

Installation and Operating Guide

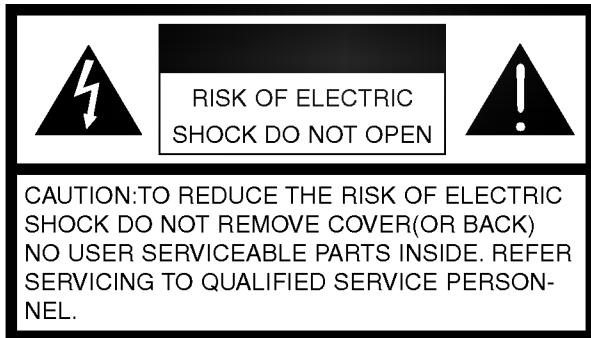
Machine Number

| F-986 (Main Unit : FFH-986A, Speakers : F-986S) |

HIGH PERFORMANCE MINI COMPONENT



Precautions



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 as 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.

WARNING: 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.

CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT
CLASSE 1	PRODUIT LASER

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

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

REGULATORY INFORMATION:

FCC Part 15

This product 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 when the product is operated in a residential installation. This product generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product 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 product and receiver.
- Connect the product 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.

FCC WARNING: This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

IMPORTANT SAFETY INSTRUCTIONS

CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS IN THIS OWNER'S MANUAL AND THOSE MARKED ON THE UNIT. 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.

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.** - All these safety and operating instructions should be read before the product is operated.
- 2. Keep these instructions.** - The safety, operating and use instructions should be retained for future reference.
- 3. Heed all warnings.** - All warnings on the product and in the operating instructions should be adhered to.
- 4. Follow all instructions.** - All operating and use instructions should be followed.
- 5. Do not use this apparatus near water.** - For example: near a bath tub, wash bowl, kitchen sink, laundry tub, in a wet basement; or near a swimming pool; and like.
- 6. Clean only with dry cloth.** - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.** - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from over- heating. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 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. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with 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 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.**

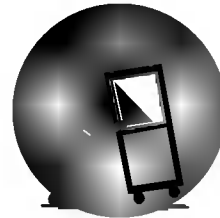


Table of Contents

INTRODUCTION

Precautions	2
-------------------	---

IMPORTANT SAFETY INSTRUCTIONS	3
-------------------------------------	---

Table of Contents	4
-------------------------	---

Before Use	5
------------------	---

Safety Precautions	5
--------------------------	---

Notes on Discs	5
----------------------	---

Notes on Remote Control	5
-------------------------------	---

Front Panel/ Rear Panel	6
-------------------------------	---

Remote Control	7
----------------------	---

Display Window	7
----------------------	---

Connections	8
-------------------	---

Speaker System Connection	8
---------------------------------	---

Antenna (Aerial) Connections	8
------------------------------------	---

BEFORE OPERATION

Setting the CLOCK	9
-------------------------	---

Sleep Function	9
----------------------	---

Using Microphone	9
------------------------	---

Timer Function	10
----------------------	----

Audio Adjustment	11
------------------------	----

Volume Adjustment	11
-------------------------	----

Sound Quality Adjustment	11
--------------------------------	----

MUTE	11
------------	----

SURROUND	11
----------------	----

DISPLAY MODE	11
--------------------	----

XDSS (Extreme Dynamic Sound System)	11
---	----

DEMO	11
------------	----

DIMMER	11
--------------	----

Auxiliary Function	11
--------------------------	----

OPERATION

Presetting the radio stations	12
-------------------------------------	----

Listening to the radio	13
------------------------------	----

Tape Playback	14
---------------------	----

Basic Playback	14
----------------------	----

To Stop Play	14
--------------------	----

Tape Counter Reset	14
--------------------------	----

To Play Fast Rewind or Fast Forward	14
---	----

Dubbing	14
---------------	----

Recording	15
-----------------	----

Basic Setting	15
---------------------	----

Recording from Radio, CD or Auxiliary source ..	15
---	----

CD to Tape Synchronized Recording	15
---	----

CD Playback	16
-------------------	----

Basic Playback	16
----------------------	----

To Pause Play	16
---------------------	----

To Stop Play	16
--------------------	----

To Skipping the Track	16
-----------------------------	----

To Play Fast Rewind or Fast Forward	16
---	----

To Go to the next discs	16
-------------------------------	----

To Select a disc directly	16
---------------------------------	----

To Replace discs during Playback	17
--	----

To Repeat Play	17
----------------------	----

To Program Play	18
-----------------------	----

Reference

Troubleshooting	19
-----------------------	----

Specifications	20
----------------------	----

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

Safety 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 picture 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.

