

Micro Hi-Fi Component System

Operating Instructions _____ **GB**

使用说明书 _____ **CS**



CMT-EP50

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

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

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.



To prevent fire, do not cover the ventilation of the apparatus with newspapers, table-cloths, curtains, etc. And don't place lighted candles on the apparatus.

To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.



Don't throw a battery, dispose it as the injurious wastes.

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* For European model only

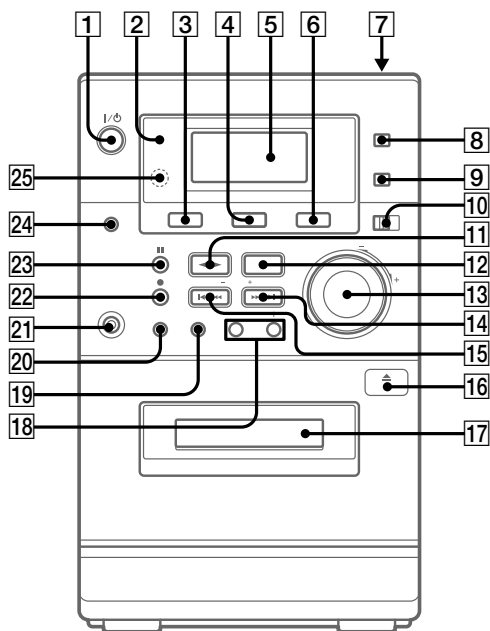
GB

Parts Identification

The items are arranged in alphabetical order.

Refer to the pages indicated in parentheses () for details.

Main unit



Cassette compartment **17** (13)
CD **4** (8, 9, 14)
DISPLAY **24** (9, 11)
Display Window **5** (8, 9, 10)
ENTER **19** (7, 9, 10, 12)
ISS **10** (14)
MEGA BASS **8** (16)
MONO STEREO **10** (11)
MUSIC MENU **9** (16)
PHONES jack **21**
PLAY MODE **20** (8, 9)
PRESET +/- **18** (10, 11, 12)

RDS (European model only)/DIR **20** (12, 13, 14, 15)
Remote sensor **25**
TAPE **3** (13)
TIMER indicator **2** (15, 18)
TUNER **6** (10, 11, 14)
TUNER MEM **19** (10)
TUNING + **14** (10, 11, 12, 15)
TUNING - **15** (10, 11, 12, 15)
VOLUME control **13**

BUTTON DESCRIPTIONS

I/O (power) **1** (7, 11, 15, 18)

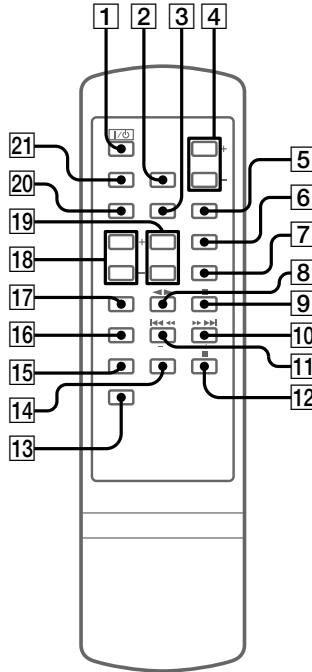
CD

◀◀◀◀ (go back) **15** (8, 9)
▶▶▶▶ (go forward) **14** (8, 9)
▶▶▶▶ (play) **11** (8, 9)
|| (pause) **23** (8)
▲ PUSH OPEN/CLOSE **7** (8)
■ (stop) **12** (8, 9)

TAPE

▶▶▶▶ (fast forward) **14** (13)
|| (pause) **23** (13)
▶▶▶▶ (play) **11** (13, 14, 15)
● (recording) **22** (14, 15)
◀◀◀◀ (rewind) **15** (13)
▲ PUSH OPEN/CLOSE **16** (13)
■ (stop) **12** (13, 14)

Remote Control



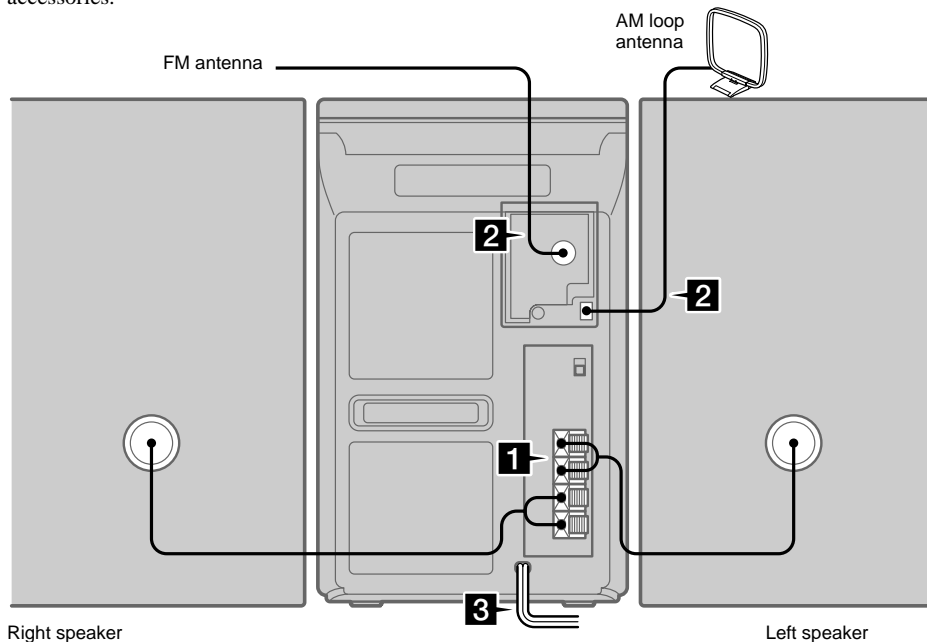
- CD **3** (8, 9, 14)
- CLOCK/TIMER **15** (7, 15, 17)
- DISPLAY **16** (9, 11)
- MEGA BASS **2** (16)
- MUSIC MENU **21** (16)
- PLAY MODE/RDS (European model only)/DIR **17** (8, 9, 12, 13, 14, 15)
- PRESET +/- **18** (10, 11)
- REPEAT **7** (8)
- SLEEP **13** (17)
- TAPE **20** (13)
- TIMER ON/OFF **14** (15, 18)
- TUNER/BAND **5** (10, 11, 14)
- TUNER MEM/ENTER **6** (7, 9, 10, 12, 15, 17, 18)
- TUNING/CLOCK/TIMER +/- **19** (7, 10, 11, 12, 15, 17, 18)
- VOLUME +/- **4**

BUTTON DESCRIPTIONS

- ▶▶** (fast forward) **▶▶▶** (go forward) **10** (8, 9, 13)
- ◀◀** (go back) **◀◀◀** (rewind) **11** (8, 9, 13)
- ⏸** (pause) **12** (8, 13)
- ▶▶◀◀** (play) **8** (8, 9, 13, 14, 15)
- ⏻/⏻** (power) **1** (7, 11, 15, 18)
- (stop) **9** (8, 9, 13, 14)

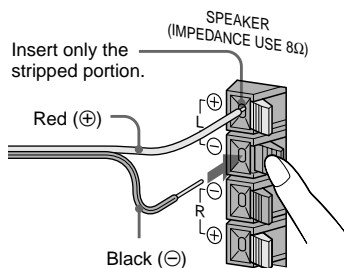
Hooking up the system

Do the following procedure **1** to **3** to hook up your system using the supplied cords and accessories.



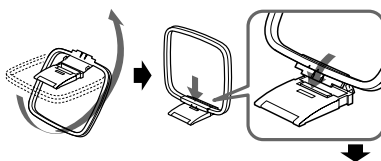
1 Connect the speakers.

Connect the speaker cords to the SPEAKER terminals as shown below.



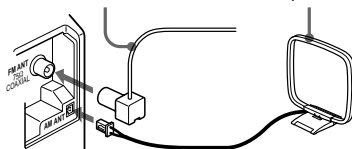
2 Connect the FM/AM antennas.

Set up the AM loop antenna, then connect it.



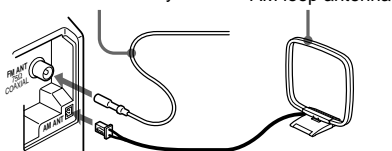
Jack type (A)

Extend the FM lead antenna horizontally. AM loop antenna



Jack type ②

Extend the FM lead antenna horizontally.

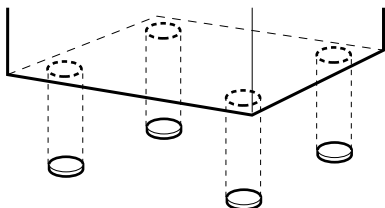
**3 Connect the power cord to a wall outlet.**

If the supplied adaptor on the plug does not fit your wall outlet, detach it from the plug (only for models equipped with the adaptor).

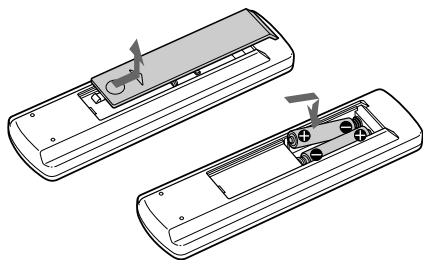
To turn on the system, press **I** / **⏻** (power).

To attach the speaker pads

Attach the supplied speaker pads to the bottom of the speakers to stabilize the speakers and prevent them from slipping.



Inserting two size AAA (R03) batteries into the remote

**Tip**

When the remote no longer operates the system, replace both batteries with new ones.

Note

If you do not use the remote for a long period of time, remove the batteries to avoid possible damage from battery leakage.

