System Component
SC-HD501
SC-HD301

Operating Instructions
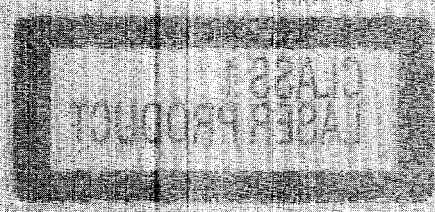

The illustrations show SC-HD501 for areas except Australia and N.Z.

COMPACT
disc
DIGITAL AUDIO
TEXT

EB EP GN

Dear customer

Thank you for purchasing this system.
For optimum performance and safety, please read these instructions carefully.

These operating instructions are applicable to the following systems.
These operating instructions, however, fundamentally explain the operation of system SC-HD501.

| System	SC-HD501	SC-HD301
Amplifier	SE-HD501	SE-HD301
Tuner	ST-HD501	ST-HD301
CD player	SL-HD501	SL-HD301
Cassette deck	RS-HD501	RS-HD301
Speakers	SB-HD501	SB-HD301

CAUTION!
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

CAUTION!
DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT IN CABINET OR IN ANOTHER CONFINED SPACE IN ORDER TO KEEP WELL VENTILATED CONDITION. ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION CONDITION TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING.
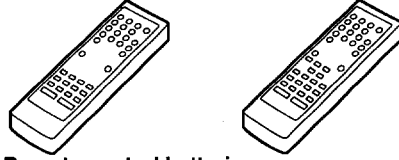
(Back of product)

CLASS 1 LASER PRODUCT
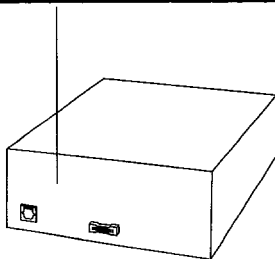
CD player

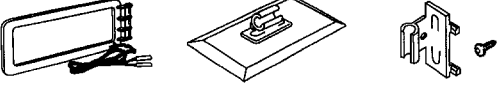|		
DANGER	INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.	(Inside of product)
ADVARSEL	USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.	(Indersiden at apparatet)
VARO!	AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTÖNTÄ LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.	(Tuotteen sisällä)
VARNING	OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.	(Apparatens insida)
ADVARSEL	USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.	(Produktets innside)
VORSICHT	UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.	(Im Inneren des Gerätes)

Supplied accessories

Please check and identify the supplied accessories.

☑ AC power supply cord . . . . 1 pc.
For United Kingdom   For Australia and N.Z.
(VJA0733)   (RJA0035-K)

For others
(RJA0019-2K)

☐ Remote control transmitter . . . . 1 pc.
For Australia and N.Z.   For others
(RAK-HDA08WH)   (RAK-HDA07WH)

☐ Remote control batteries . . . . 2 pc.
[R6/LR6 (AA, UM-3)]

☐ FM indoor antenna . . . . 1 pc.
For Australia and N.Z.   For others
(RSA0006)   (RSA0007)

☐ AM loop antenna set (RSA0021)
● AM loop antenna . . . . 1 pc.
● Antenna holder with stand . . . . 1 pc.
● Antenna holder without stand . . . . 1 pc.
● Screw . . . . 1 pc.

☐ Speaker cords (REE0499) . . . . 2 pc.
Speaker cords (REE0853) `SC-HD501 only` . . . . 2 pc.

☐ Antenna plug adaptor (SJP9009) . . . . 1 pc.
(United Kingdom only)

Use numbers indicated in parentheses when asking for replacement parts.

Placement

Avoid placing the unit in areas of:
● direct sunlight
● high temperature
● high humidity
● excessive vibration
● uneven surfaces (Place the unit on a flat level surface.)
Such conditions might damage the cabinet and/or other component parts and thereby shorten the unit's service life.
To protect the unit against sound distortion and acoustical effects, please place the unit at least 15 cm away from wall surfaces etc.

Stacking

Never place heavy items on top of the unit or the AC power cord.

Voltage

● It is very dangerous to use an AC power source of high voltage such as for an air conditioner.
A fire might be caused by such a connection.
● A DC power source can not be used.
Be sure to check the power source carefully, especially if on a ship or other place where DC is used.

Power cord protection

● Avoid cuts, scratches or poor connection of the AC power cord, as this may result in fire or electric shock.
Excessive bending, pulling or slicing of the cord should also be avoided.
● Do not pull on the cord when you are disconnecting the power, as this could cause an electric shock. Grasp the plug firmly when you disconnect the power supply.
● Never touch the plug with wet hands or a serious electric shock could result.

Foreign materials

● Ensure that no foreign objects, such as needles, coins, screwdrivers etc., accidentally fall into the unit.
Otherwise, a serious electric shock or malfunction could occur.
● Be extremely careful about spilling water or liquid on/into the unit, as a fire or electric shock could occur.
(Disconnect the power plug and contact your dealer immediately if this occurs.)
● Avoid spraying insecticides onto the unit as they contain flammable gases which can be ignited.
● Insecticides, alcohol, paint thinner and similar chemicals should never be used to clean the unit as they can cause flaking or cloudiness to the cabinet finish.

Service

● Never attempt to repair, disassemble or reconstruct the unit if there seems to be a problem.
A serious electric shock could result if you ignore this precautionary measure.
● If a problem occurs during operation (the sound is interrupted, indicators fail to light up, smoke is detected, etc.) contact your dealer or Authorized Service Center immediately.
● Disconnect the power supply if the unit will not be used for a long time. Otherwise the operation life could be shortened.

(For United Kingdom)

("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ◈ or the BSI mark ♡ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral, Brown: Live.
As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.
The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use
Remove the connector cover.

How to replace the fuse
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

Figure B — Fuse cover
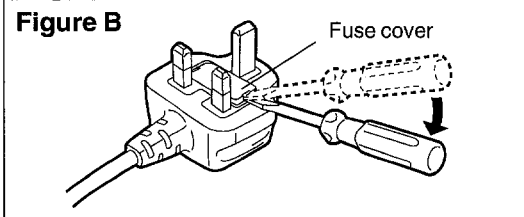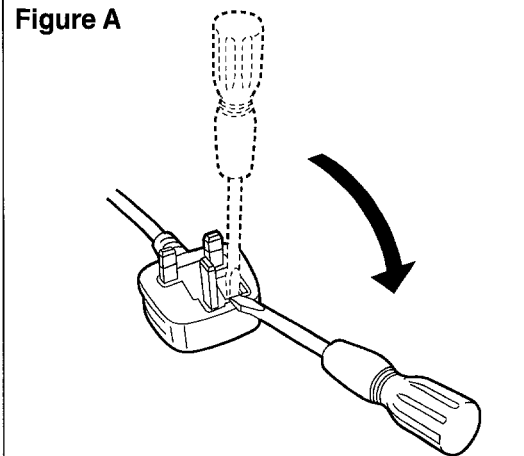
2. Replace the fuse and close or attach the fuse cover.

Figure A — Fuse (5 ampere)

Figure B — Fuse (5 ampere)

Before use

Battery installation

Insert the batteries in the correct polarities ($\oplus$, $\ominus$).

R6/LR6 (AA, UM-3)
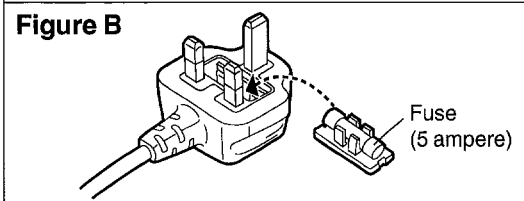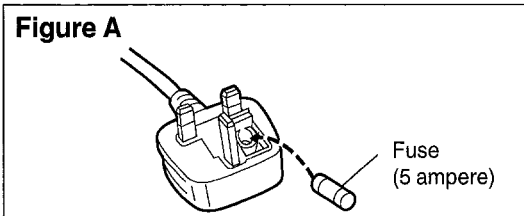
- Do not mix old and new batteries, or batteries of different types (manganese and alkaline, etc.).
- Never subject batteries to excessive heat or flame; do not attempt to disassemble them; and be sure they are not short-circuited.
- If the remote control is not to be used for a long period of time, remove the batteries and store them in a cool, dark place.
- Do not attempt to recharge alkaline or manganese batteries.
- Do not use rechargeable type batteries.

The batteries should be replaced if commands from the remote control transmitter do not operate the unit even when the transmitter is held close to the front panel.

Correct method of use

Remote control signal sensor

Tuner

7m

30   30

- Aim the remote control's transmission window toward the unit's sensor. Avoid any obstacles.
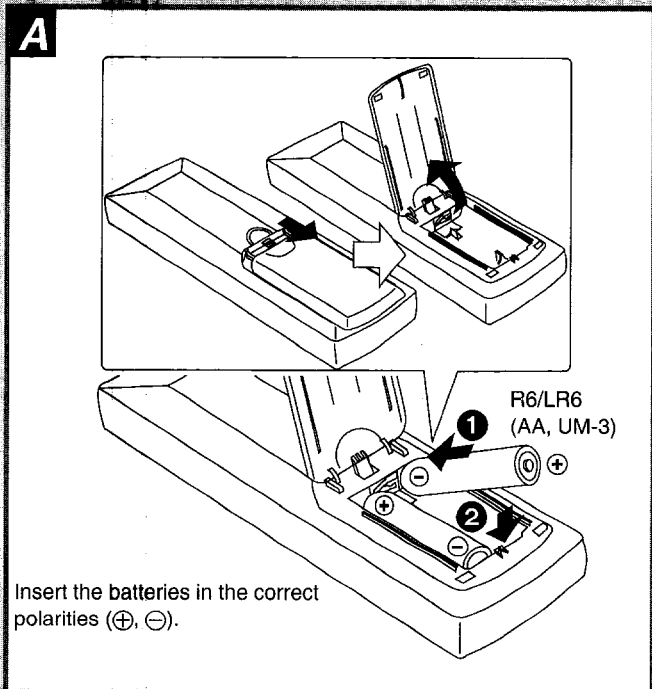- The maximum distance is within 7 meters directly facing toward the remote control signal sensor.
- Be sure the transmission window and the unit's sensor are free from dust. Excessive dust might affect its performance.
- The operation may not be correct if direct sunlight or other strong light source strikes the receiving sensor of this unit. If there is a problem, place the unit away from the light source.
- If this system is installed in a rack with glass doors, the glass doors' thickness or color might make it necessary to use the remote control a shorter distance from the system.
- Never place heavy items.
- Do not disassemble or reconstruct.
- Do not spill water or other liquids.
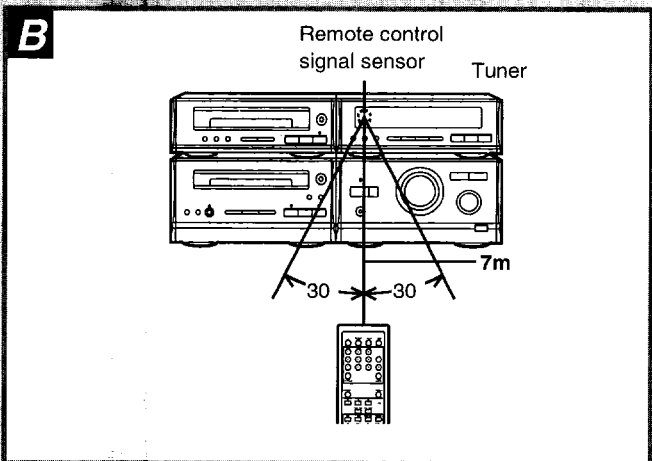
Installation

(a) CD player (SL-HD501/301)
(b) Tuner (ST-HD501/301)
(c) Cassette deck (RS-HD501/301)
(d) Amplifier (SE-HD501/301)
(e) Left speaker (SB-HD501/301)
(f) Right speaker (SB-HD501/301)
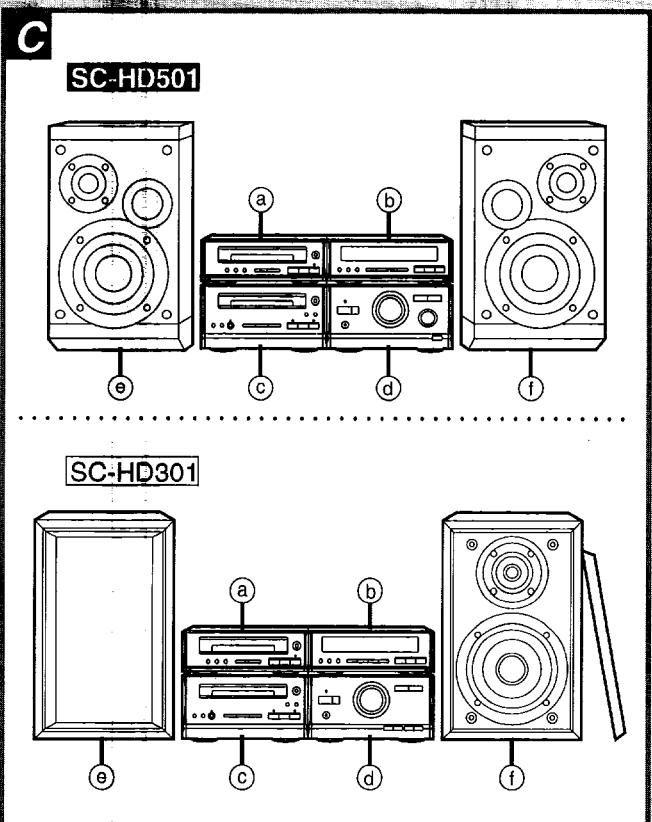
> **Caution**
> **Use the speakers only with the recommended system.**
> **Failure to do so may lead to damage to the amplifier and/or the speaker, and may result in the risk of fire.**
> **Consult a qualified service person if damage has occurred or if you experience a sudden change in performance.**

Note
- Do not put the CD player on the amplifier. The CDs can become hot and damaged.

- SC-HD301 only
Left and right speakers are exactly the same.

SC-HD501

SC-HD301

Before use

Unless otherwise marked, the illustrations show SC-HD501 sold outside Australia and New Zealand.

Connect the AC mains lead after you have connected all other cables.
To prepare the AM loop antenna wire and speaker cords, twist the vinyl cover tip and pull off.

Before use

2 (For Australia and N.Z.) (For others)

Twist FM ANT 75Ω

Adhesive tape

2

To connect cables To unplug cables

Connector Hold the connector from both ends and pull it out.

White line

3 ① ②

(Left)

(Right)

1 **1**

(a) (b)

4

4 **5**

To household AC outlet

SC-HD501
Blue (−)
Gray (+)
Red (+)
Black (−)

SC-HD301
Red (+)
Black (−)

SC-HD501
Gray (+)
Blue (−)
Red (+)
Black (−)

SC-HD301
Red (+)
Black (−)
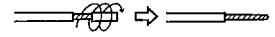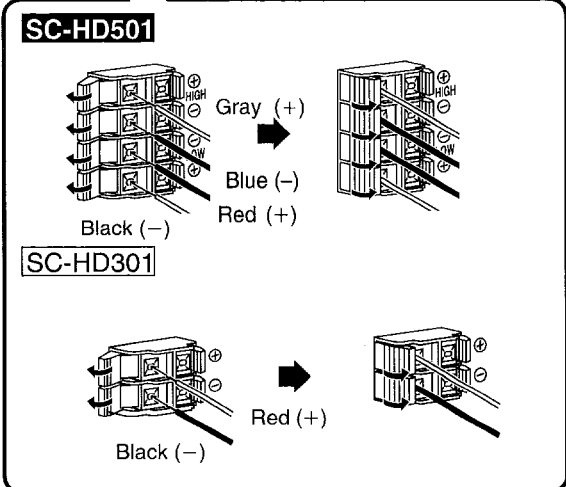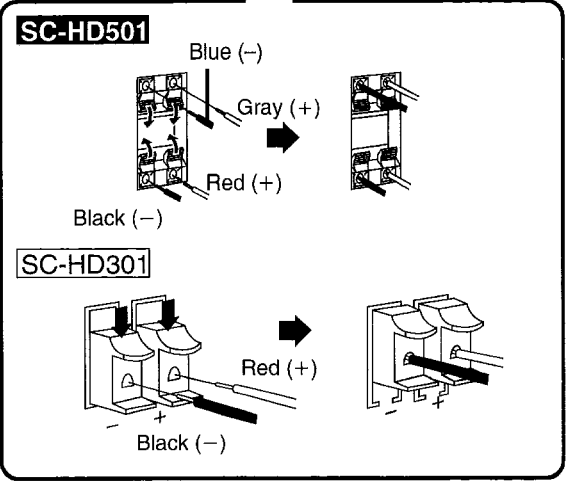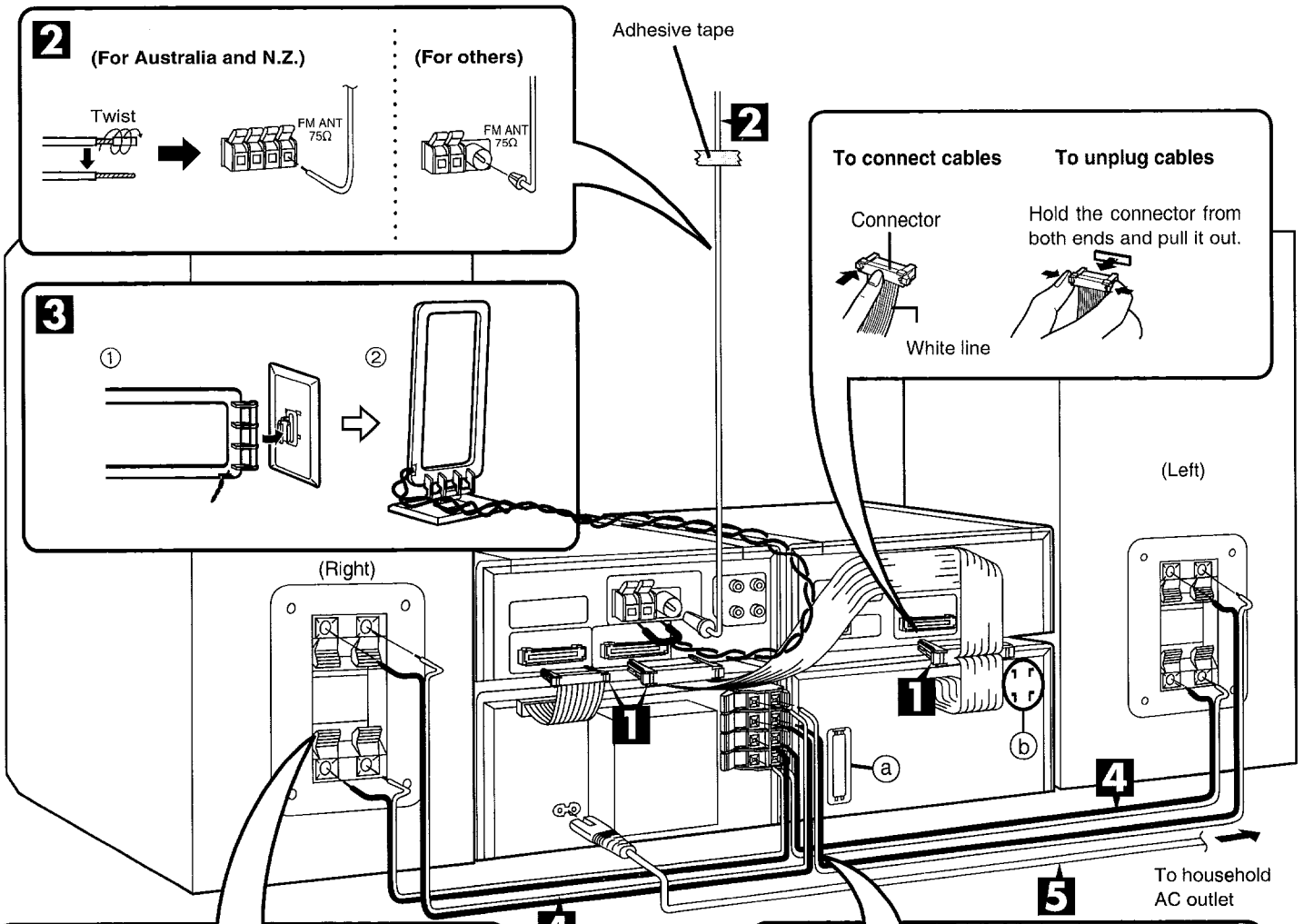
Before connection
Disconnect the flat cable on the cassette deck. ⓐ

▮1 Connect the flat cables.
Connect the flat cables to the terminals on each unit.

