

RetroSound[®]

Model One B/C Owner's & Installation Guide



Model One AM / FM Radio w/ USB/SD MP3 Playback
and Infinimount Shaft/Bracket System

Copyright © 2011 Retro Manufacturing, LLC
No text, illustrations, or format of this
manual in printed or electronic form
may be copied without written permission
from Retro Manufacturing, LLC or any of its subsidiaries.
All Rights Reserved.

Version 3.2
June 2011

Welcome!

Thank you for your purchase of the third generation of our Retrosound Model One Radio! We hope it will provide you with years of enjoyment. Below are some features of this unit:

- LCD Display w/ enhanced viewing angle & daylight compatible
- LCD Display shows Mp3/WMA track names
- AM/FM PLL tuner w/ 30 presets & RDS
- 50W x 4 RMS 100W X 4 MAX POWER (Integrated amplifier)
- 2 pair RCA pre-amp outputs to add external amplifiers
- Remote Mountable SD/USB/Aux reader for Mp3/WMA playback
- Patent Pending INFINIMOUNT adjustable shaft & bracket system
- Front and rear aux inputs; plug in any MP3 player or other portable device, (cell phone, etc)
- RF Remote control for hidden applications
- Adjustable faceplate angle; allows mounting of faceplate display to virtually any dash

Warning

This equipment has been tested and found to comply with the limits for a Class B device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and, if not installed and used in accordance with instructions, may cause harmful interference with radio communications. However, there is no guarantee that radio interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to consult the dealer or an experienced radio/TV technician for help. You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Precautions

- Avoid installing the unit where it would be subject to high temperatures such as in direct sunlight or a hot air stream from the heater or where it would be subject to dust, dirt, or excessive vibration.
- Parking your car in direct sunlight will result in a temperature rise. Do not turn on the unit if the temperature inside the car is very high. Always cool down the unit before usage.
- If the unit does not turn on, check the connections first. Then, check whether the fuse in your vehicle's fuse box is blown and check the fuse at the unit's wiring harness.
- Carefully read this manual before using the unit. If you encounter any problems that are not covered in this manual, please consult the dealer where you purchased the unit or the dealer nearest to you. You may also email us at: support@retrosoundusa.com

Table of Contents

	<u>Page Number</u>
Welcome, Warning & Precautions.....	1
Table of Contents.....	2
Installation & Use Warnings.....	3
Location of Controls, Remote, Connectors, etc.....	4-8
What's in the Box.....	9
Preparing to Install Your Unit.....	10-16
Model One Specifications & Dimensions.....	17
Using Your Unit.....	18-26
Setting the Clock.....	18
Turning the Unit On/Off.....	18
Volume Adjustment.....	18
Selecting Your Listening Source.....	18
Adjusting the Sound Properties.....	18
Special Modes of Operation/Sub Menu.....	19-21
About RDS/ Using RDS functions.....	22-23
Selected Source Mode: Radio.....	24
Selected Source Mode: USB.....	25-26
Selected Source Mode: Auxiliary Input.....	27
Limited Warranty.....	28

Installation & Use Warnings

Observe the following warnings when using this unit.

❑The driver should neither watch the display nor operate the system while driving.

Watching the display or operating the system will distract the driver from driving safely and can cause accidents. Always stop the vehicle in a safe location and use the parking brake before watching the display or operating the system.

❑Use the proper power supply.

This product is designed for operation with a negative grounded 12 V DC battery system. Never operate this product with other battery systems, especially a 24 V DC battery system.

❑Keep batteries and insulation film out of reach of infants.

Batteries and insulation film can be ingested, so keep them out of the reach of infants. If an infant ingests a battery or insulation film, please seek immediate medical.

❑Protect the radio.

Do not insert any foreign objects into the slot of this unit.

❑Do not disassemble or modify the unit.

Do not disassemble, modify the unit or attempt to repair the product yourself. If the product needs to be repaired, consult your dealer or Retro Manufacturing directly.

❑Do not use the unit when it is out of order.

If the unit is out of order (no power, no sound) or in an abnormal state (has foreign objects in it, is exposed to water, is smoking, or smells), turn it off immediately and consult your dealer.

❑The remote control unit should be loose in the car.

If the remote control unit is loose in the car, it could fall on the floor while driving, get wedged under the brake pedal, and lead to a traffic accident.

❑Refer fuse replacement to qualified service personnel.

When the fuse blows out, eliminate the cause and have it replaced with the fuse prescribed for this unit by a qualified service technician. Incorrect replacement of the fuse may lead to smoke, fire, and damage to the product.

Observe the following cautions when using this unit.

❑Keep the sound volume at an appropriate level.

Keep the volume level low enough to be aware of road and traffic conditions while driving.

❑Do not insert or allow your hand or fingers to be caught in the unit.

To prevent injury, do not get your hand or fingers caught in moving parts or in the disc slot. Especially keep infants from doing so.

Observe the following cautions when installing.

Refer wiring and installation to qualified service personnel.

Installation of this unit requires special skills and experience. For maximum safety, have it installed by your dealer. Retro Manufacturing is not liable for any problems resulting from your own installation of the unit. Please be sure to follow our instructions carefully before attempting installation.

Follow the instructions to install and wire the product.

Not following the instructions to properly install and wire the product could cause an accident or fire.

Take care not to damage the leads.

When wiring take care not to damage the leads. Prevent them from getting caught in the vehicle chassis, screws, and moving parts such as seat rails. Do not scratch, pull, bend or twist the leads. Do not run them near heat sources or place heavy objects on them. If leads must be routed around sharp metal edges, protect the leads by winding them with vinyl tape or similar protection.

Use the designated parts and tools for installation.

Use the supplied or designated parts and appropriate tools to install the product. The use of parts other than those supplied or designated may result in internal damage to the unit. Faulty installation may lead to an accident, a malfunction or fire.

❑Disconnect the lead from the negative (-) battery terminal before installation.

Wiring and installation with the negative (-) battery terminal connected may cause electrical shock and injury due to a short circuit.

Some cars equipped with the electrical safety system have specific procedures for battery terminal disconnection. **FAILURE TO FOLLOW THIS PROCEDURE MAY LEAD TO THE UNINTENDED ACTIVATION OF THE ELECTRICAL SAFETY SYSTEM RESULTING IN DAMAGE TO THE VEHICLE AND PERSONAL INJURY OR DEATH.**

❑Never use safety-related components for installation, grounding, and other such functions.

Do not use safety-related vehicle components (fuel tank, brake, suspension, steering wheel, pedals, airbag, etc.) for wiring or fixing the product or its accessories.

❑Installing the product on the air bag cover or in a location where it interferes with airbag operation is prohibited.

❑In the case of installation to an airbag-equipped car, confirm warnings and cautions of the vehicle manufacturer before installation.

❑Check for piping, gasoline tank, electric wiring, and other items before installing the product.

If you need to open a hole in the vehicle chassis to attach or wire the product, first check where the wire harness, gasoline tank, and electric wiring are located. Then open the hole from outside if possible.

❑Never install the product in a location where it interferes with your field of vision.

❑Never have the power cord branched to supply other equipment with power.

❑After installation and wiring, you should check the normal operation of other electrical equipment.

The continuation of their use in abnormal conditions may cause fire, electrical shock or a traffic accident.

❑Make sure the leads do not interfere with driving or getting in and out of the vehicle.

❑Insulate all exposed wires to prevent short circuiting.

❑This unit is designed for use exclusively in automobiles.

❑Do not operate the unit for a prolonged period with the engine turned off.

