

# *Micro Hi-Fi Component System*

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Operating Instructions



*CMT-SP55TC*

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



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

This system is equipped with the Dolby\* B-type noise reduction system.

\* Manufactured under license from Dolby Laboratories.

“Dolby” and the double-D symbol are trademarks of Dolby Laboratories.

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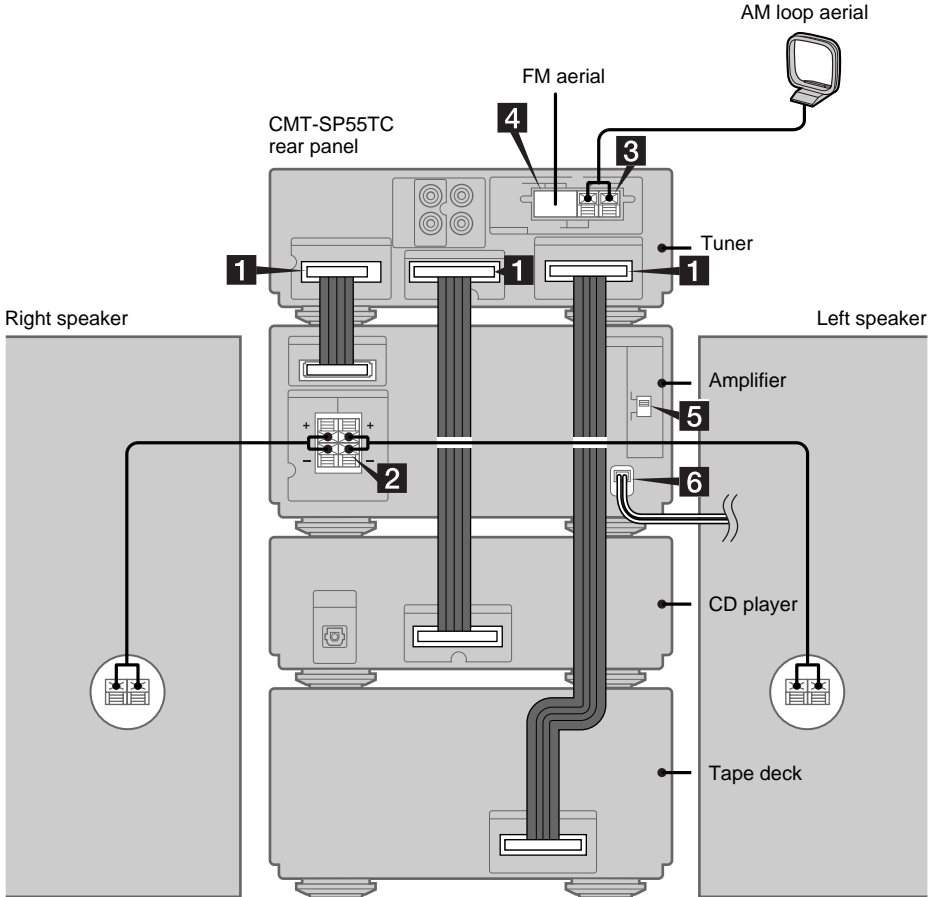
\* European model only

## Step 1: Hooking up the system

Perform the following procedure **1** to **6** to hook up your system using the supplied cords and accessories.

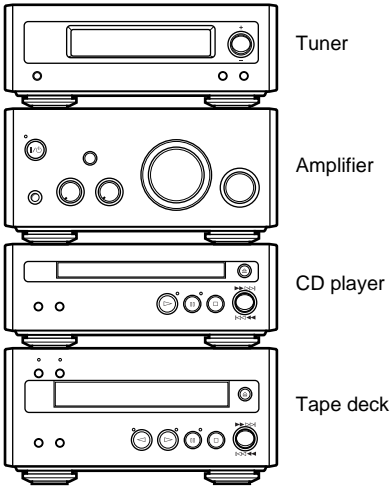
### Note

Be sure to hook up the system with the mains lead unplugged from the mains. Hooking up the system with the mains lead plugged in may cause the system to malfunction.



## Preparation

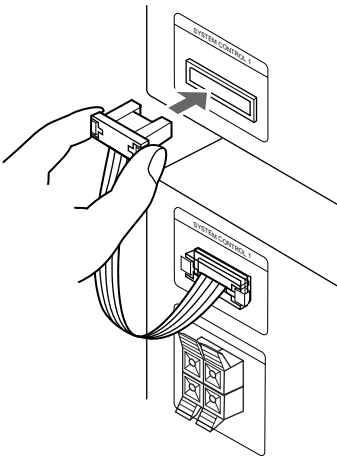
Stack the components vertically in the order shown in the illustration below.



- 1 Connect the system cables to the SYSTEM CONTROL connectors on each component.

### Connect the tuner and amplifier

Connect the system cable on the amplifier to the SYSTEM CONTROL 1 (white) connector on the tuner.



### Connect the tuner and CD player

Connect the supplied system cable to the SYSTEM CONTROL 2 (black) connectors on the tuner and on the CD player.

### Connect the tuner and tape deck

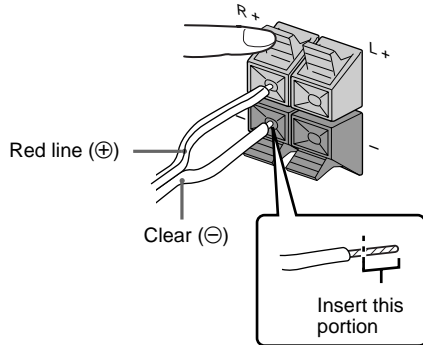
Connect the supplied system cable to the SYSTEM CONTROL 3 (red) connectors on the tuner and on the tape deck.

### Notes

- The system cable is used to send signals and electricity between the components for interlinked operation. Be sure to insert the connector horizontally until it clicks into place. Otherwise the system will not operate correctly.
- Keep the system cable away from the aerials to prevent noise or malfunction.

- 2 Connect the speakers.

Connect the speaker cords to the SPEAKER terminals on the amplifier and to the terminals on the speakers as shown below.

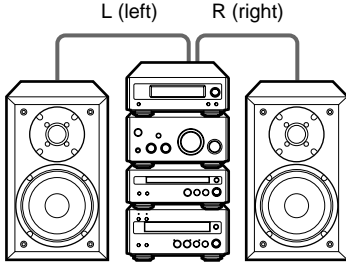


*continued*

## Step 1: Hooking up the system (continued)

The supplied speakers can be used as either the left or right speakers.

Place the speaker connected to the SPEAKER R terminals on the right side, and the speaker connected to the SPEAKER L terminals on the left side of the system.

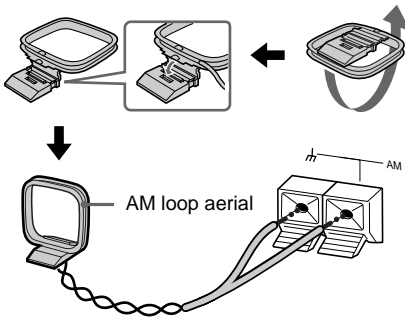


### Notes

- Keep the speaker cords away from the aerials to prevent noise.
- Be sure to connect both left and right speakers. Otherwise, no sound will be produced.

## 3 Connect the AM aerial.

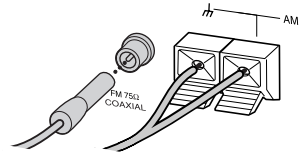
Set up the AM loop aerial, then connect it.



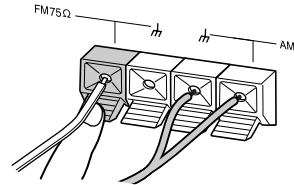
## 4 Connect the FM aerial.

Extend the FM aerial horizontally.

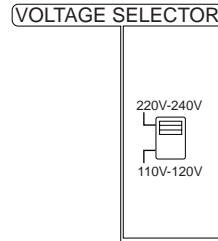
### Jack type (A)



### Jack type (B)



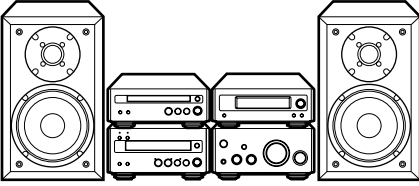
- ## 5
- For models with a voltage selector, set the VOLTAGE SELECTOR on the rear of the amplifier to the position of your local mains voltage.



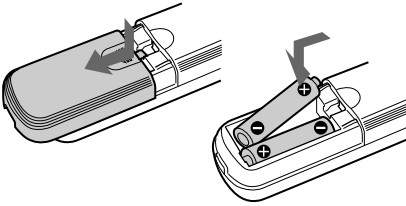
- ## 6
- Connect the mains lead to the mains.

Arranging the components side by side

Once you have finished the connections, you can rearrange the components as desired.



### Inserting two R6 (size AA) batteries into the remote



#### Tip

With normal use, the batteries should last for about six months. When the remote no longer operates the system, replace both batteries with new ones.

#### Notes

- If you do not use the remote for a long period of time, remove the batteries to avoid possible damage from battery leakage.
- Be sure to insert the batteries in correct direction.
- Do not mix a new battery with an old one.
- Do not use different types of batteries together.
- Do not use a battery that is leaking.
- If the battery leaks, clean the battery compartment and replace all the batteries with new ones.

