, you must enable Bluetooth® and pair the device with the unit. With your radio on and ready to pair, look for "RETROSOUND" in your Bluetooth® device list and enter "0000" if prompted for a password. (see page 11)

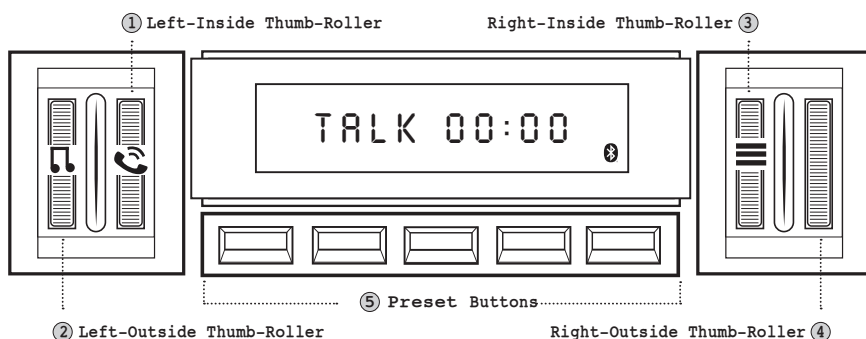
Making a Call

To make a call, dial the desired number on the paired cell phone. Once dialing is in progress; CALLING will appear on the screen. When a call is in progress, TALK will appear on the screen along with the elapsed call time (TALK 00:00). During a call, the radio music source will be muted, and the call audio will broadcast through your car's speaker system.

Answering a Call

When a call is incoming, any audio playback from the current source will either be muted or paused (depending on the source). PHONE IN will be shown on the screen along with the caller ID if it is enabled by the phone/carrier. To accept the call, rotate the Left-Inside Thumb-Roller(1) up. To end the call rotate the Left-Inside Thumb-Roller(1) up again.

Bluetooth Controls



Streaming Music

With a device paired, Rotate the Left-Inside Thumb-Roller(1) down to select BT AUDIO. Next, select your desired playback source on your device (Apple Music®, Spotify®, Pandora®, YouTube Music®, etc.) and play the music as you normally would. (NOTE: ensure the volume on your device is turned up.)

Browsing Music (not available on all devices)

Some devices will allow you to browse folders and skip songs. To skip songs, rotate the Right-Outside Thumb-Roller(4) up or down. To browse music, rotate the Right-Inside Thumb-Roller(3) up to access the browsing sub-menu, then Rotate the Right-Outside Thumb-Roller(4) up or down to cycle through the options (artist, album, song, folder) and press the Right-Outside Thumb-Roller(4) to make your selection.

HD On/Off (*HD Radio Technology is available on the Motor 4HD only.*)

This sub-menu activates HD Radio™ technology which will automatically tune to an HD Radio station when available. The HD Radio option is set to "On" by default.

To access the HD sub-menu, press and hold the Right-Inside Thumb-Roller(3) for three seconds. Rotate the Right-Outside Thumb-Roller(4) up or down until HD appears on the screen. Press and release the Right-Outside Thumb-Roller(4) to select the desired option. Once the desired setting is shown, let the unit time out to set.

HD Radio Tuning

With HD set to "On," the radio will tune to the HD Radio signal automatically if available and display an H next to the frequency. Rotate the Right-Outside Thumb-Roller(4) up or down to tune to the next or previous HD Radio channel.

HD Radio Bands

Once an HD Radio signal is found, rotating the Right-Outside Thumb-Roller(4) up will tune to HD2, HD3, and HD4 channels if available on that signal. Tuning past HD4 will move to the next available HD Radio signal.

HD Store

This sub-menu activates HD STORE which will automatically fill FM presets on all three FM bands, six presets each (*eighteen total presets*) with the strongest HD Radio channels available in your area.

To access the HD STORE sub-menu, press and hold the Right-Inside Thumb-Roller(3) for three seconds. Rotate the Right-Outside Thumb-Roller(4) up or down until HD STORE appears on the screen. Press the Right-Outside Thumb-Roller(4) to activate. This process can take up to one minute to complete.

HD Radio Display Information

When receiving an HD Radio broadcast the display will scroll the following information: Radio Station Name>Album Information>Artist Information>Title Information. NOTE: some radio stations do not provide this information.

