



— **User Manual** —

*true* <sup>RATING™</sup>

**25 Watts x4**  
BUILT-IN AMPLIFIER

**HD Radio®** **SiriusXM READY**



AUX-In



AM/FM  
SELECTABLE  
TUNER



USB x2



RADIO APP  
COMPATIBLE



MODULAR  
MOUNTING



RCA  
Outputs  
x2



NON-VOLATILE  
MEMORY



ADJUSTABLE  
COLOR  
DISPLAY

## PRECAUTIONS

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### PLEASE OBSERVE THESE PRECAUTIONS WHEN OPERATING THIS UNIT:

This user's manual does not cover the installation process. Please review the Installation and Assembly Manual included in your Radio Motor box 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](http://www.retromanufacturing.com)**



### NEW RETRO SOUND RADIO APP

The RetroSound Radio App provides wireless control of select radio functions when used with a RetroSound radio equipped with the Motor 4HD-1. Connecting via Bluetooth®, the app allows convenient adjustment of audio settings and source functions directly from a compatible smartphone.

This feature is exclusive to the Motor HD-1 & Motor 4DAB and is not supported on earlier RetroSound motor versions.

## General Features

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### **Model: Motor 4HD-1**

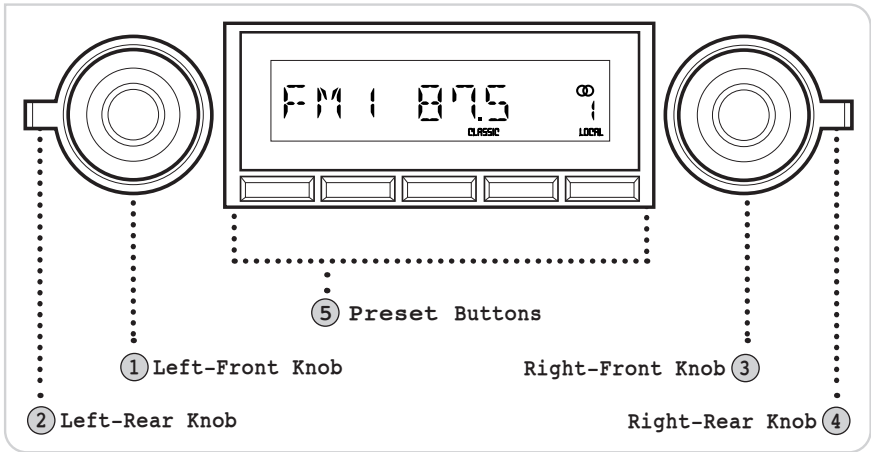
- AM/FM tuner with 30 presets and RDS (Radio Data System)
- HD Radio® receiver (HD Radio® broadcasts are not available in all regions)
- Selectable international tuner frequencies
- Built-in MOSFET amplifier: 25 watts RMS / 45 watts Max x4 channels
- Patented InfiniMount Bracket System for maximum installation flexibility
- Available with period-correct knobs and bezel for your vehicle
- Separate power antenna and amplifier turn-on leads
- 3 EQ presets plus user-controlled bass, mid-range, treble, fader, and balance adjustments
- Selectable 32,000 color LCD illumination with user presets
- Multi-channel pre-amp outputs (front, rear, subwoofer)
- 2 rear-mounted USB ports play MP3, WMA, and FLAC files
- Auxiliary input for portable devices
- Built-in Bluetooth® for hands-free calling and audio streaming
- The only SiriusXM-Ready® classic car radio (SiriusXM® Connect vehicle tuner and subscription required)
- RetroSound Radio App support enables wireless radio control via Bluetooth® (Motor 4HD-1 exclusive)
- Non-volatile memory
- 2 year manufacturer warranty (see page 28)

# Radio Operation Instructions

## FRONT PANEL CONTROLS

These instructions are for all Radio Faces with **2 control shafts and push-buttons** including: Liberty, Dallas, Daytona, Denver, Detroit, Europa, Monza, Huntington, Monterey, Redondo-RS, RetroRadio, Wonder Bar I, and Wonder Bar III.

