

# ***Mini Hi-Fi Component System***

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Operating Instructions



***CHC-P33D***

# Chapter 1: Setting Up

- Connecting the Stereo
- Installing the Speakers
- Inserting the Batteries
- Setting the Clock

## Connecting the Stereo

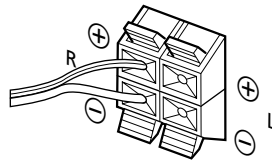
Use the illustrations below to connect your stereo.

If you want to connect any optional components to the stereo, see "Connecting Optional Equipment" in Chapter 6.

### STEP 1 Connecting the Speakers

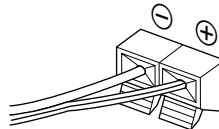
For speakers installation, see "Installing the Speakers".

**Right (R) and Left (L) satellite speakers**  
Connect the right speaker to the R connectors and the left speaker to the L connectors. Connect the grey cords with white stripes to ⊕ and the solid grey cords to ⊖.



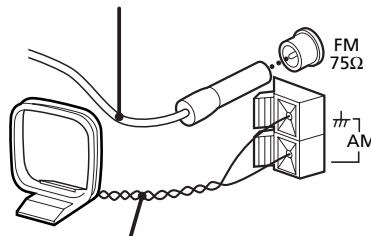
#### Superwoofer

Connect the superwoofer to the WOOFER connectors. Connect the grey cord with red stripes to ⊕ and the solid grey cord to ⊖.



### STEP 2 Connecting the Aerials

FM lead aerial (supplied)\*

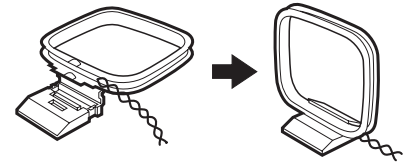


AM loop aerial (supplied)

\* Note: Extend horizontally

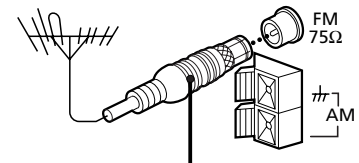
#### AM loop aerial connection

Connect the supplied loop aerial to the AM and the  $\hbar$  terminals.



#### To improve the FM reception

Connect an outdoor FM aerial to the FM 75Ω terminal, using a 75-ohm coaxial cable and IEC standard socket connector.



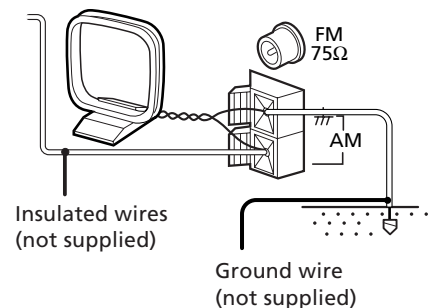
IEC standard socket connector  
(not supplied)

#### To improve the AM reception

After you connect the AM aerial, connect a 6- to 15-meter (20- to 50- feet) insulated wire to the AM terminal. Connect the  $\hbar$  terminal to earth.

