

KENWOOD

UD COMPONENT SYSTEM/COMPACT HI-FI SYSTEM

UD-502 UD-552

INSTRUCTION MANUAL

KENWOOD CORPORATION

This manual contains instructions for two models. There are differences in some of the features (functions). Refer to the descriptions of your model respectively.

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on the product.

Model _____ Serial Number _____

Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.

Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.

We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

Accessories

FM indoor antenna (1)



Speaker cord (2)



Antenna adaptor (1)
(For U.K. and Europe)



AM loop antenna (1)



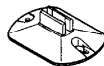
Remote control unit ... (1)



AC plug adaptor (1)
(Except for the U.S.A.,
Canada, Europe, U.K. and
Australia)



Loop antenna stand ... (1)



Batteries (R6/AA) (2)



For the unit with a Euro-
pean AC plug in areas other
than Europe.

COMPACT
disc
DIGITAL AUDIO

NOTE

Do not transport the system with a CD left in it.

Before applying power

Caution: Read this page carefully to ensure safe operation.

UD-502/552 (En)

2 Before applying power

Units are designed for operation as follows.

U.S.A. and Canada 120 V only
Australia 240 V only

U.K. 240 V only
Europe (Except for U.K.) 230 V only
*Other countries 110-120 / 220 / 230-240 V switchable

For the United Kingdom

Factory fitted moulded mains plug

1. The mains plug contains a fuse. For replacement, use only a 13-Amp ASTA-approved (BS1362) fuse.
2. The fuse cover must be refitted when replacing the fuse in the moulded plug.
3. Do not cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or adapter, or consult your dealer.
If nonetheless the mains plug is cut off, remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

Blue :Neutral
Brown:Live

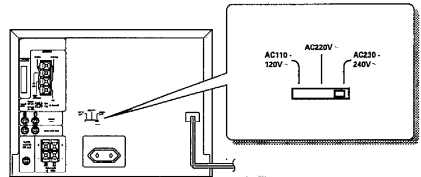
Do not connect those leads to the earth terminal of a three-pin plug.

*AC voltage selection

The AC voltage selector switch on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

AC voltage selector switch

Move switch lever to match your line voltage with a small screwdriver or other pointed tool.







Note:

Our warranty does not cover damage caused by excessive line voltage due to improper setting of the AC voltage selector switch.

Safety precautions

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p>CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN</p> </div> 	<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>
		<p>THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.</p>
		<p>THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.</p>

The marking of products using lasers (Except for some areas)

**CLASS 1
LASER PRODUCT**

The label is attached to the rear panel and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

Easy operation

Almost all operations of the CD player, tuner and cassette decks are available using the 9 self-illuminating basic operation keys.

When a source is selected with the input selector, the selected source component starts to play (receive) automatically (except for the AUX source).

Five common operation keys control several components depending on the color they are illuminated. They can be used to control the CD player when lit in green, tuner when lit in red and cassette deck when lit in amber.



7-Bank CD (UD-552 only)

The CD player of the UD-552 can hold up to 7 discs at a time. A convenient feature for enjoying long hours of CD playback, etc.



Environmental Sound System

This function allows to play two sources simultaneously. Mix a prerecorded environmental sound with the music of the source you like; the result is a completely new world of music entertainment.



Easy CD edit recording with Computer-Controlled Recording System (CCRS)

A variety of CD edit recording functions are available for desired type of recording according to purpose.

- **Timed edit recording:** Recording of CD tracks so that no track is interrupted in the middle.
- **AI edit recording:** Recording of all tracks on CD when the total playing time of CD is longer than the recording time of tape.
- **One-touch editing:** Recording of desired tracks with one-touch operations.



Versatile tone and sound field adjustment

The tone can be selected according to the genre of the music played: POP, ROCK, JAZZ, CLASSIC.

The sound field can also be selected as desired: ARENA, JAZZ CLUB, STADIUM, HIT MASTER.

The DEPTH function controlling the depth of sound field is also available.



Convenient timer functions

In addition to the possibility of storing up to 2 timer programs in memory, the following functions are available.

- **AI timer:** When the power is turned ON by the timer, the sound level increases gradually.
- **Sleep timer:** Useful when you want to go asleep while listening to music.

Long play mode for relaxed sound entertainment

The long play mode automatically sets a tone which does not fatigue the listener even after prolonged listening and selects the mode providing the longest playing time with the source component being selected. Use this mode when you need sound for relaxation, for example as background music.

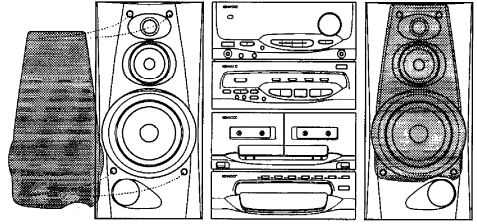
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System connection

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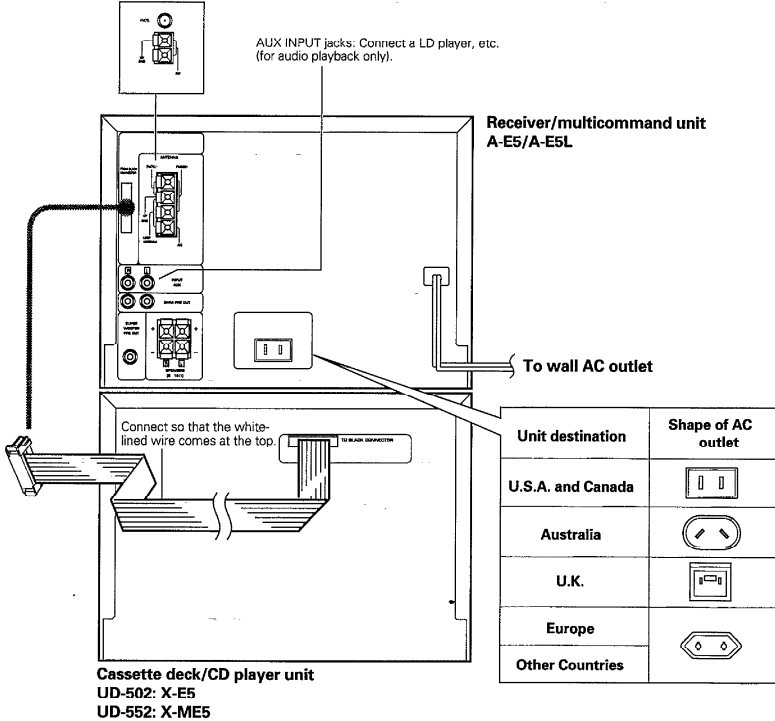
Do not plug the power cord into the power outlet until all of the required connections have been made.

- In case an associated system component is connected, also read the instruction manual of the component.
- Align the front panels of the unit flush.

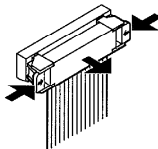


UD-552

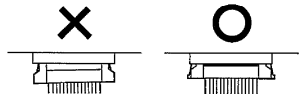
(For U.K. and Europe)



Connection of parallel cord



- When connecting the parallel cord, insert the plug straight into the connector until it clicks to lock them securely.
- When connecting the parallel cord, the wire with white line should come to the up side end.
- When disconnecting the parallel cord, push in the two sides of the plug and pull it straight out.



Notes



1. Be sure to insert all connection cords securely. If their connections are imperfect, the sound may not produced or noise may interfere.
2. Before plugging or unplugging a connection cord, be sure to unplug the power cord from the wall AC outlet. If connection cords are plugged or unplugged with the power cord left plugged in, malfunction or damage may result.
3. Do not connect up a power source which is larger than that indicated on the socket at rear of the unit.

System connection

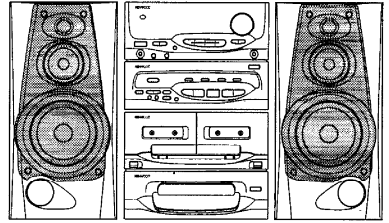
UD-502 / 552 (En)

Operation to reset

The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the cord is unplugged while power is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

- Please note that resetting the microcomputer clears the contents stored in it returns it to the condition when it left factory.

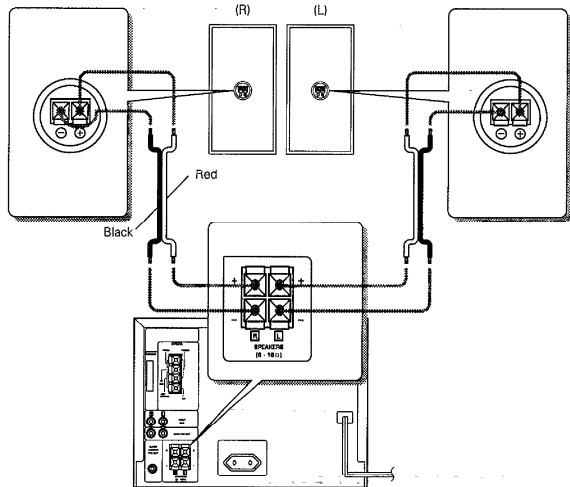
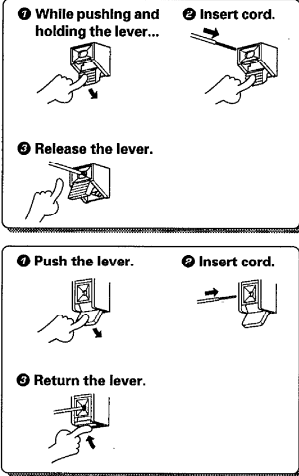
Unplug the power cord from the power socket and, while holding the ENTER key depressed, plug the power cord into the socket again.



UD-502

Connection of speakers

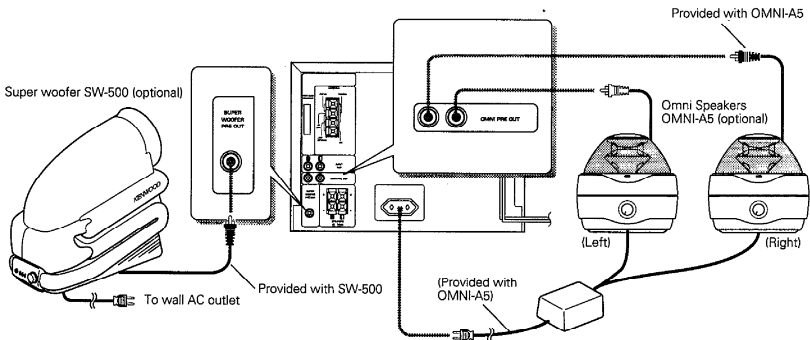
Speaker rear panels



Receiver unit

- Never short-circuit the + and - speaker cords.
- If the left and right speaker connections or the + and - polarity are inverted, the sound will be unnatural with unclear positioning of musical instruments, etc. Be sure to connect them without mistake.

