



# STYLISH MICRO HI-FI SYSTEM

## OWNER'S MANUAL

**MODEL : LF-M335**

| LF-M335A/D/X, LF-MP335, LF-TP335  
| LFS-M335

**LF-M330**

| LF-M330A/D/X, LF-MP330,  
| LFS-M330



Please read this manual carefully before operating your set.  
Retain it for future reference.

Designs and specifications are subject to change without  
notice for improvement.





## Safety Precautions

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>		

### Explanation Graphical Symbols:



The lightning flash with arrowhead 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.



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.

### WARNING

TO REDUCE THE RISK OF FIRE OF ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

To avoid electrical shock, do not open the cabinet, Refer servicing to qualified personnel only.

**The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.**

### Warning:

Do not install this equipment in a confined space such a book case or similar unit.

### CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

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

**VARNING: OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD STRÅLEN ÄR FARLIG.**

**Attention: Quand l'appareil est ouvert, ne pas s'exposer aux radiations invisibles du faisceau laser.**

This label is located on the interior.

<b>CLASS 1</b>	<b>LASER PRODUCT</b>
<b>KLASSE 1</b>	<b>LASER PRODUKT</b>
<b>LUOKAN 1</b>	<b>LASER LAITE</b>
<b>KLASS 1</b>	<b>LASER APPARAT</b>
<b>CLASSE 1</b>	<b>PRODUIT LASER</b>

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the exterior.

This product is manufactured to comply with the radio interference requirements of EEC DIRECTIVE 89/336/EEC, 93/68/EEC and 73/23/EEC.



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## About the symbols for instructions

-  Indicates hazards likely to cause harm to the unit itself or other material damage.
-  Indicates special operating features of this unit.
-  Indicates tips and hints for making the task easier.



## Before Use

### Precautions

#### Handling the unit

##### **When shipping the unit**

The original shipping carton and packing materials come in handy. For maximum protection, re-pack the unit as it was originally packed at the factory.

##### **To keep the surface clean**

Do not use volatile liquids, such as insecticide spray, near the unit. Do not leave rubber or plastic products in contact with the unit for a long period of time. They will leave marks on the surface.

#### Cleaning the unit

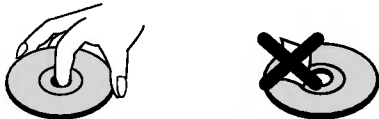
##### **To clean the cabinet**

Use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents, such as alcohol, benzene, or thinner, as these might damage the surface of the unit.

### Notes on Discs

#### Handling discs

Do not touch the playback side of the disc.  
Hold the disc by the edges so that fingerprints will not get on the surface.  
Do not stick paper or tape on the disc.



#### Storing discs

After playing, store the disc in its case.  
Do not expose the disc to direct sunlight or sources of heat, or leave it in a parked car exposed to direct sunlight, as there may be a considerable temperature increase inside the car.

#### Cleaning discs

Fingerprints and dust on the disc can cause poor quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.

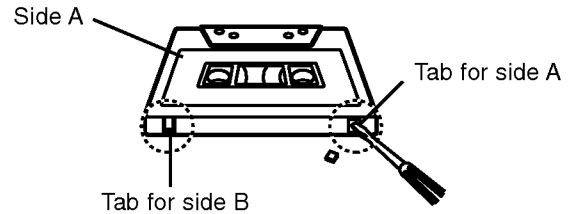


Do not use strong solvents such as alcohol, benzene, thinner, commercially available cleaners, or anti-static spray intended for analog records.

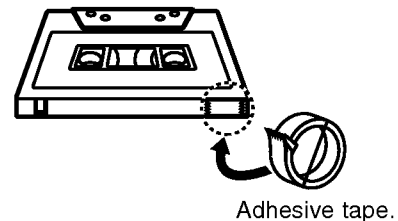
### Notes on Tapes (LF-M335 model only)

#### Preventing record

Removing the tab(s) of the cassette (with a small screwdriver) will prevent accidental erasure.



To record again, cover the hole of the tab with adhesive tape.



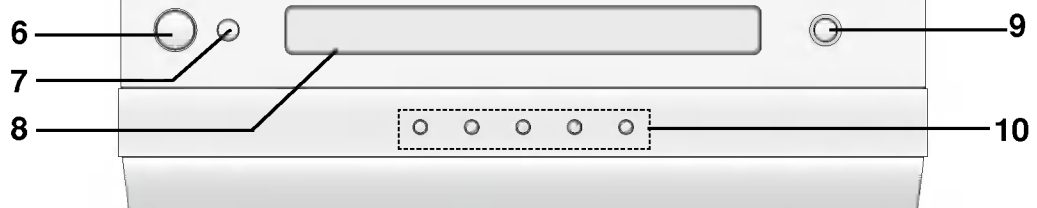


## Front Panel (LF-M335 model only)

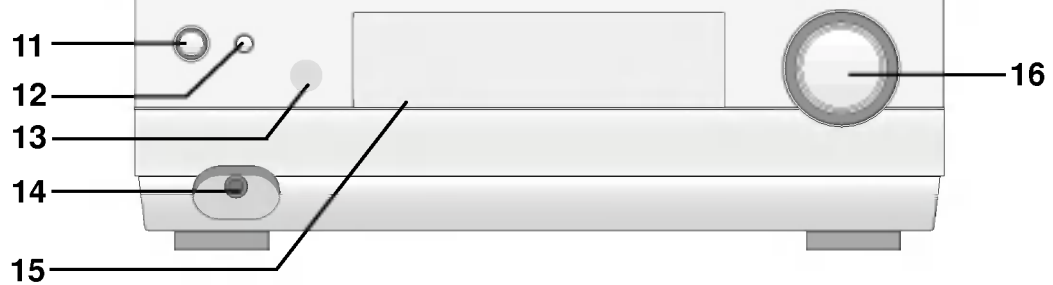
### Cassette tape player



### CD player



### Tuner/ Amplifier



#### Cassette tape player

1. RECORD/ RECORD PAUSE (●REC/PAUSE) button
2. PLAY MODE button
3. TAPE TRAY
4. TAPE TRAY OPEN/CLOSE (▲ OPEN/CLOSE) button
5. • REVERSE PLAY (◀) button
  - PLAY (▶) button
  - STOP button
  - TAPE REWIND/FAST FORWARD (REW/FF) buttons

#### Tuner/ Amplifier

11. POWER (⏻ STANDBY/ON) button
12. FUNCTION (FUNC.) button  
(TUNER/BAND, CD, TAPE, AUX)
13. REMOTE SENSOR
14. HEADPHONE SOCKET (🎧 PHONES) -  $\varnothing$  3.5mm
15. DISPLAY WINDOW
16. VOLUME KNOB

#### CD player

6. PLAY/PAUSE button
7. STOP button
8. CD DISC TRAY
9. CD TRAY OPEN/CLOSE (▲ OPEN/CLOSE) button
10. • REPEAT button
  - RANDOM button
  - PROGRAM button
  - CD SKIP/SEARCH (⏮ ⏪ / ⏩ ⏭) buttons

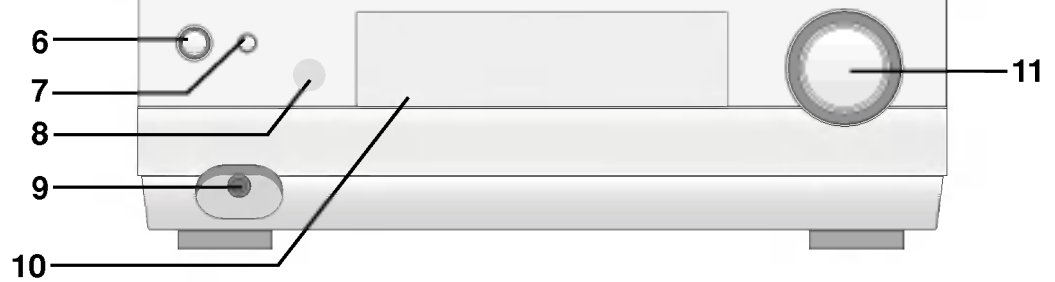


## Front Panel (LF-M330 model only)

### CD player



### Tuner/ Amplifier



#### CD player

1. PLAY/PAUSE button
2. STOP button
3. CD DISC TRAY
4. CD TRAY OPEN/CLOSE (▲ OPEN/CLOSE) button
5. • REPEAT button  
• RANDOM button  
• PROGRAM button  
• CD SKIP/SEARCH (|◀◀◀/▶▶▶|) buttons