HD Radio Service Information

To check on the HD Radio service information, Rotate the Left-Inside Thumb-Roller(1) up once. Rotate the Left-Inside Thumb-Roller(1) up again to view more information.

HD Radio Technology is manufactured under license from iBiquity Digital Corporation. U.S. and Foreign Patents. For patents see <http://dts.com/patents>. HD Radio, Artist Experience, and the HD, HD Radio, and "ARC" logos are registered trademarks or trademarks of iBiquity Digital Corporation in the United States and/or other countries.

SiriusXM® Satellite Radio (Motor 4HD only)

A SiriusXM® Connect Vehicle Tuner, antenna, and SiriusXM® subscription are required to use the satellite radio functionality. For more information on SiriusXM®, please visit www.SiriusXM.com.

Installation Check

After installing your SiriusXM® Connect Vehicle Tuner and antenna, check that your installation was successful by tuning to the preview channel. Rotate the Left-Inside Thumb-Roller(1) down until SiriusXM® appears on the screen, then Rotate the Right-Outside Thumb-Roller(4) up or down to tune to channel 1. You should be able to hear the SiriusXM® preview on this channel. If you cannot hear the preview channel, check your tuner's installation instructions to ensure your SiriusXM® Connect Vehicle Tuner is installed correctly.

SiriusXM® Activation

To activate your SiriusXM® account, you'll need the Radio ID of your tuner. To display your Radio ID, set the radio source to SiriusXM® by rotating the Left-Inside Thumb-Roller(1) down until SiriusXM® appears on the screen. Rotate the Right-Outside Thumb-Roller(4) up or down to tune to channel 0. The Radio ID will appear on the screen. You can also find your Radio ID on the bottom of the SiriusXM® Connect Vehicle Tuner and in its packaging. It's a good idea to write this number down and store it in a safe place for reference.

NOTE: The SiriusXM® Radio ID does not include the letters I, O, S, or F.

In the USA, you can activate online or by calling SiriusXM Listener care:

- Visit www.siriusxm.com/activatenow
- Call SiriusXM Listener Care at 1-866-635-2349

For Canadian Subscriptions, please contact:

- Visit www.siriusxm.ca/activate
- Call SiriusXM Customer Care at 1-888-539-7474

As part of the activation process, the SiriusXM® satellites will send an activation message to your tuner. When your radio detects that the tuner has received the activation message, your radio will display "Subscription Updated". Once subscribed, you can tune to channels in your subscription plan. Note, the activation process usually takes 10 to 15 minutes but may take up to an hour. Your radio will need to be powered on and receiving the SiriusXM® signal to receive the activation message.

SiriusXM® Tuner Operation

To access the SiriusXM® Connect Vehicle Tuner, set the radio source to SiriusXM® by rotating the Left-Inside Thumb Roller(1) down until SiriusXM® appears on the screen.

SiriusXM® Tuning

Rotate the Right-Outside Thumb-Roller(4) up or down to change channels.

SiriusXM® Preset Bands

You can store five SiriusXM® channels in three bands for a total of 15 presets. To cycle between the SiriusXM® bands, rotate the Right-Inside Thumb-Roller(3) up.

Storing/Recalling SiriusXM® Presets

There are five presets for each SiriusXM® band. To set a preset, tune to the desired station, then press and hold the appropriate Preset Button(5) to store the station into memory. To recall a SiriusXM® preset, press the appropriate Preset Button(5) in the selected radio band.

Replay™ Mode

The Replay™ mode allows you to play, pause, skip, fast-forward, and rewind.

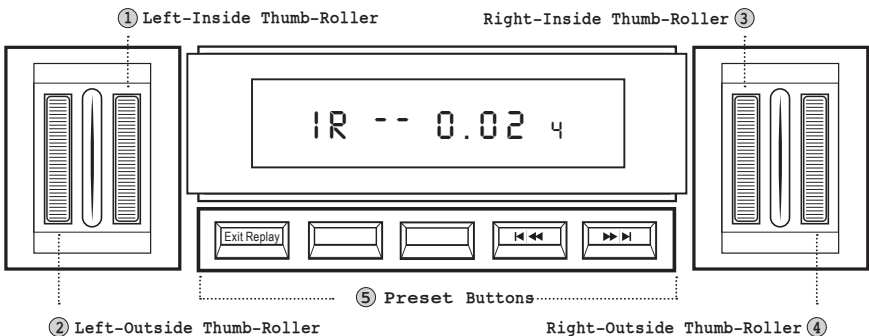
Pause/Resume

To pause SiriusXM® playback and enter Replay™ mode, press the Right-Inside Thumb-Roller(3). The screen will display IR PAUSED to indicate you are in Replay™ mode. To resume playback, press the Right-Inside Thumb-Roller(3) again. During playback in Replay™ mode, the channel audio will continue to be stored until Replay™ mode is exited.