Connection of optional speakers



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Connection of antenna terminal

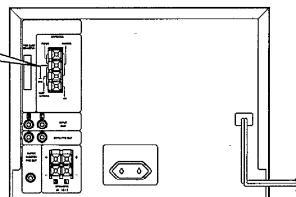
① Push the lever.



② Insert cord.



③ Return the lever.



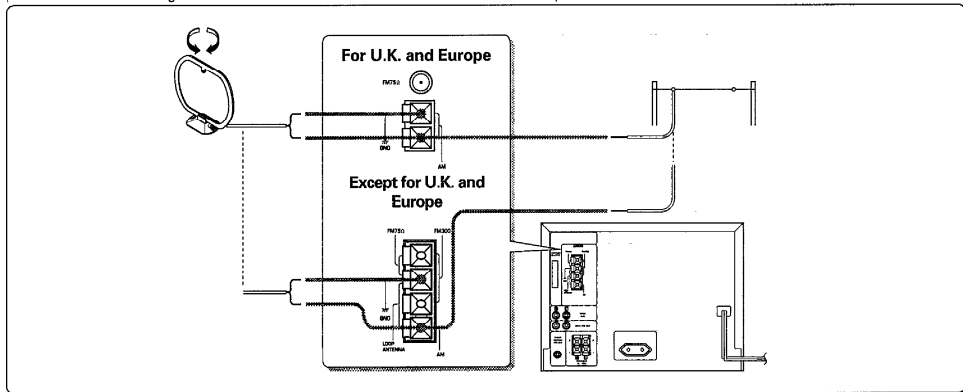
Connection of AM antenna

Connection of AM loop antenna

The antenna provided is for indoor use. Place it as far as possible from this system, TV, speaker cords and power cord and set to the orientation which provides the best receiving condition.

Connection of AM outdoor antenna

If the reception condition is poor with the loop antenna alone, connect a vinyl coated wire of more than 6 m (20 ft) and extend it outdoors while leaving the loop antenna connected.



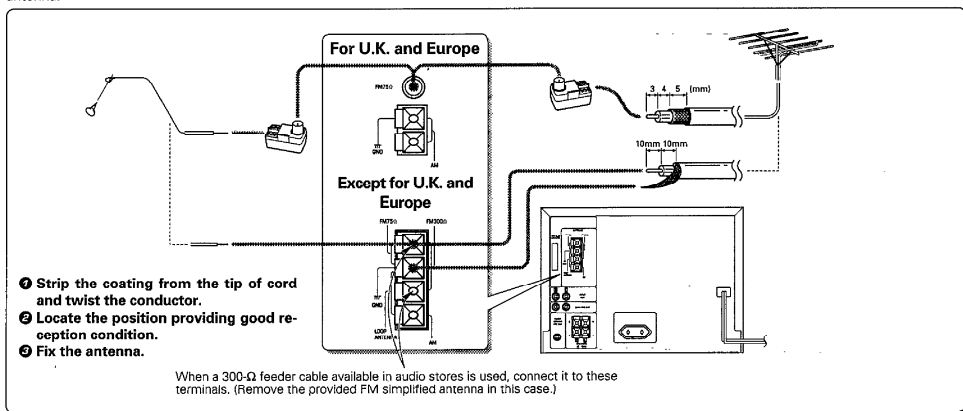
Connection of FM antenna

Connection of FM simplified antenna

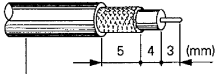

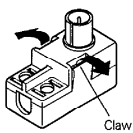
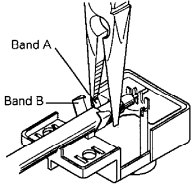
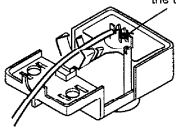
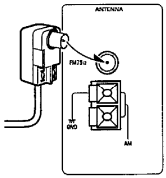
The antenna provided is designed for temporary indoor use. For stable reception, it is recommended to install an outdoor antenna as soon as possible. Once an outdoor antenna is connected, remove the indoor antenna.

Connection of FM outdoor antenna

Lead the antenna cable indoors using a 75 Ω coaxial cable and connect it to the FM 75 Ω connector.



Connection of antenna adapter (U. K. and Europe only)

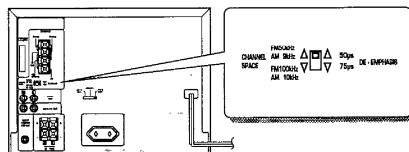
<p>① Prepare the cable.</p> <p>When coaxial cable is used</p> <p>Other shield (Braid) Inner conductor</p>  <p>RG-6 (5C-2V) or RG-59 (3C-2V)</p>	<p>When the provided simplified antenna is used</p>  <p>Remove the vinyl coating and twist conductors.</p>	<p>② Open the antenna adaptor.</p>  <p>Claw</p> <p>Open the claws with the fingers to release the lock and pull out the cover.</p>
<p>③ Attach the cable and close the cover.</p> <p>When coaxial cable is used</p>  <p>Band A Band B</p> <p>Insert the cable into the slit on the clip. Fasten bands A and B using a pair of pliers.</p>	<p>When the provided simplified antenna is used</p>  <p>Wrap around the terminal.</p> <p>Insert the antenna cord tip into the slit on the hardware and wrap the cord around it.</p>	<p>④ Connect the adaptor to the antenna terminal.</p>  <p>ANTENNA</p> <p>FM/AM</p> <p>FM</p> <p>AM</p>

FM DE-EMPHASIS/CHANNEL SPACE switch

(Except for the U.S.A., Canada, Europe, U.K. and Australia)

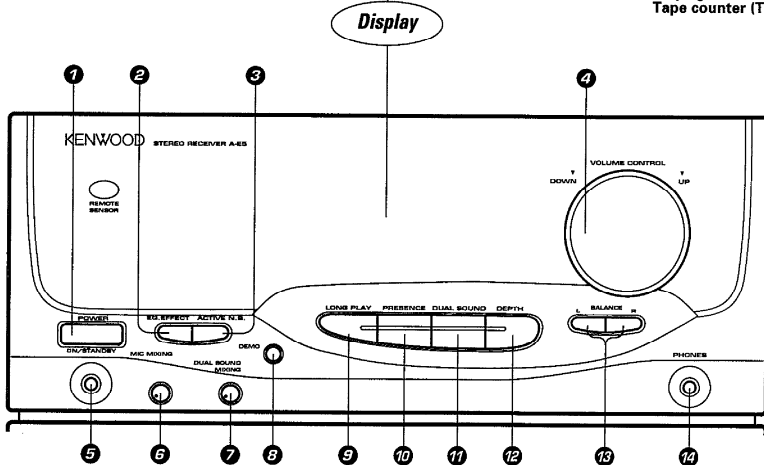
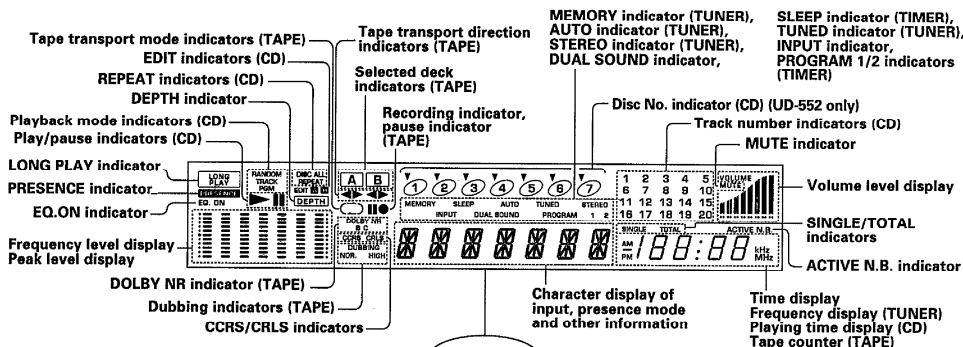
The FM DE-EMPHASIS/CHANNEL SPACE switch on the rear panel is set to the correct setting that prevails in the area to which the unit is shipped. However, if the FM DE-EMPHASIS/CHANNEL SPACE setting is not matched to the area where the unit is to be used; for instance, when you move from area 1 to area 2 or vice versa, desired reception of AM/FM broadcasts is not expected. In this case, change the FM DE-EMPHASIS/CHANNEL SPACE setting in accordance with the area corresponding to the table. The FM DE-EMPHASIS is switched over at the same time.

- When changing the setting of the FM DE-EMPHASIS/CHANNEL SPACE switch, first disconnect the power cord, then reset the channel space switch, connect the power cord again, and turn the power on.



	Area	CHANNEL SPACE freq.	FM DE-EMPHASIS
1	U.S.A., Canada, and South American countries	FM: 100kHz AM: 10kHz	75μs
2	Other countries	FM: 50kHz AM: 9kHz	50μs

Receiver unit



1 POWER key

Press to turn the power of the system ON/OFF.

2 EQ. EFFECT key

Press to select an equalizer curve.

3 ACTIVE N.B. key

Press for presence play.

4 VOLUME CONTROL knob

Press for Environmental Sound play or presence mode play.

5 MIC jack

Press to add a depth in the sound field.

6 MIC MIXING knob

Adjust the volume balance between the environmental sound and music.

7 DUAL SOUND MIXING knob

Adjust the volume balance between the left and right volume levels.

8 DEMO key

Insert headphones into this jack.

Press to start demonstration.

9 LONG PLAY mode key

Press to let the sound play for long hours.

10 PRESENCE key

Press for presence play.

11 DUAL SOUND key

Press for Environmental Sound play or presence mode play.

12 DEPTH key

Press to add a depth in the sound field.

13 BALANCE keys (LEFT, RIGHT)

Press to adjust the balance between the left and right volume levels.

14 PHONES jack

Insert headphones into this jack.

[55]

[16]

[62]

[62]

[39]

[16]

[39]

[54]

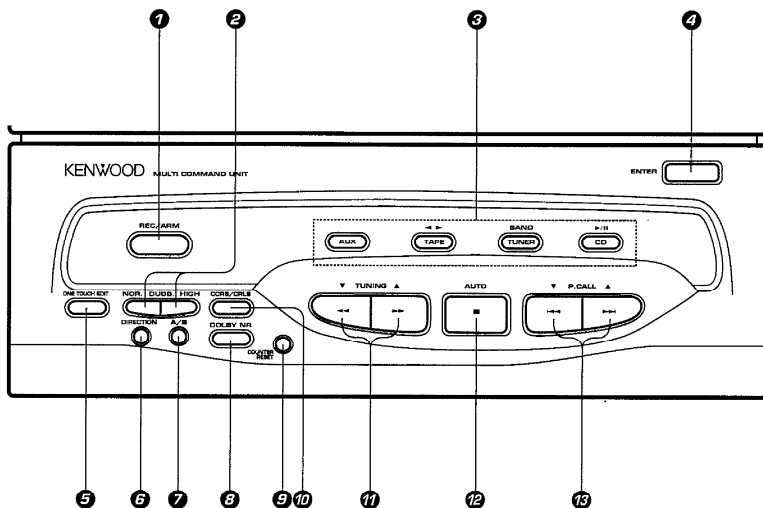
[62]

[56]

[39]

[16]

Multi command unit



1 REC/ARM key

2 DUBB. keys (HIGH, NOR.)

Press for tape dubbing.