**For radios with alternate control layouts please look up models at: <https://help.retromanufacturing.com/article-categories/user-manuals/> for proper guide.**



## IMPORTANT: Control Setup & Reset

By default, RetroSound® Radio Motors are configured to function with the standard Radio Faces listed above. Some Radio Faces, like the Redondo-RT, require a different control mode.

If you have mistakenly changed your Radio Motor to use a Radio Face that you do not have, follow the steps below to reboot and change control modes.

- Turn off the ignition and wait 30 seconds.
- Turn the ignition on.
- Once the radio displays **RETRO** on the screen, press and hold the radio's power button for approximately 15 seconds to reboot and enter **SEL PANEL** mode. The screen will display **SEL PANEL** when successful.
- Release the power button.
- Press and release the power button repeatedly until your desired Panel/Display type is shown on the screen. The selected display type will flash five times and then the screen will turn off.
- Press the power button once more to turn the radio back on. The radio is now in the selected Panel/Display mode chosen and is ready to use.

# Radio Operation Instructions

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## POWER ON/OFF

Press the Left-Front Knob(1) to turn the unit on. **RETRO** will appear on the screen. Press and hold the Left-Front Knob(1) to turn the unit off. **GOODBYE** will appear on the screen to confirm that it has turned off.

## VOLUME

Rotate the Left-Front Knob(1) to adjust the volume between 0-46.

## MODE

Rotate the Left-Rear Knob(2) clockwise to select from available listening sources\*: RADIO(AM/FM/), SIRIUSXM®, AUX, USB 1, USB 2, or BT Audio.

**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, portable CD player, or portable satellite radio receiver. The USB inputs allow you to 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-Front Knob(3) to tune to the next or previous AM/FM frequency.

**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-Rear Knob(4) counter-clockwise to cycle through the five radio bands (two AM and three FM).

## STORING RADIO PRESETS

There are six radio presets for each radio band. For presets one through five, 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, rotate the Right-Rear Knob(4) clockwise and hold for 3 seconds to store.

## RECALLING RADIO PRESETS

To recall radio presets, press the appropriate Preset Button(5) in the selected radio band. To recall preset six, rotate the Right-Rear Knob(4) clockwise and release it.

## MUTE/PAUSE

Press the Right-Front Knob(3) to mute/unmute or pause/play depending on the source mode.

# System Settings

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## SYSTEM SETTINGS

The System Settings sub-menu enables access to the numerous additional features of your RetroSound® radio. Press and hold the Right-Front Knob(3) for three seconds to access the sub-menu. Then rotate the Right-Front Knob(3) to cycle through the available sub-menu options. Once in a specific sub-menu, press and release the Right-Front Knob(3) 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-Front Knob(3) for three seconds, **AUTO SEEK** will be displayed. Press and release the Right-Front Knob(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-Front Knob(3) for three seconds. Rotate the Right-Front Knob(3) until **A STORE** appears on the screen. Press the Right-Front Knob(3) to activate. This process can take up to one minute to complete. Once completed the radio will resume play.

## 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-Front Knob(3) for three seconds. Rotate the Right-Front Knob(3) until **LOCAL/DISTANT** appears on the screen. Press and release the Right-Front Knob(3) 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-Front Knob(3) for three seconds. Rotate the Right-Front Knob(3) until **CLK** appears on the screen, then press the Right-Front Knob(3) to select. To adjust the hours, rotate the Right-Front Knob(3) clockwise or counter-clockwise. Adjusting past 12 will change between AM and PM. Once the hour is set, press the Right-Front Knob(3) to select the minutes. Rotate the Right-Front Knob(3) to adjust the minutes. Once the desired time is shown let the unit time out to set.

# System Settings

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## 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-Front Knob(3) for three seconds. Rotate the Right-Front Knob(3) until **CLK 12** appears on the screen. Press and release the Right-Front Knob(3) 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-Front Knob(3) for three seconds. Rotate the Right-Front Knob(3) until **DISP FREQ** appears on the screen. Press and release the Right-Front Knob(3) 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-Front Knob(3) for three seconds. Rotate the Right-Front Knob(3) until **CLK ON** appears on the screen. Press and release the Right-Front Knob(3) 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-Front Knob(3) for three seconds. Rotate the Right-Front Knob(3) until **BEEP** appears on the screen. Press and release the Right-Front Knob(3) to select the desired option. Once the desired setting is shown, let the unit time out to set.

