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English
Spanish

MIDI HI-FI AUDIO SYSTEM

Owner's Manual

MODELS : FFH-5600A/L/S/AX/AP
FE-5600E
FFH-8900A/L/S/AX/AP
FE-8900E

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

P/N: 3828SXD014Z

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CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

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.

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.

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

(FOR THE CUSTOMERS IN EUROPE)
If this product is marked with the CE-symbol, it means which is conformed to EMC regulation 89/336/EEC.

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.

(FOR CUSTOMERS IN CANADA)
CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE, OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.
This class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

WARNING:
SHOCK HAZARD - DO NOT OPEN

MISE EN GARDE:
Pour éviter les chocs électriques, n'utilisez pas cette fiche (polarisée) avec une rallonge, un réceptacle ou une autre prise si vous ne pouvez pas y insérer les broches à fond.

MISE EN GARDE
Cet appareil numérique de la classe B respecte toutes les exigences de Règlement sur le matériel brouilleur de Canada.

AVERTISSEMENT
RISQUE DE CHOC ELECTRIQUENE-PAS OUVRIR
(FOR CUSTOMERS IN THE UNITED STATES OF AMERICA)

Note to CATV system Installer:
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

NOTE:
The interference potential to the device.
This equipment generates and uses radio frequency energy and if not installed and used properly, that is in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in subparts J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user in encouraged to try to correct the interference by one of more of the following measures:
- Reorients 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.

(FOR CUSTOMERS IN THE UNITED KINGDOM)
WIRING INSTRUCTIONS
This appliance is supplied with a BS1363 approved 13 amp fused mains plug. When replacing the fuse always use a 3/5 amp BS1362 approved type. Never use this plug with the fuse cover omitted. To obtain a replacement fuse cover contact your supplying dealer or "LG ELECTRONICS U.K.LTD".
If the mains sockets in your home differ, or are not suitable for the type of plug supplied, then the plug should be removed and a suitable type fitted. Please refer to the wiring instructions below:

Warning :
The mains plug severed from the mains lead of this appliance must be destroyed. A mains plug with bared wires is hazardous if engaged in a mains output line socket.

IMPORTANT
The wires in this mains lead are coloured in accordance with the following codes:

Blue	:	Neutral
Brown	:	Live

As the colour of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.
If a 13 amp BS1363 plug or any other type of plug is used, 3/5 amp BS1362 approved fuse must be fitted either in the plug or at the distribution board.

Warning :
Do not connect either wire to the earth pin, marked with the letter E or with the earth symbol ⏚ or coloured green or green and yellow.

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IMPORTANT SAFETY INSTRCTIONS

FOR CUSTOMERS IN THE UNITED STATES

CAUTION:

- Read all of these instructions.
- Save these instructions for later use.
- Follow all warnings and instructions maked on the audio equipment.

- **Read instructions -** All the safety and operating instructions should be read before the product is operated.
- **Retain instructions -** The safety and operating instructions should be retained for future reference.
- **Heed Warnings -** All warnings on the product and in the operatiog instructions should be followed.
- **Follow instructions -** All operating and use instructions should be followed.
- **Cleaning -** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- **Attachments -** Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- **Water and Moisture -** Do not use this product near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- **Accessories -** Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a stand, tripod, bracket, or table recommended by the manufactur or sold with the product. Any mounting of the product should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.
- **A product and cart combination** should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

- **Ventilation -** Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. 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 followed.
- **Power Sources -** This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- **Grounding or Polarization -** This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety pupose of the polarized plug.
- **Power-Cord Protection -** Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
- **Protective Attachment Plug -** The product is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or restting or protective device. If replacement of the plug is required, be sure the service technician has used a replacement play specified by the manufacturer that has the same overload protection as the original plug.
- **Lightning -** For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

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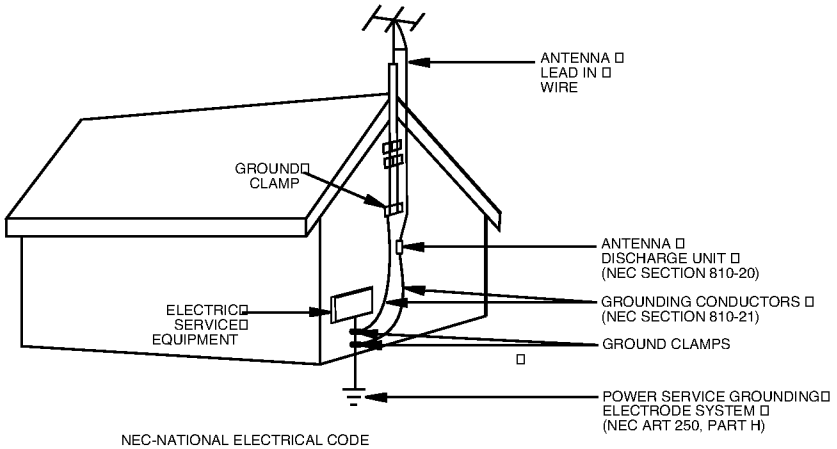
IMPORTANT SAFETY INSTRCTIONS



NEC-NATIONAL ELECTRICAL CODE

- **Outdoor Antenna Grounding -** If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges.
- **Article 810 of the National Electrical Code,** ANSI/NFPA 70 proviedes information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
- **Power Lines -** An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- **Overloading -** Do not overload wall outlets, extension cords, or integral convenience receptacles, as this can result in a risk of fire or electric shock.
- **Object and Liquid Entry -** Never push objects of any kind into this poroduct through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- **Servicing -** Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- **Damage Requiring Service -** Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  a) When the power-supply cord or plug is damaged.
  b) If liquid has been spilled, or objects have fallen into the product.
  c) If the product has been exposed to rain or water.
  d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
  e) If the product has been dropped or damaged in any way.
  f) When the product exhibits a distinct change in performance, this indicates a need for service.
- **Replacement Parts -** When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- **Safety Check -** Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- **Wall or Ceiling Mounting -** The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
- **Heat -** The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