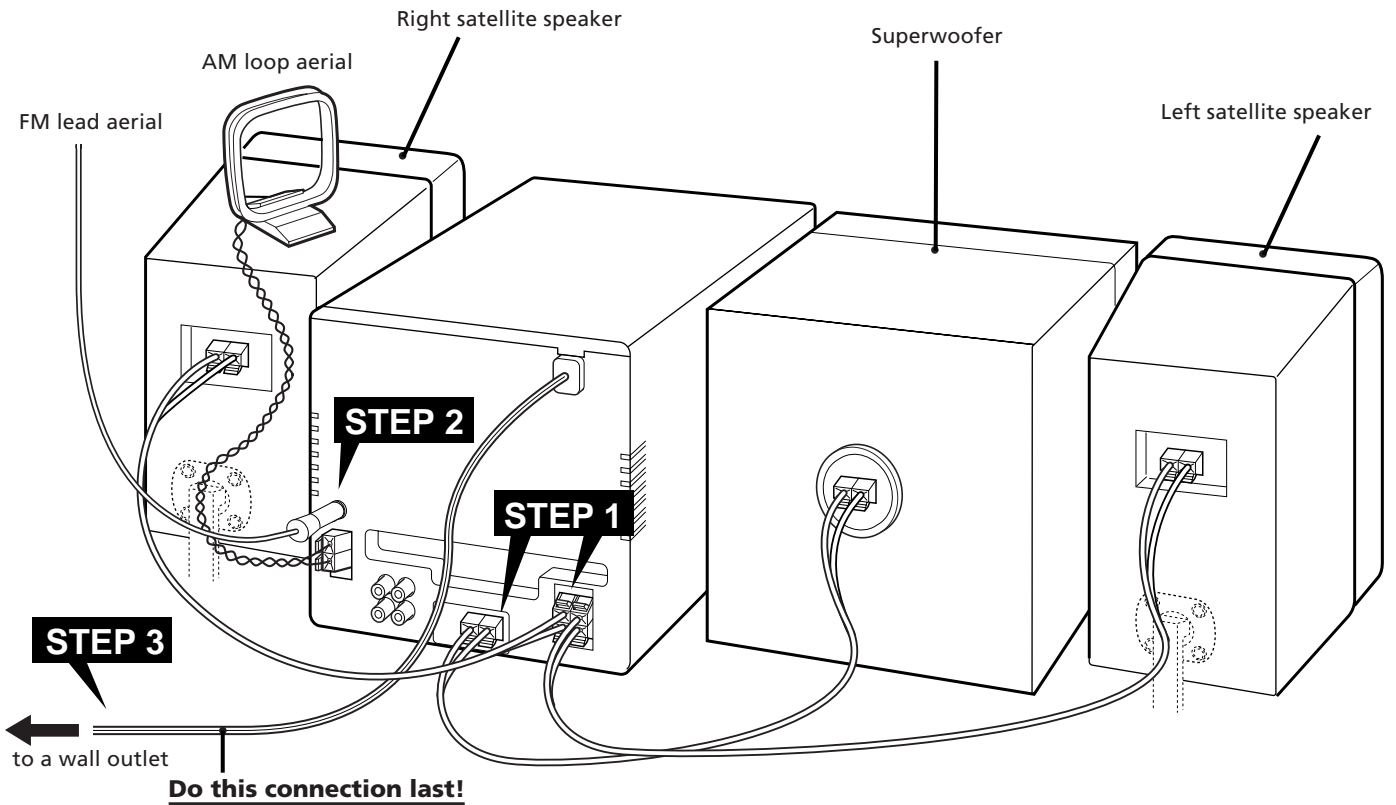
#### Important

Ground the external aerial from  $\hbar$  terminal against lightning. To prevent a gas explosion, do not connect the ground wire to a gas pipe.



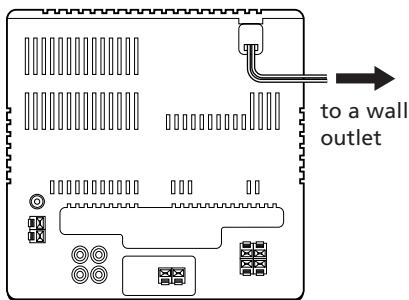
Insulated wires  
(not supplied)

Ground wire  
(not supplied)



### STEP 3 Connecting the Power

Connect the mains lead to a wall outlet after you have made all the above connections.

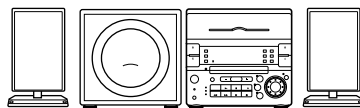


#### Note

Do not install the woofer close to the unit, and do not place the woofer above or below the unit. Otherwise, the vibration from the woofer may cause mechanical noise or "skipping".

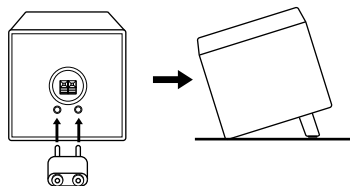
#### When installing the speakers on either side of the main unit

Place the woofer between the two satellite speakers.

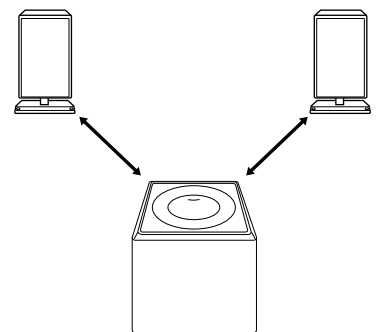


#### When installing the satellite speakers away from the woofer

1 Insert the supplied stand into the rear of the woofer.

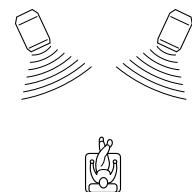


2 Install the woofer between the satellite speakers with its front panel facing upward.



#### When installing the satellite speakers away from each other

Position the satellite speakers so they face toward your listening position.



