

# JENSEN®

Docking Digital HD Radio™ System for iPod® and iPhone™

HD Radio®



**Owner's Manual**

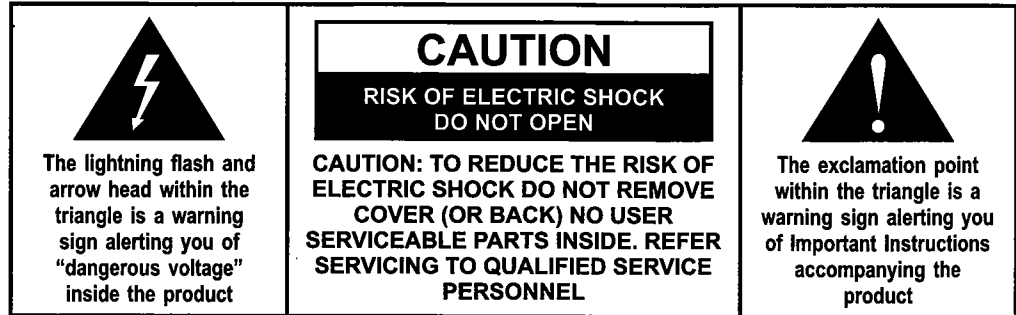
**JiMS-525i**

(iPod and iPhone Not Included)

Please read and follow this Instruction Manual carefully before using the unit and retain it for future reference

# IMPORTANT SAFETY INSTRUCTIONS

**WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET REFER SERVICING TO QUALIFIED PERSONNEL ONLY.**



**The Caution marking is located at the bottom of the unit.**

**The rating plate is located at the bottom of the unit.**

## **CAUTION:**

**PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS GIVEN IN THIS OWNER'S MANUAL AND THOSE MARKED ON THE UNIT, KEEP THESE INSTRUCTIONS. RETAIN THIS BOOKLET FOR FUTURE REFERENCE.**

This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use and servicing. This unit does not contain any parts that can be repaired by the user.



The symbol for class II (Double insulation)

**DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.**

1. Read these Instructions.
2. Keep these Instructions.
3. Heed all Warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

# IMPORTANT SAFETY INSTRUCTIONS

9. Do not defeat the safety purpose of the polarized or grounding – type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in anyway, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



## FCC NOTICE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is needed.
- Consult the dealer or an experienced radio/TV technician for help.

## Warning:

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on apparatus.
- Main plug is used as disconnect device and it should remain readily operable during intended use. In order to disconnect the apparatus from the mains completely, the mains plug should be disconnected from the mains socket outlet completely.
- Battery shall not be exposed to excessive heat such as sunshine, fire or the like.

# TABLE OF CONTENTS

WELCOME .....	4
PROTECT YOUR FURNITURE .....	4
ABOUT THIS MANUAL .....	4
LOCATION OF CONTROLS .....	4
FRONT VIEW .....	4
REAR VIEW .....	5
DISPLAY UNIT .....	5
REMOTE CONTROL SECTION .....	6
GETTING STARTED .....	6
UNPACKING THE HD RADIO™ RECEIVER .....	6
CONNECTING THE FM ANTENNA WIRE .....	6
CONNECTING THE HD RADIO™ RECEIVER TO A CABLE RADIO SIGNAL .....	7
ANTENNA GROUNDING .....	7
NOTICE FOR CABLE TV SYSTEM INSTALLER .....	7
CONNECTING THE AM LOOP ANTENNA .....	7
AUX LINE-IN CONNECTION .....	7
CONNECTING AC POWER SUPPLY .....	8
ACTIVATING THE REMOTE CONTROL .....	8
REPLACING THE REMOTE CONTROL BATTERY .....	8
BATTERY PRECAUTIONS .....	8
RADIO OPERATION .....	9
LISTENING TO THE RADIO .....	9
TO PRESET CHANNELS .....	10
TO RECEIVE PRESET STATIONS .....	10
HD RADIO™ MULTICAST CHANNELS (FM ONLY) .....	10
SPECIAL INFORMATION ABOUT DELAY IN THE HD RADIO™ SYSTEM .....	11
RBDS (RADIO BROADCAST DATA SYSTEM) .....	11
iTunes Tagging .....	12
TO STORE SONG TAG(S) .....	12
PURCHASING SONG(S) WITH ITUNES .....	12
AUX OPERATION .....	13
iPod ADAPTORS .....	13
DOCKING YOUR IPOD .....	14
DOCKING YOUR IPHONE .....	15
CONNECTING THE S-VIDEO (FOR IPOD VIDEO OUTPUT) .....	16
GENERAL SET UP .....	16
FOR PHOTO VIEW (FOR IPOD WITH COLOR DISPLAY ONLY – EXCLUDING IPOD NANO) .....	16
CONNECTING THE S-VIDEO (FOR IPHONE VIDEO OUTPUT) .....	16
FOR VIDEO VIEW (FOR IPHONE WITH VIDEO ONLY) .....	16
USING HEADPHONES (NOT INCLUDED) .....	17
CLOCK SETTING .....	17
SETTING THE TIME .....	17
SETTING THE ALARM (S) .....	18
CLOCK LIGHT OPERATION .....	18
ALARM OPERATION .....	19
WAKE TO RADIO, IPOD OR ALARM .....	19
SNOOZE OPERATION .....	19
SLEEP OPERATION .....	20
SETTING SLEEP TIMER .....	20
ADJUSTING THE SLEEP PERIOD .....	20
SLEEP AND WAKE TO BUZZER/iPod/RADIO .....	20
CARE AND MAINTENANCE .....	21
CLEANING THE UNIT .....	21
SPECIFICATIONS .....	21
TROUBLESHOOTING GUIDE .....	22
SERVICE .....	23