Playback Controls in Replay™ Mode

To rewind, press and hold the fourth Preset Button. To fast forward, press and hold the fifth Preset Button. To skip to previous track/marker, press and release the fourth Preset Button. To skip to the next track/marker, press and release the fifth Preset Button. To exit Replay™ mode and return to the live satellite radio broadcast, press and release the first Preset Button.

Replay™ Controls



SiriusXM® Instructions

Display Settings

Each SiriusXM® channel will broadcast text information such as the channel name, artist, song title, and content. To cycle through the display information, rotate the Left-Inside Thumb-Roller(1) up. Each time the Thumb-Roller is rotated up, the display will change as follows: Channel>Artist>Title>Info>Category>Time>Station.

SiriusXM® Sub-Menu System

The SiriusXM® sub-menu system can only be accessed while in the SiriusXM® source mode. To access the sub-menu, rotate the Right-Inside Thumb Roller(3) down.

While in the sub-menu system, Rotate the Right-Outside Thumb-Roller(4) up or down to cycle to the next sub-menu selection.

- Category (*specific music/news/sports channels*)
- Direct (*direct tuning to a specific station*)
- Mature OFF (*toggles Mature Channel Lock on or off*)
- Mature Code (*changes the Mature Channel Lock passcode*)
- Signal (*SiriusXM® signal strength*)

To select a specific sub-menu, press the Right-Outside Thumb-Roller(4). To exit the sub-menu, Rotate the Right-Inside Thumb-Roller(3) up or down.

Category

This feature enables the ability to search for channels based upon their specific category.

To access the sub-menu system, rotate the Right-Inside Thumb-Roller(3) down. Rotate the Right-Outside Thumb-Roller(4) up or down until you see CATEGORY on the screen. Press the Right-Outside Thumb-Roller(4) to enter the category selections. Rotate the Right-Outside Thumb-Roller(4) up or down to cycle through the available options. Once the desired category is shown, press the Right-Outside Thumb-Roller(4) to accept your selection. Rotate the Right-Outside Thumb-Roller(4) up or down to cycle through every channel within the selected category.

Direct Channel Tuning

This feature enables the ability to tune to any channel by entering the channel number directly.

To access the sub-menu system, rotate the Right-Inside Thumb Roller(3) down. Rotate the Right-Outside Thumb-Roller(4) up or down until you see DIRECT on the screen. Press the Right-Outside Thumb-Roller(4) to enter

the first channel number. Rotate the Right-Outside Thumb-Roller(4) up or down to set the value of the first number, then press the Right-Outside Thumb-Roller(4) to accept and move to the next number. Rotate the Right-Outside Thumb-Roller(4) up or down to set the second number and press the Right-Outside Thumb-Roller(4) to accept and move to the next number (if needed). Press the Right-Outside Thumb-Roller to confirm the selection.

Setting the Mature Channel Lock

This feature enables the ability to limit access to SiriusXM® channels with mature content. When enabled, the Mature Channel Lock feature requires you to enter a passcode to tune to the locked channels. The default passcode is 1111.

To access the sub-menu system, rotate the Right-Inside Thumb Roller(3) down. Rotate the Right-Outside Thumb-Roller(4) up or down until you see MATURE OFF on the screen. Press and release the Right-Outside Thumb-Roller(4) to set a channel lock code. Rotate the Right-Outside Thumb-Roller(4) up or down to set the first number, then press the Right-Outside Thumb-Roller(4) to accept and move on to the next number. Repeat this process for the remaining numbers and press the Right-Outside Thumb-Roller(4) to accept the final number and turn the mature lock on.

Changing the Mature Channel Lock Passcode

The Mature Channel Lock passcode can be changed by entering the current code and setting a new one.

