

***Emerson***<sup>®</sup>

***HOME AUDIO SYSTEM  
with 3 CD CHANGER  
and DIGITAL AM/FM RECEIVER***



***OWNER'S MANUAL***

***MS3105***

Visit our web site at [www.emersonradio.com](http://www.emersonradio.com)





## CAUTION

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT USE THIS PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE. TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



The lightning flash with arrow-head symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated 'dangerous voltage' within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

### CAUTION

RISK OF ELECTRIC SHOCK  
DO NOT OPEN

WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK), NO USER SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## IMPORTANT SAFETY INSTRUCTIONS

- 1.) Read these instructions.
- 2.) Keep these instructions.
- 3.) Heed all warnings.
- 4.) Follow all instructions.
- 5.) Do not use this apparatus near water.
- 6.) Clean only with dry cloth.
- 7.) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8.) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9.) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10.) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11.) Only use attachments / accessories specified by the manufacturer.
- 12.) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 13.) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 14.) This appliance shall not be exposed to dripping or splashing water and no object filled with liquids such as vases shall be placed on the apparatus.
- 15.) Do not overload wall outlet. Use only power source as indicated.
- 16.) Use replacement parts as specified by the manufacturer.
- 17.) The product may be mounted to a wall only if recommended by the manufacturer.
- 18.) Upon completion of any service or repairs to this product, ask the service technician to perform safety checks.



## BEFORE WE BEGIN

Thank you for purchasing this Emerson audio product. The Emerson brand is your assurance of quality, performance and value.

Our engineers have included many useful and convenient features in this product. Please be sure to read this Owner's Manual completely to make sure you are getting the maximum benefit from each feature.

This product was manufactured using the highest quality components and standards of workmanship. It was tested by Emerson inspectors and found to be in perfect working order before it left our factory. However, there is always the chance that some problem may occur because of rough handling during shipment to the retail store or to the final consumer.

If, after reading this Manual, you experience any problems with the operation of this product, please refer to the instructions for obtaining service at the end of this Manual. Emerson and Emerson retailers are committed to your satisfaction.

Once again, thanks for purchasing this Emerson audio product.

For future reference, record the serial number in the space provided.

**Model No: MS3105**

**Serial No:** \_\_\_\_\_



## IMPORTANT NOTES

- Avoid installing this unit in places exposed to direct sunlight or close to heat radiating appliances such as electric heaters, on top of other stereo equipment that radiates too much heat, places lacking ventilation or dusty areas, places subject to constant vibration and/or humid or moist areas.
- Do not attempt to clean this unit with chemical solvents as this might damage the finish. Use a clean dry cloth.
- Operate controls and switches as described in the manual.
- Before turning 'On' the power, make certain that power cord is properly installed.
- Store your CDs, in a cool area to avoid damage from heat.
- When moving the set, be sure to first disconnect the power cord.

### CLASS 1 LASER PRODUCT

CLASS 1 LASER PRODUCT  
APPAREIL À LASER DE CLASSE 1  
PRODUCTO LASER DE CLASE 1

CAUTION  
INVISIBLE LASER RADIATION  
WHEN OPEN AND INTERLOCKS  
DEFEATED.  
AVOID EXPOSURE TO BEAM



**This product contains a low power Laser Device.**

### FCC INFORMATION

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

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.



## PREPARATION FOR USE

### UNPACKING AND SET-UP

- Carefully remove the main unit, speakers, and remote control from the carton, and remove all packing materials from the components.
- Remove any descriptive labels or stickers from the front panel of the main unit. Do not remove any labels or stickers on the back panel of the main unit or the speakers.
- Carefully remove any small strips of tape that may have been used to hold the CD door closed during shipment.
- Unwind the AC power cord on the main unit and extend it to its full length.
- Unwind the lead wire FM antenna on the back of the main unit and extend it to its full length.
- Please save the carton and packing materials in case it ever becomes necessary to return your unit for service. The original carton and packing materials are the only way to protect your unit from damage in transit.
- Place the system on a stable, level shelf, table, desk or stand, out of direct sunlight, convenient to a 120V 60Hz AC outlet, and away from sources of excess heat, dust, moisture or humidity.

### POSITIONING THE MAIN UNIT AND SPEAKERS

The main unit and the speakers are designed to be used on a shelf, desk, table or stand. The main unit is shipped with two plastic legs installed for added stability when the system is used on a flat surface. These two plastic legs allow the main unit to “lean backward” slightly and prevent it from tipping forward when the CD door is opened.

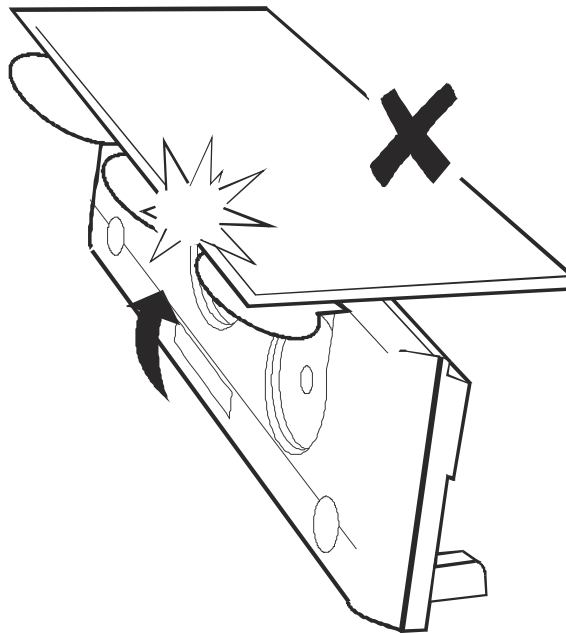
***IMPORTANT: THESE TWO PLASTIC LEGS MUST REMAIN ON THE MAIN UNIT FOR TABLE-TOP, DESK-TOP, OR SHELF OPERATION.***



## PROTECT YOUR FURNITURE

This model 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.

**NOTE:** *If this system is to be used on a bookshelf, or inside a cabinet, be sure to allow at least 3 inches clearance between the top of the main unit and the shelf above the unit so that the CD door can open fully without interference. If the CD door encounters an obstruction as it is opening, the door will close automatically.*



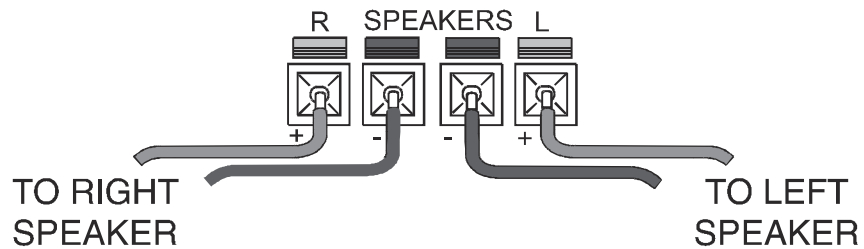
**Do not block the ventilation openings on the top or back of the main unit.**



## SPEAKER CONNECTIONS

Connect the speakers to the red (+) and black (-) terminals on top of the unit as shown below.