Setting the time

- 1** Turn on the system.
- 2** Press **CLOCK/TIMER** on the remote.
When you set the clock for the first time, go to step 5.
- 3** Press **CLOCK/TIMER** on the remote repeatedly until “**SET CLK**” appears in the display.
- 4** Press **TUNER MEM/ENTER** on the remote.
- 5** Press **TUNING/CLOCK/TIMER + or -** on the remote repeatedly to set the hour.
- 6** Press **TUNER MEM/ENTER** on the remote.
- 7** Press **TUNING/CLOCK/TIMER + or -** on the remote repeatedly to set the minute.
- 8** Press **TUNER MEM/ENTER** on the remote.

To reset the system clock

Start over from step 1.

Note

The clock settings are canceled when you disconnect the power cord or if a power failure occurs.

Loading the CD

- 1 Press **▲ PUSH OPEN/CLOSE** down to open the lid of the CD compartment.
- 2 Place a CD with the label side up on the compartment.

When you play a CD single (8 cm CD), place it on the inner circle of the compartment.

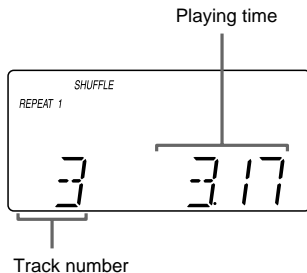


- 3 Press **▲ PUSH OPEN/CLOSE** down to close the lid of the CD compartment.

Playing the CD

— Normal Play/Shuffle Play/Repeat Play

This system lets you play the CD in different play modes.



- 1 Press **CD**.
- 2 Press **PLAY MODE (PLAY MODE/RDS/DIR on the remote)** repeatedly until the mode you want appears in the display.

Select	To play
No display	The CD in original order.
SHUFFLE	The tracks on the CD in random order.
PROGRAM	The tracks on the CD in the order you want them to be played. (See "Programing the CD tracks" on page 9.)

- 3 Press **◀▶**.

Other Operations

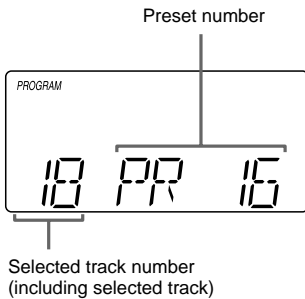
To	Do this
Stop playback	Press ■ .
Pause	Press ⏸ . Press again to resume play.
Select a track	Press ▶▶▶▶ (to go forward) or ◀◀◀◀ (to go back).
Find a point in a track	During play, press and hold ▶▶▶▶ (to go forward) or ◀◀◀◀ (to go back). Release it when you find the desired point.
Play repeatedly (Repeat Play)	Press REPEAT on the remote during play until "REPEAT" or "REPEAT 1" appears. REPEAT: For all the tracks on the CD up to five times. REPEAT 1: For single track only. To cancel playing repeatedly, press REPEAT on the remote until "REPEAT" or "REPEAT 1" disappears.
Remove the CD	Press ▲ PUSH OPEN/CLOSE .

Programming the CD tracks

— Program Play

You can make a program of up to 32 tracks in the order you want them to be played.

- 1 Press **CD**, then place a CD.
- 2 Press **PLAY MODE (PLAY MODE/RDS/DIR on the remote)** repeatedly until **“PROGRAM”** appears in the display.
- 3 Press **◀◀** or **▶▶** until the desired track appears in the display.



- 4 Press **ENTER (TUNER MEM/ENTER on the remote)**.

The track is programmed. The program step number appears.

- 5 To program additional tracks, repeat steps 3 to 4.

- 6 Press **◀▶**.

Program Play starts.

To	Do this
Cancel Program Play	Press PLAY MODE (PLAY MODE/RDS/DIR on the remote) until “PROGRAM” disappears from the display.
Add a track to the end of the program	Do step 3 and 4 with Program Play stopped.
Erase the entire program	Press ■ once, when Program Play is in stop mode, or twice during Program Play.

Tip

The program you made remains in the system's memory even after it has been played back. Press **CD**, then press **◀▶** to play the same program again.

Using the CD display

Press **DISPLAY** repeatedly.

The display changes as follows:

During normal play

Elapsed playing time on the current track →
Remaining time on the current track →
Remaining time on the current CD → Clock display (for five seconds) → Elapsed playing time on the current track → ...

In the stop mode

Total number of tracks and total playing time → Clock display (for five seconds) → Total number of tracks and total playing time → ...

Presetting radio stations

You can preset up to 30 stations.

1 Press TUNER (TUNER/BAND on the remote) repeatedly to select FM or AM.

2 Press and hold TUNING (TUNING/CLOCK/TIMER on the remote) + or – until the frequency indication starts to change, then release it.

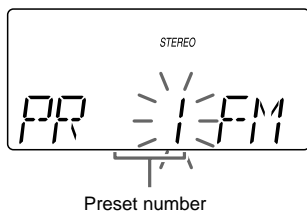
Scanning stops automatically when the system tunes in a station. “STEREO” (for a stereo program) appears.

If it doesn't stop automatically, press TUNING (TUNING/CLOCK/TIMER on the remote) + or – repeatedly to tune in a station manually.



3 Press TUNER MEM (TUNER MEM/ENTER on the remote).

A preset number appears in the display. The stations are stored from preset number 1.



4 Press ENTER (TUNER MEM/ENTER on the remote).

The station is stored.

5 Repeat steps 1 to 4 to store other stations.

To tune in a station with a weak signal

Press TUNING (TUNING/CLOCK/TIMER on the remote) + or – repeatedly in step 2 to tune in the station manually.

To set another station to an existing preset number

Start over from step 1. After step 3, press PRESET + or – repeatedly to select the preset number where you want to store the other station and the press ENTER (TUNER MEM/ENTER on the remote).

You can preset a new station in the selected preset number.

To erase all preset stations

1 Press and hold TUNER MEM (TUNER MEM/ENTER on the remote) until “ERASE” and “PRESET” appear alternately.

2 Press ENTER (TUNER MEM/ENTER on the remote).

All preset stations are cleared.

To change the AM tuning interval (except for the European model)

Disconnect the power cord from the wall outlet first, and then set the AM FREQ STEP switch at the rear to 9 kHz or 10 kHz.

Tip

The preset stations are retained for half a day even if you unplug the power cord or if a power failure occurs.

Listening to the radio

— Preset Tuning

Preset radio stations in the tuner's memory first.

1 Press **TUNER (TUNER/BAND on the remote)** repeatedly to select **FM or AM**.

2 Press **PRESET + or –** repeatedly to tune in the desired preset station.

The preset number appears in the display for a few seconds.

When only one station is preset, only that station is tuned.

To	Do this
Turn off the radio	Press I/⏻ .

To listen to non-preset radio stations

Use manual or automatic tuning in step 2.

For manual tuning, press **TUNING (TUNING/CLOCK/TIMER on the remote) + or –** repeatedly.

For automatic tuning, press and hold **TUNING (TUNING/CLOCK/TIMER on the remote) + or –**.

Tips

- When an FM program is noisy, set **MONO STEREO** to **MONO** so that "MONO" appears in the display. There will be no stereo effect, but the reception will improve.
- To improve broadcast reception, adjust the antennas.
- You can change the display into the clock display (for five seconds) by pressing **DISPLAY**.

Using the Radio Data System (RDS)

(European model only)

What is the Radio Data System?

Radio Data System (RDS) is a broadcasting service that allows radio stations to send additional information along with the regular program signal. This tuner offers convenient RDS features like station name display and location of stations by program type. RDS is available only on FM stations.*

Note

RDS may not work properly if the station you are tuned in is not transmitting the RDS signal properly or if the signal strength is weak.

* Not all FM stations provide RDS service, nor do they provide the same types of services. If you are not familiar with the RDS system, check with your local radio stations for details on RDS services in your area.

Receiving RDS broadcasts

Simply select a station from the FM band. When you tune in a station that provides RDS services, "RDS" appears in the display.

To check the RDS information

Each time you press **DISPLAY**, the display changes as follows:

Frequency → RDS name* → RDS TEXT* → RDS type* → Clock display (for five seconds) → Frequency → ...

* If the RDS broadcast is not received, the RDS name, RDS TEXT and RDS type may not appear in the display.

continued

Using the Radio Data System (RDS) (continued)

Locating a station by program type (PTY)

You can locate a station you want by selecting a program type. The system tunes in the type of programs currently being broadcast from the RDS stations stored in the tuner's preset memory.

The types of programs include NEWS, AFFAIRS (current news), INFO, SPORT, EDUCATE (education programs), DRAMA, CULTURE, SCIENCE, VARIED (interviews, games and comedy), POP M, ROCK M, EASY M, LIGHT M, CLASSICS, OTHER M, WEATHER, FINANCE, CHILDREN, SOCIAL, RELIGION, PHONE IN, TRAVEL, LEISURE, JAZZ, COUNTRY, NATION M, OLDIES, FOLK M, DOCUMENT, TEST ALARM and NONE (any programs not defined above).

1 Press RDS/DIR (PLAY MODE/RDS/DIR on the remote) while listening to the radio.

2 Press PRESET + or – repeatedly to select the program type you want.

3 Press and hold TUNING (TUNING/CLOCK/TIMER on the remote) + or –.

When the tuner receives a program, “PTY” flashes.

Tip

“TYPE NOT FOUND” appears when the program type you select is not currently being broadcast.

To cancel PTY

Press RDS/DIR (PLAY MODE/RDS/DIR on the remote) again.

Listening to a traffic information

When the tuner receives traffic information signal, “TRAFFIC INFORMATION” will be scrolled in the display.

1 Press RDS/DIR (PLAY MODE/RDS/DIR on the remote) repeatedly until “INFO OFF” or “INFO ON” appears while listening to an FM program.