### Adjusting the contrast of the characters in the display

All information for each component appears in the display on the tuner. While holding down DISPLAY, press TUNING + or – to adjust the contrast of the displayed characters. You can finely adjust the contrast in 7 steps from –3 to +3.

### Adjusting the brightness of the display back light

Press DISPLAY in standby mode to light up the display back light. While the display is lit, press TUNING + or – to adjust the back light brightness.

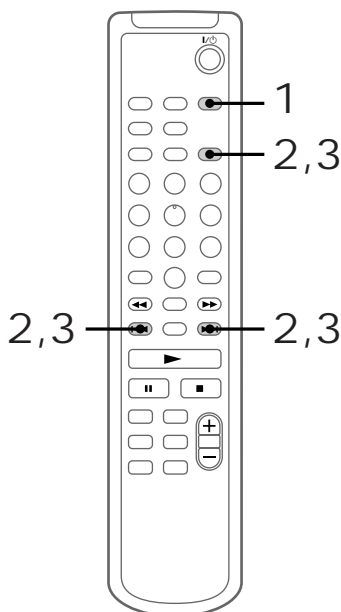
## Step 2: Setting the time

You must set the time beforehand to use the timer functions.

The clock is on a 24-hour system for the European model, and a 12-hour system for other models.

The 24-hour system is used for illustration purposes.

Set the time before turning on the system.



- 1 Press **CLOCK/TIMER SET** while the system is off.

The hour indication flashes.



- 2 Press **◀◀** or **▶▶** to set the hour, then press **ENTER/YES**.

The minute indication flashes.



- 3 Press **◀◀** or **▶▶** to set the minute, then press **ENTER/YES**.

The clock starts.

### If you made a mistake

Start over from step 1.

### To change the preset time

You can change the preset time while the system is on.

- 1 Press **CLOCK/TIMER SET**.
- 2 Press **◀◀** or **▶▶** repeatedly until "SET CLOCK" appears, then press **ENTER/YES**.
- 3 Repeat steps 2 and 3.

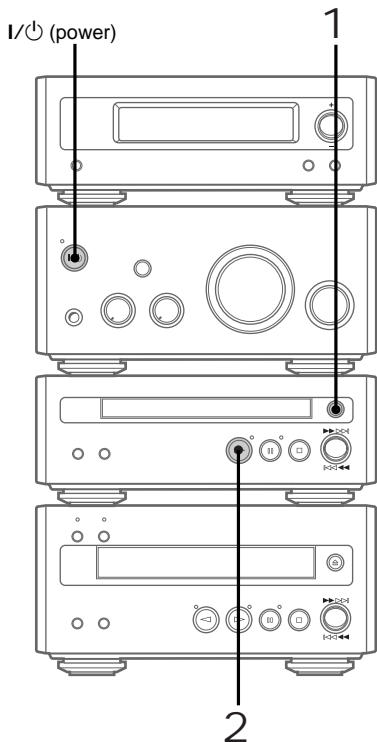
### Tips

- The built-in clock shows the time in the display while the system is off. If you press **DISPLAY** at this time, the display back light lights up, making the clock easier to see.
- The upper dot of the colon flashes for the first 30 seconds, and the lower dot flashes for the last 30 seconds of each minute.

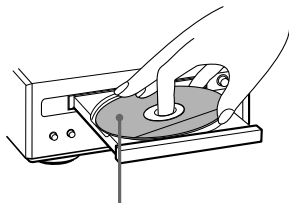


# Playing a CD

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



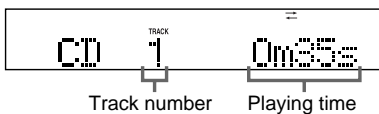
- 1 Press on the CD player and place a CD on the disc tray.



With the label side up.  
When you play a CD single (8 cm CD),  
place it on the inner circle of the tray.

Press again to close the disc tray.

- 2 Press on the CD player.  
Play starts.



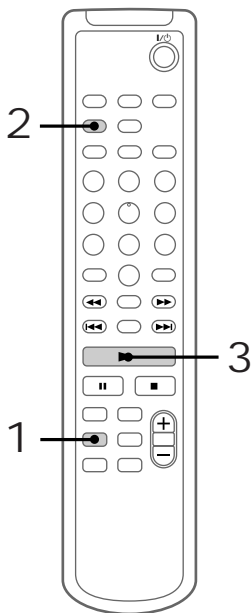
To	Do this
Stop play	Press  on the CD player.
Pause	Press  on the CD player. Press  again or  on the CD player to resume play.
Select a track	Press  or  on the CD player repeatedly.
Find a point in a track	Keep pressing  or  on the CD player during play and release it at the desired point.
Remove the CD	Press  on the CD player.
Adjust the volume	Turn VOLUME.

### Tip

You can switch from another source to the CD player and start playing a CD just by pressing on the CD player (**Automatic Source Selection**).

## Playing CD tracks in random order — Shuffle Play

You can play all the tracks on a CD in random order.



1 Press CD to switch the function to CD.

2 Press PLAY MODE repeatedly until “SHUFFLE” appears.



3 Press ►.  
Shuffle Play starts.

### To cancel Shuffle Play

Press PLAY MODE repeatedly until “SHUFFLE” and “PROGRAM” disappear.

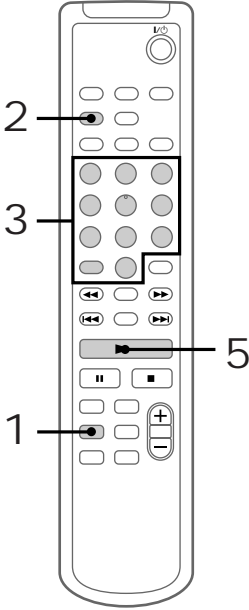
### Tips

- You can start Shuffle Play during normal play by displaying “SHUFFLE”. All the tracks are played in random order.
- To skip a track, press ►►. Press ◀◀ to go back to the beginning of the current track. However, you cannot go back to the previous track.

# Programming CD tracks

## — Programme Play

You can make a programme of up to 25 tracks in the order you want them to be played. You can also make a Synchro Recording of the programme on the tape (see page 20).



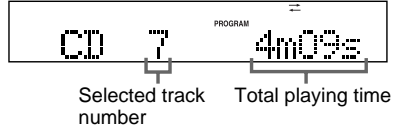
- 1 Press CD to switch the function to CD.
- 2 Press PLAY MODE repeatedly until "PROGRAM" appears.

- 3 Press the track number of the track you want to listen to.

To select track number 11 and higher

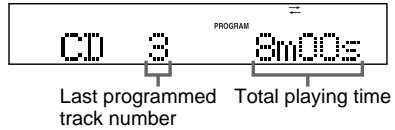
Press >10 once and then the number buttons of the track number.

For example, to select track 32, press >10, 3, and 2.



- 4 To programme additional tracks, repeat step 3.

Each time you programme, the total time of the programmes is displayed. You can make a programme of up to 25 tracks.



- 5 Press ►. All the tracks play in the order you selected.

To	Do this
Cancel Programme and Play	Press ■, then press PLAY MODE repeatedly until "PROGRAM" and "SHUFFLE" disappear.
Add a track to the programme (in stop mode)	Do step 3.
Erase the entire programme	Do steps 1 and 2, then press and hold CLEAR.

*continued*

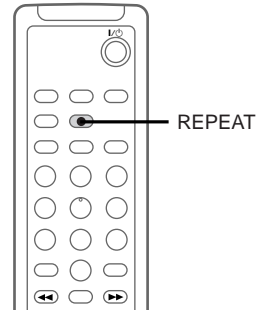
## Programming CD tracks (continued)

### Tips

- You can select the desired track using ◀◀ or ▶▶ in step 3.  
Press ◀◀ or ▶▶ repeatedly until the desired track number appears, then press ENTER/YES.
- The programme you made remains after Programme Play finishes. To play the same programme again, press ▶.
- “Step Full” appears when you try to programme 26 or more tracks.
- “-m--s” appears when the total CD programme time exceeds 100 minutes, or when you select a CD track whose number is 21 or over.

## Playing CD tracks repeatedly — Repeat Play

You can repeat a CD in normal play, Shuffle Play and Programme Play.



- ➔ Press REPEAT during play until “REPEAT” or “REPEAT 1” appears.



REPEAT: For all the tracks on the CD.

Play mode	Repeat
Normal	All the tracks in order
Shuffle Play (page 10)	All the tracks in random order
Programme Play (page 11)	All the programmed tracks in order

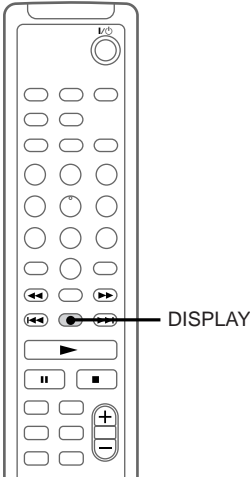
REPEAT 1: For a single track only.

### To cancel Repeat Play

Press REPEAT until “REPEAT” or “REPEAT 1” disappears.

# Using the CD display

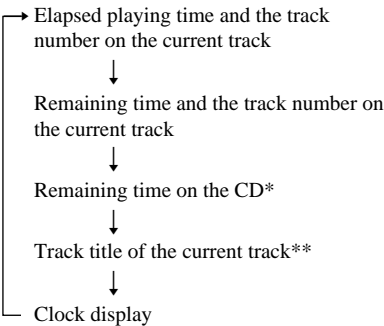
You can check the total number of tracks, the total playing time, and the remaining time on the track or on the CD. When a CD TEXT disc is loaded, you can check the information recorded on the disc, such as the titles or artist names.