3 Input selector keys

CD: Functions as the play/pause key.

TAPE: Functions as the play key.

TUNER: Pressing during playback changes the tape transport direction.

AUX: Functions as the BAND key.

AUX: Press to play the AUX input source.

4 ENTER key

5 ONE TOUCH EDIT key

Press for simplified CD recording.

6 DIRECTION switch key

7 Deck switch keys (A/B)

Press to select the deck to be operated.

8 DOLBY NR key

- [40]

- [41]

- [14]

- [37] - [63]

- [31]

- [31]

9 COUNTER RESET key

Press to reset the tape counter to 0000.

10 CCRS/CRLS key

- [40] - [42] - [48]

11 Fast winding (TUNING) keys

CD, TAPE: Function as the fast forward/backward keys.

TUNER: Function as the TUNING keys.

When power is OFF:

Used to set the timer.

12 Stop (AUTO) key

CD, TAPE: Functions as the stop key.

TUNER: Functions as the AUTO key.

When power is OFF:

Activates the clock adjustment mode.

13 Skip (P.CALL) keys

CD: Function as the skip keys.

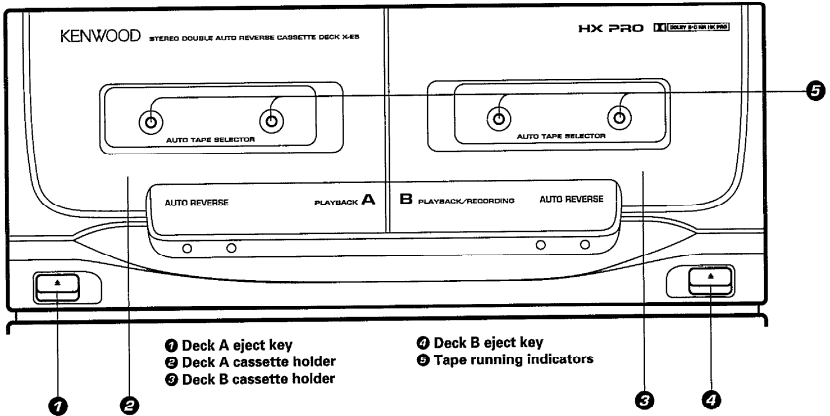
TAPE: Function as the skip key, to search the beginning of music programs.

TUNER: Function as the P.CALL keys.

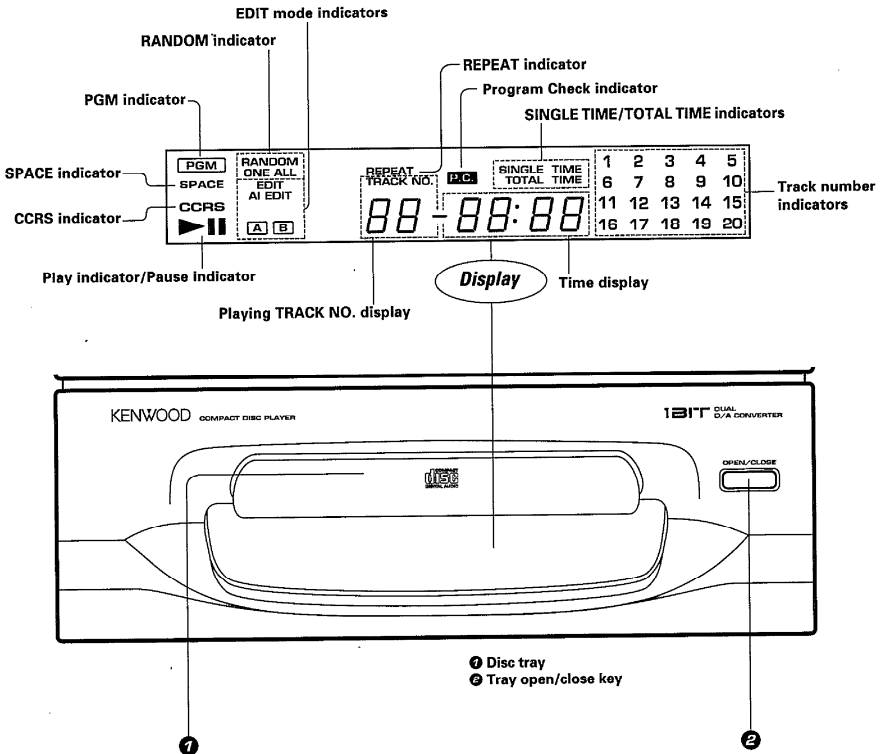
When power is OFF:

Used to adjust the clock or timer operation.

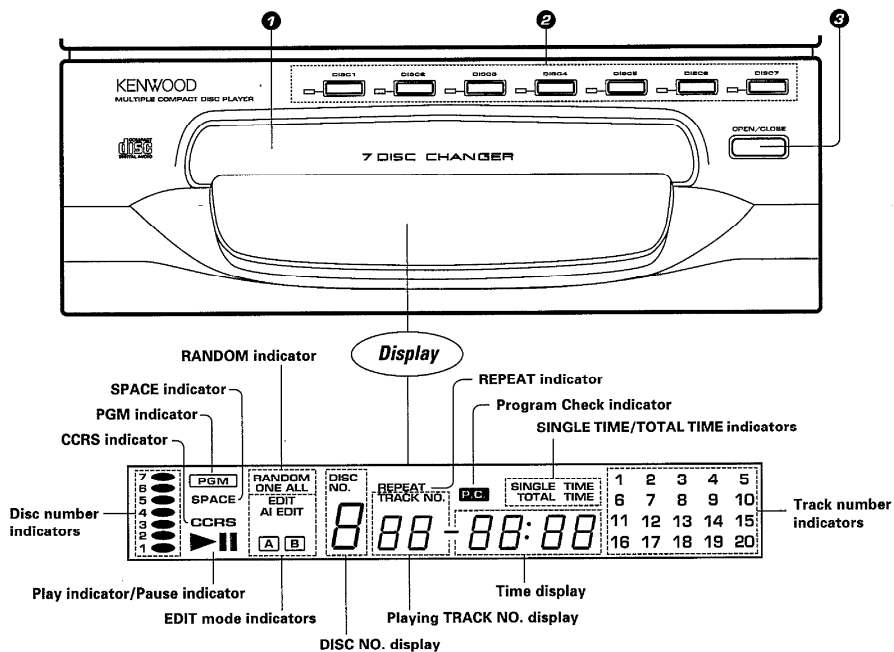
Cassette deck unit



CD player unit (UD-502)



CD player unit (UD-552)



① Disc tray

② Disc selector keys/indicators

Press a key to select the disc to be loaded, ejected or played.

③ OPEN/CLOSE key

Press to load or eject the disc selected with the disc selector keys.

Remote control unit

Some of the keys of this remote control unit have variable functions. Before pressing one of these keys, please to make sure that the input of the system has been set to the desired source.

Graphic equalizer operation keys

- EQ.EFFECT** :Press to select a graphic equalizer effect.
- PRESENCE** :Press to select a presence effect.
- DEPTH** :Press to add depth to the sound field.

The functions are variable depending on the input mode or the power ON/OFF status.

REC/ARM key

Press to start recording. When the key is pressed during recording, the tape stops after leaving a non-recorded space of 4 seconds.

Numeric keys

Function as the numeric keys of the CD player when the CD input is selected.

CD player operation keys

- TIME** :Press to switch the time display mode.
- CLEAR** :Press to clear the contents of a program.
- CHECK** :Press to display the programmed contents in order.
- SPACE** :Press to leave non-recorded spaces of a few seconds between the programmed tracks.
- EDIT MODE** :Press to select the edit recording mode.
- LONG PLAY** :Press for long-hour playback.
- P.MODE** :Press for program playback.
- RANDOM** :Press to start random playback.
- REPEAT** :Press to start repeated playback.

SLEEP key

Press to activate the sleep timer function.

POWER key

Input selector (basic operation) keys

DISC SKIP key

Press to select the disc to be played on the CD player.
(This key is invalid with the UD-502.)

A/B key

Press to select the cassette deck be operated.

O.T.E. (One-Touch Edit) key

Press to record the CD track being played onto tape, etc.

DUAL SOUND key

Press for Environmental Sound play (mixed playback of CD and another source).

◀◀, ▶▶, ■ and ▶/|| keys
Use these keys to operate the CD player during environmental sound play.

VOLUME CONTROL keys

Press to adjust the overall volume. When these keys are pressed, the current volume level is displayed on the receiver unit.

MUTE key

Press to mute the sound temporarily.

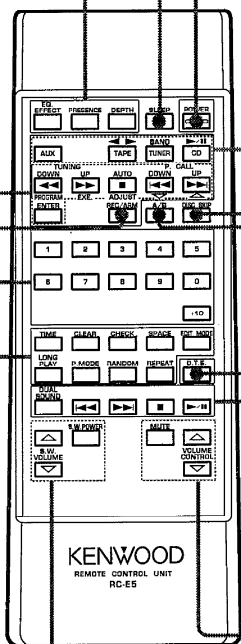
Super woofer operation keys

S.W. VOLUME

:Press to adjust the volume of the super woofer (optional).

S.W. POWER

:Press to switch the power of the super woofer (optional).



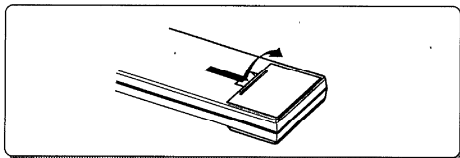
Model: RC-E5
Infrared ray system

Operation of remote control unit

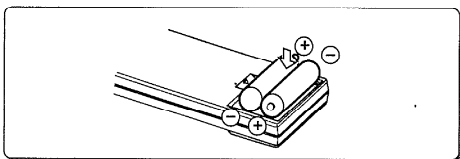
UD-502/552 (En)

Loading batteries

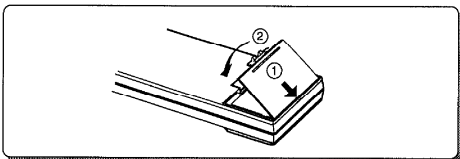
- 1 Remove the cover.



- 2 Insert batteries.