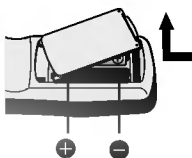
Notes on Remote Control

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

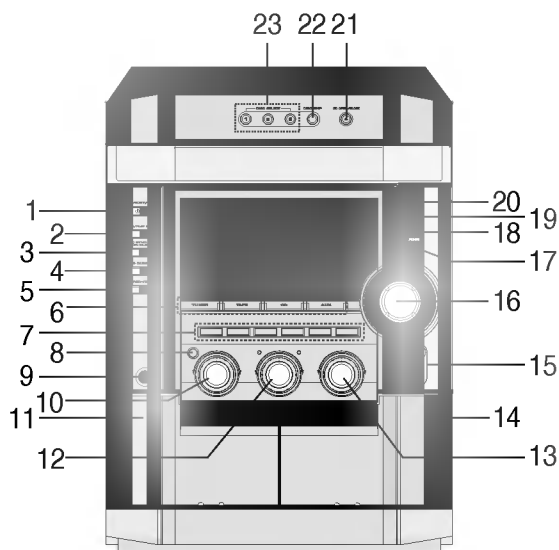
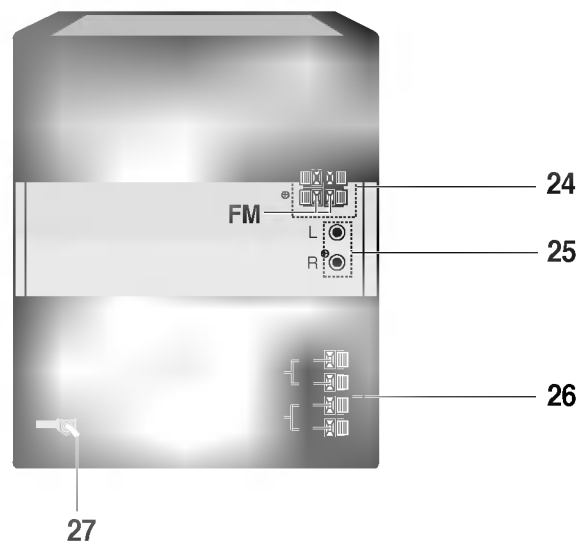


Detach the battery cover on the rear of the remote control, and insert two R03 (size AAA) batteries with **+** and **-** aligned correctly.

Caution

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

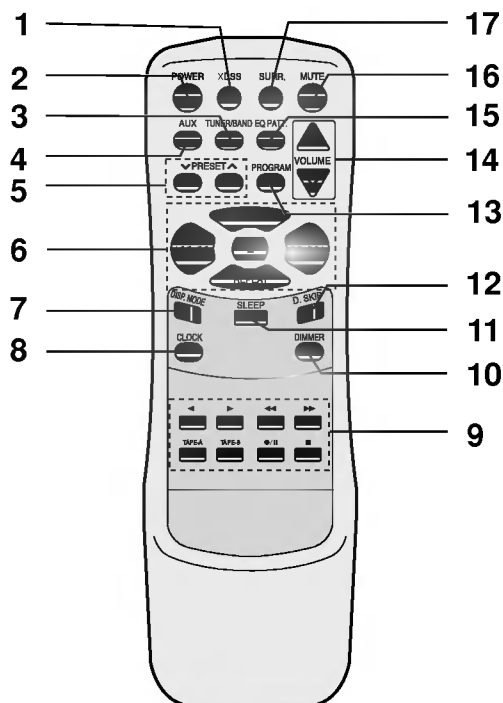
Front Panel/Rear Panel



1. POWER (STANDBY/ON) button
2. • PLAY MODE button
• DEMO button
3. • CD SYNC. button
• NORMAL DUBBING button
4. HIGH DUBBING button
5. RECORD/ RECORD PAUSE (● REC/II) button
6. FUNCTION SELECT buttons
(TUNER, TAPE, CD, AUX)
7. • TUNING DOWN button
• PRESET DOWN button
• REWIND (◀◀) button
• BACKWARD PLAY (◀) button
• STOP (■)/CLEAR button
• FORWARD PLAY (▶) button
• TUNING UP button
• PRESET UP button
• FAST FORWARD (▶▶) button
• CD PAUSE button
• SET (CLOCK/ TIMER) button
• COUNTER RESET button
8. • PROG. button
• MEMO. button
• ENTER button

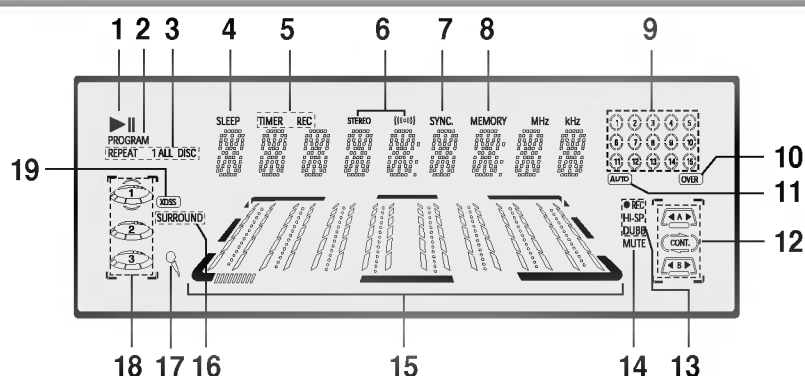
9. HEADPHONE SOCKET (PHONES): Ø6.3mm
10. EQUALIZER knob (EQ)
11. ▲ PUSH OPEN position - TAPE A (DECK A)
12. SURROUND ADJUST knob
13. MULTI JOG SHUTTLE
14. ▲ PUSH OPEN position - TAPE B (DECK B)
15. • MIC SOCKET (MIC): Ø6.3mm
• MIC VOLUME KNOB (MIC VOL.)
16. VOLUME DOWN/UP knob
17. XDSS button
18. MODE/RIF button
19. TIMER button
20. CLOCK button
21. CD OPEN/ CLOSE(CD▲) button
22. DISC SKIP button
23. DISC DIRECT PLAY buttons
(DISC1, DISC2, DISC3)
24. ANTENNA TERMINAL
25. AUXILIARY INPUT JACK
26. SPEAKER TERMINAL
27. POWER CORD

Remote Control



1. XDSS button
2. POWER button
3. TUNER/BAND button
4. AUX button
5. PRESET (V/Λ) button
6. CD FUNCTION buttons
 - PLAY/ PAUSE (▶/||) button
 - CD STOP (■) button
 - CD SKIP (◀◀◀/▶▶▶) button
 - FAST REWIND/ FAST FORWARD PLAY (◀◀◀/▶▶▶) button
 - REPEAT button
7. DISPLAY MODE button
8. CLOCK button
9. TAPE FUNCTION buttons
 - RECORD/ RECORD PAUSE (●/||) button
 - BACKWARD PLAY (◀) button
 - FORWARD PLAY (▶) button
 - TAPE STOP button (■)
 - FAST FORWARD PLAY (▶▶▶) button
 - FAST REWIND PLAY (◀◀◀) button
 - TAPE-A/B SELECT button
10. DIMMER button
11. SLEEP button
12. DISC SKIP (D.SKIP) button
13. PROGRAM button
14. VOLUME CONTROL (V/Λ) button
15. EQUALIZER PATTERN (EQ PATT.) button
16. MUTE button
17. SURROUND (SURR.) button