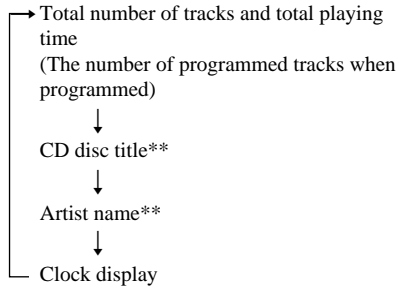
## ➔ Press DISPLAY.

Each time you press the button during normal play or in stop mode, the display changes as follows:

### During normal play



### In stop mode



\* The remaining time of the programme appears during Programme Play.

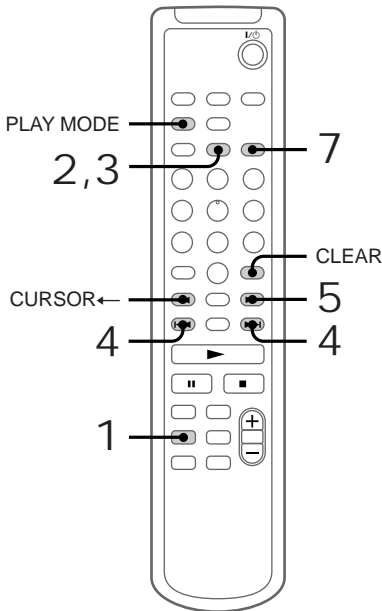
\*\* If no title is labelled or if you select track number 51 or higher of a CD TEXT disc containing 50 or more tracks, nothing appears, then the total number of tracks and the total playing time are displayed.

# Labelling a CD — Disc Memo

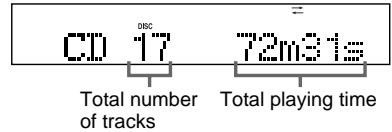
You can label up to 50 CDs with titles of up to 20 symbols and characters. Whenever you load a labelled CD, the title appears in the display.

## Notes

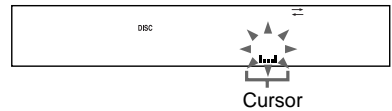
- You cannot label a CD for which “CD-TEXT” appears in the display.
- When labelling CDs for the first time, be sure to perform the operations in “Erasing all disc titles stored in the system memory” on page 15 beforehand.**



- Press CD to switch the function to CD. Make sure the total number of tracks and the total playing time appear in stop mode. If “SHUFFLE” or “PROGRAM” appears in the display, press PLAY MODE repeatedly until both disappear.



- Press NAME EDIT. The text input screen appears, and the cursor flashes.



- Press CHARACTER to select the desired type of character. Each time you press the button, the display changes as follows:  
A (Upper cases) → a (Lower cases) → 0 (Numbers) → ! (Symbols) → □ (Blank space) → A (Upper cases) → ...

- Press ◀◀ or ▶▶ repeatedly to select the desired character.  
To enter a blank space  
Go to step 5 without pressing ◀◀ or ▶▶. You cannot enter a space as the first character.

## To enter a symbol

You can use the following 24 symbols.

! " # \$ % & ' ( ) \* + , - . / : ; < = > ? @ \_ `

---

**5** Press CURSOR→.

The character you selected in step 4 stops flashing and the cursor shifts to the right.



---

**6** Repeat steps 3 to 5 to complete the entire title.

If you made a mistake

Press CURSOR← or → until the character you want to change flashes, then repeat steps 3 to 5.

To erase a character

Press CURSOR← or → until the character you want to erase flashes, then press CLEAR.

Note

"Name Full" appears when you try to input more than 50 CDs.

---

**7** Press ENTER/YES to complete the labelling procedure.

"Complete!!" appears and the disc title is stored in the system memory.

---

To cancel labelling

Press MENU/NO before completing the procedure.

Note

You can label the CD only when the CD player is in stop mode.

---

**Erasing a disc title**

- 1 Press MENU/NO in stop mode.
- 2 Press ◀◀ or ▶▶ repeatedly until "Name Erase ?" appears, then press ENTER/YES. The disc title flashes. "No Name" appears if no disc title is labelled.
- 3 Press ENTER/YES again. "Complete!!" appears and the disc title is erased.

To cancel erasing

Press MENU/NO before completing the procedure.

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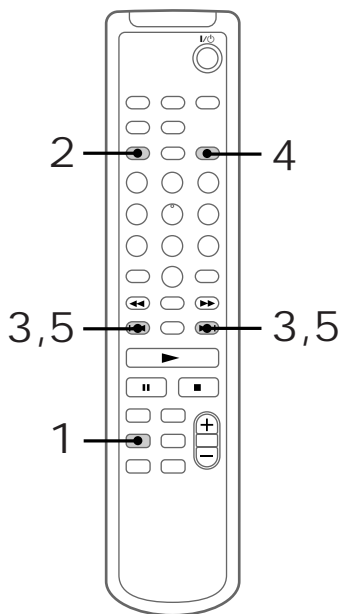
**Erasing all disc titles stored in the system memory**

- 1 Press MENU/NO in stop mode.
- 2 Press ◀◀ or ▶▶ repeatedly until "All Erase ?" appears, then press ENTER/YES. "All Erase ???" appears.
- 3 Press ENTER/YES again. "Complete!!" appears and all disc titles are erased.

To cancel erasing

Press MENU/NO before completing the procedure.

## Checking Disc Memo information



- 3 Press **◀◀** or **▶▶** repeatedly until “Name Check?” appears.



- 4 Press ENTER/YES.  
Up to 20 characters of the disc title appear scrolling in the display.

- 5 Press **◀◀** or **▶▶** repeatedly to select the disc titles stored in the system memory between 01 and 50.

To cancel checking

Press **■**.

Tip

CD TEXT information is copied to MD in some cases.

## Checking a disc title

- 1 Press CD to switch the function to CD.
- 2 Press MENU/NO in stop mode.

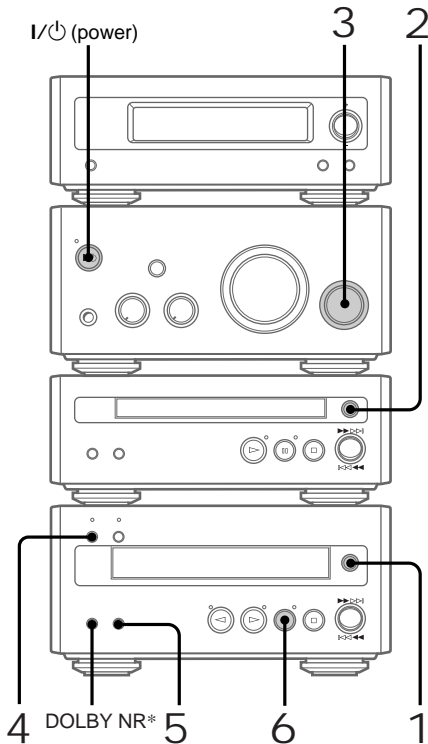


## Recording a CD on a tape — CD-TAPE Synchro Recording

You can make an analogue recording of a CD on a tape. You can use TYPE I (normal) or TYPE II (CrO<sub>2</sub>) tape. The recording level is automatically adjusted.

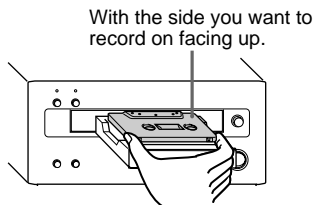
You can also record a programme of favourite tracks (see page 20).

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



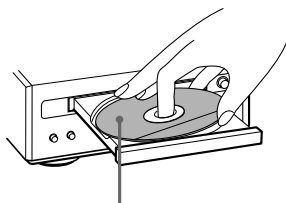
\* This tape deck is equipped with the Dolby B-type noise reduction system.

- 1 Press on the tape deck to open the cassette tray and insert a blank tape.



Press again to close the cassette tray.

- 2 Press on the CD player and place a CD on the disc tray.



Press again to close the disc tray.

- 3 Turn FUNCTION until “CD” appears.

- 4 Press CD SYNC REC.

The CD SYNC REC indicator lights up. The tape deck stands by for recording and the CD player pauses for play.



- 5 Press DIRECTION repeatedly until appears to record on one side or (or ) to record on both sides.

continued

## Recording a CD on a tape (continued)

- 6 Press **⏏** on the tape deck.  
Recording starts.  
When the recording is completed, the CD player and the tape deck stop automatically.

To	Do this
Stop recording	Press <b>⏏</b> on the tape deck or CD player.
Remove the tape and CD	Press <b>⏏</b> on the tape deck and CD player in stop mode.

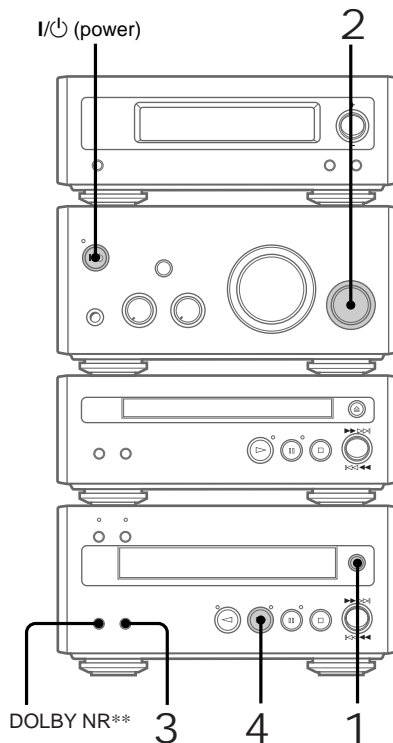
### Tips

- When you want to record on the reverse side, press **◀** on the tape deck in step 5.
- 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.
- If you select both sides recording and the tape reaches the end of the front side part-way through a track, the entire track is recorded again from the beginning of the reverse side.
- When you want to reduce the hiss noise in high-frequency signals recorded at low level, press DOLBY NR after step 5 so "DOLBY NR" appears in the display. Turning DOLBY NR on reduces the noise when playing back these types of signals.