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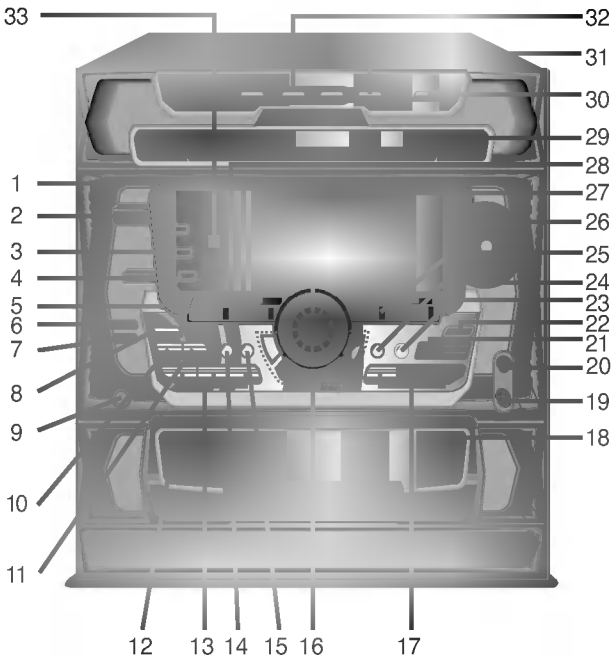
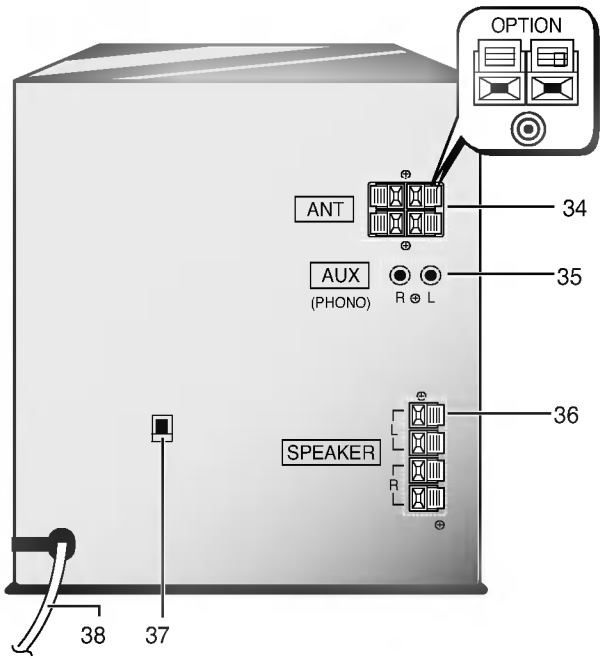
OPERATING ELEMENTS

FRONT VIEW



BACK VIEW



FRONT VIEW

1. MDSS(Multi Dynamic Sound System) button
2. POWER button
3. HI-TONE button
4. DEMO button
5. UBB (Ultra Bass Booster) button
6. CLOCK button
7. TIMER button
8. DISPLAY MODE button
9. HEADPHONE socket(PHONES)
10. PROGRAM/MEMORY button
11. CD REPEAT button
12. DECK A(PLAYBACK)
13. EQ. PATTERN button(FLAT, ROCK, POP)
14. MODE/RIF button
15. RECORD/RECORD PAUSE button
16. TUNING DOWN/UP, TAPE REWIND/FAST FORWARD, CD TRACK SKIP/SEARCH buttons
17. EQ PATTERN(VACAL, CLASSIC, JAZZ) button
18. DECK B(REC/PLAY)
19. MIC socket(OPTIONAL)
20. MIC volume(OPTIONAL)
21. DUBBING(Normal/High Speed) button
22. PLAY MODE/COUNTER RESET(OPTIONAL)
23. CD PAUSE/COUNTER RESET
    CD PAUSE(OPTIONAL)
24. CD SYNCRO RECORDING button
25. FUNCTION SELECT button(TAPE A/B, AUX)
26. VOLUME Knob
27. JOG DIAL
    - PRESET DOWN/UP
    - ADJUST DOWN/UP(CLOCK/TIMER)
    - SKIP DOWN/UP(CD TRACK)
28. TUNER/BAND, CD button
29. CD DOOR
30. CD OPEN/CLOSE button
31. DISK SKIP button
32. CD DIRECT PLAY buttons(DISC 1, 2, 3)
33. REMOTE SENSOR

BACK VIEW

34. ANTENNA(AERIAL) terminal
35. AUXILIARY/PHONO(OPTIONAL) INPUT socket
36. SPEAKER terminal
37. VOLTAGE SELECTOR(OPTIONAL)
38. POWER CORD

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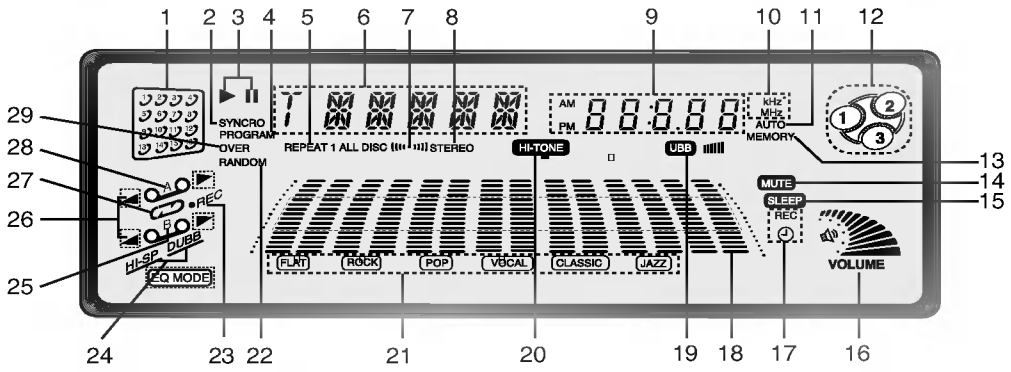
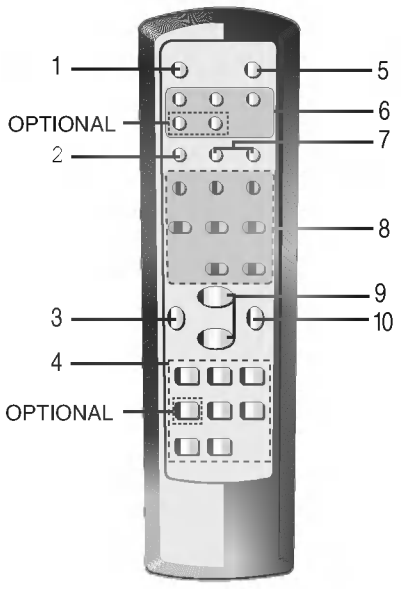
FUNCTION DISPLAY