**continue to next page →**

## Installing the Speakers

Proper speaker positioning is essential in order to achieve directional effects and diffused ambiance.

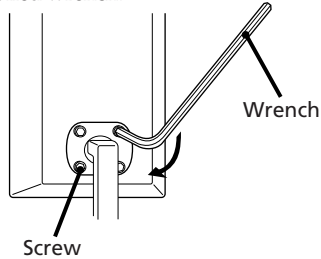
When you install the speakers, refer to the following instructions.

Once you have determined the final placement, fasten the speakers to the speaker stands.

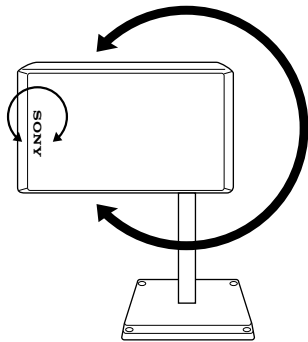
→ continued

## Fastening the speaker stands

- 1 Fasten the four screws loosely using the supplied wrench.



- 2 Rotate the speaker to the desired position. You can also rotate the Sony logo.



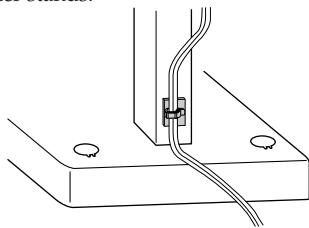
- 3 Tighten the screws.

### Note

Tighten the screws securely to prevent mechanical noise.

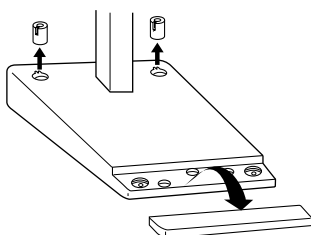
### To attach the cord holder to the speaker stand

Peel off the sheets covering the cord holders and attach the holders to the speaker stands.

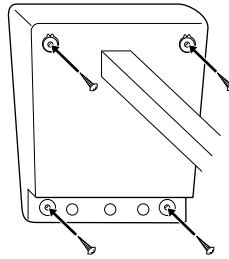


## When attaching the speakers to the wall

- 1 Detach the caps and plates from the speaker stands.



- 2 Use a screw driver to attach the stands to the wall with four wood screws (not supplied).



- 3 Re-attach the caps and plates to the speaker stands.

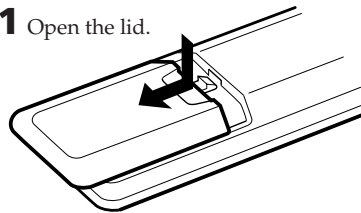
### Note

Before attaching the speakers, check the strength of the wall and the length of the wood screws to prevent the speakers from falling down.

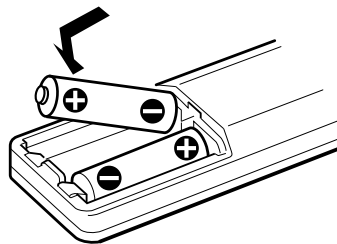
## Inserting the Batteries

Insert two R6 (size AA) batteries in the supplied remote for remote control.

- 1 Open the lid.



- 2 Insert two R6 (size AA) batteries. Match the + and - indications to the diagram in the battery compartment.



- 3 Close the lid.

### Battery life

You can expect the remote to operate for about six months (using Sony SUM-3 (NS) batteries) before the batteries run down. When the batteries no longer operate the remote, replace both batteries with new ones.

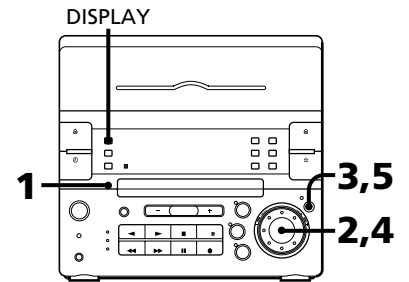
### To avoid battery leakage

If you are not going to use the remote for a long time, remove the batteries to avoid damage caused by corrosion from battery leakage.

## Setting the Clock

The built-in clock shows the time in the

display. You need to set the clock to utilise the timer-activated features of your stereo system.

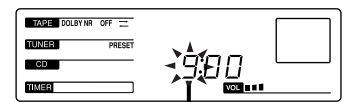


- 1 Press CLOCK SET. The hour indication begins flashing.