## WELCOME

Thank you for purchasing the JENSEN JIMS-525i HD Radio™ System.  
Before operating the unit, please read this manual thoroughly and retain it for future reference.

## PROTECT YOUR FURNITURE!!

This system is equipped with non-skid rubber 'feet' to prevent the product from moving when you operate the controls. These 'feet' are made from non-migrating rubber material specially formulated to avoid leaving any marks or stains on your furniture. However certain types of oil based furniture polishes, wood preservatives, or cleaning sprays may cause the rubber 'feet' to soften, and leave marks or a rubber residue on the furniture.

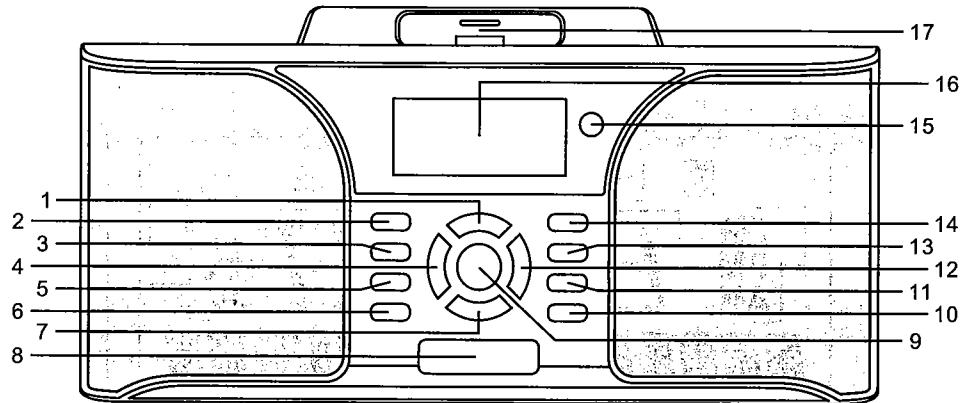
To prevent any damage to your furniture we strongly recommend that you purchase small self-adhesive felt pads, available at hardware stores and home improvement centers everywhere, and apply these pads to the bottom of the rubber 'feet' before you place the product on fine wooden furniture.

## ABOUT THIS MANUAL

Instructions in this manual describe using the controls on the remote. You can also use the controls on the main unit if they have the same or similar names as those on the remote.

