

Mini Hi-Fi Component System

Operating Instructions



GameSync

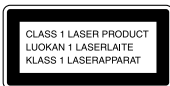
MHC-DX101

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.



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

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

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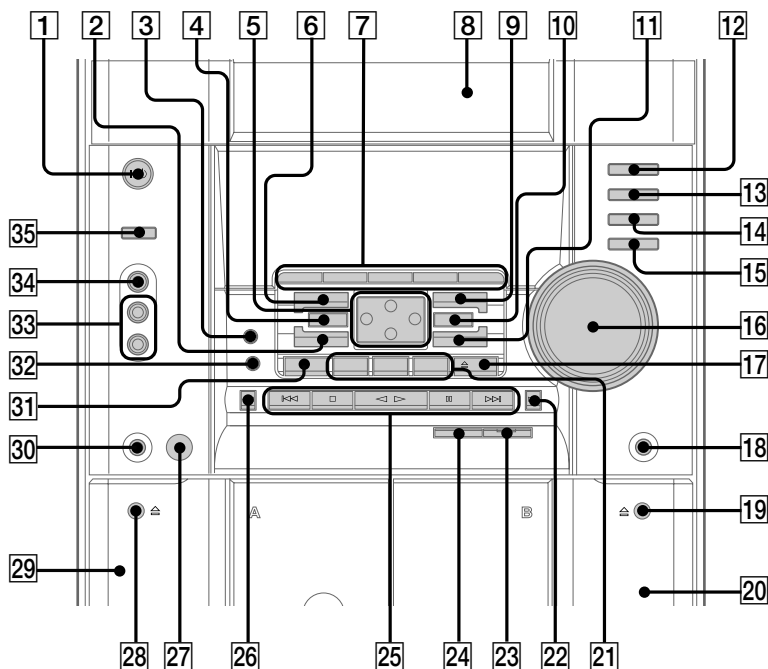
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The items are arranged in alphabetical order. Refer to the pages indicated in parentheses for details.

Main unit



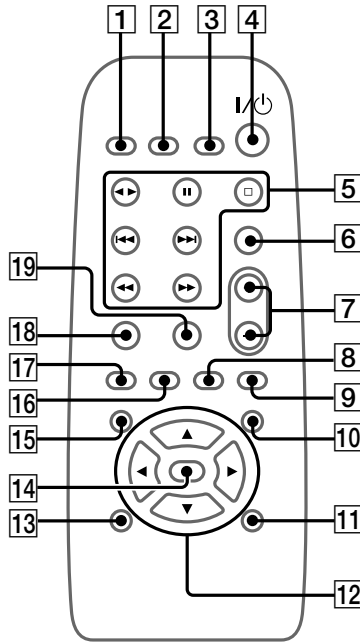
AUDIO jacks **33** (22)
 CD **12** (9 – 11, 14, 15)
 CD SYNC **24** (14, 15)
 Deck A **29** (13, 14)
 Deck B **20** (13 – 16)
 DIRECTION **7** (13 – 15, 19)
 DISC 1 – 3 **21** (9, 10)
 DISC SKIP EX-CHANGE **31**
 (9, 10)
 Disc tray **8** (9)
 DISPLAY **7** (11)
 EDIT **7** (15)
 EFFECT ON/OFF **4**
 (17, 19)
 ENTER **10** (8, 10 – 12,
 15 – 17, 20, 21)
 GAME **35** (18, 22)
 GAME EQ **2** (16, 17)
 GROOVE **3** (16)
 KARAOKE PON **32** (19)

MD (VIDEO) **15** (21, 22)
 MIC jack **30** (18)
 MIC LEVEL control **27** (18, 19)
 MOVIE EQ **9** (16, 17)
 MUSIC EQ **6** (16, 17)
 P FILE **11** (17)
 PHONES jack **18**
 PLAY MODE **7** (9, 10)
 REC PAUSE/START **23** (14)
 REPEAT **7** (10)
 SPECTRUM **7** (18)
 STEREO/MONO **7** (12)
 TAPE A/B **14** (13, 14)
 TUNER MEMORY **7** (11)
 TUNER/BAND **13** (11, 12)
 VIDEO jack **34** (22)
 VOLUME control **16**

BUTTON DESCRIPTIONS

- ▲▼/◀▶ **5**
- ▲ (deck A) **28**
- ▲ (deck B) **19**
- ▶▶ (fast forward) **22**
- ◀◀ (go back) **25**
- ▲ OPEN/CLOSE **17**
- I/O (power) **1**
- (stop) **25**
- ◀▶ (play) **25**
- || (pause) **25**
- ▶▶ (go forward) **25**
- ◀◀ (rewind) **26**

Remote Control



- CD **17** (9 – 11, 14, 15)
- CLEAR **6** (10)
- CLOCK/TIMER SELECT **2**
(16, 21)
- CLOCK/TIMER SET **3** (8, 15,
20)
- D.SKIP **19** (9, 10)
- EFFECT ON/OFF **11** (17, 19)
- ENTER **14** (8, 10 – 12, 15 – 17,
20, 21)
- GAME **18** (18, 22)