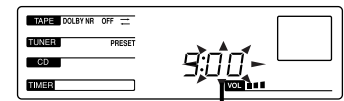
flashing

- 2 Set the current hour by turning the jog dial until the correct hour appears.



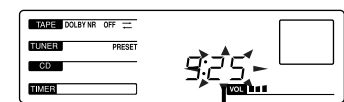
flashing

- 3 Press ENTER/NEXT. The minutes indication begins flashing.



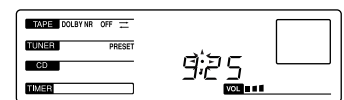
flashing

- 4 Set the current minute by turning the jog dial until the correct minute appears.



flashing

- 5 Press ENTER/NEXT. The clock starts running and the upper dot flashes. Use the time signal to set the clock accurately. The upper dot flashes for the first half of a minute (0 to 29 seconds), and the lower dot flashes for the last half of a minute (30 to 59 seconds).



**To check the time while power is on**  
Press DISPLAY. The current time appears for a few seconds.

**To correct the clock setting**  
Repeat steps 1 to 5.

# For Your Information

## Precautions

## Troubleshooting Guide

## Maintenance

## Specifications

## Index to Parts and Controls

## Index

## Precautions

If you have any questions or problems concerning your stereo system, please consult your nearest Sony dealer.

### On safety

- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- Unplug the system from the wall outlet (mains) if it is not to be used for an extended period of time. To disconnect the cord (mains lead), pull it out by the plug. Never pull the cord itself.
- Should any solid object or liquid fall into the component, unplug the stereo system and have the component checked by qualified personnel before operating it any further.
- The mains lead must be changed only at the qualified service shop.

### On installation

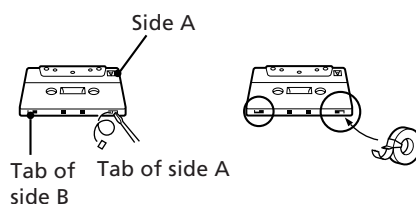
Place the stereo system in a location with adequate ventilation to prevent heat build-up in the stereo system.

### On condensation in the CD player component

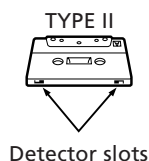
If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the CD player. Should this occur, the CD player will not operate. Remove the CD and leave the system turned on for about an hour until the moisture evaporates.

### To save a tape permanently

To prevent a tape from being accidentally recorded over, break off the cassette tab from side A or B as illustrated. If you later want to reuse the tape for recording, cover the broken tab with adhesive tape.



When you are using a type II (CrO<sub>2</sub>) tape, be careful not to cover the detector slots which allow the tape player to automatically detect the type of tape.



## Troubleshooting Guide

If you run into any problem using the stereo, use the following check list and first check the following points:

- The mains lead is connected firmly.
- The speakers are connected correctly and firmly.

Should any problem persist after you have made the checks below, consult your nearest Sony dealer.

## Tuner

### "STEREO" flashes in the display.

- Adjust the aerial.

### Severe hum or noise.

- Adjust the aerial.
- The signal strength is too weak. Connect the external aerial.
- Connect the ground wire.

### A stereo FM programme cannot be received in stereo.

- Press STEREO/MONO so that "STEREO" appears.

## Tape Player

### The tape does not record.

- No tape in the tape compartment.
- The tab has been removed from the cassette.
- The tape has reeled to the end.

### The tape does not record nor playback or there is a decrease in sound level.

- The heads are dirty. Clean them.
- Magnetic deposits have built-up on the record/playback head\*.

### There is excessive wow or flutter, or the sound drops out.

- The capstans or pinch rollers are contaminated\*.

### The tape does not erase completely.

- Magnetic deposits have built-up on the record/playback heads\*.

### Noise increases or the high frequencies are erased.

- Magnetic deposits have built-up on the record/playback heads\*.

\* See "Maintenance."

## CD Player

### The disc tray does not close.

- The CD is not placed correctly.

### The CD will not play.

- The CD is dirty.
- The CD is inserted label side down.
- The player is in pause mode.
- Moisture condensation has built up. Leave the system turned on for about an hour until the moisture evaporates.

### Play does not start from the first track.

- The CD player is in programme or shuffle mode. Press PLAY MODE repeatedly so that "PROGRAM" or "SHUFFLE" disappears.