## Playing a tape


You can use any type of tape, TYPE I (normal), TYPE II (CrO<sub>2</sub>) or TYPE IV (metal), since the tape deck automatically detects the tape type (ATS\*).

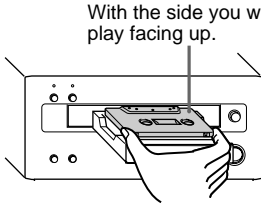
To turn on the system, press **I/⏻** (power).







\* ATS: Automatic Tape Selection




\*\* This tape deck is equipped with the Dolby B-type noise reduction system.




- 1 Press  on the tape deck to open the cassette tray and insert a recorded tape.












Press  again to close the cassette tray.

- 2 Turn FUNCTION until "TAPE" appears.
- 3 Press DIRECTION repeatedly until  appears to play one side or  (or \*) to play both sides.  
\* The tape deck stops automatically after repeating the sequence five times.



- 4 Press  on the tape deck.  
The indicator on the  button lights up, then the tape starts playing from the front side.  
Press  on the tape deck to play the reverse side.

To	Do this
Stop play	Press  on the tape deck.
Pause	Press  on the tape deck. The indicator on the  button lights up. Press again to resume play.

To	Do this
Find the succeeding track (AMS*)	Press  on the tape deck for the front side during playback. Press  on the tape deck for the reverse side during playback. Each time you press the button, the display shows the number of tracks to be skipped.
Find the preceding track (AMS*)	Press  on the tape deck for the front side during playback. Press  on the tape deck for the reverse side during playback. Each time you press the button, the display shows the number of tracks to be skipped.
Fast-forward	Press  or  on the tape deck in stop mode.
Rewind	Press  or  on the tape deck in stop mode.
Remove or replace the tape	Press  on the tape deck.
Adjust the volume	Turn VOLUME.

\* The Automatic Music Sensor (AMS) feature detects a blank space of more than four seconds between tracks to locate tracks quickly.

#### Tips

- You can switch from another source to the tape deck and start playing a tape just by pressing  or  on the tape deck (**Automatic Source Selection**).
- To listen to a tape recorded with the Dolby noise reduction system, press DOLBY NR so "DOLBY NR" appears in the display.

#### Note

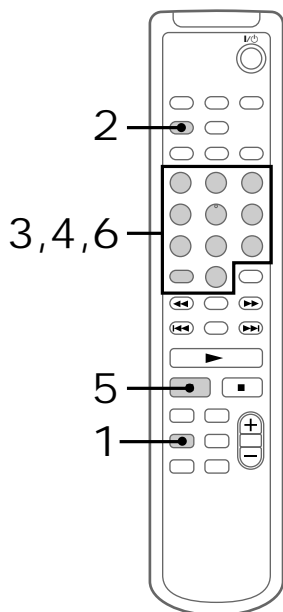
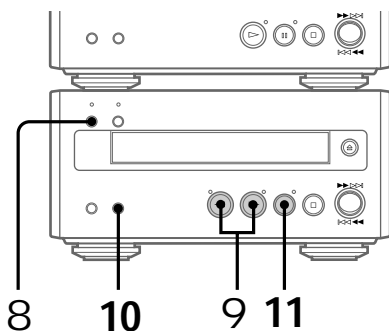
The AMS feature may not work in the following cases:

- the blank space between tracks is four seconds or less.
- the sound source recorded on the right channel is different from that on the left channel.
- low volume or low sound continues for a long time.
- the TV is too close to the system.

# Recording your favourite CD tracks on a tape

## — CD-TAPE Synchro Recording

You can select your favourite CD tracks with the Programme Play feature, then record the programme on a tape using the Synchro Recording feature. This lets you rearrange the track order while making sure the playback time fits on each side of the tape.



## Selecting the tracks

- 1 Press CD on the remote to switch the function to CD.
- 2 Press PLAY MODE on the remote repeatedly until "PROGRAM" appears.
- 3 Press the track number of the track you want to record.  
  
To select track number 11 and higher  
Press >10 once and then the number buttons of the track number.  
For example, to select track 32, press >10, 3, and 2.
- 4 Repeat step 3 to select the tracks to be recorded on the side where recording is to start.

- 5 Press **||** on the remote.  
Recording pauses at the end of the side where recording starts. "P" appears and the total playing time display changes to "0m00s".

- 6 Repeat step 3 to select the tracks to be recorded on the reverse side.

## Recording on a tape

- 7 Insert a blank tape.
- 8 Press CD SYNC REC.  
The tape deck stands by for recording and the CD player pauses for play.

- 
- 9 Press  $\triangleright$  on the tape deck to record starting from the front side.  
To record from the reverse side, press  $\triangleleft$  on the tape deck.

- 
- 10 Press DIRECTION repeatedly until  $\rightleftarrows$  appears to record on one side or  $\rightleftarrows$  (or  $\rightleftarrows$ ) to record on both sides.

If you select both sides recording and the tape reaches the end of the front side part-way through a track, the entire track is recorded again from the beginning of the reverse side. When you start recording from the reverse side, the recording stops at the end of the reverse side even though you select  $\rightleftarrows$ .

- 
- 11 Press  $\square$  on the tape deck.  
CD play and tape recording start.  
When the recording is completed, the CD player stops and the tape deck pauses automatically.

### To stop recording

Press  $\square$  on the tape deck or CD player.

### If the tape becomes full during recording

The CD player and the tape deck automatically stop.

### Tip

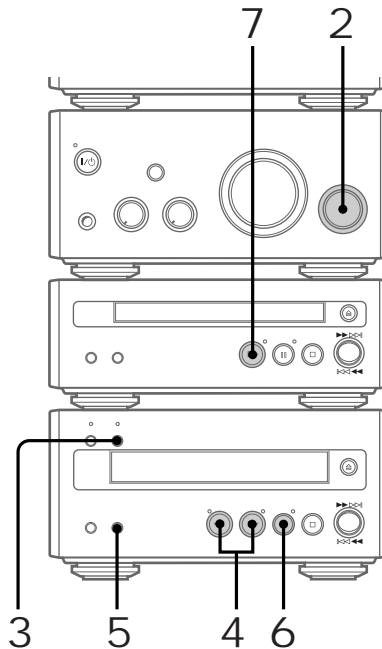
When you want to reduce the hiss noise in high-frequency signals recorded at low level, press DOLBY NR after step 10 so “DOLBY NR” appears in the display. Turning DOLBY NR on reduces the noise when playing back these types of signals.

---

## Recording your favourite portions on a tape

### — Manual Recording

With manual recording, you can record just the portions you like from a CD on a tape. You can also record a radio programme. The recording level is automatically adjusted.



- 
- 1 Insert a blank tape.
  - 2 Turn FUNCTION until “CD” appears.

continued

## Recording your favourite portions on a tape (continued)

- 3 Press REC ●.  
The tape deck stands by for recording.
- 4 Press ▷ on the tape deck to record starting from the front side.  
To record from the reverse side, press ◁ on the tape deck.
- 5 Press DIRECTION repeatedly until ⇄ appears to record on one side or ⇄⇄ (or ⇄⇄) to record on both sides.  
When you start recording from the reverse side, the recording stops at the end of the reverse side even though you select ⇄⇄.
- 6 Press □ on the tape deck.  
Recording starts.
- 7 Press ▷ on the CD player.

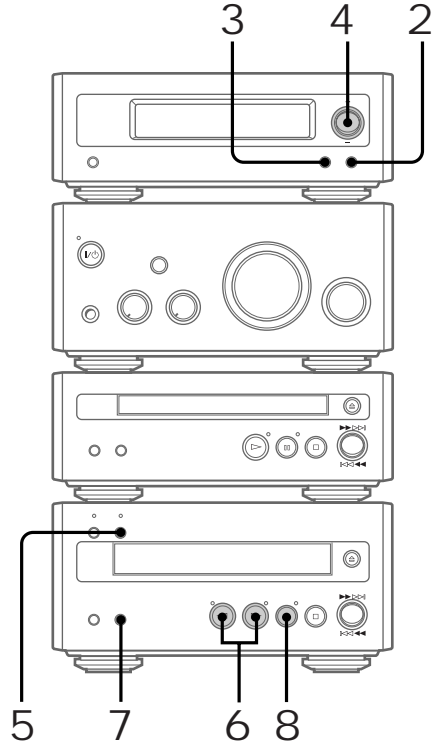
To	Press
Stop recording	□ on the tape deck.
Pause	⏸ on the tape deck.

### Tip

When you want to reduce the hiss noise in high-frequency signals recorded at low level, press DOLBY NR after step 5 so “DOLBY NR” appears in the display. Turning DOLBY NR on reduces the noise when playing back these types of signals.