Operating the audio system for a long period of time with the engine turned off will drain the battery.

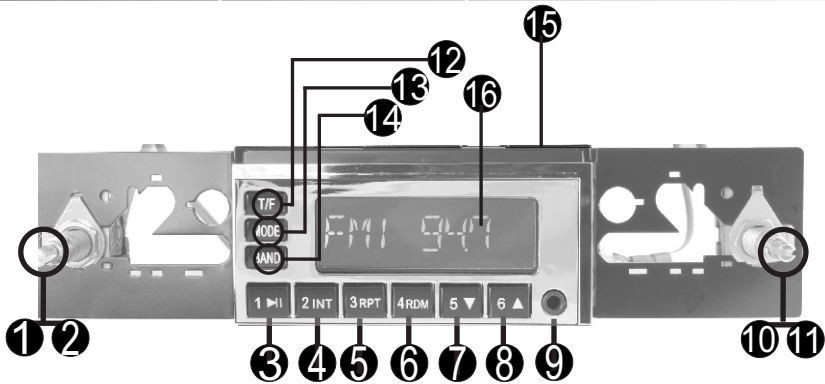
❑Do not expose the unit to direct sunlight or excessive heat.

Otherwise these will raise the interior temperature of the unit, and it may lead to smoke, fire, or other damage to the unit.

❑Do not use the product where it is exposed to water, moisture, or dust.

Exposure of the unit to water, moisture, or dust may lead to smoke, fire, or other damage to the unit. Make especially sure that the unit does not get wet in car washes or on rainy days.

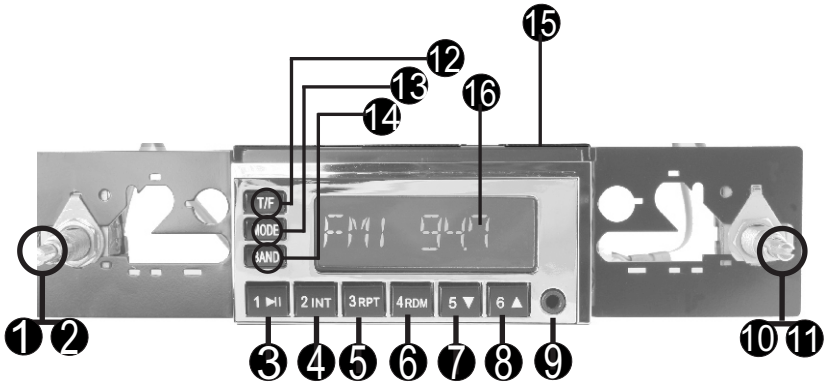
Location of Controls (Quick Start Guide)



Please review this section for quick reference, as it contains information on the location of controls and basic operations. For specific details on the particular operation, please refer to the table of contents.

- 1** POWER on/off: Press the left center knob to turn the unit on. Press and hold the left center knob for 2 seconds to turn the unit off. Turning the center left shaft controls the volume attenuation up and down. Note: Volume range is 0 - 50(Min/Max).
- 2** Pressing the left center shaft inward activates the SEL (Select) function. Press this repeatedly to cycle through the DSP (Digital Signal Processing) EQ, Bass, Treble, Balance & Fader function(s).
- 3** Pressing the "1" button allows for selection of a radio preset. When a digital file is played in SD/USB mode, this becomes the play/pause button.
- 4** Pressing the "2" button allows for selection of a radio preset or when a digital file is played in SD/USB mode pressing this button, the radio will play 10 seconds of each track on the flash drive you have inserted. Press again to cancel this function.
- 5** Pressing the "3" button allows for selection of a radio preset. When a digital file is played in SD/USB mode, pressing this button will allow you to repeatedly play the current track.
- 6** Pressing the "4" button allows for selection of a radio preset. When a digital file is played in SD/USB mode, pressing this button will allow you to randomly play all digital tracks on your flash drive or SD card.
- 7** Pressing the "5" button allows for selection of a radio preset. When a digital file is played in SD/USB mode, pressing this button this button allows you select folders on your flash drive or SD Card.
- 8** Pressing the "6" button allows for selection of a radio preset. When a digital file is played in SD/USB mode, pressing this button this button allows you select folders on your flash drive or SD card.
- 9** AUX Input(s): Allows you to plug in any device with a headphone 1/8"(3.5mm) output, directly into the front face of the Model One (Example: Ipod, CD player, Satellite, Mp3 player, etc). Use the MODE button to select Aux 1 (Front Aux input) or Aux 2 (Rear aux input). The rear mounted 3.5mm Aux input allows you to plug in another source unit, or plug the output of the included SD/USB remote mountable box to this input so you can enjoy remote operation of your rear Aux input.
- 10** Turning the right center knob to the right & left allows you to tune to the next or previous Am/Fm frequency. When playing a digital file in SD/ USB mode, this right center shaft will allow you to change tracks (next/previous) when listening to Mp3 / WMA files on an attached USB flash drive or SD card.
- 11** Pushing in the right center knob for 2 seconds, will allow you to access the sub menu system where you can adjust: Auto/Manual tuning, RDS On/off, Clock or Frequency Priority, loudness on/off, beep on/off, US/EU tuning, stereo/mono, DX (distant)/local tuning volume on default level.

(CONTINUED) Location of Controls

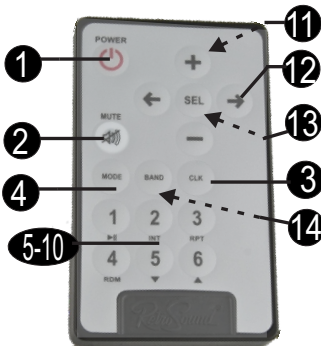


Please review this section for quick reference, as it contains information on the location of controls and basic operations. For specific details on the particular operation, please refer to the table of contents.

- 12** T/F Button: Use this button to view the clock, and toggle through various modes. Press and hold to set the clock in conjunction with the left control shaft.
- 13** MODE Function: Press this button to switch between all modes of operation, Radio/USB/AUX-In 1/AUX-In 2. This button also can access the TA (Traffic Announcement function of the RDS tuner.)
- 14** BAND Function: Press this button to switch between 3 FM BANDS (FM 1/FM 2/ FM 3) 2 AM BANDS (AM-1 AM-2); 30 PRESETS TOTAL. To save your preset, simply hold the preset button down, listen for the confirming beep or blinking of the preset. Your desired preset will be then saved.
- 15** SD/USB Remote Mountable box: Rear mounted USB/SD reader allows you to connect any USB flash/thumb drive or SD card when the unit is in USB SD mode. In this mode, you can play Mp3 & unprotected (no DRM) WMA files off of the USB drive or SD card! Note: this input is for flash drive use or SD use ONLY. This unit will not control an ipod, however you may plug the headphone output of your ipod or iphone or any other device that has a headphone output into the aux inputs of this radio.