1. CD MUSIC CALENDAR indicator
2. CD SYNCHRO RECORDING indicator
3. CD PLAY/PAUSE indicator
4. CD PROGRAM indicator
5. CD REPEAT indicator
6. FUNCTION, VOLUME LEVEL, MDSS, HI-TONE, UBB display
7. FM STEREO RECEIVING indicator
8. FM STEREO indicator
9. CLOCK, TAPE COUNTER, CD PLAYING TIME, FREQUENCY display
10. RIF(Radio Interference Filter) indicator
11. AUTO TUNING indicator
12. DISC NO. indicator
13. MEMORY indicator
14. MUTE indicator
15. SLEEP indicator
16. VOLUME LEVEL indicator
17. TIMER indicator
18. LEVEL indicator
19. UBB indicator
20. HI-TONE indicator
21. EQ PATTERN indicator
22. CD RANDOM PLAY indicator
23. RECORD/RECORD PAUSE indicator
24. TAPE DUBBING indicator (High Speed/Normal Speed)
25. DECK B TAPE entered
26. TAPE DIRECTION indicator
27. PLAY MODE indicator (USE ONLY AUTO REVERSE DECK)
28. DECK A TAPE entered
29. CD MUSIC CALENDAR OVER indicator

REMOTE CONTROL



1. POWER button
2. SLEEP button
3. MUTE button
4. DECK CONTROL buttons
   - · DECK A = DECK A Select
   - · DECK B = DECK B Select
   - · RECORD/RECORD PAUSE(●/❚❚)
   - · FORWARD PLAY (►)
   - · BACKWARD PLAY (◄) : OPTIONAL
   - · STOP (■)
   - · REWIND/FAST FORWARD(◄◄/►►)
5. MDSS(Multi Danamic Sound System) button
6. FUNCTION SELECT buttons
   - · TUNER(BAND)
   - · CD
   - · TAPE
   - · AUX/PHONO(OPTIONAL)
7. PRESET ▼/▲ buttons
8. CD CONTROL buttons
   - · PLAY/PAUSE(►/❚❚)
   - · SKIP/SEARCH(⏮◄◄/►►⏭)
   - · STOP/CLEAR (■)
   - · RANDOM
   - · DISC SKIP
   - · REPEAT
   - · PROGRAM
9. VOLUME ∧/∨ button
10. EQ PATTERN button

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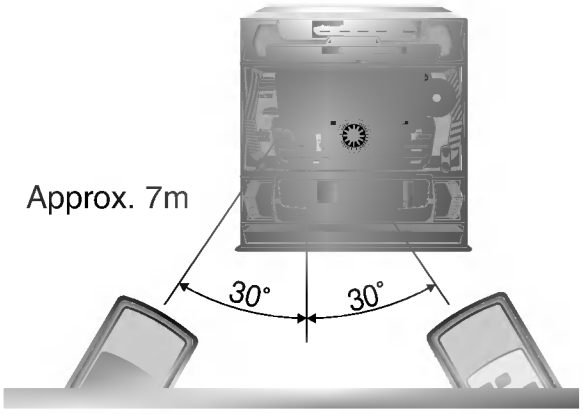
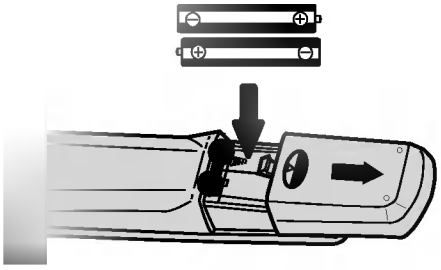
REMOTE CONTROL





Control Range

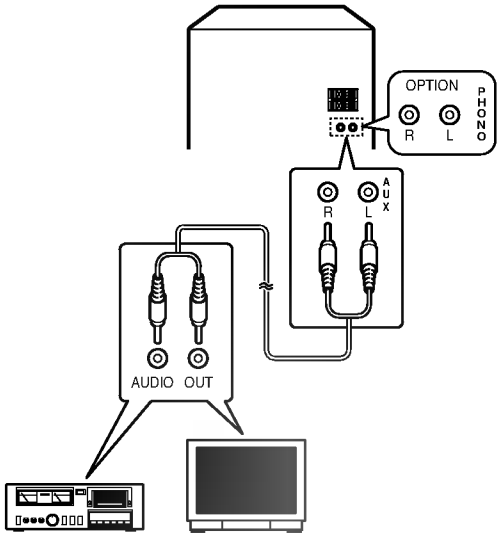
The remote control device is designed for the range shown in the illustration.

NOTE
Strong light or obstacles between the remote control device and the stereo system may interfere with the functioning of the remote control.

Notes on Batteries

- Your remote control comes with batteries. Use two "AAA(UM-4. IEC R03)" type high quality batteries.
- When the remote control fails to operate accurately at maximum distance from the unit. Replace the worn out batteries with new ones.
- Install two "AAA" type batteries, observing correct battery polarity(⊕ and ⊖). Reversed battery polarity might damage the unit.
- Do not use different types of batteries together, or an old ones with new one.
- When you are not going to use the unit for a long time, remove the batteries to prevent possible electrolyte leakage.