Display Window



1. PLAY/ PAUSE indicator
2. PROGRAM indicator
3. REPEAT indicator
4. SLEEP indicator
5. TIMER indicator
6. FM STEREO RECEIVING indicator
7. CD SYNC. indicator
8. MEMORY indicator
9. CD TRACK indicator
10. CD TRACK OVER indicator
11. AUTO TUNE RECEIVING indicator
12. • PLAY MODE SELECT indicator
- TAPE PLAY DIRECTION indicator
- TAPE A/B SELECT indicator
13. • RECORD/RECORD PAUSE indicator
- NORMAL DUBBING indicator
- HIGH DUBBING indicator
14. MUTE indicator
15. LEVEL indicator
16. SURROUND indicator
17. MIC indicator
18. DISC Number indicator
19. XDSS indicator

Connections

Speaker System Connection

Connect the speakers using the supplied speaker cords by matching the colors of the terminals and those of the cords. To obtain the best possible surround sound, adjust the speaker parameters (distance, level, etc.).



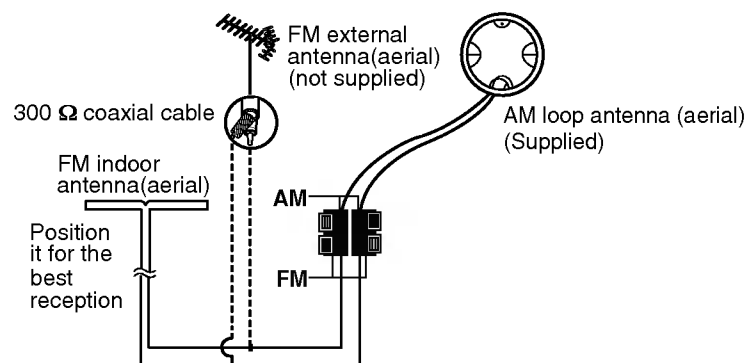
Notes

- 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 front 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.

Antenna (Aerial) Connections

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

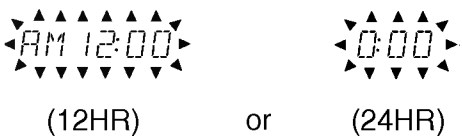
- Connect the AM loop antenna to the AM antenna connector.
- Connect the FM wire antenna (or FM "T" antenna) to the FM 300Ω coaxial connector.



Notes

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

Setting the CLOCK

- 1** Press **CLOCK**.
(If the clock is requires setting, press and hold **CLOCK** for more than 2 seconds.)
- The hours begin to blink.
- 2** Select a 24 hour cycle or 12 hour cycle by turning **MULTI JOG SHUTTLE**.


(12HR) or (24HR)
- 3** Press **SET** to confirm the selected hour cycle.
- 4** Use **MULTI JOG SHUTTLE** to set the correct hours.
- 5** Press **SET**.
- 6** Use **MULTI JOG SHUTTLE** to set the correct minutes.
- 7** Press **SET** and the correct time is shown on the display.
- 8** Press **CLOCK** at any time to display the time for about 5 seconds.

Sleep Function

When the sleep timer is used, the power is automatically turned 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 it turns off is displayed for about 5 seconds.

Note

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

To cancel the sleep timer mode

If you wish to stop the function, press the **SLEEP** button repeatedly until 10 appears, and then press **SLEEP** once again while 10 is displayed.

Using Microphone

You can sing to a music source by connecting a microphone to the unit.

- 1** Connect your microphone (not supplied) to the **MIC** socket.
- 2** Play a music you want.
- 3** Sing along with the accompaniment.
Adjust the microphone volume by turning **MIC VOLUME KNOB**.

For your reference

You can record during using microphone.
Refer to the "Recording" explanation section.

Notes

- When not using the microphone, set the **MIC** volume knob to minimum or turn off the **MIC** and remove the microphone from the **MIC** socket.
- If the microphone is set too near the speaker, a howling sound may be produced. In this case, move the microphone away from the speaker or decrease the sound level by using the **MIC** volume control.
- If sound through the microphone is extremely loud, it may be distorted. In this case, turn the **MIC** volume control toward minimum.

Timer Function

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

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

2 Press **"TIMER"** to enter the timer setting mode. (If you want to correct the previous memorized **TIMER** setting, press and hold the **"TIMER"** button more than 2 seconds.)
The previous memorized timer on time and **"TIMER"** appears in the display. Each function :
TUNER-CD-TAPE flashes in the display window in turn.

3 Press **SET** when the desired function is flashing.

4 If you select the **TUNER**:
PLAY and **REC** flash in the display window alternately for about 3 seconds. Press **SET** to confirm the desired operating mode.
REC: **TUNER** recording and play
PLAY: **TUNER** play only

- If you have selected the **CD** or **TAPE**, ignore step 4.

5 When you have selected the **TUNER**:
Select the previous memorized preset number with **MULTI JOG SHUTTLE** and press **SET**.
The hour **"ON"** display flashes.

- If you have selected the **CD** or **TAPE**, ignore step 5.