## LOCATION OF CONTROLS

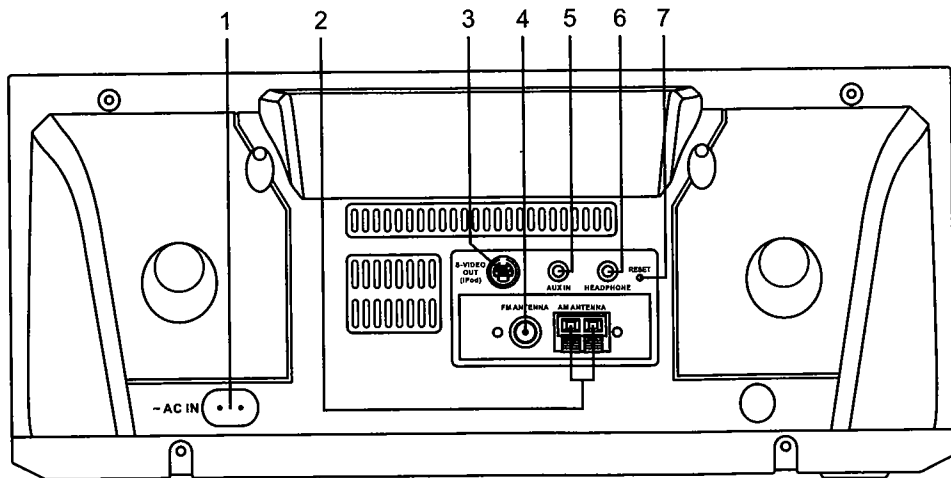
### Front View



- |                                       |                                     |
|---------------------------------------|-------------------------------------|
| 1. Volume + Button                    | 10. ALARM 2 Button                  |
| 2. STANDBY/ON Button                  | 11. ALARM 1 Button                  |
| 3. EQ Button                          | 12. Skip ► Forward/Tuning Up Button |
| 4. Skip ◀ Backward/Tuning Down Button | 13. SLEEP Button                    |
| 5. FUNCTION Button                    | 14. SET/FM MODE Button              |
| 6. BAND Button                        | 15. Remote Sensor                   |
| 7. Volume – Button                    | 16. Display                         |
| 8. SNOOZE/LIGHT Button                | 17. iPod Connector and Docking Bay  |
| 9. Play/Pause ► / iTunes® Tag Button  |                                     |

# LOCATION OF CONTROLS (Continued)

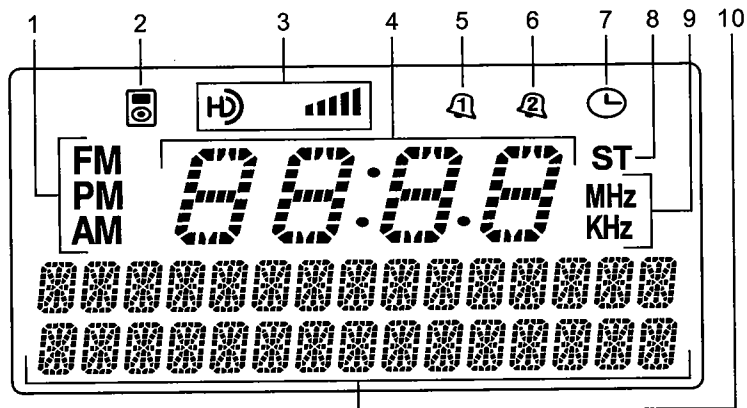
## Rear View



- 1. AC INPUT SOCKET
- 2. AM Antenna Connector
- 3. S-VIDEO Output (5<sup>th</sup> Gen iPod)
- 4. FM Antenna Connector

- 5. AUX LINE-IN Jack
- 6. HEADPHONE Jack
- 7. RESET Switch

## Display Unit



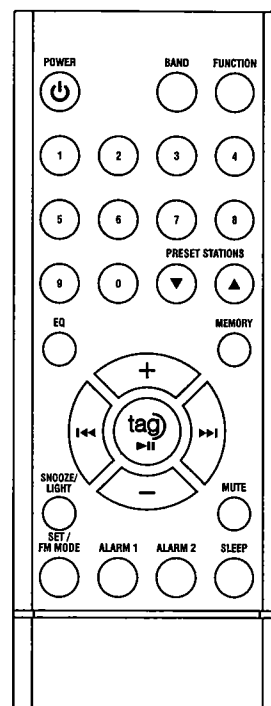
- 1. Band/AM-PM Indicator
- 2. iPod Icon
- 3. HD Radio™ Icon
- 4. Time/Frequency Reading
- 5. ALARM 1 Indicator

- 6. ALARM 2 Indicator
- 7. SLEEP Indicator
- 8. FM STEREO Indicator
- 9. Frequency Unit
- 10. RBDS Messages/FUNCTION Indicator