(Press the red (+) or black (-) terminal tab, insert wire, release tab to hold wire in place.)



The speakers may be placed close to the main unit or as far apart as the cables will allow. Please leave a gap of at least 1/4" between the main unit and speakers to prevent any vibration in the speakers from causing the CD player to skip.

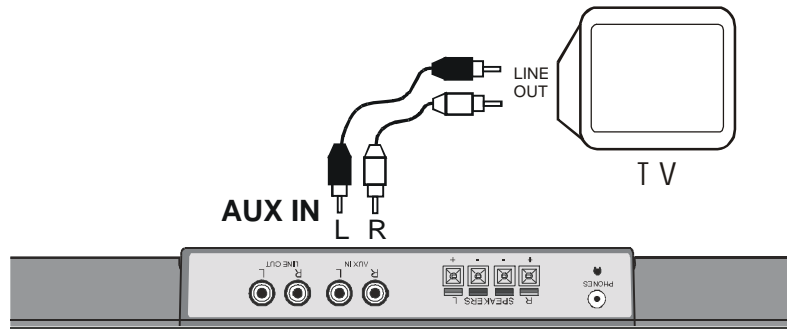
*NOTE: The speakers are not magnetically shielded. They should not be placed directly on top of, or next to, a TV set. The magnets in the speakers could cause color distortion on the TV screen if the speakers are too close to the TV.*

The entire system may also be wall-mounted if desired. Wall-mounting instructions can be found at the end of this manual.

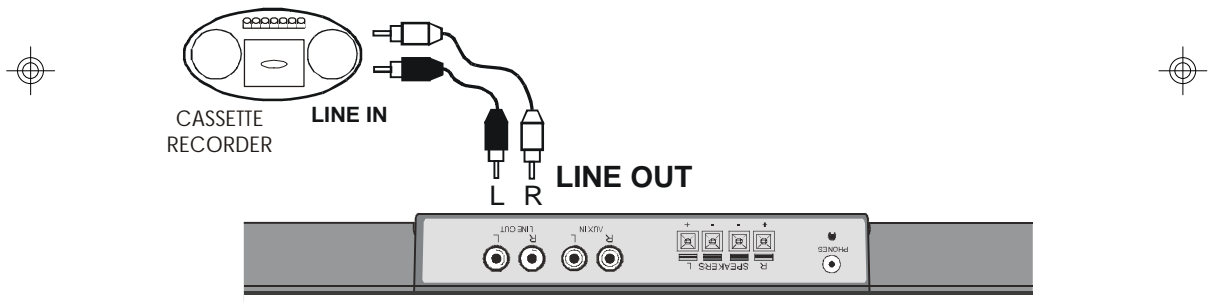


## CONNECTING TO EXTERNAL AUDIO SOURCES

- Connect your playback\* equipment (eg. MiniDisc or cassette player) to the **AUX IN** jacks.



- Connect your recording equipment (eg. MiniDisc or cassette recorder) into the **LINE OUT** jacks.



\* Other examples of playback equipment include your TV, video recorder, DVD player or satellite receiver, or your computer or games console.

Always refer to the equipment manufacturer's instructions.





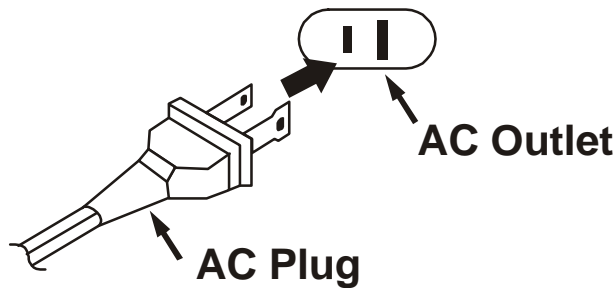
## POWER SOURCE

This system is designed to operate on 120V AC 60Hz power supply only. Connecting this system to any other power source may cause damage to the system and such damage is not covered by your warranty.

Make sure that you connect this system to an AC outlet that is always “live”. Do not connect this system to an AC outlet that is controlled by a wall switch.

- 1.) Unwind the AC Power Cord completely.
- 2.) Insert the plug into any convenient 120V 60Hz AC outlet.


**NOTE:** This unit has a polarized AC plug with one wide blade and one narrow blade. This plug will only fit into a matching polarized AC outlet. This is a safety feature to reduce the possibility of electric shock. If this plug will not fit in your AC outlet, you probably have an outdated non-polarized outlet. You should have your outdated outlet changed by a qualified, licensed electrician. Do not file the wide blade on the plug, or use an adapter to make the plug fit into your outlet. This defeats the safety feature and could expose you to electric shock.

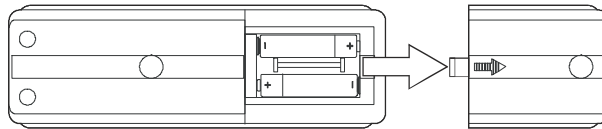




## INSTALLING REMOTE CONTROL BATTERIES

The remote controller requires 2 “AAA” batteries (not included). Please use a well-known brand of alkaline batteries for longest life and best performance.

Remove the remote control battery compartment cover by sliding the cover in the direction of the  arrow.



Insert 2 “AAA” alkaline batteries into the compartment. Be sure to observe the polarity markings inside the battery compartment. If the batteries are inserted incorrectly the remote control will not operate.

The remote control must be pointed at the remote sensor on the lower part of the front panel. The effective operating range of the remote control is approximately 15 feet. The effective operating angle is approximately 15 degrees to the left or right of ‘dead center’.