To access the sub-menu system, rotate the Right-Inside Thumb Roller(3) down. Rotate the Right-Outside Thumb-Roller(4) up or down until you see MATU CODE on the screen. Press the Right-Outside Thumb-Roller(4) to enter the current passcode (*default is 1111*). Rotate the Right-Outside Thumb-Roller(4) up or down to set the first number, press the Right-Outside Thumb-Roller(4) to accept, and move on to the next number. Repeat this process for the remaining numbers and press the Right-Outside Thumb-Roller(4) to accept and enter a new code. Repeat the process above to set a new code.

Signal Strength

This Sub-Menu displays the current SiriusXM® signal strength on the screen.

To access the sub-menu system, rotate the Right-Inside Thumb Roller(3) down. Rotate the Right-Outside Thumb-Roller(4) up or down until you see SIGNAL. The signal strength will be displayed on the screen.

For more information on SiriusXM®, please visit www.SiriusXM.com

SiriusXM® Troubleshooting

If your SiriusXM® Connect Vehicle Tuner does not appear to be functioning properly, and one of these advisory messages appears on the display, try some of these troubleshooting tips.

CHK TNR (*check tuner*)

This message indicates an issue with your SiriusXM® Connect Vehicle Tuner.

- Check that your tuner is securely plugged into the back of the Radio Motor.
- Check the wires between your unit and the SiriusXM® tuner for damage.
- Check the tuner to ensure that it is not damaged.

CHK ANT (*check antenna*)

This message indicates an issue with your SiriusXM® antenna connection.

- Check that your SiriusXM® antenna is plugged into the tuner and that the connection is secure.
- Check that the SiriusXM® antenna is not damaged.
- If the antenna connections are secure and the advisory message is still displayed, turn the radio off and back on to reset the advisory message.

NO SIGNAL (*busy*)

This message indicates that your SiriusXM® tuner isn't acquiring the audio or program information from the satellite. If this message does not go away after a few seconds, the satellite signal is too weak at your current location. To solve this issue:

- Make sure the antenna is mounted away from metal objects.
- Move the vehicle to a new location – especially if your vehicle is parked underground or in a parking garage.

CH UNAVL (*channel unavailable*)

This message indicates that the current channel is unavailable. This error can happen for several reasons:

- The channel may no longer be available on SiriusXM®.
- The channel may not be available with your current SiriusXM® subscription package.

CH UNSUB (*channel unsubscribed*)

The channel that you have requested is not included in your SiriusXM subscription package or the channel that you were listening to is no longer included in your SiriusXM subscription package. If you have questions about your subscription package or would like to subscribe to this channel, please contact SiriusXM.

- In the USA, visit www.siriusxm.com or call 1-866-635-2349.
- In Canada, visit www.siriusxm.ca or call 1-888-539-7474.

CH LOCKED (*mature channel locked*)

This message indicates that the Mature Channel Lock has locked the channel.

- Enter the Mature Channel Lock code.
- Tune to a channel that is not locked by the Mature Channel Lock.
- Disable the Mature Channel Lock (*see page 22 for instructions*)

Digital Audio Broadcasting (DAB/DAB+)

RetroSound Motor 1DAB, Motor 2DAB, and Motor 6 Radio Motors have a built-in DAB+ tuner that is compatible with both DAB and DAB+ digital radio broadcasts. The digital broadcast signal resists multi-path interference offering CD-quality audio with more fidelity and reduced noise compared to analog signals.

DAB+ is a high quality digital radio standard that is **NOT available in the United States**. DAB+ has been widely adopted across Australia, Europe, South Africa, Arab States, and is expanding into Asia-Pacific.

For more information on DAB+ visit www.digitalradioplus.com.au

DAB Tuner Specifications

Tuning Range 174.9mHz-239.2mHz
Antenna Terminal DAB Antenna Connector

DAB/DAB+ Input

The DAB+ input is the brass connection located at the rear of the radio body. A special antenna is required to listen to DAB and DAB+ digital audio broadcasts.

RetroSound DAB1 Antenna Adapter

This adapter turns a standard AM/FM antenna into an antenna that will receive both AM/FM stations and Digital Audio Broadcast (DAB/DAB+) stations. It has a DAB antenna output that plugs into the DAB input on the radio, as well as a standard antenna output for AM/FM stations. The DAB1 adapter can be used with all RetroSound DAB series radios or any after-market radio that has a DAB/DAB+ tuner.