2 Press ENTER (TUNER MEM/ENTER on the remote) to set “INFO ON”.

Setting the time to the broadcast

You can set the time to the clock information received.

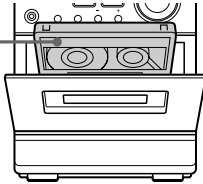
1 Press RDS/DIR (PLAY MODE/RDS/DIR on the remote) repeatedly until “SYNC OFF” or “SYNC ON” appears while listening to an FM program.

2 Press ENTER (TUNER MEM/ENTER on the remote) to set “SYNC ON”.

Loading a tape

- 1 Press TAPE.
- 2 Press \blacktriangle PUSH OPEN/CLOSE.
- 3 Insert a tape in deck with the side you want to play/record facing forward.

Insert with the side you want to play/record facing forward.



Playing a tape

You can use TYPE I (normal), TYPE II (CrO₂) or TYPE IV (metal) tape.

- 1 Load a recorded tape.
- 2 Press TAPE.
- 3 Press RDS/DIR (PLAY MODE/RDS/DIR on the remote) repeatedly to select \rightleftarrows to play one side, \rightleftarrows to play both sides, or \rightleftarrows * to play both sides repeatedly.
* The tape automatically stops after playing back five times.

- 4 Press \blacktriangleleft .

Press \blacktriangleleft again to play the reverse side.

Finding the beginning of a track (AMS*)

During playback, press $\blacktriangleleft\blacktriangleleft$ \blacktriangleleft or \blacktriangleright $\blacktriangleright\blacktriangleright$.

The tape is wound or rewound to the beginning of the next or current track, and play will start automatically. The search direction, “+” (forward) or “-” (back), and “1” appear in the display.

* AMS (Automatic Music Sensor)

Tip

You can change the display into the clock display (for five seconds) by pressing DISPLAY.

Note

The AMS function may not operate correctly under the following circumstances:

- When the unrecorded space between tracks is less than 4 seconds long.
- If completely different information is recorded on the left and right channels.
- When there are continuous sections of extremely low level or low frequency sound (like those of a baritone sax).
- When the system is placed near a television. (In this case, we recommend moving the system farther away from the television or turning off the television.)

To	Press
Stop play	\blacksquare
Pause	\parallel Press again to resume play.
Fast-forward or rewind	With the tape stopped, press $\blacktriangleleft\blacktriangleleft$ \blacktriangleleft \blacktriangleright $\blacktriangleright\blacktriangleright$
Remove the cassette	\blacktriangle PUSH OPEN/CLOSE

Recording to a tape

— CD Synchro Recording/Recording Manually

You can record from a CD or radio. You can use TYPE I (normal) tape.

Steps	Recording from a CD (CD Synchro Recording)	Recording from the radio
1	Load a blank tape.	
2	Press CD.	Press TUNER (TUNER/BAND on the remote).
3	Load the CD you want to record.	Tune in the station you want to record.
4	Press ●. The deck stands by for recording.	
5	Press ◀▶, if you want to switch the direction.	
6	Press RDS/DIR (PLAY MODE/RDS/DIR on the remote) repeatedly to select ↔ to record on one side, ⇄ to record on both sides.	
7	Press ● again. Recording starts.	

To stop recording

Press ■.

Tips

- For recording from a CD to a tape manually, you can press ◀◀ ◀◀ or ▶▶ ▶▶ to select tracks during recording pause mode (after step 4 and before step 6).
- When you record on both sides, be sure to start from the front side. If you start from the reverse side, recording stops at the end of the reverse side.
- When an AM program is noisy, set ISS to select the position that most decreases the noise.

Timer-recording radio programs

You can record a preset radio station from a specified time.

To timer-record, you must preset the radio station (see “Presetting radio stations” on page 10) and set the clock (see “Setting the time” on page 7) beforehand.

1 Tune in the preset radio station that you want to record from (see “Listening to the radio” on page 11).

2 Press **CLOCK/TIMER** on the remote repeatedly until “**SET TMR**” appears, then press **TUNER MEM/ENTER** on the remote.

“ON” appears, and the hour indication flashes.

3 Set the starting time.

Press **TUNING/CLOCK/TIMER + or –** on the remote repeatedly to set the hour, then press **TUNER MEM/ENTER** on the remote.

The minute indication begins flashing next.

Press **TUNING/CLOCK/TIMER + or –** on the remote repeatedly to set the minute, then press **TUNER MEM/ENTER** on the remote.

The hour indication flashes again.

4 Set the time to stop the recording following the procedure in step 3.

5 Press **TUNING/CLOCK/TIMER + or –** on the remote repeatedly until “**RECORD**” appears, then press **TUNER MEM/ENTER** on the remote.

The **TIMER** indicator lights up.

6 Press **TUNING/CLOCK/TIMER + or –** on the remote repeatedly to adjust the volume* for listening to the radio when it is activated by the timer, then press **TUNER MEM/ENTER** on the remote.

* This does not affect the recording volume; it only adjusts the volume for when the radio turns on at the preset time.

7 Insert a recordable tape with the side you want to record on facing towards you.

8 Press **●**.

9 Press **◀▶**, if you want to switch the direction.

10 Press **RDS/DIR (PLAY MODE/RDS/DIR on the remote)** repeatedly to select **↔** to record on one side, **↔↔** to record on both sides.

11 Press **I/⏻** to turn off the system.

To	Do this
Check or change the setting	Turn on the system and then start over from step 1 when the TIMER indicator appears.
Activate the timer operation	Press TIMER ON/OFF on the remote until the TIMER indicator goes on.
Cancel the timer operation	Press TIMER ON/OFF on the remote until the TIMER indicator goes off.

Notes

- If the system is in the recording or recording-pause mode at the preset time, the timer recording will not be made.
- If the system is playing back a tape at the preset time, the system will switch to the tuner, but the timer recording will not be made.

Adjusting the sound

Press MEGA BASS.

“MEGA BASS” appears in the display. To return to normal sound, press the button again.

Selecting the audio emphasis

Selecting the preset effect from the music menu

Press MUSIC MENU repeatedly to select the preset effect you desire.

Each time you press the button, the display changes as follows:

ROCK → POP → JAZZ → FLAT* →

ROCK → ...

* “FLAT” is displayed for a few seconds.

Falling asleep to music

— Sleep Timer

You can set the system to turn off after certain amount of time, so that you can fall asleep to music.

Press SLEEP on the remote.

Every time you press the button, the minute display (the turn-off time) changes as follows:
90 → 80 → 70 → ... → 10 → OFF → 90 → ...

While the Sleep Timer is on, "TIMER" flashes in the display.

To	Press
Check the remaining time	SLEEP on the remote once.
Change the time to turn off	SLEEP on the remote repeatedly to select the time you want.
Cancel the Sleep Timer function	SLEEP on the remote repeatedly until "SLEEP OFF" appears.

Waking up to music

— Daily Timer

You can wake up to music at a preset time every day. Make sure you have set the clock (see page 7).

1 Prepare the sound source you want to play.

- CD: Load a CD.
- Tape: Insert a tape with the side you want to play on facing towards you.
- Radio: Tune in the preset station you want (see page 10).

2 Press CLOCK/TIMER on the remote repeatedly until "SET TMR" appears, then press TUNER MEM/ENTER on the remote.

"ON" appears, and the hour indication flashes.

3 Set the starting time.

Press TUNING/CLOCK/TIMER + or – on the remote repeatedly to set the hour, then press TUNER MEM/ENTER on the remote.

The minute indication begins flashing next.

Press TUNING/CLOCK/TIMER + or – on the remote repeatedly to set the minute, then press TUNER MEM/ENTER on the remote.

The hour indication flashes again.

4 Set the time to stop the playback following the procedure in step 3.

5 Press TUNING/CLOCK/TIMER + or – on the remote repeatedly until the music source you want appears, and then press TUNER MEM/ENTER on the remote.

The display changes as follows:

TUNER → RECORD (tuner) → CD → TAPE → TUNER → ...

The TIMER indicator lights up.

continued

Waking up to music (continued)

6 Press TUNER MEM/ENTER on the remote.

The type of timer followed by the start time, stop time, and the music source, appear, then the original display appears.

7 Press TUNING/CLOCK/TIMER + or – on the remote to adjust the volume, then press TUNER MEM/ENTER on the remote.

8 Press to turn off the system.

To	Do this
Check or change the setting	Turn on the system and then start over from step 1 when the TIMER indicator appears.
Activate the timer operation	Press TIMER ON/OFF on the remote until the TIMER indicator goes on.
Cancel the timer	Press TIMER ON/OFF on the remote until the TIMER indicator goes off.

Precautions

On operating voltage

Before operating the system, check that the operating voltage of your system is identical with the voltage of your local power supply.

On safety

- The system is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the system 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 AC power cord must be changed only at a qualified service shop.

On placement

- Place the system in a location with adequate ventilation to prevent heat build-up the system.
- Do not place the system in an inclined position.
- Do not place the system in locations where it is;
 - Extremely hot or cold
 - Dusty or dirty
 - Very humid
 - Vibrating
 - Subject to direct sunlight.

On heat buildup

- Although the system heats up during operation, this is not malfunction.
- Place the system in a location with adequate ventilation to prevent heat build-up in the system.

If you continuously use this system at a large volume, the cabinet temperature of the top, side and bottom rises considerably. To avoid burning yourself, do not touch the cabinet.

To prevent a malfunction, do not cover the ventilation hole for the cooling fan.

On operation

- 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 system will not operate properly. Remove the CD and leave the system turned on for about an hour until the moisture evaporates.
- When you move the system, take out any discs.

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

Notes on CDs

- Before playing, clean the CD with a cleaning cloth. Wipe the CD from the center out.
- Do not use solvents.
- Do not expose the CD to direct sunlight or heat sources.
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this system. Attempting to do so may damage the system. Do not use such discs.