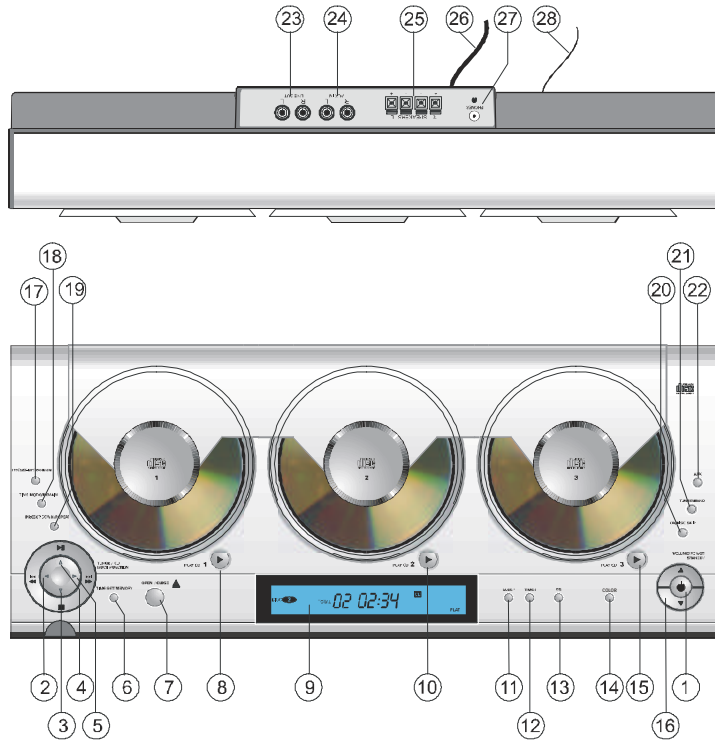
When the operation of the remote control becomes intermittent, or the operating range of the remote is reduced, replace the batteries.

### BATTERY PRECAUTIONS

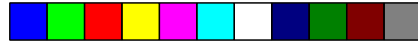
Follow these precautions when using batteries in this device:

1. Use only the size and type of batteries specified.
2. Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment. Reversed batteries may cause damage to the device.
3. Do not mix different types of batteries together (e.g. Alkaline and Carbon-Zinc) or old batteries with fresh ones.
4. If the device is not to be used for a long period of time, remove the batteries to prevent damage or injury from possible battery leakage.
5. Do not try to recharge batteries not intended to be recharged; they can overheat and rupture. (Follow battery manufacturer’s directions.)

## LOCATION OF CONTROLS AND INDICATORS

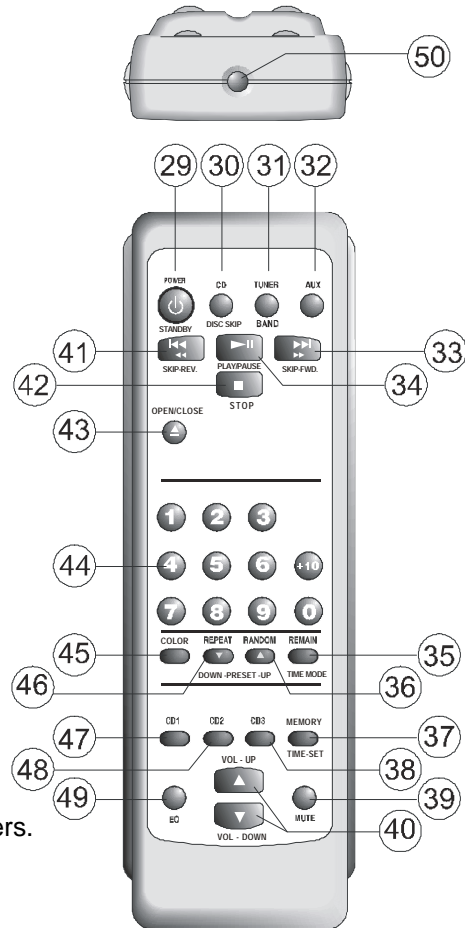


- |  |  |
|--|--|
| 1.) <b>POWER/STANDBY</b> Button.               | 15.) <b>PLAY CD 3</b> Button.          |
| 2.) <b>◀◀</b> Skip-Rev/Search Button.          | 16.) <b>VOLUME ▲Up/▼Down</b> Buttons.  |
| 3.) <b>■</b> CD Stop Button.                   | 17.) <b>PRESET-UP/RANDOM</b> Button.   |
| 4.) <b>▶▶</b> Skip-Fwd/Search Button.          | 18.) <b>TIME MODE/REMAIN</b> Button.   |
| 5.) <b>⏸</b> CD Play/Pause Button.             | 19.) <b>PRESET-DOWN/REPEAT</b> Button. |
| 6.) <b>TIME-SET/MEMORY</b> Button.             | 20.) <b>CD/DISC SKIP</b> Button.       |
| 7.) CD Door <b>▲</b> <b>OPEN/CLOSE</b> Button. | 21.) <b>TUNER/BAND</b> Button.         |
| 8.) <b>PLAY CD 1</b> Button.                   | 22.) <b>AUX</b> Input Button.          |
| 9.) Multi-function LCD Display.                | 23.) <b>LINE OUT L/R</b> Jacks.        |
| 10.) <b>PLAY CD 2</b> Button.                  | 24.) <b>AUX IN L/R</b> Jacks.          |
| 11.) <b>SLEEP</b> Button.                      | 25.) <b>SPEAKERS</b> Terminals.        |
| 12.) <b>TIMER</b> Button.                      | 26.) AC Power Cord.                    |
| 13.) <b>EQ</b> (Equalizer) Button.             | 27.) <b>PHONES</b> Jack.               |
| 14.) <b>COLOR</b> Button.                      | 28.) FM antenna wire.                  |



## REMOTE CONTROL

- 29.) **POWER/STANDBY** Button.
- 30.) **CD/DISC SKIP** Button.
- 31.) **TUNER/BAND** Button.
- 32.) **AUX** Input Button.
- 33.) **SKIP FWD** Button.
- 34.) **PLAY/PAUSE** Button.
- 35.) **REMAIN/TIME MODE** Button.
- 36.) **RANDOM/PRESET-UP** Button.
- 37.) **MEMORY/TIME-SET** Button.
- 38.) **CD3** Play Button.
- 39.) **MUTE** Button.
- 40.) **VOL ▲UP/▼DOWN** Buttons.
- 41.) **SKIP REV** Button.
- 42.) **CD STOP** Button.
- 43.) CD Door **OPEN/CLOSE** Button.
- 44.) CD Track / TUNER Channel numbers.
- 45.) **COLOR** Button.
- 46.) **REPEAT/PRESET-DOWN** Button.
- 47.) **CD1** Play Button.
- 48.) **CD2** Play Button.
- 49.) **EQ** (Equalizer) Button.
- 50.) Remote Transmitter.