## DISPLAY COLOR

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-Front Knob(3) for three seconds. Rotate the Right-Front Knob(3) until **SCAN** appears on the screen. Press and release the Right-Front Knob(3) 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.**

## System Settings

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### DISPLAY COLOR (CONTINUED)

To create a custom color, press and hold the Right-Front Knob(3) for three seconds to access the sub-menu system. Rotate the Right-Front Knob(3) until **SCAN** (or *current color*) appears on the screen. Press and release the Right-Front Knob(3) until you see **USER**. Rotate the Right-Front Knob(3) clockwise to access the RGB settings and press the Right-Front Knob(3) to select. Rotate the Right-Front Knob(3) to set a color value for RED, then press the Right-Front Knob(3) to move to the next color. Repeat the steps to adjust the values for each color. Once the desired color is set, press the Right-Front Knob(3) to accept the settings and let the unit time out to set.

### 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-Front Knob(3) for three seconds. Rotate the Right-Front Knob(3) until **DIMMER** appears on the screen. Press and release the Right-Front Knob(3) 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-Front Knob(3) for three seconds. Rotate the Right-Front Knob(3) until **RDS** appears on the screen. Press and release the Right-Front Knob(3) to toggle **RDS ON** or **RDS OFF**. Once the desired setting is shown, let the unit time out to set.

### PROGRAM TYPE

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-Front Knob(3) for three seconds. Rotate the Right-Front Knob(3) until **PTY** appears on the screen. Press and release the Right-Front Knob(3) to enter the list of program types. Rotate the Right-Front Knob(3) to select between the available options. Once the desired program type is shown, press the Right-Front Knob(3) to accept. **PTY SEEK** will appear on the screen, indicating that the radio is searching the FM band for the next available station with your selected program type. If none are found, the radio will revert to the last station selected.

# System Settings

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## ALTERNATIVE FREQUENCY

This sub-menu enables the radio to automatically search for another frequency that provides the same station when the signal gets weak.

To access the **RF** sub-menu, press and hold the Right-Front Knob(3) for three seconds. Rotate the Right-Front Knob(3) until **RF ON/OFF** appears on the screen. Press and release the Right-Front Knob(3) to select the desired option. Once the desired setting is shown, let the unit time out to set.

## TRAFFIC ANNOUNCEMENTS

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.

To access the **TR** sub-menu, press and hold the Right-Front Knob(3) for three seconds. Rotate the Right-Front Knob(3) until **TR ON/OFF** appears on the screen. Press and release the Right-Front Knob(3) 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 supports clock time, your radio will synchronize its clock with the radio station's clock.

To access the **CT** sub-menu, press and hold the Right-Front Knob(3) for three seconds. Rotate the Right-Front Knob(3) until **CT ON/OFF** appears on the screen. Press and release the Right-Front Knob(3) to select the desired option. Once the desired setting is shown, let the unit time out to set.

## BLUETOOTH® ON/OFF

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-Front Knob(3) for three seconds. Rotate the Right-Front Knob(3) until **BT ON/OFF** appears on the screen. Press and release the Right-Front Knob(3) to select the desired option. Once the desired setting is shown, let the unit time out to set.

## System Settings

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### BLUETOOTH® CONNECT/DISCONNECT (BT MUST BE "ON")

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

To access the **BT CONNEX/DISCOM** sub-menu, press and hold the Right-Front Knob(3) for three seconds. Rotate the Right-Front Knob(3) until **BT CONNEX/DISCOM** appears on the screen. To connect a device, press and release the Right-Front Knob(3) to select **BT CONNEX**, then search for "RETROSOUND" in your phone's Bluetooth® device list. Enter password "0000" if prompted. To disconnect a device, press and release the Right-Front Knob(3) to select **BT DISCOM**, then let the unit time out to disconnect the current device.