Note on CD-R/CD-RW playback

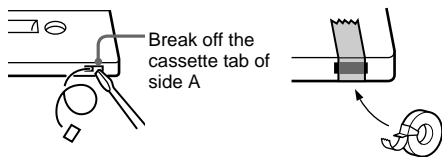
Discs recorded on CD-R/CD-RW drives may not be played back because of scratches, dirt, recording condition or the drive's characteristics. Besides, the discs, which are not yet finalized at the end of recording cannot be played back.

Cleaning the cabinet

Use a soft cloth slightly moistened with mild detergent solution.

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.

continued

Precautions (continued)

Before placing a cassette in the tape deck

Take up any slack in the tape. Otherwise the tape may get entangled in the parts of the tape deck and become damaged.

When using a tape longer than 90 minutes

The tape is very elastic. Do not change the tape operations such as play, stop, and fast-winding (etc.) frequently. The tape may get entangled in the tape deck.

Cleaning the tape heads

Clean the tape heads after every 10 hours of use. Make sure to clean the tape heads before you start an important recording or after playing an old tape. Use separately sold dry-type or wet-type cleaning cassette. For details, refer to the instructions of the cleaning cassette.

Demagnetizing the tape heads

Demagnetize the tape heads and the metal parts that have contact with the tape every 20 to 30 hours of use with a separately sold demagnetizing cassette. For details, refer to the instructions of the demagnetizing cassette.

Troubleshooting

If you have any problem using this system, use the following check list.

First, check that the power cord is connected firmly and the speakers are connected correctly and firmly.

Should any problem persist, consult your nearest Sony dealer.

General

The clock setting/radio presetting/timer is canceled.

- The power cord is disconnected or a power failure occurs longer than half a day.

Redo the following:

— “Setting the time” on page 7

— “Presetting radio stations” on page 10

If you have set the timer, also redo “Timer-recording radio programs” on page 15 and “Waking up to music” on page 17.

There is no sound.

- Turn VOLUME clockwise and hold.
- The headphones are connected.
- Insert only the stripped portion of the speaker cord into the SPEAKER terminal. Inserting the vinyl portion of the speaker cord will obstruct the speaker connections.

There is severe hum or noise.

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

The clock indication does not show the correct time.

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

The timer does not function.

- Set the clock correctly.
- You cannot activate the Timer-recording and Daily Timer at the same time.
- When you used the Sleep Timer, Daily Timer and Timer-recording will not turn on the system until the Sleep Timer turns it off.

The remote does not function.

- There is an obstacle between the remote and the system.
- The remote is not pointing in the direction of the system's sensor.
- The batteries have run down. Replace the batteries.

The color irregularity on a TV screen persists.

- Turn off the TV set once, then turn it on after 15 to 30 minutes. If the color irregularity still persists, place the speakers farther away from the TV set.

Speakers

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

- Check the speaker connection and speaker placement.

Sound lacks bass.

- Check that the speaker's + and - terminals are connected correctly.

CD Player

The CD compartment does not close.

- The CD is not placed properly.

The CD will not play.

- The CD is not lying flat in the CD compartment.
- The CD is dirty.
- The CD is inserted label side down.
- Moisture condensation has built up. Remove the CD and leave the system turned on for about an hour until the moisture evaporates.

Tape Deck

The tape does not record.

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

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

- The heads are dirty. Clean them (see "Cleaning the tape heads" on page 20).
- The record/playback heads are magnetized. Demagnetize them (see "Demagnetizing the tape heads" on page 20).

The tape does not erase completely.

- The record/playback heads are magnetized. Demagnetize them (see "Demagnetizing the tape heads" on page 20).

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

- The capstans or pinch rollers are dirty. Clean them (see "Cleaning the tape heads" on page 20).

Noise increases or the high frequencies are erased.

- The record/playback heads are magnetized. Demagnetize them (see "Demagnetizing the tape heads" on page 20).

Tuner

Noise is heard.

- Adjust the antennas.

A stereo FM program cannot be received in stereo.

- Set MONO STEREO so that "STEREO" appears.

Messages

The following message may appear in the display during operations.

NO DISC

- There is no disc on the CD compartment.
-

Specifications

AUDIO POWER SPECIFICATIONS: (U.S.A. model only)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

with 8 Ω loads both channels driven, from 120 - 10,000 Hz; rates 12 W per channel minimum RMS power, with no more than 10% total harmonic distortion from 250 mW to rated output.

Amplifier section

Canadian model:

Continuous RMS power output (reference)
12 + 12 W
(8 Ω at 1 kHz, 10% THD)

European model:

DIN power output (rated) 11 + 11 W
(8 Ω at 1 kHz, DIN)
Continuous RMS power output (reference)
12 + 12 W
(8 Ω at 1 kHz, 10% THD)
Music power output (reference)
27 + 27 W

Other model:

The following measured at AC 230 V, 50/60 Hz
DIN power output (rated) 11 + 11 W
(8 Ω at 1 kHz, DIN)
Continuous RMS power output (reference)
12 + 12 W
(8 Ω at 1 kHz, 10% THD)

Outputs

PHONES:
(stereo mini jack)

SPEAKER: Accepts impedance of 8 to 16 Ω

CD player section

System Compact disc and digital audio system
Laser Semiconductor laser ($\lambda=780$ nm)
Emission duration: continuous
Frequency response 20 Hz - 20 kHz (± 0.5 dB)

Tape player section

Recording system 4-track 2-channel stereo
Frequency response 50 - 13 000 Hz (± 3 dB), using Sony TYPE I cassette
Wow and flutter $\pm 0.15\%$ W.Peak (IEC)
0.1% W.RMS (NAB)
 $\pm 0.2\%$ W.Peak (DIN)

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range 87.5 - 108.0 MHz
Antenna FM lead antenna
Antenna terminal 75 Ω coaxial
Intermediate frequency 10.7 MHz

AM tuner section

Tuning range
Pan-American model: 530 - 1 710 kHz
(with the interval set at 10 kHz)
531 - 1 710 kHz
(with the interval set at 9 kHz)
European model: 531 - 1 602 kHz
(with the interval set at 9 kHz)
Other models: 531 - 1 602 kHz
(with the interval set at 9 kHz)
530 - 1 710 kHz
(with the interval set at 10 kHz)
Antenna AM loop antenna
Antenna terminal External antenna terminal
Intermediate frequency 450 kHz

Speaker

Speaker system	Bass-reflex type
Speaker units	Full range 10 cm, cone type
Nominal impedance	8 Ω
Dimensions (w/h/d)	Approx. 145 \times 238 \times 171 mm
Mass	Approx. 1.4 kg net per speaker

General

Power requirements

North American model:	120 V AC, 60 Hz
European model:	230 V AC, 50/60 Hz
Mexican model:	120 V AC, 60 Hz
Argentine model:	220 V AC, 50/60 Hz
Hong Kong model:	230 V AC, 50/60 Hz
Chinese model:	220 V AC, 50/60 Hz
Other models:	230 V AC, 50/60 Hz

Power consumption

U.S.A. model:	35 W
Canadian model:	35 W
European model:	40 W
	0.9 W (in the standby mode)
Other models:	40 W

Dimensions (w/h/d): Approx. 145 \times 238 \times 234 mm

Mass: Approx. 3.4 kg

Supplied accessories: AM loop antenna (1)
Remote Commander (1)
Batteries (2)
FM lead antenna (1)
Speaker pads (8)

Design and specifications are subject to change without notice.

警告

为防止火灾或触电危险，请勿让机器受雨淋或置于潮湿处。

请勿打开机壳以免发生触电危险。请找有资格者为您维修。

别把机器安装在书架或壁橱等狭窄的地方。



为防火灾，请别在装置的通风孔上盖住报纸，餐巾，窗帘等。也别点着蜡烛放在装置上。

为防火灾或触电危险，请别在装置上放置花瓶等装满液体的东西。



别随便抛弃电池。必须当有害垃圾处理。

上海索广电子有限公司
上海市 闵行区 剑川路 930 号

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* 用于欧洲型号为限

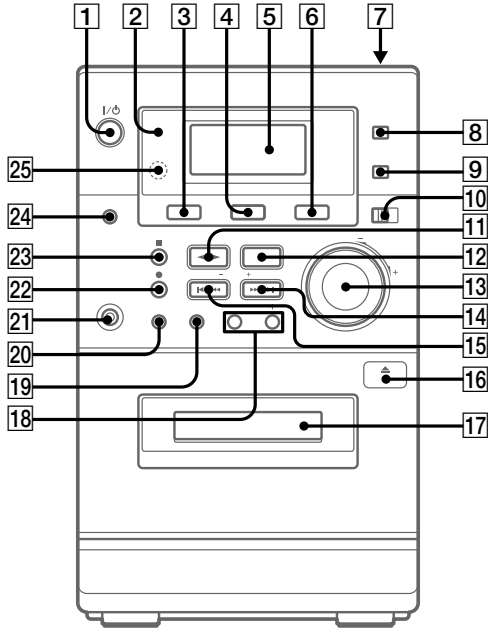
CS

部件识别

项目是按照字母顺序排列。

详情请参考括弧 () 内所指示页次。

主机

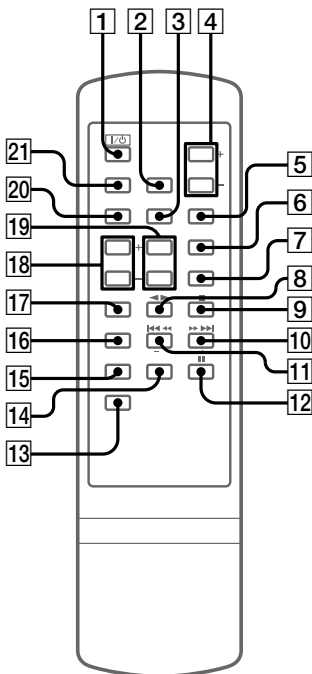


盒带室 **17** (13)
CD **4** (8, 9, 14)
DISPLAY (显示) **24** (9, 11)
显示窗 **5** (8, 9, 10)
ENTER (输入) **19** (7, 9, 10, 12)
ISS **10** (14)
MEGA BASS (强大低音) **8** (16)
MONO STEREO (单耳声立体声) **10** (11)
MUSIC MENU (音乐项目单) **9** (16)
PHONES (耳机) 插孔 **21**
PLAY MODE (播放模式) **20** (8, 9)