## Recording from the radio — Manual Recording

You can make an analogue recording a radio programme on a tape. You can use TYPE I (normal) or TYPE II (CrO<sub>2</sub>) tape. The recording level is automatically adjusted.



- 1 Insert a blank tape.
- 2 Press TUNER/BAND repeatedly to select “AM” or “FM”.

3 Press TUNING MODE repeatedly until “PRESET” appears.

4 Press TUNING + or – to select the desired preset station.  
To preset radio stations, see page 24.



Preset number and frequency (or station name\* or RDS station name\*\*)

\* The station name appears only if you have labelled the station (see page 27).

\*\* European model only.

5 Press ● REC.  
The ● REC indicator lights up.  
The tape deck stands by for recording.

6 Press ▷ on the tape deck to record starting from the front side.  
To record from the reverse side, press ◁ on the tape deck.

7 Press DIRECTION repeatedly until ↔ appears to record on one side or ↔ (or ↔) to record on both sides.

If you select both sides recording and the tape reaches the end of the front side part-way through a track, the entire track is recorded again from the beginning of the reverse side. When you start recording from the reverse side, the recording stops at the end of the reverse side even though you select ↔.

8 Press ■ on the tape deck.  
Recording starts.

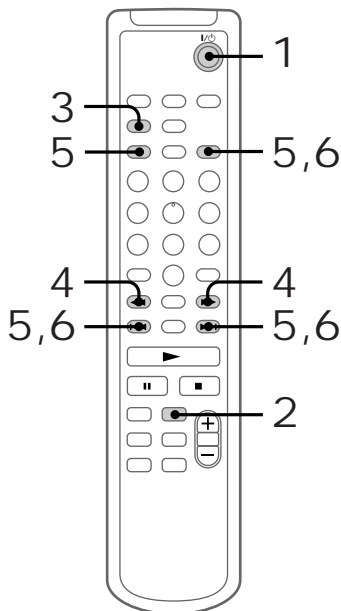
To	Do this
Stop recording	Press □ on the tape deck.
Pause	Press ■ on the tape deck. Press ■ again or ▷ on the tape deck to restart recording.
Remove the tape	Press ⏏ on the tape deck in stop mode.

#### Tips

- If noise is heard while recording an AM radio programme, move the AM loop aerial to reduce the noise or connect a ground wire to the ⚡ terminal (see page 36).
- 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 you want to reduce the hiss noise in high-frequency signals recorded at low level, press DOLBY NR after step 7 so “DOLBY NR” appears in the display. Turning DOLBY NR on reduces the noise when playing back these types of signals.

## Presetting radio stations

You can preset up to 30 stations, 20 for FM and 10 for AM.



- 1 Press **I/⏻** (power) to turn on the system.
- 2 Press **BAND TUNER** repeatedly to select “AM” or “FM”.

- 3 Press **TUNING MODE** repeatedly until “AUTO” appears.



- 4 Press **◀** or **▶**.  
The frequency indication changes and the scanning stops when the system tunes in a station. “TUNED” and “STEREO” (for a stereo programme) appear.  
When you want to stop scanning, press **TUNING MODE**.
- 5 Press **MENU/NO** then **◀** or **▶** repeatedly until “P.Memory ?” appears, then press **ENTER/YES**.  
The preset number flashes.
- 6 Press **◀** or **▶** to select the preset number you want, then press **ENTER/YES**.  
The station is stored.  
Select 1 to 20 for FM, and select 1 to 10 for AM.
- 7 Repeat steps 2 to 6 to preset other stations.



To tune in a station with a weak signal

- 1 Press TUNING MODE repeatedly until “MANUAL” appears in step 3.
- 2 Press ◀◀ or ▶▶ repeatedly to tune in the station and continue from step 5.

To set another station to the exist preset number

Start over from step 2.

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

The AM tuning interval is factory-set to 9 kHz (10 kHz in some areas). To change the AM tuning interval, tune in any AM station first, then turn off the system. While holding down the TUNING + button, turn the system back on. When you change the interval, all the AM preset stations are erased. To reset the interval, repeat the same procedure.

#### Tips

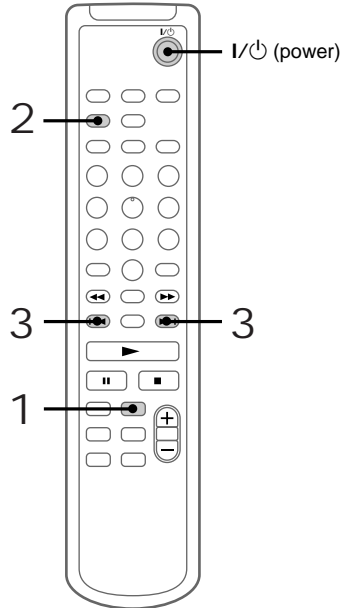
- When a new station is memorized, the station formerly memorized at that preset number is erased.
- The preset stations are retained for about a week even if you disconnect the mains lead or if a power failure occurs.

## Listening to the radio

### — Preset Tuning

Preset radio stations in the tuner’s memory first (see page 24).

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



Tuner

- 1 Press BAND TUNER repeatedly to select “AM” or “FM”.

- 2 Press TUNING MODE repeatedly until “PRESET” appears.



continued

## Listening to the radio (continued)

- 3 Press ◀◀ or ▶▶ to select the desired preset station.



Preset number and frequency (or station name\* or RDS station name\*\*)

- \* The station name appears only if you have labelled the station (see page 27).
- \*\* European model only.

To	Do this
Turn off the radio	Press I/⏻ to turn off the system.
Adjust the volume	Press VOLUME + or -.

## Listening to non-preset radio stations

- Press TUNING MODE repeatedly until “MANUAL” appears in step 2, then press ◀◀ or ▶▶ to tune in the desired station (**Manual Tuning**).
- Press TUNING MODE repeatedly until “AUTO” appears in step 2, then press ◀◀ or ▶▶. The frequency indication changes and the scanning stops when the system tunes in a station (**Automatic Tuning**).

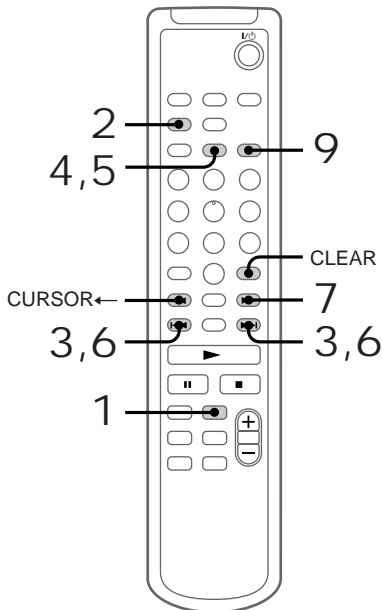
To cancel Automatic Tuning  
Press TUNING MODE.

## Tips

- You can switch from another source to the tuner just by pressing TUNER/BAND on the tuner (**Automatic Source Selection**).
- To improve broadcast reception, adjust the supplied aerials, or connect a commercially available external aerial (see page 36).
- When an FM stereo programme has static noise, press STEREO/MONO on the remote until “MONO” appears. There will be no stereo effect, but the reception will improve. Press the button again to restore the stereo effect.

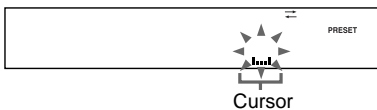
# Labelling the preset stations — Station Name

You can label each preset station with up to 12 characters (Station Name). The Station Name appears when you tune in the station.



- 1 Press BAND TUNER repeatedly to select “AM” or “FM”.
- 2 Press TUNING MODE repeatedly until “PRESET” appears.
- 3 Press ◀ or ▶ repeatedly until the desired preset station to label appears.

- 4 Press NAME EDIT.  
The text input screen appears, and the cursor flashes.



- 5 Press CHARACTER repeatedly to select the desired type of character.  
Each time you press the button, the display changes as follows:  
A (Upper cases) → a (Lower cases) → 0 (Numbers) → ! (Symbols) → □ (Blank space) → A (Upper cases) → ...

- 6 Press ◀◀ or ▶▶ repeatedly to select the desired character.

To enter a blank space

Go to step 7 without pressing ◀◀ or ▶▶. You cannot enter a space as the first character.

To enter a symbol

You can use the following 24 symbols.

! " # \$ % & ' ( ) \* + , - . / : ; < = > ? @ \_ `

- 7 Press CURSOR→.

The character you selected in step 6 stops flashing and the cursor shifts to the right.



*continued*

## Labelling the preset stations (continued)

- 8 Repeat steps 5 to 7 to complete the entire title.

If you made a mistake

Press CURSOR← or → until the character you want to change flashes, then repeat steps 5 to 7.

To erase a character

Press CURSOR← or → until the character you want to erase flashes, then press CLEAR.

- 9 Press ENTER/YES to complete the labelling procedure.

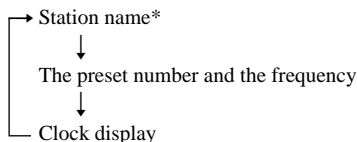
### To cancel labelling

Press MENU/NO before completing the procedure.

### To check the station name

Press DISPLAY.

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



\* When the station is not labelled, the preset number and the frequency are displayed automatically.

### To erase the name

Do steps 1 to 4 and press CLEAR repeatedly until the label disappears, then press ENTER/YES.

## 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 programme signal. 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 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.