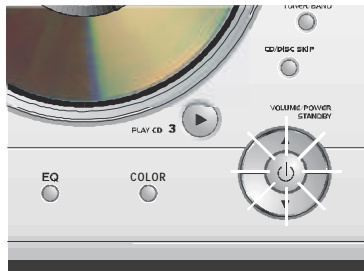


## OPERATING INSTRUCTIONS

### TURNING THE SYSTEM 'ON'

Plug the unit into the 120V 60Hz AC outlet.

At the front of the unit, the light within the **POWER/STANDBY** button  will be red to indicate that the unit is in standby (standby means plugged-in but not switched on).




Main LCD display lights up and automatically shows self-demonstration mode if,

- Clock is not set.
- The unit is plugged in AC power the first time, or
- The AC power has been interrupted.

The display lighted colors change in sequence:



Switch the unit on by pressing the **POWER/STANDBY**  button on the front panel or the remote control. The display self-demonstration mode stops.

The unit is now ready to use.

### COLOR Button

You may turn the color-changing feature "On" or "Off" by pressing the **COLOR** Button on front panel or remote control.

(To switch the unit back to standby, simply press  button again.)



## SETTING THE CLOCK



Use the buttons on the unit's front panel to carry out this procedure.

1.) Press  **POWER/STANDBY** button to switch the unit "On".



2.) Press the **AUX** button.

(Note the time setting flashes in the center of the display.)



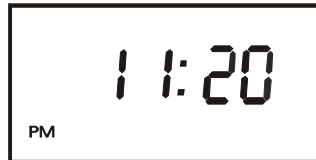
3.) Press the **TIME-SET/MEMORY** button so that the hour setting flashes, then press  or  button to set the correct hour (making sure the flashing A Mor P M is correct).



4.) Press **TIME-SET/MEMORY** so that the minute setting flashes, then press  or  button to set the correct minute.



5.) Press **TIME-SET/MEMORY** to finish clock setting.




Once the time has stopped flashing, the clock is set.

**NOTE:** *If ever you find the display self-demonstration mode comes on, this means that the clock needs to be re-set (possibly due to the unit having been disconnected from the AC power outlet, or a power interruption).*



## GENERAL CONTROLS

Switch the unit “On” or “Off” by pressing the  button.

### Selecting The Sound Source

To select the sound source you wish to listen to, press:

- **CD/DISC SKIP** to listen to compact disc, or
- **TUNER/BAND** to listen to radio, or
- **AUX** to listen to auxiliary equipment connected to the **AUX IN** jacks.

### Volume Controls


To adjust the volume, use **VOLUME ▲UP/▼DOWN** Buttons.

To shut off the sound temporarily, press **MUTE** on the remote (press again to restore sound).



(Note that mute is indicated by the **MUTE** indicator appears in display.)

### Headphones

For private listening, plug a pair of stereo headphones (not included) into the **PHONES**  jack on top of the unit.

When headphones are plugged-in, the speakers are switched off automatically.

#### **NOTE:**

*Always reduce the volume level before you put the headphones on. Then gradually increase the volume to a comfortable level.*




### **EQ (Graphic Equalizer) Button**

The graphic equalizer (**EQ**) adjusts the character of the sound. It provides a range of 4 tonal shapes: **ROCK**, **CLASSIC**, **POP** and **FLAT**.

Press **EQ** repeatedly to set the graphic equalizer according to your taste or the style of music being played. The selected setting:

**ROCK**, **CLASSIC**, **POP** or **FLAT** appears at the bottom of the display.

### **Standby (Power Off)**

To switch off to standby, press the  button.

Note\* - This unit is intended to be switched off to **standby**. If you unplug the unit, the clock setting will be incorrect when you switch on again. Additionally, any timer setting will be lost.







## LISTENING TO THE RADIO

### Tuning-in A New Radio Station

Pressing **TUNER/BAND** button selects radio operation. The display indicates the tuning frequency. At the left of the display, the band is indicated: **FM** or **AM**. Pressing the **TUNER/BAND** button changes the band.



After selecting the required band, you can tune to a radio station in either of the following ways:

### Automatic Tuning

- To search up or down the band for a station, hold in **◀◀** or **▶▶** button for 2 seconds then release. The tuner will search up or down until it finds a strong station and stop on that station. Repeat until you find the desired station.

### Manual Tuning

- To change frequency one step at a time, repeatedly press and release **◀◀** or **▶▶** button until the frequency of the desired station appears on the display.

You can keep any new station you've tuned-in by storing it in the memory.

(see following page)

*Note: For best FM reception, position the lead wire FM antenna for least interference.  
(Note if AM reception is poor, you may need to rotate the unit.)*



## Presetting Stations In The Tuner Memory

You can preset up to 40 stations (20 AM and 20 FM) in the tuner memory for immediate recall.

- 1.) Tune to the first station you wish to memorize using either the Automatic or Manual Tuning method described on page 16.

Example: FM 103.5 MHz.



- 2.) When the desired station frequency appears on the display, press the **TIME-SET/MEMORY** button on the front panel or remote control. The **MEMORY** indicator and Preset Memory (Channel) number "00" will flash in the display.



- 3.) While the **MEMORY** indicator is flashing, press the **PRESET UP/RANDOM** button on the front panel or remote control to advance the Preset Memory (Channel) number from "00" to "01".



- 4.) Then press the **TIME-SET/MEMORY** button again to enter the desired station in Preset Memory (Channel) number 01. The **MEMORY** indicator stops flashing and the display appears.





- 5.) Tune to the next station to be memorized, press the **TIME-SET/MEMORY** button, press the **PRESET UP/RANDOM** button to select Preset (Channel) number "02", and press the **TIME SET/MEMORY** button again.
  
- 6.) Repeat Step 5, selecting a different Preset (Channel) number each time, until you have entered up to 20 stations on one band, then press the **TUNER/BAND** button to select the other band and follow the same procedure to preset up to 20 stations on that band.

**NOTE:**

*You may also select the Preset (Channel) numbers directly by pressing the appropriate number buttons on the remote control while the **MEMORY** indicator is flashing.*

- *To select Preset (Channel) numbers 1 through 9, press the corresponding number buttons.*
- *To select Preset (Channel) numbers 11 through 19, press the "+10" button first and then appropriate number button.*
- *To select Preset (Channel) number 20, press the "+10" button twice, then press the "0" button.*



## Recalling Preset Stations

- 1.) Press the **TUNER/BAND** button to select the Tuner function and the desired band.
- 2.) Press the **PRESET UP/RANDOM** or **PRESET DOWN/REPEAT** buttons on the front panel or the remote control to select the desired Preset (Channel) number.