### 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-Front Knob(3) for three seconds. Rotate the Right-Front Knob(3) until **AREA USA** appears on the screen. Press and release the Right-Front Knob(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 7).

To access the **VOL** sub-menu, press and hold the Right-Front Knob(3) for three seconds. Rotate the Right-Front Knob(3) until **VOL** appears on the screen. Press and release the Right-Front Knob(3) to select the desired option. If **VOL ADJUS** is selected, rotate the Right-Front Knob(3) clockwise (**AD VAL** is shown) and press the Right-Front Knob(3) to accept. Rotate the Right-Front Knob(3) again to adjust the level between 0-46. Once the desired setting is shown, let the unit time out to set.

### SYSTEM RESET

This sub-menu resets the unit to factory settings.

To access the **RESET** sub-menu, press and hold the Right-Front Knob(3) for three seconds. Rotate the Right-Front Knob(3) until **RESET** appears on the screen. Press and release the Right-Front Knob(3) to reset the unit to factory settings. The unit will reset and turn off.

# System Settings

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## SYSTEM RESCUE

If you have mistakenly changed your Radio Motor to use a Radio Face/Panel that you do not have, use the steps below to reboot the radio to **SEL PANEL** mode.

Turn the ignition off and wait 30 seconds. Turn the ignition on; once the radio boots up and **RETRO** scrolls across the screen, press and hold the radio's power button for approximately 15 seconds to reboot the radio into **SEL PANEL** mode. See the list below for the appropriate power button for your radio type. Once **SEL PANEL** is displayed on the screen, release the Power Button, then press and release the button until your panel/display type is displayed. The Display will Flash your selection five times and will turn off.

### Radio Power Buttons:

- Standard Knobs (*shafts*): Press and hold the left front knob.
- Thumb Rollers: Press and hold left-inside thumb roller.
- Grand Prix: Press and hold the ON/Off button.

## SOFTWARE INFO

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

To access the sub-menu, press and hold the Right-Front Knob(3) for three seconds. Rotate the Right-Front Knob(3) until the software version appears on the screen (*there are no adjustable settings in this menu*).

## 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-Front Knob(1) once, **DSP OFF** will be displayed. Rotate the Left-Front Knob(1) clockwise 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.**

# System Settings

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## BASS

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

To access the **BASS** sub-menu, press and release the Left-Front Knob(1) until **BASS** appears on the screen. Rotate the Left-Front Knob(1) clockwise or counter-clockwise 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-Front Knob(1) until **MID** appears on the screen. Rotate the Left-Front Knob(1) clockwise or counter-clockwise 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-Front Knob(1) until **TREBLE** appears on the screen. Rotate the Left-Front Knob(1) clockwise or counter-clockwise 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-Front Knob(1) until **BAL** appears on the screen. Rotate the Left-Front Knob(1) clockwise or counter-clockwise 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-Front Knob(1) until **FADER** appears on the screen. Rotate the Left-Front Knob(1) clockwise or counter-clockwise 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 **XBASS** function. XBASS boosts the low frequencies resulting in enhanced bass tones.

To access the **XBASS** sub-menu, press and release the Left-Front Knob(1) until **XBASS** appears on the screen. Rotate the Left-Front Knob(1) clockwise or counter-clockwise to select the desired option. Once the desired setting is shown, let the unit time out to set.

# System Settings

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## SUBWOOFER

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

To access the **SUB** sub-menu, press and release the Left-Front Knob(1) until **SUB** appears on the screen. Rotate the Left-Front Knob(1) clockwise or counter-clockwise to select the desired option. Once the desired setting is shown, let the unit time out to set.

## SUBWOOFER VOLUME

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-Front Knob(1) until **SUB VOL** appears on the screen. Rotate the Left-Front Knob(1) clockwise or counter-clockwise to select the desired setting. Once the desired setting is shown, let the unit time out to set.

## SUBWOOFER FREQUENCY

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-Front Knob(1) until **SUB 120H** appears on the screen. Rotate the Left-Front Knob(1) clockwise or counter-clockwise 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-Front Knob(1) until **BAS 80H** appears on the screen. Rotate the Left-Front Knob(1) clockwise or counter-clockwise to select the desired setting. Once the desired setting is shown, let the unit time out to set.