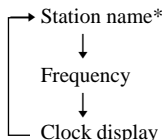
### Receiving RDS broadcasts

- ➔ Simply select a station from the FM band.

When you tune in a station that provides RDS services, the station name appears in the display.

### To check the RDS information

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

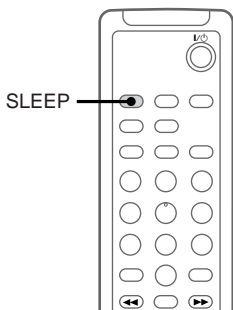


\* If the RDS broadcast is not received, the station name may not appear in the display.

# Falling asleep to music

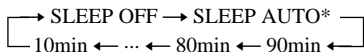
## — Sleep Timer

You can set the system to turn off after a certain time, so that you can fall asleep to music. You can preset the time to turn off in 10 minutes increments.



➔ Press SLEEP repeatedly to select a desired time.

Each time you press the button, the minute display (the turn-off time) changes as follows:



\* The system automatically turns off in 100 minutes, or after the current CD or tape finishes playing.

### To check the turn-off time

Press SLEEP once. Nothing appears in the display for the “SLEEP AUTO” setting.

### To change the time to turn off

Select the time you want by pressing SLEEP.

### To cancel the timer

Press SLEEP repeatedly until “SLEEP OFF” appears.

### Tips

- You can use Sleep Timer, even if you have not set the clock.
- The optional MD deck MDS-SP55 also automatically turns off after the MD finishes playing if you select “SLEEP AUTO”.

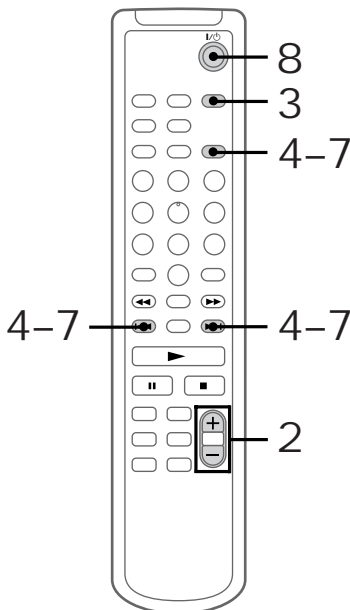
### Notes

- When Sleep Timer is used, you cannot use other timer functions.
- Do not set to “SLEEP AUTO” during Synchro Recording on a tape or an MD with the optional MD deck MDS-SP55.

# Waking up to music

## — Daily Timer

You can wake up to music at a preset time. Make sure you have set the clock (see page 8). To wake up to the radio, preset the radio stations first (see page 24).



- 1 Prepare the sound source you want to play.
  - CD: Place a CD. To start from a specific track, make a programme (see page 11).
  - Tape: Insert a tape.
  - Radio: Tune in a station (see page 25).
  - MD: Insert an MD in the optional MD deck MDS-SP55. To start from a specific track, make a programme.

### Note

To wake up to an MD, you can use the optional MD deck MDS-SP55 only.

- 2 Press VOLUME + or – to adjust the volume.

- 3 Press CLOCK/TIMER SET.

- 4 Press ◀◀ or ▶▶ repeatedly to display “SET DAILY”, then press ENTER/YES.

The hour indication flashes.

- 5 Set the time to start play. Press ◀◀ or ▶▶ repeatedly to set the hour, then press ENTER/YES. The minute indication flashes.



Press ◀◀ or ▶▶ repeatedly to set the minute, then press ENTER/YES.

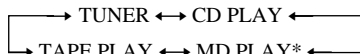
The hour indication flashes again.

- 6 Set the time to stop play following the procedure in step 5.

“OFF TIME NG” appears if the start time and the stop time settings are the same. Change the stop time.

- 7 Press ◀◀ or ▶▶ repeatedly to select the desired sound source, then press ENTER/YES.

The indication changes as follows:



\* Select this to use the optional MD deck MDS-SP55 as the sound source.

When you press ENTER/YES, the start time, the stop time and the sound source appear in turn, before the original display returns. “DAILY” lights up.

- 8 Press I/⏻ to turn off the system.

To cancel the procedure

Press CLOCK/TIMER SET.

To change the setting

Start over from step 1.

To check the setting/activate the timer

Press CLOCK/TIMER SELECT and press ◀◀ or ▶▶ repeatedly until "SEL DAILY" appears. Then press ENTER/YES.

It is not necessary to set the start and stop times every time.

To cancel the timer

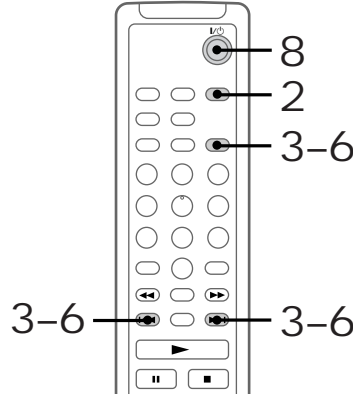
Press CLOCK/TIMER SELECT and press ◀◀ or ▶▶ repeatedly until "TIMER OFF" appears. Then press ENTER/YES.

Notes

- You cannot activate Daily Timer and recording timer at the same time.
- Do not operate the system from the time the system turns on until the play starts (about 30 seconds before the preset time).
- If the system is on at the preset time, the set sound source starts playing.

## Timer recording radio programmes

To timer record, you must first preset the radio station (see page 24) and set the clock (see page 8). You can make a timer recording of a radio programme or the audio signal from a component connected to AUX IN (see page 35).



- 1 Prepare the sound source you want to play.
  - Radio: Tune in the preset radio station (see page 25).
  - AUX: Set the timer of the component connected to AUX IN. For details, refer to the operating instructions of the connected component.
- 2 Press CLOCK/TIMER SET.
- 3 Press ◀◀ or ▶▶ repeatedly until "SET TAPE REC" (or "SET MD REC" when using the optional MD deck MDS-SP55) appears, then press ENTER/YES.

The hour indication flashes.

continued

## Timer recording radio programmes (continued)

### 4 Set the time to start recording.

Press ◀◀ or ▶▶ repeatedly to set the hour, then press ENTER/YES.

The minute indication flashes.



Press ◀◀ or ▶▶ repeatedly to set the minute, then press ENTER/YES.

The hour indication flashes again.

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

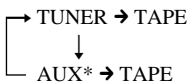
“OFF TIME NG” appears if the start time and the stop time settings are the same.

Change the stop time.

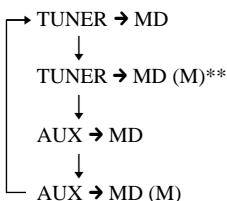
### 6 Press ◀◀ or ▶▶ repeatedly to select the recording source, then press ENTER/YES.

The indication changes as follows:

When recording on a tape



When recording on an MD with the optional MD deck MDS-SP55



\* You can select the connected component for recording source. Set the timer on both systems to the same time.

\*\* When you record onto an MD in monaural format.

When you press ENTER/YES, the start time, stop time and other setting contents appear in turn, then the original display returns.

“REC” lights up.

#### Note

You cannot activate another MD deck (except for the optional MD deck MDS-SP55) with this system’s recording timer.

### 7 Insert a blank tape.

### 8 Press I/⏻ to turn off the system.

To cancel the procedure

Press CLOCK/TIMER SET.

To change the setting

Start over from step 1.

To check the setting/activate the timer

Press CLOCK/TIMER SELECT and press ◀◀ or ▶▶ repeatedly until “SEL TAPE REC” (or “SEL MD REC” when using the optional MD deck MDS-SP55) appears. Then press ENTER/YES.

It is not necessary to set the start and stop times every time.

To cancel the timer

Press CLOCK/TIMER SELECT and press ◀◀ or ▶▶ repeatedly until “TIMER OFF” appears. Then press ENTER/YES.



## Tip

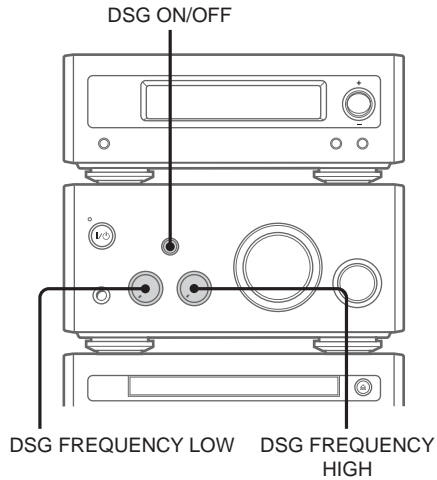
The system automatically turns on about 30 seconds before the start time and prepares for timer-recording. Recording starts as soon as the system is ready, so recording may start earlier than the preset time.

## Notes

- You cannot activate Daily Timer and the recording timer at the same time.
- Do not operate the system from the time the system turns on until the recording starts (about 30 seconds before the preset time).
- If the system is on about 30 seconds before the preset time, the timer-recording will not be activated.
- The volume is reduced to minimum during recording.

## Adjusting the sound

You can adjust the bass and treble using the DSG (Dynamic Sound Generator) function.



### Generating a more dynamic sound

- ➔ Press DSG ON/OFF.  
When DSG is on, “DSG” lights up.

### Adjusting the bass

- ➔ Press DSG ON/OFF to display “DSG”, then turn DSG FREQUENCY LOW.  
You can adjust the bass from MIN to MAX.