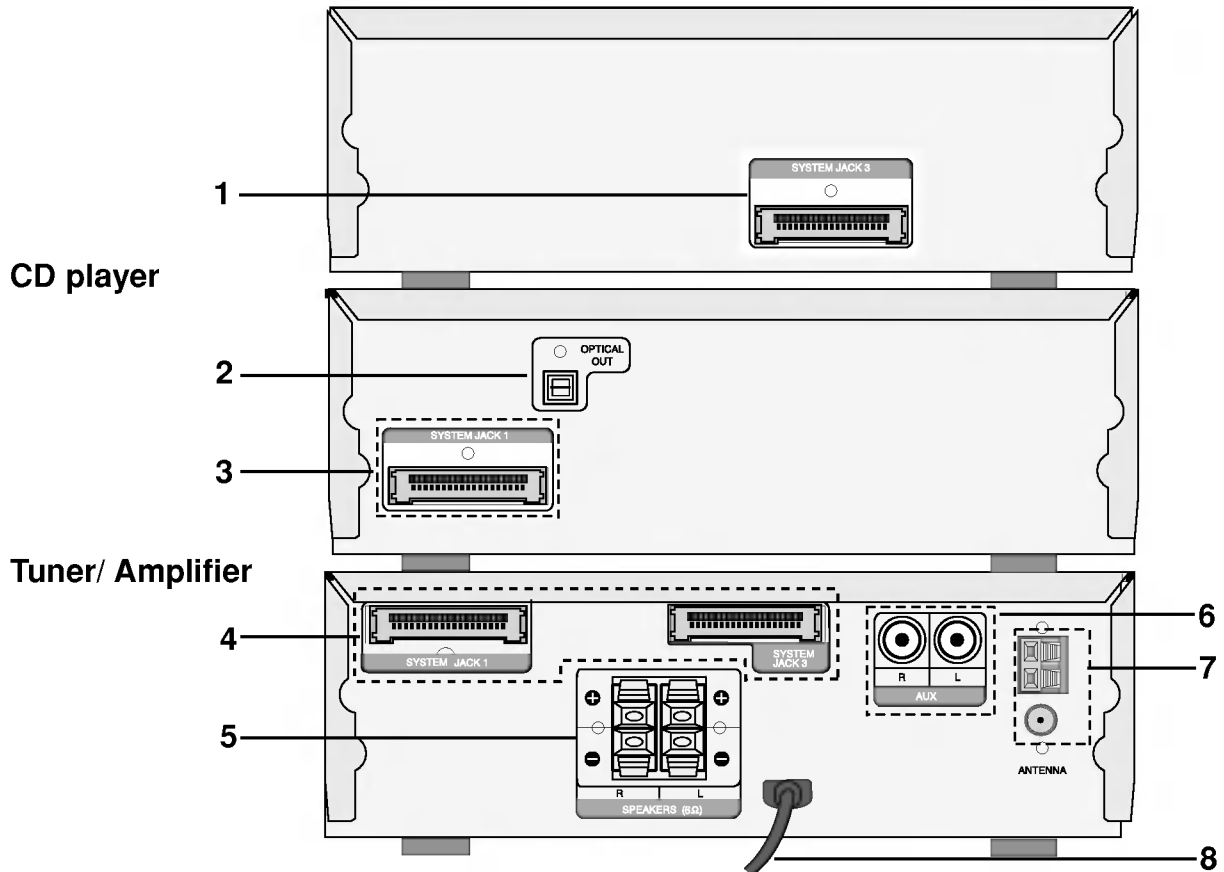
#### Tuner/ Amplifier

6. POWER (⏻ STANDBY/ON) button
7. FUNCTION (FUNC.) button  
(TUNER/BAND, CD, AUX)
8. REMOTE SENSOR
9. HEADPHONE SOCKET (🎧 PHONES) -  $\varnothing$ 3.5mm
10. DISPLAY WINDOW
11. VOLUME KNOB



## Rear Panel (LF-M335 model only)

### Cassette tape player



### Cassette tape player

1. SYSTEM Connector (SYSTEM JACK3)

### CD player

2. OPTICAL OUT Connector
3. SYSTEM Connector (SYSTEM JACK1)

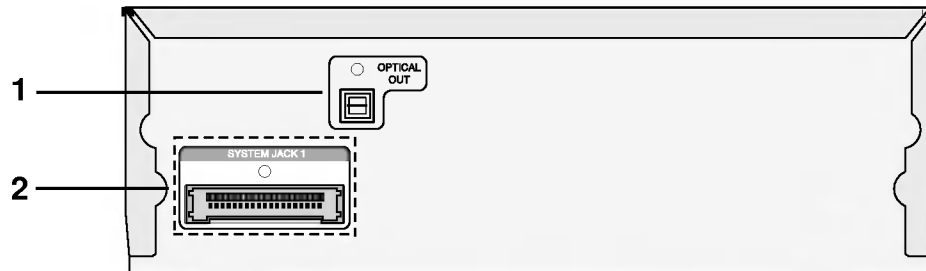
### Tuner/ Amplifier

4. SYSTEM Connector (SYSTEM JACK1/ SYSTEM JACK3)
5. SPEAKER Connectors
6. AUX INPUT (L/R)
7. ANTENNA Connector
8. POWER CORD