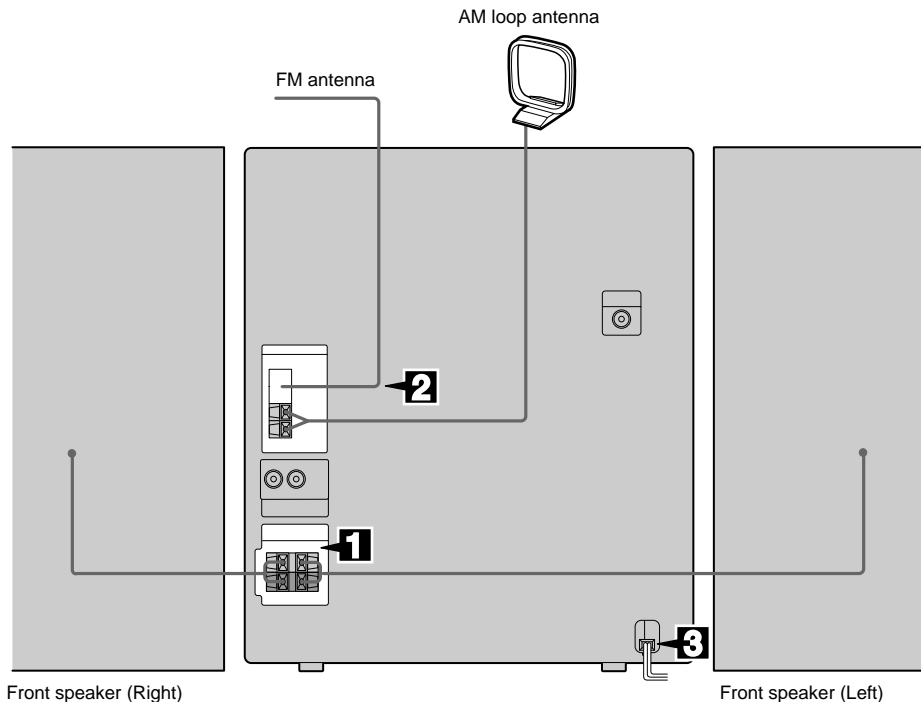
- MD (VIDEO) **9** (21, 22)
- P FILE **13** (17)
- PRESET EQ **15** (16)
- SLEEP **1** (20)
- SURROUND **10** (18)
- TAPE A/B **8** (13, 14)
- TUNER/BAND **16** (11, 12)
- VOL +/- **7**

BUTTON DESCRIPTIONS

- ▲▼◀▶ **12**
- ▶▶ (fast forward)/TUNING
+ **5**
- ◀◀ (go back)/PRESET
- **5**
- I/O (power) **4**
- (stop) **5**
- ▶▶ (play) **5**
- || (pause) **5**
- ▶▶ (go forward)/PRESET
+ **5**
- ◀◀ (rewind)/TUNING - **5**

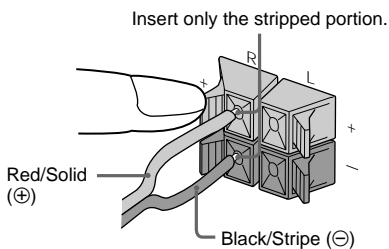
Hooking up the system

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



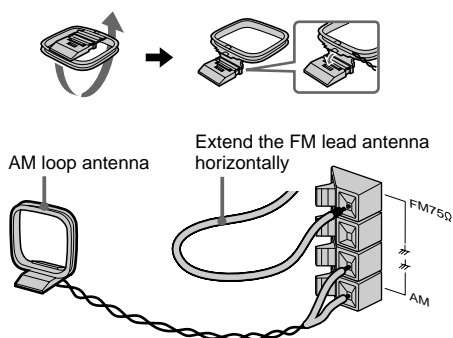
1 Connect the front speakers.

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



2 Connect the FM/AM antennas.

Set up the AM loop antenna, then connect it.

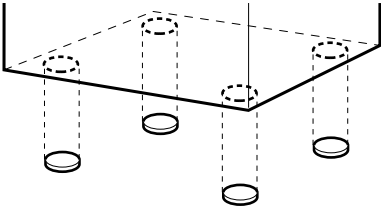


3 Connect the power cord to a wall outlet.

The demonstration appears in the display.
When you press I/⏻, the system turns on
and the demonstration automatically ends.

To connect optional components
See page 21.

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

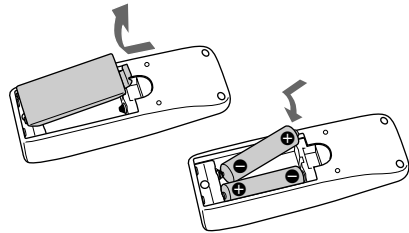
**Notes**

- Keep the speaker cords away from the antennas to prevent noise.
- Do not place the surround speakers on top of a TV. This may cause distortion of the colors in the TV screen.
- Be sure to connect both left and right surround speakers. Otherwise, the sound will not be heard.

When carrying this system
Perform the following procedure to protect the
CD mechanism.

- 1** Make sure that all discs are removed from the unit.
- 2** Hold down CD and then press I/⏻ until “STANDBY” appears.
When you release the buttons, “LOCK” appears.
- 3** Unplug the AC power cord.

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.

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 SET** on the remote.
Proceed to step 5 when "CLOCK" appears in the display.
- 3 Press **▲** or **▼** repeatedly to select "**SET CLOCK**".
- 4 Press **ENTER**.
- 5 Press **▲** or **▼** repeatedly to set the hour.
- 6 Press **▶**.
The minute indication flashes.
- 7 Press **▲** or **▼** repeatedly to set the minute.
- 8 Press **ENTER**.