### Adjusting the treble

- ➔ Press DSG ON/OFF to display “DSG”, then turn DSG FREQUENCY HIGH.  
You can adjust the treble from MIN to MAX.

## Connecting audio components

To enhance your system, you can connect optional components.

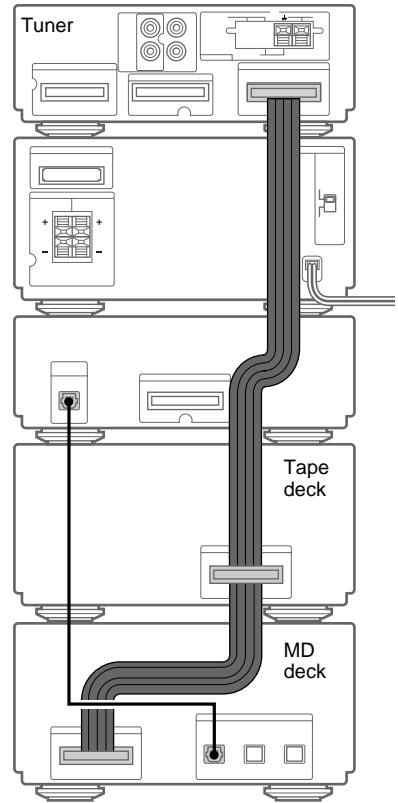
Refer to the operating instructions of each component.

### Connecting the optional MD deck MDS-SP55

CD Synchro Recording and Timer-recording are possible when the SYSTEM CONTROL 3 connectors are connected.

Disconnect the supplied system cable from the SYSTEM CONTROL 3 connectors on the tuner and tape deck, and connect the system cable supplied with the MD deck in the order of the tuner, tape deck and MD deck. Connect the supplied digital cable to DIGITAL OPTICAL OUT on the CD player and DIGITAL OPTICAL CD IN 1 on the MD deck.

Refer to the operating instructions included with the MDS-SP55 MD deck for details on the connection and operation.

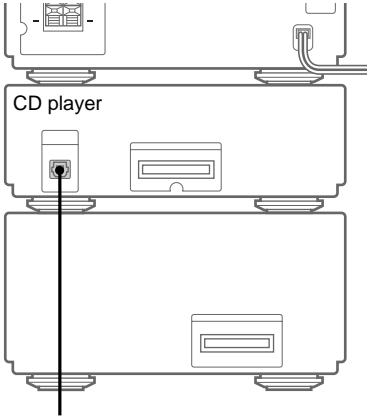


### Tip

Switch the function to “MD” when listening to or recording the sound of the MDS-SP55 MD deck.

## Connecting an MD deck for digital recording

You can make a digital recording of a CD on an MD by connecting your MD deck using an optical cable (not supplied). Refer to the operating instructions included with your MD deck for details.

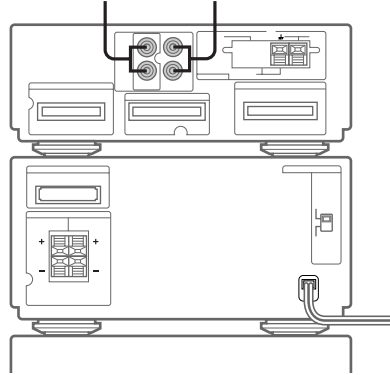


To the digital input of the MD deck

## Connecting another tape deck, TV, VCR, etc., or connecting an MD deck for analogue recording

Connect the component to the AUX IN and OUT jacks on the rear panel of the tuner.

To the audio input of an analogue component      To the audio output of an analogue component



### Tip

Switch the function to "AUX" when listening to or recording the sound of the connected components.

### To attenuate the distortion from the connected components

You can change the audio input level for the AUX input jacks between two levels.

If the sound from a connected component is distorted, reduce the input level.

- 1 Turn FUNCTION until "AUX" appears.
- 2 Press **I/⏻** to turn off the system.
- 3 While holding down DSG ON/OFF, press **I/⏻** to turn on the system.  
"AUX ATT" appears in the display.

When the volume is too low, do steps 1 to 3 again to reset to the original level.

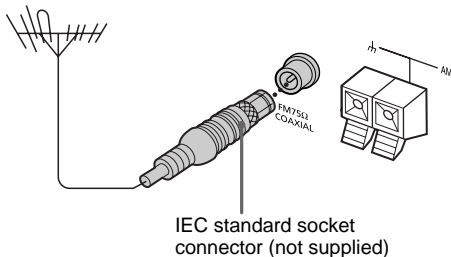
# Connecting external aerials

Connect an external aerial to improve reception.

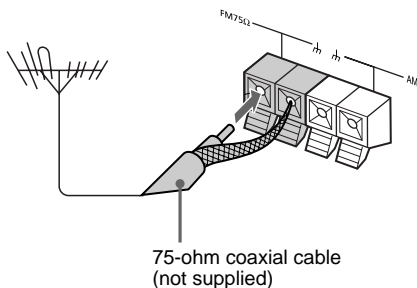
## FM aerial

Connect an commercially available FM external aerial, or you can use a TV aerial instead.

### Jack type Ⓐ

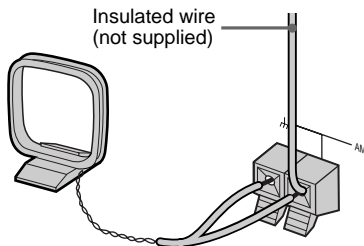


### Jack type Ⓑ



## AM aerial

Connect a 6- to 15- meter insulated wire to the AM aerial terminal. Leave the supplied AM loop aerial connected.



## Important

If you connect an external aerial, connect a ground wire to the  $\hbar$  terminal. To prevent a gas explosion, do not connect the ground wire to a gas pipe.

## Precautions

### On operating voltage (For the model with the voltage selector)

- Before operating the system, check that the operating voltage of your system is identical with the voltage of your local power supply.
- The voltage selector is located at the rear of the apparatus.

### 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 mains if it is not to be used for an extended period of time. To disconnect the mains lead, pull it out by the plug. Never pull the cord itself.
- Should any solid object or liquid fall into the system, unplug the system and have it checked by qualified personnel before operating it any further.
- AC power cord (mains lead) must be changed only at the qualified service shop.
- When you connect the mains lead to the mains, even if the power is off, the system begins charging for remote and timer functions. Therefore the surface of this unit become warm, this is normal.

### On placement

- Make sure the system fan is on during use. Place the system in a location with adequate air circulation, and do not place anything on top of the system.
- Place the system in a location with adequate ventilation to prevent heat build up.
- 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
  - Subject to vibrations
  - Subject to direct sunlight.

### 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 or on the pinch roller and heads inside the tape deck. Should this occur, the system will not operate properly. Remove the CD or the tape and leave the system turned on for about an hour until the moisture evaporates.

### On transportation

- Make sure you remove a disc, and turn off the system. If you move the system with the disc inserted, you may be unable to remove the disc.
- Before you move the system, turn off the system and make sure all operations have finished.

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

### On the speaker system

This speaker system is magnetically shielded and can be used near TV sets. However, the picture on some TV sets may become magnetically distorted. In such a case, turn off the power of the TV set once, and after 15 to 30 minutes turn it on again.

**If there seems to be no improvement**, locate the speaker system further away from the TV set. Also, be sure not to place objects in which magnets are attached or used near the speaker system, such as audio racks, TV stands, and toys. These may cause magnetic distortion to the picture due to their interaction with the system.

### Notes on CDs

- Before playing, clean the CD with a cleaning cloth. Wipe the CD from the centre out.
- Do not use a CD with tape, seals, or paste on it as this may damage the player.
- Do not use solvents such as benzine, thinner, commercially available cleaners, or antistatic spray intended for vinyl LPs.
- Do not expose the CD to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.

### Cleaning the cabinet

Use a soft cloth slightly moistened with mild detergent solution.

continued

## Precautions (continued)

### Before placing a cassette in the tape deck

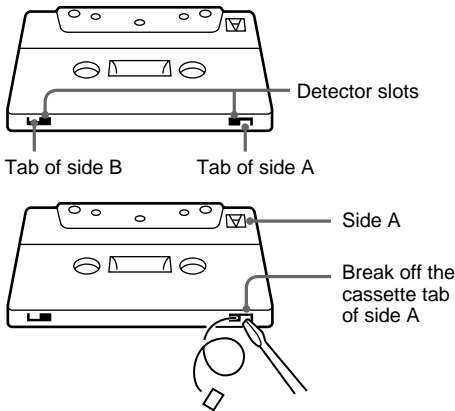
Take up any slack in the tape. Otherwise, the tape may get entangled in the parts of the tape deck and become damaged.

### When using a tape longer than 90 minutes

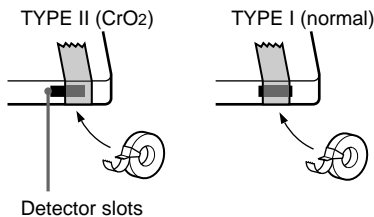
The tape is very elastic. Do not change the tape operations such as play, stop, and fast-winding frequently. The tape may get entangled in the tape deck.

### 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. However, be careful not to cover the detector slots which allow the tape deck to automatically detect the type of tape.



## Cleaning the tape heads

Clean the tape heads after every 10 hours of use.

When the tape heads become dirty;

- the sound is distorted
- there is a decrease in sound level
- the sound drops out
- the tape does not erase completely
- the tape does not record.