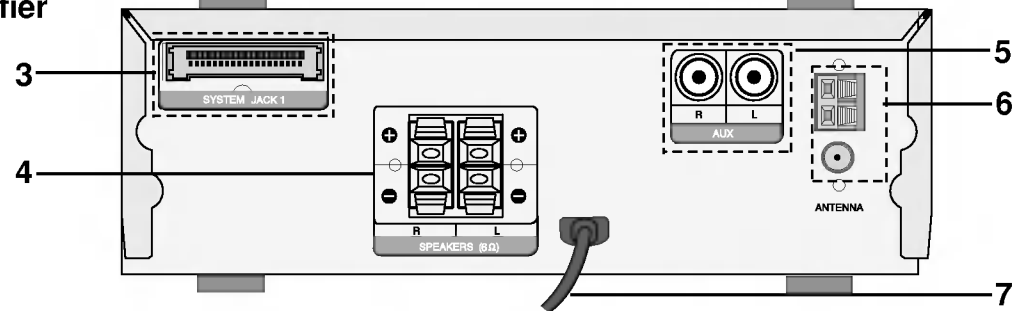


## Rear Panel (LF-M330 model only)

### CD player



### Tuner/ Amplifier



### CD player

1. OPTICAL OUT Connector
2. SYSTEM Connector (SYSTEM JACK1)

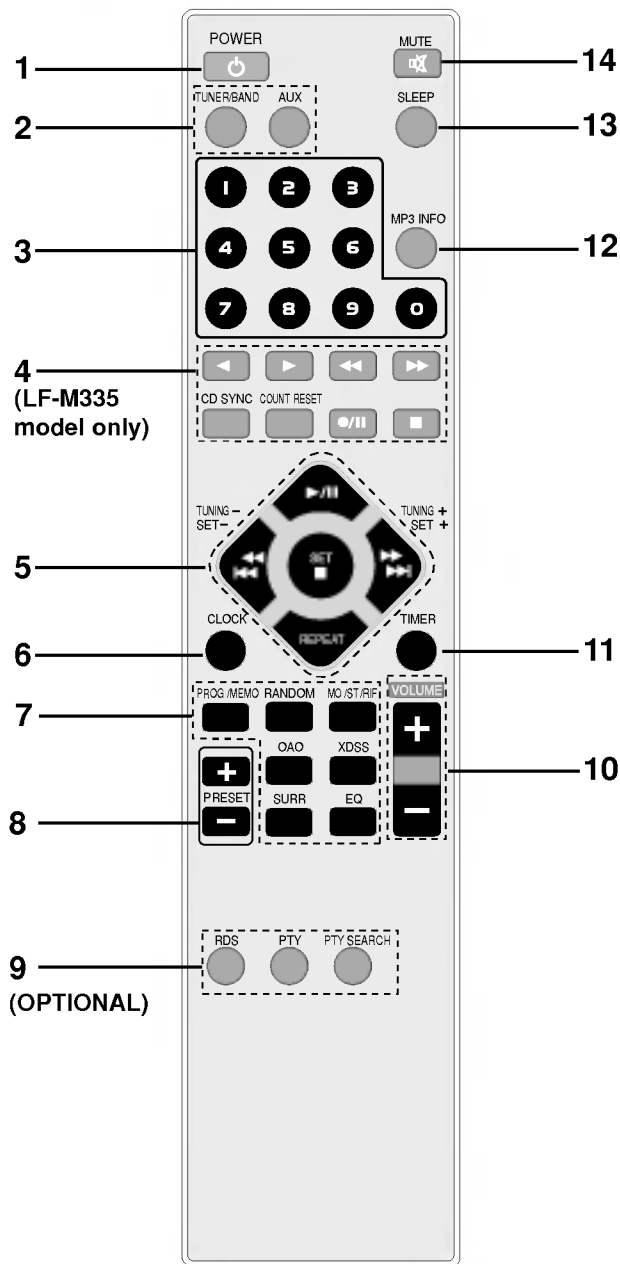
### Tuner/ Amplifier

3. SYSTEM Connector (SYSTEM JACK1)
4. SPEAKER Connectors
5. AUX INPUT (L/R)
6. ANTENNA Connector
7. POWER CORD





# Remote Control



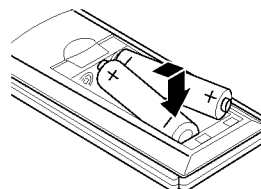
1. POWER button
2. •TUNER/BAND button  
•AUX button
3. NUMBER buttons
4. TAPE FUNCTION buttons (LF-M335 model only)
  - REVERSE PLAY (◀)
  - PLAY (▶)
  - TAPE REWIND/ FAST FORWARD PLAY (◀◀/▶▶)
  - RECORD/ RECORD PAUSE (●/||)
  - TAPE STOP (■)
  - CD SYNCHRO RECORDING (CD SYNC.)
  - COUNTER RESET (COUNT. RESET)
5. • CD PLAY/PAUSE (▶/||) button  
• CD STOP(■)/SET button  
• CD SKIP/SEARCH (◀◀◀/▶▶▶) buttons  
• TUNING (-/+)/SET(-/+) buttons  
• REPEAT button
6. CLOCK button
7. • PROGRAM/MEMORY (PROG./MEMO) button  
• RANDOM button  
• MO./ST./RIF button  
• OAO (Orientation Acoustic Optimizer) button  
• XDSS button  
• SURROUND (SURR.) button  
• EQUALIZER (EQ) button
8. PRESET (-/+) buttons
9. RDS/ PTY/ PTY SEARCH buttons (OPTIONAL)
10. VOLUME (-/+) buttons
11. TIMER button
12. MP3 file information display (MP3 INFO) button
13. SLEEP button
14. MUTE button

## Remote Control Operation Range

Point the remote control at the remote sensor and press the buttons.

- **Distance:** About 23 ft (7 m) from the front of the remote sensor
- **Angle:** About 30° in each direction of the front of the remote sensor

## Remote control battery installation



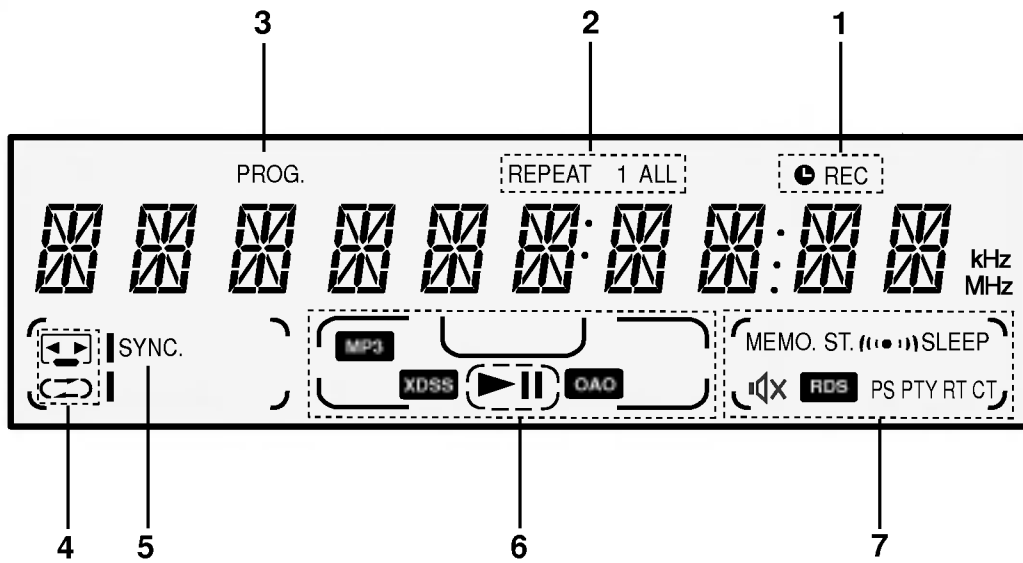
Detach the battery cover on the rear of the remote control, and insert two R03 (size AAA) batteries with + and - aligned correctly.

### ⚠ Caution

Do not mix old and new batteries. Never mix different types of batteries (standard, alkaline, etc.).



## Display Window



1. • TIMER indicator  
• RECORDING indicator
2. REPEAT indicator
3. PROGRAM (PROG.) indicator
4. TAPE FUNCTION indicator (LF-M335 model only)
  - TAPE REVERSE PLAY indicator
  - TAPE PLAY indicator
  - PLAY MODE indicator
5. CD SYNCHRO RECORDING indicator
6. • MP3 indicator  
• CD PLAY/PAUSE indicator  
• XDSS (Extreme Dynamic Sound System) indicator  
• OAO (Orientation Acoustic Optimizer) indicator
7. • MEMORY (MEMO.) indicator  
• FM STEREO RECEIVING indicator  
• SLEEP indicator  
• MUTE (M) indicator  
• RDS Data type indicators : OPTIONAL



## Connections (LF-M335 model only)

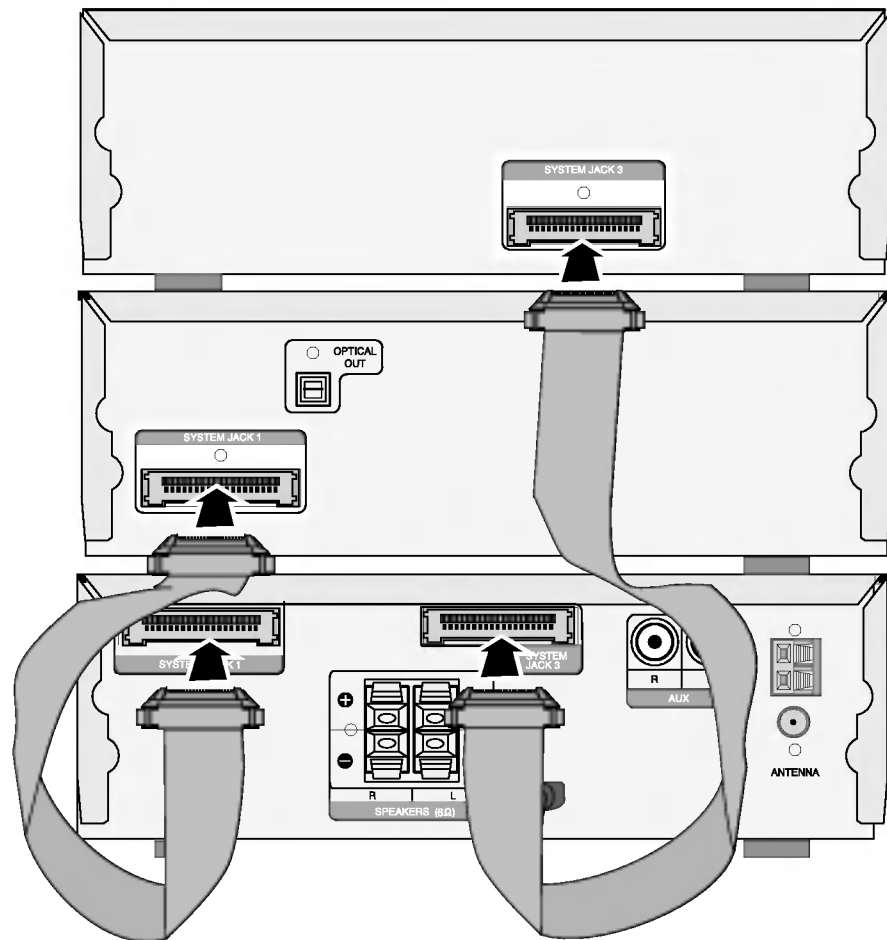
### Fitting the system connection cables

- Your unit consists of three separate parts, Cassette tape player, CD player and an integrated Tuner/Amplifier.
- Before you can use your unit, the separate parts must be connected with the supplied system connection cables.
- Make sure that all connections are made with your unit unplugged from the mains supply.