### **NOTE:**

*You may also select the Preset (Channel) numbers directly by pressing the appropriate number buttons on the remote control.*

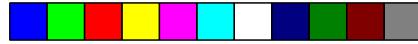
- *To select Preset (Channel) numbers 1 through 9, press the corresponding number buttons.*
- *To select Preset (Channel) numbers 11 through 19, press the “+10” button first and then appropriate number button.*
- *To select Preset (Channel) number 20, press the “+10” button twice, then press the “0” button.*

## Changing Preset Stations

To change any preset station simply enter a new station in the Preset (Channel) number that you wish to change. When the new station is entered in the memory the previously memorized station will be erased.

## TIME MODE/REMAIN Button

During Tuner operation the display will show the frequency of the radio station. To see the time press the **TIME MODE/REMAIN** button once on the front panel or remote control. The display will show the time for approximately 10 seconds and then change back to radio frequency automatically.



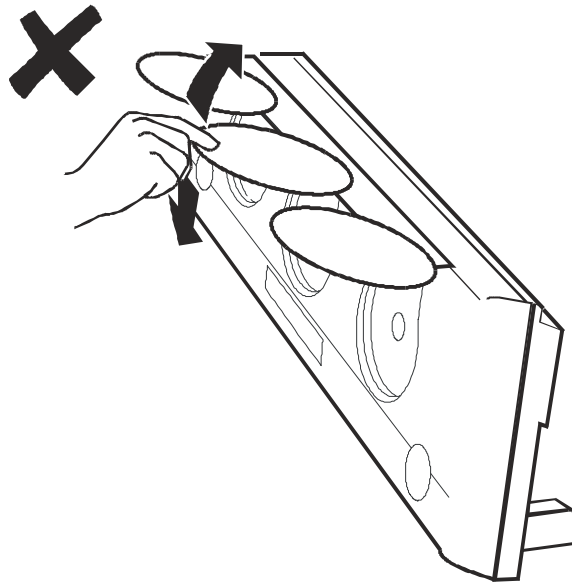
## PLAYING COMPACT DISCS

*This system can play normal CDs, and most Recordable CDs (CD-R), and Rewriteable CDs (CD-RW). However the playability of CD-R and CD-RW discs is dependent on the type of software used for 'ripping' and 'burning' the discs, and the quality of the blank discs used for recording. 100% playback compatibility cannot be guaranteed. This is not an indication of any problem with this system.*

### **IMPORTANT:**


*Never open or close the CD door rapidly by hand - doing so will damage the mechanism.*

*In an emergency situation (eg. an AC power failure) where you have no option other than to open or close the door by hand, do so **very slowly and very gently**. **APPLY ONLY LIGHT PRESSURE - NEVER USE FORCE ON THE DOOR.***






## Normal Playback

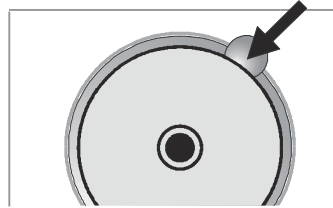
1.) Press the  **POWER/STANDBY** button to turn the system 'On'. The display and CD door lighting comes on.

2.) Press the **CD/DISC SKIP** button on the front panel or remote control to select the CD function. The display will show a series of flashing "dashes" (— — —) while the player searches for a disc, and then the words "no disc" will appear.

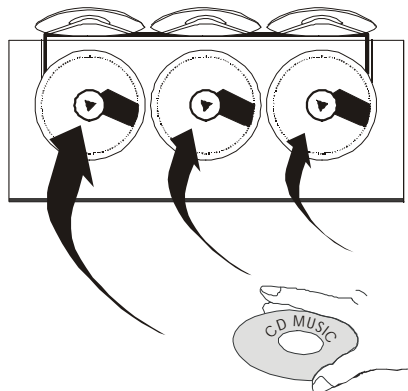


3.) Press the  **OPEN/CLOSE** button on the front panel or remote control to open the CD door.

**IMPORTANT: THIS SYSTEM IS SHIPPED WITH THREE (3) DUMMY PAPER "CDs" IN THE MECHANISM FOR DISPLAY PURPOSES ONLY. THESE DUMMY CDs MUST BE REMOVED AND DISCARDED BEFORE YOU CAN USE THE CD PLAYER. PLEASE REMOVE AND DISPOSE OF THEM NOW.**



4.) Insert up to 3 CDs in the mechanisms with the printed label side facing outward. Press down gently on each disc near the center hole to make sure that the discs are properly 'seated' on the spindles.





5.) Press the **▲ OPEN/CLOSE** button to close the CD door.

**Do not close the door by hand.** Each of the discs will spin momentarily and then the system will read the first disc and the display will show the total tracks and playing time of the first disc.

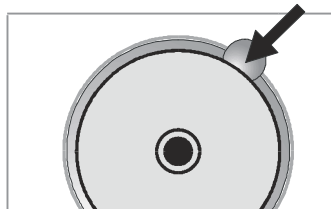


6.) Press the **▶II PLAY/PAUSE** button on the front panel or remote control to begin playback on the first disc. If you loaded more than one disc in the player you may also press the **CD1**, **CD2**, or **CD3** buttons on the front panel or remote control to begin playback on any of the discs in the player. Playback will begin on Track 1 and continue until the end of the disc. The display will show the elapsed playing time of each track as it plays. If there is more than one disc in the player, playback will continue until all tracks on all discs have been played, then the player will stop and the display will show the total tracks and playing time on the last disc.

7.) To stop playback at any time press the **■ STOP** button on the front panel or remote control. Playback stops and the display will show the total tracks and playing time on the disc that was playing.

## Removing Discs From The Player

When you are finished listening press the **■ STOP** button to stop playback if necessary and then press the **▲ OPEN/CLOSE** button to open the CD door. Place your finger in the cut-out at the edge of each CD compartment and gently lift the disc off the spindle.







## Immediate CD Playback





If you are listening to the radio or an auxiliary audio source you can begin immediate CD playback by pressing the **CD1**, **CD2**, or **CD3** buttons on the front panel or the remote control.

## Pause Control

To Pause momentarily during CD playback press the **PLAY/PAUSE**  button again. The sound stops and the time display flashes but the disc continues to spin. Press the **PLAY/PAUSE**  button once more to cancel pause and resume normal playback.