### "⏮ ⏪" is displayed.

- ⏪ on the unit was repeatedly pressed at the end of the CD. Turn the jog dial counterclockwise (or press ⏮ on the remote) to return to the normal display.

## General

### There is no sound.

- Press VOLUME +.
- The headphones are connected. Disconnect them.

### Sound comes from one channel or unbalanced left and right volume.

- Check the speaker connections of the inoperative channel.

### The left and right sound are reversed.

- Check the speaker connection and speaker placement.

### Bass is lacking or the location of the musical instruments is apparently imprecise.

- Check the speaker connection for proper phasing.

### There is severe hum or noise.

- TV or VCR is too close to the stereo system. Move the stereo system away from the TV or VCR.

### "0000" flashes in the display.

- A power interruption occurred. Set the clock and timer settings again.

### The remote does not function.

- The batteries have run down. Replace both batteries.
- There is an obstacle between the remote and the system. Remove the obstacle.

## Restoring the Factory Settings

Unplug the mains lead and then plug it back into the wall outlet.

Keep DISPLAY and FUNCTION pressed and press TAPE.

## Maintenance

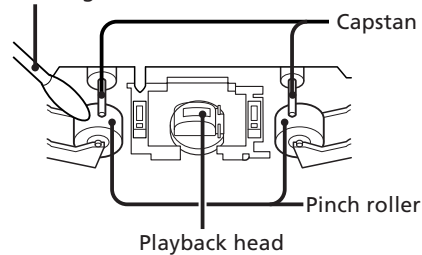
### To clean the tape heads and tape path

Contaminated tape heads cause poor recording or sound drop-out in playback. We recommend cleaning after every 10 hours of operation.

Open the tape compartment and wipe the heads, the pinch rollers and the capstans with a cleaning swab slightly moistened with cleaning fluid or alcohol. Wipe the parts shown below.

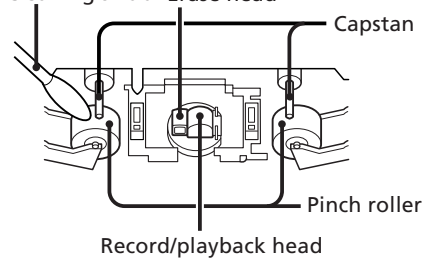
#### Deck A

Cleaning swab



#### Deck B

Cleaning swab Erase head



Insert a tape when the areas cleaned are completely dry.

### To demagnetize the tape heads

After 20 to 30 hours of use, enough residual magnetism will have built up on the heads to begin to cause loss of high frequencies and hiss. At this time, demagnetize the heads and all metal parts in the tape path with a commercially available tape head demagnetizer. Refer to the instructions of the demagnetizer.

### To clean the cabinet

Use a soft cloth slightly moistened with mild detergent solution.

### To clean the CD

When a CD is dirty, clean it with a cleaning cloth. Wipe the CD from the centre out.

### Notes on CD

- Do not use solvents such as benzene, thinner, commercially available cleaners, or anti-static spray intended for vinyl LPs.
- If there is a scratch, dirt or fingerprints on the CD, it may cause a tracking error.

## Specifications

### CD player section

System	Compact disc digital audio system
Laser	Semiconductor laser ( $\lambda = 780 \text{ nm}$ ) Emission duration: continuous
Laser output	Max 44.6 $\mu\text{W}^*$ * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.
Wavelength	780 – 790 nm
Frequency response	2 Hz – 20 kHz
Signal-to-noise ratio	More than 65 dB
Dynamic range	More than 97 dB

### Tuner section

FM stereo, FM/AM superheterodyne tuner

#### FM tuner section

Tuning range	87.5 – 108.0 MHz (50 kHz step)
Aerial	FM lead aerial
Aerial terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

#### AM tuner section

Tuning range	For Italian model: AM: 522 – 1,611 kHz For German model: AM: 531 – 1,602 kHz For other models: MW: 531 – 1,602 kHz LW: 153 – 279 kHz
Aerial	AM loop aerial External aerial terminals
Intermediate frequency	450 kHz

## Tape player section

Recording system

4-track 2-channel stereo

Frequency response

(DOLBY NR OFF)

40 – 13,000 Hz ( $\pm 3$  dB),  
using Sony TYPE I cassette  
40 – 14,000 Hz ( $\pm 3$  dB),  
using Sony TYPE II cassette