CONNECTIONS

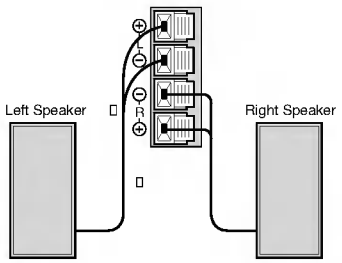


Connection the AUX or PHONO Sockets

Two phono sockets marked '**AUX**' are provided on the back of the unit for connecting other units(for example, a record player with a pre amplifier, video recorders or tape recorders.)
But if your system has the 'PHONO R/L' sockets, you can play by connecting the external recordplayer.

Connection the Loud Speakers

Insert the red wire of the right/left hand speaker into the red terminal marked(⊕) at the back of the unit.
Insert the black wire into the black terminal marked(⊖).



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CONNECTIONS

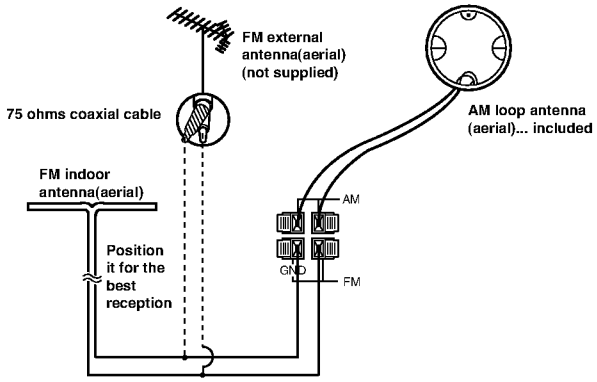
Antenna(aerial) Connection

For the models for other countries figure ●, ●.
For the European and U.K. model figure ●, ●.

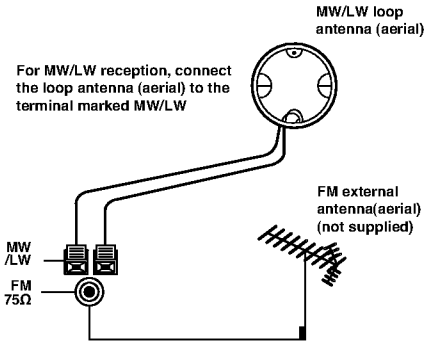
IMPORTANT

FM Antenna (aerial) Connection
Unless radio signals are very weak, no external antenna is necessary, simply connect the supplied FM indoor antenna (aerial) wire to the terminal marked FM on the back of the unit.

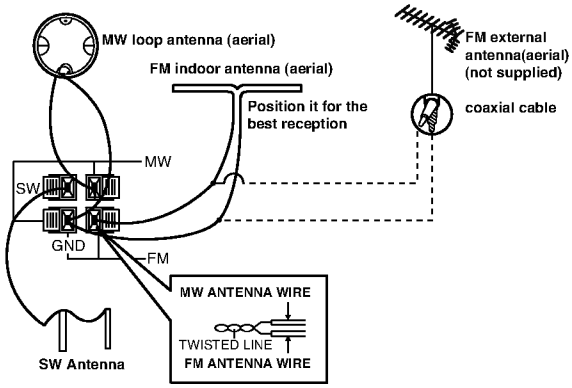
● 2 BAND(FM/AM) AREA



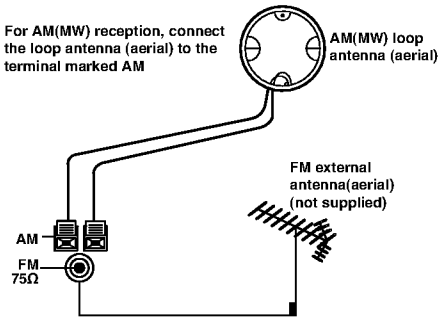
● 3 BAND(FM/MW/LW) AREA



● 3 BAND(FM/MW/SW) AREA



● 2 BAND[FM/AM(MW)] AREA



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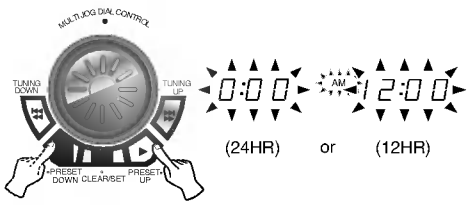
CLOCK SETTING

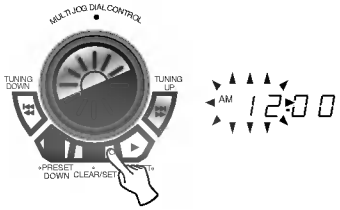
Example : Set to 9:25 in the morning

1. **Press the CLOCK button.**(If the clock is already set, press and hold the **CLOCK** button for more than 1.5 seconds)
   - The hours begin to blink.

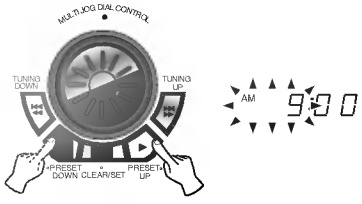
2. **Select a 24 hour cycle or 12 hour cycle by pressing PRESET DOWN(◁) or UP (▷) button (or turn the JOG DIAL).**



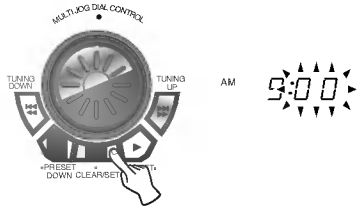
3. **Press the CLEAR/SET button.**



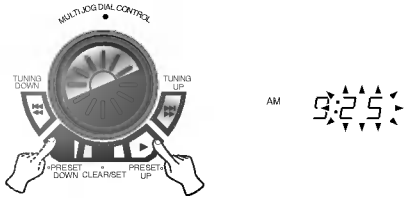
4. **Set the hour with PRESET DOWN(◁) or UP (▷) button (or turn the JOG DIAL).**



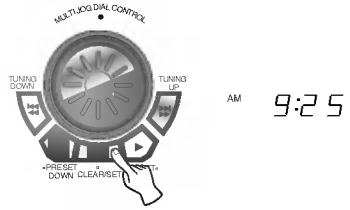
5. **Press the CLEAR/SET button.**



6. **Set the minute with PRESET DOWN(◁) or UP (▷) button (or turn the JOG DIAL).**



7. **Press the CLEAR/SET button.**
   The clock starts operating.