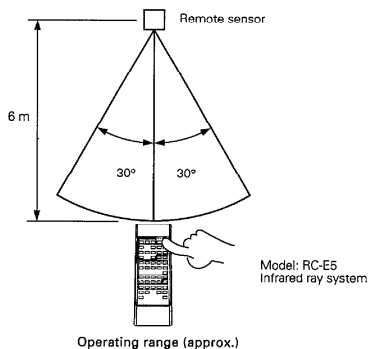
- 3 Close the cover.



- Insert two R6 ("AA"-size) batteries following the polarity indications.

Operation

After plugging the power cord of this unit, press the **POWER** key of the remote control unit to turn the power of the system **ON**. When the power is turned **ON**, press the key of the function to be operated.



- When pressing more than one remote control keys successively, press the keys securely by leaving an interval of 1 second or more between keys.

Notes



1. The provided batteries are intended for use in operation checking, and their service life may be short.
2. When the remote controllable distance becomes short, replace both of the batteries with new ones.
3. If direct sunlight or the light of a high-frequency fluorescent lamp (inverter type, etc.) is incident to the remote sensor, malfunction may occur. In such a case, change the installation position to avoid malfunction.

clock adjustment

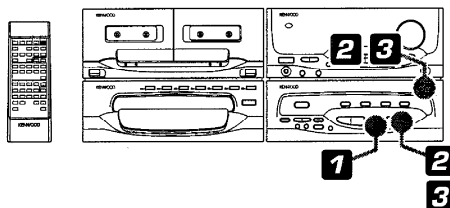
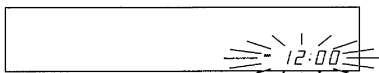
UD-502/552 (En)

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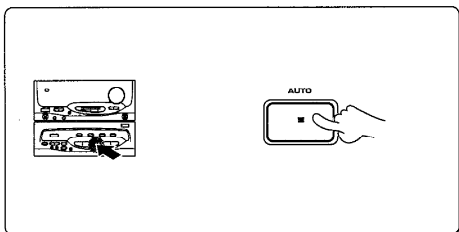
This unit incorporates a clock function. Be sure to adjust the correct time before using the timer function.

Preparations

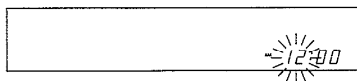
Ensure that the power is OFF.



1 Activate the clock adjustment mode.

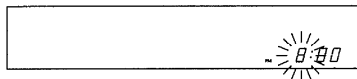
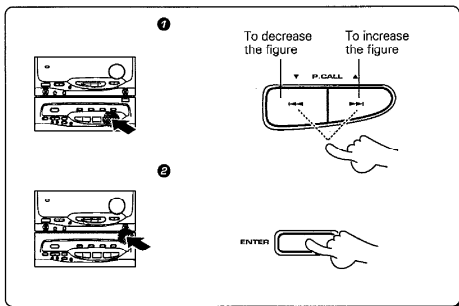


Example: Adjustment to 8:45PM (20:45)



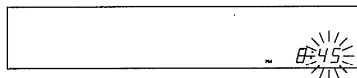
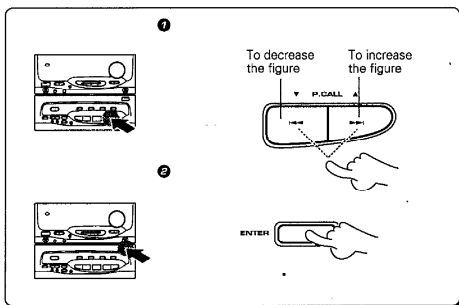
• The time display starts to blink.

2 Enter the figure of hour.



• The time of the day is represented in 12-hour AM/PM method.
 • Press the **ENTER** key. The hour is entered and the minute display starts to blink.

3 Enter the figure of minute.



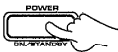
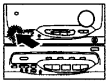
• If you make a mistake, restart from the beginning.
 • To adjust correct time, press the **ENTER** key at the same moment as a time announcement.
 • The time display blinks after a power failure or when the power cord has been unplugged from the AC outlet and plugged again. In such a case, adjust the clock again.

Sound adjustment functions

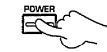
UD-502/552 (En)

Power ON / OFF

Press the POWER key.



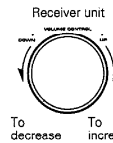
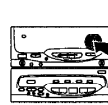
Receiver unit



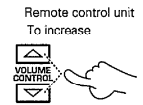
Remote control unit

- The self-illuminating key blinks and the power of the system is turned ON.

Volume adjustment



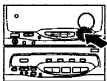
To decrease To increase



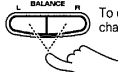
Receiver unit
Remote control unit
To increase
To decrease

- The display shows a reference value.

Adjusting the left and right volume balance

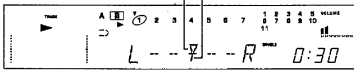


To decrease right channel volume To decrease left channel volume



Indicates the center.

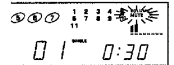
Indicates the balance setting.



Muting the sound temporarily

Remote control unit only

Blinks.

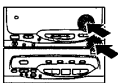


Remote control unit

- Press again to resume the original volume.

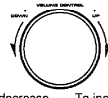
Listening through headphones

- 1 Insert the headphone plug into the PHONES jack.



- The sounds from all speakers are cut off.

- 2 Adjust the volume.



To decrease To increase

Receiver unit

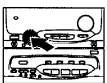
To increase



To decrease

Remote control unit

Automatic compensation of bass sound



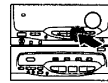
Lights.



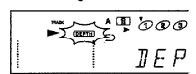
- The low frequencies are compensated automatically according to the current music content every 5 seconds.
- Press again to turn the ACTIVE N.B. OFF.

Adding depth to sound field (DEPTH)

Optional OMNI speakers (OMNI-A5) are required for playing with DEPTH effect.



Lights.



- Press again to turn DEPTH OFF.

STAND BY mode of POWER switch

When the power cord is plugged into an AC outlet, the display lights regardless of the power ON/OFF setting. This is because, even when the power is set to OFF, a small amount of power is supplied to the system to back up the memory. This status is called the standby mode of the system. While the display is lit, the power can also be turned ON/OFF from the remote control unit.



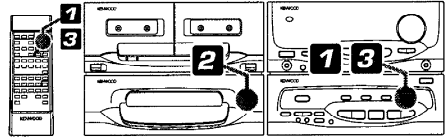
Playback of CD

UD-502/552 (En)

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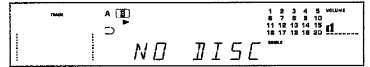
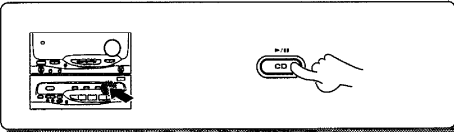
UD-502 (X-E5) only
For operation of the UD-552, refer to pages 23 to 30.

Use the following procedure to play a CD in the original order of tracks from track No. 1.

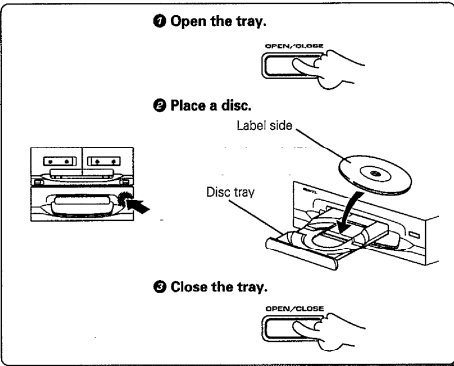


Playing tracks in order from track No. 1

1 Select the "CD" input.



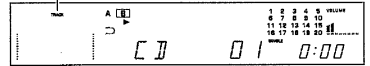
2 Load a disc.



- Do not touch the played side of disc.
- Load only one disc at a time.

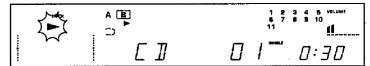
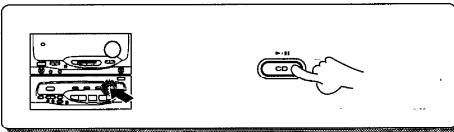
Check that "TRACK" is lit.

The recorded track Nos. are shown.



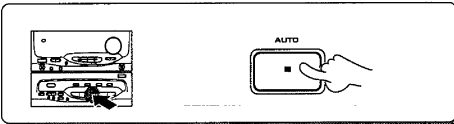
- If the "TRACK" indicator is not lit, press the **P.MODE** key to light it.

3 Start playback.

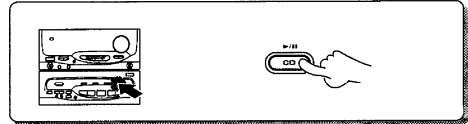


- After a few seconds, play starts from the track No.1.

To stop playback



To pause playback



- Each press pauses and plays the CD alternately.

Playback from desired track



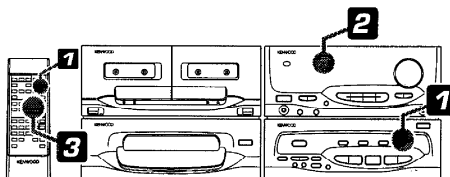
UD-502/552 (En)

UD-502 (X-E5) only

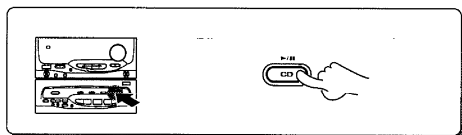
For operation of the UD-552, refer to pages 23 to 30.

Preparation

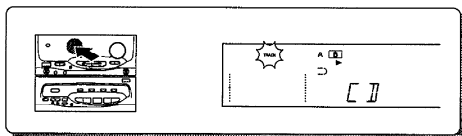
- Load a disc in the CD player.



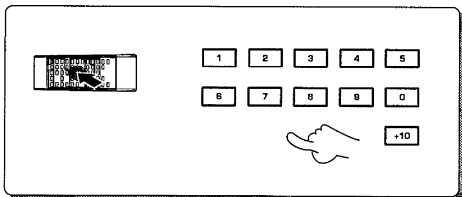
1 Select the "CD" input.



2 Check that the "TRACK" indicator is lit.



3 Select the desired track No.



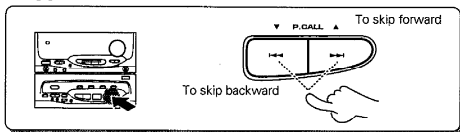
- If the "TRACK" indicator is not lit, press the **P.MODE** key to light it.

Press the numeric keys as shown below....

To enter track No. 23 : **+10, +10, 3**
 To select track No. 40 : **+10, +10, +10, +10, 0**

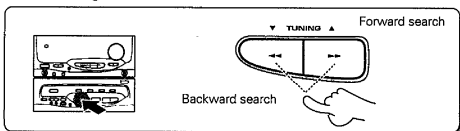
- Playback starts from the selected track and continues on the subsequent tracks.
- If a track No. which does not exist on the disc is selected while the disc tray is open, the last track on the disc will be played.
- Once the tray has been closed or playback has started, a track No. which does not exist on the disc cannot be selected.