Note

Do not connect or disconnect the flat cables while the unit is on.

After connection:
Keep cables as flat against the back of the unit as possible.

▮2 Connect the FM indoor antenna.

Tape the antenna to a wall or column where radio signals are received with the least amount of interference.

Note

When you cannot get good reception with this FM indoor antenna, we recommend you install an FM outdoor antenna (not included).

▮3 Connect the AM loop antenna.
You can also install the AM loop antenna on the rear of the cassette deck, wall or pillars.
In this case, be sure to use the antenna holder with the hole.
●To install on the cassette deck rear (ⓑ)

●To install on walls or pillars

Screw (included)
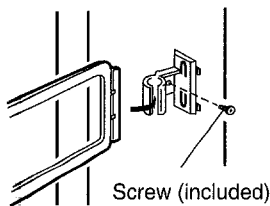
Note

Minimize noise by bundling the cord with tape to keep it away from the flat cables.

▮4 Connect the right (R) and left (L) speaker cables.
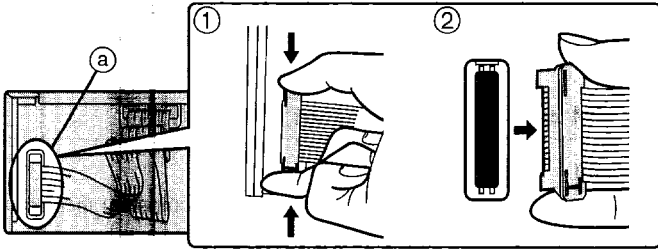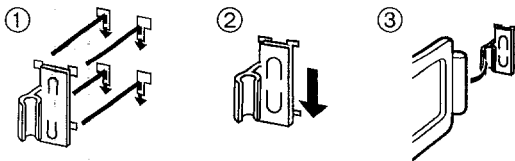Connect the speaker cables to the terminal levers of the same color.
Use only the supplied speakers.
The combination of the main unit and front speakers provide the best sound. Using other speakers can damage the unit and sound quality will be negatively effected.

Note

●To prevent damage to circuitry, never short-circuit positive (+) and negative (−) speaker wires.
●Be sure to connect only positive (red or gray) wires to positive (+) terminals and negative (black or blue) wires to negative (−) terminals.

(United Kingdom only)
BE SURE TO READ THE CAUTION FOR AC MAINS LEAD ON PAGE 4 BEFORE PROCEEDING TO STEP ▮5.

▮5 Connect the AC mains lead.
Insertion of Connector
Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing.
However there is no problem using the unit.

Appliance inlet   Connector
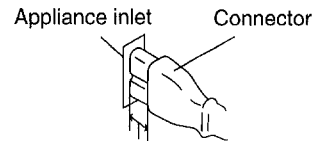
Approx. 6 mm

For your reference:
Information you enter into the unit's memory, except for the time, remains intact for up to two weeks after the mains lead is disconnected.

A

FM outdoor antenna
(not included)

Tuner

75Ω coaxial cable
(not included)

(For Australia and N.Z.)

① 30mm

②

③ 15mm

(For others)

(United Kingdom only)

Use the antenna plug adaptor (included).

B

Tuner

AM outdoor antenna
(not included)

5–12m

Cassette deck

Do not remove the
AM loop antenna.

C

Tuner

(R) (L)

EXT/ OUT
MD IN

(R) (L)

ⓐ

DIGITAL
OPTICAL
OUT

CD player

(R) (L)

IN
OUT (L)

(R)

DIGITAL
OPTICAL
IN

Minidisc deck,etc.
(not included)

Optional antenna connections

You may need an outdoor antenna if you use this system in a mountainous region or inside a reinforced-concrete building, etc.

FM outdoor antenna (not included) A

Note
An outdoor antenna should be installed by a competent technician only.

AM outdoor antenna (not included) B

Connect the outdoor antenna without removing the AM loop antenna. Run 5 to 12 m of vinyl-covered wire horizontally along a window or other convenient location.
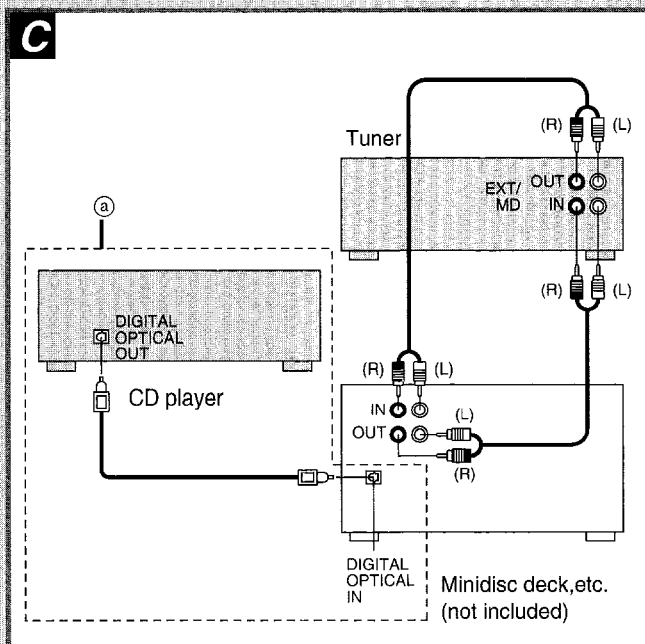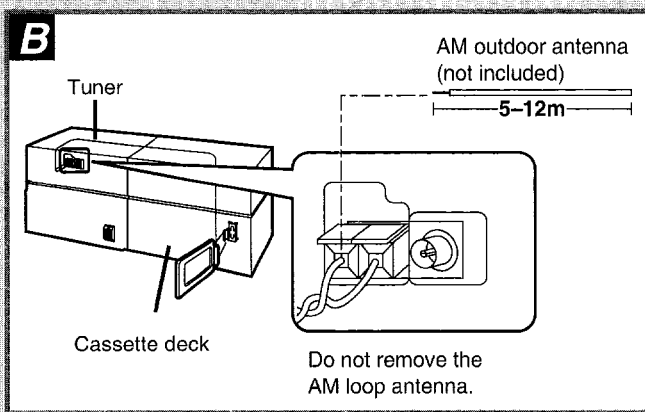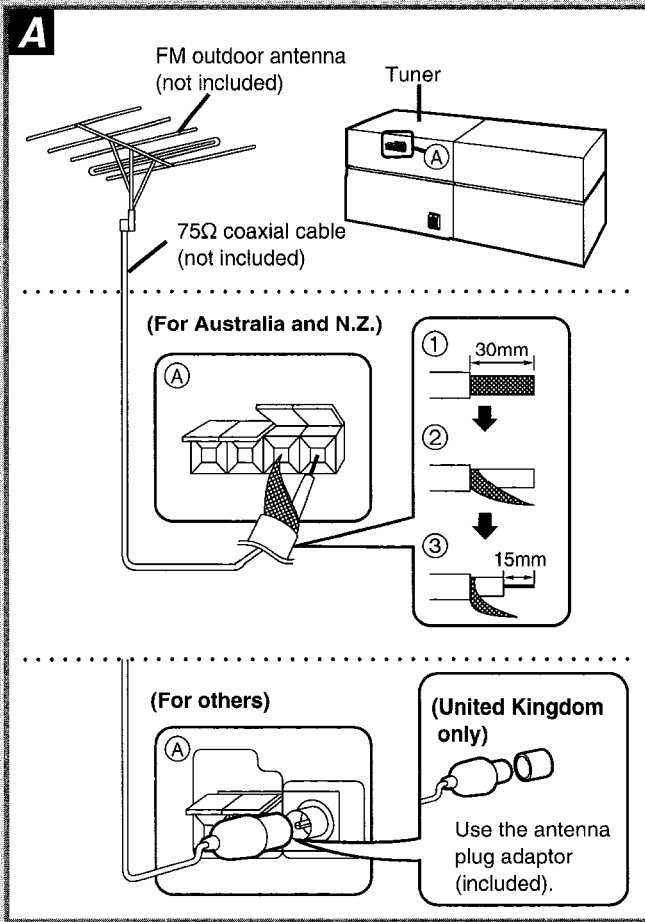
Note
When the unit is not in use, disconnect the outdoor antenna to prevent possible damage that may be caused by lightning. Never use an outdoor antenna during an electrical storm.

Connecting a minidisc deck, etc. C

● Make sure that the power supply for all components has been turned off before making any connections.
● For details, refer to the operating instructions of the external unit which is to be connected.
● All peripheral components and cables sold separately.

Stereo connection cable
White **(L)**
Red **(R)**

Connections to "DIGITAL OPTICAL OUT" terminal:ⓐ
Before using this terminal, take out the dust protection cap.
Connect an optical-fiber cable to the optical input terminal of the minidisc deck (not included).
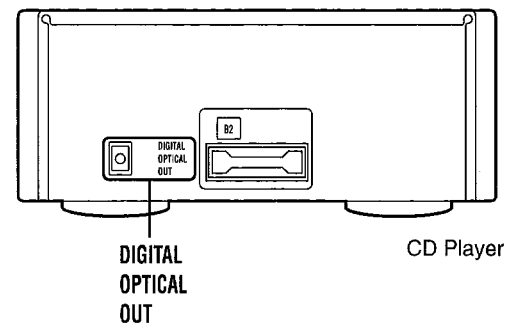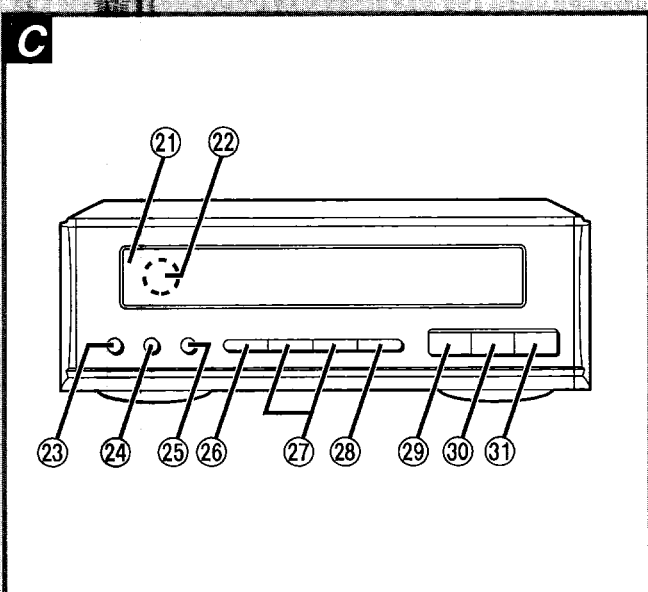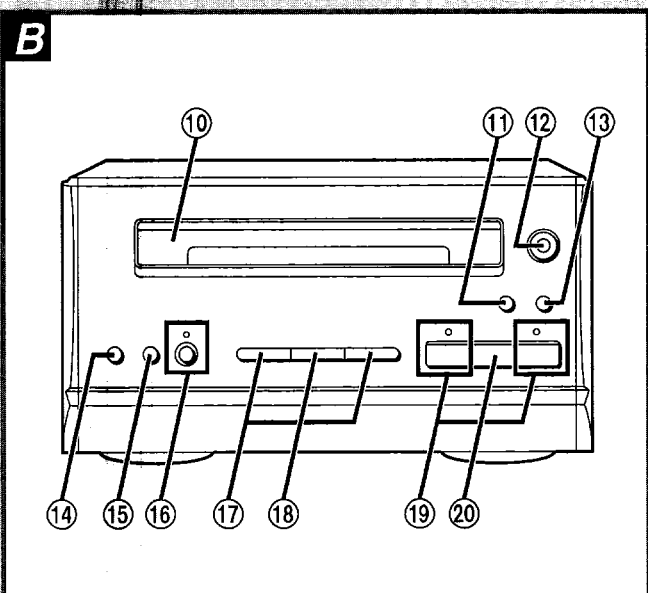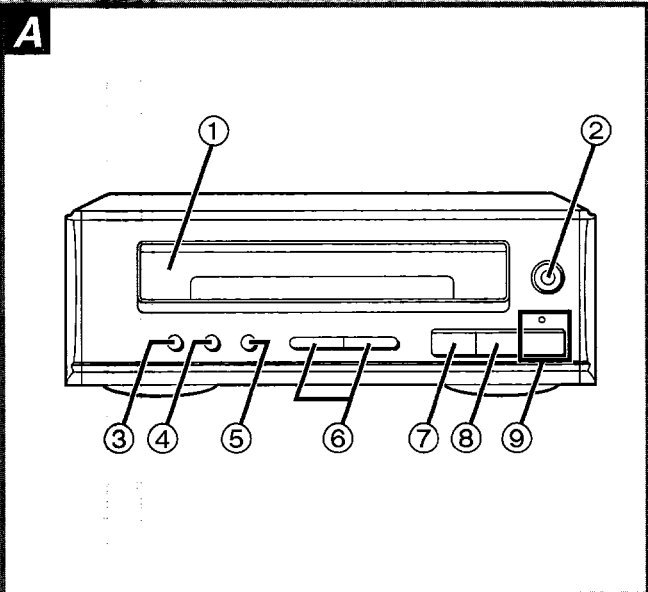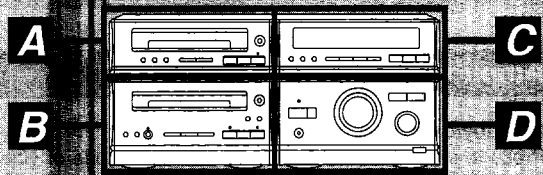
DIGITAL
OPTICAL
OUT

CD Player

CD player section   **A**

   The color of the indicator depends on the operation.
   If stopped: orange
   If playing or paused: green

Cassette deck section   **B**

   The color of the indicators depends on the operation taking
   place.
   If stopped, fast forwarding or rewinding: orange
   If playing, recording, or carrying out TPS: green

Tuner section   **C**

㉑ Display panel
   The display shows information for the cassette deck, CD player,
   and amplifier as well.

| SC-HD301 | SC-HD501 for Australia and N.Z. |

SC-HD501 for others

Before use

SC-HD501

SC-HD301
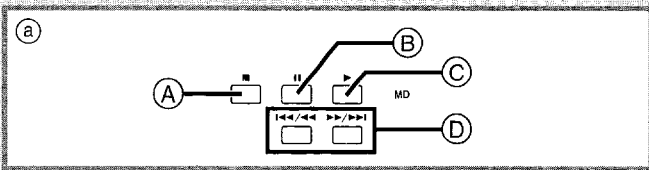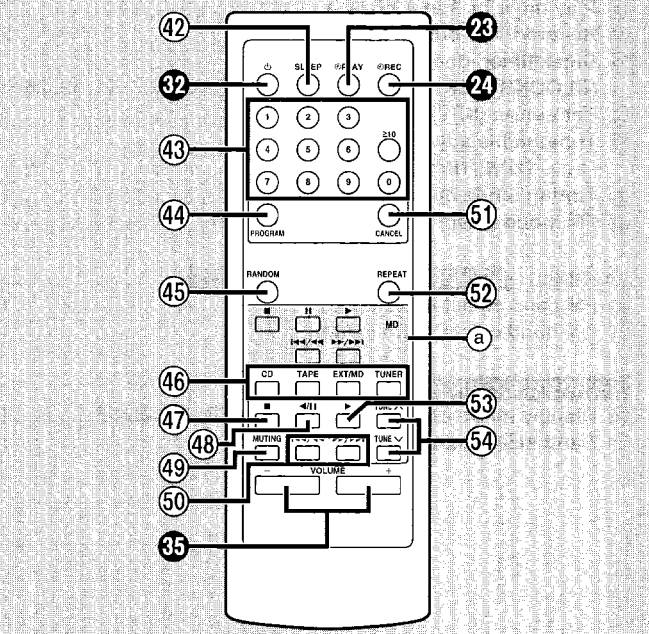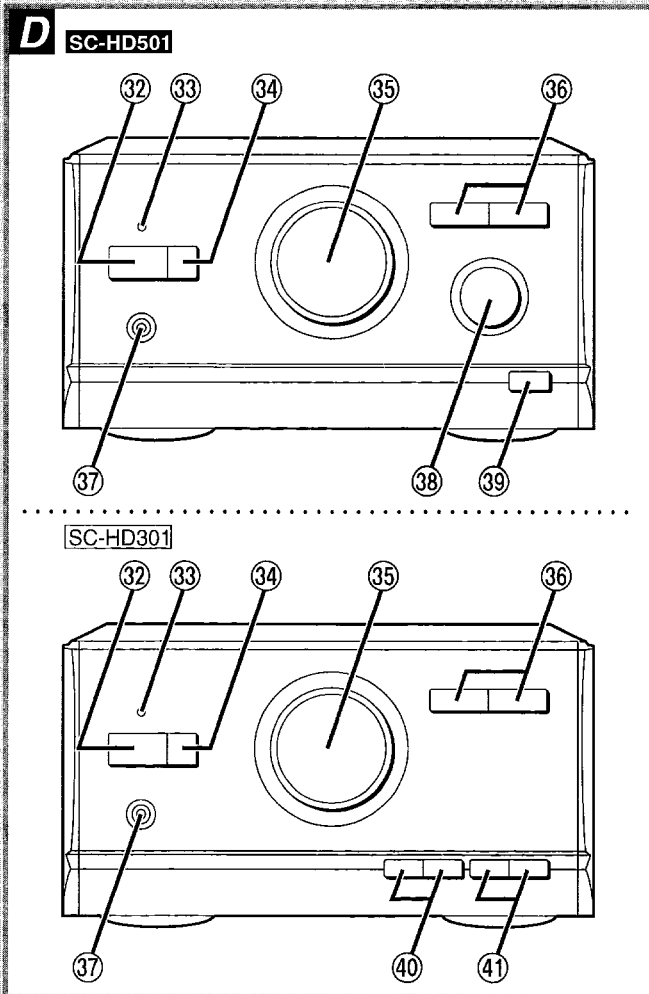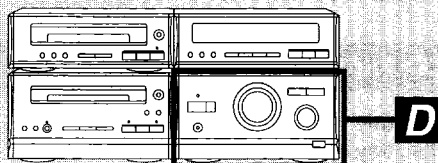
Amplifier section

㉜ **Standby/on switch (⏻/I)** **11**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
㉝ **Standby indicator**
When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.
㉞ **Eco mode button (ECO)** **11**
㉟ **Volume control (VOLUME)** **14**
㊱ **Source input select buttons (INPUT SELECTOR ∨, ∧)** .. **30**
㊲ **Headphones jack (PHONES)** **30**

SC-HD501 only
㊳ **Fine tweeter control (FINE TWEETER CONTROL)** **32**
㊴ **Bass button (BLFS)** **32**

SC-HD301 only
㊵ **Bass buttons (BASS –, +)** **32**
㊶ **Treble buttons (TREBLE –, +)** **32**

Remote control

Buttons such as ㊷ function the same as the buttons on the main unit.