## MID FREQUENCY

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-Front Knob(1) until **MID 1.0K** appears on the screen. Rotate the Left-Front Knob(1) clockwise or counter-clockwise to select the desired setting. Once the desired setting is shown, let the unit time out to set.

## System Settings

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### 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-Front Knob(1) until **TRE 10.0K** appears on the screen. Rotate the Left-Front Knob(1) clockwise or counter-clockwise to select the desired setting. Once the desired setting is shown, let the unit time out to set.

## RetroSound Radio Control App

### FEATURE OVERVIEW & USER INSTRUCTIONS

The RetroSound Radio App extends control of your RetroSound radio when equipped with the Motor 4HD-1. Using a compatible smartphone, the app allows wireless adjustment of key radio functions through Bluetooth®, providing convenient access without interacting directly with the radio face.

***NOTE: This feature is exclusive to the Motor 4HD-1 and is not supported on earlier RetroSound motors.***

### INITIAL SETUP & PAIRING

1. Ensure the radio is powered on and Bluetooth® is enabled.
2. On your smartphone, download and install the RetroSound Radio App from the appropriate app store.
3. Enable Bluetooth® on your smartphone.
4. Open the RetroSound Radio App.
5. Select your RetroSound radio from the list of available Bluetooth® devices.
6. Confirm pairing when prompted.

Once paired, the app will automatically reconnect when the radio and smartphone are within range and Bluetooth® is enabled.

### USING THE APP

- Open the RetroSound Radio App while the radio is powered on.
- Use on-screen controls to adjust audio settings or change sources.
- Changes made in the app are applied in real time to the radio.

# USB Device Instructions

## USB INPUTS

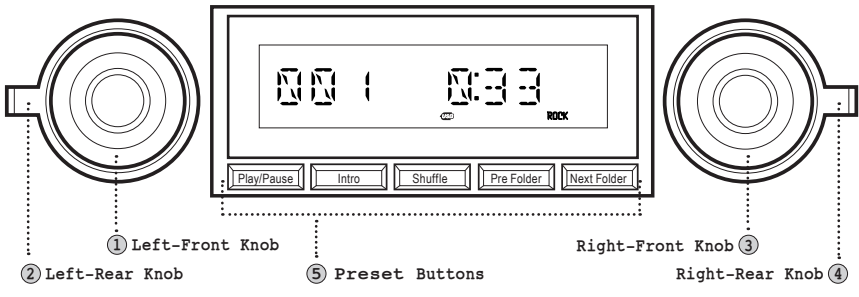
USB inputs are located at the rear of the Radio Motor. The USB cables must be routed during installation to a convenient and accessible location for connecting USB devices.

**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 or other supported USB devices to one of the USB inputs. The radio will display **USB** for three seconds indicating the device has been connected successfully. After connecting a USB device, the radio will display the USB icon **USB** on the screen and automatically find your songs and begin playback.

### USB 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.

- To play or pause a song, press the First Preset Button.
- To activate/deactivate intro mode, press the Second Preset Button.
- To activate/deactivate shuffle mode, press the Third Preset Button.
- To navigate to the previous folder, press the Fourth Preset Button.
- To navigate to the next folder, press the Fifth Preset Button.
- To switch to the next song, rotate the Right-Front Knob(3) clockwise.
- To switch to the previous song, rotate the Right-Front Knob(3) counterclockwise.
- To activate/deactivate repeat, rotate the Right-Rear Knob(4) clockwise.

# Bluetooth® Device Instructions

## BLUETOOTH®

When using a Bluetooth® device for the first time, you must enable Bluetooth® and pair the device with the unit (see page 10). Be sure your phone is connected for both calls and audio and that your microphone is enabled.