16 Backlit LCD Display Window

Included RF Remote Control Legend



- 1** Press to turn on/off unit
- 2** Press this to MUTE volume
- 3** Press CLK to view clock
- 4** Press MODE to cycle through Radio, Aux-in 1 & 2, USB/SD modes
- 5** Press 1 to access preset in radio mode. When in USB mode, use to access Play/Pause
- 6** Press 2 to access preset in radio mode. When in, use to access 10 second preview of digital tracks
- 7** Press 3 to access preset in radio mode. When in USB/SD mode, use to hear current track again
- 8** Press 4 to access preset in radio mode. When in USB/SD mode, use to access RANDOM mode when playing digital files
- 9** Press 5 to access preset in radio mode. When in USB/SD mode, use to select folders on your USB/SD drive/card
- 10** Press 6 to access preset in radio mode. When in USB/SD mode, use to select folders on your drive/card
- 11** Press +/- to decrease / increase volume
- 12** Press ←→ to manually select Am/Fm frequencies. In USB/SD mode use this to select next or previous digital tracks Press and hold to fast forward or rewind
- 13** Press SEL repeatedly to cycle through the EQ, Bass, Treble, Balance & Fader function(s) Press and hold SEL to access Sub menu to adjust Loudness, Beep, Band, etc
- 14** Press BAND to cycle through AM/FM band (Fm-1-3, Am-1-2)

(CONTINUED) Location of Controls

Please note that some remotes included with our Model One radios may not come coded to the radio from the factory. Follow the procedure below to code the remote to the radio.

HOW TO CODE A NEW REMOTE INTO YOUR MODEL ONE RADIO
(FOR QUESTIONS CALL 888-325-1555 OR SEND EMAIL TO SUPPORT@RETROSOUNDUSA.COM)

1. TURN ON RADIO

2. PRESS & HOLD FOR 2 SECONDS

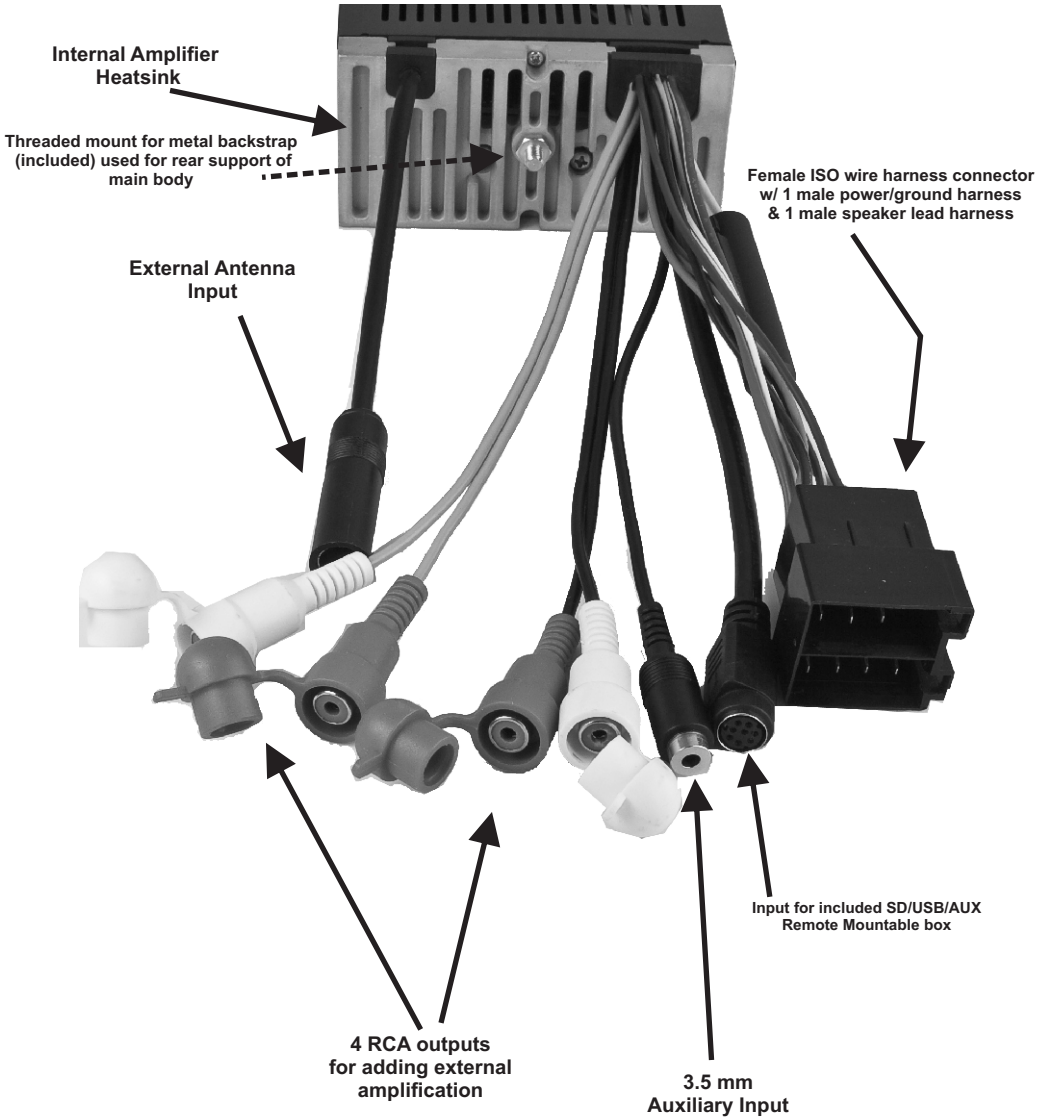


3. PRESS "1122" USING PRESET BUTTONS, WAIT FOR BEEP, GO TO STEP 4

1. TURN ON RADIO BY PRESSING LEFT CENTER SHAFT BUTTON
2. PRESS AND HOLD THE RIGHT CENTER SHAFT BUTTON FOR 2 SECONDS, THEN RELEASE BUTTON
3. PRESS THE FOLLOWING PRESET BUTTONS "1122" LISTEN FOR BEEP, GO TO STEP 4
4. PRESS ANY BUTTON ON THE REMOTE TO ALLOW THE RADIO TO RECOGNIZE THE REMOTE.

(CONTINUED) Location of Controls & Connectors

REAR View of Model One



(CONTINUED) Location of Controls & Connectors

Remote Mountable SD/USB/Aux-In Box



3.5mm Aux input

Connect your Ipod, satellite, or other portable device's headphone jack to this port

SD Card Input (Up to 32 gig)
can be plugged into this slot
SD/MMC/SDHC AND Mini & Micro SD Cards
can be used with SD adapters.

Plug your flash memory drive
into this USB port (Up to 32 Gig)
The Model One unit
can read .mp3 and .wma files
directly from your flash drive!

NOTE: THIS USB INPUT IS NOT FOR USE WITH IPOD!

SD/USB CONNECTOR

(PLUGS INTO BACK OF MODEL ONE/APACHE)