Tip

If you made a mistake or want to change the time, start over from step 1.

Note

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

Saving the power in standby mode

Press DISPLAY repeatedly when the system is off. Each time you press the button, the system switches cyclically as follows:

Demonstration → Clock → Power Saving Mode

Tips

- I/⏻ indicator lights up even in the Power Saving Mode.
- The timer functions in the Power Saving Mode.

Note

You cannot set the time in the Power Saving Mode.

To cancel the Power Saving Mode

Press **DISPLAY** once to show the demonstration or twice to show the clock display.

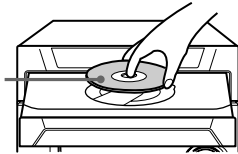
Loading a CD

1 Press **▲** OPEN/CLOSE.

The disc tray opens.

2 Place a CD with the label side up on the disc tray.

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



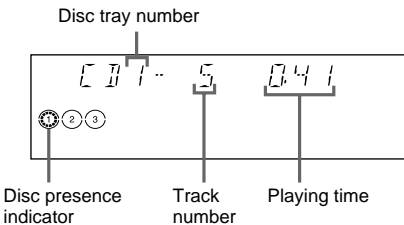
To insert additional discs, press DISC SKIP EX-CHANGE to rotate the disc tray.

3 Press **▲** OPEN/CLOSE to close the disc tray.

Playing a 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 repeatedly until the mode you want appears in the display.

Select	To play
CONTINUE ALL DISCS (Normal Play)	All CDs in the disc tray continuously.
CONTINUE 1DISC (Normal Play)	The CD you have selected in original order.
SHUFFLE ALL DISCS (Shuffle Play)	The tracks on all CDs in random order.
SHUFFLE 1DISC (Shuffle Play)	The tracks on the CD you have selected in random order.
PROGRAM (Program Play)	The tracks on all CDs in the order you want them to be played (see "Programing CD tracks" on page 10).

3 Press **◀▶**.

Other Operations

To	Do this
Stop play	Press ■ .
Pause	Press ⏸ . Press again to resume play.
Select a track	During play or pause, 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.
Select a CD in stop mode	Press DISC 1 – 3 or DISC SKIP EX-CHANGE (or D.SKIP on the remote).

continued

Playing a CD (continued)

To	Do this
Switch to CD function from another source	Press DISC 1 – 3 (Automatic Source Selection). However, if a CD is used in a program, play does not start even if you press CD 1 – 3.
Remove a CD	Press ▲ OPEN/CLOSE.
Exchange other CDs while playing	Press DISC SKIP EX-CHANGE (or D.SKIP on the remote).
Play repeatedly (Repeat Play)	Press REPEAT during play until “REPEAT ALL” or “REPEAT 1” appears. REPEAT ALL*: For all the tracks on the CD up to five times. REPEAT 1**: For a single track only. To cancel playing repeatedly, press REPEAT until “REPEAT ALL” or “REPEAT 1” disappears.

* You cannot select “REPEAT ALL” and “SHUFFLE ALL DISCS” at the same time.

** When you select “REPEAT 1”, that track is repeated endlessly until REPEAT 1 is canceled.

Note

The play mode cannot be changed while playing a disc. To change the play mode, press **■** first to stop play.

Programing CD tracks

— Program Play

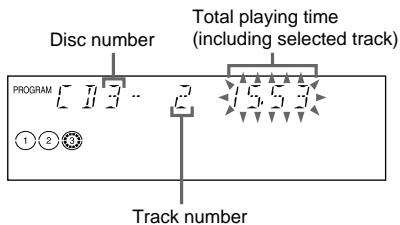
You can make a program of up to 32 tracks from all the CDs in the order you want to play them.

- 1 Press CD, then place a CD.
- 2 Press PLAY MODE repeatedly until “PROGRAM” appears in the display.

- 3 Press one of DISC 1 – 3 to select a CD.

To program all the tracks on a CD at once, proceed to step 5 with “AL” displayed.

- 4 Press **◀▶** or **▶▶** until the desired track appears in the display.



- 5 Press ENTER.

The track is programmed. The program step number appears, followed by the total playing time.

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

Skip step 3 to select tracks from the same disc.

- 7 Press **◀▶**.

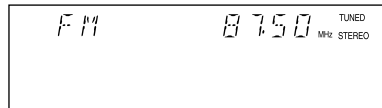
To	Do this
Cancel Program Play	Press PLAY MODE repeatedly until “PROGRAM” and “SHUFFLE” disappear.
Clear a track from the end	Press CLEAR on the remote in stop mode.
Add a track to the program in stop mode	Do steps 3 to 5.
Clear the entire program	Press ■ once in stop mode or twice during play.

Presetting radio stations

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

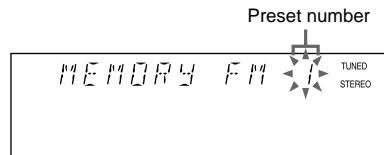
- 1 Press **TUNER/BAND** repeatedly to select **"FM"** or **"AM"**.
- 2 Press and hold **◀◀** or **▶▶** (or **TUNING +/-** on the remote) until the frequency indication starts to change, then release it.

Scanning stops automatically when the system tunes in a station. **"TUNED"** and **"STEREO"** (for a stereo program) appear.



- 3 Press **TUNER MEMORY**.

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



- 4 Press **ENTER**.

"COMPLETE" appears.
The station is stored.