㊷ **Sleep timer button (SLEEP)** **29**
㊸ **Numeric buttons** **18**
㊹ **Program button (PROGRAM)** **18**
㊺ **Random button (RANDOM)** **17**
㊻ **Input selection buttons (CD, TAPE, EXT/MD, TUNER)** ... **31**
㊼ **CD/tape stop button (■)** **16, 19**
㊽ **Tape reverse playback/CD pause button (◄/II)** **16, 19**
㊾ **Muting button (MUTING)** **31**
㊿ **CD skip/search, tape fast forward/rewind buttons**
(I◄◄/◄◄, ►►/►►I) **16, 18, 19**
�51 **Cancel button (CANCEL)** **18**
�52 **Repeat button (REPEAT)** **17**
�53 **CD play/tape forward playback button (►)** **16, 19**
�54 **Tuning buttons (TUNE ∧, TUNE ∨)** **13**

For areas except Australia and N.Z.
Minidisc deck operations (when connected to a minidisc deck SJ-HD501 (sold separately)) ⓐ
Ⓐ **Stop button (■)**
Ⓑ **Pause button (II)**
Ⓒ **Play button (►)**
Ⓓ **Skip, fast forward/rewind buttons (I◄◄/◄◄, ►►/►►I)**

A

CLOCK/TIMER

-DEMO

CLOCK/TIMER

-DEMO

```
NO DEMO
```

↕

```
*DEMO MODE*
```

B

⏻/I   ECO

⏻/I

↓

ECO

```
ECO
```
FLAT

↕

```
NORMAL
```
FLAT

Turning the demo function off (DEMO) 🅰

If the clock has not been set, a demonstration of the display is shown when the unit is off.
This function is set to on at the time of purchase.

To get the most from the economy mode (see below), turn the demo function off.

Press and hold [CLOCK/TIMER, –DEMO] until "NO DEMO" is displayed.
Every time you press and hold the button;
NO DEMO (off) ⇄ DEMO MODE (on)

ECO mode 🅱

When this mode is used the power consumed when the unit is switched to standby mode reduces from a maximum of 9.0 W to 0.8 W
This mode is set to on at the time of purchase.

	NORMAL (off)	ECO (on)
Display	Clock display, etc.	Blank
Power consumption in standby mode	9.0 W	0.8 W

The demonstration is shown if DEMO is on, regardless of the condition of the ECO mode. Turn DEMO off if ECO is used.

Turning ECO on and off:

Press [⏻/I] to turn the unit on.
Press [ECO].
The current ECO mode is displayed. Press again to change the mode.
The display changes each time the button is pressed;
NORMAL (off) ⇄ ECO (on)
When ECO is on:
When the power is switched off, standby indicator lights, but the display panel remains blank.

Note
When the unit is off, the mode can be switched from NORMAL to ECO, but not the other way.
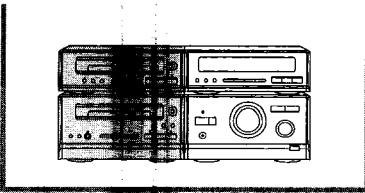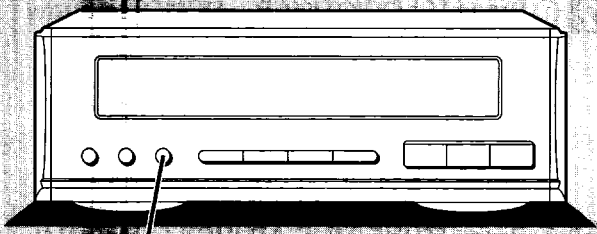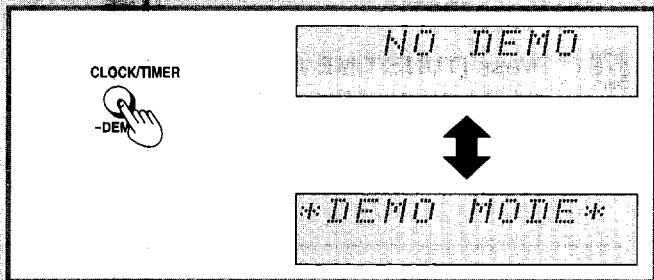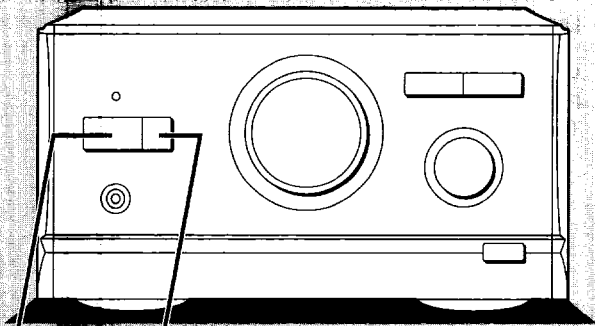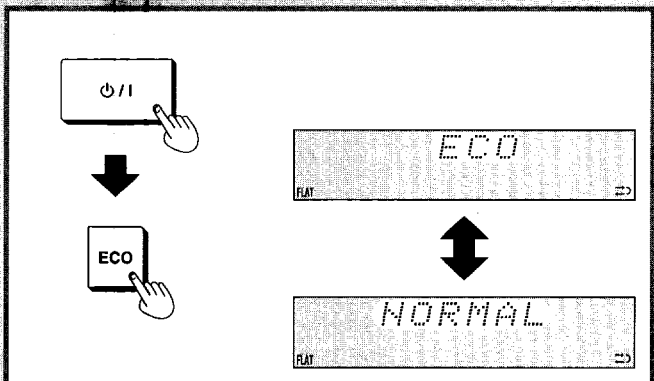
Setting the time

This is a 24-hour display clock.

These instructions explain how to set the timer for 16:25 on Wednesday.

1 Press [⏻/l] to turn the unit on.

2 ① Press [CLOCK/TIMER, –DEMO] to show "CLOCK".
Every time you press the button;
CLOCK→⏰ PLAY→⏰ REC→Previous display

② **Within 7 seconds:**
Press [SET].

3 ① Press [TUNE/TIME ADJUST (∨ or ∧)] to set the day.
Every time you press one of the buttons;
SUN⟷MON⟷TUE⟷WED⟷THU⟷FRI⟷SAT

② Press [SET].

4 ① Press [TUNE/TIME ADJUST (∨ or ∧)] to set the present time.
② Press [SET].
The time is now set and the panel will return to the previous display.

Displaying the clock
When the system is off
When ECO mode is off;
The clock is displayed constantly.
When ECO mode is on;
Press [CLOCK/TIMER, –DEMO].
The clock is displayed for about 5 seconds and then the display goes blank again.

When the system is on
Press [CLOCK/TIMER, –DEMO].
The clock display will appear for about 5 seconds.
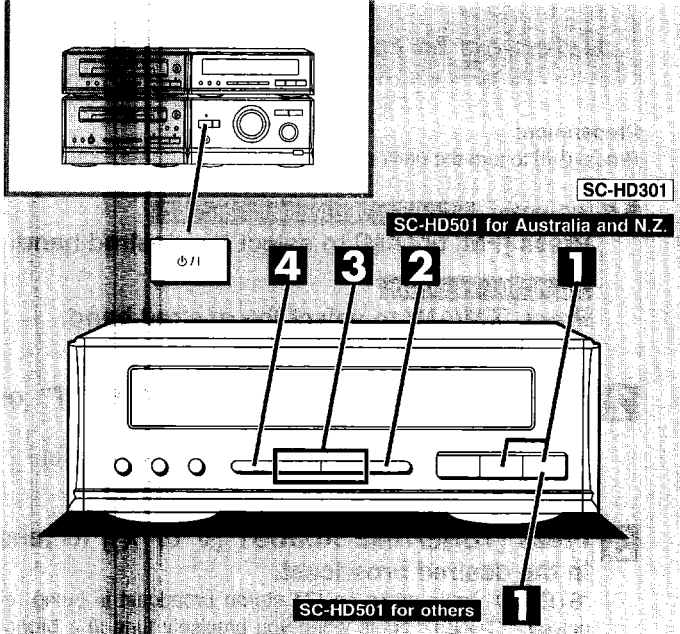
1

⏻/l

2

① CLOCK/TIMER
-DEMO

② SET

CLOCK

3

① TUNE/TIME ADJUST

SUN

② SET

-WED-

4

① TUNE/TIME ADJUST

WED -0:01-

② SET

WED -16:25-

SC-HD301

SC-HD501 for Australia and N.Z.

SC-HD501 for others

●Once stations have been preset, you can easily select them from the tuner or the remote control.
●The frequencies are automatically preset (in sequence from lower to higher frequencies) into the memory: "channels" 1 to 39 are available for the presetting of FM stations and "channels" 21 to 39 are available for AM stations.

Preparation: Press [⏻/I] to turn the unit on.

1 SC-HD301 SC-HD501 for Australia and N.Z.
Press [FM] or [AM] to select the desired band.

SC-HD501 for others
Press [FM/AM] to select the desired band.
Each time you press the button;
FM←→AM

2 **Press [TUNE MODE] to select "MANUAL".**
Each time you press the button;
MANUAL←→PRESET

3 **Press and hold [TUNE/TIME ADJUST (∨ or ∧)] until the display shows the frequency from which you want to begin automatic memory presetting.**
Press [TUNE/TIME ADJUST (∨ or ∧)] momentarily to stop changing frequencies when the displayed frequency approaches the desired frequency. Tap [TUNE/TIME ADJUST (∨ or ∧)] a few times until the desired frequency is reached.

4 **Hold down [SET].**
Release your finger when the words "AUTO MEMORY" scroll across the display.
All stations that the set is able to pick up are set in the memory.

The "M" in the display will then flash while the tuner is storing the received frequency in memory. When storing is complete, "SET OK" will be displayed and the unit plays the last station that was put into memory.
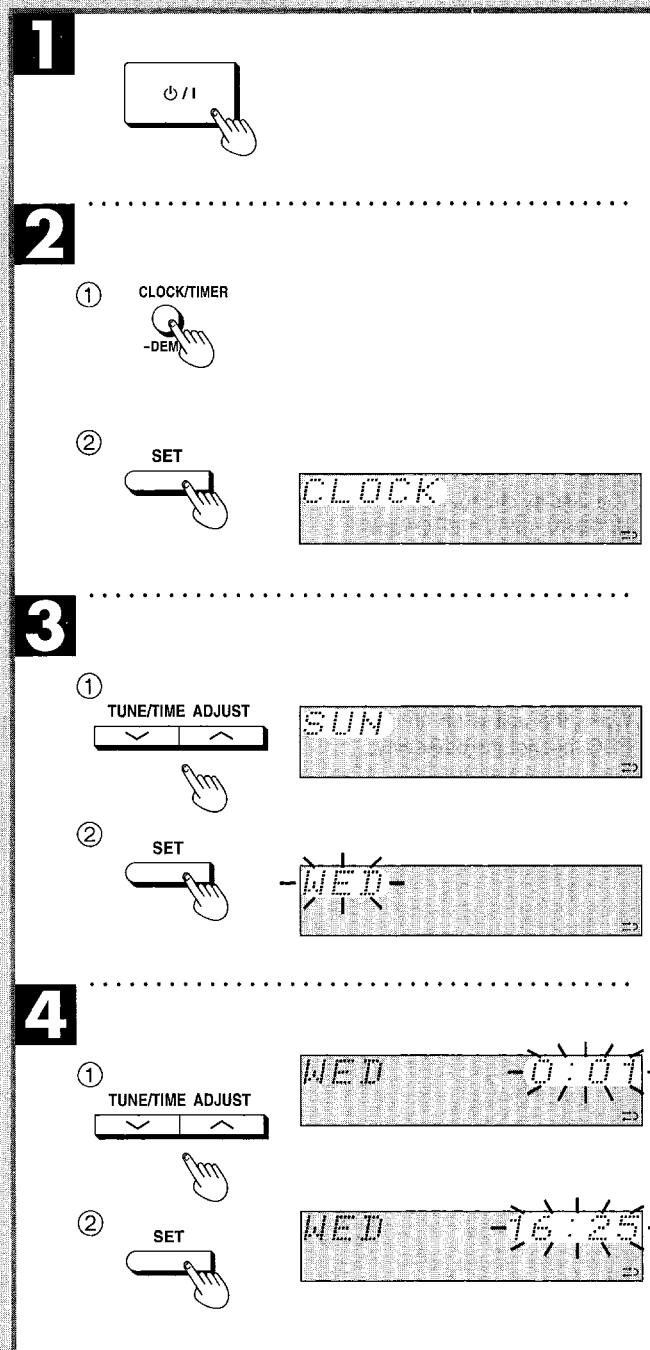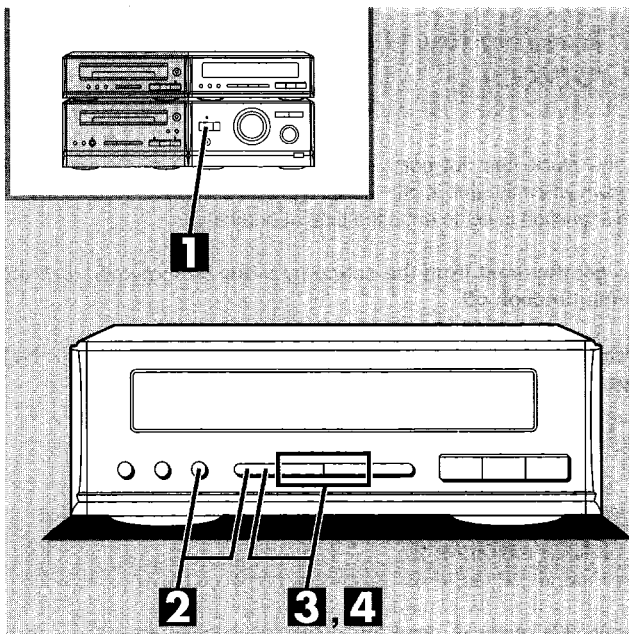
If the above is not possible because radio signals are weak or for some other reason ("ERROR" appears), do the following.

Presetting only your favorite stations

Preset the stations one at a time.
① SC-HD301 SC-HD501 for Australia and N.Z.
Press [FM] or [AM] to select the desired band.
SC-HD501 for others
Press [FM/AM] to select the desired band.
② Press [TUNE MODE] to select "MANUAL".
③ Press [TUNE/TIME ADJUST (∨ or ∧)] to tune in the desired broadcast.
④ Press [SET].
⑤ Press [TUNE/TIME ADJUST (∨ or ∧)] to select the desired preset channel.
⑥ Press [SET].

Note
When you preset a broadcast station to a channel that has already been preset, the previous station will be erased. So if, for example, FM frequencies are preset from channel 1 to 39 and then AM frequencies are preset, the first AM frequency will be preset to channel 21 (thus erasing the FM presetting to channel 21), the second AM frequency will be preset to 22 (erasing FM 22), and so on.

Before use

13

Preparation:
Press [⏻/I] to turn the unit on.

1 | SC-HD301 | SC-HD501 for Australia and N.Z.
Press [FM] or [AM] to select the desired band.

SC-HD501 for others
Press [FM/AM] to select the desired band.
Every time you press the button; FM⟷AM

2 **Press [TUNE MODE] to select "PRESET" or "MANUAL".**
●Select "PRESET" when stations are preset. (➡ page 13)
●Select "MANUAL" when stations are not preset.

3 **Press [TUNE/TIME ADJUST (∨ or ∧)] to tune in the desired broadcast.**
"STEREO" lights when an FM stereo broadcast is being received. "TUNED" lights when you precisely tune in a broadcast station.

4 **Adjust the volume.**

To select a preset channel with the remote control:
Press the numbered buttons.
To select a two-digit channel:
Press [≥10] and then the two numbers you want within 10 seconds or so.

| If noise is excessive in the FM stereo mode: **A** |

Press [AUTO/MONO].
Every time you press the button; MONO⟷AUTO
The sound reception mode switches to "MONO" (monaural) and "MONO" lights.
The sound will be heard in monaural. If the signal is weak or there is interference, sound will be clearer.

To cancel the "MONO" mode, press the button again.