## Skip/Search ( / ) Controls

- During playback, to skip to higher or lower numbered tracks, repeatedly press the / buttons until the desired track number appears in the display. Playback will begin on the desired track.
- During playback, to quickly search forward or backward for a particular passage within a track, depress and hold the / buttons until you find the desired passage, then release the buttons. Normal playback will resume at that point.

## Direct Track Selection (Remote Control Only)

During CD playback you may also select a track by pressing the corresponding number button on the remote control.

- To select track numbers from 10 to 19 press the “+10” button once and then the appropriate number button.
- To select track numbers higher than 20, press the “+10” button twice, then press the appropriate number button.





### Repeat Playback

You can repeat all discs, one disc, or just one track. To select the mode you require, press **PRESET-DOWN/REPEAT** button until the top of the display indicates one of the following:

- All discs repeat**      ↶ **ALL DISC**
- One disc repeat**      ↶ **1 DISC**
- One track repeat**      ↶ **1**

To cancel repeat play, press **PRESET-DOWN/REPEAT** button until the repeat symbol ↶ disappears from the display.

### Random Playback

You can play tracks in random order (from one disc or all discs).

To select the mode you require, press **PRESET-UP/RANDOM** button until the display indicates one of the following:



To cancel random play, press **PRESET-UP/RANDOM** button until the word **RANDOM** disappears from the display.



## Programmed Playback

This system has a 60 track programmable memory that allows you to program up to 60 tracks on 3 discs for playback in any desired order.

*NOTE: YOU CANNOT PROGRAM THE PLAYER WHILE A DISC IS PLAYING. YOU MUST PRESS THE STOP ■ BUTTON TO STOP PLAYBACK BEFORE BEGINNING THE PROGRAM STEPS BELOW.*

- 1.) Load up to 3 discs in the player as usual. Close the CD door and wait until the display shows the total tracks and playing time of the first disc.



- 2.) Press the **TIME-SET/MEMORY** button to enter the Program mode. The display will show track number "00" and "P - 01" (program memory number 1), and the MEMORY indicator will be flashing.



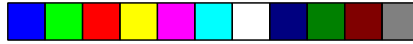
- 3.) Select the disc number which contains the first track to be programmed by pressing the **CD/DISC SKIP** button until the desired DISC number appears in the display. Example: Disc 3



- 4.) Press the Skip **⏮** or **⏭** buttons to select the first track to be programmed.

Example: Track 7





- 5.) When the desired disc and track numbers appear in the display press the **TIME-SET/MEMORY**



button again to enter that disc and track in Program Memory number 1. The track number display returns to "00" and the Program Memory number display advances to "P – 02".

- 6.) Repeat Steps 3, 4, and 5, selecting different disc and track numbers each time as desired until you have entered up to 60 tracks in the program memory. **CAUTION:** If the **STOP** ■ button is pressed before you finish programming the player exits the program mode and all previously stored information is erased.

- 7.) When you have entered all the desired tracks in the program memory press the **PLAY/PAUSE**



▶|| button to begin programmed playback. The tracks that you programmed will play in the desired order.

After the last programmed track has played the player stops but the program remains in the memory. Press the **PLAY/PAUSE** ▶||




▶|| to play the programmed sequence again. The programmed sequence remains in the memory even if you switch to the TUNER or AUX function, or shut the system 'Off'.

### Clearing The Program Memory

If a disc is playing press the **STOP** ■ button once to stop playback and then press the **STOP** ■ button again to clear the program memory. The program memory will also be cleared if the CD door is opened.



## Program Repeat Function



You can use the Program and Repeat functions together to continuously repeat the programmed sequence. After programming the desired sequence press the **PRESET-DOWN/REPEAT** button until the “↶ ALL DISC” indicator appears in the display, then press the **PLAY/PAUSE**  button to begin programmed repeat playback.

To cancel programmed repeat function press the **PRESET-DOWN/REPEAT** button until no “↶” indicator appears in the display, or open the CD door.



## Editing The Program

The player must be in the Stop mode to edit the program.

- To change a track, press **TIME-SET/MEMORY** button repeatedly until the required “P –” number is displayed.

Next, press  or  button to change the track number, then press **TIME-SET/MEMORY** button to store the change.

- To delete a track, press **TIME-SET/MEMORY** button repeatedly until the required “P –” number is displayed.

Next, press  or  button to change the track number to “00”, then press **TIME-SET/MEMORY** button to store the change.

- To add a track, press **TIME-SET/MEMORY** button repeatedly until track number “00” is displayed.

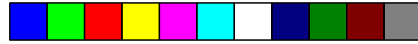
Next, use **CD/DISC SKIP** button and  or  buttons to select required disc and track number, then press **TIME-SET/MEMORY** button to store the change.



## Track and Time Displays

- The correct time is displayed when the system is in the **Standby** or **AUX** modes.
- In **TUNER** mode the radio frequency is displayed. Press the **TIME-MODE/REMAIN** button repeatedly to cycle the display as follows:  
Time Display ➡ Timer On setting ➡ Timer Off setting ➡ Radio Frequency.
- In **CD** play mode the track number and elapsed playing time are displayed. Press the **TIME-MODE/REMAIN** button repeatedly to cycle the display as follows:  
Remaining Time of the Track ➡ Remaining Time on the Disc ➡ Elapsed Time of the Track ➡ Time Display ➡ Timer On setting ➡ Timer Off setting ➡ Elapsed Time of the Track, etc., etc.





## TIMER OPERATION

The Timer facility allows you to set the unit to switch itself “On” and “Off” automatically, for example, to wake you up each morning.

While setting up the Timer, make sure you carry out each step within 5 seconds, otherwise the operation will time out and you will have to start again.

**NOTE:** During timer setup, always check the **AM/PM** indicator (to the left of the time) to ensure you make the correct settings.

- 1.) Select the radio station or CD you wish to play when the unit switches on.

(For CD this can be a programmed selection of tracks if desired.)

- 2.) Press **TIME MODE/REMAIN** button repeatedly until **TIMER ON** indicator flashes at the right of the display, then press **TIME-SET/MEMORY** button immediately.

The **switch-on time** (*hour* setting) will flash.

- 3.) Immediately press **◀** or **▶** buttons to set the hour (making sure the flashing **AM** or **PM** is correct), then press **TIME-SET/MEMORY** button.

The *minute* setting will flash.

- 4.) Immediately press **◀** or **▶** buttons to set the minute, then press **TIME-SET/MEMORY** button again.

- 5.) Press **TIME MODE/REMAIN** button repeatedly until **TIMER OFF** indicator flashes at the right of the display, then press **TIME-SET/MEMORY** button immediately.