- 5 Repeat steps 1 to 4 to store other stations.

To tune in a station with a weak signal

Press **◀◀** or **▶▶** (or **TUNING +/-** on the remote) 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 **◀◀** or **▶▶** repeatedly to select the preset number you want to store the other station.

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

Tips

- The program you made remains after Program Play finishes. To play the same program again, press **CD**, then press **◀▶**.
- **"--.--"** appears when the total CD program time exceeds 100 minutes, or when you select a CD track whose number is 21 or over.

Using the CD display

You can check the remaining time of the current track or the entire CD.

Press **DISPLAY** repeatedly.

During normal play

Playing time of the current track → Remaining time of the current track → Remaining time of current CD (1DISC mode) or **"--.--"** display (ALL DISCS mode) → Clock display (for eight seconds) → Effect status

In stop mode

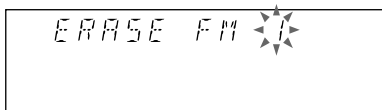
During Program Play mode when there is a program:

The last track number of the program and the total playing time → Total number of programmed tracks (for eight seconds) → Clock display (for eight seconds) → Effect status

Presetting radio stations (continued)

To erase a preset station

- 1 Press and hold TUNER MEMORY until a preset number appears in the display.



- 2 Press ◀◀ or ▶▶ repeatedly to select the preset number you want to erase.

Select “ALL ERASE” when you want to erase all the preset stations.

- 3 Press ENTER.
“COMPLETE” appears.

When you erase a preset number, the preset number decreases by one and all preset numbers following the erased one are renumbered.

To change the AM tuning interval

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 ENTER, 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.

Tip

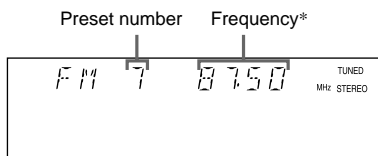
The preset stations are retained for half a day even if you unplug the power cord or if a power failure occurs.

Listening to the radio

— Preset Tuning

Preset radio stations in the tuner’s memory first (see “Presetting radio stations” on page 11).

- 1 Press TUNER/BAND repeatedly to select “FM” or “AM”.
- 2 Press ◀◀ or ▶▶ (or press PRESET +/- on the remote) repeatedly to tune in the desired preset station.



* When only one station is preset, “ONE PRESET” appears in the display.

To listen to non-preset radio stations

Use manual or automatic tuning in step 2.

For manual tuning, press ◀◀ or ▶▶ (or TUNING +/- on the remote) repeatedly. For automatic tuning, press and hold ◀◀ or ▶▶ (or TUNING +/- on the remote).

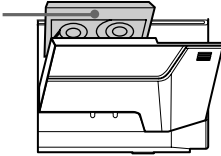
Tips

- When an FM stereo program has static noise, press STEREO/MONO repeatedly until “MONO” appears. There will be no stereo effect, but the reception will improve.
- To improve broadcast reception, adjust the supplied antennas.

Loading a tape

- 1 Press **TAPE A/B** repeatedly to select deck A or B.
- 2 Press **▲**.
- 3 Insert a recorded tape in deck A or B with the side you want to play/record facing forward.

With the side you want to play/record facing forward.



Playing a tape

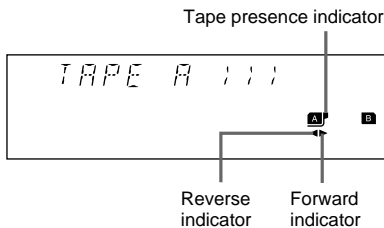
You can use TYPE I (normal) tape.

- 1 Load a tape.
- 2 Press **DIRECTION** repeatedly to select **→** to play one side. Select **↔** to play both sides.

To play both decks in succession, select **RELAY** (Relay Play)*.

- 3 Press **◀▶**.

Press **◀▶** again to play the reverse side. The tape starts playing.



* Relay Play always follows this cyclic sequence up to five times, then stops:

- Deck A (front side) → Deck A (reverse side)
- Deck B (front side) → Deck B (reverse side)

To	Do this
Stop play	Press ■ .
Pause	Press ⏸ . Press again to resume play.
Fast-forward or rewind	Press ⏩ or ⏪ .
Remove the cassette	Press ▲ .

Searching for the beginning of the current or the next track (AMS)*

To go forward

Press **▶▶** during playback when **▶** lights. "TAPE A (or TAPE B) >>> +1" appears.

Press **◀◀** during playback when **◀** lights. "TAPE A (or TAPE B) <<< +1" appears.

To go back

Press **◀◀** during playback when **▶** lights. "TAPE A (or TAPE B) <<< -1" appears.

Press **▶▶** during playback when **◀** lights. "TAPE A (or TAPE B) >>> -1" appears.

* AMS (Automatic Music Sensor)

Tip

When a tape is inserted, corresponding forward/reverse indicators light.

Note

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

- When the unrecorded space between songs is less than 4 seconds long.
- When the system is placed near a television.

Recording to a tape

— CD Synchro Recording/Recording Manually/Program Edit

You can record from a CD, tape or radio. You can use TYPE I (normal) tapes. The recording level is adjusted automatically.