When "MONO" indicator is off:
Use this setting for normal listening. Both stereo and monaural sounds can be heard as they are.

Note
●"MONO" is canceled when the frequency is changed.
●Stations can be preset in monaural. Carry out presetting manually (➡ page 13).
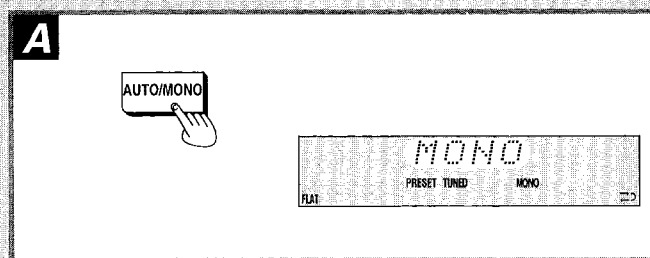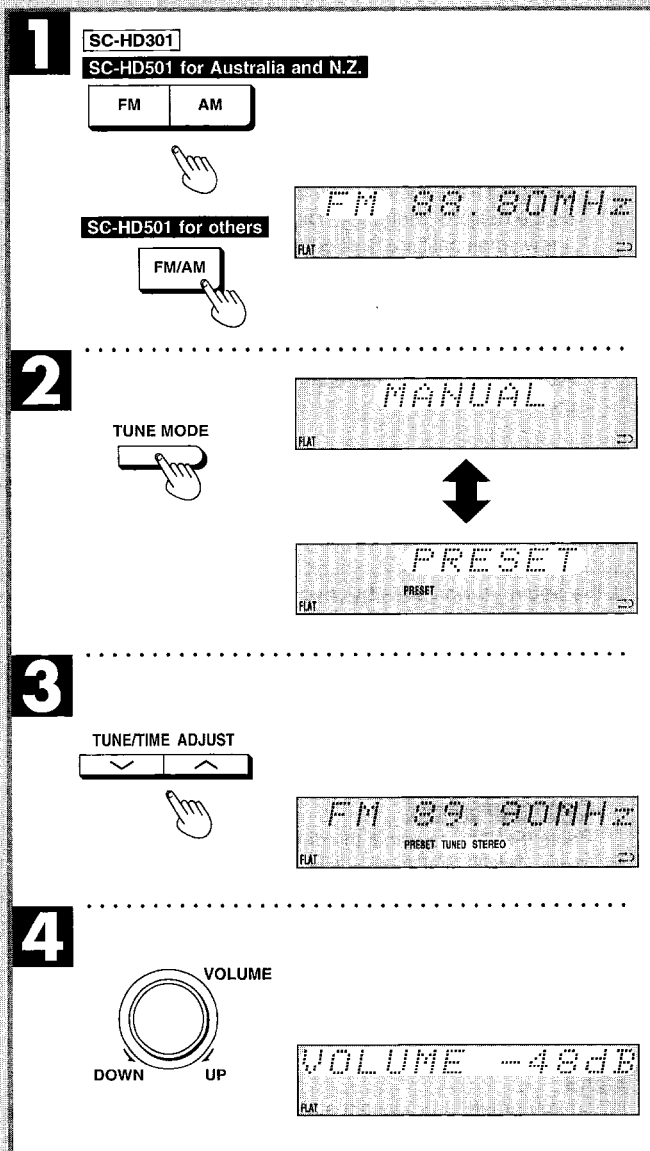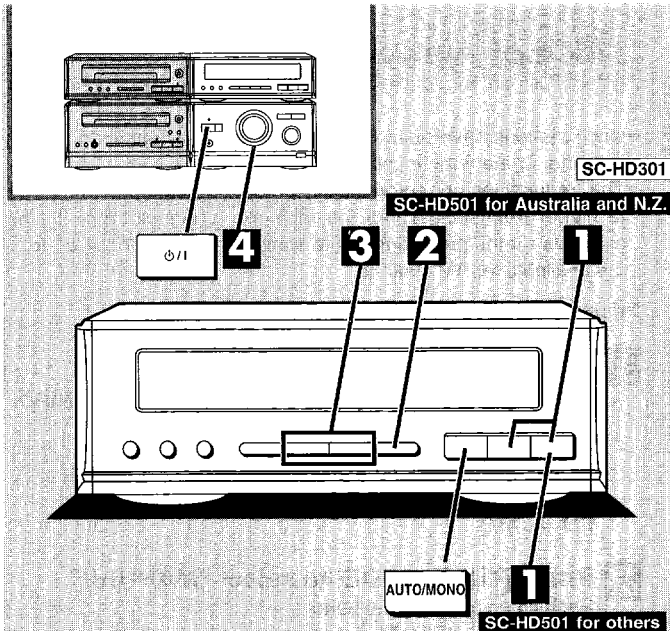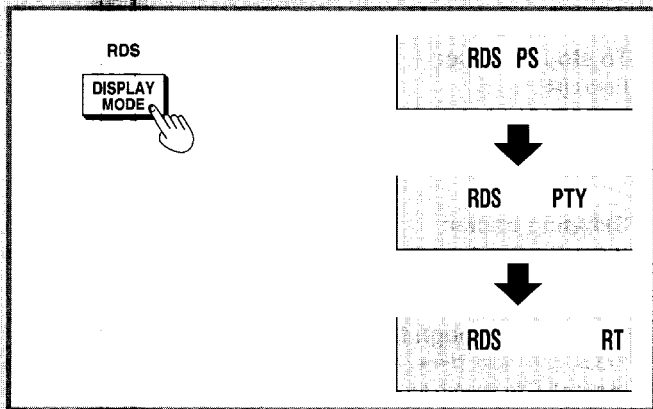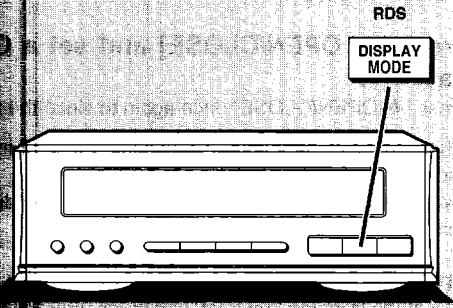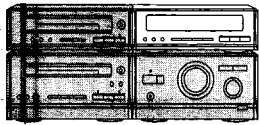
Radio operations

1 | SC-HD301 |
SC-HD501 for Australia and N.Z.
| FM | AM |

FM 88.80MHz
FLAT

SC-HD501 for others
| FM/AM |

2 TUNE MODE
MANUAL
FLAT

PRESET
FLAT   PRESET

3 TUNE/TIME ADJUST
| ∨ | ∧ |
FM 89.90MHz
FLAT   PRESET TUNED STEREO

4 VOLUME
DOWN   UP
VOLUME -48dB
FLAT

A AUTO/MONO
MONO
FLAT   PRESET TUNED   MONO

This unit lets you take advantage of the Radio Data System (RDS) in areas where RDS broadcast services are received. This advanced system provides useful information, utilizing a 57 kHz subcarrier above the audible range, in addition to the main FM signal.

Station display (PS display)

The name of the station is displayed when PS signals are received.

Display by particular type of program (PTY)

There are 31 displays to represent different types of programs.

NEWS (News)
AFFAIRS (Current Affairs)
INFO (Information)
SPORT (Sport)
EDUCATE (Education)
DRAMA (Drama)
CULTURE (Culture)
SCIENCE (Science)
VARIED (Varied)
POP M (Pop music)
ROCK M (Rock music)
M.O.R M (Middle of road music)
LIGHT M (Light classical music)
CLASSICS (Serious classical music)
OTHER M (Other music)
WEATHER (Weather)
FINANCE (Finance)
CHILDREN (Children's programmes)
SOCIAL A (Social Affairs)
RELIGION (Religion)
PHONE IN (Phone in)
TRAVEL (Travel)
LEISURE (Leisure)
JAZZ (Jazz)
COUNTRY (Country music)
NATIONAL (National music)
OLDIES (Oldies music)
FOLK M (Folk music)
DOCUMENT (Documentary)
TEST (Alarm test)
ALARM (Alarm)

Radio text display (RT display)

Radio text is displayed when RT signals are received.

Changing the display

If the station you are listening to is transmitting RDS signals, "RDS" will light up on the display and you can change the display.
Press [RDS DISPLAY MODE].
Each time you press the button;

PS───→PTY───→RT───→Frequency
display   display   display   display
↑_____|

Note
The radio frequency is displayed if PS, PTY, and RT signals are not being received.
RDS displays may not be possible if reception is poor.

RDS

DISPLAY
MODE

RDS

DISPLAY
MODE

RDS PS

RDS PTY

RDS RT

Radio operations

Compact disc operations

Sequential play

Preparation: Press [⏻/I] to turn the unit on.

1 **Press [▲ OPEN/CLOSE] and set a CD on the tray.**
Press [▲ OPEN/CLOSE] once again to close the tray.

When the "CD" input source is selected, total number of tracks and total playing time will appear on the display.
If you insert a CD TEXT disc, CD TEXT data is displayed (see below).

2 **Press [▶].**
Play starts from the first track and stops after the last track.

3 **Adjust the volume.**

To stop the disc:
Press [■].

To pause play:
Press [II] during play. To resume play, press [II] or [▶].

Skipping tracks:
Press [I◀◀/◀◀] to skip backward. Press [▶▶/▶▶I] to skip forward.

Searching through tracks during play:
Press and hold [I◀◀/◀◀] to search backward. Press and hold [▶▶/▶▶I] to search forward.

Note
● During random play, you can not skip to tracks which have been played. (➡ page 17)
● During program play or random play, you can search-forward/backward only within the current track. (➡ pages 17 and 18)
● During program play, skipping is always in the programmed order, whether forward or backward. (➡ page 18)
● Do not use CDs with poorly attached labels or stickers.
   Adhesive protruding from underneath stickers or left over from peeled off stickers can cause your system to malfunction.
● Do not use irregular shape CDs. **A**

Playing CD TEXT discs

CD TEXT discs have text information recorded onto them (e.g. the name of the album and artist, messages, etc.).
This unit is able to display this text as you enjoy the CD.
Playback is the same as for normal audio CDs.

To switch between the text display and the normal display:
Press [CD TEXT].
The displays switch each time the button is pressed.

To scroll the text:
Press [SCROLL].
After displaying "SCROLL ON", the CD (or track) title, artists name and other information scrolls continuously across the screen.

To cancel:
Press [SCROLL]. "SCROLL OFF" is displayed.

Note
The text content differs from CD to CD.
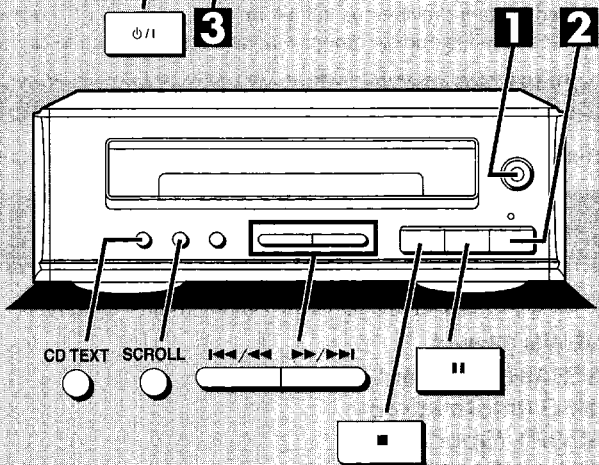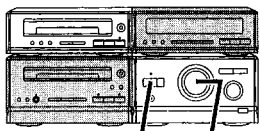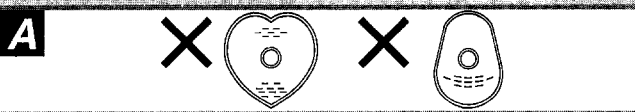
(For Australia and N.Z.)   **(For others)**
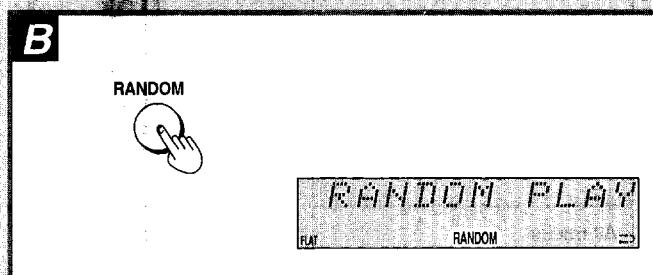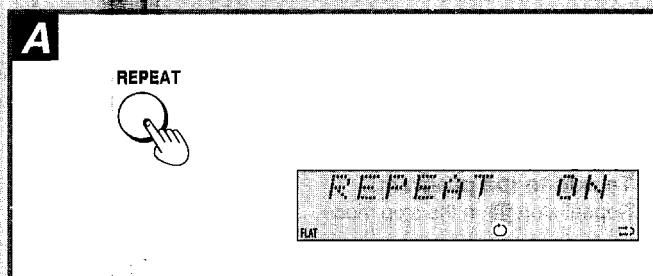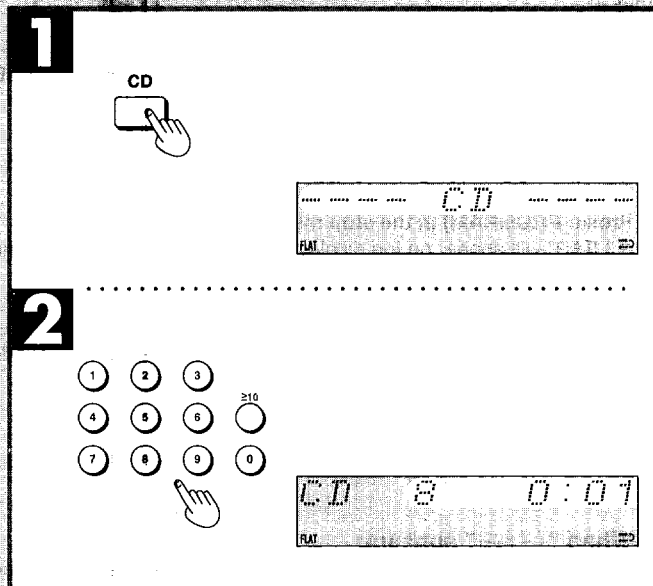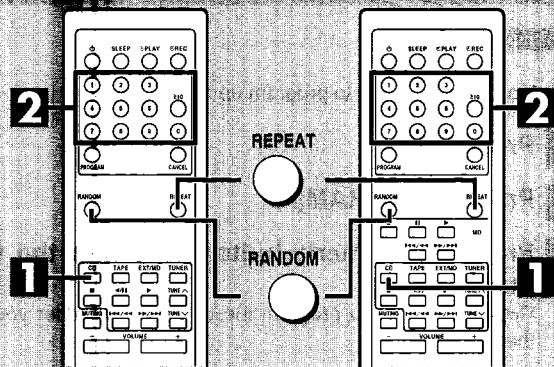
Direct access play

by remote control only

Direct access allows you to start sequential play from a specific track to the last track.

1 Press [CD].

2 Press the numeric button(s) to select the track.

The CD will be played from the selected track to the last track.

To select a two-digit track:
Press [≥10] and then the two numbers you want within 10 seconds or so.

Repeat play   A

by remote control only

This function repeats play of all tracks or programmed tracks.

Press [REPEAT] before or during play.

To cancel repeat play:
Press [REPEAT] once again.

To repeat only your favorite track(s):
1. Program the track(s) you want (➡ page18).
2. Press [REPEAT] and make sure " ↻ " is displayed.
3. Press [▶]. Play will start.

Random play   B

by remote control only

This function automatically selects a sequence of tracks to be played in random order.

Press [RANDOM].
Random play starts.
Play will stop automatically when all tracks on the disc finish playing randomly.

To cancel random play:
Press [RANDOM] once again.

Compact disc operations

(For Australia and N.Z.)   (For others)

CD

PROGRAM

PROGRAM
FLAT   PRGM   ⇒

Programmed track number ——— Programmed order

TRACK   3 --- 07
FLAT   PRGM   ⇐⇒

↓

CD 3   1:52
FLAT   PRGM   ⇒

Total playing time

▶

A (For Australia and N.Z.)   (For others)

CANCEL
■
I◄◄/◄◄   ►►/►►I

CLEAR
FLAT

Program play

This function allows you to program up to 24 tracks.

1 Press [CD].

2 Press [PROGRAM].

3 Press the numeric buttons to enter the track number.
Repeat this step to program the tracks in the order you want them to play.

4 Press [►].
Play will start in the programmed sequence.
When all the programmed tracks have been played, the CD player will stop automatically.

To cancel program play mode:
Press [PROGRAM] in the stop mode.
"CLEAR" will appear on the display for approximately 1 second and all the programmed tracks will be cancelled.

To select a two-digit track:
Press [≥10] and then the two numbers you want within 10 seconds or so.

When "FULL" appears:
The number of programmed tracks is limited to 24. No further tracks can be programmed.

When "--:--" appears:
The total playing time of the programmed tracks has exceeded 199 minutes 59 seconds. You can still program and play the disc.

To check program contents:
Press [I◄◄/◄◄] or [►►/►►I] while play is stopped. Every time you press one of the buttons, the track No. and program No. are shown on the display.

To add to the program:
Repeat step **3** in the stop mode.

Clearing programmed tracks (While stopped) **A**

In order from the last track	Press [CANCEL]. "CANCEL" is displayed
Selected tracks	Press [I◄◄/◄◄] or [►►/►►I] to display the track and press [CANCEL] within 10 seconds.
All tracks	Press [■] . Program play is also canceled.

Compact disc operations

Types of tapes which can be played correctly:
The unit automatically identifies the type of tape.

Normal position/TYPE I	○
High position/TYPE II	○
Metal position/TYPE IV	○

Preparation: Press [⏻/I] to turn the unit on.

1 Press [▲ OPEN/CLOSE] and insert the tape.
Load with the exposed side facing the cassette holder.
Insert until it touches the back of the compartment.
Press [▲ OPEN/CLOSE] once again to close the cassette holder.

2 Press [DOLBY NR] to select Dolby NR on or off.
"□□NR" appears when the Dolby NR system is on.

3 Press [REV MODE] to select the reverse mode.
Each time you press [REV MODE], one of the indicators will appear.
⇄: The deck plays one side only.
⇄⊃: The deck plays both sides.
⊂⇄⊃: The deck plays both sides 8 times.

4 Press [◄] or [►].
Play begins and the lamp changes to green.
►: The forward side will play.
◄: The reverse side will play.

5 Adjust the volume.

To stop tape playback:
Press [■].