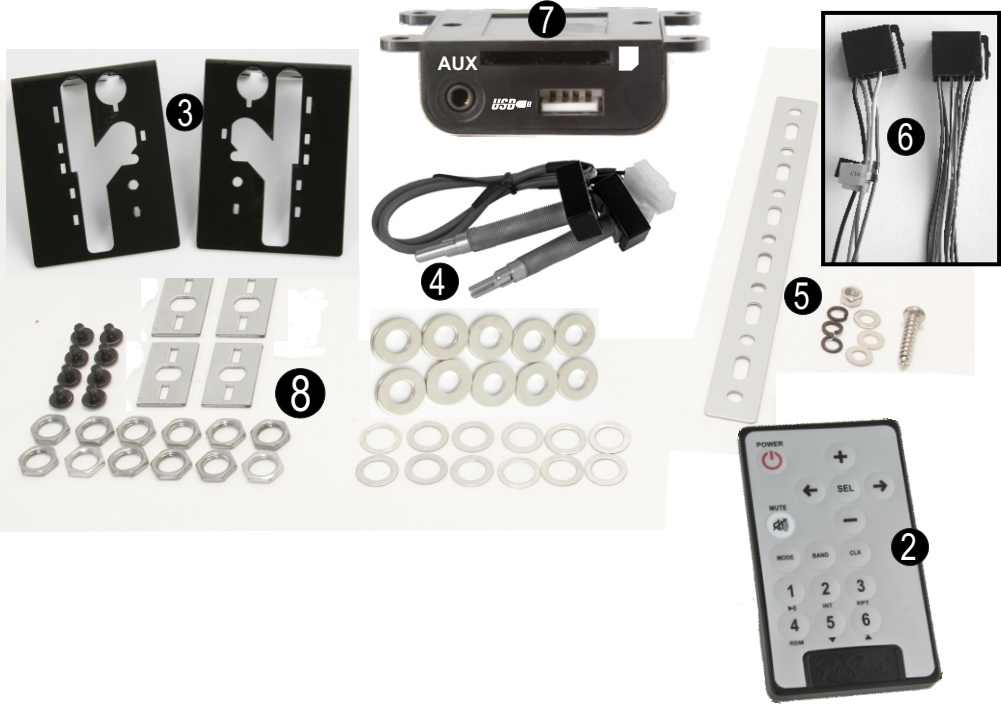
3.5MM OUTPUT

(PLUGS INTO AUX INPUT IN BACK
OF MODEL ONE/APACHE RADIO)

Plug your Ipod or other portable
Device into the Aux port on the front
of the SD/USB Box



What's in the Box (accessories & parts)



What's in the box:

- ❶ (1) Retro Sound Model One*
- ❷ (1) 16-key remote control (includes Battery/already installed**)
NOTE: RETRO CLASSIC UNIT DOES NOT INCLUDE REMOTE (OPTIONAL)
- ❸ (2) Infinimount Brackets
- ❹ (2) Infinimount Shaft System
- ❺ (1) Metal backstrap w/ hardware, used to secure main unit behind dash
- ❻ (2) ISO Wiring harness to connect to Model One
- ❼ (1) Remote Mountable SD/USB/Aux-In Box
- ❽ (misc) Screws, washers & parts to mount Infinimount shafts & brackets

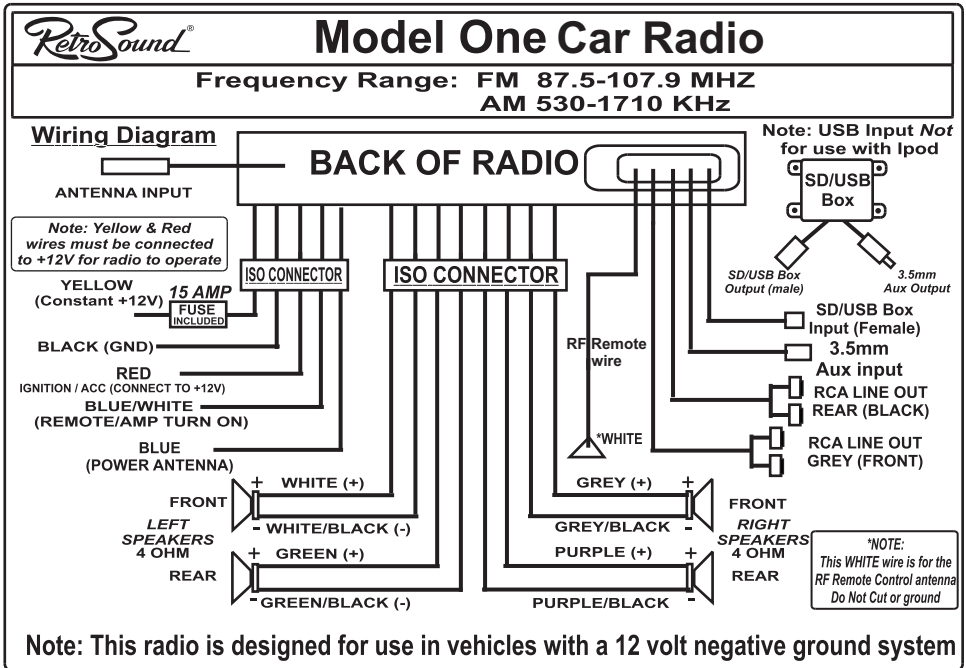
*Note: Item # 1 is not shown above, but is included in the box

**Note: if batter not in remote, it is packaged separately in the box

Preparing to Install Your Unit

PLEASE NOTE THAT THIS UNIT REQUIRES +12V TO BOTH THE RED & YELLOW WIRES, OTHERWISE THE UNIT WILL NOT OPERATE. CALL US OR EMAIL US IF YOU HAVE QUESTIONS! (Support@retrosoundusa.com)

Familiarize yourself with the Model One wiring harness (Note: There are 2 plug connectors: Plug "A" which contain power/ground connections & "B" which contains the speaker leads)



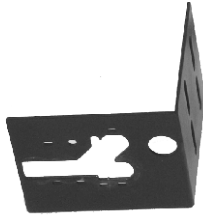
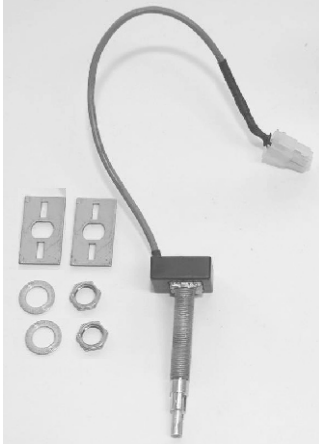
Installation Notes:

To prevent damage to the unit, do not connect the power connector until you have completed the wiring process.

This is a 12 Volt negative-ground ONLY radio. If you have a positive-ground, or a 6-volt system, you need to either convert to 12 volts or purchase a separate inverter that would step up the voltage to 12 volts. Please note that the inverter needs to be rated at 5 amps or higher in order for the Apache to operate properly.

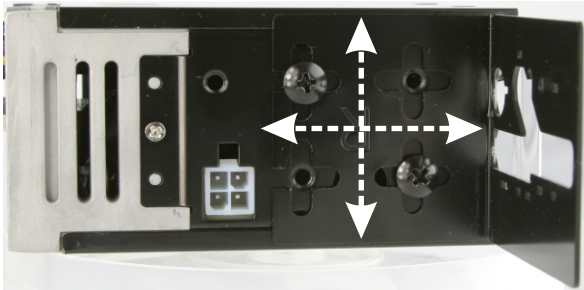
Preparing to Install Your Unit (Continued)

Find the Infinimount shafts & brackets (2 of each enclosed)



X 2

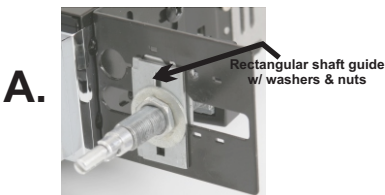
Assemble the Model One unit's Infinimount bracket and shaft system using the supplied screws and shaft nuts.



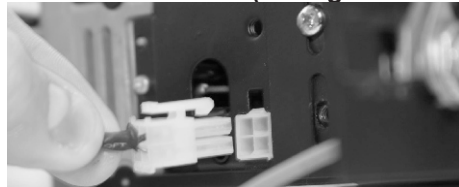
Note: you can move our brackets forward, backward, and in any direction to accommodate your fit needs!

You can even cut, trim or bend the bracket for your particular needs. Also if you have a challenging install, you can even create your own brackets!

Due to the flexible installation variations this system offers, in order to match the Infinimount shaft & bracket system to the proper shaft width of your vehicle, simply measure the distance between your existing shaft holes center to center. Then mount the shaft system to the bracket using supplied shaft nuts and shaft mounting guide, and finger tighten to prepare for the final installation (see figure A below). Once you are sure of proper width, then tighten prior to final installation. Be sure to plug the shafts into the side of the main unit to activate the shaft-control functions (see figure B below).