6 Set the hour to switch on by turning **MULTI JOG SHUTTLE**.

7 Press **SET** to confirm the hour to switch on.
The minute **'ON'** display flashes.

8 Set the minute to switch on by turning **MULTI JOG SHUTTLE**.

9 Press **SET** to confirm the minute to switch on.
The hour **'OFF'** now flashes in the display.

10 Set the hour to switch off turning **MULTI JOG SHUTTLE**.

11 Press **SET**.

12 Set the minute to switch off turning **MULTI JOG SHUTTLE**.

13 Press **SET**.

14 Adjust the volume level turning **MULTI JOG SHUTTLE**.

15 Press **SET**.
"TIMER" appears in the display window and the timer setting has been completed.

16 Switch the system off.
The selected function is automatically switched on and off at the time set.

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

Audio Adjustment

Volume Adjustment

- Turn **VOLUME DOWN/UP knob** clockwise to increase the sound level, or counterclockwise to decrease it.
- Press **VOLUME CONTROL (^)** to increase the sound level, or press the **VOLUME CONTROL (v)** to decrease it on the remote control.

Sound Quality Adjustment

- **To activate stereo sound**
 - You can choose between 8 fixed sound impressions and 1 USER MODE.
Select a desired sound mode by using the **EQ PATT.** button (or turning EQ knob on the front panel).
 - When you select USER MODE, press the **ENTER** button repeatedly.
You can select Three of sound mode (BASS, MIDDLE, TREBLE).
 - Each you press the button the indication changes as follows.
FLAT → ROCK → POP → VOCAL → CLASSIC
↑ ↓
USER MODE ← SAMBA ← SALSA ← JAZZ
- **Headphone Jack**
Connect a stereo headphone plug (ø6.3mm) into the headphone jack.
The speakers are automatically disconnected when you plug in the headphones (not supplied).

MUTE

Press **MUTE** to mute your unit.
You can mute your unit in order, for example, to answer the telephone, "MUTE" indicator flashes in the display window.

SURROUND

To activate surround mode

- You can choose between 6 fixed sound impressions.
- Select a desired surround mode by using the **SURROUND** button.
- Each you press the button the indication changes as follows.

SURROUND OFF → SIMULATED LOW → SIMULATED HIGH
↑ ↓
MOVIE HIGH ← MOVIE LOW ← MUSIC HIGH ← MUSIC LOW

DISPLAY MODE

Whenever you press **DISPLAY MODE**, you can enjoy the spectrum change with 6 types in the display.

XDSS (Extreme Dynamic Sound System)

- Press **XDSS** to reinforce treble, bass and surround effect.
- Each you press the button the indication changes as follows.

XDSS OFF → XDSS1 ON → XDSS2 ON

DEMO

Press **DEMO** in power off state to demonstrate the function in the display.

To cancel it, press **POWER** or **DEMO** again. During demonstration in power-on status you can cancel it by using the other buttons.

DIMMER

This function is darken the display window by half in power-on status. Press **DIMMER** once, and the display is darken, and if you press it once more, the display will darken by half too. To cancel it press the button again.

Auxiliary Function

1

Connect an auxiliary device i.e. TV or VCR, via the rear mounted AUX phone jacks.

2

Press **AUX**.

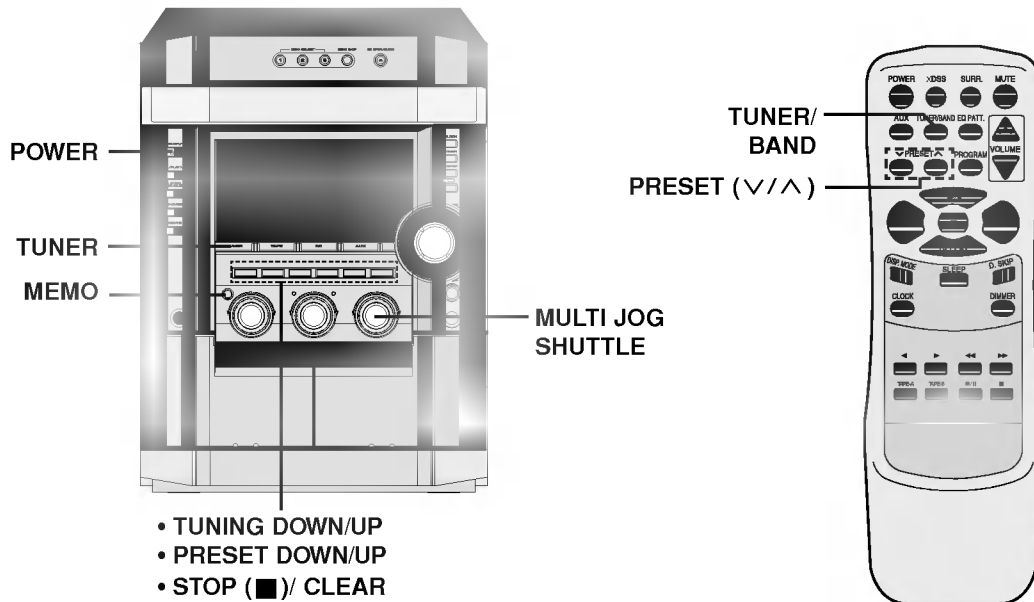


Notes

You can also record from the auxiliary input source, see Recording Section.

Presetting the radio stations

You can preset 30 stations for FM and AM. Before tuning, make sure that you have turned down the volume to the minimum.



- 1** Press **POWER** to turn on the unit.
- 2** Press **TUNER** or **TUNER/BAND** until the FM or AM appears in the display window.
- 3** And then every time you press **TUNER** or **TUNER/BAND**, FM and AM changes alternately.
- 4** Press **TUNING DOWN/UP** on the front panel until the frequency indication starts to change, then release.
Scanning stops when the unit tunes in a station.
- 5** Press **MEMO** on the front panel.
A preset number will flash in the display window.
- 6** Press **PRESET DOWN/UP** (or **PRESET (V/Λ)** on the remote control) to select the preset number you want.
- 7** Press **MEMO** on the front panel again.
- The station is stored.
- 8** Repeat steps 3 to 6 to store other stations.