Steps	Recording from a CD (CD Synchro Recording)	Recording from a CD/tape/radio manually
1	Load a recordable tape into deck B.	
2	Press CD .	Press CD , TAPE A/B or TUNER/BAND .
3	Load the CD you want to record.	Load the CD/tape, or tune in the station you want to record.
4	Press CD SYNC . Deck B stands by for recording. REC PAUSE/START button flashes.	Press REC PAUSE/START .
5	Press DIRECTION repeatedly to select \rightleftarrows to record on one side. Select \leftrightarrow (or RELAY) to record on both sides.	
6	Press REC PAUSE/START . Recording starts.	
7		Press $\blacktriangleleft\blacktriangleright$ to start playing the source to be recorded.

To stop recording

Press **■**.

Note

You cannot listen to other sources while recording.

Tips

- If you want to record from the reverse side, press **TAPE A/B** to select deck B after step 1. Press $\blacktriangleleft\blacktriangleright$ to start playback of the reverse side, then press **■** when you want to start recording. The **TAPE B** reverse side indicator lights up.
- 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.
- For recording from the radio:
If noise is heard while recording from the radio, move the respective antenna to reduce the noise.

continued

Recording to a tape (continued)

Recording a CD by specifying track order

— Program Edit

When programing, make sure the playing times for each side do not exceed the length of one side of the tape.

- 1 **Load a CD and load a recordable tape into deck B.**
- 2 **Press CD.**
- 3 **Press PLAY MODE repeatedly until "PROGRAM" appears in the display.**
- 4 **Press one of DISC 1 – 3 to select a CD.**
- 5 **Press ◀ or ▶ until the desired track appears in the display.**
- 6 **Press ENTER.**

The track is programed. The program step number appears, followed by the total playing time.
- 7 **To program additional tracks, repeat steps 4 to 6.**

Skip step 4 to select tracks from the same disc.
- 8 **Press II to pause at the end of side A.**
- 9 **Repeat steps 5 and 6 for the same disc or 4 to 6 for tracks from another disc to program the remaining tracks to be recorded on side B.**
- 10 **Press CD SYNC.**

Deck B stands by to record in the direction of the indication on ◀▶ (the right indication lights to record on the forward side and the left indicator lights to record on the reverse side). The CD player stands by for playback.
- 11 **Press DIRECTION repeatedly to select ⇌ to record on one side. Select ⇔ (or RELAY) to record on both sides.**
- 12 **Press REC PAUSE.**

Recording starts.

Tip

To check the required tape length for recording a CD, press EDIT until "EDIT" flashes after you have loaded a CD and pressed CD. The required tape length for the currently selected CD appears, followed by the total playing time for side A and side B respectively (**Tape Select Edit**).

Note

You cannot use Tape Select Edit for discs containing over 20 tracks.

Timer-recording radio programs

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

To timer-record, you must first preset the radio station (see "Presetting radio stations" on page 11) and set the clock (see "Setting the time" on page 8).

- 1 **Tune in the preset radio station (see "Listening to the radio" on page 12).**
- 2 **Press CLOCK/TIMER SET on the remote.**

"SET DAILY 1" appears.
- 3 **Press ▲ or ▼ repeatedly to select "SET REC", then press ENTER.**

"ON" appears and the hour indication flashes in the display.
- 4 **Set the time to start recording.**

Press ▲ or ▼ repeatedly to set the hour, then press ▶.

The minute indication starts flashing.

Press ▲ or ▼ repeatedly to set the minute, then press ENTER.

Adjusting the sound

You can reinforce the bass and create a more powerful sound.

The GROOVE setting is ideal for music sources, and the V-GROOVE setting is ideal for video sources (movies, VCDs).

Press GROOVE.

Every time you press the button, the display changes cyclically as follows:

GROOVE ON* → V-GROOVE ON*
→ GROOVE OFF

* The volume switches to power mode, the equalizer curve changes, and the “GROOVE” indicator lights up.

Selecting the sound effect

Selecting the effect from the music menu

Press MUSIC EQ*, MOVIE EQ* or GAME EQ* (or PRESET EQ on the remote) repeatedly to select the preset you desire.**

The preset name appears in the display. See the chart “Sound effect options”.

* You can select from a variety of effects for each equalizer.

** You can select all of the effects in order.

continued

5 Repeat step 4 to set the time to stop recording.

The start time appears, followed by the stop time, the preset radio station to be recorded (e.g., “TUNER FM 5”), then the original display appears.

6 Load a recordable tape into deck B.

7 Press I/⏻ to turn off the system.

When the recording starts, the volume level is set to the minimum.

To	Do this
Check the setting	Press CLOCK/TIMER SELECT on the remote and press ▲ or ▼ repeatedly to select “SEL REC”. Then, press ENTER. To change the setting, start over from step 1.
Cancel the timer	Press CLOCK/TIMER SELECT on the remote and press ▲ or ▼ repeatedly to select “TIMER OFF”, then press ENTER.

Notes

- If the system is on at the preset time, the recording will not be made.
- When you used the Sleep Timer, Daily Timer and Timer recording will not turn on the system until the Sleep Timer turns it off.

Selecting the sound effect (continued)

To cancel the effect

Press EFFECT ON/OFF repeatedly until “EFFECT OFF” appears in the display.

Sound effect options

“SURR” appears if you select an effect with surround effects.