Information on the time
AM 12:00 = midnight
PM 12:00 = noon

NOTE:
When a power interruption occured more than 10 seconds.
The clock setting is erased, and "--:--" will flash on the display.

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BEFORE OPERATING

Volume Adjustment

Turn VOLUME clockwise to increase the sound level, or counterclockwise to decrease it.
(Or press VOLUME + or – button on the remote commander.)

Sound Quality Adjustment

- **MDSS(Multi dynamic sound system)**
  Press the MDSS button to reinforce treble(Hi-Tone), bass(UBB) and surround effect.
  The HI-TONE & UBB indicator lights up. To cancel it, press the MDSS button again.
- **Toreinforce bass**
  Press **UBB** repeatedly so that the 'UBB-1' or 'UBB-2' is scrolled on the display. To cancel it, press the button so that 'UBB-OFF' is scrolled.
- **To reinforce treble**
  Press Hi-TONE.
- **To activate stereo sound**
  You can choose between 6 fixed sound impressions: select a desired sound mode by using the EQ PATTERN button.

FLAT	: linear frequency response
ROCK	: more bass, more treble
POP	: less bass, less treble
VOCAL	: put an emphasis on the vocal sound
CLASSIC	: for orchestral music
JAZZ	: fill like an jazz club, if effectively creates the flavor of harmony and mood.

- **For personal listening**
  Connect headphone to headphone socket. No sound comes from the speakers.

MUTE button(on remote control)

Press this button to mute your unit.
You can mute your unit in order, for example, to answer the telephone.
The **MUTE** indicator appears on the display.

MODE/RIF(Radio Interference Filter) button

To switch from mono to stereo reception and vice versa. If the power of transmission is too weak to receive stereo FM without interference, switch the STEREO off.
When a MW(AM), or LW broadcasting is being recorded, the R.I.F.(BEAT-SWITCH) button can be used to reduce unwanted "beat" signals and noise, which were not heard before recording.

DEMO button

Press this button in power-off or power-on state to demonstrate for the functions in the display.
To cancel it, press the POWER button or DEMO button. During the demonstration the POWER button, DEMO button and VOLUME are operated only.

RADIO RECEPTION

Tuning in Automatically

1. Turn on the power.
2. Press **TUNER/BAND** button repeatedly until the desired band appears.
3. Keep **TUNING DOWN/UP**(|◀◀ ◀◀ or ▶▶ ▶▶|) button depressed for more than 0.5 second.
   "AUTO" appears in the display and the unit tunes in a station automatically.

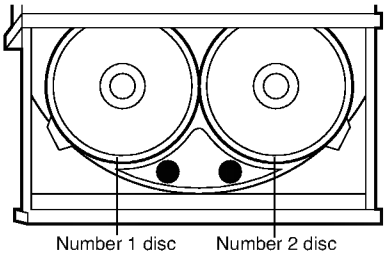
Tuning in Manually

1. Turn on the power.
2. Press **TUNER/BAND** button repeatedly until the desired band appears.
3. Press TUNING DOWN/UP(|◀◀ ◀◀ or ▶▶ ▶▶|) button briefly and repeatedly, until the desired station appears.

Storing Stations

1. **To clear any programme previously stored in any memory.**
   - Press the **PROGRAM/MEMORY** button more than 1.5 seconds in TUNER mode so that **CLEAR** is blinked in the display.
   - Press the **CLEAR/SET** button while **CLEAR** is blinked in the display.
2. **To memorize the stations in order**
   - Press the **TUNER/BAND** button to select a desired waveband.
   - Press the **TUNING DOWN/UP** (|◀◀ ◀◀ or ▶▶ ▶▶|) button to select a desired station.
   - Press the **PROGRAM/MEMORY** button. **MEMORY** appears and preset number blinks.
   - Press the **PROGRAM/MEMORY** button again while preset number is blinked.
   - Repeat step ● to ● to be memorized up to 30 stations.
3. **To memorize in selecting or adding channel number.**
   - Select a desired station.
   - Press the **PROGRAM/MEMORY** button.
   - Select a desired channel number by turning the JOG DIAL or pressing the PRESET DOWN/UP button, while the MEMORY appears and preset number blinks.
   - Press the **PROGRAM/MEMORY** button again before stop the channel number blinking.
4. **To recall presets.**
   - Press and hold the **PRESET DOWN/UP** (◁/▷) button until the desired preset number appears or press it repeatedly.
   - You can also recall presets by using the JOG DIAL.

CD PLAYING



Basic Operation

1. **Press the CD FUNCTION button.**
2. **Press the CD OPEN/CLOSE button to open the disc compartment.**
3. **Load disc (s) with the label side up.**
   - ▶ **Playing one or two discs**
     Place discs on trays 1 and 2.
   - ▶ **Playing three discs**
     After placing two discs, press the DISC SKIP button to rotate the trays. Place the next disc on tray 3.

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

4. **Press the CD OPEN/CLOSE button to close the disc compartment.**
5. **Press the PLAY (▶) (or ▶/II on remote control) button to start play.**
   Play begins with the disc on left side tray before closing the disc compartment. All the discs are played once only.

During playback
A tray which has no disc is skipped and play proceeds to the next tray. The indicator of the skipped tray number goes out in the display.

To stop play
Press the STOP (■CLEAR/SET) button.

To pause
Press the CD PAUSE/COUNTER RESET (or ▶/II) button.
To resume play, press it again.

To skip discs
During play or in the stop mode, press the DISC SKIP button.