Wow and flutter

0.1% WRMS  $\pm 0.3\%$  (DIN)

## Amplifier section

DIN power output:

Satellite: 7 W + 7 W (4 ohms at  
1 kHz, DIN)

Superwoofer: 30 W (6 ohms at 60 Hz,  
DIN)

Continuous RMS power output

Satellite: 10 W + 10 W (4 ohms at  
1 kHz, 10% THD)

Superwoofer: 35 W (6 ohms at  
60 Hz, 10% THD)

Music power output

Satellite: 15 W + 15 W (4 ohms at  
1 kHz, 10% THD)

Superwoofer: 45 W (6 ohms at  
60 Hz, 10% THD)

Inputs

MD IN: Sensitivity 450 mV,  
impedance 47 kilohms

Outputs

MD OUT: Sensitivity 250 mV, 1 k $\Omega$

PHONES (stereo phone jack):  
accept headphones of  
8 ohms or more.

## Speaker section

### Satellite speaker SS-S33D

Speaker system

Full range

Speaker units 6 cm dia., cone type

Enclosure type Closed type (with supplied  
speaker stand)

Rated impedance

4 ohms

Frequency response

180 Hz – 20 kHz

Dimensions Approx. 110  $\times$  185  $\times$   
100 mm

( $4\frac{5}{16} \times 7\frac{5}{16} \times 3\frac{15}{16}$  in.)  
(w/h/d) (per speaker, incl.  
front grille)

Approx. 120  $\times$  130 mm  
(w/d) (pedestal)

Mass

Approx. 1.8 kg (3 lb 15 oz)  
per speaker with speaker  
stand

### Superwoofer SS-W33D

Speaker system

Full range

Speaker units 13 cm dia., cone type

Enclosure type Bass reflex type

Rated impedance

6 ohms

Frequency response

40 – 180 Hz

Dimensions Approx. 225  $\times$  210  $\times$   
295 mm

( $8\frac{7}{8} \times 8\frac{1}{4} \times 11\frac{5}{8}$  in.)  
(w/h/d) incl. front grille

Mass Approx. 4.8 kg (10 lb 9 oz)

## Supplied accessories

AM loop aerial (1)

Remote (1)

Sony SUM-3 (NS) batteries (2)

FM lead aerial (1)

Speaker cords (3)

Supporter (1)

Cord holders (2)

Wrench (1)

## General

Power requirement

220 – 230 V AC, 50/60 Hz

Power consumption

85 W

Dimensions Approx. 225  $\times$  210  $\times$   
235 mm

( $8\frac{7}{8} \times 8\frac{3}{8} \times 9\frac{3}{8}$  in.) (w/  
h/d) incl. projecting parts  
and controls

Mass

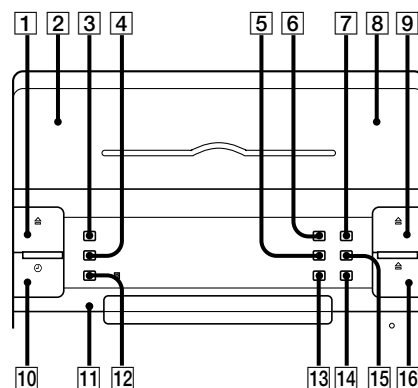
Approx. 4.8 kg (10 lb 9 oz)

Design and specifications are subject to  
change without notice.

# Index to Parts and Controls

Refer to the pages indicated in parentheses  
for how to use the controls.

## Front Panel



1  $\triangle$  EJECT DECK A button (12)

2 DECK A (12)

3 DISPLAY button (6, 7)

4 SLEEP button (18)

5 CD CYNCHRO button (13)

6 DOLBY NR button (12)

7 DIRECTION MODE button (12)

8 DECK B (13)

9  $\triangle$  EJECT DECK B button (13)

10 TIMER SELECT button (19)

11 CLOCK SET button (6)

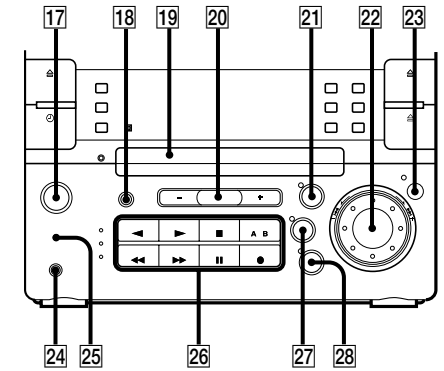
12 TIMER SET button (18)