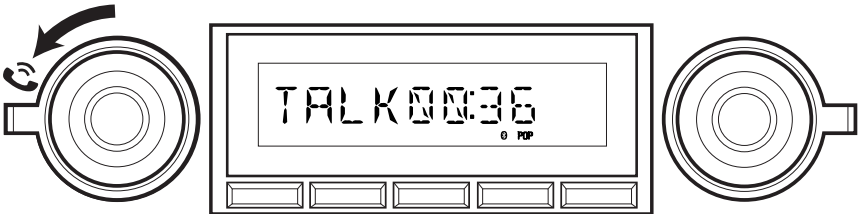
## MAKING A CALL

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-Rear Knob(2) counterclockwise. To end the call, rotate the Left-Rear Knob(2) again counterclockwise.

### Bluetooth Controls



1 Left-Front Knob

2 Left-Rear Knob

Right-Front Knob 3

Right-Rear Knob 4

## STREAMING MUSIC

With a device paired, rotate the Left-Rear Knob(2) clockwise 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.

## BROWSING MUSIC

Some devices will allow you to browse folders and skip songs using the Right-Front Knob(3) and the Right-Rear Knob(4). To skip songs, rotate the Right-Front Knob(3). To browse music, rotate the Right-Rear Knob(4) counterclockwise to access the browsing sub-menu, then rotate the Right-Front Knob(3) to cycle through the options (*artist, album, song, folder*) and press the Right-Front Knob(3) to make your selection.

# HD Radio® Instructions



## HD ON/OFF

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-Front Knob(3) for three seconds. Rotate the Right-Front Knob(3) until **HD** appears on the screen. Press and release the Right-Front Knob(3) 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-Front Knob(3) to tune to the next or previous HD Radio channel.

## HD RADIO BANDS

Once an HD Radio signal is found, tuning up will take you to HD2, HD3, and HD4 channels if available on that signal. Turning 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® stations available in your area.

To access the **HD STORE** sub-menu, press and hold the Right-Front Knob(3) for three seconds. Rotate the Right-Front Knob(3) until **HD STORE** appears on the screen. Press the Right-Front Knob(3) 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 show the following information when available: Radio Station Name>Album Information>Artist Information>Title Information.

## HD RADIO SERVICE INFORMATION

To Check on the HD Radio service information, Rotate the Left-Rear Knob(2) counter clockwise. Rotate the Left-Rear Knob(2) counter clockwise once more to view more information.

HD Radio Technology 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® Instructions

**SiriusXM READY**

## SIRIUSXM® SATELLITE RADIO

A SiriusXM® Connect Vehicle Tuner, antenna, and SiriusXM® subscription are required to use the satellite radio functionality. SiriusXM and all related marks and logos are trademarks of Sirius XM Radio, Inc. All rights reserved.

## 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-Rear Knob(2) clockwise until **SIRIUSXM®** appears on the screen, then rotate the Right-Front Knob(3) 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-Rear Knob(2) clockwise until **SIRIUSXM®** appears on the screen. Rotate the Right-Front Knob(3) 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](http://www.siriusxm.com/activatenow)
- Call SiriusXM Listener Care at 1-866-635-2349

For Canadian Subscriptions, please contact:

- Visit [www.siriusxm.ca/activate](http://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-Rear Knob(2) clockwise until SiriusXM® appears on the screen.

# SiriusXM® Instructions

## SIRIUSXM® TUNING

Rotate the Right-Front Knob(3) to change channels up or down.

## 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-Rear Knob(4) counter-clockwise.

## 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.

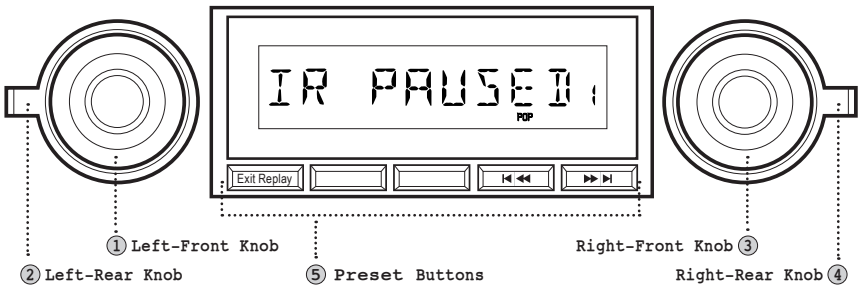
## PAUSE/RESUME

To pause SiriusXM® playback and enter Replay™ mode, press the Right-Front Knob(3). The screen will display **IR PAUSED** to indicate you are in Replay™ mode. To resume playback, press the Right-Front Knob(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

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## 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-Rear Knob(2) counter-clockwise. Each time the knob is rotated, 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-Rear Knob(4) clockwise once.