During play
Play begins automatically after skipping.

In the stop mode
The next disc is skipped to, but the player remains stopped. Press the **PLAY (▶) (or ▶/II)** button to play the next disc. Play begins and all the discs are played once.

To play one disc only
Press one of the DISC DIRECT PLAY(⟳DISC 1,2,3) buttons to start play.

To remove discs
Press the CD OPEN/CLOSE button to open the disc compartment. You can remove two discs. To remove the disc on the back tray, press the DISC SKIP button to rotate the disc tray.

NOTE:
In the case of initial unit, disc compartment is able to open and closed for error recovery.

Changing Discs During Play

Two discs can be changed while the other remaining disc is played.
This operation is not applicable during programmed play.

1. Press the CD OPEN/CLOSE button to open the disc compartment.
2. Remove the discs and place other discs.
   The disc placed on the left side tray will be played next.
3. Press the CD OPEN/CLOSE button to close the disc compartment.

NOTES

- ▶ Do not place more than one compact disc on one disc tray at the same time.
- ▶ If, during CD play, the video image of a nearby television is distorted, or if static is heard from a nearby radio, move this unit further away from the affected television or radio.

Searching for a Particular Point in a Track

Your can locate a particular point in a track during play by monitoring the high-speed cueing sound or observing the CD counter in the display.

To search back:
Keep the |◀◀ ◀◀ button pressed and release it at the desired point.

To search forward:
Keep the ▶▶ ▶▶| button pressed and release it at the desired point.

CD PLAYING

Skipping to the Beginning of a Track

You can locate the beginning of any track on a disc.

To return to the beginning of the current or previous track.
Press the ⏮◀◀ button once or turn counter clockwise the JOG DIAL one step to return to the beginning of the current track.
Press the ⏮◀◀ button repeatedly or turn counter-clockwise the JOG DIAL continuously to skip tracks backward one by one.

To skip tracks
Press the ▶▶⏭ button repeatedly or turn clockwise the JOG DIAL continuously to skip track(s) forward one by one.

Repeat Play

To play one track repeatedly.
Press the REPEAT button to display "REPEAT 1" and press the PLAY/PAUSE ▶/II (▶) button to start play.

To play one disc repeatedly.
Press the REPEAT button twice to display "REPEAT 1 DISC", and press PLAY/PAUSE ▶/II (▶) button to start play.

To play all tracks on all discs repeatedly.
Press the REPEAT button three times to display "REPEAT ALL DISC", and press the PLAY/PAUSE ▶/II (▶) button to start play.

To repeat only selected tracks
Program the desired tracks, and press the REPEAT button to display "REPEAT 1" or "REPEAT ALL DISC".

To cancel repeat play
Press the REPEAT button so that "REPEAT" in the display goes out.

During playback
You can also operate the repeat play during playback.

NOTICE
- ▶ During the programmed play, you can play repeatedly one track(REPEAT 1) or all discs (REPEAT ALL DISC).
- ▶ During the repeat play of an entire disc, if you select the programmed play, it is changed to repeat play of all discs.

Random Play

[Operating with only the remote control]

All the tracks on all discs in the compartment from the selected disc can be played randomly.

To play all tracks on all discs randomly
Press the RANDOM button to display RANDOM.

To cancel random play
Press the RANDOM button so that RANDOM in the display goes out.

To skip tracks in the random play mode
When the ▶▶⏭ button is pressed, the next track is selected at random. The ▶▶⏭ button functions only to return to the beginning of the current track during random play.

Programmed Play

The player has a memory function that allows play of up to 20 tracks over three discs in any order.

1. Press the **PROGRAM/MEMORY** button in the stop mode.
2. Press one of the **DISC SELECTOR** buttons or **DISC SKIP** button to select a disc.
3. Press the ⏮◀◀ or ▶▶⏭ button (or turn the **JOG DIAL**) to select the tracks.
   To select the 6th track, press the ⏮◀◀ or ▶▶⏭ button repeatedly or turn the **JOG DIAL** continuously until track number "6" is displayed in the display.
4. Press the **PROGRAM/MEMORY** button.
5. Repeat steps 2 to 4.
6. Press the **PLAY** ▶ (▶/II) button to start play.

To check the programmed contents
Each time the **PROGRAM/MEMORY** button is pressed in the stop mode, a disc number, a track number, and a program number will be displayed.

To clear the programmed contents
- Press the **PROGRAM/MEMORY** button during stop and then press the **CLEAR** ■ button.
- Turn off the power.
- Press the **CD OPEN/CLOSE** button.

To add tracks to the program
- ● Press the **PROGRAM/MEMORY** button to search for program that the number of track is 00.
- ● Select the desired track on the disc with **DISC SKIP** button and ▶▶⏭ or [⏮◀◀] button (or turn the **JOG DIAL).**
- ● Press the **PROGRAM/MEMORY** button.

To change the programmed tracks
- ● Press the **PROGRAM/MEMORY** button to display the changed program number.
- ● Select the desired track on the disc with **DISC SKIP** button and ▶▶⏭ or [⏮◀◀] button (or turn the **JOG DIAL).**
- ● Press the **PROGRAM/MEMORY** button.

NOTICE
- The DISC SKIP button does not operate during programmed play.
- Random play connot be done during programmed play.

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AUXILIARY FUNCTION

1. Switch on the auxiliary device i.e. TV or VCR, connected to the rear mounted AUX phono sockets.
2. Press the "AUX" function button.

NOTE:
You can also record from the auxiliary input source, see RECORDING section.

TAPE PLAYBACK

Playback

Preparation
► You can use only normal tapes.

1. To set the cassette function:
Switch the unit on and press the TAPE A/B button.(If necessary press the button again to select the other deck.)

2. To insert cassettes:
Open cassette deck A(or B) of both by pushing the deck ▲ OPEN position. Insert one or two cassettes with the tape side to the bottom and the cassette side that you wish to hear facing the front in cassette decks A or B.