Skipping tracks



- The track in the direction of the pressed button is skipped, and the selected track will be played from the beginning.
- When the **←** key is pressed once during playback, the track being played will be played from the beginning.

Searching



- Playback starts from the position where the key is released.



Programming tracks in desired order

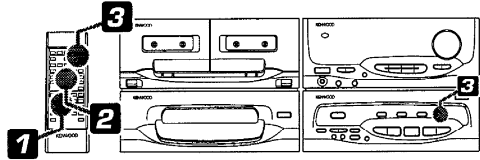
UD-502/552 (En)

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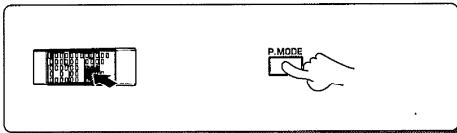
UD-502 (X-E5) only
For operation of the UD-552, refer to pages 23 to 30.

Preparation

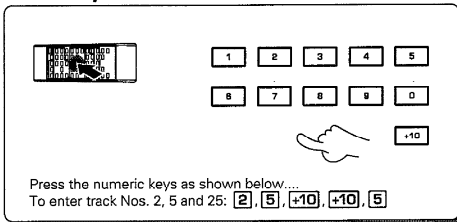
- Select the "CD" input.
- Load a disc in the CD player.



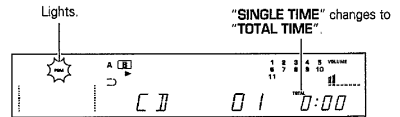
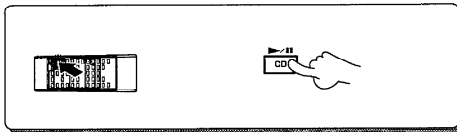
1 Activate the PGM mode.



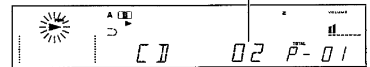
2 Enter track Nos. in the order you want to play themp.



3 Start playback.



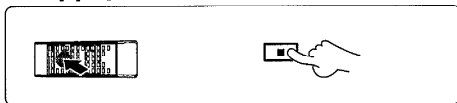
Displays the entered track No. for a few seconds.



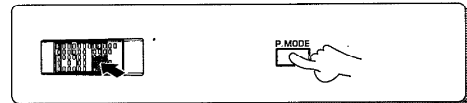
- Up to 32 tracks can be programmed. **FULL** is displayed if you attempt to program a 33rd track.
- If you make a mistake, press the **CLEAR** key and enter the track No. from the beginning.

- Tracks will be played in the order they were programmed (in order of P Nos.).
- When the **⏮** or **⏭** key is pressed during playback, the track will be skipped in the direction of the pressed button.
- When the **⏮** key is pressed once during playback, the play position returns to the beginning of the current track being played.

To stop playback



To return to playback in order of track Nos.



- Playback in the original order of tracks starts with the track being played.

**UD-502 (X-E5) only**

For operation of the UD-552, refer to pages 23 to 30.

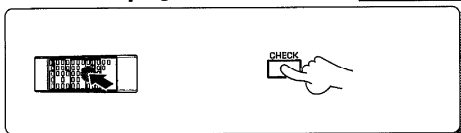
Auto space function

When the **SPACE** key is pressed during programming of tracks, a non-recorded space of a few seconds will be created between tracks. By recording tracks with these spaces on tape, the search and repeat play operations of tape using the DPSS function (which works by searching the non-recorded spaces) can be performed reliably.

- Even when the performances of two tracks are continuous (which occurs with classical or live recording music), the spaces will be created if they have different track Nos.
- The displayed total playing time will include these non-recorded spaces.
- To cancel the creation of space, press the **SPACE** key again.

To check the programmed tracks

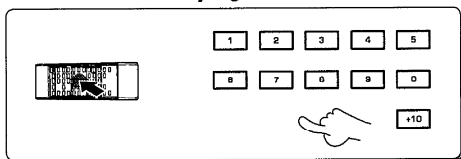
Remote control unit only



P.C. lights.



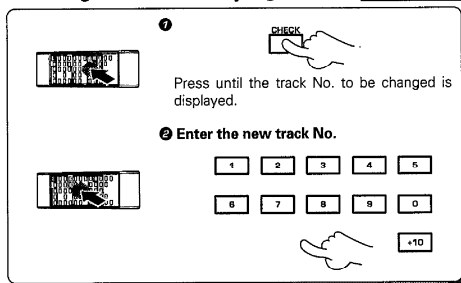
- Each time the key is pressed, the program No. (P-NO) and the track No. on CD are displayed.
- The previous display resumes in a few seconds.

To add a track to the program

- When a track No. is entered, the track will be added to the end of the existing program.

To change a track in the program

Remote control unit only



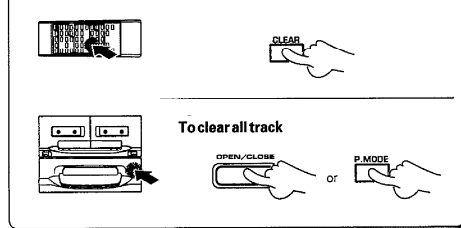
P.C. lights.



- Press while the P.C. indicator is lit.
- The track being played cannot be changed.

To clear tracks from the program

Press to clear tracks from the end.



- Each time the key is pressed, the last track in the program is cleared.
- The track being played cannot be changed.

- The entire program is cleared.



Repeated playback

UD-502/552 (En)

UD-502 (X-E5) only

For operation of the UD-552, refer to pages 23 to 30.

Preparation

- Select the "CD" input.
- Load discs in the CD player.

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Time display on CD player

Each press of the TIME key changes the display contents.

- ① 1:23 Elapsed time of track being played
- ② - 2:37 Remaining time of track being played
- ③ 23:45 Elapsed time of entire disc
- ④ - 35:15 Remaining time on entire disc

● Only the **SINGLE TIME** is displayed in the PGM, edit and random modes.

To repeat a disc

- 1 Check that the CD player is in the TRACK mode.



If it is in the PGM mode, press the P.MODE key to enter the TRACK mode.

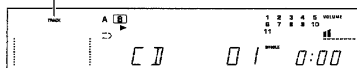
- 2 Press to select DISC REPEAT.



- 3 Start playback.



Check that the indicator is lit.



Each press switches the repeat mode.

- ① REPEAT
- ② DISC REPEAT
- ③ Repeat OFF

Lights.



To stop repeated playback

Press the REPEAT key again.

- The "DISC" and "REPEAT" indicators go off and the playback following the current mode of the CD player starts.

To repeat only one track

- 1 Check that the CD player is in the TRACK mode.



If it is in the PGM mode, press the P.MODE key to enter the TRACK mode.

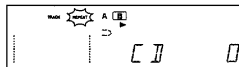
- 2 Press to select REPEAT.

- 3 Select the track.

Each press switches the repeat mode.

- ① REPEAT
- ② DISC REPEAT
- ③ Repeat OFF

Lights.



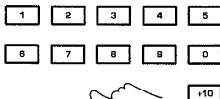
To stop repeated playback

Press the REPEAT key twice.

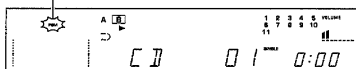
- The "REPEAT" indicators go off and the playback following the current mode of the CD player starts.

**UD-502 (X-E5) only**

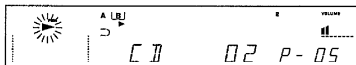
For operation of the UD-552, refer to pages 23 to 30.

To repeat only the programmed tracks**1 Activate the PGM mode.**If the CD played is in the TRACK mode, press the **P.MODE** key to enter the PGM mode.**2 Select the track.****3 Press to select REPEAT.****4 Start playback.**

Lights.

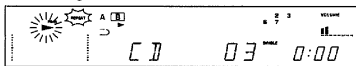


Blinks



- All of the programmed tracks will be played repeatedly.
- Up to 32 tracks can be programmed by repeating steps 2 and 3. When "FULL" is displayed, no more tracks can be programmed.

Lights.

**To stop repeated playback****Press the REPEAT key again.**

- The "REPEAT" indicator goes off and the playback following the current mode (PGM) of the CD player starts.



Playback in a random order (Random playback)

UD-502/552 (En)

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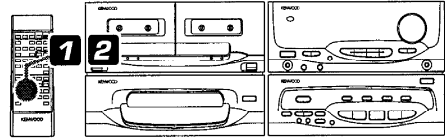
UD-502 (X-E5) only

For operation of the UD-552, refer to pages 23 to 30.

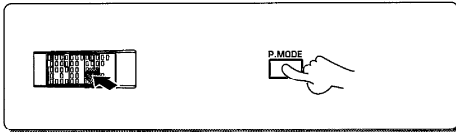
As Tracks are selected at random, you can enjoy listening to for a long time.

Preparation

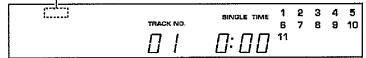
- Select the "CD" input.
- Load discs in the CD player.



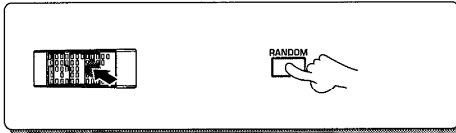
1 Press so that the PGM indicator goes off.



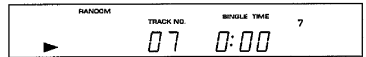
Press so that the "PGM" indicator goes off.



2 Start random playback.

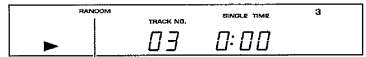


Example when track No. 7 is selected first



- Random playback by selecting tracks at random after every track.

Example when track No. 3 is selected next



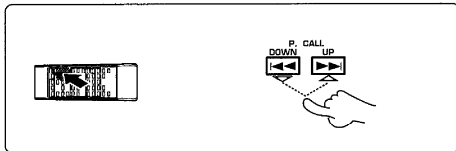
RANDOM indicator

Each press of the **RANDOM** key changes the random playback modes.

- ① **RANDOM**
- ② **OFF**

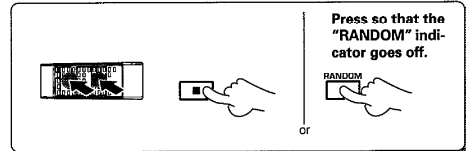
- Random playback ends when all of the tracks on the disc have been played once.
- Random playback can be repeated by pressing the **REPEAT** key.

To select another track in the middle of playing one



- Pressing the **◀◀** key once returns to the beginning of the track being played.

To cancel random playback

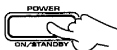


- Press the **■** key to stop playback.
- Press the **RANDOM** key to start normal playback.