To tune in a station with a weak signal

Turn **MULTI JOG SHUTTLE** in step 3 to tune in the station manually.

To clear all the memorized stations

Press and hold **MEMO** on the front panel for about two seconds, "CLEAR" appears in the display window and then press **CLEAR** again, the stations are cleared.

For your reference

If all stations have already been entered, 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 6-7 on the left side.

To recall presets

Press and hold **PRESET DOWN/UP** (or **PRESET (V/Λ)** on the remote control) until the desired preset number appears or press it repeatedly.

Tuning in automatically

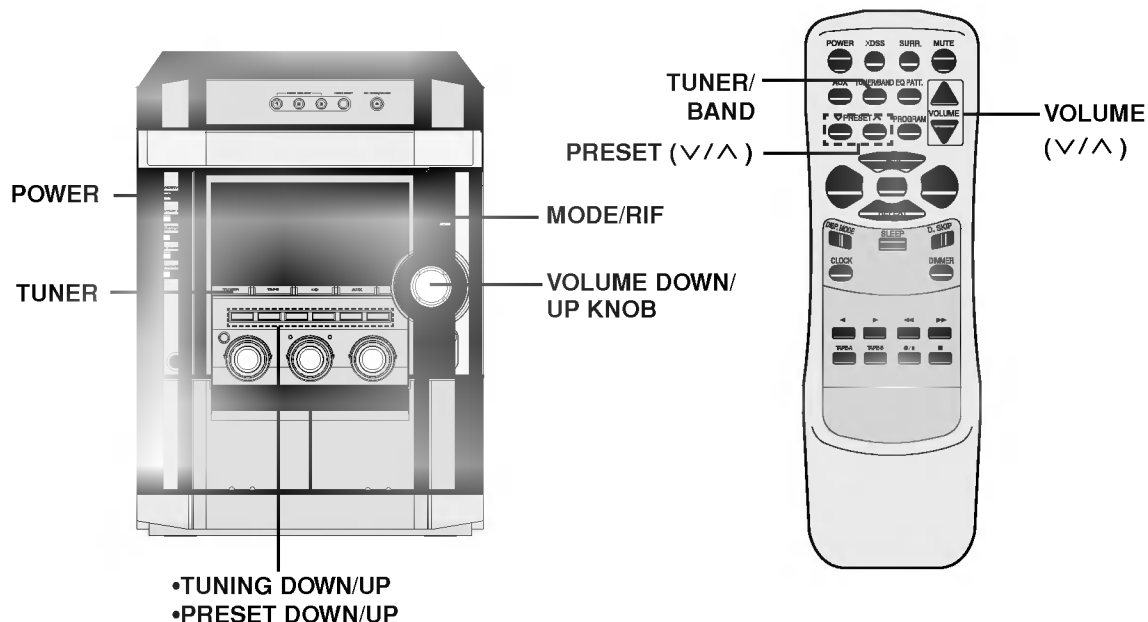
Press **TUNING DOWN/UP**.

Tuning in manually

Turn **MULTI JOG SHUTTLE**.

Listening to the radio

Preset radio stations in the units memory first (see "Presetting radio stations" on the previous page).



OPERATION

- 1** Press **TUNER** or **TUNER/BAND** until **AM** or **FM** appears in the display window.
The last received station is tuned in.
- 2** Press **PRESET DOWN/UP** (or **PRESET V/^** on the remote control) repeatedly to select the preset station you want.
Each time you press the button, the unit tunes in one preset station at a time.
- 3** Adjust the volume by rotating **VOLUME DOWN/UP KNOB** (or pressing **VOLUME (V/^)** on the remote control) repeatedly.

To listen to non-preset radio stations

- For manual tuning, see "Tuning in manually" on the previous page.
- For automatic tuning, see "Tuning in automatically" on the previous page.

To turn off the radio

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

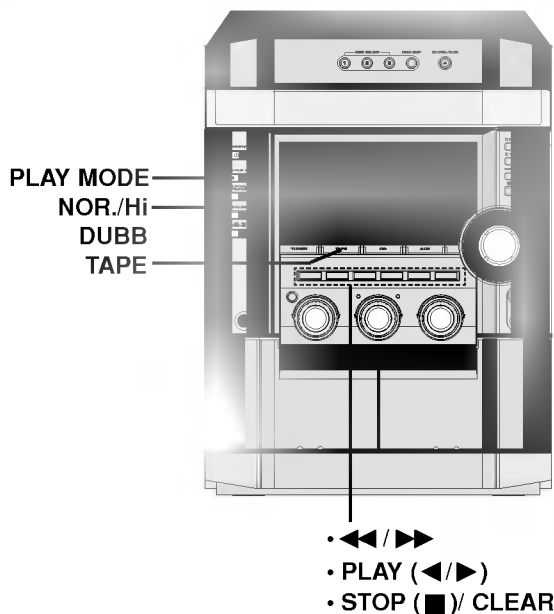
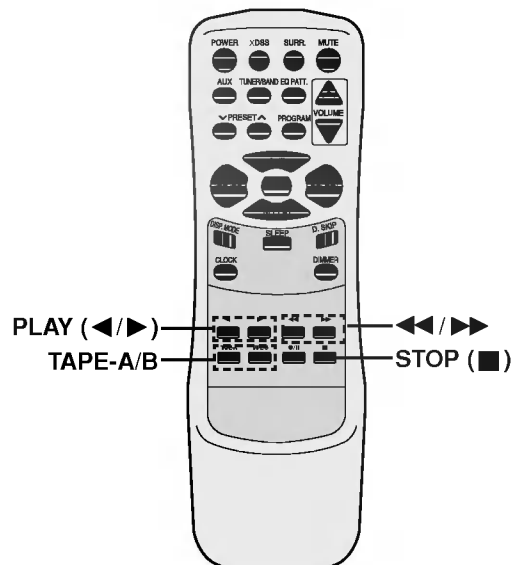
For your reference

- If an FM program is noisy**
Press **MODE/RIF** so that "STEREO" disappears in the display window. There will be no stereo effect, but the reception will improve. Press **MODE/RIF** again to restore the stereo effect.
- To improve reception**
Reposition the supplied antennas.