**Mount Shaft
to Bracket**



**Plug Shaft into
Side of Main Unit**

Preparing to Install Your Unit (Continued)

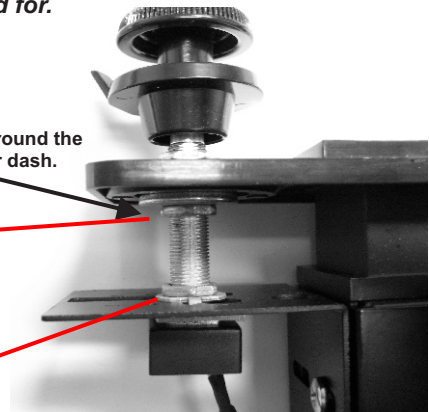
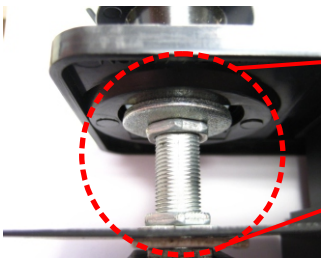
Prepare to set up your vehicle-specific kit
(Optional 67-72 GM Truck bezel shown as an installation example)



Once shafts are lined up to the shaft openings on the vehicle-specific faceplate adapter, use a nut and washer to hold the faceplate in place on the shafts so the Model One's face is flush with the opening of the faceplate (see photos below). *NOTE: Modifying or cutting the radio's brackets will not void your warranty, this is what our radio is designed for.*

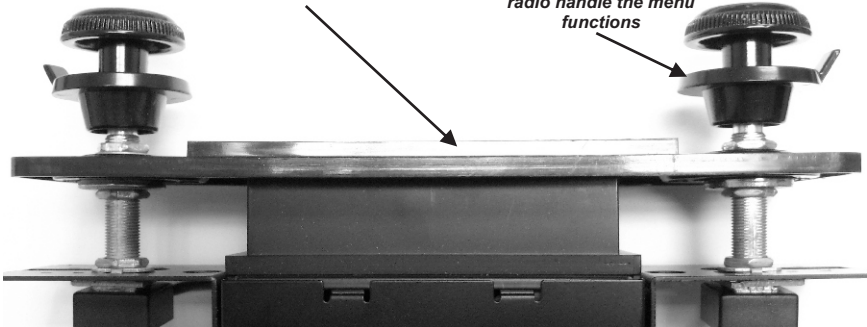
Use supplied nuts & washers
to align bezel onto shaft.

Adjust nut height to allow bezel/faceplate
to be flush in your dash. Note, with this bezel, the area around the
radio face (chrome or black) mounts from behind your dash.



Vehicle-specific adapter & Model One
radio face should be flush for professional appearance

Please note that the rear knob
does not function,
only the front knobs of our
radio handle the menu
functions



Tighten shaft nuts and make sure that shaft depth works with
your dash configuration; the Retrosound Infinimount bracket shaft and bracket system
are extremely adjustable and care should be taken to ensure proper final fit
for the perfect installation.

Preparing to Install Your Unit (Continued)

Below, The final result!:

67-72 GM Truck bezel shown installed in the vehicle's dash, note that the radio face is flush with the bezel in the dash for a professional looking installation. Getting the unit to fit perfectly into your dash is probably the most difficult portion of the install. Patience and persistence is the key. If you still have problems, please send us an email at support@retrosoundusa.com or give us a call at: 909-364-1372.

If you still have difficulties during your installation, we strongly recommend that you take your vehicle to a high quality car audio installation shop or classic car specialist.

Note: One of the biggest questions we get is "how can your radio fit my car" ? Since our radio is essentially a universal solution, (one chassis for most vehicles) our radio's control face is a fixed size (3.5" W x 1.5" H). Most American cars fit the OE radio from behind the dash and they require a "bezel", meaning this bezel fits around our radio's control face to fill your original factory opening for our radio.

Now the Control face of our radio is NOT referred to as a "faceplate" a faceplate is something that overlays or covers the top or front of the dash.

A faceplate is used in most European (German, British, Japanese) cars, and can also be used if your dash has been modified to cover up any blemishes or poorly made modifications. Our flat Euro style faceplates are perfect for covering those unsightly modifications to make them look close to original. We also have a 3.5" H x 9"W Universal plate you can trim and cut to get the desired appearance.



RetroSound Model One B w/ Black Control Face shown above with Chrome dash bezel and Model One C w/ Chrome Control Face

Preparing to Install Your Unit (Continued)

The RetroSound Model One is available with an optional set of metal knobs and a faceplate (for the front of the dash) or bezel (mounts from behind the dash) that fits around the control face of your Model One/Apache or Retro Classic radio(s). Please consult us at support@retrosoundusa.com regarding a universal or vehicle specific faceplate/bezel & knob kit for your car. Below is a Retro Model One shown with an optional 67-68 Camaro faceplate & Chrome Metal knobs.



Optional:
67-68 Camaro Faceplate shown above

Below are examples of some of the available dash bezels and faceplate adapters available:



Optional:
68-85 VW/Porsche/Jaguar/BMW faceplate (mounts on top of the dash) This solution shown with our exclusive all metal chrome euro style knobs



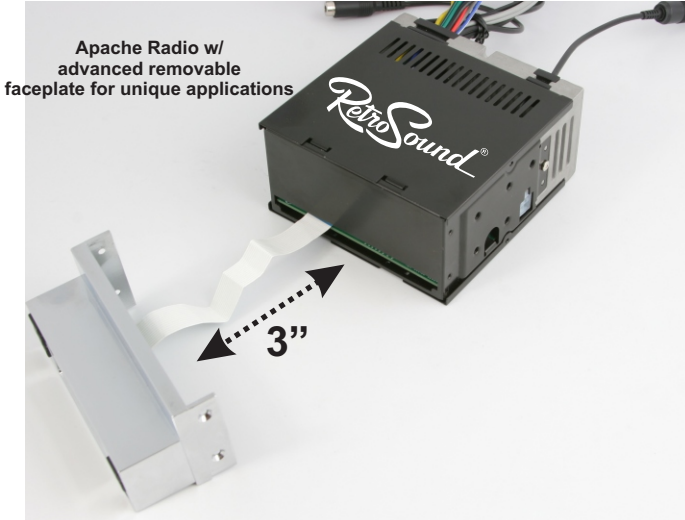
Optional:
70-72 Chevelle bezel. (mounts from behind the dash) This solution shown with our exclusive all metal GM style black and chrome metal knobs



Optional:
59-67 Cadillac dash bezel, notice the shafts have been placed on the left side of the radio, something no other radio can do out of the box. Your RetroSound Radio is capable of so many amazing installation possibilities, they're only limited by your imagination!

Preparing to Install Your Unit (Continued)

NOTE: The following installation option is for advanced knowledgeable custom installation specialists. The RetroSound Model One faceplate is removable to allow for unique angled installations, canted angles, upside-down mounting and other unique configurations limited only to your installation skills. Below is a photo illustrating what the unit looks like with the control face removed, connected by a ribbon cable from the body of the main unit to the radio's control face. (There is about 3" of cable length from the body to the radio control face).



After preparing for your installation and understanding your needs, proceed to install the unit and connect the wiring, and make sure you use the metal backstrap to support the main body of the the unit from the rear.