3. Auto reverse:
Select which side of the cassette is to be played and how often with the PLAY MODE button.

[1] 1st Option
In case of non-autoreverse(auto stop) deck A and auto reverse deck B.
In this case, the continuous play between deck A and B is not performed.

a) DECK A
Front side play only.

b) DECK B(Auto Reverse)

One side ⇄	:	Unit plays the front or reverse side in deck B and stops automatically at the end of the tape.
All side ⇄)	:	Unit plays the front and reverse side in deck B and stops automatically at the end of the tape.
Endless loop (⇄)	:	Like ⇄) but six times in succession in deck B.

[2] 2nd Option
In case of non-autoreverse(auto stop) deck A and B.(Front side play only)

4. Playback :
Start playback with the PLAY button ► (front side) or ◄ (reverse side). The ◄ (reverse side) PLAY button is not operated in the non-autoreverse deck.

5. Fast forward or rewind :
Press button ▶▶ ▶▶| on the unit or on the remote control for fast forward and |◀◀ ◀◀ to rewind.

6. To end playback :
Press the STOP(■ CLEAR/SET) button.
The unit stops automatically at the end of the tape.

Tape Counter Reset

Press the COUNT RESET button while tape playing or stop.
During forward (►) playing, the tape counter increases and during reverse (◄) playing, the tape counter decreases.

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RECORDING

Recording from a CD, Radio or Connected Equipment

Preparation

- ▶ Wind up the tape to the point recording starts.
- ▶ Use only normal tapes.
- ▶ You can record with deck B only.

1. To select the function :
Switch the unit on and select CD, TUNER, AUX etc.

2. To insert the cassette :
Open the cassette compartment B.
Insert a blank cassette into the cassette compartment.

3. PLAY MODE(OPTIONAL)
Select the play mode with PLAY MODE button, ⇄ if you wish to record one cassette side only and ⇄) or (⇄) for both cassette sides.

4. Recording mode :
Press the REC/PAUSE button.
The ●REC indicator flashes.

5. To start recording :
Press the REC/PAUSE button or PLAY button ▶ if you want to record the front side or ◀ for the reverse side(OPTIONAL). The recording begins.

NOTES :
If both cassette sides are to be recorded (PLAY MODE ⇄), (⇄)) always start with the front side PLAY ▷.(Use only auto reverse deck)

6. To interrupt recording :
To interrupt the recording for a short period, press the REC/PAUSE button again.
To continue with the recording, press the REC/PAUSE button one more time.

NOTE :
When the recording pause, the lamp (below the PLAY ◀ or ▶ button) of the current recording direction flashes.

7. To end the recording :
Press the STOP (■ CLEAR/SET) button.
The unit stops automatically at the end of the tape.

CD Synchro Recording

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

1. Select the CD function.

2. Open the CD compartment with the CD OPEN/CLOSE button, insert discs and close the CD compartment again.

3. To insert cassette :
Open the cassette deck B.
Insert a blank cassette into the cassette compartment.
Rewind the cassette to the beginning of the tape.

4. Auto reverse(OPTIONAL)
Select the PLAY MODE, ⇄ if you only wish to record the front side and ⇄) or (⇄) for both cassette sides.

NOTE :
If the last title has to be stopped because the tape is full when front cassette side recording with PLAY MODE ⇄) and (⇄) the title is recorded again completely on the reverse cassette side.

5. To start recording :
Press the CD SYNC. button.
The recording begins and stops automatically at the end.

NOTE:
In case of Auto Stop deck.(OPTIONAL)
If you want to record in a new tape after one tape continuously, change the new tape prior to press the PLAY button.
The tape enters into the recording mute mode for 7 seconds then CD player starts playing and recording.

NOTES :
1. If you only want to record certain titles, programme these before the CD synchro recording.
2. If you wish to record from the desired track, select the desired track with the |◀◀ ◀◀/ ▶▶ ▶▶| button (or turn the JOG DIAL) before commencing CD synchro recording.
3. The function change is not impossible during recording.

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RECORDING

Recording from Tape to Tape (Dubbing)

Preparation

- ▶ Wind up the tape to the point recording starts.
- ▶ Use only normal tapes.
- ▶ Dubbing only functions from deck A(playback) to deck B (recording)

1. Select the TAPE function.

2. To insert cassettes :
Open cassette deck A.
Insert a recorded cassette and the cassette side that you wish to dub to the front.
Open cassette deck B.
Insert a blank cassette in the cassette compartment and the cassette side that you wish to record to the front.

3. To dub(auto dubbing):
Rewind both cassettes to the beginning of the tape.
Press NORMAL DUBBING for normal and HIGH DUBBING for double speed dubbing.
The dubbing starts up automatically.

NOTES :
The pause function does not operate during dubbing.
The unit can be dubbing to forward direction only.

4. To end dubbing :
Press the STOP (■ CLEAR/SET) button.
The unit stops automatically at the end of the tape.

NOTE :
You cannot change the speed of dubbing while dubbing.
The volume has no effect on the record level.

TIMER

Timer Setting

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

1. **Check the current time.**
2. **Press the ⏲ TIMER button to enter the timer setting mode.** (If the timer is already set, press the button for more than 1.5 seconds.)
   ⏲ indicator appears in the display and each function-TUNER, CD, TAPE, AUX - flashes in the display in turn.
3. **If you want to select the TUNER, press the CLEAR/SET button when the TUNER appears in the display window.** 'PLAY' and 'REC' flashes in turn.

   ● **Press the CLEAR/SET button to confirm one of the PLAY and REC.**
   PLAY: TUNER play only
   REC: TUNER play and recording

   ● **Turn the JOG DIAL to select a desired radio station of the previous programmed preset numbers.**
   If the radio stations are nothing in memory, this step is automatically skipped and you can operate continuously from step ●; in this case, it will be played the radio broadcasting that is received before turn off the unit.
   ● **Press the CLEAR/SET button to confirm the selected preset number.**
   ● **Set the hour to switch on by turning the JOG DIAL.**
   ● **Press the CLEAR/SET button to confirm the hour to switch on.** The minute flashes.
   ● **Set the minute to switch on by turning the JOG DIAL.**
   ● **Press the CLEAR/SET button to confirm the minute to switch on.**
   Now appears OFF and the hour flashes in the display.