To fast forward or rewind the tape ▯

Press [TPS]◄◄ or ►►[TPS] while the tape is in the stop mode.

Tape direction	To rewind	To fast-forward
►	[TPS] ◄◄	►► [TPS]
◄	►► [TPS]	[TPS] ◄◄

Hi-speed fast-forward/rewind
This cassette deck is designed to roughly double fast-forward/rewind speed automatically.
When you fast-forward from the beginning of the tape or rewind from the end of it, the tape runs at high speed.
When approaching the end of the tape, the deck automatically drops to normal speed.

COUNTER RESET   DISPLAY

TPS SKIP

[TPS]◀◀   ▶▶ [TPS]

A COUNTER RESET
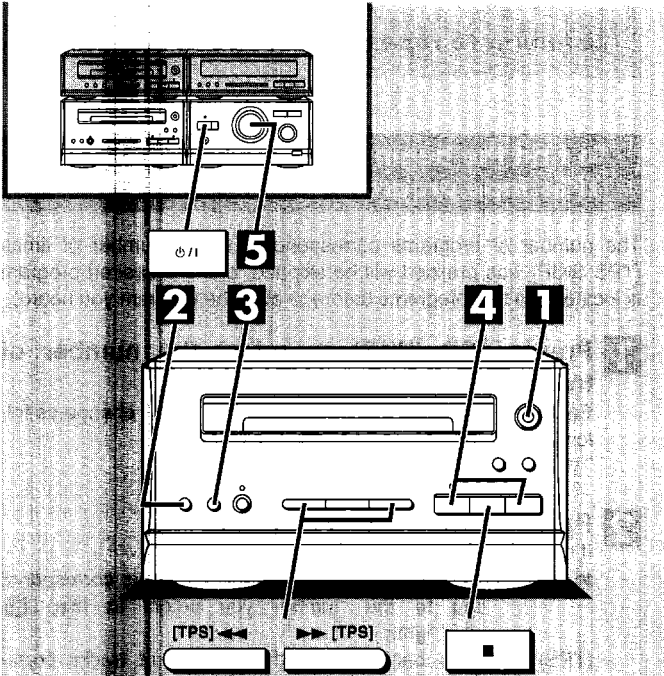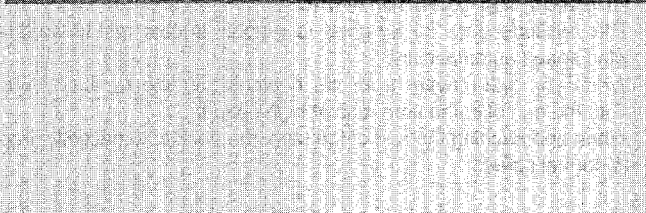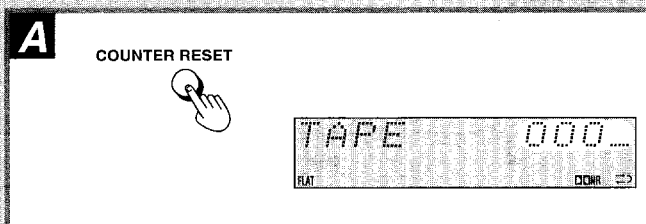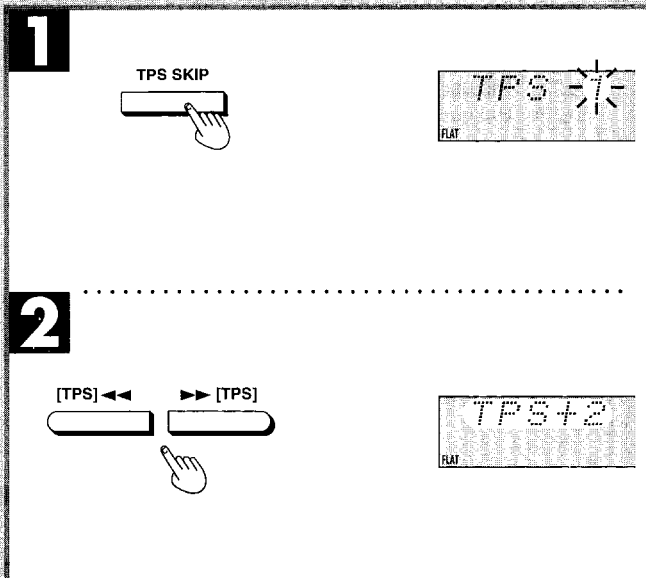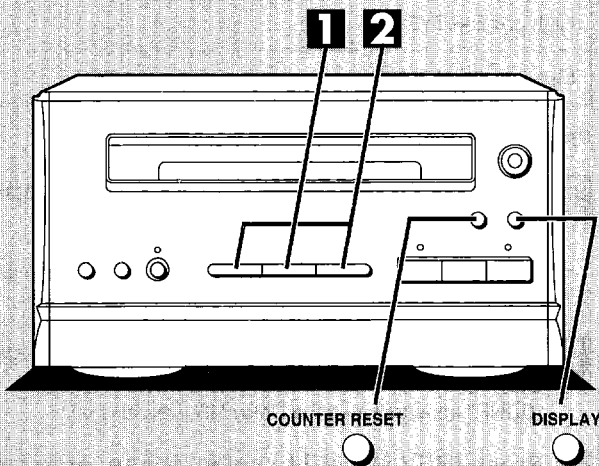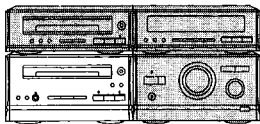
To find the beginning of a program (TPS: tape program sensor)

The number of programs corresponding to the number of times [TPS SKIP] was pressed will be skipped, and the desired program is located (up to 9 programs before or after the program you heard).

1 Press [TPS SKIP] to select the number of tracks you want to skip.
Each time you press this button, the display will change as follows;
TPS 1→ 2 → 3 → ... 8 → 9→ TAPE

2 Press [TPS] ◀◀ or ▶▶ [TPS].
If the forward side (▶) is playing:
▶▶[TPS]: Skip forward by the number of tracks corresponding to the number you select in step **1**. ("+" lights.)
[TPS]◀◀: Skip backward by the number of tracks corresponding to the number you select in step **1**. ("–" lights.)
When you select "TPS 1", the deck will skip back to the beginning of the track you are currently listening to and will start playing it again.
The illustration shows an example when you select "TPS 2" while the forward side (▶) is playing.
If the reverse side (◀) of the tape is playing:
The reverse operation will take place.

For your reference:
Step **1** isn't necessary if you only want to skip to the next track or the beginning of the current track.

Note
●To change the setting (the number of the programs to be skipped, the tape travel direction, etc.) while TPS skip is activated, press [■] to stop the deck first.
●If the number of TPS skips specified is larger than the number of songs recorded on the tape, the unit may stop at the end of the tape or otherwise fail to operate correctly.
●TPS searches for silent parts of about 4 secondes normally found between tunes. As a result, it may not function properly in the following cases.
●With short silent parts
●When noise occurs between tunes
●With silent parts found between tunes

To reset the tape counter   **A**

Press [COUNTER RESET].

> **To reset the tape counter while playing or recording the radio or a CD**

① Press [DISPLAY].
② Press [COUNTER RESET] while the tape counter is being displayed (displayed for approximately 5 seconds).

Cassette deck operations

A

Recording part

Leader tape.
(no recording can be made)

B

3 **4** **5** **6** **2**

---

1 INPUT SELECTOR

∨ ∧

2 ▲ OPEN/CLOSE

3 DOLBY NR

4 REV MODE

5 REC PAUSE ○

6 ○   ○
◄   ►
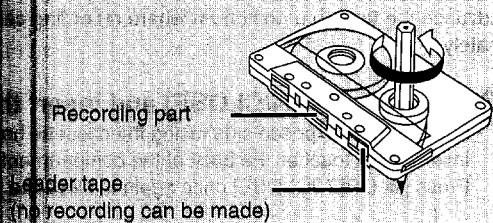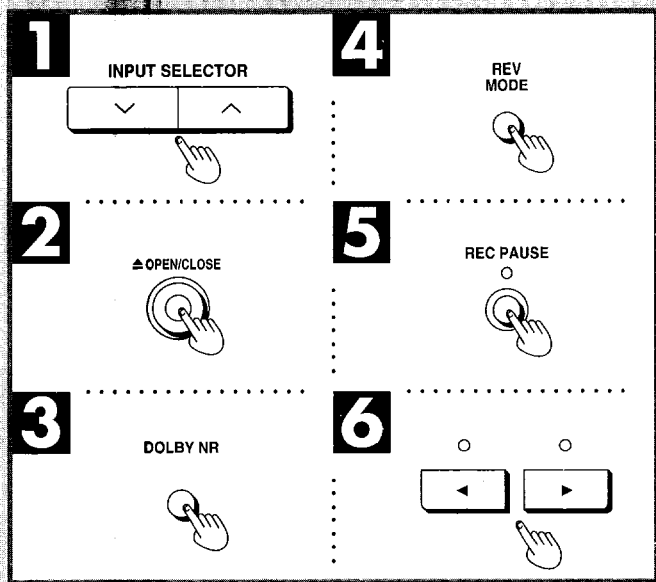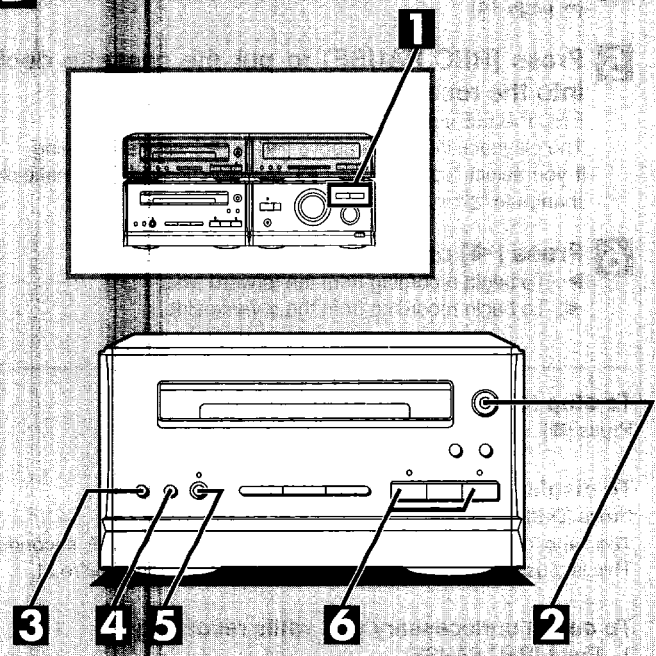
Types of tapes which can be recorded correctly

The unit automatically identifies the type of tape.

Normal position/TYPE I	○
High position/TYPE II	○
Metal position/TYPE IV	○

How to advance the leader tape   Ⓐ

Wind the leader tape forward so that recording can start as soon as you press the button. This is not necessary if one-touch editing from CDs.

About Dolby noise-reduction system

The Dolby noise-reduction system is designed to effectively reduce the annoying high-frequency "hissing" noise typical of cassette tapes. During recording, the system functions to increase the high-frequency sound level, the sound, and then, during playback, that same portion is weakened to bring it back to the previous level. This unit is equipped with the Dolby B NR-type.

Dolby B-type noise reduction:
Noise is reduced to about one-third.
Use this system when playing back tapes recorded by the Dolby-B noise-reduction system, such as prerecorded music tapes, etc.

> Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
> "DOLBY" and the double-D symbol ⫿⫿ are trademarks of Dolby Laboratories Licensing Corporation.

Volume and sound quality in recording

Changes to volume or sound quality are not recorded.

To erase recorded sounds   Ⓑ

1 Press [INPUT SELECTOR (∨ or ∧)] on the amplifier to select "TAPE".

2 Insert the recorded tape into deck.

3 Press [DOLBY NR] so that the Dolby NR indicator ("⫿⫿NR") goes off.

4 Press [REV MODE] to select reverse mode.

5 Press [REC PAUSE].
REC PAUSE indicator will light.

6 Press [◄] or [►], whichever side you want to erase.

> **Your attention is drawn to the fact that recording pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.**

Recording operations
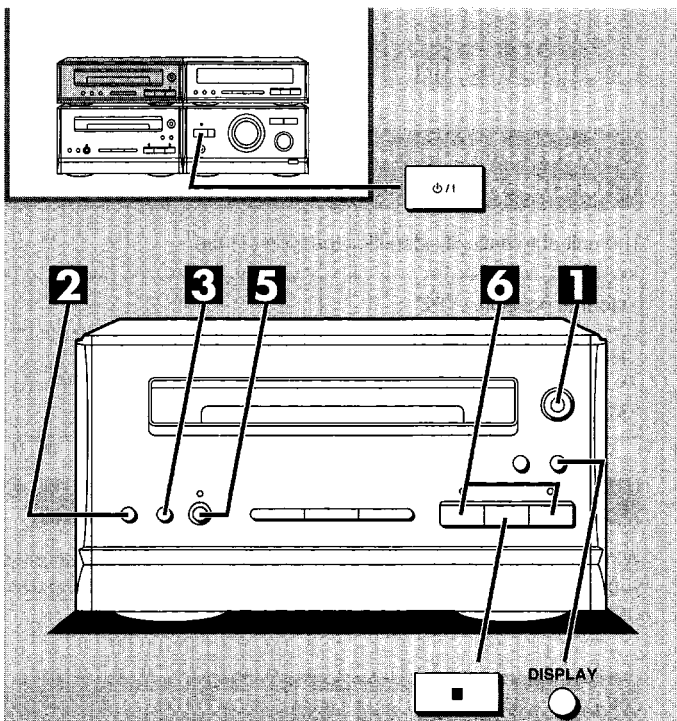
Preparation:
● Press [☉/|] to turn the unit on.
● Advance the tape to a point from where recording can start immediately.

1 **Press [▲ OPEN/CLOSE] and insert the tape.**
Load with the exposed side facing the cassette holder.
Insert until it touches the back of the compartment.
Press [▲ OPEN/CLOSE] once again to close the holder.

2 To record in Dolby B NR:
Press [DOLBY NR] so "□□NR" is diplayed.

3 **Press [REV MODE] to select the reverse mode.**
⇌: One side will record.
⇌⊃ ⊂⇌⊃: Both sides will record (forward side→reverse side).

4 **Tune in the desired station.**
(➡ page 14)

5 **Press [REC PAUSE] to put the cassette deck into the recording standby mode.**
REC PAUSE indicator will light.
The playback indicators above [◀] or [▶] will start flashing.
If you select "⊂⇌⊃" in step **3**, the direction will automatically change to "⇌⊃" when you press [REC PAUSE].

6 **Press [◀] or [▶] to start recording.**
▶: To begin recording from the forward side.
◀: To begin recording from the reverse side.

To stop recording:
Press [■].

To display the tape counter while recording:
Press [DISPLAY] .
The tape counter will be displayed for approximately 5 seconds.
This is a useful way for knowing what point of the tape you're at.

To cut an unnecessary part while recording:
1. Press [REC PAUSE].
   The cassette deck will go into the recording standby state.
2. To resume recording, press [◀] or [▶], whichever playback indicator is flashing.
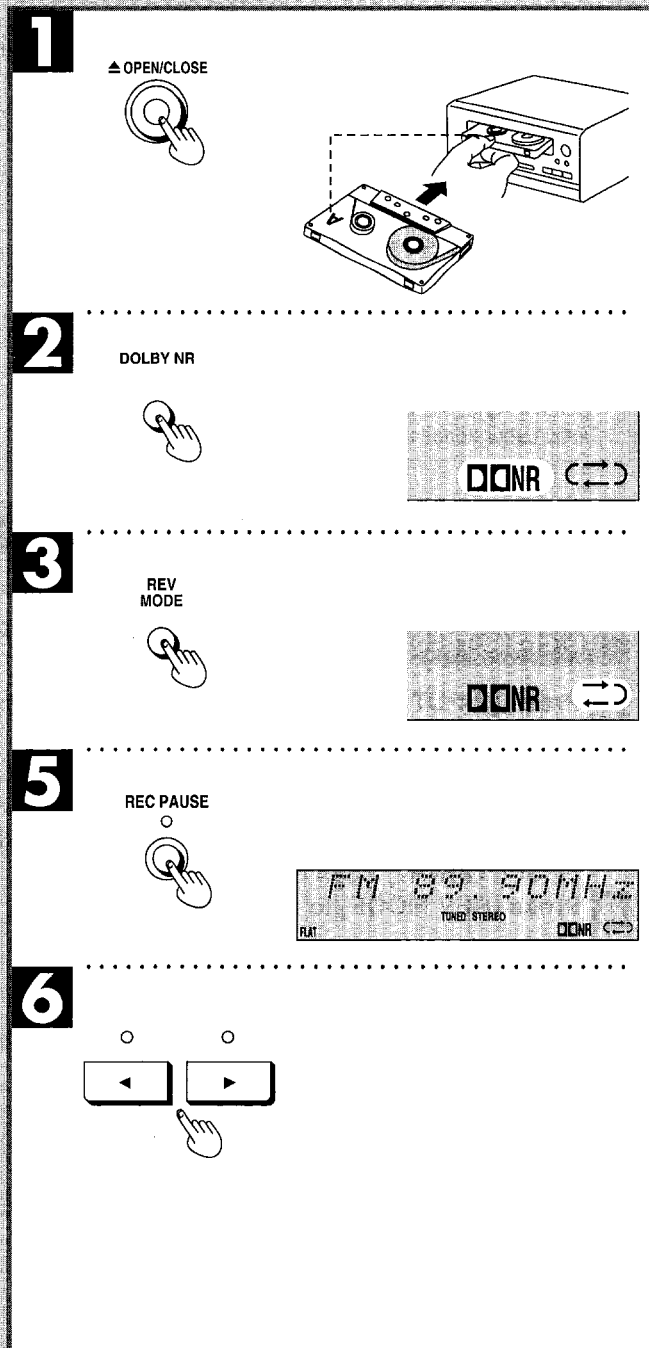
Normal recording

Preparation:
- Press [⏻/I] to turn the unit on.
- Advance the tape to a point from where recording can start immediately.

1 Press [▲ OPEN/CLOSE] and insert the tape.
Load with the exposed side facing the cassette holder.
Insert until it touches the back of the compartment.
Press [▲ OPEN/CLOSE] once again to close the holder.

2 To record in Dolby B NR:
Press [DOLBY NR] so "□□NR" is displayed.

3 Press [REV MODE] to select the reverse mode.
⇄: One side will record.
⇄⊃ ⊂⇄⊃: Both sides will record (forward side→reverse side).