Notes

- Use **MODE/RIF** (Radio Interference Filter) function to switch the mono reception if stereo reception is distorted by noise.
- When recording the **MW(AM)** or **LW** broadcast, beat noises occur. If it does, press **MODE/RIF** once.

Tape Playback



Basic Playback

- 1** Press **TAPE** repeatedly or **TAPE-A/B** to select **TAPE A** or **TAPE B**.
("NO TAPE" appears in the display window.)
- 2** Open cassette **TAPE A** (or **B**) by pushing **▲ PUSH OPEN** position.
- 3** Insert one or two cassette with the tape side to the bottom and then close the **TAPE A** (or **B**).
- 4** Press **PLAY** (▶ or ◀).

AUTO REVERSE DECK (TAPE A/B)

You can select direction of the cassette you want by pressing **PLAY MODE**.

Pressing	Display	Function
Once	⇒ ⇐	After the cassette of TAPE A or B plays front or reverse (backward play) side, stops automatically.
Twice	⇒ ⇐)	After the cassette of TAPE A or B plays front and reverse side, stops automatically.
Three times	(⇒⇐)	After the cassette of TAPE A or B plays six times repeatedly front and reverse side, stops automatically.
Forth	(⇒⇐) (CONT.)	After a cassette of TAPE A and B plays six times repeatedly front and reverse side, stops automatically.

To Stop Play

Press **STOP**(■) during playback.

Tape Counter Reset

Press **COUNTER** during playback.

Playing time appears "TAP A(or B) 0000" in display window.

To Play Fast Rewind or Fast Forward

After pressing and holding ◀◀/▶▶ on the front panel or ◀◀/▶▶ on the remote control during playback, press **PLAY** (▶) at the point you want.

Dubbing

This function shows how to record from tape to tape.

- 1** Press **TAPE** or **TAPE-A/ B**.
 - Cassette **TAPE A**- Insert a playback tape to dub.
 - Cassette **TAPE B**- Insert a blank tape.

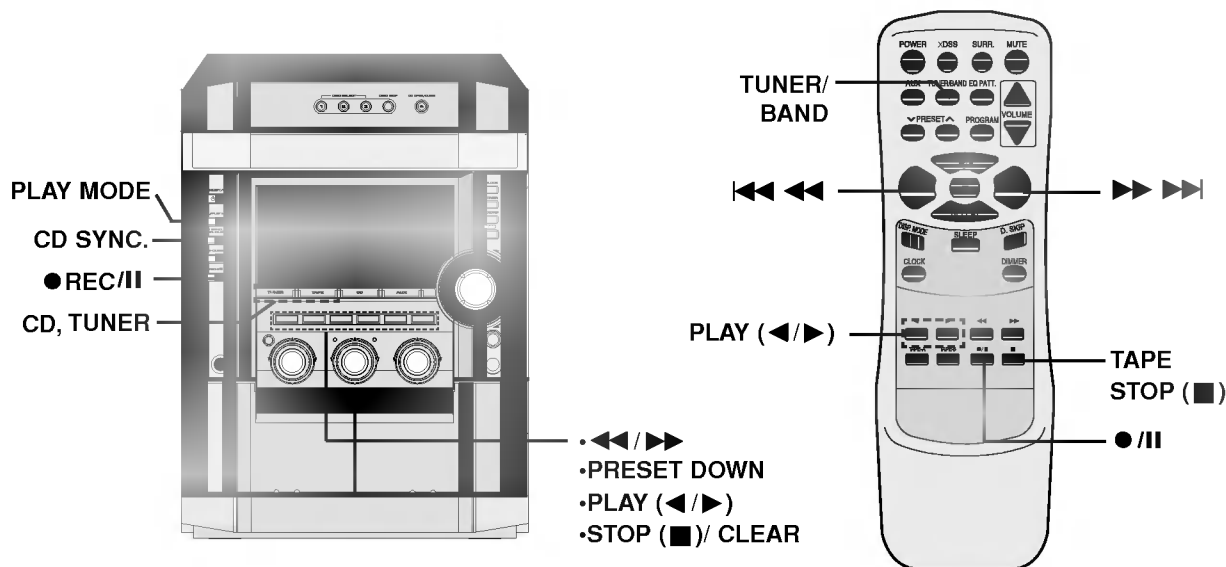
- 2** Press **NOR./ Hi DUBB.** as follow.

Pressing	Display	Function
NOR.- DUBBING	● REC DUBB.	Normal speed dubbing
Hi- DUBBING	● REC HI-SP. DUBB.	Double speed dubbing

To stop dubbing, Press **STOP**(■).

Recording

Wind the tape to the point recording starts.
Use only normal tapes.
You can record from cassette deck B only.



Basic Setting

1 Press CD or TUNER/BAND.

2 Open the cassette TAPE B and insert a blank cassette into the cassette compartment.

To set the recording direction

Press **PLAY MODE** repeatedly to set the recording direction.