While in the sub-menu system, rotate the Right-Front Knob(3) clockwise 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-Front Knob(3). To exit the sub-menu, rotate the Right-Rear Knob(4) clockwise.

## CATEGORY

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

To access the sub-menu system, rotate the Right-Rear Knob(4) clockwise once. Rotate the Right-Front Knob(3) clockwise until you see **CATEGORY** on the screen. Press the Right-Front Knob(3) to enter the category selections. Rotate the Right-Front Knob(3) to cycle through the available options. Once the desired category is shown, press the Right-Front Knob(3) to accept your selection. Rotating the Right-Front Knob(3) will now 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-Rear Knob(4) clockwise once. Rotate the Right-Front Knob(3) clockwise until you see **DIRECT** on the screen. Press the Right-Front Knob(3) to enter the first channel number. Rotate the Right-Front Knob(3) to set the value of the first number, then press the Right-Front Knob(3) to accept and move to the next number. Rotate the Right-Front Knob(3) once more to set the second number and press the Right-Front Knob(3) to confirm the selection.

# SiriusXM® Instructions

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## 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-Rear Knob(4) once. Rotate the Right-Front Knob(3) clockwise until you see **MATURE OFF** on the screen. Press and release the Right-Front Knob(3) to set a channel lock code. Rotate the Right-Front Knob(3) to set the first number, then press the Right-Front Knob(3) to accept and move on to the next number. Repeat this process for the remaining numbers and press the Right-Front Knob(3) 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-Rear Knob(4) once. Rotate the Right-Front Knob(3) until you see **MATU CODE** on the screen. Press the Right-Front Knob(3) to enter the current passcode (*default is 1111*). Rotate the Right-Front Knob(3) to set the first number, press the Right-Front Knob(3) to accept, and move on to the next number. Repeat this process for the remaining numbers and press the Right-Front Knob(3) 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-Rear Knob(4) once. Rotate the Right-Front Knob(3) clockwise until you see **SIGNAL**. The signal strength will be displayed on the screen.

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.

# SiriusXM® Troubleshooting

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## CHK TNR *(check tuner)*

The **CHK TNR** 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)*

The **CHK ANT** 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)*

The **NO SIGNAL** 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)*

The **CH UNAVL** 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.

## SiriusXM® Troubleshooting

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- **CH UNSUB** (*channel unsubscribed*)

The **CH UNSUB** message indicates that 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](http://www.siriusxm.com) or call 1-866-635-2349.
- In Canada, visit [www.siriusxm.ca](http://www.siriusxm.ca) or call 1-877-438-9677.

### **CH LOCKED** (*mature channel locked*)

The **CH LOCKED** 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).

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**For more information on SiriusXM®, please visit [www.SiriusXM.com](http://www.SiriusXM.com)**

## Troubleshooting

Problem	Possible Cause	Action to Solve Problem
<b>Radio will not turn on (no lights, no sound)</b>	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
<b>No sound heard from unit but unit lights up</b>	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> )
<b>Unit blows fuses</b>	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 11.

## **Frequently Asked Questions**

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### **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.

### **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.

## **Frequently Asked Questions**

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### **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](mailto:tech@retromanufacturing.com) or visit [help.retromanufacturing.com](http://help.retromanufacturing.com).

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

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

### **I have my 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

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## FM

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

## AM

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

## General

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

**NOTE: All specifications are subject to change without notice.**

# Warranty

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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 4HD-1	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 go to [www.retromanufacturing.com/returns-center](http://www.retromanufacturing.com/returns-center) and fill out the Returns Form for 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.





**Retro<sup>®</sup>**  
**MANUFACTURING**

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[help.retromanufacturing.com](http://help.retromanufacturing.com)

**MODERN SOUND FOR YOUR CLASSIC**

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