#### Cassette tape player

#### CD player

#### Tuner/ Amplifier



#### 1 Stack the parts of your unit in the order shown above.

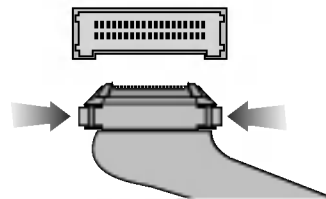
Position your unit so that you have easy access to the rear of it.

#### 2 Connect the SYSTEM JACK1 on the CD player to the SYSTEM JACK1 connector on the Tuner/ Amplifier.

#### 3 Connect the SYSTEM JACK3 connector on the Cassette tape player to the SYSTEM JACK3 connector on the Tuner/ Amplifier.

#### Notes

- The system connection cables will only connect and should 'click' into place, do not try to force them.
- If you need to unplug the system connection cables, squeeze both sides of each plug before pulling it out - this will 'unlock' the plug and allow it to be released.



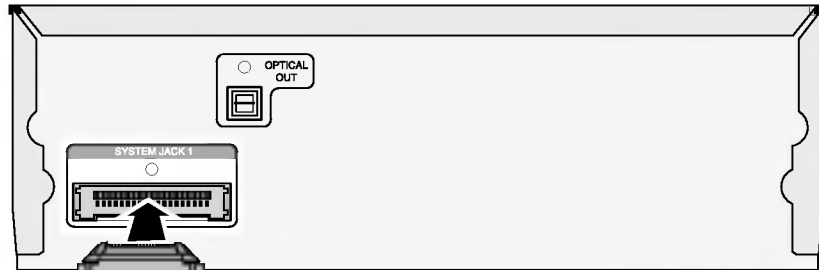


## Connections (LF-M330 model only)

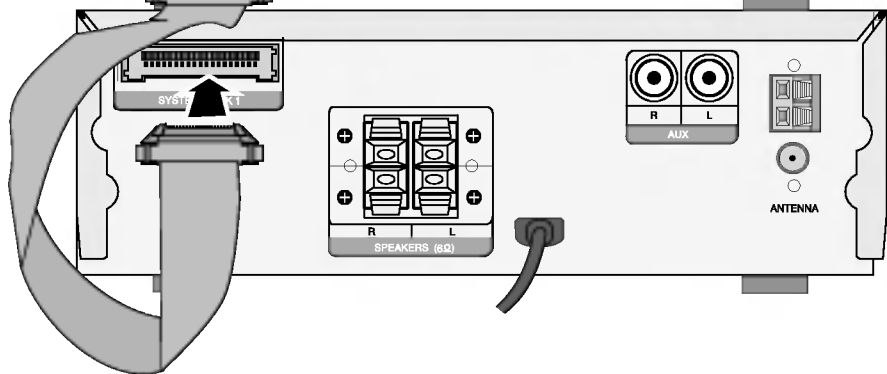
### Fitting the system connection cables

- Your unit consists of two separate parts, CD player and an integrated Tuner/Amplifier.
- Before you can use your unit, the separate parts must be connected with the supplied system connection cables.
- Make sure that all connections are made with your unit unplugged from the mains supply.

#### CD player



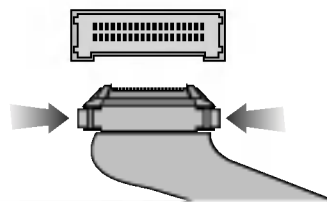
#### Tuner/ Amplifier



- 1** Stack the parts of your unit in the order shown above.  
Position your unit so that you have easy access to the rear of it.
- 2** Connect the SYSTEM JACK1 on the CD player to the SYSTEM JACK1 connector on the Tuner/Amplifier.

#### **N**otes

- The system connection cables will only connect and should 'click' into place, do not try to force them.
- If you need to unplug the system connection cables, squeeze both sides of each plug before pulling it out - this will 'unlock' the plug and allow it to be released.





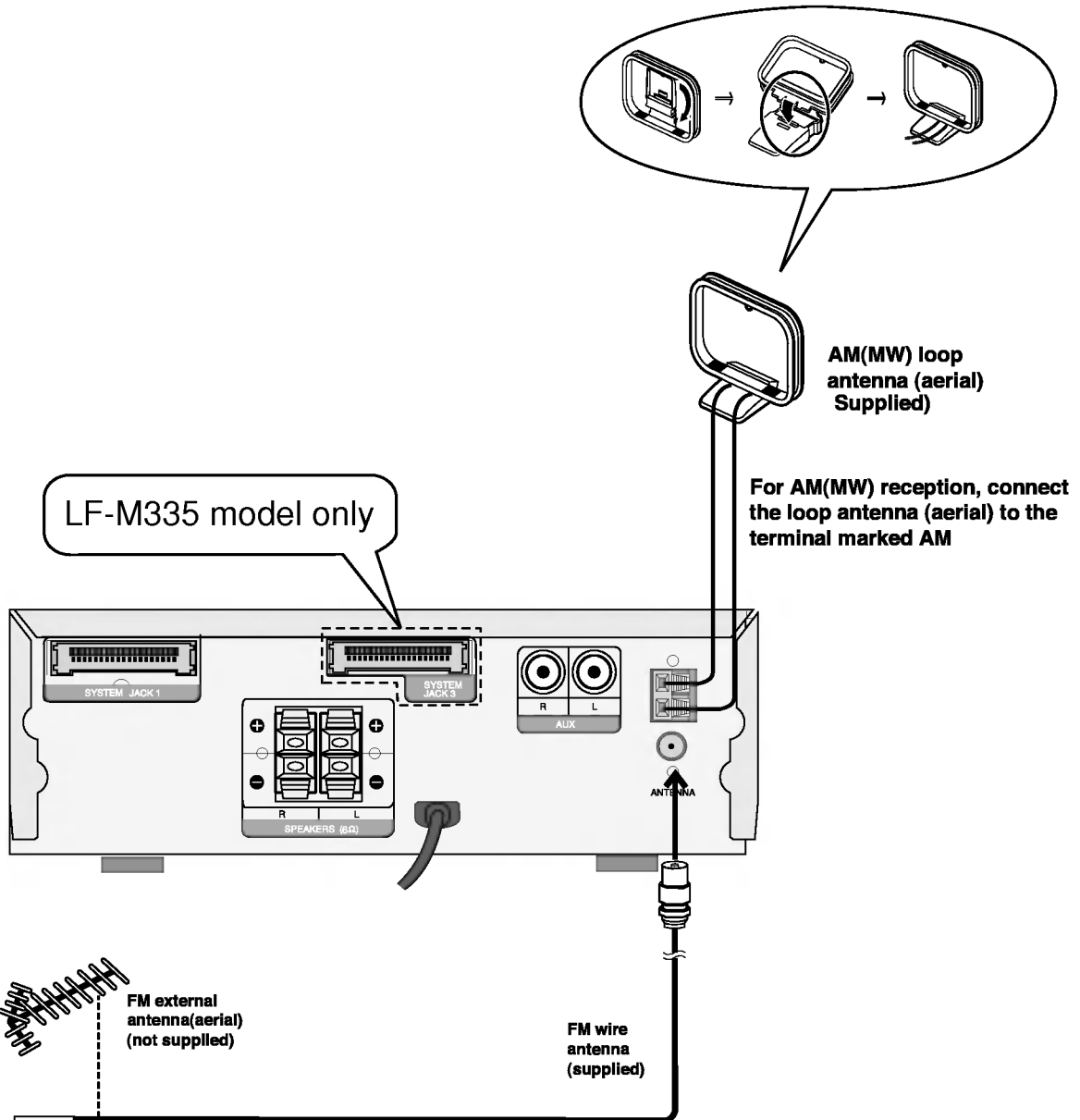
## Connections

### Connecting to Antenna

Connect the supplied FM/AM antennas for listening to the radio.