4 Set the tape travel direction.
To change the tape travel direction, first press [◄] or [►] on the cassette deck, then press [■].
►: Recording from the forward side
◄: Recording from the reverse side

5 Insert a CD in the tray.
(→ page 16)

6 Press [REC PAUSE] to put the cassette deck into the recording standby mode.
REC PAUSE indicator will light.
If you select "⊂⇄⊃" in step **3**, the direction will automatically change to "⇄⊃" when you press [REC PAUSE].

7 Press [►] on the CD player.
Recording will automatically start corresponding to the tape travel direction.

Approximately 4 seconds after the CD finishes playing, the cassette deck will automatically put recording on standby.

To stop recording:
- **To add a 4 second silent interval before stopping**
Press [■] on the CD player.
The cassette deck will go into the recording standby state.
- **To stop recording without a silent interval**
Press [■] on the cassette deck.
The CD player will not stop.

To record programmed tracks A

① Perform steps **1** – **5** above, and then press [CD] on the remote control.
② Press [PROGRAM] on the remote control.
③ Select the track number from the remote control with the numeric button(s).
④ Repeat step ③ until you have programmed all tracks (max. 24 tracks).
⑤ Perform steps **6** and **7** above.

Recording operations

A (For Australia and N.Z.)   (For others)

PROGRAM

CD
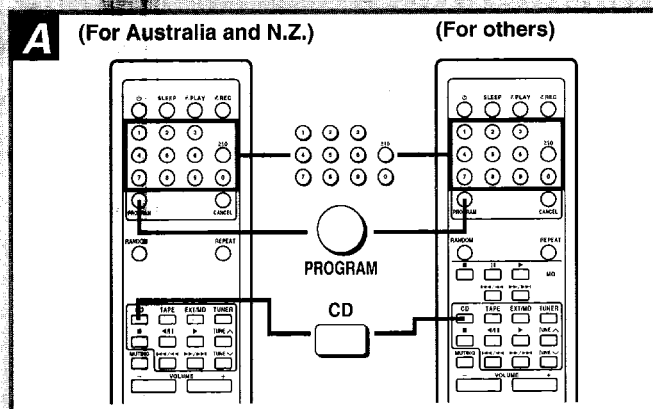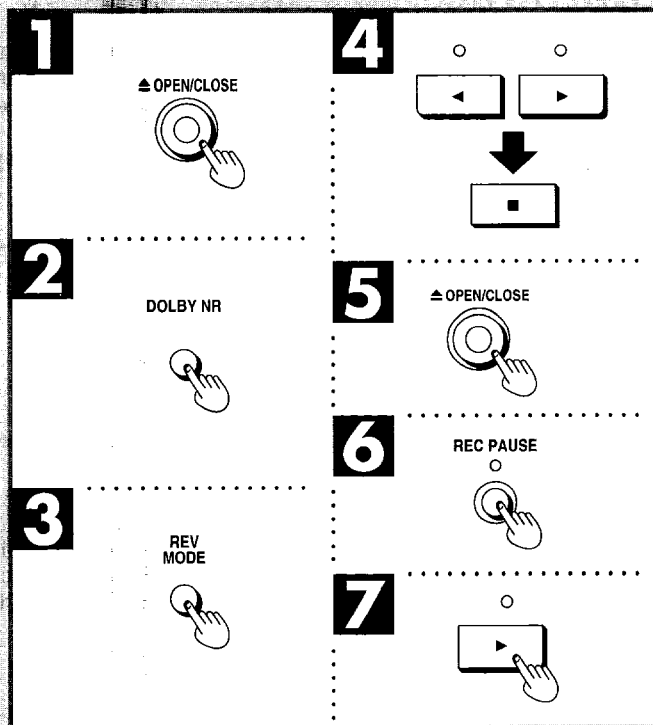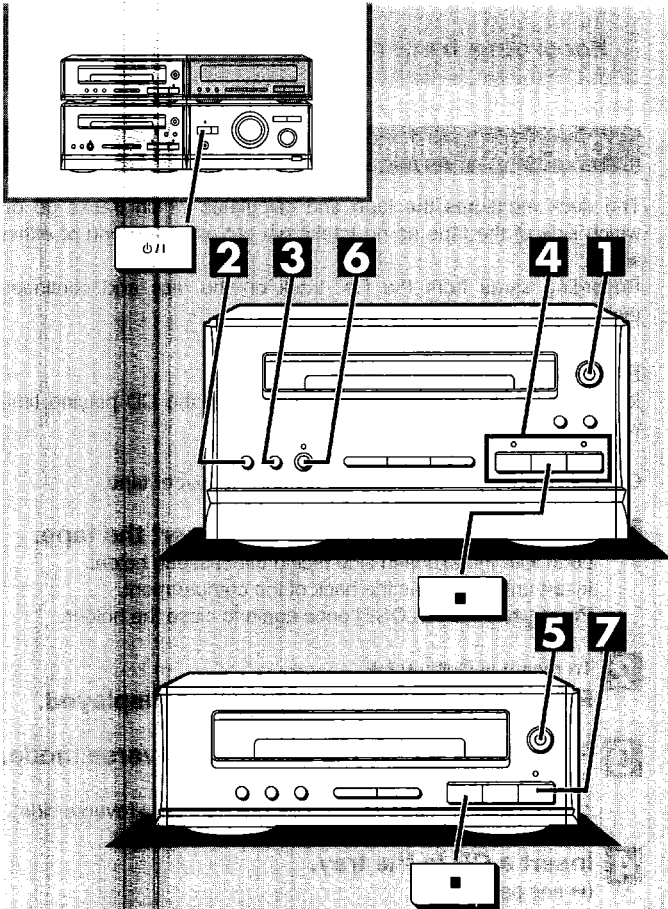
One-touch editing (AI EDIT)

The deck measures the tape and calculates which tracks go on which side of the tape so no tracks get cut off at the end of either side.
Recording starts from the first track on the disc and continues through to the last track.

For your reference:
It is better to use a tape slightly longer than the CD playing time when recording.

One-touch editing automatically positions the leader tape.

1 Press [▲ OPEN/CLOSE] and insert the tape.
Load with the exposed side facing the cassette holder.
Insert until it touches the back of the compartment.
Press [▲ OPEN/CLOSE] once again to close the holder.

2 To record in Dolby B NR:
Press [DOLBY NR] so "▢▢NR" is displayed.

3 Press [REV MODE] to select the reverse mode.
⇄: One side will record.
⇄⊃ ⊂⇄⊃: Both sides will record (forward side→reverse side).

4 Insert a CD in the tray.
(→ see page 16)

5 Press [AI EDIT] on the CD player.
The deck will rewind the tape and recording will start. In the meantime, "AI EDIT TAPE" will scroll across the display from right to left. It will take a moment for recording to actually begin.
If you select "⊂⇄⊃" in step **3**, the direction will automatically change to "⇄⊃" when you press [AI EDIT].

To stop one-touch editing:
Press [■] on the cassette deck.
The CD player will also stop.
"EDIT OUT" will scroll across the display from right to left.

When tracks are allotted to both sides:
When the tracks alloted to side A finish playing, the deck records to the end of the side to complete calculation.

After edit-recording has finished:
The tape deck automatically puts recording on standby. In the meantime, if "LINK" flashes on the display, there is enough space on the tape that you can continue recording from another CD (→ page 25).
If you want to link the tracks, do not press [■] on the CD player.

To edit-record programmed tracks 🄰

① Perform steps **1** – **4** above, and then press [CD] and [PROGRAM] on the remote control.
② Select the track number from the remote control with the numeric buttons.
③ Repeat step ② until you have programmed all tracks (max. 24 tracks).
④ Press [AI EDIT] on the CD player. Recording will begin.
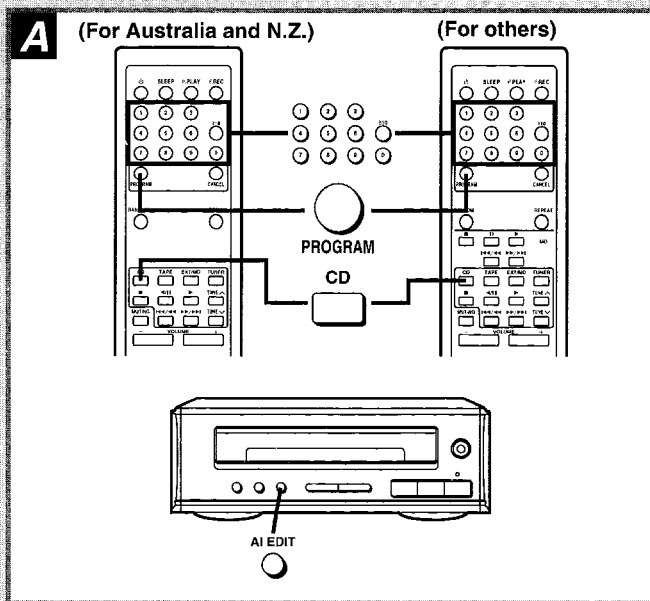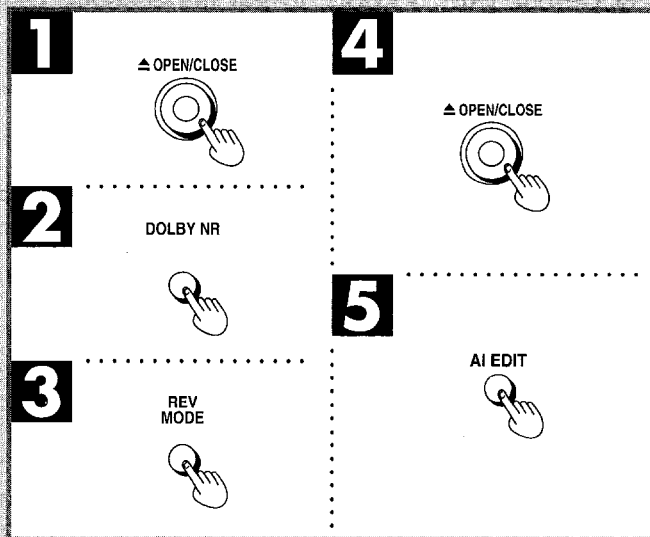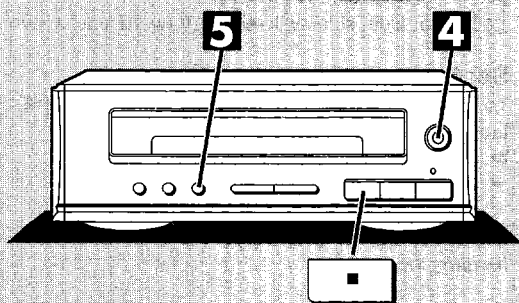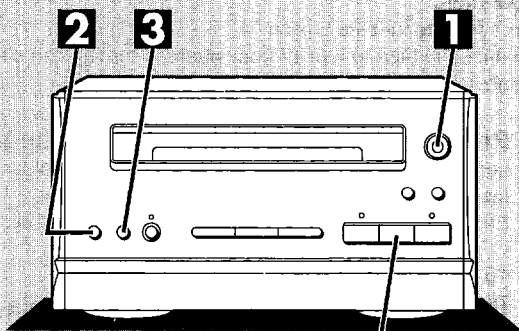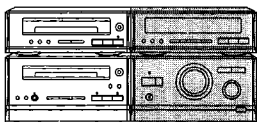
Recording onto left over space on tapes (LINK)

After the edit-recording of a CD has finished, you can subsequently edit-record other CD(s) on the remaining blank portion of the tape.

You can link up another CD when "LINK" flashes after editing a CD.

∎1∎ Press [▲ OPEN/CLOSE] to replace the CD.
Press [▲ OPEN/CLOSE] to close the tray.

∎2∎ Press [▶].
Linking will start.
As long as there is space on the tape to record, when recording has finished, the cassette deck will put linking on standby.

To continue linking tracks:
Repeat steps ∎1∎ and ∎2∎.

To cancel the LINK function:
Press [∎] on the CD player.
"EDIT OUT" will scroll across the display from right to left.

Note
Linking cannot be done if the time remaining on the cassette is too short to fit any of the songs on the loaded CD.

Linking programmed tracks 🅰

① Perform step ∎1∎ above, and then press [PROGRAM] on the remote control.
② Select the track number from the remote control with the numeric button(s).
③ Repeat step ② until you have programmed all tracks (max. 24 tracks).
④ Press [▶]. Linking will begin.

∎1∎

▲ OPEN/CLOSE

The time remaining on tape

−LINK C−16:54−

FLAT · · · LINK

∎2∎

○

▶

🅰 (For Australia and N.Z.)   (For others)

PROGRAM

▶

Recording operations

25
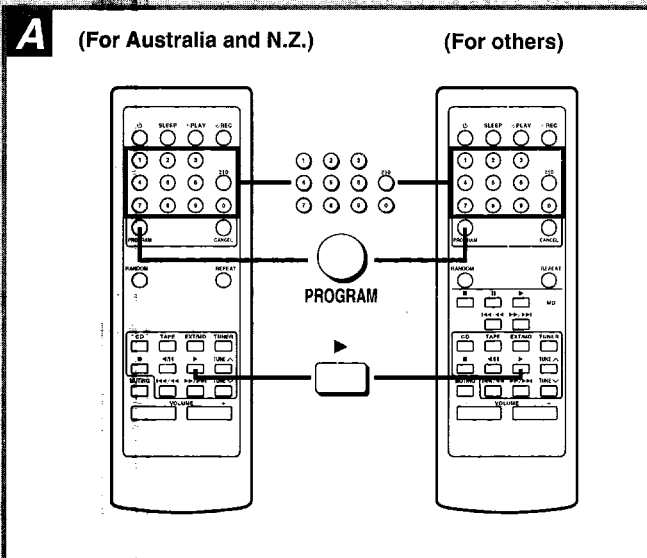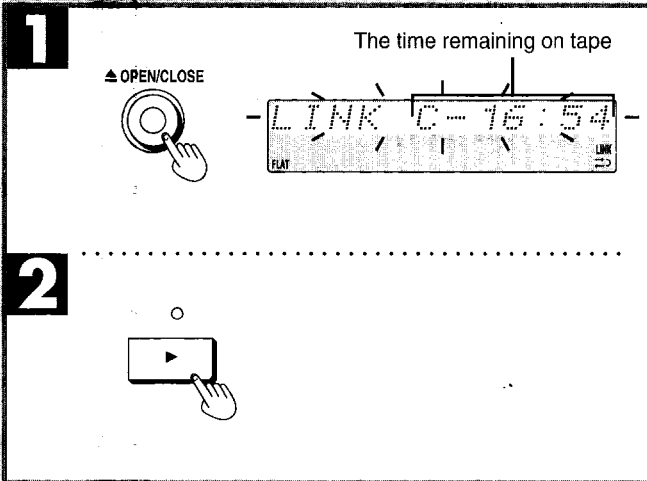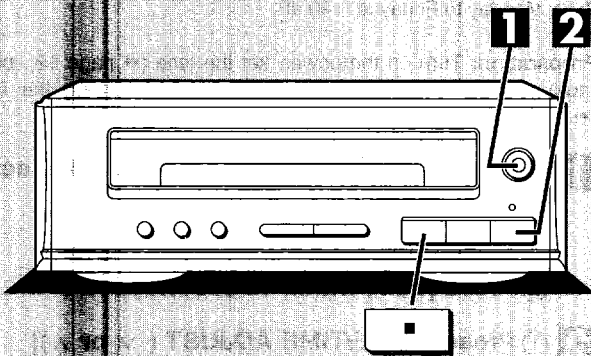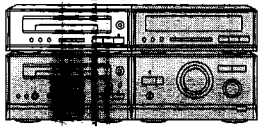
Setting the play timer

This timer starts play of the selected source at the selected time. The example shows settings for a CD to play between 6:30 and 7:40, Monday to Friday at – 40 dB.

Preparation: Turn on the power, set the time (→ page 12), preset radio stations if you want the timer to start playing the radio. (→ page 13)

1 ① Press [CLOCK/TIMER, –DEMO] to select "⊕ PLAY".
CLOCK→⊕ PLAY→⊕ REC
   ↑—Original display←—┘
② Press [SET] within 15 seconds.

2 ① Press [TUNE/TIME ADJUST (∨ or ∧)] to select the day.
"SUN" "MON"–"FRI" "SAT"=One day of the week
"SUN TO SAT"=Everyday from Sunday to Saturday
"MON TO SAT=Everyday from Monday to Saturday
"MON TO FRI"=Everyday from Monday to Friday
"SAT, SUN"=Saturday and Sunday only

② Press [SET].

3 ① Press [TUNE/TIME ADJUST (∨ or ∧)] to select the start time.
② Press [SET].

4 ① Press [TUNE/TIME ADJUST (∨ or ∧)] to select the finish time.
② Press [SET].

5 ① Press [TUNE/TIME ADJUST (∨ or ∧)] to select the source.
CD←→TAPE←→TUNER
↑_____↑

Insert a CD or tape if you select these sources.

② Press [SET].

| If you have selected TUNER |

① Press [TUNE/TIME ADJUST (∨ or ∧)] to select a preset channel.
② Press [SET].

6 ① Press [TUNE/TIME ADJUST (∨ or ∧)] to set the volume you want the unit to start at.
② Press [SET].
The unit is now in the timer standby mode. After displaying the day, start time, finish time, source and volume for 3 seconds each, the panel will return to the original display.
Confirm "⊕ PLAY" is illuminated.

7 Press [⏻/I] to switch the power to standby mode.
Play will start at the preset time with volume increasing gradually up to the level you preset.