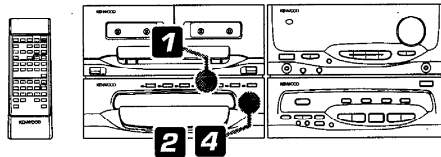


UD-552 (X-ME5) only
For operation of the UD-502, refer to pages 16 to 22.

Preparation

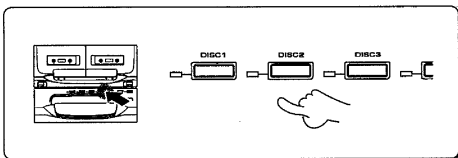


Turn the power of the receiver/multi command unit ON before proceeding with the steps below.

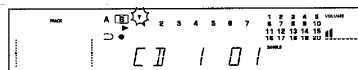


Loading a disc

1 Select a disc (bank).



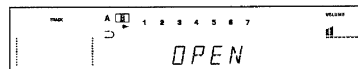
Disc No. indication.



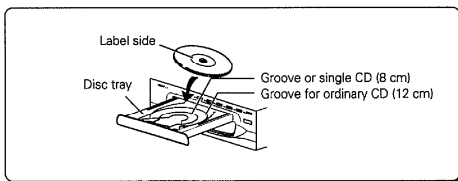
- If the CD player is left untouched for a few seconds after the disc bank number has been selected, the CD player will enter the disc search mode (or play mode). To prevent this, press the **OPEN/CLOSE** key immediately after selecting the disc bank.

2 Open the tray.

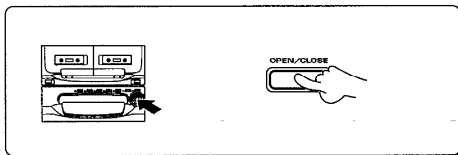
Press immediately after selection.



3 Place (or take out) a disc.

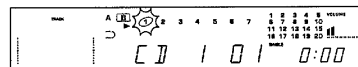


4 Close the tray.



- A single CD (8 cm disc) can also be played (with disc bank No. 1 only).
- Place the disc properly along the groove on the tray. (If the disc is not placed horizontally, malfunction will result.)

- Then the disc which has been placed on the tray is stored in the disc bank selected in step 1.



To load (or eject) more than one disc, repeat steps 1 to 4 for each disc.



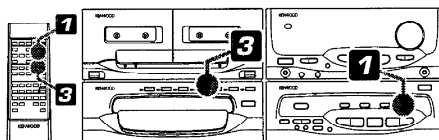
Playing tracks in order from track No. 1

UD-502/552 (En)

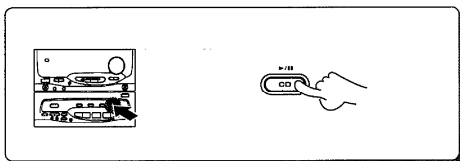
UD-552 (X-ME5) only
For operation of the UD-502, refer to pages 16 to 22.

24

Use the following procedure to play CDs in the original order of tracks from track No. 1.



1 Select the "CD" input.

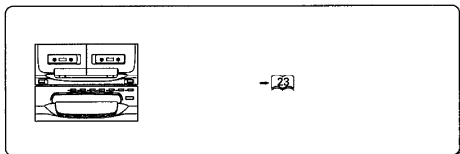


"TRACK" should be displayed.

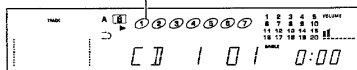


● If "TRACK" is not displayed, press the P.MODE key of the remote control unit to display it.

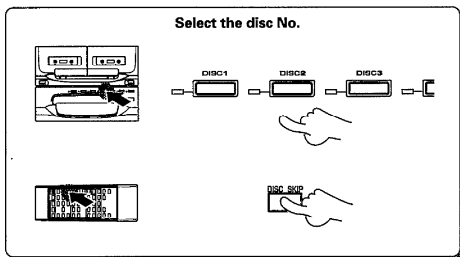
2 Load a disc.



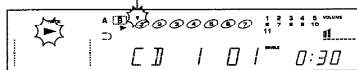
The disc bank indicators in which discs are loaded light.



3 Start playback.

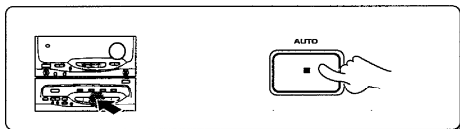


The selected disc is indicated.

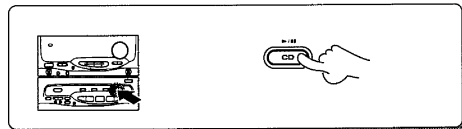


● Playback starts from the selected disc and continues in order of disc Nos.
● If the ►/II key is pressed without selecting a disc, discs will be played automatically in the following order: 1 → 2 → 3 → 4 → 5 → 6 → 7.

To stop playback



To pause playback



● Each press pauses and plays the CD alternately.

Playback from desired track



UD-502/552 (En)

UD-552 (X-ME5) only

For operation of the UD-502, refer to pages 16 to 22.

Preparation

- Select the "CD" input.
- Load discs in the CD player.

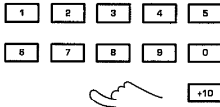
-[23]-[24]

Selection with numeric keys

① Select the disc.



② Select the desired track No.



- The disc can also be selected with the DISC SELECTOR key.

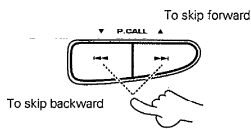
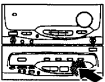
Press the numeric keys as shown below....

To enter track No. 23 : [+10], [+10], [3]

To select track No. 40 : [+10], [+10], [+10], [+10], [0]

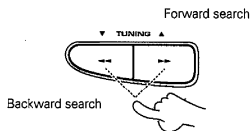
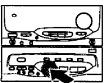
- Playback starts from the selected track and continues on the subsequent tracks.
- When the tray has been closed or playback has started, a track No. which does not exist on the disc cannot be selected.

Skipping tracks



- The track in the direction of the button pressed is skipped, and the selected track will be played from the beginning.
- When the <← key is pressed once during playback, the track being played will be played from the beginning.

Searching



- Playback starts from the position where the key is released.



Programming tracks in desired order

UID-502/552 (EN)

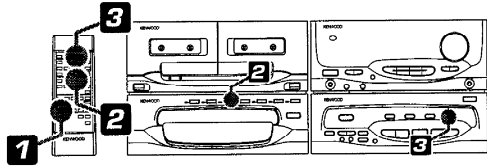
UD-552 (X-ME5) only
For operation of UD-502, refer to pages 16 to 22.

Use the following procedure to select desired tracks (up to 32 tracks) from up to 7 discs and program them in the desired order.

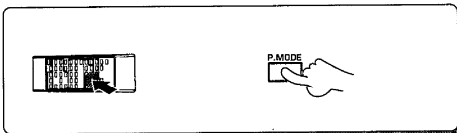
Preparation

- Select the "CD" input.
- Load discs in the CD player.

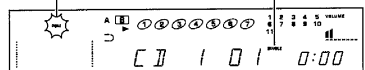
-23- -24-



1 Activate the PGM mode.



Lights. Only "SINGLE TIME" is displayed in program mode.



2 Enter track Nos. in the order you want to play them.

① Select the disc No.

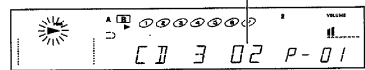
Within 8 seconds!

② Select the track No.

1 2 3 4 5
6 7 8 9 0
-10

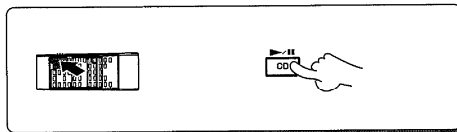
To select tracks from more than one CD, repeat steps ① and ② above.

Displays the entered track No.



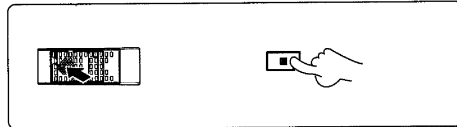
- Up to 32 tracks can be programmed. *FULL* is displayed if you attempt to program a 33rd track.
- If you make a mistake, press the **CLEAR** key and enter the track No. from the beginning.
- If the track No. is not selected within 8 seconds after having selected the disc No. all of the tracks on the disc will be programmed.
- If a disc No. which is not present in the magazine is entered, it is programmed temporarily but canceled at the time of playback.

3 Start playback

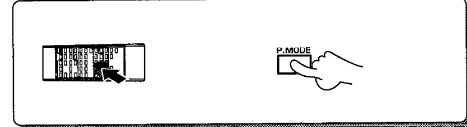


- Tracks will be played in the order they were programmed (in order of P Nos.).
- When the **◀** or **▶** key is pressed during playback, the track will be skipped in the direction of the pressed button.

To stop playback



To return to playback in order of track Nos.



- Playback in the original order of tracks starts with the track being played.

**UD-552 (X-ME 5) only**

For operation of UD-502, refer to pages 16 to 22.

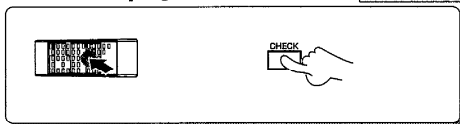
Auto space function

When the **SPACE** key is pressed during programming of tracks, a non-recorded space of a few seconds will be created between tracks. By recording tracks with these spaces on tape, the search and repeat play operations of tape using the DPSS function (which works by searching the non-recorded spaces) can be performed reliably.

- Even when the performances of two tracks are continuous (which occurs with classical or live recording music), the spaces will be created if they have different track Nos.
- To cancel the creation of space, press the **SPACE** key again.

To check the programmed tracks

Remote control unit only



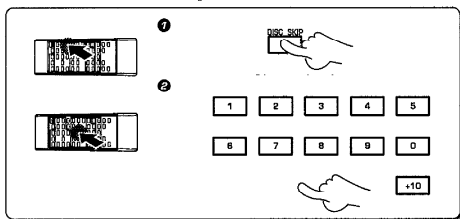
P.C. lights.



- Each time the key is pressed, the program No. (P-NO) and the disc No. are displayed.
- The previous display resumes in a few seconds.

To add a track to the program

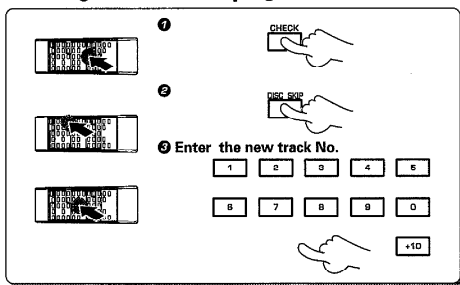
Remote control unit only



- When a track No. is entered, the track will be added to the end of the existing program.

To change a track in the program

Remote control unit only



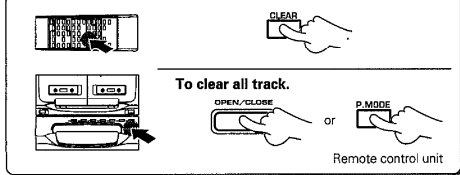
P.C. lights.