PRESET +/- (预调升/降) **18** (10, 11, 12)
RDS (欧洲型号为限) /DIR **20** (12, 13, 14, 15)
遥控传感器 **25**
TAPE (磁带) **3** (13)
TIMER (定时器) 指示灯 **2** (15, 18)
TUNER (调谐器) **6** (10, 11, 14)
TUNER MEM (调谐存储器) **19** (10)
TUNING + (调谐升) **14** (10, 11, 12, 15)
TUNING - (调谐降) **15** (10, 11, 12, 15)
VOLUME (音量) 控制器 **13**

按钮说明

I/O (电源) **1** (7, 11, 15, 18)
CD
◀◀◀ (后退) **15** (8, 9)
▶▶▶ (前进) **14** (8, 9)
▶▶ (播放) **11** (8, 9)
⏸ (暂停) **23** (8)
▲ PUSH OPEN/CLOSE (按开/闭) **7** (8)
■ (停止) **12** (8, 9)
磁带
▶▶▶▶ (快进绕) **14** (13)
⏸ (暂停) **23** (13)
▶▶ (播放) **11** (13, 14, 15)
● (录音) **22** (14, 15)
◀◀◀ (重绕) **15** (13)
▲ PUSH OPEN/CLOSE (按开/闭) **16** (13)
■ (停止) **12** (13, 14)



CD **3** (8, 9, 14)
 CLOCK/TIMER (时钟/定时器) **15** (7, 15, 17)
 DISPLAY (显示) **16** (9, 11)
 MEGA BASS (强大低音) **2** (16)
 MUSIC MENU (音乐项目单) **21** (16)
 PLAY MODE (播放模式) / RDS (欧洲型号为限) / DIR **17** (8, 9, 12, 13, 14, 15)
 PRESET +/- (预调升/降) **18** (10, 11)
 REPEAT (反复) **7** (8)
 SLEEP (睡眠) **13** (17)
 TAPE (磁带) **20** (13)
 TIMER ON/OFF (定时器开/关) **14** (15, 18)
 TUNER/BAND (调谐器/波段) **5** (10, 11, 14)
 TUNER MEM/ENTER (调谐存储器/输入) **6** (7, 9, 10, 12, 15, 17, 18)

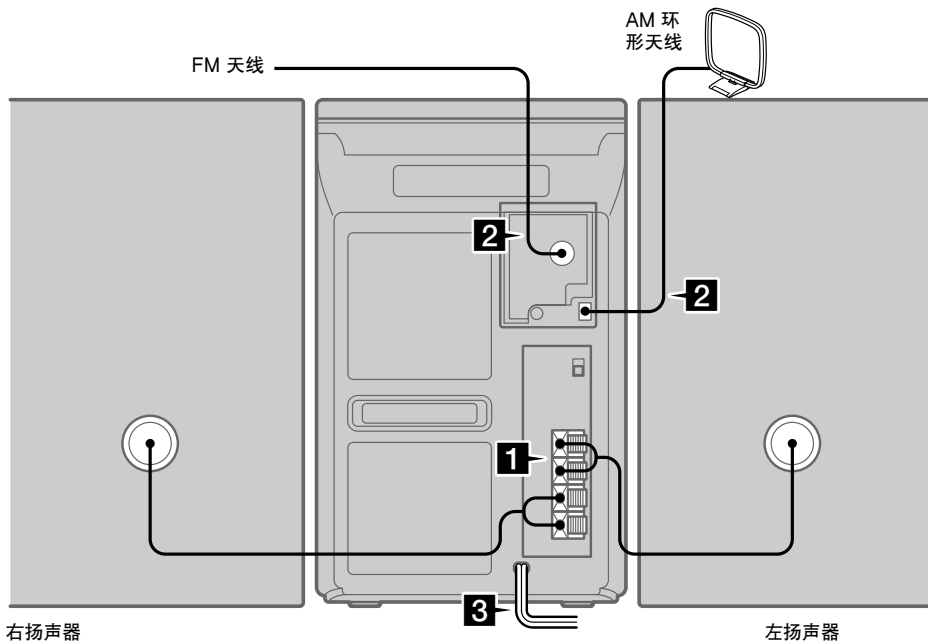
TUNING/CLOCK/TIMER +/- (调谐/时钟/定时器升/降) **19** (7, 10, 11, 12, 15, 17, 18)
 VOLUME +/- (音量增/减) **4**

按钮说明

▶▶ (快进绕) **▶▶** (进绕) **10** (8, 9, 13)
◀◀ (后退) **◀◀** (重绕) **11** (8, 9, 13)
|| (暂停) **12** (8, 13)
▶◀ (播放) **8** (8, 9, 13, 14, 15)
I/⏻ (电源) **1** (7, 11, 15, 18)
■ (停止) **9** (8, 9, 13, 14)

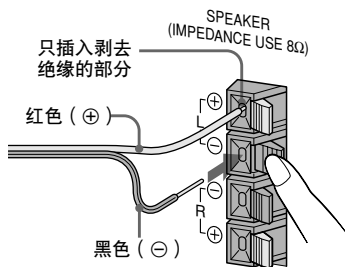
联结系统

用附带的导线和附件按照下列程序 **1** 到 **3** 联结系统。



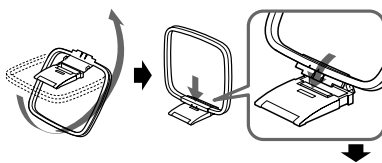
1 连接扬声器。

如下所示，把扬声器导线连接到 SPEAKER 端子。



2 连接 FM/AM 天线。

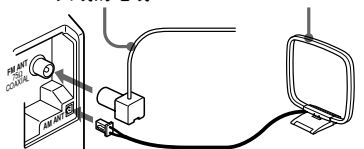
连接前，请先调定好 AM 环形天线。



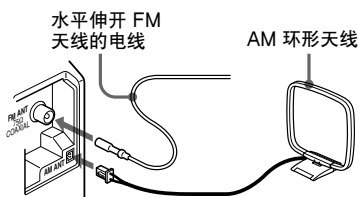
插孔型 **A**

水平伸开 FM 天线的电线

AM 环形天线



插孔型 ②



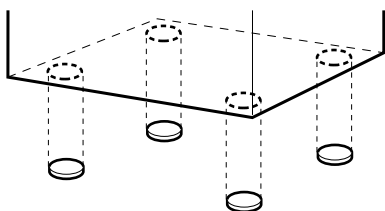
3 把电源线连接到墙上插座。

如果附带的插头转接器不适合墙上插座，可从插头上卸下该转接器（限于配备有转接器的型号）。

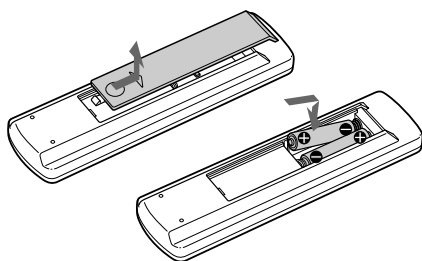
要打开系统电源时，请按 I/⏻（电源）。

要附装扬声器的脚垫时

把附带的扬声器脚垫附装到扬声器的底面以稳定扬声器并防滑动。



在遥控器里装入两个 AAA，4 号 (R03) 电池



要领

当遥控器不能控制操作系统时，即全换新两个电池。

注

当长期不用遥控器时，请卸下电池保存以免可能因电池漏液而造成损害。

设定时间

- 1 打开系统电源。
- 2 按遥控器上的 CLOCK/TIMER。
如果是第一次设定时钟，则请跳到步骤 5。
- 3 反复按遥控器上的 CLOCK/TIMER 至显示器中出现“SET CLK”。
- 4 按遥控器上的 TUNER MEM/ENTER。
- 5 反复按遥控器上的 TUNING/CLOCK/TIMER + 或 - 以设定点钟。
- 6 按遥控器上的 TUNER MEM/ENTER。
- 7 反复按遥控器上的 TUNING/CLOCK/TIMER + 或 - 以设定分钟。
- 8 按遥控器上的 TUNER MEM/ENTER。

要重调系统的时钟时

请再从步骤 1 开始作。

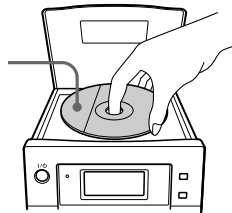
注

当卸下电源线或发生停电时，时钟设定即将被解除掉。

装放CD

- 1 按下 ▲ PUSH OPEN/CLOSE 以打开 CD 光盘室的盖子。
- 2 让标签面朝上地把 CD 装入光盘室。

当播放单曲 (8 cm CD) CD 时, 须把它装在光盘室内圈。

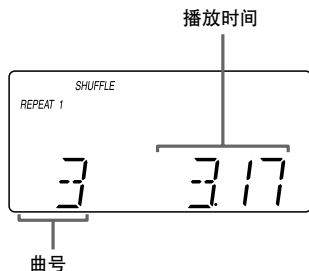


- 3 按下 ▲ PUSH OPEN/CLOSE 以关闭 CD 光盘室的盖子。

播放 CD

—正常播放/任意顺序播放/反复播放

本系统可用不同播放模式播放CD。



- 1 按 CD。
- 2 反复按 PLAY MODE (遥控器上的 PLAY MODE/RDS/DIR) 至显示器中出现了所要模式。

选择	播放
无显示	用原来的顺序播放 CD。
SHUFFLE (任意顺序)	任意顺序地播放 CD 上的曲子。
PROGRAM (程序)	按照您要的顺序播放 CD 上的曲子。(参看第 9 页的“给 CD 上曲子编程”)