- Connect the AM loop antenna to the AM antenna connector.
- Connect the FM wire antenna to the FM antenna connector.

PREPARATION



#### Notes

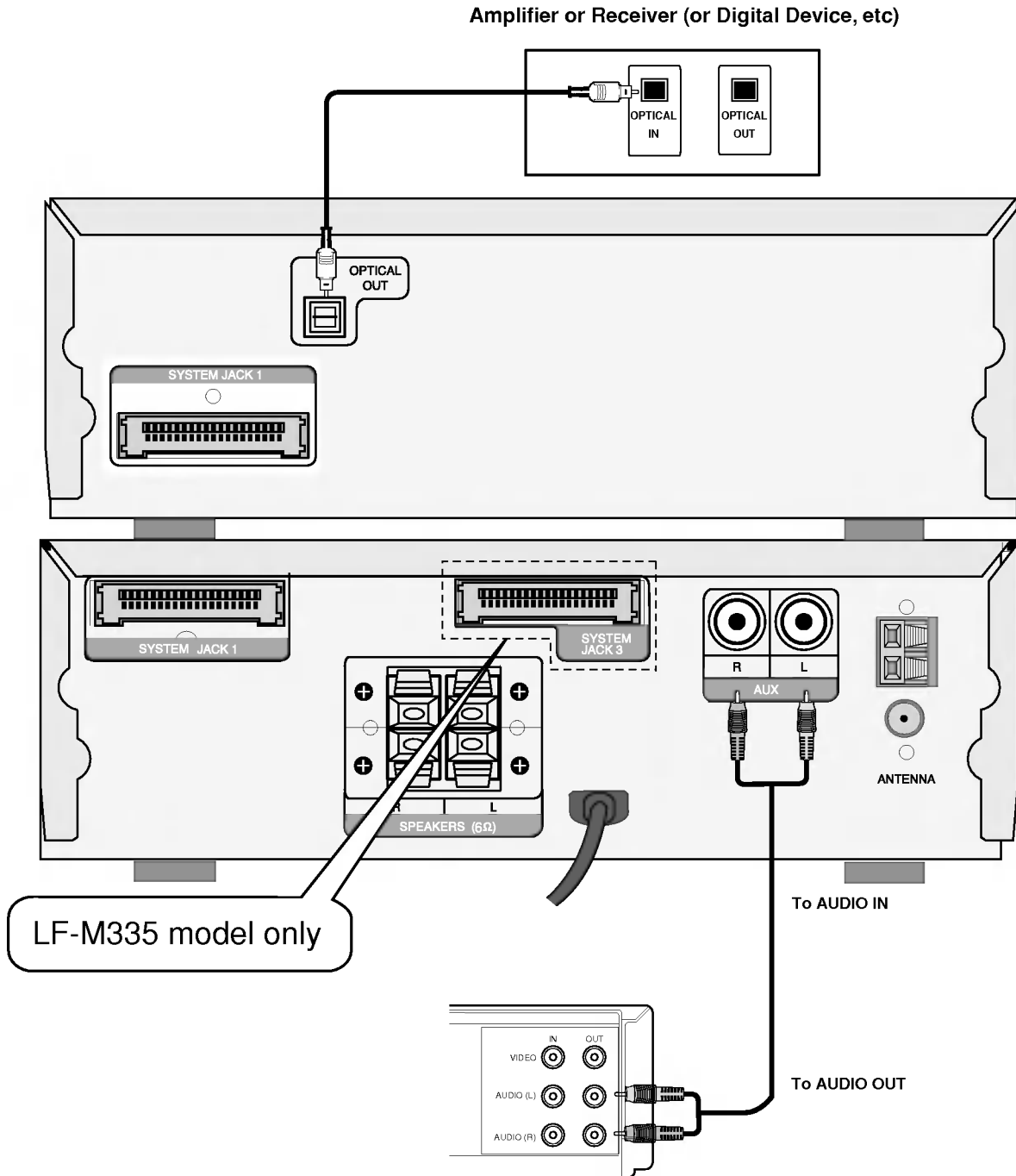
- To prevent noise pickup, keep the AM loop antenna away from the unit and other component.
- Be sure to fully extend the FM wire antenna.
- After connecting the FM wire antenna, keep it as horizontal as possible.



## Connections

### Connecting to Optional Equipment

- 1** Connect a VCR or auxiliary device to the AUX connectors.
- 2** Connect the OPTICAL OUT connector of this unit to the corresponding jack on your Amplifier or Receiver.
- 3** Select AUX by pressing the FUNCTION (FUNC.) button on the Tuner/ Amplifier or the AUX button on the remote control.



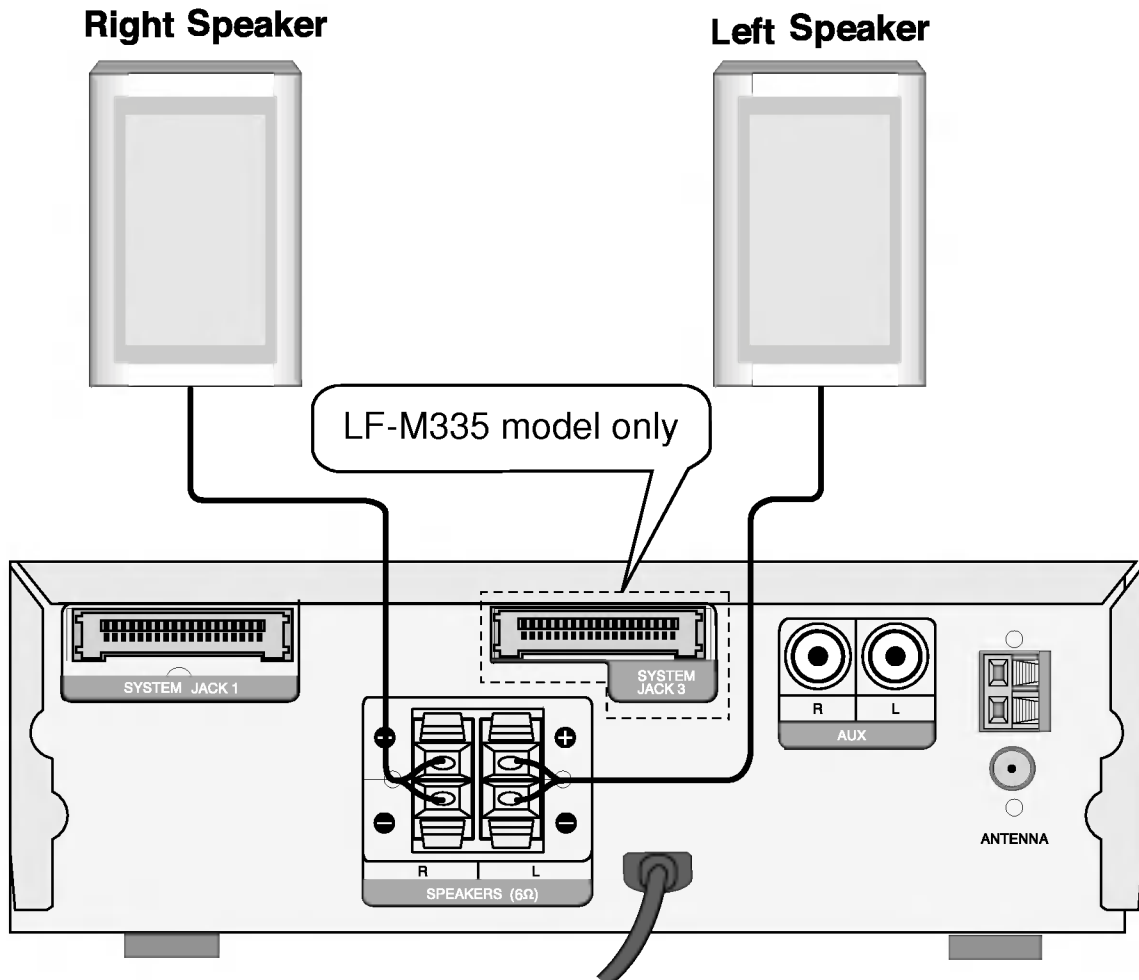


## Connections

### Speaker System Connection

Connect the speakers using the supplied speaker cords.