DAB1 ANTENNA ADAPTER

Problem	Possible Cause	Action to Solve Problem
Radio will not turn on (no lights, no sound)	Constant +12V (yellow) wire not connected or incorrect voltage	Check all connections for proper voltage with a volt meter. Voltage range: 12-15 volts
	+12V ignition/accessory (red) wire not connected or incorrect voltage	Check +12V accessory (red) wire connection and test voltage
	Ground (black) wire not connected	Check ground connection
	Fuse on constant +12V (yellow) wire is blown	Replace blown fuse
No sound heard from unit but unit lights up	Volume turned all the way down	Increase radio volume
	Internal amp in protection mode	Check speaker leads for any grounded or shorted wires or reset system to factory defaults*
	Wrong source mode selected	Make sure the unit is in the desired source mode (<i>RADIO,AUX</i>)
Unit blows fuses	Possible short in wiring or incorrect fuse used	Make sure only fuses with correct 15 amp ratings are used and check all wiring connections for possible short
	Battery hooked up backwards	Make sure battery is properly connected

*System Reset

To restore/reset the unit to factory defaults see page 12.

Frequently Asked Questions

Do your radios work on 6 volt systems or on positive ground systems?

No. Our radios are 12 volt, negative ground only. After-market converters and inverters are available but must provide at least 10 amps of continuous output.

I'm having problems getting the radio to turn on.

RetroSound® radios require 12 volts to both power leads. The red lead (+12 volt accessory) goes to a switched power source, and the yellow to a constant +12 volt power source. Using a volt meter, check the voltage when the key is turned from “off” to “on”. If there is a significant drop in the voltage, the circuit to which you have the yellow lead attached cannot handle the additional draw of the radio. You will need to find another circuit that can handle the additional draw of the radio, or you will need to go directly to the battery.

What speaker wire do you recommend I use?

We recommend using 16 gauge wire for our speakers.

I have all 4 speakers connected to your radio and the display is lit up like it is working, but there's no sound coming out.

This usually indicates one of two things:

- Speaker wires touching each other or the vehicle chassis at some point. Check each speaker lead from radio to speaker.
- Speaker impedance below 4 ohms. Older speakers are usually not compatible with modern electronics.

My car originally came with a switch to control my automatic antenna. Can I use the RetroSound® radio's remote antenna wire to control my antenna?

No, you cannot. Your factory antenna is known as “semi-automatic.” It requires a switch to either extend or retract the antenna. You must retain this switch to control your antenna; the RetroSound® radio's power antenna wire is for more modern “fully-automatic” antennas not requiring a separate switch.

Frequently Asked Questions

The sound output is all mid-range, with very little bass and a strangled-sounding upper range. What is wrong?

One of your speaker wires is connected backwards. This is called being “out of phase.” Check to make sure positive is wired to positive and negative to negative on all your speakers.

Will cutting or bending the InfiniMount Brackets void the warranty or harm the unit?

No. The RetroSound® patented InfiniMount Bracket system has been designed specifically to be bent, cut and modified to simplify radio installation. Modifying the radio's brackets is actually encouraged to ensure proper fit.

If you have questions about modifying the brackets, contact us via email at tech@retromanufacturing.com or visit help.retromanufacturing.com.

How much should I tighten the shaft nuts when installing the brackets and mounting the radio to the dash?

DO NOT OVERTIGHTEN the shaft nuts. The shaft nuts are NOT the only means of securing the radio to the dash. There is a backstrap included which works with the shaft nuts to secure the radio to the dash. Please note that overtightening the shaft nuts could break the shafts. Retro Manufacturing, LLC will not be responsible for broken shafts due to overtightening the shaft nuts.

I have your radio with an amplifier connected, but hear a whining/ buzzing sound through the speakers when I step on the accelerator.

If you have an external amplifier installed and experience a high-pitched noise that varies with the engine's RPM, there are many possible solutions:

- Make sure the amplifier's gain controls are not turned all the way up. Amplifiers amplify everything, including noise.
- Try grounding the amplifier near where it is installed.
- Try a filter on the amplifier's 12 volt power lead. Make sure to use a filter that includes a ground wire.
- On rare occasions, noise can be introduced through the antenna lead. If disconnecting the antenna makes the noise go away, you need to replace or repair the antenna plug where it goes into the radio.