Preparing to Install Your Unit (Continued)

Metal Knob Install Guide

Sometimes the RetroSound Shafts need to be adjusted to allow you to mount our metal knobs to the shafts. Once your radio is installed follow the steps below to ensure a proper knob fit.

1.



For the rear-knob, simply insert a blade screwdriver diagonally to slightly spread apart the secondary back-knob position to allow the rear knob to fit snugly.

2.



For the front-knob, use a pair of needle nose pliers and GENTLY crimp the front-knob prongs closer together. Please use caution not to make these too tight, then mount the front-knob, and you're done!

Final Result! ***Modern Sound for your Classic!***

3.



Model One Specifications

Tuner Section

FM

Tuning Range (Eu & US Tuning Capable) w/ RDS
 Antenna Terminal
 Usable Sensitivity
 Selectivity
 Signal to noise Ratio
 Harmonic Distortion @ 1 kHz
 Separation
 Frequency Response

Specs

87.5-107.9MHz
 External Antenna Connector
 12.5 dBf
 75 dB @ 400kHz
 62 dB (Stereo), 67 dB (Mono)
 0.8% (stereo), 0.5% (monaural)
 32 dB @ 1kHz
 30-16,000 Hz

AM (Eu & US Tuning Capable)

Tuning Range
 Antenna Terminal

530-1710 kHz
 External Antenna Connector

General

Dimensions (Radio face only)
 Dimensions (Radio body)

3.5"W x 1.5" H x 1.05" D
 3.96"W x 1.98"H x 4.30"D

Power Requirements
 Current Consumption
 Current Consumption
 Output Power (@ 14.4 V @ 4 ohm @ 1% THD)
 Output Impedance
 Low Level Output (4 Channels)
 AUX input (Rear)
 AUX input (Front)

10.5-14.4V
Max . 15A
 <3.5 mA
 50x4w RMS 100x4 Max power
 4-8ohm
 2.85V
 2 V / 6 kΩ
 500 mV / 6 kΩ

All Unit Specs Are Subject To Change without notice

Unit Dimensions



Using Your Unit (Detail)

Setting the Clock:

Press the T/F Button on the face of the unit when the unit is turned on. Press and hold the T/F button. When the clock is seen on-screen blinking, release the T/F Button and use the left shaft center knob, and turn knob right or left to adjust hours (note: AM & PM is adjusted by changing hours). Press the left shaft center knob to select minutes, then turn left or right to adjust. Press T/F button to store the clock settings. (Note: When EU tuning mode selected, military/24 hour time mode will be activated). Once the time is set, pressing the T/F button will activate the clock mode.

Press and hold to activate clock setting mode (release, when you see the blinking clock)



Turning The Unit On/off:

Press the Left center knob to turn the unit on. Look for "RETROSOUND" on power up. Press and hold the left center knob for 2 seconds to turn the unit off. The LCD display will show "GOODBYE" for your confirmation.

Volume Adjustment:

Turning the center left shaft left or right controls the volume attenuation up and down function. Note: Volume range is 0-40, factory default is set at 16. Use the included remote to activate "mute" function.

Select Your Listening Source(s):

MODE Function, Press this button to switch between all modes of operation- Radio /USB/SD-MMC /Aux in 1 / Aux in 2 (Note: USB/SD option will not appear unless media is plugged into the USB/SD slot)

RADIO



USB / SD-MMC



AUX IN1



AUX IN2



Using Your Unit (Detail)

Adjusting the Sound Properties:

The Retrosound Model One has many sound adjustment modes to help you tailor the radio to your preference. To access these modes of adjustment, press the left knob (SEL) in and turn the knob to the right or left to adjust. Then press SEL again to cycle through the choices. When you have completed your adjustments, simply stop adjusting the mode and it will revert to your current setting. Below are photos of the various sound adjustment modes available in all playback modes, Radio, Aux1, Aux2, USB or SD/MMC.



When you first access the SEL menu, DSP is off. Turn the left shaft knob right to cycle through the presets or press SEL to move to the bass & treble settings.



The DSP OFF setting offers no bass or treble adjustment. (Note: DSP must be set to OFF in order for bass & Treble to function)



The CLASSIC DSP setting offers sonic adjustments that lend themselves to Classical Music.



The POP DSP setting accentuates the bass and treble settings. This is suitable for bass heavy popular music.



The ROCK DSP setting accentuates the treble settings. This is suitable for Rock Music



The bass adjustment function allows you to boost or cut the low frequencies from -7 to +7. (Note: make sure DSP function is set to OFF in order for Bass & Treble to operate)



The treble adjustment function allows you to boost or cut the high frequencies from -7 to +7. (Note: make sure DSP function is set to OFF in order for Bass & Treble to operate)



The Balance adjustment function allows you to adjust or pan the stereo sound from the left or right. This is helpful to compensate for the position of the driver in relation to the speaker location. Adjustment range is 0-10 left or right speakers.



The Fader Control allows you to fade the sound from the front pair of speakers to your rear pair of speakers. Adjustment range is 0-10 front or rear speakers.

Using Your Unit (Detail)

Special Modes of Operation (Sub-Menu System)

SUB-MENU FUNCTION: AUTO/MANUAL



To Activate the AUTO/MANUAL function from the Sub Menu, press the center right shaft "SEL" button and hold it for 2 seconds, release button when you see the menu.

Then turn the shaft control right or left to toggle the AUTO/MANUAL (factory default is AUTO).

This function allows you to select auto seek tuning or manual tuning when you turn the right shaft knob to the right or left when listening to the radio.

SUB-MENU FUNCTION: RDS ON/OFF



To Activate the RDS ON/OFF function from the Sub Menu, press the center right shaft "SEL" button and hold it for 2 seconds, release button when you see the menu. Then turn the shaft control right or left to toggle the RDS function ON or OFF (factory default is ON).

This function allows you to turn off the RDS function if you desire to not see the RDS information.

SUB-MENU FUNCTION: CLOCK/FREQUENCY PRIORITY



To Activate the Clock/Frequency function from the Sub Menu, press the center right shaft "SEL" button and hold it for 2 seconds, release button when you see the menu. Then turn the shaft control right or left to toggle the Clock Priority function or Frequency Priority (factory default is Clock Priority). When Clock Priority (PRI-CLK) is selected, the clock function will remain on screen all the time when listening to the radio or USB. PRI-FREQ function.

SUB-MENU FUNCTION: US/EU RADIO TUNING



The Retrosound Model One has the capability to receive AM/FM broadcast frequencies in other countries. To modify the default setting (USA) to EUR (Europe), press and hold the SEL (right center shaft knob). Repeatedly press the right center shaft button to scroll through the sub menu and turn the knob to the right, on screen you will see "AREA USA". Turn the knob to the right to select AREA USA or AREA EUR. To confirm the change, let the sub menu revert to your tuner. You will see your selected mode, either AREA USA OR AREA EUR. Press SEL to move to the next function desired, or don't press anything and the menu will revert to the current source display.

IMPORTANT: When switching the tuner to BND EUR mode, your STORED radio presets will be erased and the clock will change to military / 24 hour time. Also in EUR tuning mode, the "AF" RDS function (as a default) will be active, and the unit will search for the next strongest station when the one you're listening to gets weak (FM only).

Using Your Unit (Detail)

SUB-MENU FUNCTION: LOUDNESS ON/OFF



To Activate the LOUDNESS function from the Sub Menu, press the center right shaft "SEL" button and hold it for 2 seconds, release button when you see the menu. Then turn the shaft control right or left to toggle the LOUD function ON or OFF. This function boosts bass & treble at low listening volume and should be turned off at higher volumes. You will know this function is active when you see "LOU" lit up on your display.