PREPARATION



#### Notes

- Be sure to match the speaker cord to the appropriate terminal on the components: + to + and – to –. If the cords are reversed, the sound will be distorted and will lack base.
- If you use speakers with low maximum input rating, adjust the volume carefully to avoid excessive output on the speakers.
- Do not disassemble the front cover of supplied speaker.



## Before Operation


### Audio Adjustment

#### Volume Adjustment

- Turn VOLUME knob clockwise to increase the sound level, or counterclockwise to decrease it.
- Use VOLUME + to increase the sound level, or use VOLUME - to decrease it on the remote control.

#### MUTE

Press MUTE to turn off the sound, press again to restore.

You can mute your unit in order, for example, to answer the telephone,  flashes in the display window.

#### Sound Quality Adjustment

##### • To activate stereo sound

You can choose between 4 fixed sound impressions. Select a desired sound mode using the EQUALIZER (EQ).

FLAT	: Linear frequency response
ROCK	: More bass, more treble
POP	: Less bass, less treble
CLASSIC	: For orchestral music

##### • Headphone Jack

Connect a stereo headphone plug (ø3.5mm) into the headphone jack.

The speakers are automatically disconnected when you plug in the headphones (not supplied).

#### XDSS (Extreme Dynamic Sound System)

Press XDSS to reinforce treble and bass.

- The "XDSS ON" indicator lights up.

To cancel it press XDSS again.

- The "XDSS OFF" indicator lights up.

#### SURROUND ON/OFF

You can choose between 2 surround sound mode by pressing SURROUND (SURR.) button.

The "SURROUND ON" or "SURROUND OFF" indicator lights. To cancel, press XDSS again.

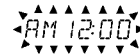
#### OAO (Orientation Acoustic Optimizer) ON/OFF

Press OAO to reinforce the bass sound. The "OAO ON" or "OAO OFF" indicator lights. To cancel, press OAO again.

### Setting the Clock

- 1 Press CLOCK.**  
(If the clock requires setting, press and hold CLOCK for more than 2 seconds.)  
- The hours display begins to blink.

- 2 Select either the 12 hour cycle or the 24 hour cycle by SET (-/+) on the remote control.**



(12HR)

or



(24HR)

- 3 Press SET to confirm the selected hour cycle.**

- 4 Use SET (-/+) to set the current hour.**

- 5 Press SET.**

- 6 Use SET (-/+) to set current minutes.**

- 7 Press SET and the correct time is shown on the display.**

- 8 Press CLOCK at any time to show the time on the display, for about 5 seconds.**

### Sleep Timer Function

When the sleep timer is set, the unit automatically turns off after the specified time has elapsed.

- 1 To specify the time delay before the power is turned off, press SLEEP.**

In the display window you can see *SLEEP 90* for about 5 seconds. This means that the system turns off automatically after 90 minutes.

Each time the button is pressed the time interval before it turns off is reduced by 10 minutes. i.e. 80...70... etc. Select the desired time to turn off.

- 2 To check the remaining time until the power is turned off.**

While the sleep function is active press **SLEEP** briefly. The time remaining until the unit turns off is displayed for about 5 seconds.

#### **N**ote

If you press **SLEEP** while the sleep time is displayed, the SLEEP time is reset.

#### **To cancel Sleep Timer setting**

If you wish to stop the function, press the **SLEEP** button repeatedly until "*SLEEP 10*" appears, and then press **SLEEP** once again after "*SLEEP 10*" shows on the display.





## Before Operation

### Timer Function

With the TIMER function you can have the radio reception and recording, CD or tape playing turned on and off at the time desired.

#### 1 Press CLOCK to check the current time.

##### For your reference

If you don't set clock, timer function doesn't work.

#### 2 Press TIMER to enter the timer setting mode.

TUNER-CD-TAPE flash in the display window in turn.

##### For your reference

If you want to correct the previous memorized TIMER setting, press and hold the TIMER button more than 2 seconds.

- The previous memorized timer setting for on Time and "⊙" indicators appear in the display.

#### 3 Press SET when the desired function flashes.

#### 4 1. a. When you select TUNER function, 'PLAY' and 'REC' indicator flash in the display window alternately for about 3 seconds.

'PLAY' indicator : TUNER play only

'REC' indicator : TUNER play and recording

#### b. Press SET when the desired function flashes.

#### c. Select the previous memorized preset number with SET (-/+) on the remote control and press SET.

'ON TIME' indicator appears for about 0.5 seconds in the display window and then disappears.

#### 2. When you select CD or TAPE function, 'ON TIME' indicator appears for about 0.5 seconds in the display window and then disappears.

#### 5 Set the turn on hour pressing SET (-/+).

#### 6 Press SET to confirm the turn on hour time.

#### 7 Set the turn on minutes time pressing SET (-/+).

#### 8 Press SET to confirm the turn on minutes time.

'OFF TIME' indicator appears for about 0.5 seconds in the display window and then disappears .

#### 9 Set the turn off hour time pressing SET (-/+).

#### 10 Press SET.

#### 11 Set the turn off minutes pressing SET (-/+).

#### 12 Press SET.

#### 13 Adjust the volume level pressing SET (-/+).

#### 14 Press SET.

"⊙" appear in the display window and the timer setting has been completed.

#### 15 Turn the system off.

The selected timer functions are automatically switched on and off at the preset times.

### To cancel or check the timer

Each time the TIMER button is pressed you can select the timer set or cancel. You can also check the timer setting status.

To activate or check the timer, press the **TIMER** button repeatedly so that "⊙" appears in the display window.

To cancel the TIMER, press the **TIMER** button repeatedly so that "⊙" disappears in the display window.



## Operation with RADIO

### Presetting the radio stations

You can preset 50 stations for FM and AM.  
Before tuning, make sure that you have turned the volume down to the minimum level.

**1** Press **FUNCTION (FUNC.)** button repeatedly (or **TUNER/BAND** on the remote control) to show either **FM** or **AM** in the display window.  
Every time you press this button, AM and FM changes alternately.

**2** Press **TUNING (-/+)** on the remote control until the frequency indication starts to change.

#### **N**otes

- **Automatic Tuning**

Press the **TUNING (-/+)** for more than 0.5 second.  
- Scanning stops when the unit tunes in a station.

- **Manual Tuning**

Press the **TUNING (-/+)** briefly and repeatedly.

**3** Press **PROG./MEMO** on the remote control.  
A preset number will flash in the display window.

**4** Press **PRESET (-/+)** on the remote control to select the preset number you want.

**5** Press **PROG./MEMO** again.  
The station is stored.

**6** Repeat steps 2 to 5 to store other stations.

### **To clear all memorized stations**

Press and hold **PROG./MEMO** on the remote control for about two seconds, "**CLEAR ALL**" appears in the display window and then press **PROG./MEMO** on the remote control, the stations are cleared.

#### **For your reference**

If all stations have already been entered, "**MEM FULL**" message will appear in the display window for a moment and then a preset number will flash. To change the preset number, follow the steps 4-5 on the left side.

### **To recall preset numbers**

Press and hold **PRESET (-/+)** on the remote control until the desired preset number appears or press the button repeatedly.

### Listening to the radio

**1** Press **FUNCTION (FUNC.)** button repeatedly (or **TUNER/BAND** on the remote control) to show either **FM** or **AM** in the display window.  
The last received station is tuned in.

**2** Press **PRESET (-/+)** on the remote control repeatedly to select the preset station you want.  
Each time you press this button, the unit tunes in the next preset station.

**3** Adjust the volume by rotating **VOLUME** knob (or pressing **VOLUME +/-** on the remote control) repeatedly.

### **To listen to non-preset radio stations**

- For manual tuning, see "Manual Tuning".
- For automatic tuning, see "Automatic Tuning".

### **To turn the radio off**

Press **POWER (⏻ STANDBY/ON)** to turn off the unit or to select another function mode (TAPE, CD or AUX).

#### **For your reference**

- **If a FM program is noisy**

Press **MO./ST./RIF** repeatedly so that "ST." disappears in the display window. There will be no stereo effect, but the reception will improve. Press **MO./ST./RIF** again to restore the stereo effect.