MUSIC EQ

Effect

ROCK	Standard music sources
POP	
JAZZ	
DANCE	
SOUL	
ORIENTAL	

MOVIE EQ

Effect

ACTION	Soundtracks and special listening situations
DRAMA	
MUSICAL	

GAME EQ

Effect

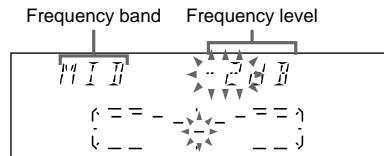
ADVENTURE	PlayStation 1, 2 and other video game music sources
ARCADE	
RACING	

Adjusting the graphic equalizer and storing

You can adjust the sound by raising or lowering the levels of specific frequency ranges, then store up to three PERSONAL FILES (P FILE) in the memory.

Before operation, first select the audio emphasis you want for your basic sound.

- 1 Press ◀ or ▶ repeatedly to select a frequency band, then press ▲ or ▼ to adjust the level.



- 2 Press and hold P FILE.
A PERSONAL FILE number appears in the display.
- 3 Press P FILE repeatedly to select P FILE 1 – 3 where you want to store the equalizer setting.

- 4 Press ENTER.

“COMPLETE” appears.

This setting is automatically stored as the PERSONAL FILE you selected in step 3.

To	Press
Call up a PERSONAL FILE	P FILE repeatedly to select the desired PERSONAL FILE number.
Cancel a PERSONAL FILE	EFFECT ON/OFF repeatedly until “EFFECT OFF” appears in the display.

Selecting the surround effect

Press **SURROUND** on the remote repeatedly to turn the surround effect on or off.

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

SURR ON (on) ↔ SURR OFF (off)

Note

When you choose other sound effect, the surround effect will be canceled.

Enhancing video game sound

— *Game Sync*

You need to connect a video game machine (see “Connecting a video game machine” on page 22).

Press **GAME**.

- In the standby mode, the system automatically turns on.
- The GAME EQ (previously selected effect) is automatically selected.
- These operations cannot be performed in the Power Saving Mode.

Changing the spectrum analyzer display

Press **SPECTRUM**.

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

PATTERN 1 → PATTERN 2 → PATTERN 3 → PATTERN OFF (No display)

Singing along: Karaoke

You can sing along by turning down the singer’s voice. You need to connect an optional microphone.

- 1 Turn **MIC LEVEL** to **MIN** to turn down the microphone control level.
- 2 Connect an optional microphone to **MIC**.

continued

Singing along: Karaoke (continued)

3 Press KARAOKE PON repeatedly to obtain the karaoke effect you desire.

Every time you press the button, the display changes cyclically as follows:

KARAOKE PON ↔ Effect status*

* KARAOKE PON is canceled.

4 Start playing the music.

5 Adjust the microphone volume by turning MIC LEVEL.

After you have finished

Turn MIC LEVEL to MIN and disconnect the microphone from MIC, then press KARAOKE PON repeatedly until “KARAOKE PON” disappears.

Notes

- With some songs, vocals may not be canceled when you select “KARAOKE PON”.
- During KARAOKE PON, equalizer and surround settings cannot be changed.
- If you press MUSIC EQ, MOVIE EQ, GAME EQ or EFFECT ON/OFF (or PRESET EQ on the remote) or recall a sound effect, the karaoke mode is canceled.
- The instrumental sound may be reduced as well as the singer’s voice when the sound is recorded in monaural.
- The singer’s voice may not be reduced when:
 - only a few instruments are playing.
 - a duet is being played.
 - the source has strong echoes or chorus.
 - the singer’s voice deviates from the center.
 - the voice on the source is singing in high soprano or tenor.

Mixing and recording sounds

1 Do the procedure for “Singing along” (steps 1 through 5). Then, load a recordable tape in deck B.

2 Press the function button of the source you want to record (e.g., CD).

When you want to record from TAPE A, press TAPE A/B repeatedly until TAPE A is selected.

3 Press REC PAUSE/START.

Deck B stands by for recording. The indicator on REC PAUSE/START flashes.

4 Press DIRECTION repeatedly to select to record on one side. Select (or RELAY) to record on both sides.

5 Press REC PAUSE/START.

Recording starts.

6 Press to start playing the source to be recorded.

Start singing along with the music.

To stop recording

Press .

Tips

- If acoustic feedback (howling) occurs, move the microphone away from the speakers or change the direction of the microphone.
- If you want to record your voice through the microphone only, you can do so by selecting the CD function and not playing a CD.
- When high level sound signals are input, the system automatically adjusts the recording level to prevent distortion of the recorded sound signal (Auto Level Control function).

Falling asleep to music

— Sleep Timer

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

Press SLEEP on the remote.

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

AUTO* → 90 → 80 → 70 → ... → 10 → OFF

* The system turns off when the current CD or tape finishes playback (for up to 100 minutes).

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. Make sure you have set the clock (see "Setting the time" on page 8).

1 Prepare the music source you want to play.

- CD: Load a CD. To start from a specific track, make a program (see "Programing CD tracks" on page 10).
- Tape: Load a tape with the side you want to play facing forward.
- Radio: Tune in the preset station you want (see "Listening to the radio" on page 12).

2 Adjust the volume.

3 Press CLOCK/TIMER SET on the remote.

"SET DAILY 1" appears.

4 Press ▲ or ▼ repeatedly to select "DAILY 1 (or 2)", then press ENTER.

"ON" appears and the hour indication flashes.

5 Set the time to start playing.

Press ▲ or ▼ repeatedly to set the hour, then press ►.

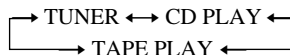
The minute indication flashes.

Press ▲ or ▼ repeatedly to set the minute, then press ENTER.