## LOCATION OF CONTROLS (Continued)

### Remote Control Section

<b>POWER</b>	Turn the Radio On/Off
<b>BAND</b>	Select AM/FM Band
<b>FUNCTION</b>	Selects Radio, iPod or Aux Modes
<b>0 – 9</b>	Numeric buttons
<b>PRESET STATIONS ▾</b>	Memory Stations Down
<b>PRESET STATIONS ▲</b>	Memory Stations Up
<b>EQ</b>	Equalizer Options
<b>MEMORY</b>	Program Preset Stations
<b>+ , -</b>	Volume Up and Down
<b>▶  </b>	Play/Pause/ iTunes® Tag
<b>▶▶</b>	Skip Forward/Tuning Up
<b>◀◀</b>	Skip Backward/Tuning Down
<b>SNOOZE/LIGHT</b>	Silences the Alarm Temporarily/ Switch Backlight On/Off
<b>MUTE</b>	Mute the System Sound
<b>SET/FM MODE</b>	Set Time/Select FM ST or MONO
<b>ALARM 1</b>	Set Alarm 1
<b>ALARM 2</b>	Set Alarm 2
<b>SLEEP</b>	Set Sleep Timer On



## GETTING STARTED

### Unpacking the HD Radio™ Receiver

Please save all the original packaging. It provides the safest way to transport your unit.

**Note:** This HD Radio™ Receiver is not designed for automotive use.

**NOTE:** The JiMS-525i is not magnetically shielded and may cause color distortion on the screen of some TVs or video monitors. To avoid this, you may need to move the unit further away from the TV or monitor if unnatural color shifts or image distortion occurs.

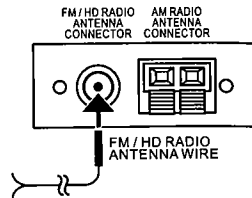
### Connecting the FM Antenna Wire (included)

1. Push the connector plug on the end of the antenna wire onto the FM Antenna Connector at the rear of the radio.
2. Straighten out the Antenna to its full length and orient the wire for the best reception.

## GETTING STARTED (Continued)

### Connecting FM / HD Radio™ Receiver Antenna / to a Cable Radio Signal

This Radio's FM Antenna Connector is a standard connector that will accept either the FM Antenna wire (included) or the cable FM feed from most cable systems that provide FM programming. To connect the included FM Antenna wire, slide the black plastic end of the antenna wire onto the center post of the antenna connector on the back of the unit. To connect your Radio to the FM signal available from some cable TV providers, contact your cable TV provider for assistance and also to find out if HD Radio™ broadcast signals are available through the cable line. As of the writing of this manual, HD Radio™ signals are not being rebroadcast via cable providers.



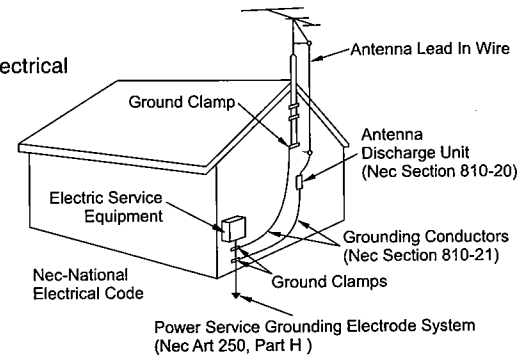
Be sure that the installation includes a splitter that will filter the signal to prevent any re-emission of the TV spectrum through the Radio, so that only the FM band, not the cable TV signal, is transmitted to the Radio.

### Antenna Grounding

Example of antenna grounding, per the National Electrical Code, ANSI/NFPA 70.

### Notice for Cable TV System Installer

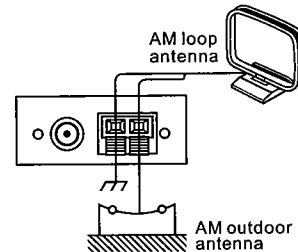
Please make note of Article 820-40 of the NEC (of USA) that provides guidelines for proper grounding. In particular, this standard specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as is practical.



### Connecting the AM Loop Antenna

If AM reception is weak for improvement connect the provided Loop Antenna as describe below:

1. Push to open the 2 receptacles of the AM antenna terminals and insert 2 open-end wires of the AM loop antenna into them.
2. Release the 2 AM antenna terminal handles to hold the AM loop antenna wires in place.
3. Orient the AM loop antenna for the best reception.



### AUX LINE-IN Connection

Connect one end of the Audio line cable (Included) to the AUX Input jack at the back of the Radio and the other end of the Audio line cable to your external audio player, such as a CD, MP3 etc.