- **To improve reception**

Reposition the supplied antennas.

#### **N**otes

- Use **MO./ST./RIF** (Radio Interference Filter) function to switch to Mono reception if stereo reception is distorted by noise.
- While recording weak AM broadcasts, if noises occurs, press **MO./ST./RIF** once.



## RDS Function - OPTIONAL

### About RDS

This unit is equipped with RDS (Radio Data System), which brings a wide range of information from FM radio. RDS is a system for transmitting station call signs or network information, a description of station programme type text message about the station or specifics of musical selection and the correct time.

### RDS Tuning

When a FM station containing RDS data is tuned in, the unit will automatically display the station's call sign and the RDS indicator will light in the Display Window as well as indicators for the programme type recognition (PTY), Radio Text (RT), Clock Time (CT) and RDS services programme (PS) if transmitted by the station.

### RDS Display Options

The RDS system is capable of transmitting a wide variety of information in addition to the initial call sign that appears when a station is first tuned. In normal RDS operation the display will indicate the station name, broadcast network or call letters. Pressing **RDS** on the front panel enables you to cycle through the various data types in the sequence:

(PS → FREQUENCY → PTY → RT → CT)

- **PTY (Programme type recognition)**- The programme type is shown in the display window.
- **RT (Radio text recognition)**- The radio station's name is displayed in the display window.
- **CT (Time controlled by the channel)**- Enable the unit to receive the actual time and show it in the display window.
- **PS (Programme Service name)**- The programme title is displayed in the display window.

### Note

Some RDS stations may not choose to include some of these additional features. If the data required for the selected mode is not being transmitted, the Display Window will show a **PTY NONE**, **RT NONE**, **CT NONE**, **PS NONE** message.

## Programme Search (PTY)

A major benefit of RDS is its ability to encode broadcasts with Programme Type (PTY) codes that indicate the type of material being broadcast. The following list shows the abbreviations used to indicate each PTY along with an explanation of the PTY.

NEWS	News
AFFAIRS	Current Affairs
INFO	Information
SPORT	Sports
EDUCATE	Educational
DRAMA	Drama
CULTURE	Culture
SCIENCE	Science
VARIED	Varied Speech Programme
POP M	Popular Music
ROCK M	Rock Music
EASY M	Easy Listening Music
LIGHT M	Classical Music
CLASSICS	Serious Classical Music
OTHER M	Other Music
WEATHER	Weather Information
FINANCE	Financial Programmes
CHILDREN	Children's Programmes
SOCIAL	Social Affairs Programmes
RELIGION	Religious Broadcasts
PHONE IN	Phone-In Programmes
TRAVEL	Travel and Touring
LEISURE	Leisure and Hobby
JAZZ	Jazz Music
COUNTRY	Country Music
NATION M	National Music
OLDIES	Oldies Music
FOLK M	Folk Music
DOCUMENT	Documentary Programmes
TEST	Station Alarm Test Message
ALARM 1	Emergency Broadcast Information

You may search for a specific Programme Type (PTY) by following these steps:

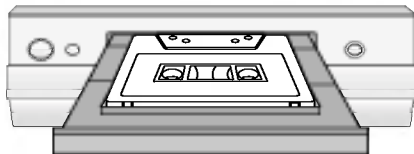
- 1 Press FUNCTION (FUNC.) button repeatedly (or TUNER/BAND on the remote control) to select FM mode.**
- 2 Press PTY on the remote control, the display will show the last PTY in use.**
- 3 Press PTY repeatedly to select a desired PTY.**
- 4 When the PTY is selected, press PTY SEARCH.**  
The unit will go into an automatic search mode. When a station is tuned, the search will stop.



## Operation with TAPE (LF-M335 model only)

### Basic Playback

- 1** Press FUNCTION (FUNC.) button repeatedly on the Tuner/ Amplifier to select tape function. ("NO TAPE" appears in the display window.)
- 2** Press TAPE TRAY OPEN/CLOSE (▲ OPEN/ CLOSE) button to open tape tray.
- 3** Place a cassette in the tape tray and then press TAPE TRAY OPEN/CLOSE (▲ OPEN/ CLOSE) button again to close tape tray.



- 4** Press ► or ◀ on the remote control to begin playback of your cassette. The tape direction indicator will flash and tape counter will begin to operate.

### Auto Reverse Deck

#### Auto reverse play

By default, your cassette deck will play one side of cassette once, and then automatically stop.

- "↔" indicator is shown in the display window.

#### Play both sides of a cassette once

Press the PLAY MODE button on your cassette tape player once to select playback of both sides of the cassette. Both sides of your cassette will now play once.

- "↔" indicator is shown in the display window.

#### Repeat play the whole cassette

Press the PLAY MODE button on your cassette tape player twice to select playback of both sides of the cassette six times. Both sides of your cassette will now play six times before stopping.

- "↔" indicator is shown in the display window.

### To Stop Play

Press STOP on the cassette tape player or TAPE STOP (■) on the remote control during playback.

### Tape Counter Reset

Press COUNTER RESET (COUNT.RESET) during playback.

Playing time appears "TAPE 0000" in display window.

### To Play Rewind or Fast Forward

After press the REW/FF buttons on your cassette tape player or ◀◀/▶▶ on the remote control during playback or stopping, press ► or ◀ at the tape position you want.

### Recording from Radio, CD or Auxiliary source

- 1** Open the cassette deck and insert a blank cassette into the tape tray.  
**To set the recording direction**  
Press PLAY MODE repeatedly to set the recording direction.
- 2** Press the function (CD, TUNER or AUX) you want, and then begin playback of your selected source.
- 3** Press ●/|| on the front panel or on the remote control.  
"REC" flashes and holds the cassette in pause mode.
- 4** Press PLAY (▶) on remote control.  
The recording is begun.  
**To pause the recording**  
Press ●/|| during recording.  
**To stop the recording**  
Press STOP(■).

### CD- Synchro recording

This feature is a convenient to record tracks from CD to cassette.

- 1** Select the CD function and load a CD to be recorded.  
You may wish to program a selection of tracks for recording.
- 2** Open the cassette deck and insert a blank cassette into the tape tray.  
**To set the recording direction**  
Press PLAY MODE repeatedly to set the recording direction.
- 3** Press CD SYNC. in stop mode.  
"REC" flashes and "CD SYNC" displays in the display window.
- 4** The synchronized recording is started automatically after about 7 seconds.

#### Notes

- If you wish to record from the desired track, select the desired track with ◀◀◀◀ / ▶▶▶▶ before commencing CD synchro recording.
- A function change is not possible during recording.



## Operation with CD

### Basic Playback

- 1** Press FUNCTION (FUNC.) button repeatedly on the Tuner/ Amplifier to select CD function. ("NO DISC" appears in the display window.)
- 2** Press CD TRAY OPEN/CLOSE (▲ OPEN/ CLOSE) button to open CD DISC tray.
- 3** Place a CD in the CD disc tray and then press CD TRAY OPEN/CLOSE (▲ OPEN/ CLOSE) button again to close CD disc tray.

Audio CD: "READING" appears in the display window, and then the total number of tracks and playing time are displayed.

MP3 CD: "READING" appears in the display window, and then the total number of files is displayed.



To load an 8cm(3 inch) disc, put it onto the inner circle of the tray.

- 4** Press PLAY/PAUSE button on the CD Player or ►/|| on the remote control to begin playback of your CD.

### To Pause Play

Press PLAY/PAUSE button on the CD Player or CD PLAY/PAUSE (►/||) on the remote control during playback.

Press this button again it to resume play.

### To Stop Play

Press STOP button on the CD Player or CD STOP (■) on the remote control during playback.

### To Skip a Track

- Press ►► ►► button to go to the next track.
- When ◀◀ ◀◀ button is pressed once midway through a track, the player returns to the start of that track. When it is pressed again, a track is skipped each time the button is pressed.

### To Search a Track

After pressing and holding ◀◀ ◀◀/►► ►► button on the remote control during playback, then release at the point you want.



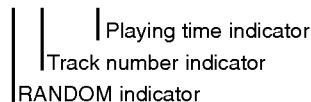
This function is not available to play a MP3 file.

### To Play tracks in random order

Press the RANDOM button on the CD Player or the remote control during playback.

The tracks on the CD will all play in random order.

EX) "R 5 00:20" will be shown in the display window.