6 Repeat step 5 to set the time to stop playback.

7 Press ▲ or ▼ repeatedly until the music source you want appears.

The indication changes as follows:



continued

Waking up to music (continued)

8 Press ENTER.

The type of timer (DAILY 1 or DAILY 2), followed by the start time, stop time, and the music source, appear, then the original display appears.

9 Press I/⏻ to turn off the system.

To	Do this
Check the setting	Press CLOCK/TIMER SELECT on the remote and press ▲ or ▼ repeatedly to select the respective mode (DAILY 1 or DAILY 2), then press ENTER.
Change the setting	Start over from step 1.
Cancel the timer	Press CLOCK/TIMER SELECT on the remote and press ▲ or ▼ repeatedly to select "TIMER OFF", then press ENTER.

Tip

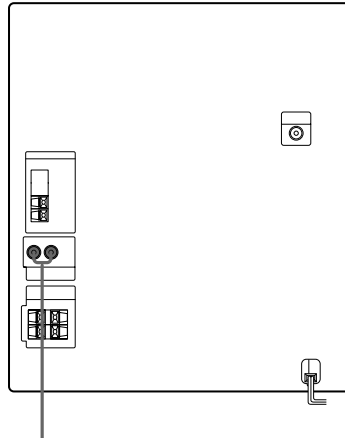
The system turns on 15 seconds before the preset time.

Notes

- You cannot activate DAILY 1 and DAILY 2 Timer at the same time.
- When you use the Sleep Timer, Daily Timer will not turn on the system until the Sleep Timer turns it off.
- You cannot activate Daily Timer and Timer-recording at the same time.

Hooking up the optional A/V components

You can connect your MD deck or VCR to this system.



To the audio output of the MD deck or VCR

To	Do this
Listen to the connected MD deck	Press MD (VIDEO).
Listen to the connected VCR	Hold down MD (VIDEO) and press I/⏻. This switches the "MD" function to "VIDEO". Once you enable the "VIDEO" function, just press MD (VIDEO).

Notes

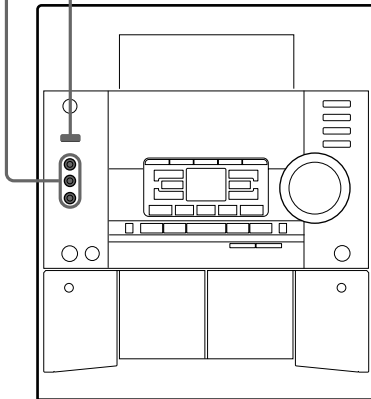
- If you cannot select “MD” when you press MD (VIDEO), press I/⏻ while holding down MD (VIDEO) when the system is on. “VIDEO” will be switched to “MD”. To return to “VIDEO”, do the same procedure.
- Make sure to match the color of the plugs and the connectors. To listen to the sound of the connected MD deck, press MD (VIDEO).
- To return to “MD”, press I/⏻ while holding down MD (VIDEO) again.
- When you connect a VIDEO CD deck, set to “MD”.

Connecting a video game machine

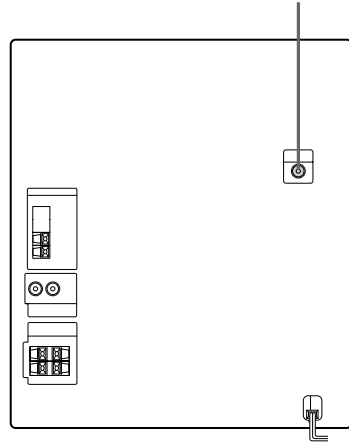
Connect the video output of the video game machine to the VIDEO jack, and the audio output to the AUDIO jacks on the front panel of the system. Connect the VIDEO OUT jack on the rear panel of the system to the video input of a TV using the optional video cable.

To listen to the sound of the connected video game machine, press GAME.

To the video output of the video game machine
GAME



To the video input of a TV



Notes

- The video game machine image may appear on the TV screen even if the system is turned off.
- See “Selecting the sound effect” on page 16 for video game sound effects.
- If you press GAME while the system is off, the system turns on, the function switches to GAME, and the equalizer also switches to the GAME EQ (previously selected effect).
- If you press GAME while the system is on, the function switches to GAME and the equalizer automatically switches to the GAME EQ in the same manner.

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

Note on CD-R playback

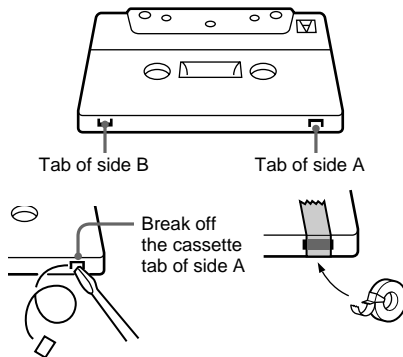
Discs recorded on CD-R drives may not be played back because of scratches, dirt, recording condition or the drive's characteristics. Besides, the discs, which are not yet finalized at the end of recording, cannot be played back.

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.



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.

Cleaning the tape heads

Clean the tape heads after every 10 hours of use. 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.

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 display starts flashing as soon as you plug in the power cord even though you haven't turned on the system (see step 3 of "Hooking up the system" on page 7).

- Press DISPLAY twice when the system is turned off. The demonstration disappears.

The clock setting/timer setting is canceled.

- The power cord is disconnected or a power failure occurs.