The **switch-off time** (*hour* setting) will flash.

- 6.) Immediately press **◀** or **▶** buttons to set the hour, then press **TIME-SET/MEMORY** button.

The *minute* setting will flash.



7.) Immediately press **◀◀** or **▶▶** buttons to set the minute, then press **TIME-SET/MEMORY** button.

The “switch-on” and “switch-off” times have now been set. To check them at any time, press **TIME MODE/REMAIN** button repeatedly to step through the **TIMER ON** and **TIMER OFF** settings on the display.

8.) To activate the timer, press **TIMER** button (on the front panel) so that **TIMER** Indicator appears at the right of the display.

9.) Press **⏻ POWER/STANDBY** button to switch off the unit to Standby mode.

*Timer operation is now set. The unit will switch itself on and off at the set times, every day.*

**NOTE:** *If ever you find the display self-demonstration mode comes on, this means that the clock needs to be re-set (possibly due to the unit having been disconnected from the AC power outlet, or a power interruption).*

## Cancelling Timer Operation

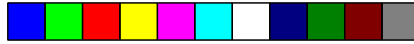
If you don't want the unit to switch itself on, for example at weekends, press **TIMER** button (on the front panel) so that the word **TIMER** is not displayed. (The timer settings are still retained for the next time you wish to activate the timer.)

To activate timer operation again, repeat steps 8 and 9 above.

## Sleep Timer

The unit has a sleep timer. Activating the sleep timer while you're listening to a radio station or CD will make the unit switch itself off after 90 minutes.

- To activate the sleep timer, press **SLEEP** button (on the front panel) so that **SLEEP** indicator appears on the display.
- Press and hold the **SLEEP** button to adjust 80, 70, 60, 50, 40, 30, 20, or 10 minutes of sleep time.
- To cancel the sleep timer, press **SLEEP** button so that the word **SLEEP** disappears.

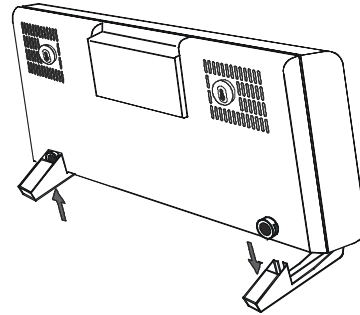


## WALL MOUNTING INSTRUCTIONS

**NOTE:** The plastic legs must be removed from the main unit before wall mounting.

To remove the legs, slide them downward as shown.

To re-attach the legs, slide the U-shaped cut-outs in the legs upwards over the round posts at the back of the unit. Make sure the legs are pushed up all the way.



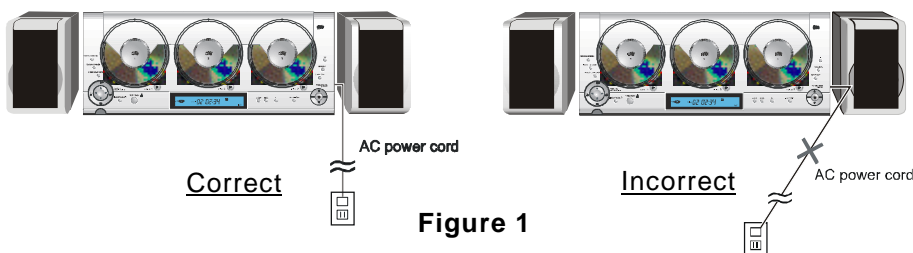
If you decide to wall mount your MS3105 audio system please read and carefully follow these instructions:

**NOTE:** Wall mounting hardware is not included. You should purchase the appropriate type of anchors for the wall where the unit will be mounted. (Solid-wall, Hollow-wall, etc.) Wall anchors are available at hardware stores and home improvement centers. Tools required: Electric drill, Hammer, Screwdriver.

### General Precautions and Recommendations

- When choosing a location for wall mounting remember that the main unit must be connected to an AC outlet. The AC power cord of the main unit should be able to hang straight down from the main unit to the AC outlet.

See Figure 1.

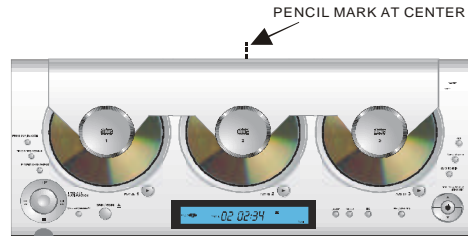


Connect the main unit to the AC outlet and position it against the wall in your desired location. Make sure that the plug remains firmly and full inserted into the outlet. There should be just enough slack in the power cord so that the plug can be easily removed from, and reconnected to the AC outlet.

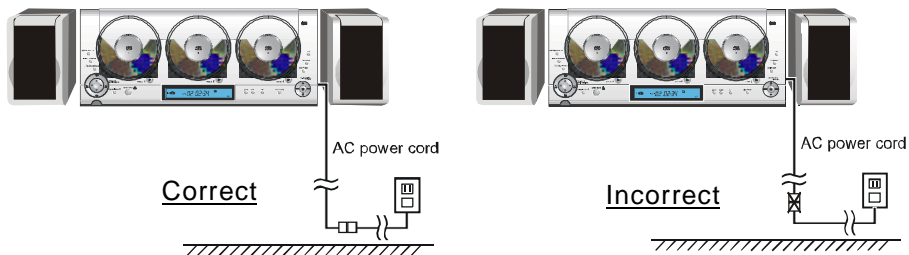




- Have someone hold the **main unit** against the wall in the desired location and make a pencil mark on the wall to indicate **center point** of the top edge of the cabinet.



- If there is no AC outlet directly below the desired mounting location you may use a UL approved extension cord. In this case you should allow the AC plug of the main unit to reach all the way to the floor and connect the extension cord on the floor, not above the floor. See Figure 2.



**Figure 2**

- Although all major functions of this system, including opening/closing the front cover, can be operated by the remote control, you must still load and unload your CD's manually. Therefore the main unit should be mounted at a height that is convenient and comfortable for changing discs.

**IMPORTANT:** The front cover requires 3" clearance to open fully. If you plan to mount the unit under a shelf, in a cabinet, etc, you must allow at least 3" clearance above the unit so that the door can open completely without obstruction. If the front cover encounters some obstruction as it is opening, the motor will reverse automatically and the door will close immediately.