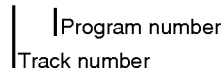
### To cancel random playback

Press the RANDOM button again to return to normal CD playback.

### Program Play

You can arrange the order of the tracks on the discs and create your own program. The program can contain up to 20 tracks.

- 1** Press PROG./MEMO on the remote control on the stop mode.
- 2** Press ◀◀ ◀◀ / ►► ►► to select the track. EX) "04 P-01" will be shown in the display window.



- 3** Press PROG./MEMO on the remote control.
- 4** Repeat 1~3.
- 5** Press PLAY/PAUSE button on the CD Player or ►/|| on the remote control to begin playback of your CD. "PROG." appears in the display window.

### To check program contents

Press PROG./MEMO on the remote control on the stop mode.

- A Track and program number will be displayed.

### To clear program contents

Press PROG./MEMO on the remote control on the stop mode. And then press CD STOP(■) on the remote control.

### To add program contents

1. Press PROG./MEMO on the remote control repeatedly on the program stop mode until "Track Number" blinks.
2. Repeat 2~4 on above.

### To modify program contents

1. Press PROG./MEMO on the remote control to display program number you want to modify.
2. Repeat 2~4 on above.



## Operation with CD

### **To Repeat Play**

#### **To play one track repeatedly**

Press REPEAT once during playback.

- "REPEAT 1" appears in the display window.

#### **To play all tracks repeatedly**

Press REPEAT once more during playback.

- "REPEAT ALL" appears in the display window.

#### **To cancel repeat play**

- Press **REPEAT** several times until repeat indicator disappears.

#### **Program repeat play**

- Press REPEAT once during program play.
  - "REPEAT 1" appears in the display window.  
(One track repeat)
- Press REPEAT again during program play.
  - "REPEAT ALL" appears in the display window.  
(All program repeat)

### **To check MP3 file information**

Press the MP3 Info button during MP3 file playback.

- The information (Title, Artist or Album) of the MP3 file will be shown in the display window.
- If there is no the information of the MP3 file, "NO ID3 TAG" indicator will be shown in the display window.

#### **Note**

- This unit can play a CD-R or CD-RW that contains audio titles or MP3 files.
- The MP3 file name and ID3 TAG should be named using English.

#### **About MP3**

- An MP3 file is audio data compressed by using the MPEG1 audio layer-3 file-coding scheme. We call files that have the ".mp3" file extension "MP3 files".
- The unit can not read an MP3 file that has not ".mp3" file extension.

#### **MP3 Disc compatibility with this unit is limited as follows:**

1. Sampling Frequency / 8 - 48kHz
2. Bit rate / 8 - 320kbps
3. CD-R physical format should be "ISO 9660"
4. If you record MP3 files using the software which cannot create a FILE SYSTEM, for example "Direct-CD" etc., it is impossible to playback MP3 files. We recommend that you use "Easy-CD Creator", which creates an ISO9660 file system.
5. File names should be named using 30 letters or less and must incorporate ".mp3" extension  
e.g. "\*\*\*\*\*.MP3".
6. Do not use special letters such as "/ : \* ? " < > " etc.
7. Even if the total number of files on the disc have more than 1000, it will only be shown up to 999.

#### **About MULTI SESSION**

- This function recognizes the multi session disc according to a disc of CD-ROM type.

ex) If there are MP3 files in the first session, the MP3 file in the first session is only played.

If there are only MP3 files in the whole session, all of the MP3 files in the session are played.

If there is Audio CD in the first session, only the Audio CD in the first session is played.



## Troubleshooting

Check the following guide for the possible cause of a problem before contacting service.

REFERENCE

Symptom	Cause	Correction
No power.	<ul style="list-style-type: none"><li>The power cord is disconnected.</li></ul>	<ul style="list-style-type: none"><li>Plug the power cord into the wall outlet securely.</li></ul>
No sound.	<ul style="list-style-type: none"><li>The audio cables are not connected securely.</li></ul>	<ul style="list-style-type: none"><li>Connect the audio cable into the jacks securely.</li></ul>
	<ul style="list-style-type: none"><li>The power of the external source equipment is switched off.</li></ul>	<ul style="list-style-type: none"><li>Turn on the equipment connected with the audio cable.</li></ul>
	<ul style="list-style-type: none"><li>The speaker cable is set to the wrong position.</li></ul>	<ul style="list-style-type: none"><li>Set the speaker cable to the correct position, then turn on the unit again by pressing POWER.</li></ul>
	<ul style="list-style-type: none"><li>The system connection cables are not connected.</li></ul>	<ul style="list-style-type: none"><li>Connect the system connection cables.</li></ul>
The unit does not start playback.	<ul style="list-style-type: none"><li>No disc or tape is inserted.</li></ul>	<ul style="list-style-type: none"><li>Insert a disc or tape.</li></ul>
	<ul style="list-style-type: none"><li>An unplayable disc or tape is inserted.</li></ul>	<ul style="list-style-type: none"><li>Insert a playable disc or tape.</li></ul>
	<ul style="list-style-type: none"><li>The disc is placed upside down.</li></ul>	<ul style="list-style-type: none"><li>Place the disc with the playback side down.</li></ul>
	<ul style="list-style-type: none"><li>The disc is not placed within the guide.</li></ul>	<ul style="list-style-type: none"><li>Place the disc on the disc tray correctly inside the guide.</li></ul>
	<ul style="list-style-type: none"><li>The disc is dirty.</li></ul>	<ul style="list-style-type: none"><li>Clean the disc.</li></ul>
The remote control does not work properly.	<ul style="list-style-type: none"><li>The remote control is not pointed at the remote sensor of the unit.</li></ul>	<ul style="list-style-type: none"><li>Point the remote control at the remote sensor of the unit.</li></ul>
	<ul style="list-style-type: none"><li>The remote control is too far from the unit.</li></ul>	<ul style="list-style-type: none"><li>Operate the remote control within about 23 ft (7 m).</li></ul>
	<ul style="list-style-type: none"><li>There is an obstacle in the path of the remote control and the unit.</li></ul>	<ul style="list-style-type: none"><li>Remove the obstacle.</li></ul>
	<ul style="list-style-type: none"><li>The batteries in the remote control are exhausted.</li></ul>	<ul style="list-style-type: none"><li>Replace the batteries with new ones.</li></ul>



## Specifications

### General Section

Power supply	Refer to the main label.
Power consumption	30W

### Tuner/Amplifier Section

FM Tuning Range	87.5 - 108.0 MHz or 65 - 74 MHz, 87.5 - 108.0 MHz
Intermediate Frequency	10.7 MHz
Signal to Noise Ratio	60/55 dB (Mono/Stereo)
AM Tuning Range	522 - 1611 kHz or 530 - 1610 kHz or 530 - 1720 kHz
Intermediate Frequency	450 kHz
Signal to Noise Ratio	35 dB
Output Power	25W + 25W (4 $\Omega$ / 2ch THD 10 %)
T.H.D	0.2%
Frequency Response	40 - 20000 Hz
Signal-to-noise ratio	80 dB
Mass	3.69kg
External dimensions (W x H x D)	213 x 70 x 330 mm

### CD Player Section

Frequency response	40 - 18000 Hz
Signal-to-noise ratio	70 dB
Dynamic range	70 dB
Mass	6.43kg
External dimensions (W x H x D)	213 x 70 x 330 mm

### Cassette tape player Section (LF-M335 model only)

Tape Speed	3 kHz $\pm$ 3%
Wow Flutter	0.25% (MTT -111, JIS-WTD)
F.F/REW. Time	120sec (C-60)
Frequency Response	250 - 8000Hz
Signal to Noise Ratio	43dB(P/B)/43dB(R/B)
Channel Separation	50dB(P/B)/45dB(R/P)
Erase Ratio	55dB (MTT-5511)
Mass	1.91kg
External dimensions (W x H x D)	213 x 70 x 330 mm

### Speaker Section

Type	2 Way 2 Speaker
Impedance	6 $\Omega$
Frequency Response	60 - 20000 Hz
Sound Pressure Level	86 dB/W (1m)
Rated Input Power	25 W
Max. Input Power	50 W
Net Dimensions (W x H x D)	180X315X290mm
Net Weight	3.4 kg

- Design and specifications are subject to change without notice.

P/NO : 3834RH0037A