SUB-MENU FUNCTION: BEEP ON/OFF



To modify the audible confirmation beep on or off (factory default is "BEEP ON"), press and hold the SEL (right center shaft knob), release button when you see the menu. Repeatedly press the right center shaft to scroll through the sub menu and turn the knob to the right to turn the confirmation beep to "BEEP OFF".

SUB-MENU FUNCTION: STEREO/MONO



When listening to the AM/ FM tuner, you can access the stereo/mono Sub Menu system. Press and hold the SEL (right center shaft knob), release button when you see the menu. Repeatedly press the center shaft to scroll through the sub menu and turn the knob to the right to select between Stereo/Mono operation. Selecting between these functions can aid in listening to weak FM radio stations that keep switching between Stereo & Mono modes. Selecting mono in this case will prevent this, so you can reliably listen to the station.

SUB-MENU FUNCTION: LOCAL / DX



When listening to the FM tuner, you can access the local/dx Sub Menu system. Press and hold the SEL (right center shaft knob), release button when you see the menu. Repeatedly press the center shaft to scroll through the sub menu and turn the knob to the right to select between Local / DX (Distant) operation. Selecting between these functions can aid in listening to weak FM radio stations or compensate for stations that have too strong of a signal.

SUB-MENU FUNCTION: VOL ADJ/VOL LAST



From any mode you can access the vol adj/vol last Sub Menu system.

Press and hold the SEL (right center shaft knob).

Repeatedly press the center shaft to scroll through the sub menu, turn the knob to the right to select VOL ADJ/VOL LAST operation. Factory default is VOL LAST (this mode maintains the last volume the radio was at when you turned it off). When you select VOL ADJ mode, you can set the default turn-on volume at any level you want, no matter what the volume level was when you last turned off the unit.

Using Your Unit (Detail)

WHAT IS RDS?

RDS stands for Radio Data System. RDS tuners can automatically tune in stations according to the style of music (or talk) they broadcast. Some RDS tuners can even break in with traffic alerts or emergency broadcasts. RDS enables your receiver to display text messages (usually call letters and format info) that many FM stations include on a subcarrier signal within their normal broadcast signal.

How to use RDS on your Retrosound Radio

The RDS function is always active, 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. Please note that not all FM stations use RDS. The standard has been around for well over 15 years.

How to use the PTY function when in the AREA USA tuner mode

RDS has a function called PTY (Program Type). This coding of up to 31 pre defined program types allow you to find similar programming by genre. When the tuner searches for this desired programming type, the tuner will study all strong FM stations to see what programming type they are broadcasting. If the programming type is found, the radio will select it.

To use this function, press and hold BAND button for 2 seconds. Use the Preset buttons 1-6 to choose from 10 different program categories (2 per preset), then hold the BAND button for another 2 seconds to access another bank of 10 program categories. Once the program type has been selected, the tuner will search all available FM stations for a station broadcasting the selected program category. Example, if you're looking for COUNTRY stations: PRESS AND HOLD BAND FOR 2 SECONDS, THEN PRESS AND HOLD FOR ANOTHER 2 SECONDS, PRESS PRESET # 3 AND TOGGLE BETWEEN ADLT_HIT / COUNTRY, BY PRESSING THE PRESET # 3 BUTTON. Your screen will look like this:



SEARCHING FOR COUNTRY STATIONS



PRESS AND HOLD "BAND" ONCE FOR 2 SECONDS TO ACCESS THESE PROGRAM TYPES:

- | | |
|----------------------------|------------------------------|
| 1# Preset: ROCK/CLS_ROCK | 4# Preset: NOSTALGIA/JAZZ |
| 2# Preset: SOFT_RCK/TOP_40 | 5# Preset: CLASSICL/R_B |
| 3# Preset: OLDIES/SOFT | 6# Preset: SOFT_R_B/REL_MUSC |

PRESS AND HOLD "BAND" ONCE AGAIN FOR ANOTHER 2 SECONDS TO ACCESS THESE PROGRAM TYPES:

- | | |
|-----------------------------|------------------------------|
| 1# Preset: NEWS/INFORM | 4# Preset: LANGUAGE/REL_TALK |
| 2# Preset: SPORTS/TALK | 5# Preset: PERSNLTY/PUBLIC |
| 3# Preset: ADLT_HIT/COUNTRY | 6# Preset: COLLEGE/WEATHER |

Using Your Unit (Detail) RDS MODES CONTINUED...

How to use the PTY function when in the AREA EUR tuner mode

RDS has a function called PTY (Program Type). This coding of up to 31 pre defined program types allow you to find similar programming by genre. When the tuner searches for this desired programming type, the tuner will study all strong FM stations to see what programming type they are broadcasting. If the programming type is found, the radio will select it.

To use this function, press and hold BAND button for 2 seconds. Use the Preset buttons 1-6 to choose from 10 different program categories (2 per preset), then hold the BAND button for another 2 seconds to access another bank of 10 program categories. Once the program type has been selected, the tuner will search all available FM stations for a station broadcasting the selected program category. Example, if you're looking for NEWS stations: PRESS AND HOLD BAND FOR 2 SECONDS, THEN PRESS AND HOLD FOR ANOTHER 2 SECONDS, PRESS PRESET # 1 AND TOGGLE BETWEEN NEWS/AFFAIR/INFO, BY PRESSING THE PRESET # 1 BUTTON. Your screen will look like this:



SEARCHING FOR NEWS STATIONS



PRESS AND HOLD "BAND" ONCE FOR 2 SECONDS TO ACCESS THESE PROGRAM TYPES:

- | | |
|-------------------------------|--------------------------------|
| 1# Preset: POP M / ROCK M | 4# Preset: JAZZ / COUNTRY |
| 2# Preset: EASY M / LIGHT M | 5# Preset: NATIONAL M / OLDIES |
| 3# Preset: CLASSICS / OTHER M | 6# Preset: FOLK M |

PRESS AND HOLD "BAND" ONCE AGAIN FOR ANOTHER 2 SECONDS TO ACCESS THESE PROGRAM TYPES:

- | | |
|--|---|
| 1# Preset: NEWS / AFFAIR / INFO | 4# Preset: WEATHER / FINANCE / CHILDREN |
| 2# Preset: SPORT / EDUCATIO / DRAMA | 5# Preset: SOCIAL / RELIGION / PHONE IN |
| 3# Preset: CULTURE / SCIENCE / VARIOED | 6# Preset: TRAVEL / LEISURE / DOCUMENT |

AF FUNCTION: (AVAILABLE ONLY IN AREA EUR TUNER MODE)

in EUR tuning mode, the "AF" RDS function (as a default) will be active. The unit will search for the next strongest station, when the one you're listening to gets weak (FM only). You can turn this function off by accessing the right shaft sub menu. When in AREA EUR tuning mode, this function appears, and you can turn it on or off in the sub menu. (default is ON).

TA FUNCTION: (AVAILABLE IN US & EU TUNING MODES)

TA or "Traffic Announcement" is another RDS function that allows FM stations to broadcast traffic announcements that scroll across the screen and also broadcast audible traffic alerts to your radio. To access this mode, press and hold the "MODE" button to toggle this "TA" function ON or OFF.



Using Your Unit (Continued)

Selected Source: Radio

Once you've selected the radio function, you can start storing your presets or tuning to your preferred station.