TIMER

- **Programme the time to switch off in the same way as the time to turn on.**
- **Set the volume level by turning the JOG DIAL.**
- **Press the CLEAR/SET button to confirm the selected volume level.**

  ⏲ remains in the display and the timer setting has been perfected.
- **Switch the system off.**

  The selected function is automatically switched on and off at the time set.
  - ▶ **If you select the AUX:**

    Follow steps ●~● except steps ●~● of the **'3. If you want to select the TUNER'**. explanation section.
  - ▶ **If you select the CD or TAPE:**

    Follow steps ●~● of the **'3. If you want to select the TUNER'**. explanation section.

4. **To cancel or check the timer.**

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

   To activate or check the timer, press the ⏲ TIMER button so that "⏲" lights up in the display.

   To cancel the TIMER, press the ⏲ TIMER button so that "⏲" in the display goes out.

NOTES:

1. When the CD or TAPE time programmed playback, if no disc is entered in the disc drawer or no cassette tape is entered in the cassette deck, the TUNER function will be operated.
2. When the CD programmed playback, the REPEAT ALL DISC will be selected automatically.
3. When the TAPE time programmed playback, the play mode will be selected to '(⇄)' mode automatically.
4. When the TAPE time programmed playback, if both cassette decks are full of the cassette tapes; the cassette tape in deck B will be selected first.
5. The timer-off function will be operated only in the case of power-on by the timer on.

Sleep Timer Setting

(Operating with only the remote control)

When the sleep timer is used, the power is automatically turned off after the specified time has elapsed.

1. To specify the time until the power is turned off, Press the SLEEP button. In the display you can see [redacted] and '90' for about 5 seconds. This means that the units 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 the SLEEP button briefly. The time remaining until it turns off is displayed for about 5 seconds.

NOTE:

If you press the SLEEP button while the sleep time is displayed, the SLEEP time is set again.

3. To cancel the sleep timer mode

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

AUTO FUNCTION SELECT SYSTEM

This unit has an auto function select system for various functions. i.e. If a function is in operation(e.g. radio reception), and you wish to switch to another(e.g. cassette playback), all you have to do is select the desired function(cassette playback) directly, the unit automatically switches to the new function(cassette recorder).This applies for the following functions:

1. **On the remote control**

   TUNER : PRESET ▲/▼ buttons

   CD : PLAY/PAUSE(▶/❚❚) button

   TAPE : REVERSE(◀) and FORWARD(▶) PLAY buttons.

2. **On the unit**

   CD : DISC DIRECT PLAY buttons (⟳DISC 1, 2, 3)

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SPECIFICATIONS

SECTION \ MODEL	FFH-5600	FFH-8900
AMP		
Outoput Power	50W+50W(6Ω, 2ch, T.H.D 10%)	100W+100W(6Ω, 2ch, T.H.D 10%)
Frequency Response	30~25,000 Hz	30~25,000 Hz
Signal-to-Noise Ratio	81 dB	81 dB
TUNER		
FM		
Tuning Range(optional)	87.5~108 MHz or 65~74 MHz & 87.5~108 MHz	87.5~108 MHz or 65~74 MHz & 87.5~108 MHz
Intermediate Freqency	10.7 MHz	10.7 MHz
Signal-to-Noise Ratio (Mono/Stereo, 98MHz)	63/58 dB	63/58 dB
Frequency Response	60~14,000 Hz	60~14,000 Hz
AM(MW)		
Tuning Range(optional)	522~1,611 kHz, 530~1,720 kHz or 530~1,610 kHz	522~1,611 kHz, 530~1,720 kHz or 530~1,610 kHz
Intermediate Frequency	450 kHz	450 kHz
Frequency Response	100~2,000 Hz	100~2,000 Hz
SW(OPTIONAL)		
Tuning Range	5.8~18.0 MHz	5.8~18.0 MHz
Intermediate Freqency	450 kHz	450 kHz
Signal-to-Noise Ratio(11MHz)	37 dB	37 dB
LW(OPTIONAL)		
Tuning Range	153~281 kHz	153~281 kHz
Intermediate Frequency	450 kHz	450 kHz
Signal-to-Noise Ratio(254kHz)	30 dB	30 dB
CASSETTE DECK		
FF, REW Time(C-60)	130 sec.	130 sec.
Frequency Response	125~8,000 Hz	125~8,000 Hz
Signal-to-Noise Ratio	48 dB(P/B), 43dB(R/P)	48 dB(P/B), 43dB(R/P)
Channel Separation	50 dB(P/B), 43dB(R/P)	50 dB(P/B), 43dB(R/P)
CD		
Frequency Response	40~18,000 Hz	40~18,000 Hz
Signal-to-Noise Ratio	73 dB	73 dB
GENERAL		
Power Requirements	Refer to the back panel of the unit.	Refer to the back panel of the unit.
Not Demensions(WxHxD)	360 x 362 x 374mm	360 x 362 x 374mm
Net Weight	8.5 kg	10.0 kg
SECTION \ MODEL	**FE-5600E**	**FE-8900E**
SPEAKER SYSTEM		
Type	Bass Reflex 2 Way 2 Speaker System	Bass Reflex 3 Way 3 Speaker System
Impedance	6Ω	6Ω
Frequency Response	50~20,000 Hz	45~20,000 Hz
Sound Pressure Level	87 dB/W(1m)	87 dB/W(1m)
Rated Input Power	50W	100W
Max. Input Power	100W	200W
Net Demensions(WxHxD)	260 x 410 x 316mm	260 x 470 x 316mm
Net Weight	4.95kg	6.6kg

※ **NOTE : Designs and specifications are subject to change without notice for improvement.**