Specifications

FM

Tuning Range (<i>USA/EUR/AUS/JAP/RUS tuning</i>) wih RDS	87.5-107.9MHz
Antenna Terminal	External Antenna Connector
Usable Sensitivity.....	12.5dBf
Selectivity	75 dB @400kHz
Signal to Noise Ratio.....	62dB (<i>Stereo</i>), 67dB (<i>Mono</i>)
Harmonic Distortion @ 1 kHz	0.8% (<i>Stereo</i>), 0.5% (<i>Mono</i>)
Separation	32dB @1kHz
Frequency Response	30-16,000Hz

AM

Tuning Range (<i>USA/EUR/AUS/JAP/RUS tuning</i>).....	530-1710kHz
Antenna Terminal	External Antenna Connector

General

Dimensions (<i>Radio Face</i>).....	3.5"W x 1.5"H x 1.05"D
<i>(dimensions will vary depending on model purchased)</i>	
Dimensions (<i>Radio Motor</i>)	3.96"W x 1.98"H x 4.30"D
Power Requirements.....	10.5-14.4V
Current Consumption (<i>during operation</i>)	Max. 15A
Current Consumption (<i>car off</i>)	<3.5 mA
Output Power (<i>@14.4volts @4ohm @1% THD</i>)	
Motor 1 Series	18x4w RMS 40x4 Max
Motor 2 Series	25x4w RMS 45x4 Max
Motor 4 Series	25x4w RMS 45x4 Max
Output Impedance.....	4ohm
Low Level Output (4 channels)*	2.85 volts
EROM*	Non-Volatile Memory
AUX Inputs* (<i>aux cable length, 8"</i>).....	>300 mV / 6 kΩ
USB Inputs*	5v (USB female input)
USB Charging*	2.1A (total)

(*available on select models)

NOTE: All specifications are subject to change without notice.

Your unit comes with a manufacturer's warranty covering any defects in materials and workmanship. Retro Manufacturing, LLC (collectively referred to as "the warranter"), at its option, will either (a) repair your unit with new or refurbished parts or (b) replace it with a new or refurbished unit. The warranty period starts from the original purchase date and is valid for the length of time indicated in the chart below. The decision to repair or replace will be made by the warranter.

ITEM	WARRANTY
Motor 1A, Motor 2A, Motor 1DAB, Motor 2DAB	One (1) Year
Motor 4HD, Motor 6	Two (2) Years

During the "Parts" warranty period, there will be no charge for parts. You must mail in your unit during the warranty period at your expense. This warranty only applies to products purchased directly from Retro Manufacturing or an authorized dealer. This warranty is extended only to the original purchaser of a new product that was not sold "as is." A purchase receipt or other proof of the original purchase date is required for warranty service.

To handle a warranty issue, visit www.retromanufacturing.com/returns-center to initiate a return and receive a Return Authorization (RA) number. A RA number must accompany all returns and warranty issues. Any product received without a RA number will be refused.

LIMITED WARRANTY-LIMITS AND EXCLUSIONS

This warranty ONLY COVERS failures due to defects in materials and workmanship and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages that occurred during shipment, failures which are caused by products not supplied by the warranter, failures that result from accident, misuse, abuse, neglect, bug infestation, mishandling, misapplication, alteration, faulty installation, set-up adjustment, maladjustment of consumer control, improper maintenance, improper antenna, inadequate signal reception or pickup, power line surge, improper voltage supply, lightning, modification, commercial use (such as use in hotels, offices, restaurants, or other business uses) or rental use of the product, or service by anyone other than Retro Manufacturing, LLC, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER LIMITED WARRANTY. THE WARRANTER IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS UNIT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, the cost of having someone remove or re-install an installed unit if applicable, travel to and from the servicer, and loss of media, data, or other memory contents. The items listed are not exclusive but are for illustration only.) ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. If a problem with this unit develops during or after the warranty period, you may contact your dealer or Retro Manufacturing, LLC.

Declaration of Conformity: Motor 1DAB, Motor 2DAB, Motor 6



Manufacturer:
Retro Manufacturing, LLC
7470 Commercial Way
Henderson, NV 89011 U.S.A.
www.retromanufacturing.com

For more information visit www.retromanufacturing.com/pages/declaration-of-conformity



7470 Commercial Way | Henderson, NV 89011
help.retromanufacturing.com

MODERN SOUND FOR YOUR CLASSIC



Published: 12/29/22 | © 2022 Retro Manufacturing, LLC