- Press the **CHECK** key repeatedly until the track No. to be changed is displayed.
- Press while the **P.C.** indicator is lit.
- The track being played cannot be changed.

To clear tracks from the program

Press to clear tracks from the end.



To clear all track.

OPEN/CLOSE

or P.MODE

Remote control unit

- Each time the key is pressed, the last track in the program is cleared.
- The track being played cannot be cleared.



UD-552 (X-ME5) only
For operation of UD-502, refer to pages 16 to 22.

Preparation

- Select the "CD" input.
- Load discs in the CD player.

← [23] → [24]

Time display on CD player

Each press of the **TIME** key changes the displayed contents.

- ① 1:23 Elapsed time of track being played
- ② - 2:37 Remaining time of track being played
- ③ 23:45 Elapsed time of entire disc
- ④ - 36:15 Remaining time on entire disc

- Only the **SINGLE TIME** displays are shown in the PGM, EDIT and **RANDOM** modes.

Repeated playback**To repeat a disc**

- ① Check that the CD player is in the **TRACK** mode.

If it is in the PGM mode, press the **P.MODE** key to enter the TRACK mode.



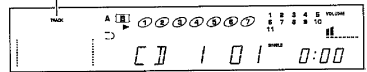
- ② Press to select **DISC REPEAT**.



- ③ Select the disc.



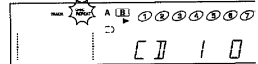
Check that the indicator is lit.



Each switch the repeat mode.

- ① REPEAT
- ② DISC REPEAT
- ③ ALL REPEAT
- ④ Repeat OFF

Lights.

**To stop repeated playback**

Press the **REPEAT** key twice.

- The "DISC" and "REPEAT" indicators go off and the playback following the current mode of the CD player starts.

To repeat all discs

- ① Check that the CD player is in the **TRACK** mode.

If it is in the PGM mode, press the **P.MODE** key to enter the TRACK mode.



- ② Press to select **ALL REPEAT**.



- ③ Select the disc to be played first.

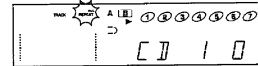


- All tracks on all of the discs loaded on the disc tray will be played repeatedly.

Each press switches the repeat mode.

- ① REPEAT
- ② DISC REPEAT
- ③ ALL REPEAT
- ④ Repeat OFF

Lights.

**To stop repeated playback**

Press the **REPEAT** key again.

- The "ALL" and "REPEAT" indicators go off and the playback following the current mode of the CD player starts.

**UD-552 (X-ME5) only**

For operation of UD-502, refer to pages 18 to 22.

To repeat only one track

- ① Check that the CD player is in the **TRACK mode**.

If it is in the PGM mode, press the **P.MODE** key to enter the TRACK mode.



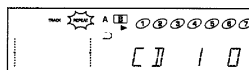
- ② Press to select **REPEAT**.

- ③ Select the disc.

- ④ Select the track.

Each press switches the repeat mode.

- ① REPEAT
② DISC REPEAT
③ ALL REPEAT
④ Repeat OFF

**To stop repeated playback**

Press the **REPEAT** key three times.

- The "REPEAT" indicator goes off and the playback following the current mode (PGM) of the CD player starts.

To repeat only the programmed tracks

- ① Activate the **PGM mode**.

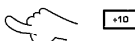
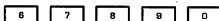
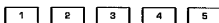
If the CD played is in the TRACK mode, press the **P.MODE** key to enter the PGM mode.



- ② Select the disc.



- ③ Select the track.



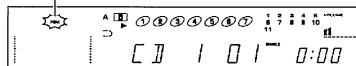
- ④ Press to select **REPEAT**.



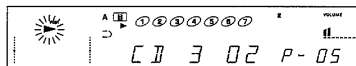
- ⑤ Start playback.



Lights.

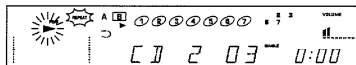


Blinks.



- All of the programmed tracks will be played repeatedly.
- Up to 32 tracks can be programmed by repeating steps ② and ③. When "FULL" is displayed, no more tracks can be programmed.

Lights.

**To stop repeated playback**

Press the **REPEAT** key again.

- The "REPEAT" indicator goes off and the playback following the current mode (PGM) of the CD player starts.



30

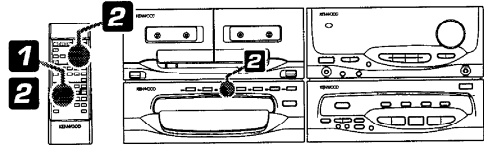
UD-552 (X-ME5) only
For operation of UD-502, refer to pages 16 to 22.

As Tracks are selected at random, you can enjoy listening to for a long time.

Preparation

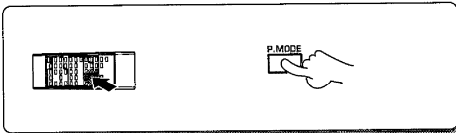
- Select the "CD" input.
- Load discs in the CD player.

- (23) - (24)



Playback in a random order (Random playback)

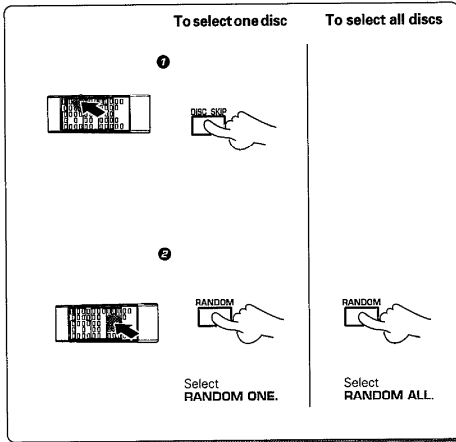
1 Press so that the PGM indicator goes off.



Press so that the "PGM" indicator goes off.

DISC NO.	TRACK NO.	SINGLE TIME	1	2	3	4	5
101	0:00	11	12	13	14	15	16
		18	17	18	19	20	

2 Select discs.



Each press of the **RANDOM** key changes the random playback modes.

- ① **RANDOM ONE** : Random playback from a single disc.
- ② **RANDOM ALL** : Random playback from all discs.
- ③ **Display OFF** : Random playback is OFF.

Example when track No. 7 of disc No. 3 is selected first

RANDOM	DISC	TRACK NO.	SINGLE TIME
ALL	3	7	0:00

- Random playback by selecting tracks at random after every track.

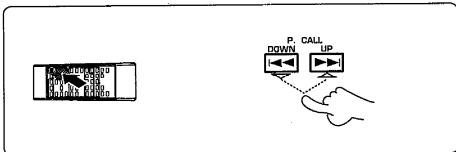
Example when track No. 3 of disc No. 5 is selected next

RANDOM	DISC	TRACK NO.	SINGLE TIME
ONE	5	3	0:00

"RANDOM ONE" or "RANDOM ALL" indication.

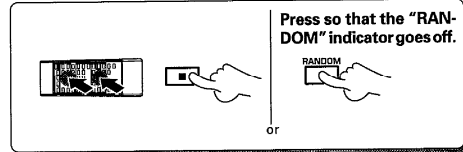
- Random playback ends when all of the tracks on the disc or the discs have been played once.
- Random playback can be repeated by pressing the **REPEAT** key.

To select another track in the middle of playing one

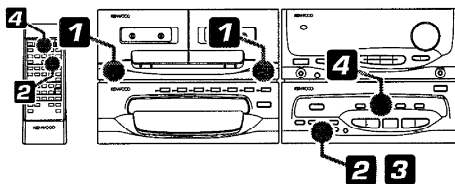


- Pressing the **P. CALL DOWN** key once returns to the beginning of the track being played.

To cancel random playback

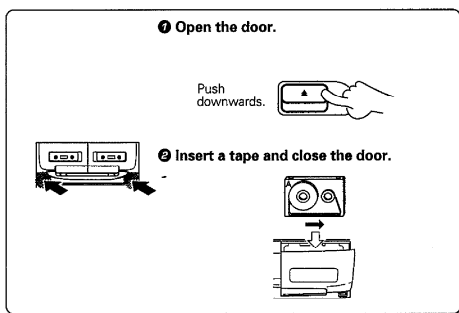


- Press the **P. CALL UP** key to stop playback.
- Press the **RANDOM** key to start normal playback.

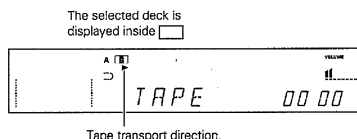


Tape playback

1 Load a cassette tape.

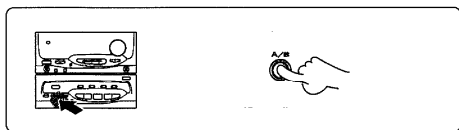


- The type of tape, that is, Normal or Chrome is set automatically.
- Remove tape slack before loading.



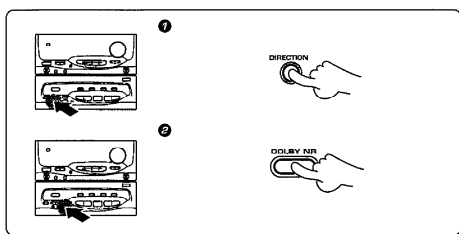
- Close the door securely.

2 Select the deck to be used for playback.



- If a tape has been loaded in only one of the decks, the deck containing the cassette is selected automatically.

3 Determine the playback modes.



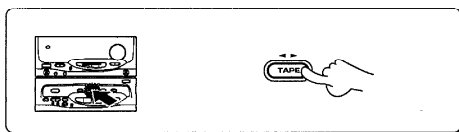
Each press switches the modes as follows.

- "▷" Playback stops after having played the two sides.
- "∞" Endless playback occurs.
- "◁" Playback stops after having played a side.

- ① DOLBY NR "B" Ordinary type.
- ② DOLBY NR "C" Higher-performance type.
- ③ DOLBY NR OFF Dolby NR is not used.

- Select the Dolby NR mode according to the recording condition of the tape.

4 Start playback.



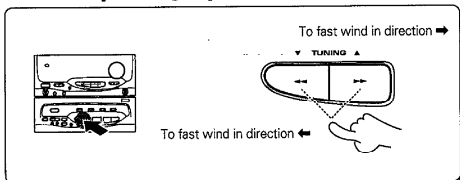
- If the tape transport direction is not the desired direction, press the TAPE ◀ ▶ key again.

To stop playback



- Do not press the eject key until the tape has stopped completely.

To wind tape at high speed



- Press the ■ key to stop fast winding.