13 PLAY MODE button (8, 14)

14 REPEAT button (9)

15 HI-SPEED DUBBING button (15)

16  $\triangle$  OPEN/CLOSE CD button (7)



17 SYSTEM POWER ON/STANDBY  
button (19)

18 FUNCTION button (13)

19 Disc tray (7)

20 VOLUME +/- button (17)

21 TAPE button and lamp (12)

22 Jog dial (6, 7, 10, 14, 18)

23 ENTER/NEXT button (6, 8, 11, 14, 19)

24 PHONES jack (stereo phone jack) (17,  
20)

25 WOOFER LEVEL button (17)

26 Operating buttons\* (7, 10, 12, 19)

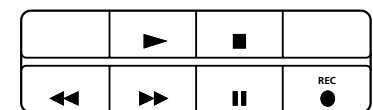
27 TUNER/BAND button and lamp (10)

28 CD button and lamp (7)

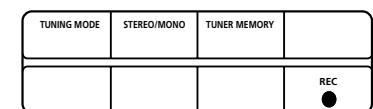
\* Operating buttons

The buttons you can operate for CD player,  
tuner, or tape player light up.

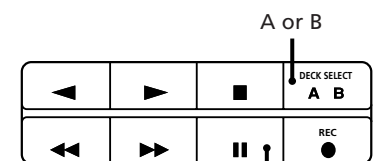
## CD player



## Tuner



## Tape player



When you select  
deck B, **II** lights up.

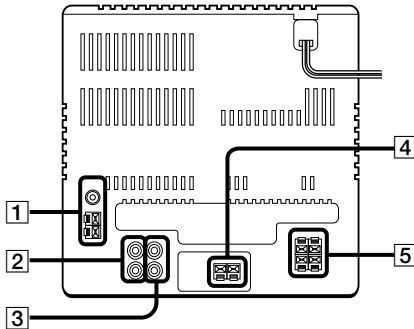
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**Note**

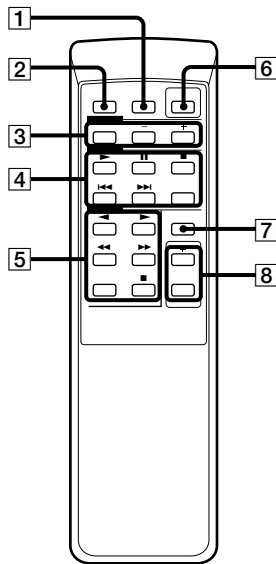
A or B lights up when you operate CD player or tuner. However, you can ignore it.

**Rear Panel**



- 1 Aerial terminals (4)
- 2 MD OUT jacks (20)
- 3 MD IN jacks (20)
- 4 Woofer connectors (4)
- 5 Speaker connectors (4)

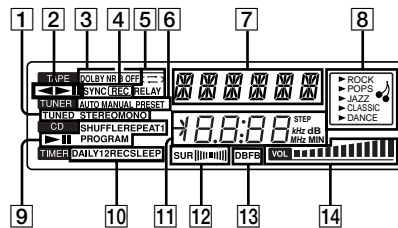
**Remote**



- 1 SLEEP button
- 2 DBFB button (17)
- 3 Tuner operating buttons  
BAND button  
PRESET +/- button
- 4 CD operating buttons  
▶ (play) button  
|| (pause) button  
■ (stop) button  
◀▶ (7, 14) button  
EDIT button (13)

- 5 Tape operating buttons  
◀▶ (reverse side/front side) play buttons  
■ (stop) button  
◀▶ (7, 14) buttons  
DECK SELECT button
- 6 SYSTEM POWER switch
- 7 SELECT 1 - 5 button (17)
- 8 VOLUME +/- buttons

**Display Window**



- 1 Tuner indications (10)
- 2 Tape play indications (12)
- 3 DOLBY NR indication (12)
- 4 CD SYNCHRO indication (13)
- 5 Tape direction indications (12)
- 6 AUTO/MANUAL/PRESET indications (10)
- 7 Function indications (6, 8, 10, 14, 19)
- 8 Audio emphasis indications (17)
- 9 CD play mode indications (7)
- 10 Timer indications (19)
- 11 Frequency/time indication (6, 10)
- 12 SUR indication (17)
- 13 DBFB indication (17)
- 14 VOLUME indication (17)

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