- 3 按 ◀▶。

其他操作

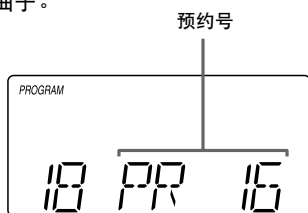
要	请
停止播放	按 ■。
暂停	按 II。 再按一次以恢复播放。
选择曲子	按 ▶▶▶▶ (前进) 或 ◀◀◀◀ (后退)。
找出曲中某一点	播放中, 按住 ▶▶▶▶ (以前进) 或 ◀◀◀◀ (以后退)。当找到所要的点时, 把它释放。
反复地播放 (反复播放)	播放中按 REPEAT 至出现 “REPEAT” 或 “REPEAT 1”。 REPEAT: 反复 CD 上全所有曲子最多 5 次。 REPEAT 1: 只反复一首曲子。 要解除反复播放时, 请按 REPEAT 至 “REPEAT” 或 “REPEAT 1” 消失了显示。
卸下 CD	按 ▲ PUSH OPEN/CLOSE。

给 CD 上曲子编程序

一程序播放

可按照您要播放的顺序编最多32首曲子的程序。

- 1 按 CD，然後裝放 CD。
- 2 反复按 PLAY MODE (遥控器上的 PLAY MODE/RDS/DIR) 至显示器中出现“PROGRAM”。
- 3 按 ◀◀◀ 或 ▶▶▶ 至显示器中出现所要曲子。



所选曲号 (含所选曲子)

- 4 按 ENTER (遥控器上的 TUNER MEM/ENTER)。

曲子即被编入程序。出现下一个程序顺序号。

- 5 要编入附加曲子的程序时，请反复作步骤3到4。

- 6 按 ◀▶。

即开始播放程序。

要	请
解除程序放音	反复按 PLAY MODE (或遥控器上的 PLAY MODE/RDS/DIR) 至显示器中的“PROGRAM” 消失了显示。
在程序尾加录一首曲子	在停止程序放音时，步骤3和4。
抹去全部程序	在停止程序放音时，按一次 ■，或在程序播放中，按两次。

要领

所作程序在播放完后仍能保存在系统的存储器中。
按CD，然後按 ◀▶ 便能播放同程序。

使用CD显示器

反复按 DISPLAY。

显示即将变化如下：

正常播放中

现在曲子的已播放时间 → 现在曲子的
剩馀时间 → 现在 CD 的剩馀时间 → 时钟显示
(5 秒钟) → 现在曲子的已播放时间 →...

停止模式时

总曲号和总播放时间 → 时钟显示 (5 秒钟)
→ 总曲号和总播放时间 →...

预约电台

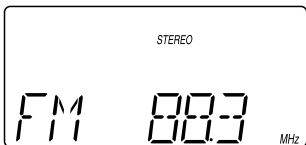
能预约30个电台。

1 反复按 TUNER (遥控器上的 TUNER/BAND) 以选择 FM 或 AM。

2 按住 TUNING (遥控器上的 TUNING/CLOCK/TIMER) + 或 - 至开始改变频率指示, 然後释放按钮。

当系统调谐到电台时, 即自动停止扫描。并出现“STEREO”(立体声节目时)。

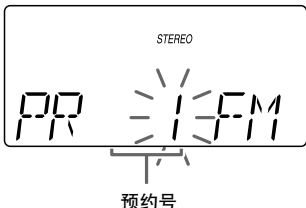
如果不能自动停止, 即请反复按 TUNING (遥控器上的 TUNING/CLOCK/TIMER) + 或 - 以使用手动调谐。



3 按 TUNER MEM (遥控器上的 TUNER MEM/ENTER)。

预约号即出现于显示器。

电台即从预约号 1 开始存入。



4 按 ENTER (遥控器上的 TUNER MEM/ENTER)。

电台即被存入。

5 反复步骤 1 到 4 以存入其他电台。

要调谐信号微弱的电台时

请在步骤 2 反复按 TUNING (遥控器上的 TUNING/CLOCK/TIMER) + 或 - 以使用手动调谐。

要在存有电台的预约号上设定另外电台时

请再从步骤 1 开始作。在步骤 3 之後, 请反复按 PRESET + 或 - 以选择您要存入另外电台的预约号并按 ENTER (遥控器上的 TUNER MEM/ENTER)。

您便可在所选预约号上预约新电台。

要抹去所有预约电台时

1 按住 TUNER MEM (遥控器上的 TUNER MEM/ENTER) 至交互出现“ERASE”和“PRESET”。

2 按 ENTER (遥控器上的 TUNER MEM/ENTER)。

所有预约电台都被清除。

要改变 AM 调谐间隔时 (欧洲型号除外)

首先从墙上插座拔下电源线, 然後把机器後面的 AM FREQ STEP 开关设定于 9 kHz 或 10 kHz。

要领

即使您把电源线拔下了或发生停电, 预约的电台仍可保留半天。

听收音机

—预约调谐

请先在调谐器上预约好电台。

1 反复按TUNER (遥控器上的TUNER/BAND) 以选择FM或AM。

2 反复按PRESET + 或 - 以调入所要预约电台。

预约号即在显示器中出现数秒。

当只预约一个电台时，便只能调入一个电台。

要	请
关掉收音机电源	按 I/⏻。

要听非预约电台时

可用手动或自动调谐步骤 2。用手动调谐时，请反复按 TUNING (遥控器上的 TUNING/CLOCK/TIMER) + 或 -。

用自动调谐时，则请按住 TUNING (遥控器上的 TUNING/CLOCK/TIMER) + 或 -。

要领

- 当 FM 节目有噪音时，即请把 MONO STEREO 设定于 MONO 时显示器显示“MONO”。此时，将变无立体声效果，但可改善收音状况。
- 为改善收音状况，请调整好天线。
- 按 DISPLAY，便可以把显示变成时钟显示 (5 秒钟)。

使用收音机数据系统 (RDS)

(欧洲型号为限)

什么叫收音机数据系统?

收音机数据系统 (RDS) 是一项广播服务，电台能和正常的节目信号一起播送附加信息。本调谐器拥有方便的 RDS 功能，例如电台名显示和按节目型式的电台位置。RDS 限于 FM 电台有效*。

注

如果所收听的电台没有适当地传输 RDS 信号或信号太微弱时，RDS 功能将可能不起适当的作用。

* 并非所有的 FM 电台度提供 RDS 服务，它们也不一定提供同类型的服务。您如果不熟悉 RDS 系统，可查询一下当地电台有关该地区的 RDS 服务的详细内容。

接收 RDS 广播

只像普通一样从 FM 波段选择一电台。当您调入了提供有 RDS 服务的电台时，显示器中即出现“RDS”显示。

要检查 RDS 信息时

每次按了 DISPLAY，显示即改变如下：

频率 → RDS 名* → RDS TEXT* → RDS 型式* → 时钟显示 (5 秒钟) → 频率 → ...

* 如果没接收到 RDS 广播，显示器上便可能不显示 RDS 名，RDS TEXT，和 RDS 型式。

接下页

使用收音机数据系统 (RDS) (续)

用节目型式找出电台 (PTY)

可以利用选择节目型式找出所要的电台。系统能从预存于调谐器预约存储器中的RDS电台调入现在广播中型式节目的电台。

节目型式包含 NEWS (新闻), AFFAIRS (时事报导), INFO (信息), SPORT (运动), EDUCATE (教育节目), DRAMA (戏剧), CULTURE (文化), SCIENCE (科学), VARIED (采访, 游戏, 和笑剧), POP M (流行曲), ROCK M (摇滚乐), EASY M (街头音乐), LIGHT M (轻音乐), CLASSICS (古典音乐), OTHER M (其他音乐), WEATHER (天气), FINANCE (金融), CHILDREN (儿童节目), SOCIAL (社会), RELIGION (宗教), PHONE IN (听众电话节目), TRAVEL (旅游), LEISURE (馀暇节目), JAZZ (爵士乐), COUNTRY (乡土音乐), NATION M (民族流行歌曲), OLDIES (旧歌), FOLK M (民谣), DOCUMENT (记录影片), TEST ALARM (紧急广播用试验信号) 和NONE (上述以外的任何节目)。

1 在听收音机时, 按 RDS/DIR (遥控器上的PLAY MODE/RDS/DIR)。

2 反复按 PRESET + 或 - 以选择所要的节目型式。

3 按住 TUNING (遥控器上的 TUNING/CLOCK/TIMER) + 或 -。

当调谐器接收到节目时, 即闪烁着“PTY”。

要领

当所选节目型式并不是现在广播中节目时, 即将出现“TYPE NOT FOUND” (找不到型式)。

要解除PTY时

请再按一次 RDS/DIR (遥控器上的PLAY MODE/RDS/DIR)。

收听交通信息

当调谐器接收到交通信息时, “TRAFFIC INFORMATION” (交通信息) 将在显示器中轴卷。

1 在收听 FM 节目中, 反复按 RDS/DIR (遥控器上的PLAY MODE/RDS/DIR) 至出现“INFO OFF” 或 “INFO ON” 显示。

2 按 ENTER (遥控器上的 TUNER MEM/ENTER) 以设定 “INFO ON”。

能设定配合广播的时间

能设定所接收信息的时钟的时间。

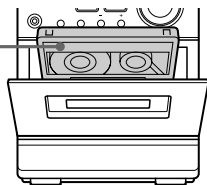
1 在收听 FM 节目中, 反复按 RDS/DIR (遥控器上的PLAY MODE/RDS/DIR) 至出现“SYNC OFF” 或 “SYNC ON” 显示。