Press "BAND" to select FM1,2,3 or AM1,2 for a total of 30 Presets



To save a preset, tune to the station using the right shaft knob, then choose the preset number you wish to assign to that station. Press and hold the button. Listen for a confirming beep, and now you have saved that preset. **NOTE:** turning the right shaft knob to the right or left will allow the tuner to select the next or previous strong station. This is known as the SEEK or "AUTO" function. To manually tune, press the right shaft knob in and you will see "MANUAL" appear in the center of your screen (see photo below). This will allow you to manually tune into any station you want, strong or weak.

When a strong FM station is selected the  indicator will light up



Band Preset Indicator (shows you the Preset # you have assigned to the preset button)

Selected Source: USB/SD-MMC

USB/SD Card INPUT: Once connected, the remote mountable USB/SD box allows you to connect any USB flash/thumb drive or SD flash memory card into its slots.

When the unit is in USB/SD mode, you can play Mp3 & unprotected (no DRM) WMA files off of the USB drive or SD card! **Note:** this input is for flash drive use **ONLY**. This unit will not control an ipod. Please use the front or rear auxiliary inputs to connect your ipod.

Indicator showing USB drive is in use



Indicator showing SD card is in use



USB/SD MODE:

Once you've connected your flash drive or SD card to the remote mountable USB/SD box, the Model One will find your songs instantly, and automatically start playing them from any mode. To change songs, use the right shaft knob and turn it to the right or left to access the next or previous song. Please note that the function buttons on the front of the faceplate will allow you to play/pause, listen to 10 seconds of each song (INT) or repeat the track you're listening to (RPT) or randomly select from all songs on the attached thumb/flash drive. **NOTE: The unit MUST be in USB or SD-MMC mode for it to read the USB files on your flash/thumb drive or SD card.**

Using Your Unit (Continued)

Selected Source: USB/SD (All About MP3 WMA files)

MP3 (MPEG Audio Layer-3) and WMA (Windows Media™ Audio) is a format for compressed audio files.

Common facts about these compressed-sound formats:

High bit rate and high sampling frequencies are recommended for high sound quality. Selecting VBR (Variable Bit Rate) is not recommended because playing time is not displayed properly and there may be some audible skipping artifacts. The playback sound quality differs depending on the encoding circumstances. For details, refer to the user manual of your own encoding software.

MP3 Notes:

It is recommended to set the bit rate to "128 kbps or more" and "fixed".

WMA Notes:

It is recommended to set the bit rate to "64 kbps or more" and "fixed". Do not set the copy protect attribute on the WMA file or you will not be able to play the track.

Placement of music on your flash drive:

The Model One will read only FAT or FAT32 formatted flash drives or SD cards up to 32 gigs in size. The radio will NOT read NTFS formatted drives or cards. The Model One will read files placed in the root directory first before playing files in the folder structure of the drive. Please note that files are read in order of creation NOT alphabetically or numerically. (Older files will get read first in a folder).

Caution! Except for private use, duplicating audio data (including MP3/WMA) or distributing, transferring or copying it, whether for free or if it is paid for without permission of the original copyright holder is strictly prohibited by the Copyright Act and international treaty.

Viewing the MP3/WMA Song information

When playing Mp3/WMA files from the USB/SD sources, the Model One allows you to view the track name, album, artist info (id-3) information automatically from these files. Below are examples of what you will view when playing a song in USB MODE:

Once the USB Drive or SD card is inserted into the remote mountable card reader of the Model One, the following info will scroll across the screen in the order below:

F-DIR (Folder Directory), Mp3 FILE (file name of song), ALBUM (Name of artist album)
ARTIST (Name of artist), SONG (name of song)



Note: To access the clock when in USB mode, press T/F and clock will appear until pressed again. You can quickly view the various text modes by pressing BAND in USB mode

Connect USB drive or SD card to the remote mountable USB/SD reader in rear of Model One. Unit will start playing from that drive or card immediately no matter what mode you are in.



"Note: USB drive or SD card not included and is used here for illustration purposes

Using Your Unit (Continued)

Playback Modes available in USB Mode

Please note that the function buttons on the front of the faceplate (1-6) will allow you to play/pause, listen to 10 seconds of each song (INT) or repeat the track you're listening to (RPT) or randomly select from all songs from a USB thumb/flash drive or SD card. The Up/Down arrow keys (5, 6) will allow you to play the first track from the present folder or the first track of the next folder (if more than one folder is present on the drive). Please see the modes below that show how they will appear on your display:



Press "1" to Play/Pause the current track



Press "2" (INT) to listen to 10 seconds of each track in the current folder (Press INT again to cancel this mode)



Press "3" (RPT) to Repeat the currently playing track (Press RPT again to cancel this mode)



Press "4" (RDM) to allow the unit to randomly play tracks on your USB drive or SD Card (Press RDM again to cancel this mode) (Note: Random mode will access any file located in or outside of folders when in this mode)



Press "5" or "6" to allow you to play the first track from the present folder or the first track of the next folder (if more than one folder is present on the drive).

Using Your Unit (Continued)

Selected Source: AUXILIARY INPUT 1 (FRONT OF RADIO) AUXILIARY INPUT 2 (REAR OF RADIO)

Plug in your external music source using a 3.5mm (1/8") connector.

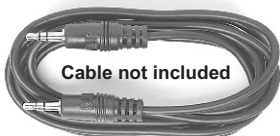
An example of an external source would be a portable CD player, mini disc player, portable cassette recorder, Ipod, Mp3 player. Anything with an analog stereo headphone jack can be connected to this input. The Model One also comes equipped with an additional auxiliary input on the rear of the unit. There are two separate auxiliary inputs on this radio (Aux 1, Front) and (Aux 2, Rear input).

Select the AUX 1 or AUX 2 mode by pressing the MODE button until you see AUX IN 1 OR AUX IN 2 on the Model One's screen. (see photos below).



AUX IN 1 (FRONT PANEL AUX IN)

Connect your 3.5 mm (1/8") stereo headphone connector to the AUX in port on the front of the Model One



AUX IN 2 (REAR OF MODEL ONE OR VIA USB/SD/AUX BOX)



Plug your Ipod or other portable device into the Aux port on the front of the SD/USB Box

LIMITED WARRANTY

If your product does not work properly because of defects in materials and workmanship RetroSound a division of Retro Manufacturing, LLC (collectively referred to as "the warrantor") will, for the length of the period indicated in the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or refurbished product. The decision to repair or replace will be made by the warrantor.

CATEGORIES	PARTS	LABOR
Radios	Two (2) Years	Two (2) Years
Speakers	One (1) Year	One (1) Year
Accessories (Remotes, cables, etc)	90 Days	90 Days

During the "Labor" warranty period, there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must carry in or mail in your product prepaid during the warranty period. If batteries are included, they are not warranted. This warranty only applies to products purchased and serviced in the United States, Alaska, Hawaii or Puerto Rico. This warranty is extended only to the original purchaser of a new product which 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, contact us at 909-364-1372 or email us at support@retrosoundusa.com and get a Return Authorization number. All returns and warranty issues must receive a Return Authorization (RA) number. Any product received without a RA number will be refused. Once a number is issued, send the product to this address:

Retro Manufacturing, LLC
5785 Waco Street
Chino, California 91710
Phone: 909-364-1372
Fax: 909-364-8670

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 which occurred during shipment, failures which are caused by products not supplied by the warrantor, failures which 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 the technician from Factory Service center or other authorized service centers, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the seviceer, 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 product develops during or after the warranty period, you may contact your dealer or service center.

Retro[®]
MANUFACTURING

MODERN SOUND FOR YOUR CLASSIC