## TEMPLATE INSTRUCTIONS

- 1.) Select the desired location for wall mounting after carefully reviewing the "**General Precautions and Recommendations**" of the wall mounting instructions.
- 2.) Tape the template to the wall, or other surface, in the desired location. Align the top edge of the template with the pencil mark you made on the wall. Be sure to allow at least 3" clearance above the main unit, for the CD door to open fully.
- 3.) Make sure that the template is level.
- 4.) Use an awl, ice pick, a nail or similar pointed tool, and push through the template to make a small starter hole in the wall surface as indicated by the "Drill Hole Here" marks. Then remove the template from the wall.
- 5.) **Before You Drill: Make sure that there are no water pipes, gas pipes, electrical wires or other obstructions or hazards behind the wall in your chosen mounting location. If you are not sure about this, and don't know how to check, perhaps you should consider having the system mounted by someone with the necessary experience.**
- 6.) Make sure that you are using the correct type of anchors for your wall. If the wall material is Sheetrock® (sometimes called wall-board, gypsum-board, or plaster-board) you can use plastic 'hollow-wall anchors'. If your wall is solid plaster, concrete, brick, or similar solid material, use the appropriate type of 'solid-wall anchors'. If your wall is solid wood, you may be able to use round-head wood screws without anchors.

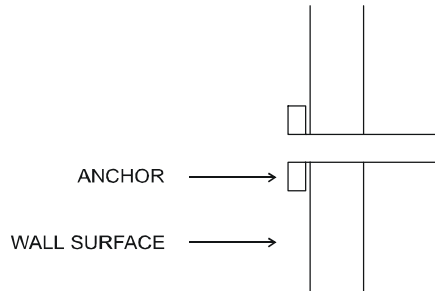
***IMPORTANT:*** *If you have no experience installing wall anchors you should have this system mounted by someone who does have the proper experience.*

**Whichever type anchors you use, make sure that the diameter of the screw heads is at least 1/4".**

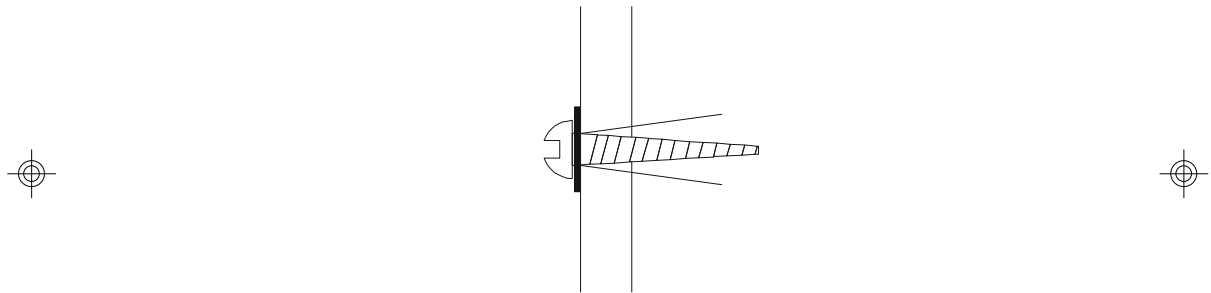
Follow the instructions supplied with the wall anchors to determine the proper size drill bit to use in your electric drill. After installing the proper size bit, drill holes in the wall surface at the 4 locations where you made the starter holes in Step 4.



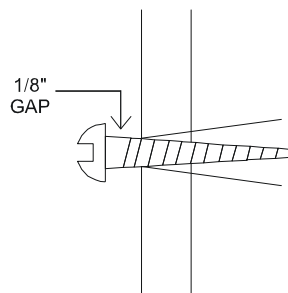
7.) Insert the tip of the anchor into each hole and use a hammer to tap the anchors all the way in until they are flush with the wall surface.



8.) Insert the screw into the anchor and tighten the screw until it touches the collar on the anchor. This causes the anchor to spread inside the wall and locks the anchor in place.



9.) Loosen the screw until there is a gap about 1/8" between the screw head and the wall.





10.) Position the main unit over the two screw heads so that the heads of the screws fit into bottom of each "Keyhole" on the back cabinet. When the two screw heads are inside the keyholes, slide the main unit slightly downward until each screw head is in the top of the keyhole.



Insert screw head into keyhole

Slide unit downward to lock unit in position

If the main unit is still loose, you probably left too large a gap between the screw head and the wall. Slide the unit slightly upward and take it off the mounting screws. Tighten one or both screws slightly and remount the unit. It should fit snugly against the wall and not move when you are loading or unloading CD's.

Follow a similar procedure to mount each speaker.



**NOTE:** It will be necessary to remove the main unit from the wall to connect the speaker wires. If there is any excess speaker wire hanging between the main unit and the speakers, remove the speaker from the wall and use a twist-tie to secure the excess wire to the lower metal bracket on the back of the speaker cabinet, then remount the speakers.



**NOTE:** You can also purchase plastic cord covers at most home improvement centers. These covers can easily be cut to any desired length and attached to the wall to conceal the speaker wires and AC power cord if necessary. The covers can also be painted or wall papered to match the surrounding wall surface.

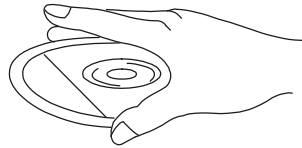
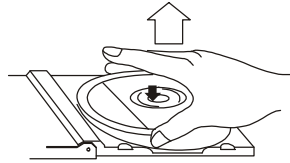




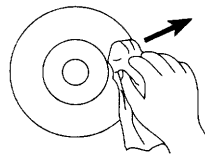
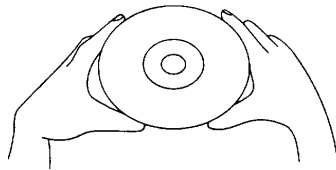
## CARE AND MAINTENANCE

### COMPACT DISC CARE

- To remove a disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edges.



- Fingerprints and dust should be carefully wiped off the disc's recorded surface with a soft cloth. Unlike conventional records, compact discs have no grooves to collect dust and microscopic debris, so gently wiping with a soft cloth should remove most particles. Wipe in a straight line from the inside to the outside of the disc. Small dust particles and light stains will have absolutely no effect on reproduction quality.



- Clean the disc periodically with a soft, lint-free, dry cloth. Never use detergents or abrasive cleaners to clean the disc. If necessary, use a CD cleaning kit.
- Never write on or affix labels to the surface of compact discs.

### CARE OF THE CABINET

If the cabinet becomes dusty wipe it with a soft dry dust cloth. Do not use any wax, polish sprays, or abrasive cleaners on the cabinet.

### CAUTION

Never allow any water or other liquids to get inside the unit while cleaning.



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