2 按 ENTER (遥控器上的 TUNER MEM/ENTER) 以设定 “SYNC ON”。

装插磁带

- 1 按 TAPE。
- 2 按 \blacktriangle PUSH OPEN/CLOSE。
- 3 把磁带装入盒带座，令要播放/录音的面朝前。

令要播放/录音的面朝前



播放磁带

可使用 TYPE I (标准), TYPE II (CrO₂), TYPE IV (金属) 磁带。

- 1 安装录音带。
- 2 按 TAPE。
- 3 反复按 RDS/DIR (遥控器上的 PLAY MODE/RDS/DIR) \rightleftarrows 去播放磁带的一面, 选择 \rightleftarrows 去播放双面或选择 \rightleftarrows *以反复播放磁带的双面。

*连续播放五次后, 磁带即自动停止播放。

- 4 按 \blacktriangleleft 。
再按一次 \blacktriangleleft 以播放倒绕面。

要	请按
停止播放	■
暂停	 再按一次以恢复播放。
快进绕或重绕	磁带停着时, 按 $\blacktriangleleft\blacktriangleleft\blacktriangleleft/\blacktriangleright\blacktriangleright\blacktriangleright$
卸下盒带	\blacktriangle PUSH OPEN/ CLOSE

找出曲子的开头 (AMS*)

播放中, 按 $\blacktriangleleft\blacktriangleleft\blacktriangleleft$ 或 $\blacktriangleright\blacktriangleright\blacktriangleright$ 。

磁带即绕到, 或重绕到下一曲, 或现在播放中曲子的开头, 并自动开始播放。显示器中将显示寻找方向, “+” (前进) 或“-” (后退), 和“1”。

* AMS (自动乐曲探测)

要领

按 DISPLAY, 便可以把显示变成时钟显示 (5秒钟)。

注

下列条件下, AMS 功能可能不起正确的作用:

- 曲子与曲子之间的未录空间短于4秒时。
- 左, 和右频道所录信息完全不同时。
- 有极低电平或极低频声 (例如, 中音木管乐器声) 的连续部分时。
- 系统放置在电视机附近时。(此时, 最好是把系统移离电视机或关掉电视机。)

录到磁带上

— CD 同步录音/手动录音

可以从 CD 或收音机录音。可以使用 TYPE I (标准) 磁带。

步骤	从 CD 录音 (CD 同步录音)	从收音机录音
1	装一空白磁带。	
2	按 CD。	按 TUNER (遥控器上的 TUNER/BAND)。
3	装上要录的 CD。	调入要录的电台。
4	按 ●。 磁带座呈录音备用状态。	
5	如果要切换方向, 可按 ◀▶。	
6	反复按 RDS/DIR (遥控器上的 PLAY MODE/RDS/DIR) 以选择 ↔ 去录单面, 选择 ⇄ 去录双面。	
7	再按一次 ●。 即开始录音。	

要停止录音时

请按 ■。

要领

- 用手动把 CD 录到磁带时, 可在录音暂停模式中按 ◀◀ ◀◀ 或 ▶▶ ▶▶ 以选择曲子 (步骤 4 之后和步骤 6 以前)。
- 要录双面时, 一定要从正面开始录。如果是从倒绕面开始录, 便将在此倒绕面的终端就停止录音。
- 当 AM 节目有噪音时, 请设定 ISS 选择最能减小噪声的位置。

定时录收音机节目

您能在所指定的时间进行预约电台录音。

要作定时录音，须先预约好电台（参看第10页的“预约电台”）并设定好时钟（参看第7页的“设定时间”）。

1 调入要录的预约电台（参看第11页的“听收音机”）。

2 反复按遥控器上的 CLOCK/TIMER 至出现“SET TMR”，然後按遥控器上的 TUNER MEM/ENTER。
即出现“ON”，并闪烁着点钟指示。

3 设定开始时间。

反复按遥控器上的 TUNING/CLOCK/TIMER + 或 - 以设定点钟，然後按遥控器上的 TUNER MEM/ENTER。
其次，即开始闪烁分钟指示。

反复按遥控器上的 TUNING/CLOCK/TIMER + 或 - 以设定分钟，然後按遥控器上的 TUNER MEM/ENTER。
点钟指示再起闪烁。

4 按照步骤3所述程序设定停止录音的时间。

5 反复按遥控器上的 TUNING/CLOCK/TIMER + 或 - 至出现“RECORD”，然後按遥控器上的 TUNER MEM/ENTER。
即点亮 TIMER 指示灯。

6 反复按遥控器上的 TUNING/CLOCK/TIMER + 或 - 以调整已用定时器打开了在听的收音机的音量*，然後按遥控器上的 TUNER MEM/ENTER。

* 此项调整，并不会影响录音的音量。它只是调整在预调时刻打开收音机时听到的音量而已。

7 装一可录磁带，让要录音面朝自己方向。

8 按 ●。

9 如果要切换方向，可按 ◀▶。

10 反复按 RDS/DIR（遥控器上的 PLAY MODE/RDS/DIR）以选择 ⇐ 去录单面，选择 ⇒ 去录双面。

11 按 I/O 以关掉系统电源。

要	请
检查或变更设定	打开系统电源而在出现 TIMER 指示灯时，即从步骤1起开始操作。
激活定时器功能	按遥控器上的 TIMER ON/OFF 至点亮 TIMER 指示灯。
解除定时器操作	按遥控器上的 TIMER ON/OFF 至 TIMER 指示灯熄灭。

注

- 在预调时刻，如果系统呈录音或录音暂停模式，将不能实施定时器录音。
- 在预调时刻，如果系统正在播放磁带，此时，系统将切换到调谐器，但不能实施定时器录音。

调整声音

按 MEGA BASS。

“MEGA BASS”（强大低音）即出现於显示器。要恢复正常声时，请再按一次按钮。

选择声频加强

从音乐项目单中选择预调效果

反复按 MUSIC MENU 以选择所要的预调效果。

每次按了按钮，显示即变化如下：

ROCK（摇滚乐）→ POP（流行曲）
→ JAZZ（爵士乐）→ FLAT* → ROCK
（摇滚乐）→ …

* 显示数秒“FLAT”。

听着音乐入睡

—睡眠定时器

可以将本系统设定於某一段时间之後，自动关掉电源以便听着音乐入睡。

按遥控器上的 SLEEP。

每次按了按钮，分钟显示（到关掉电源的时间）即将变化如下：

90 → 80 → 70 → ... → 10 → OFF → 90 → ...

睡眠定时器 (Sleep Timer) 打开着时，显示器中将闪烁着“TIMER”。

要	请
检查剩余时间	按一次遥控器上的 SLEEP。
改变到关掉电源的时间	反复按遥控器上的 SLEEP 至出现所要的时间。
解除睡眠定时器功能	反复按遥控器上的 SLEEP 至出现“SLEEP OFF”显示。

用音乐闹醒

—每日定时器

您可以在预调的每天一定的时刻用音乐闹醒您。但须设定准时钟（参看第 7 页）。

1 准备好要播放的声源。

- CD：装放好 CD 光盘。
- 磁带：装插磁带，让要播放面对着自己方向。
- 收音机：调入所要的预约电台（参看第 10 页）。

2 反复按遥控器上的 CLOCK/TIMER 至出现“SET TMR”，然後按遥控器上的 TUNER MEM/ENTER。

即出现“ON”，并闪烁着点钟指示。

3 设定开始时间。

反复按遥控器上的 TUNING/CLOCK/TIMER + 或 - 以设定点钟，然後按遥控器上的 TUNER MEM/ENTER。

其次，即开始闪烁分钟指示。

反复按遥控器上的 TUNING/CLOCK/TIMER + 或 - 以设定分钟，然後按遥控器上的 TUNER MEM/ENTER。

点钟指示再起闪烁。

4 按照步骤 3 所述程序设定停止播放的时间。

5 反复按遥控器上的 TUNING/CLOCK/TIMER + 或 - 至出现所要音乐信号源，然後按遥控器上的 TUNER MEM/ENTER。

显示即变化如下：

TUNER → RECORD (调谐器) → CD → TAPE → TUNER → ...