Pressing	Display	Function
Once	→	Recording front side.
Twice	→)	Recording front and reverse side.
Three times	(→	
Forth	(→ CONT)	

Recording from Radio, CD or Auxiliary source

1 Press RECORD/ RECORD PAUSE (●REC/II or ●/II) button .
“●REC” flashes and holds the cassette in pause mode.

2 Press PLAY(▶) on the front panel.
The recording begins.

To Pause recording

To pause the recording, press RECORD/ RECORD PAUSE (●REC/II or ●/II) button again.
“●REC” flashes in display window.

To Stop recording

Press TAPE STOP(■).

CD to Tape Synchronized Recording

The CD synchro recording function dubs a complete CD and programmed titles automatically into a cassette.

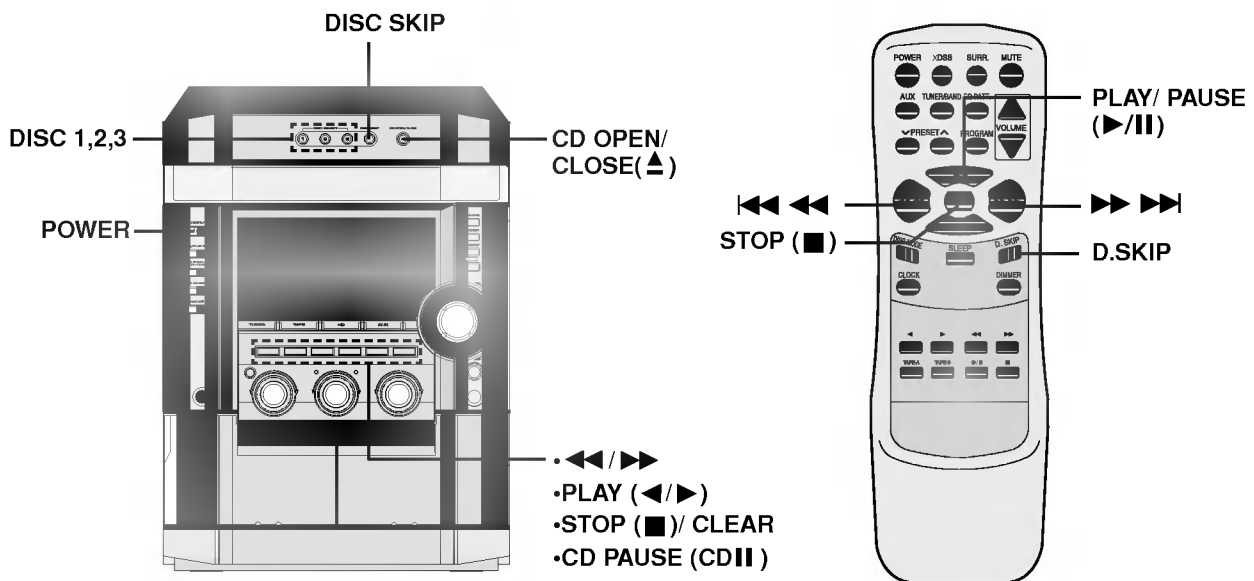
1 Press CD SYNC. in stop mode.
“●REC” flashes and “CD SYNC” displays in the display window.

2 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.
- The function change is not possible during recording.

CD Playback



Basic Playback

- 1** Press POWER to turn on the unit.
- 2** Press the CD button to enter the CD mode.
If no disc is entered in the disc drawer, the "NO DISC" indicator is displayed.
- 3** Press CD OPEN/CLOSE (CD ▲) and place the disc into the disc tray.
The disc on the left (DISC 1) is played first.



Note

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

- 4** Press CD OPEN/CLOSE (CD ▲) to close the disc compartment.
- 5** Press PLAY (▶) or PLAY/ PAUSE (▶/||) on the remote control.

To Pause Play

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

Press this button again it to resume play.

To Stop Play

Press STOP (■) during playback.

To Skipping the Track

- Press ▶▶ on the front panel or CD SKIP ▶▶ ▶▶ on the remote control to go to the next track.
- When ◀◀ button on the front panel or CD SKIP ◀◀ ◀◀ button on the remote control 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 Play Fast Rewind or Fast Forward

After pressing and holding ◀◀/▶▶ on the front panel or ◀◀ ◀◀/▶▶ ▶▶ on the remote control during playback, press PLAY (▶) at the point you want.

To Go to the next discs

Press DISC SKIP or D.SKIP during playing or stopping.

To Select a disc directly

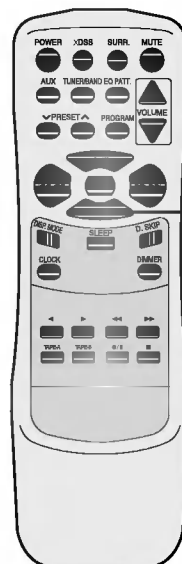
Press DISC 1, DISC 2 or DISC 3 during playing or stopping.

When you press DISC 1-3 before playing a disc, the unit will automatically start playing the selected disc.

CD Playback (Cont'd)



CD OPEN/CLOSE(▲)



REPEAT

OPERATION

To Replace discs during Playback

You can open the disc tray during playing a disc to check what discs are to be played next and replace discs without interrupting playback of the current disc.

- 1 Press the CD OPEN/CLOSE (CD ▲).**
The disc tray is opened. Two disc compartments appear. Even if the unit is playing a disc, it doesn't stop playing.

- 2 Replace discs in the compartments with new ones.**
The unit plays the disc in the left compartment after the current disc, and then the one in the right compartment.

- 3 Press CD OPEN/CLOSE (CD ▲).**
The CD door is closed.

N Notes

- Do not place more than one compact disc on one disc tray at the same time.
- Do not push the disc tray to close CD door, as you may damage the unit.

To Repeat Play

To play one track repeatedly.