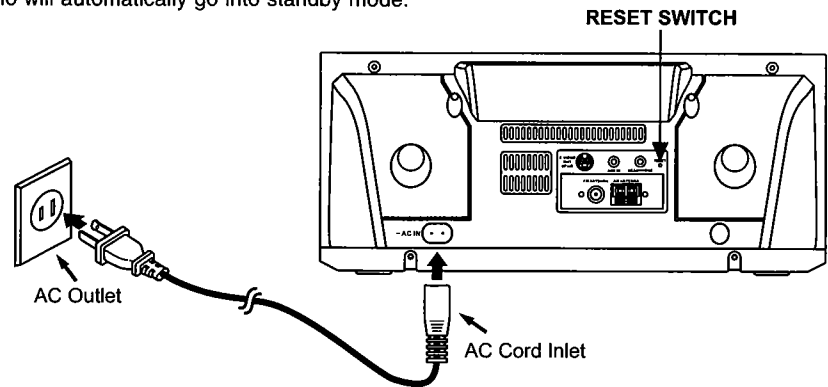
## GETTING STARTED (Continued)

### Connecting AC Power Supply

- This JiMS-525i HD Radio™ System operates from AC120V ~ 60Hz line power supply.
- The Remote Control operates on 1 Lithium battery, CR2025 (Included).

Insert the AC Cord Inlet into the AC cord socket on back of the Radio and the other end into a standard 120V AC outlet as shown in the diagram below.

The Radio will automatically go into standby mode.



### Remark:

In the event of a malfunction due to electrostatic discharge (ESD), reset the unit by pressing the RESET switch located on the back of the main unit with a ballpoint pen or similar object.

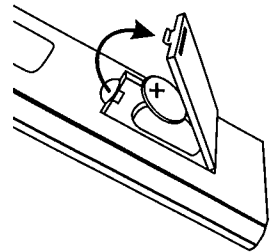
### Activating the Remote Control

- To activate the Remote Control, remove the protective film.
- Point remote control toward the front of the main unit. The effective range of the remote is about 19 ft from the remote sensor and within an angle of about 45° from the front of the unit.

### Replacing the Remote Control Battery

Please replace your battery if the operating distance of the Remote Control drops drastically.

1. Remove the battery cover.
2. Install one new CR2025 Lithium battery into the battery compartment as shown in the figure on the right.
3. Replace the cover.



**Caution:** The battery may leak or explode if incorrectly installed.

### Battery Precautions

Follow these precautions when replacing the battery in this device.


1. Use only the size and type of battery specified.
2. Be sure to follow the correct polarity when installing the batteries as indicated next to the battery compartment. Reversed battery may cause damage to the device.
3. If the device is not to be used for a long period of time, remove the battery to prevent damage or injury from possible battery leakage.
4. Do not try to recharge. The battery is not intended to be recharged and can overheat and rupture. (Follow battery manufacturer's directions.)
5. Do not dispose of battery in fire, battery may explode or leak.

## RADIO OPERATION

The following procedures can be accomplished by using either the remote or the controls on the main unit.

### Listening to the Radio

**Note:** When entering the Radio function mode, the words "PLEASE WAIT TO TURN ON RADIO" will appear first on the bottom row of the Display and then the Band and Frequency Reading will be shown in the Display after one or two seconds.

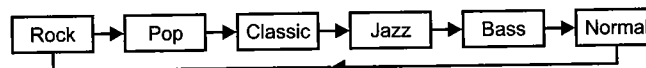
1. Press the  Button to turn on the unit.
2. Press the FUNCTION Button to operate the unit in radio mode.



TO:	PRESS:
Switch between AM/FM band	BAND Button repeatedly
Select FM MONO or ST mode	SET Button repeatedly
Scan radio station automatically	⏪ or ⏩ Hold Buttons for 1 second
Stop auto-tuning	⏪ or ⏩ Buttons again
Scan radio station manually	⏪ or ⏩ Buttons repeatedly
Control the volume	VOLUME + or – Buttons
Adjust the EQ	EQ Button repeatedly until the desired EQ shown in the Display
Stop output from the speakers	MUTE Button once
Resume output from the speakers	MUTE Button again