Redo the following:

— "Setting the time" on page 8

If you have set the timer, also redo "Waking up to music" on page 20 and "Timer-recording radio programs" on page 15.

There is no sound.

- Turn VOLUME clockwise.
- The headphones are connected.
- Insert only the stripped portion of the speaker cord into the SPEAKER jack. Inserting the vinyl portion of the speaker cord will obstruct the speaker connections.
- There is no audio output during timer recording.

The radio presetting is canceled.

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

Redo the following:

— "Presetting radio stations" on page 11.

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 sound from the connected source is distorted.

- If "VIDEO" appears in the display when you press MD (VIDEO), switch the display to "MD" (see "Hooking up the optional A/V components" on page 21).

"12:00 AM" flashes in the display.

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

The timer does not function.

- Set the clock correctly.

DAILY 1, DAILY 2, and REC do not appear when you press CLOCK/TIMER SET.

- Set the timer correctly.
- Set the clock.

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.

There is acoustic feedback.

- Decrease the volume level.
- Move the microphone away from the speakers or change the direction of the microphone.

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.

"PROTECT" and "PUSH POWER" appear alternately.

- A strong signal was input. Press I/⏻ to turn off the system, leave the system turned off for a while, then press I/⏻ again to turn on the system. If "PROTECT" and "PUSH POWER" appear alternately even after the system is turned on again, press I/⏻ to turn off the system and check the speaker cord.

continued

Troubleshooting (continued)

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 – jacks are connected correctly.

CD Player

The CD tray does not close.

- The CD is not placed properly.

The CD will not play.

- The CD is not lying flat in the disc tray.
- The CD is dirty.
- The CD is inserted label side down.
- There is moisture on the CD.

Play does not start from the first track.

- The player is in program or shuffle mode. Press PLAY MODE repeatedly until "PROGRAM" or "SHUFFLE" disappears.

Tape Deck

The tape does not record.

- No tape in the cassette holder.
- The tab has been removed from the cassette (see "To save a tape permanently" on page 23).
- 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 (see "Cleaning the tape heads" on page 23).
- The record/playback heads are magnetized (see "Demagnetizing the tape heads" on page 23).

The tape does not erase completely.

- The record/playback heads are magnetized (see "Demagnetizing the tape heads" on page 23).

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

- The capstans or pinch rollers are dirty (see "Cleaning the tape heads" on page 23).

Noise increases or the high frequencies are erased.

- The record/playback heads are magnetized (see "Demagnetizing the tape heads" on page 23).

Tuner

There is severe hum or noise ("TUNED" or "STEREO" flashes in the display).

- Adjust the antenna.
- The signal strength is too weak. Connect the external antenna.

A stereo FM program cannot be received in stereo.

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

If other troubles not described above occur, reset the system as follows:

- 1 Unplug the power cord.
- 2 Plug the power cord back in.
- 3 Press **■**, ENTER, and I/⏻ at the same time.
- 4 Press I/⏻ to turn on the system.

The system is reset to the factory settings. All the settings you made are cleared.

Messages

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

NO DISC

- There is no CD on the disc tray.

OVER

- You have reached the end of the CD.

Specifications

Amplifier section

The following measured at AC 220 V 50/60 Hz
 DIN power output (rated) 100 + 100 watts
 (6 ohms at 1 kHz, DIN)
 Continuous RMS power output (reference)
 120 + 120 watts (6 ohms
 at 1 kHz, 10% THD)

Inputs

MD/VIDEO (AUDIO) IN (phono jacks):
 voltage 450/250 mV,
 impedance 47 kilohms

GAME (AUDIO) IN (phono jack):
 voltage 450 mV,
 impedance 47 kilohms
 sensitivity 1 mV,
 impedance 10 kilohms

MIC (mini jack):

Outputs

PHONES (stereo mini jack):
 accepts headphones of
 8 ohms or more
 SPEAKER:
 accepts impedance of 6 to
 16 ohms

CD player section

System Compact disc and digital
 audio system
 Laser Semiconductor laser
 ($\lambda=780$ nm)
 Emission duration:
 continuous
 Laser output Max. 44.6 μ 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 2 Hz – 20 kHz (± 0.5 dB)
 Wavelength 780 – 790 nm
 Signal-to-noise ratio More than 90 dB
 Dynamic range More than 90 dB

Tape deck section

Recording system 4-track 2-channel stereo
 Frequency response 40 – 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 terminals 75 ohm unbalanced
 Intermediate frequency 10.7 MHz

AM tuner section

Tuning range 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 terminals External antenna terminal
 Intermediate frequency 450 kHz

Speaker

Speaker system 3-way, 3-unit,
 bass-reflex type
 Speaker units
 Sub Woofer: 13 cm, cone type
 Woofer: 13 cm, cone type
 Tweeter: 5 cm, cone type
 Nominal impedance 6 ohms
 Dimensions (w/h/d) Approx. 215 \times 325 \times 277 mm
 Mass Approx. 4.3 kg net per
 speaker

General

Power requirements 220V AC, 50/60 Hz
 Power consumption 175 watts
 Dimensions (w/h/d) Approx. 280 \times 325 \times 421 mm
 Mass Approx. 10 kg
 Supplied accessories: AM loop antenna (1)
 Remote Commander (1)
 Batteries (2)
 FM lead antenna (1)
 Front speaker pads (8)

Design and specifications are subject to change
 without notice.