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

## Demagnetising the tape heads

Demagnetise the tape heads and the metal parts that has contact with the tape after every 20 to 30 hours of use with a separately sold demagnetising cassette. For details, refer to the instructions of the demagnetising cassette.

---

# Troubleshooting

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

First, check that the mains lead is connected firmly and that the speakers are connected correctly and firmly.

Should any problem persist, consult your nearest Sony dealer. When bringing the system in for repairs, be sure to bring in the entire system. This product is a system product, and the entire system is needed to determine the location requiring repair.

## General

---

### There is no sound.

- Turn VOLUME clockwise.
- Make sure the headphones are not connected.
- Check the speaker connections (see page 5).
- Connect the audio cord to AUX IN jacks.

---

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

- Connect the speaker cords properly (see page 5).
- Place the speakers as symmetrically as possible.
- Connect only one of the supplied speakers to each set of speaker terminals.
- Connect the supplied speakers.

---

### There is severe hum or noise.

- Move the system away from the source of noise.
- Connect the system to a different mains.
- Install a noise filter (commercially available) to the mains line.

---

### “- -: -” appears.

- Set the clock again (see page 8).

---

### The timer cannot be set.

- Set the clock again (see page 8).

---

### The timer does not function.

- Check the set contents and set the correct time (see pages 29 – 33).
- Connect the optional MD deck MDS-SP55 properly (see page 34).
- Refer to the operating instructions included with the connected component, and set the timer to the same time as the system’s timer.

---

### The remote does not function.


- Remove the obstacle.
- Move the remote closer to the system.
- Point the remote at the system’s sensor.
- Replace the batteries (R6/size AA).
- Locate the system away from the fluorescent light.

---

## CD Player

---

### The CD tray does not close.

- Place the CD correctly in the centre of the tray.
- Always close the tray by pressing  on the CD player. Trying to push the tray closed with your fingers may cause problems with the CD player.


---

### The CD does not eject.

- Consult your nearest Sony dealer.

---

### Play does not start.

- Open the CD tray and check whether a CD is loaded.
- Wipe the CD clean (see page 37).
- Replace the CD.
- Place the CD correctly in the centre of the tray.
- Place the CD in the tray with the label side up.
- Remove the CD and wipe away the moisture on the CD, then leave the system turned on for a few hours until the moisture evaporates.
- Press  on the CD player to start play.

*continued*

**The sound skips.**

- Wipe the CD clean (see page 37).
  - Replace the CD.
  - Try moving the system to a place without vibration (e.g., on top of a stable stand).
  - Try moving the speakers away from the system, or placing them on separate stands. When you listen to a track with bass sounds at high volume, the speaker vibration may cause the sound to skip.
- 

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

- Press PLAY MODE repeatedly until “PROGRAM” or “SHUFFLE” disappears to return to normal play.
- 

**“- OVER -” appears.**

- Keep pressing ⏮⏮⏮ or press ⏮⏮⏮ repeatedly on the CD player to return to the desired playing position.
- 

Tuner

---

**Severe hum or noise/stations cannot be received.**

- Set the proper band and frequency (see page 24).
  - Connect the aerial properly (see page 6).
  - Find a place and an orientation that provide good reception, then set up the aerial again. If you cannot obtain good reception, we recommend you connect a commercially available external aerial.
  - The supplied FM lead aerial receives signals along its entire length, so make sure you extend it fully.
  - Locate the aerials as far away from the speaker cords as possible.
  - Consult your nearest Sony dealer if the supplied AM aerial has come off the plastic stand.
  - Try turning off surrounding electrical equipments.
- 

---

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

- Press STEREO/MONO on the remote until “STEREO” appears in the display.
  - See “Severe hum or noise/stations cannot be received.”, and check the aerial condition.
- 

Tape Deck

---

**The cassette tray does not close.**

- Turn on the power again, and close the cassette tray.
- 

**The tape does not record.**

- No cassette is inserted. Insert a cassette.
  - The tab has been removed from the cassette. Cover the broken tab with adhesive tape (see page 38).
  - The tape has wound to the end.
- 

**The tape does not record or play, or there is a decrease in sound level.**

- The heads are dirty. Clean them.
  - There is slack in the tape. Take up any slack in the tape.
  - The record/playback heads are magnetised. Demagnetise them (see page 38).
- 

**The tape does not erase completely.**

- The record/playback heads are magnetised. Demagnetise them (see page 38).
- 

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

- The capstans or pinch rollers in the tape deck are dirty. Clean them using a cleaning cassette (see page 38).
- 

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

- The record/playback heads are magnetised. Demagnetise them (see page 38).
-



## Optional Components

---

### **There is no sound.**

- Refer to General item “There is no sound.” on page 39 and check the condition of the system.
  - Connect the component properly (see page 34) while checking:
    - if the cords/cables are connected properly.
    - if the cord/cable connectors are firmly inserted all the way.
  - Turn on the connected component.
  - Refer to the operating instructions included with the connected component and start playing.
- 

### **The sound is distorted.**

- Attenuate the distortion (see page 35).
- 

### **The sound from the component connected to the AUX IN jacks is not heard.**

- Turn FUNCTION until “AUX” appears.
  - Connect the audio cord securely.
- 

If the system still does not operate properly after performing the above measures, reset the system as follows:

- 1 Unplug the mains lead.
- 2 While holding down **I/⏻**, connect the mains lead to the mains.

The system is reset to the factory settings. All the settings you made such as the preset stations, clock, timer and CD disc titles are cleared. You should set them again.

---

## Messages

One of the following messages may appear or flash in the display during operation.

### CD

---

#### **Name Full**

There are already 50 disc titles stored in the system.

---

#### **- OVER -**

You have reached the end of the CD while keeping pressing **▶▶▷▷|** on the CD player during pause.

---

#### **Cannot Edit**

You tried to label a CD TEXT disc.

---

### TAPE

---

#### **Cannot SYNC**

- There is no tape in the tape deck, or the tab has been removed from the cassette.
  - The tabs and the direction setting do not match.
- 

#### **No TAB**

You cannot record the tape because the tab has been removed from the cassette.

---

#### **No Tape**

There is no tape in the tape deck.

---

# Specifications

## Tuner section (ST-SP55)

FM stereo, FM/AM superheterodyne tuner

### Input

AUX IN (phono jacks): voltage 250 mV, impedance 47 kilohms

### Output

AUX OUT (phono jacks): voltage 250 mV, impedance 1 kilohm

## FM tuner section

Tuning range 87.5 – 108.0 MHz  
(50 kHz step)

Aerial FM lead aerial  
Aerial terminals 300 ohms unbalanced  
Intermediate frequency 10.7 MHz

## AM tuner section

Tuning range 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)

Aerial AM loop aerial  
External aerial terminals  
Intermediate frequency 450 kHz

## Amplifier section (TA-SP55)

### European model:

DIN power output (Rated): 25 + 25 watts (8 ohms at 1 kHz, DIN, 230 V)

Continuous RMS power output (Reference): 30 + 30 watts (8 ohms at 1 kHz, 10% THD, 230 V)

Music power output (Reference): 75 + 75 watts

### Other models:

DIN power output (Rated): 25 + 25 watts (8 ohms at 1 kHz, DIN, 240 V)  
22 + 22 watts (8 ohms at 1 kHz, DIN, 220 V)

Continuous RMS power output (Reference): 30 + 30 watts (8 ohms at 1 kHz, 10% THD, 240 V)  
28 + 28 watts (8 ohms at 1 kHz, 10% THD, 220 V)

### Output

PHONES (stereo phono jack): accepts headphones of 8 ohms or more.

## CD player section (CDP-SP55)

System Compact disc and digital audio system  
Laser Semiconductor laser ( $\lambda=780$  nm)  
Emission duration: continuous  
Laser output Max. 44.6  $\mu$ 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.  
Frequency response 20 Hz – 20 kHz  
Output DIGITAL OPTICAL OUT: Optical

## Tape deck section (TC-SP55)

Recording system 4-track 2-channel stereo (DOLBY NR OFF)  
Frequency response 40 – 14,000 Hz ( $\pm 3$  dB), using Sony TYPE I cassettes  
40 – 15,000 Hz ( $\pm 3$  dB), using Sony TYPE II cassettes

## Speaker (SS-CSP55)

Speaker system 2-way, bass-reflex type  
Speaker units  
Woofer: 12 cm dia., glass-fiber cone type  
Tweeter: 2.5 cm dia., balanced drive type  
Nominal impedance 8 ohms

## General

### Power requirements

European model: 230 V AC, 50/60 Hz  
Other models: 110 – 120 V or 220 – 240 V  
AC, 50/60 Hz

Power consumption 70 watts

Dimensions (w/h/d) incl. projecting parts and controls

Tuner section: Approx. 202 × 75 × 291 mm  
Amplifier section: Approx. 202 × 101 × 306 mm  
CD player section: Approx. 202 × 75 × 290 mm  
Tape deck section: Approx. 202 × 101 × 283 mm  
Speaker: Approx. 170 × 275 × 230 mm

### Mass

Tuner section: Approx. 1.3 kg  
Amplifier section: Approx. 3.9 kg  
CD player section: Approx. 1.5 kg  
Tape deck section: Approx. 1.9 kg  
Speakers: Approx. 3.4 kg net per speaker  
Supplied accessories Remote (1)

R6 (size AA) batteries (2)

AM loop aerial (1)

FM lead aerial (1)

Speaker cords (2)

System cables (2)

Design and specifications are subject to change without notice.

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