即点亮 TIMER 指示灯。

接下頁

用音乐闹醒 (续)

- 6** 按遥控器上的 TUNER MEM/ENTER。
定时器型式将随开始时间, 停止时间, 和音乐信号源出现显示, 然後恢复原来显示。
- 7** 按遥控器上的 TUNING/CLOCK/TIMER + 或 - 以调整音量, 然後按遥控器上的 TUNER MEM/ENTER。
- 8** 按 I/⏻ 以关掉系统电源。

要	请
检查或改变设定	打开系统电源而在出现 TIMER 指示灯时, 即从步骤1起开始操作。
激活定时器功能	按遥控器上的 TIMER ON/OFF 至点亮 TIMER 指示灯。
要解除定时器时	按遥控器上 TIMER ON/OFF (定时器开关) 至 TIMER 指示灯熄灭。

使用前须注意

操作电压须知

在操作使用系统之前，请检查您系统的操作电压是否符合当地的电源电压。

安全须知

- 如果机器电源线仍接插在墙上插座（主电源），则即使关掉了机器的电源开关，机器依然没有断开 AC 电源的。
- 当长期不使用机器时，务请从墙上插座拔下机器的电源线插头。要拔开电源线时，必须抓住插头，别拉着导线部分拔。
- 万一有任何杂物或液体掉进组成机里面时，必须找持有资格的人检查过以后才能再操作使用。
- 要更换 AC 电源线时，必须找专门服务店。

放置时须知

- 机器必须安放在有适当通风的地方以防机器内积热。
- 别把机器放在倾斜的地方。
- 别把机器放在如下地方：
 - 太热或太冷。
 - 多灰尘或太脏。
 - 太潮湿。
 - 有振动。
 - 会直接晒到太阳。

内积热须知

- 操作时，机器会发生内积热。这并不是故障。
- 机器应放置在通风处以防内积热不能散热。

如果长时间用大音量使用本机，则机壳顶面，侧面和底面的温度会升到很高。此时，请不要去摸机壳以免烫伤。

为防机器故障，切勿盖住冷却风扇的通风孔。

操作须知

- 如果把机器从寒冷处直接移到温暖处，或把机器放置在极潮湿的房间里，则 CD 唱机内的透镜面上可能会发生湿气冷凝。因此，机器将不能作适当的操作。此时，请取出 CD，让机器打开着电源放置大约 1 个小时让冷凝水分蒸发乾。
- 要移动机器时，须先取出一切光盘。

关于您的机器如果还有任何疑问或问题，请咨询附近的 Sony 经销店。

CD 须知

- 播放 CD 前，请用清洁布擦拭乾净。须从 CD 的中心向外擦拭。
- 不可用溶剂去清洁 CD。
- 别让 CD 直接晒到太阳或暴露於热源旁边。
- 本机不能用於播放不规则形的光盘（例如心形，方形，星形）。如勉强试图使用，可能会损坏机器。

CD-R/CD-RW 播放须知

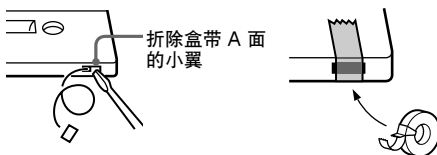
CD-R/CD-RW 激励所录光盘，可能因有刮痕，肮脏，录音条件或激励特性的关系而不能播放。又凡未录到终了的光盘也不能播放的。

清洁机壳

可用软布蘸湿温和的洗涤剂溶液擦拭清洁。

要永久保存录音带时

为防有用的录音带意外地被重录，如图所示，请折除盒带 A 面或 B 面的盒带小翼。



以后如果要再利用此磁带时，可用粘胶带盖住小翼凹孔。

[接下页](#)

使用前须注意 (续)

要把盒带装入录音带座之前

请卷紧松懈的录音带。否则录音带可能会缠住录音带座的零件而损坏了机构。

使用 90 分钟以上的长录音带时

这种录音带伸缩性大。故不要频繁地改变播放。停止，和快绕等磁带操作。因为录音带可能会缠住在录音带座内。

清洁磁头

每使用过 10 小时之后，即请清洁一下磁头。每在作重要录音之前或播放了陈旧的录音带之后，都一定要清洁一下磁头。清洁磁头可利用另售乾式或湿式的清洁盒带。

磁头去磁

每使用过 20 到 30 个小时，接请用另售的去磁盒带给磁头和接触到录音带的金属部分去磁。详细，请参考去磁盒带的使用说明书。

故障探寻

用本机时如果发生问题，可用下表检查一下。

首先请检查电源线是否接插稳固和扬声器是否连接妥当而稳固。

问题仍不能解决时，请洽询附近的 Sony 销售店。

共通

时钟设定/收音机预约/定时器被解除了。

- 拔下了电源线或发生停电超过半天。

请重作下列操作：

- 第 7 页的“设定时间”
- 第 10 页的“预约电台”

如果已设定了定时器，也须再做第 15 页的“定时录收音机节目”和第 17 页的“用音乐闹醒”。

没有声音。

- 顺时针方向转住 VOLUME。
- 连接着头戴耳机。
- 只塞入剥除了绝缘层的扬声器导线到 SPEAKER 插孔。如果塞入乙烯树脂绝缘层的扬声器导线部分将阻碍扬声器的连接。

有严重的哼声或噪声。

- 电视机或录像机放置太靠近立体声音响系统。请把立体声音响系统移离电视机或录像机。

时钟的时刻指示不准确。

- 发生了停电。请重新设定好时钟和定时器的时间。

定时器不起作用。

- 正确地设定好时钟。
 - 不能同时打开定时录音和每日定时器。
 - 当使用睡眠定时器时，在睡眠定时器关掉以前，每日定时器和定时录音设定是不能按照设定打开系统电源的。
-

遥控器不起作用。

- 在遥控器和本机之间有障碍物。
- 遥控器没有正确地指向机器的传感器。
- 电池已耗光。请更换电池。

电视机屏幕持续地彩色异常。

- 关掉一下电视机电源，等 15 到 30 分钟之後再打开电源。如果彩色异常仍然存在，即请把扬声器移离电视机远些放置。

扬声器

声音只来自一个频道或左，右音量不平衡。

- 检查扬声器的连接状态和扬声器的配置。

声音缺乏低音效果。

- 检查扬声器的+和-端子是否连接妥当。

CD 唱机

CD 托盘不能关闭。

- CD 光盘没有装妥。

CD 不播放。

- CD 没有放平在 CD 光盘室。
- CD 脏了。
- CD 的标签面朝下地装错了。
- 发生了湿气冷凝。请取出 CD 光盘让系统开着电源放置大约 1 个小时至机器里的水分蒸发乾了。

磁带座

磁带不录音。

- 盒带室内没装磁带。
- 盒带上的小翼被折除了。
- 盒带卷到了末端。

磁带既不能录也不能放，或声音太小。

- 磁头脏了（参看第 20 页的“清洁磁头”）。
- 录/放磁头有馀磁。
请给去磁（参看第 20 页的“磁头去磁”）。

录音带不能完全抹音。

- 录/放磁头有馀磁。
请给去磁（参看第 20 页的“磁头去磁”）。

有过大的频率颤动，或声音脱落。

- 主动轴或紧带轮脏了。
请加以清洁（参看第 20 页的“清洁磁头”）。

噪音增大，或高频音被抹去了。

- 录/放磁头有馀磁。
请给去磁（参看第 20 页的“磁头去磁”）。

调谐器

有噪音。

- 调整天线。

立体声的 FM 节目不能收听到立体声。

- 设定 MONO STEREO 使出现“STEREO”显示。

提示

操作机器中，可能会出现如下提示。

NO DISC (无光盘)

- CD 光盘室中没装放光盘。

规格

放大器部分

加拿大型号:

连续RMS功率输出 (基准)
12 + 12 W
(1 kHz 时, 8 Ω , 10%
总谐波失真)

欧洲型号:

DIN功率输出 (额定) 11 + 11 W
(1 kHz 时, 8 Ω ,
DIN)

连续RMS功率输出 (基准)
12 + 12 W
(1 kHz 时, 8 Ω , 10%
总谐波失真)

音乐功率输出 (基准) 27 + 27 W

其他型号:

下列数值是在 AC (交流电) 230 V(伏), 50/60
Hz (赫) 状况下测得
DIN功率输出 (额定)

11 + 11 W
(1 kHz 时, 8 Ω ,
DIN)

连续RMS功率输出 (基准)
12 + 12 W
(1 kHz 时, 8 Ω , 10%
总谐波失真)

输出 (端子)

PHONES: 适用 8 Ω 或以上的头戴
(立体声小型插孔) 耳机
SPEAKER (扬声器): 适用 8 Ω 16 欧姆抗

CD 唱机部分

系统
激光器 光盘和数字音频系统
半导体激光器
($\lambda = 780 \text{ nm}$)
发射延续性: 连续
20 Hz~20 kHz
($\pm 0.5 \text{ dB}$)

频率响应

磁带唱机部分

录音系统
频率响应 4 径迹 2 频道立体声
使用 Sony TYPE I 盒
带时: 50~13 000 Hz
($\pm 3 \text{ dB}$)
频率颤动 $\pm 0.15\% \text{ W.峰值 (IEC)}$
0.1% W.RMS (NAB)
 $\pm 0.2\% \text{ W.峰值 (DIN)}$

调谐器部分

FM 立体声, FM/AM 超外差调谐器

FM调谐器部分

调谐范围 87.5~108.0 MHz
天线 FM 导线天线
天线端子 75 Ω 不平衡式
中频 10.7 MHz

AM调谐器部分

调谐范围
全美洲型号: 530~1 710 kHz
(间隔设定于 10 kHz)
531~1 710 kHz
(间隔设定于 9 kHz)
欧洲型号: 531~1 602 kHz
(间隔设定于 9 kHz)
其他型号: 531~1 602 kHz
(间隔设定于 9 kHz)
530~1 710 kHz
(间隔设定于 10 kHz)
天线 AM 环型天线
天线端子 外部天线端子
中频 450 kHz

扬声器

扬声器系统	低音反射型
扬声器单元	全音频范围 10 cm, 锥型
标称阻抗	8 Ω
尺寸 (宽/高/纵深)	大约 145×238×171 mm
质量	每个扬声器净重大约 1.4 kg

一般规格

电源	
北美洲型号:	120 V AC, 60 Hz
欧洲型号:	230 V AC, 50/60 Hz
墨西哥型号:	120 V AC, 60 Hz
阿根廷型号:	220 V AC, 50/60 Hz
香港型号:	230 V AC, 50/60 Hz
中国型号:	220 V AC, 50/60 Hz
其他型号:	230 V AC, 50/60 Hz

电力消耗	
美国型号:	35 W
加拿大型号:	35 W
欧洲型号:	40 W
	0.9 W (备用模式中)
其他型号:	40 W

尺寸
(宽/高/纵深): 大约 145×238×234 mm

质量: 大约 3.4 kg

附带附件:
AM 环型天线 (1)
遥控器 (1)
电池 (2)
FM 电线天线 (1)
扬声器脚垫 (8)

设计和规格有所变更时, 恕不另行奉告。