To cancel the timer:
Switch on the unit and press [⊕ PLAY] so "⊕ PLAY" goes out.
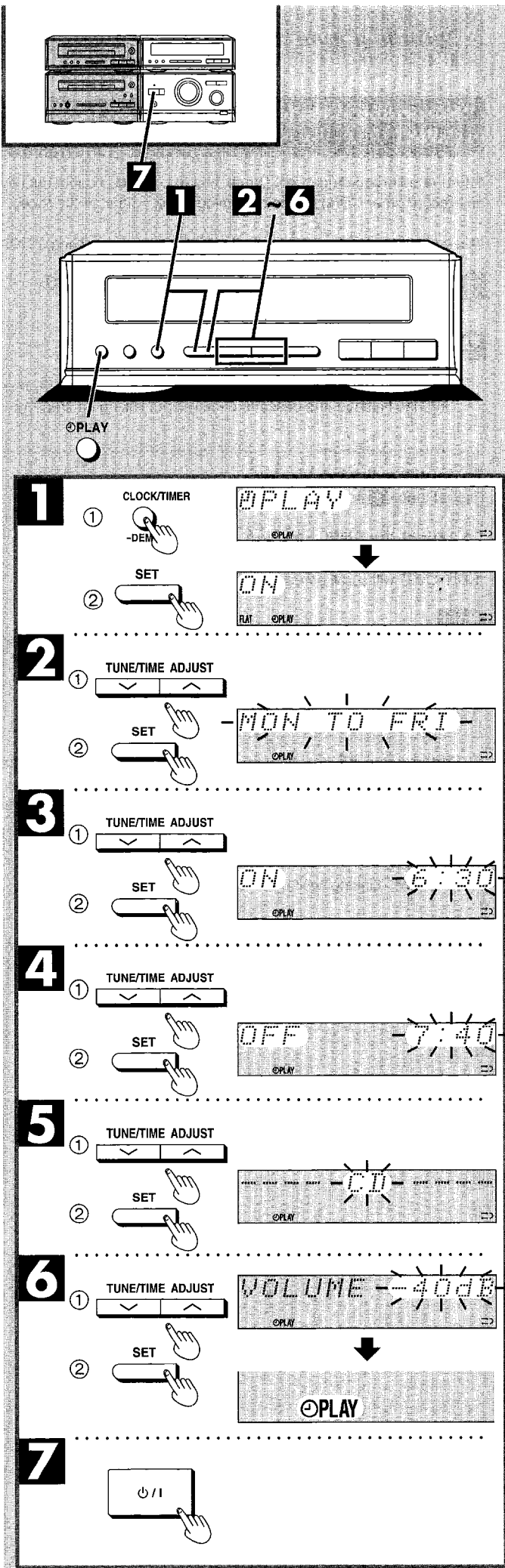
Setting the record timer

This timer records the radio at the set time.
The example shows settings for recording preset channel 3 on Saturday from 18:30 to 19:30.

Preparation: Turn on the power, set the time (→ page 12), preset radio stations (→ page 13), insert a cassette.

1 ①**Press [CLOCK/TIMER,–DEMO] to select "⊙ REC".**
CLOCK→⊙ PLAY→⊙ REC
⌐—Original display←—⌐
②**Press [SET] within 15 seconds.**

2 ①**Press [TUNE/TIME ADJUST (∨ or ∧)] to select the day.**
"SUN" "MON"–"FRI" "SAT"=One day of the week
"SUN TO SAT"=Everyday from Sunday to Saturday
②**Press [SET].**

3 ①**Press [TUNE/TIME ADJUST (∨ or ∧)] to select the start time.**
②**Press [SET].**

4 ①**Press [TUNE/TIME ADJUST (∨ or ∧)] to select the finish time.**
②**Press [SET].**

5 ①**Press [TUNE/TIME ADJUST (∨ or ∧)] to select a preset channel.**
②**Press [SET].**

The unit is now in the timer standby mode. After displaying the day, start time, finish time, and source for 3 seconds each, the panel will return to the original display.
Confirm "⊙ REC" is illuminated.

6 Press [⏻/l] to switch the power to standby mode.
Recording will start 30 seconds before the set time.
The sound will be automatically muted during timer recording.

To cancel the timer:
Switch on the unit and press [⊙ REC] so "⊙ REC" goes out.

Timer operations
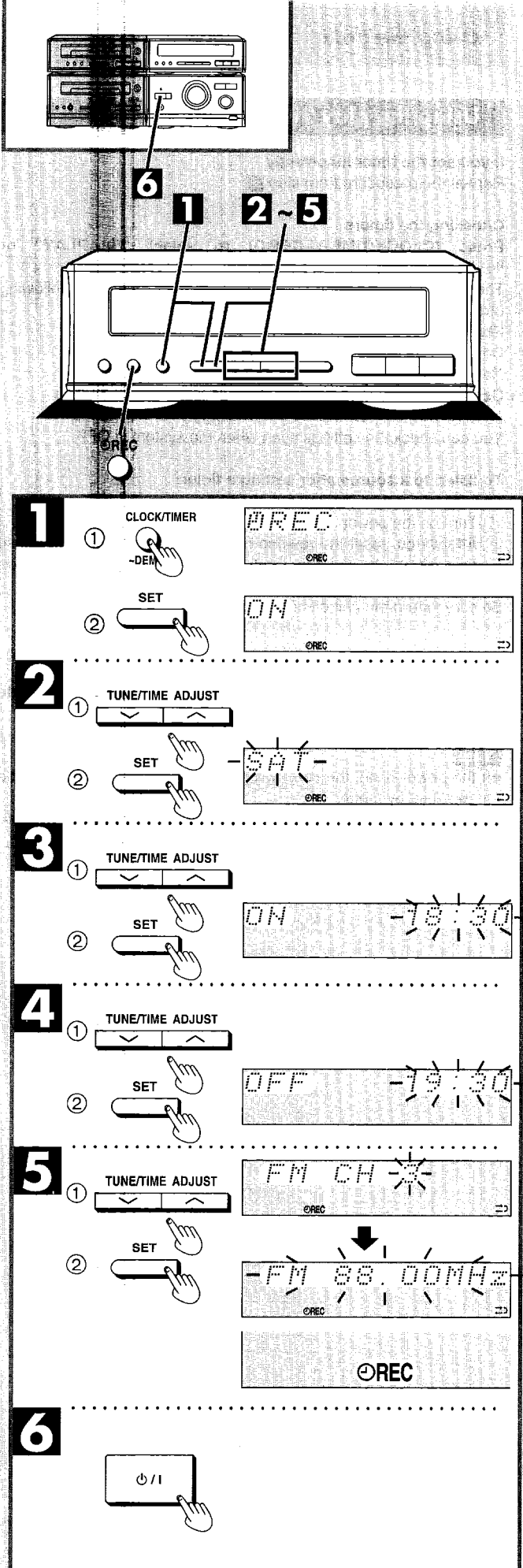
Using the play/record timer

If you set the timer incorrectly
Repeat the procedure from step ■.

Checking the timers
Press [CLOCK/TIMER,–DEMO] to select "⊘ PLAY" or "⊘ REC".
The contents of the timer selected will be displayed in the following order.
Play timer:
Day→Start time→Finish time→Source→Volume
Record timer:
Day→Start time→Finish time→Broadcast station you select

You can check the settings even when the system is OFF.

To listen to a source after setting a timer:
The volume and source are not effected.
1. Turn on the power and play the selected source.
2. Afterwards, reset the reverse mode if necessary, confirm a disc or cassette is inserted, and press [⏻/I] to put the unit on standby.
Be sure to turn the unit off before the set time.

Turning the timer ON/OFF
As long as "⊘ PLAY" or "⊘ REC" is displayed, the timer will come as set.

Note
●If the power is on, the timer will not function. The system must be in the standby mode.
●If you switch the power to the standby mode while the play/record timer is functioning, the OFF time setting will not be activated.

⊘PLAY ⊘REC CLOCK/TIMER
–DEMO
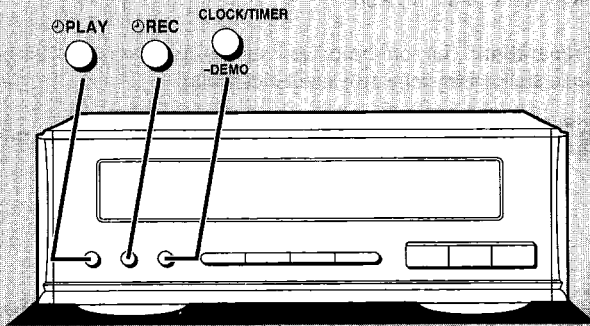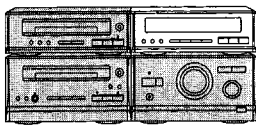
Timer operations
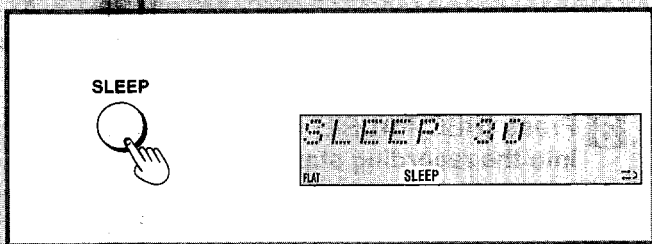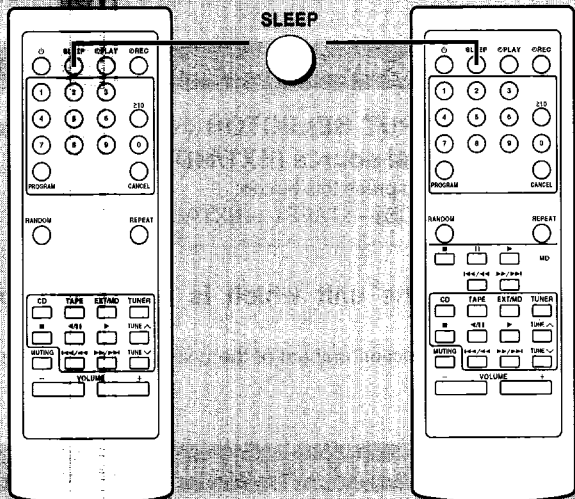
Using the timer

To use the sleep timer

by remote control only

The system will go into standby mode at the set time (max. 2 hours, set every half hour) so you can go to sleep listening to music.

The example shows how to set the system to standby mode after 30 minutes.

While enjoying the desired source:

Press [SLEEP].

Each time you press the button, the display will change as follows;

SLEEP 30→SLEEP 60→SLEEP 90

↑   ↓

SLEEP OFF←——————SLEEP 120

To cancel the sleep timer:

Press [SLEEP] to select "SLEEP OFF".

To confirm the remaining of the sleep timer:

(While sleep timer is functioning:)

Press [SLEEP].

The remaining time will be displayed for 5 seconds.

To change the timer setting while sleep timer is functioning:

1. Press [SLEEP].
   The remaining time will be displayed for 5 seconds.
2. Press [SLEEP] again to select the desired time.

Using two timers together

You can use the sleep timer, play timer, and record timer together.

Be aware that the sleep timer always has precedence. Ensure the times do not overlap.

Timer operations

29

A

1

2 **3** **4**

1
INPUT SELECTOR
∨ ∧

EXT/MD

FLAT

2
DOLBY NR   REV MODE

3
REC PAUSE

4
◄   ►

B
PHONES
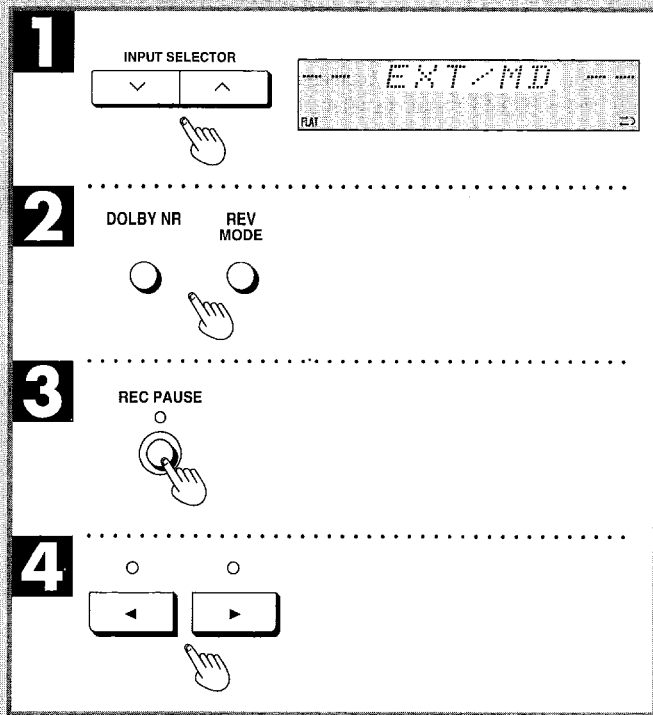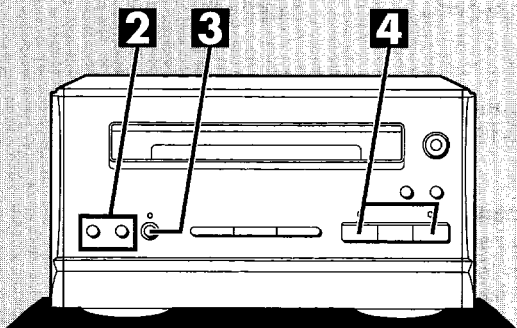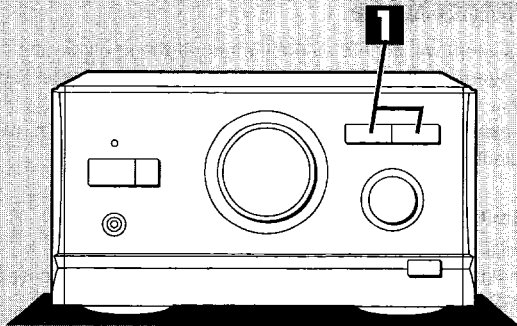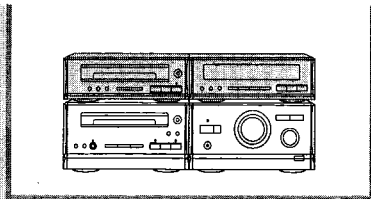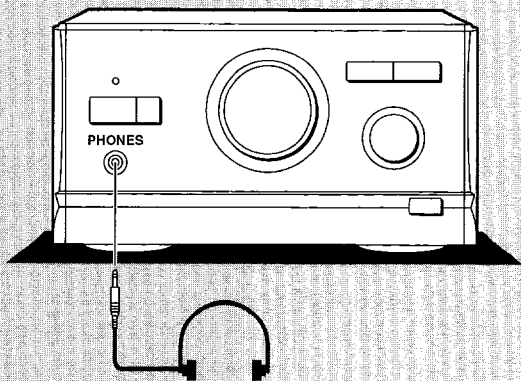
Listening to an external source

1 Press [INPUT SELECTOR (∨ or ∧)] to select the external source (EXT/MD).
Each time you press this button;
TUNER↔CD↔TAPE↔EXT/MD

2 Operate the unit which is connected to the system.
See the instruction manual of the unit concerned for the operation.

Recording from an external source **A**

1 Press [INPUT SELECTOR (∨ or ∧)] to select the external source (EXT/MD).

2 Select the Dolby noise reduction and reverse mode.

3 Press [REC PAUSE] to put the cassette deck into the recording standby mode.

4 Press [◄] or [►] to start recording.

5 Start playing the source to be recorded.
See the instruction manual of the unit concerned for the operation.

To stop recording:
Press [■] on the cassette deck.

Recording on an external unit

First, select the source with INPUT SELECTOR.
Start recording on the external unit, and then start playing the source to be recorded.

To use headphones **B**

●Before connecting, reduce the volume level.
●Avoid listening for prolonged periods of time to prevent hearing damage.
●Plug type: 3.5 mm stereo

Reference

(For Australia and N.Z.)   (For others)

A

MUTING

-MUTING ON-
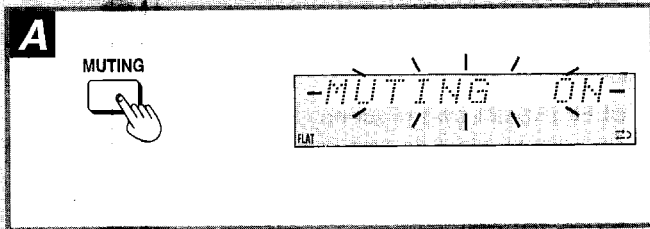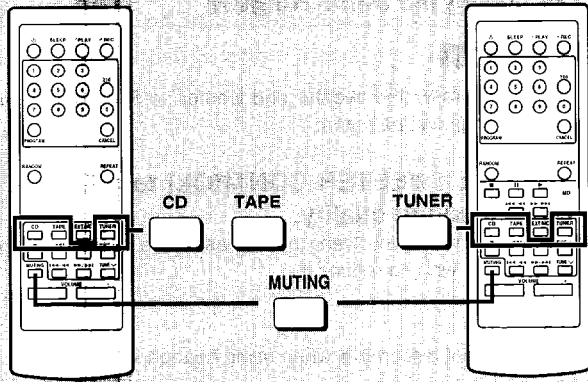
One-touch play

by remote control only

When the system is on standby, playing starts automatically when you press one of the following buttons.

TUNER	The radio station heard previously is tuned in.
CD	Play starts from track 1 of the CD .
TAPE	The tape starts playing in the previously selected direction.

To mute the volume   **A**

This feature is convenient when you have a telephone call, etc.

by remote control only

Press [MUTING].
"MUTING ON" flashes on the display.

To cancel:
Press [MUTING] once again. ("MUTING OFF" lights up.)

To cancel from the amplifier, reduce the volume to the minimum position (−− dB) and then reset to the desired volume.
Muting is also canceled if you turn the unit OFF.

Reference

A **B**

SC-HD501

A
FINE TWEETER CONTROL
MIN   MAX

B
BLFS
BLFS HIGH

C

SC-HD301

BASS
– +
TREBLE
– +

BASS
– +
BASS+1
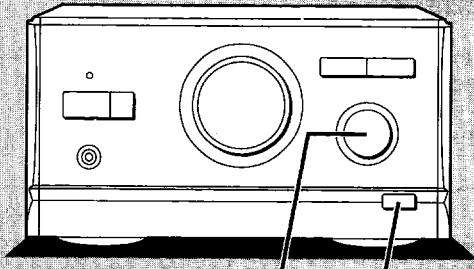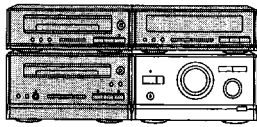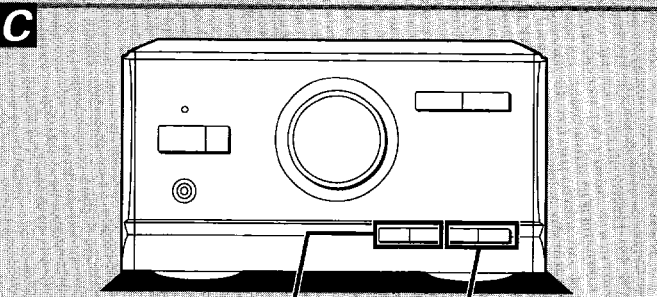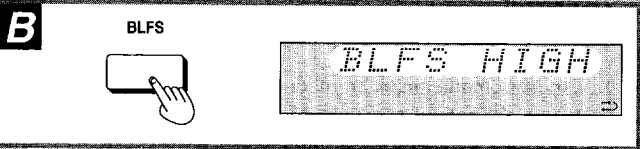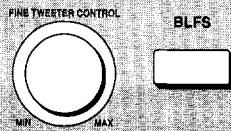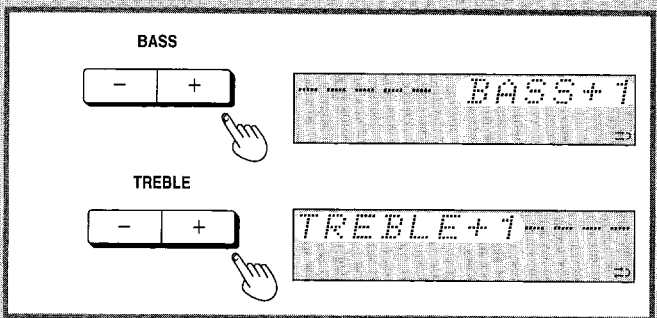
TREBLE
– +
TREBLE+1

Changing the tone

Adjusting the treble range A

SC-HD501 only

This unit separates the tweeter and woofer so fine adjustments to the treble range can be made.