**Note:**

1. Frequency reading will change to the time 1 minute after the system has entered the radio function mode. The FM Stereo Indicator will stay on in the Display in FM stereo mode.
2. To check the station frequency, press the SET/FM MODE Button once and again in order to keep the station in stereo mode. Station frequency will be displayed for about 1 minute and revert to current time again.
3. When listening to an FM station, fully extend the antenna to insure maximum tuner sensitivity.
4. Automatic tuning depends on the signal strength of the broadcasting station, so weak stations are sometimes skipped. Tune manually to find the weak stations. With stronger stations, the tuner may stop before it reaches optimum setting for that station. Adjust manually for the best reception if needed.
5. For FM reception, the Radio provides FM MONO/STEREO selection. In stereo mode, the unit will automatically switch to stereo when a strong FM stereo broadcast is received and will indicate "ST" in the Display.
6. To receive a weaker (noisy) FM station, press the SET/FM MODE Button to switch to MONO mode. The reception may improve, but the sound heard is monaural (MONO).
7. The sound equalization can be adjusted for optimum sound reproduction depending on the style of music you are playing. By pressing the EQ button, you can switch between ROCK, POP, CLASSIC, JAZZ, BASS or NORMAL equalization to suit your taste.



## RADIO OPERATION (Continued)

### To Preset Channels

This Radio is equipped with 10 preset memories for AM and 20 preset memories for FM. Once they are preset, they can be instantly accessed by keying in the preset channel using the Numeric Buttons or pressing the ▲ or ▼ Buttons on the Remote Control.

1. Press ⏻ Button to turn on the unit.
2. Press the FUNCTION Button to switch the unit into radio mode.
3. Press the BAND Button to select AM or FM band as desired.
4. Tune to a desired station.
5. Press the MEMORY Button. Channel Indicator "01" appears and blinks.
6. While the Channel Indicator is blinking, press the ▲ or ▼ Buttons to select the desired preset channel.
7. Press the MEMORY Button again to confirm when the desired preset channel appears in the Display.
8. Tune to another station and repeat steps 5 to 7 to store a new station in another preset channel.

### To Receive Preset Stations

1. Press ⏻ Button to turn on the unit.
2. Press the FUNCTION Button to operate the unit in the radio mode.
3. Press the BAND Button to select the AM or FM band as desired.
4. Press the ▲ or ▼ Buttons or key in the preset channels using the NUMERIC Buttons to select the preset channels.

**Note:** HD Radio™ Multicast Channels (HD2, HD3, etc) can be added to the preset memory locations for easy access, but there may be a delay before sound is heard when accessing the channels from memory. See the section below "Special Information about Delay in the HD Radio™ System" for more information on why this delay occurs.

### HD Radio™ Multicast Channels (FM Only)

Together with digital sound quality, HD Radio™ technology gives broadcasters the opportunity to offer more than one programming channel simultaneously using their existing frequency on the radio tuning buttons.

If the HD Radio™ Receiver recognizes an HD Radio channel, the HD logo starts blinking until the signal is tuned in. After the HD Radio™ Receiver is tuned to an HD channel, CH1 will indicate the existence of multicast services. Use the ▲ or ▼ Buttons to select the multicast channels (i.e. CH2).

If you are listening to an HD Radio™ Multicast Channel (HD2, HD3, etc) and turn the radio power off or switch to either iPod or Aux modes, the radio will default back to the main non-HD radio station when the power is turned on again or if you switch back to the radio function. Example: You are listening to "97.9FM HD2" and turn the power off or change to iPod or Aux mode. When you turn the power back on or switch back to the radio mode, the station will be the 97.9FM and not the HD2 multicast channel. If an HD signal is detected the station will automatically switch to 97.9FM HD1, but you will manually need to change to 97.9FM HD2 if this is the channel you want to listen to again.

## RADIO OPERATION (Continued)

### **Special Information about Delay in the HD Radio™ System**

Digital systems inherently produce a delay in audio. To overcome such delay, HD Radio™ broadcasting uses a station's current analog signal to ensure fast tuning of an AM or FM station. After an estimated 5 seconds, the audio will change from analog to digital HD Radio™ broadcasting.

If the change is smooth, the radio station will implement the HD Radio™ broadcast correctly. But if the station has no smooth change, you will experience a jump in content of an estimated 5 seconds. The HD Radio™ Receiver is not a problem. It is an HD Radio™ broadcaster's implementation problem which could be corrected by the station through time.

Today's analog is only present on the main channel. If you tune directly to a station's multicast channel (CH2), there will have a delay of about 5 seconds before audio or content is heard. This operation is normal.

### **RBDS (Radio Broadcast Data System)**

This Radio supports RBDS, Program Identification and Radio Text. This function allows a radio station to transmit free-form, static textual information. For example, station slogans are synchronized with the programming and the title and artist of currently-playing songs are displayed along with the radio program.