Press **REPEAT** once during playback.
- "REPEAT 1" appears in the display window.

To play one disc repeatedly.

Press **REPEAT** again during playback.
- "REPEAT 1 DISC" appears in the display window.

To play all tracks on all discs repeatedly

Press **REPEAT** once more during playback.
- "REPEAT ALL DISC" appears in the display window.

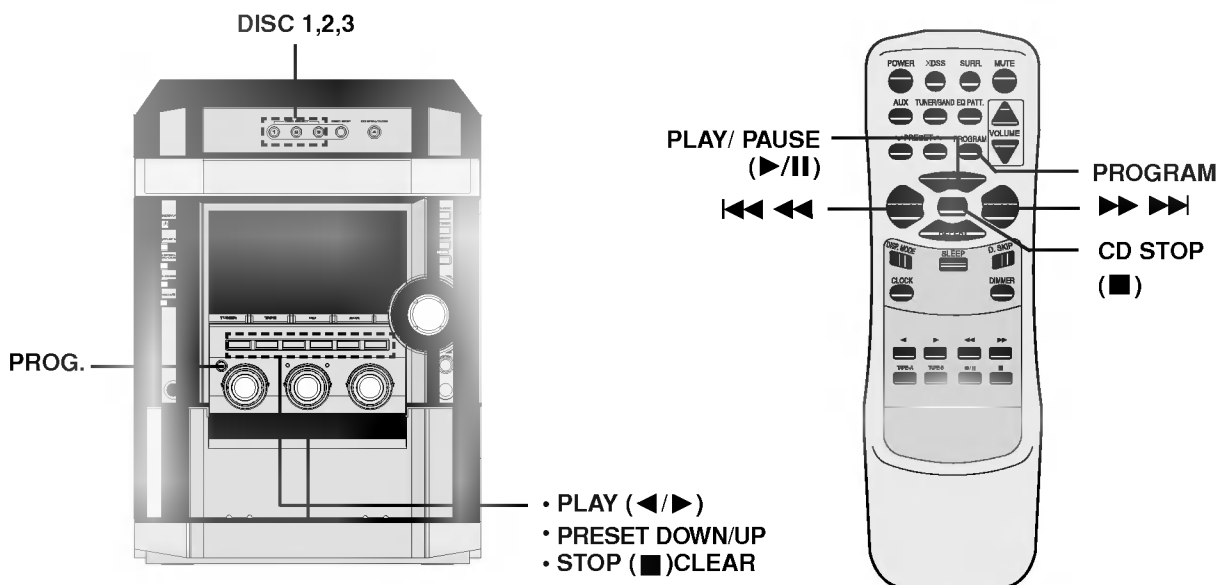
To cancel repeat play

- Press **REPEAT** several times until repeat indicators disappear.

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 DISC" appears in the display window. (All program repeat)

CD Playback



To 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.** (or **PROGRAM** on the remote control) on the stop mode.
- 2** Press **D.SKIP** or **DISC DIRECT PLAY (DISC1/2/3)** to select the disc.
- 3** Press **PRESET DOWN/UP** or **MULTI JOG SHUTTLE** on the front panel or **CD SKIP ◀◀◀ / ▶▶▶** on the remote control to select the track.
- 4** Press **PROG.** (or **PROGRAM** on the remote control).
- 5** Repeat 1~4.
- 6** Press **PLAY(▶)** (or **PLAY/ PAUSE (▶/||)** on the remote control).

To check program contents

Press **PROG.** (or **PROGRAM** on the remote control) on the stop mode.

- The disc, track and program number will be displayed.

To clear program contents

Press **PROG.** (or **PROGRAM** on the remote control) on the stop mode. And then press **CLEAR** on the front panel or **CD STOP(■)** on the remote control.

To add program contents

1. Press **PROG.** (or **PROGRAM** on the remote control) repeatedly on the program stop mode until "Disc Number" blinks.
2. Repeat 2~5 on the left side.

To modify program contents

1. Press the **PROG.** (or **PROGRAM** on the remote control) to display program number you want to modify.
2. Repeat 2~4 on the left side.

Troubleshooting

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

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

Specifications

[General]		Power supply	AC 120V, 60Hz
		Power consumption	190W
		Mass	10.5kg
		External dimensions (W x H x D)	280 x 370 x 399 mm
[CD]		Frequency response	40 - 18000 Hz
		Signal-to-noise ratio	70 dB
		Dynamic range	70 dB
[Tuner]	FM	Tuning Range	87.5 - 108.0 MHz
		Intermediate Frequency	10.7 MHz
		Signal to Noise Ratio	61/58 dB
		Frequency Response	60 - 10000 Hz
	AM (MW)	Tuning Range	530 - 1720 kHz
		Intermediate Frequency	450 kHz
		Signal to Noise Ratio	35 dB
		Frequency Response	100 - 1900 Hz
[Amp]		Output Power	200W + 200W
		T.H.D	0.15%
		Frequency Response	25 - 25000 Hz
		Signal-to-noise ratio	80 dB
[TAPE]		Tape Speed	4.75cm/sec
		Wow Flutter	0.25% (MTT -111, JIS-WTD)
		F.F/REW Time	120sec (C-60)
		Frequency Response	125 - 8000Hz
		Signal to Noise Ratio	43dB
		Channel Separation	50dB(P/B)/45dB(R/P)
		Erase Ratio	55dB (MTT-5511)
[Speakers]		Model name	F-986S
		Type	3Way 3Speaker
		Impedance	6Ω
		Frequency Response	45-20000Hz
		Sound Pressure Level	85 dB/W (1m)
		Rated Input Power	200W
		Max. Input Power	400W
		Net Dimensions (W x H x D)	281X416X319.5mm
		Net Weight	7.8kg

* Designs and specifications are subject to change without notice.

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