Turn [FINE TWEETER CONTROL] to adjust to the preferred sound quality.
Set it to MAX when you want to emphasize the treble range, or to MIN when you want to reduce it.

Note
This effect is not discernible when using headphones.

Emphasizing low frequency sounds B

SC-HD501 only

BLFS (Brisk Low Frequency Sound)
This effect increases the bass range to give music more power without interfering with the vocal range.

Press [BLFS].
Each time you press the button;
BLFS HIGH→BLFS LOW→BLFS OFF (FLAT)
↑_____|

To cancel:
Press [BLFS] to select "BLFS OFF".("FLAT" will light.)

To adjust the tone quality C

SC-HD301 only

The level can be adjusted between –3 to +3.
Press [BASS (–, +)] to adjust the low-frequency sound.
Press [TREBLE (–, +)] to adjust the high-frequency sound.

To cancel:
Press [BASS (–, +)] or [TREBLE (–, +)] to select "BASS 0" or "TREBLE 0".("FLAT" will light.)

A

B

How to hold CDs

Do not touch the recorded surface.

C

How to clean CDs

Wipe from inside outward.

D

How to take up tape slack

E

Side A

Tab for side "B"   Tab for side "A"

To re-record

Normal tape   Hi-position tape

Detection hole

Concerning CDs

With this system, you can only play CDs with these marks.
Do not use irregular shape CDs. CDs of this sort can damage the unit. **A**
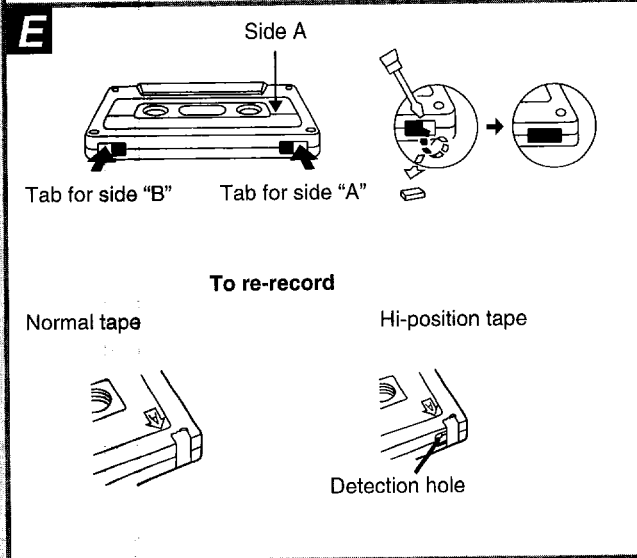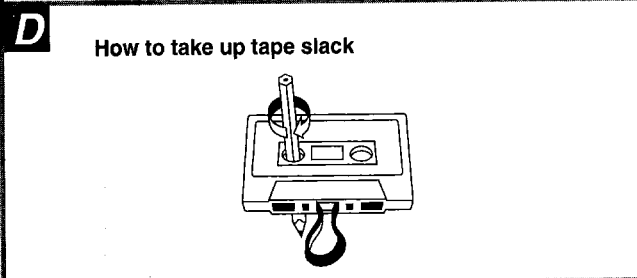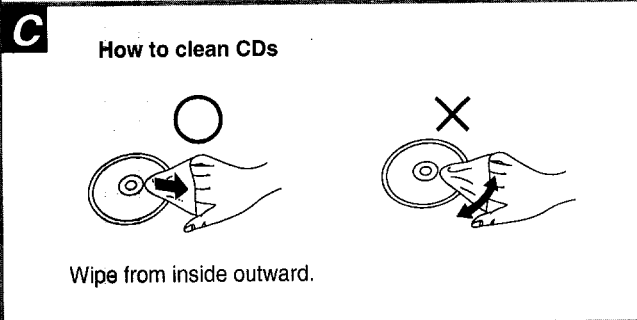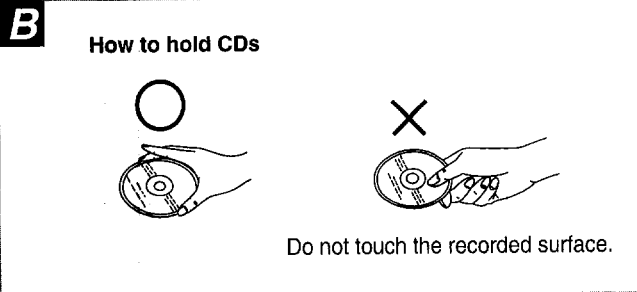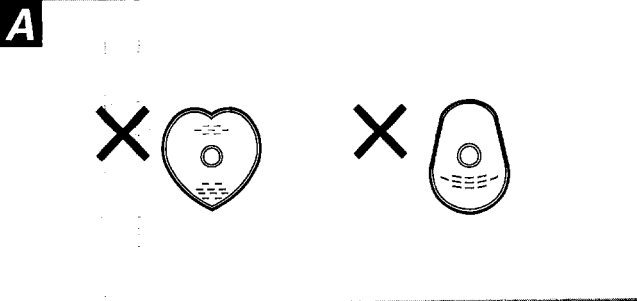
Handling precautions B-C

- If you are taking the CD from a cold to a warm environment, moisture may form on the CD. Wipe this off with a soft, dry, lint-free cloth before using the CD.
- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Do not attach labels or stickers to CDs. (Do not use CDs with exposed adhesive from tape or left over peeled off stickers.)
- Do not use scratch-proof protectors or covers other than those specified for use with this system.

Storage precautions

Be sure to store CDs in their cases to protect them from dust, scratches, and warping.

Do not place or store CDs in the following places;
- Locations exposed to direct sunlight
- Humid or dusty locations
- Locations directly exposed to a heat vent or heating appliance
- In the glove compartment or on the rear deck of an automobile

Concerning cassette tapes

Selection of cassette tapes

Tapes can get caught on the capstans. Use caution with the following types of tapes.

Cassette tapes exceeding 100 minutes
Tapes are made of a thin film material. Do not repeatedly advance and stop the tape, fast-forward it or rewind it.

Endless-tapes
For this unit, it is recommended to use tapes which are appropriate to the auto reverse mechanism.

Always read the instructions provided with your tapes.

Tape slack D

Tape slack may cause the tape to break.

Erasure prevention E

Use a screwdriver or similar object to break out the tab.

To re-record on a protected cassette:
Cover the hole with adhesive tape.
Do not cover the detection hole on hi-position tapes.

Storage precautions

Do not place or store tapes in the following places;
- In high temperature (35°C or higher) or high humidity (80% or higher) areas
- In a strong magnetic field (near a speaker, on top of a TV, etc.) This can erase a recording.
- Locations exposed to direct sunlight

Reference

33

Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.
If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to the directory of Authorized Service Centers (enclosed with this unit) to locate a convenient service center, or consult your dealer for instructions.

Reference pages are given as black circled numbers.

Problem	Probable cause(s)	Suggested remedy

Common problems

Problem	Probable cause(s)	Suggested remedy
The power is on but there is no sound.	Is the volume set to the minimum level?	Adjust the volume. ⓮
Sounds are unfixed.	Are the (+) and (−) speaker cords connected to the wrong terminals?	Connect the cords to the correct terminals. ❻, ❼
Left and right sounds are reversed.	Are the left and right speaker cords connected to the opposite terminals?	Connect the cords to the corresponding terminals. ❻, ❼
Humming is heard while playing.	A power cord or fluorescent lamp is located in the vicinity of cables.	Keep electric appliances away from the stereo. Try plugging the cord in another way.
Only one speaker is emitting sound.	One of the wires of the speaker cord is disconnected.	Connect the speaker cord correctly. ❻, ❼
There is no sound when a source is being played.	The (+) and (−) wire of the speaker cords are shorted.	Switch the system to the standby mode, and reconnect the speaker cords so that they are not shorted. Then switch on the power.
"ERROR" appears on the display.	Wrong operation has been done.	Operate the unit correctly by following the operating instructions.
"U70" appears on the display.	Flat cables are not connected steadily.	Connect the flat cable steadily. ❻, ❼ When the "U70" display is not cleared after the flat cable have been connected properly, the unit is damaged. Consult your dealer.
"F61" appears on the display.	There is a problem with the amplifier.	Consult your dealer.
ECO mode is on but the display panel still lights up.	DEMO mode is on.	Turn DEMO mode off. ⓫

While listening to FM broadcasts

Problem	Probable cause(s)	Suggested remedy
There is a "rushing noise" during a stereo broadcast which is not audible during a monaural broadcast.	The transmitting station is a long distance away.	If you are using an indoor antenna, change to an outdoor antenna. ❽
You hear excessive noise during a stereo broadcast, and occasionally the sound disappears.	The installation location and orientation of the antenna are unsuitable.	
The stereo indicator flickers and does not light completely.	The transmitting station is a long distance away.	
	The power of the TV set or VCR is ON.	Try switching off the TV set or VCR.
The sound during a stereo broadcast is highly distorted.	There is a building or mountain nearby. [Distortion is caused by interference between the signal from the transmitting station (direct wave) and the signal reflected from the building or mountain (reflected wave).]	Use a high-grade outdoor antenna, and install it in a good location, height, and orientation for reception. ❽

When there is a television set nearby

Problem	Probable cause(s)	Suggested remedy
The picture on the TV disappears or stripes appear on the screen.	The location and orientation of the antenna are incorrect.	If you are using an indoor antenna, change to an outdoor antenna.
	The TV antenna wire is too close to the system.	Separate the antenna wire of the TV set from the system.

Problem	Probable cause(s)	Suggested remedy

While listening to AM broadcasts

You hear an unusual beat sound.	You are using the system at the same time you are playing a TV set.	Switch off the TV set, or use the system further away from it.
You hear a low-frequency hum.	The antenna wire is too close to the flat cables/power cord.	Move the antenna away from the flat cables/power cord.
	Is the flat cable touching the AM loop antenna?	Separate them. ❻, ❼
The correct frequency can not be received.	Frequency step is set to 10 kHz.	Hold down [FM/AM] or [AM] for about 10 seconds (change frequency step to 9 kHz).

While listening to tapes

Sound is low, intermittent, or poor quality, noisy, scratchy, or unsteady.	Heads are dirty.	Clean the heads. ❸❺
	Dolby noise reduction is set in the wrong position.	Set it to match the Dolby NR recording mode. ❶❾
The deck does not enter the recording mode.	The erase-prevention tabs are removed from the cassette.	Attach tape to cover the space left by removal of the erase-prevention tabs. ❸❸

While listening to compact discs

The display will not show the correct indication. Disc play does not start when you press the play button.	The disc is loaded upside down.	Reload the disc. ❶❻
	The disc is dirty.	Wipe the disc with a soft cloth. ❸❸
	The disc is scratched.	Replace the disc with a new one.
	The disc is badly warped.	
	The disc is a nonstandard one.	Replace the disc with a different one.
	There is condensation inside the CD the player.	Wait for 60 minutes before using the CD player.

During one-touch editing

"NO TAPE" appears on the display.	No tape is loaded into deck.	Load a tape. ❶❾
"CHANGE TAPE" appears on the display.	The protector tab on the tape is broken.	Cover the tab's hole with adhesive tape or use another tape. ❸❸

While using the remote control

The system cannot be operated with the remote control.	The batteries are installed in the reverse polarity.	Reinsert the batteries in the correct polarity. ❺
	The batteries are worn.	Replace the batteries with new batteries. ❺

The servicer will require all components to service your system. Therefore, should service ever be necessary, be sure to bring the entire system.

Maintenance

If the surfaces are dirty

To clean this unit, wipe with a soft, dry cloth.
If the surfaces are extremely dirty, use a soft cloth dipped in a soap-and-water solution or a weak detergent solution.

●Never use alcohol, paint thinner or benzine to clean this unit.
●Before using chemically impregnated cloth, read the instructions that came with the cloth carefully.

For a cleaner crisper sound

We recommend that you periodically clean the heads by the cleaning tape (sold separately).

Reference

TUNER

■ Pre-amplifier section
Input sensitivity/impedance
EXT/MD   300 mV/15 kΩ
Output level/impedance
EXT/MD   250 mV/1.5 kΩ

■ FM tuner section
Frequency range   87.50–108.00 MHz
                           (0.05 MHz steps)
Antenna terminal(s)   75Ω (unbalanced)

■ AM tuner section
Frequency range
        522–1629 kHz (9 kHz steps)
        520–1630 kHz (10 kHz steps)

■ Timer section
Clock   Quartz-lock type
Function   24-hour programmable;
         Play timer (1 time or everyday),
         Rec timer (1 time or everyday),
         Sleep (120 min, 30 min intervals)

■ General
Dimensions (W×H×D)
     ST-HD501   196×67×235 mm
     ST-HD301   186×67×235 mm
Weight   ST-HD501   1.0 kg
             ST-HD301   0.9 kg

AMPLIFIER
SE-HD501
■ Amplifier section (Low frequency side)
Power output
   DIN 1 kHz, THD 1%, both channels
   driven   2×12 W (6Ω)
   RMS 1 kHz, THD 10%, both channels
   driven   2×15 W (6Ω)
Total harmonic distortion
   Half power at 1 kHz   0.09% (6Ω)
S/N (rated power)   75 dB
Load impedance   6Ω

■ Amplifier section (High frequency side)
Power output
   DIN 10 kHz, THD 1%, both channels
   driven   2×5 W (6Ω)
   RMS 10 kHz, THD 10%, both channels
   driven   2×8 W (6Ω)
S/N (rated power)   75 dB
Load impedance   6Ω

■ General
Headphone: Jack type   3.5 mm stereo
        Load impedance   16 – 32Ω
Power supply
   For United Kingdom
             AC 230–240 V, 50 Hz
   For others
             AC 230 V, 50 Hz
Power consumption   73 W
   Standby
     Normal mode   9 W
     Eco mode   0.8 W
Dimensions (W×H×D)
             196×104×270 mm
Weight   3.4 kg

AMPLIFIER
SE-HD301
■ Amplifier section
Power output
   DIN 1 kHz, THD 1%, both channels
   driven   2×17 W (6Ω)
   RMS 1 kHz, THD 10%, both channels
   driven   2×20 W (6Ω)
Total harmonic distortion
   Half power at 1 kHz   0.09% (6Ω)
Frequency responce
       50 Hz–20 kHz (+1 dB, –3 dB)
S/N (rated power)   75 dB
Load impedance   6Ω

■ General
Headphone: Jack type   3.5 mm stereo
        Load impedance   16 – 32Ω
Power supply
   For United Kingdom
             AC 230–240 V, 50 Hz
   For Continental Europe
             AC 230 V, 50 Hz
Power consumption   67 W
   Standby
     Normal mode   9 W
     Eco mode   0.8 W
Dimensions (W×H×D)
             186×104×270 mm
Weight   2.9 kg

CD PLAYER
Digital output terminal   Optical x 1
■ Audio
DA converter   1 bit 2 DAC MASH
■ Format
Sampling frequency   44.1 kHz
■ Pickup
Wavelength   780 nm
■ General
Dimensions (W×H×D)
     SL-HD501   196×67×229 mm
     SL-HD301   186×67×229 mm
Weight   SL-HD501   1.2 kg
             SL-HD301   1.1 kg

CASSETTE DECK
Track system   4 track, 2 channel stereo
Frequency response (Dolby NR off)
   (Rec/Play)
     TYPE I (NORMAL)   30 Hz–16 kHz (DIN)
     TYPE II (HIGH)   30 Hz–16 kHz (DIN)
     TYPE IV (METAL)   30 Hz–16 kHz (DIN)
S/N (Signal level=max recording level,
   TYPE II type tape)
   NR off   56 dB (A weighted)
   Dolby B NR on   64 dB (A weighted)
Motors
   Capstan drive   DC servo motor
   Reel table drive   DC motor
Fast forward and rewind times
        Approx. 52 seconds with
        C-60 cassette tape
Wow and flutter   0.1% (WRMS)

■ General
Dimensions (W×H×D)
     RS-HD501   196×104×221 mm
     RS-HD301   186×104×221 mm
Weight   RS-HD501   1.5 kg
             RS-HD301   1.4 kg

SPEAKER SYSTEM
SB-HD501
Type   2 way, 2 speaker, bass-reflex system
Speaker(s)
   Woofer: 12 cm cone type
   Tweeter: 2.5 cm semi-dome type
Impedance   6Ω
Input power
   HIGH   30 W (Music), 15 W (DIN)
   LOW   60 W (Music), 30 W (DIN)
Output sound pressure level
             86 dB/W (1.0 m)
Cross over frequency   5 kHz
Frequency range   50 Hz–46 kHz (−16 dB)
            60 Hz–42 kHz (−10 dB)

■ General
Dimensions (W×H×D)   175×287×225 mm
Weight   3.9 kg

SPEAKER SYSTEM
SB-HD301
Type   2 way, 2 speaker, bass-reflex system
Speaker(s)
   Woofer: 12 cm cone type
   Tweeter: 6 cm cone type
Impedance   6Ω
Input power   60 W (Music), 30 W (DIN)
Output sound pressure level
             85 dB/W (1.0 m)
Cross over frequency   5 kHz
Frequency range   45 Hz–30 kHz (−16 dB)
            55 Hz–26 kHz (−10 dB)

■ General
Dimensions (W×H×D)   190×297×216 mm
Weight   3.6 kg

Notes:
1. Specifications are subject to change without notice. Weight and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

(En)