A tip for use of the tape counter

The tape counter is set to 0000 when a cassette tape is loaded. By writing down the counter reading in case you want to interrupt recording (playback) in the middle of the tape, the memo will be helpful as a reference for locating the same position when continuing the recording (playback) the next time. The tape counter figure decrements during recording or playback of the back side (while the ◀ tape transport indicator is lit). To reset the tape counter to 0000, press the COUNTER RESET key.



Dolby Noise Reduction (NR)

The Dolby NR system is used to minimize the hiss noise heard when playing tape. The system has the B type and C type, and the same type should be used in recording and playback to obtain the noise reduction effect.

When you record a tape, it is recommended to write the type used, "B" or "C", on the cassette label.

Dolby B NR: Generally-used Dolby NR.

Dolby C NR: Features a higher noise reduction effect than the B type. The use of Dolby C NR is recommended if you record tapes to be played on this unit.

Transport direction indicators

The ◀ and ▶ indicators indicate the current direction in which the tape advances when playback or recording is started automatically by the easy operation function, etc. This direction is the direction stored in memory when the tape was last stopped.

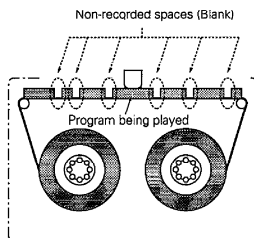
(To change the direction, press the TAPE (◀ ▶) key then press the ■ key.)



Transport direction indicators.

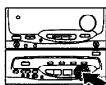
DPSS (Direct Program Search System)

The DPSS is capable of detecting non-recorded spaces of more than 4 seconds as "blanks between programs". This makes it easy to search and play the desired music program by skipping other (up to 16) programs.

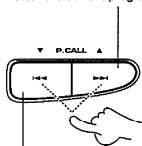


Skip search

During playback of side A (while ► is lit)



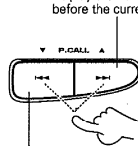
To play the next program : Press once.
 To play the 4th program after the current program : Press 4 times.



To return to the beginning of the current program : Press once.
 To play the 4th program before the current program: Press 5 times.

During playback of side B (while ◀ is lit)

To return to the beginning of the current program : Press once.
 To play the 4th program before the current program: Press 5 times.



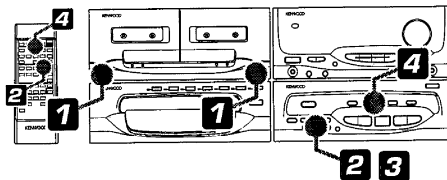
To play the next program : Press once.
 To play the 4th program after the current program : Press 4 times.

Notes



The DPSS may not function normally with the following kinds of tape.

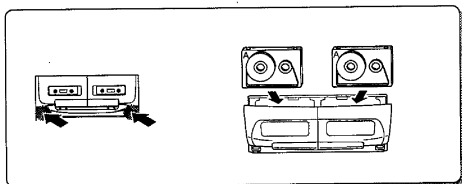
- Tapes containing several no-sound intervals of more than 4 seconds, such as conversation and talk tapes.
- Tapes containing pianissimo sections, such as classical music tape.
- Tapes in which large noise is recorded in blanks between programs.
- Tapes containing blanks between programs that are shorter than 4 seconds.
- Tapes recorded at low level.
- Tapes recorded by cross-fade recording (in which the beginning of next program is overlapped on the end of previous program).



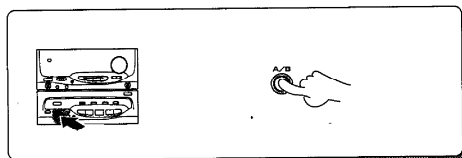
Relay playback

Use the following procedure to play tapes in decks A and B alternately.

1 Load tapes.

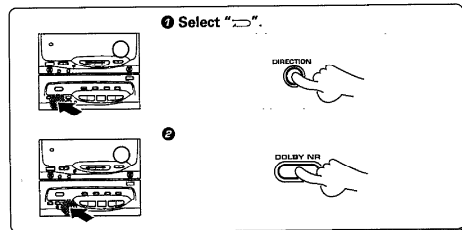


2 Select the deck to be played first.



• The tape sides indicated by the tape transport direction indicators will be played.

3 Select the playback modes.

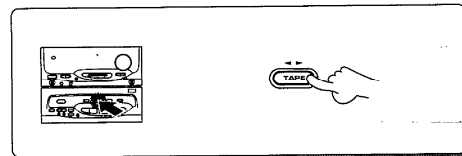


Each press switches the modes as follows.

- ▶ "D" Both sides of tapes in both decks A and B will be played repeatedly.
- ▶ "C" Relay playback is not possible in this mode.
- ▶ "A" Relay playback is not possible in this mode.
- ▶ ① DOLBY NR "B" Ordinary type.
- ▶ ② DOLBY NR "C" Higher-performance type.
- ▶ ③ DOLBY NR OFF Dolby NR is not used.

• Select the Dolby NR mode according to the recording condition of the tape.

4 Start playback.

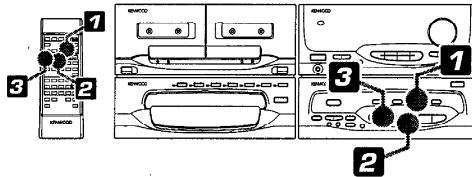


Broadcast Reception



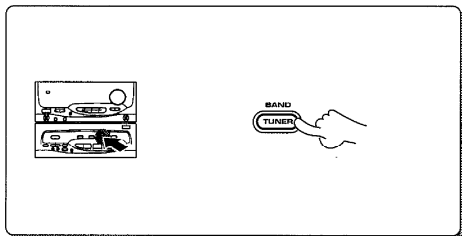
UD-502/552 (En)

Use the following procedure to receive radio stations. It is also possible to receive them by one-touch operations by storing up to 20 stations in the preset memory.



Receiving broadcast station

1 Select the broadcast band.



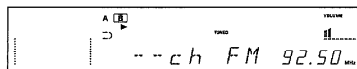
Each press alternates the band.

For U.K. and Europe

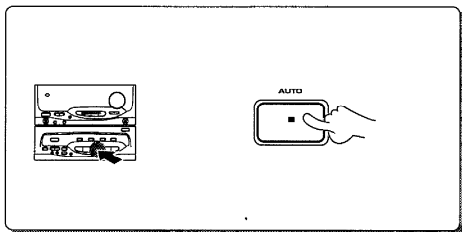
- ① FM
- ② MW
- ③ LW

Except for U.K. and Europe

- ① FM
- ② AM

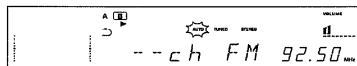


2 Select the tuning mode.



Each press alternates the mode.

- ① **AUTO** lit (Auto tuning)
- ② **AUTO** not lit (Manual tuning)

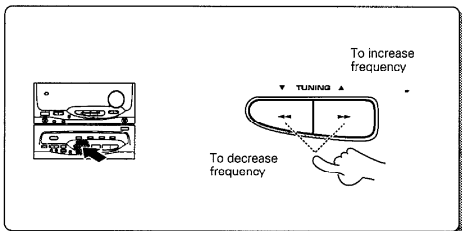


• Normally, use the **AUTO** (Auto tuning) mode.

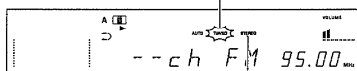


Use the manual tuning mode when reception is noisy due to weak reception. (In the manual mode, stereo broadcasts are received in monaural.)

3 Select a station.



The "TUNED" indicator lights when a station is received.



Frequency display
Lights during stereo reception.

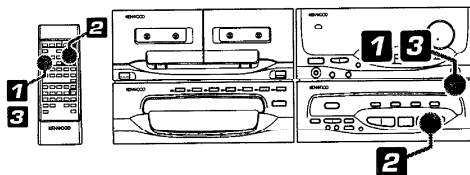


Auto tuning : Each press receives the next station.
Manual tuning : Press the key repeatedly or hold it depressed until a station is received.

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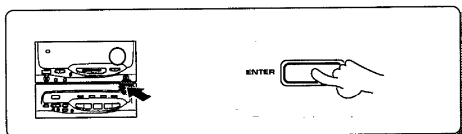
Preparation

- Receive a station to be stored in preset memory.



Storing radio stations in memory (Station preset)

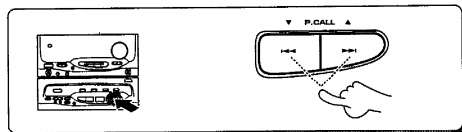
1 Press the ENTER key during reception.



Go to step 2 within 5 sec.

If more than 5 seconds have elapsed, press the ENTER key again.

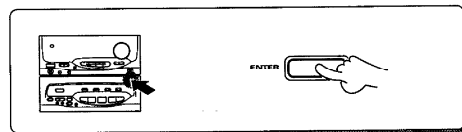
2 Select one of the preset numbers from 1 to 20.



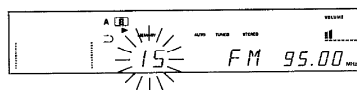
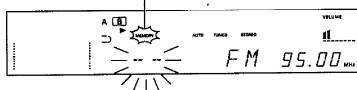
Go to step 3 within 5 sec.

If more than 5 seconds have elapsed, restart the procedure from step 1.

3 Press the ENTER key again.

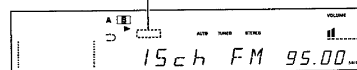


MEMORY lights (for approx. 5 sec.).



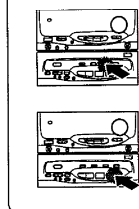
- Repeat steps 1 2 3 to preset other stations.
- If several stations are preset under the same number, the previous memory is replaced with the latest memory contents.

Goes off.

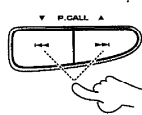


Receiving a preset station

- Select the tuner mode.



2



- Every time the key is pressed, the preset stations are switched over as follows.

Press ►► for the order of 1→2→3 ... 18→19→20→1...

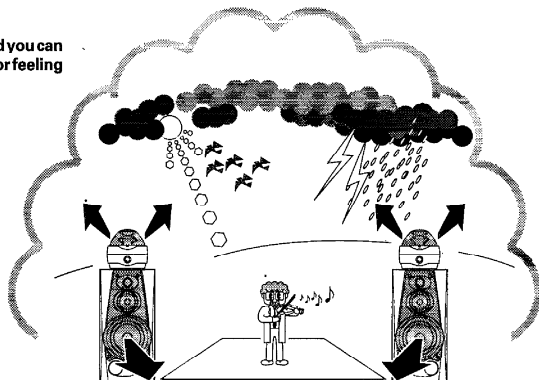
Press ◀◀ for the order of 20→19→18 ... 3→2→1→20...

- When a key is held depressed, preset stations will be skipped at an interval of about 0.5 second.

Two kinds of sources, for example CD and tape, can be played simultaneously and mixed. Mixing an environmental sound with the main music makes you feel as if you were listening to that music in that environment.

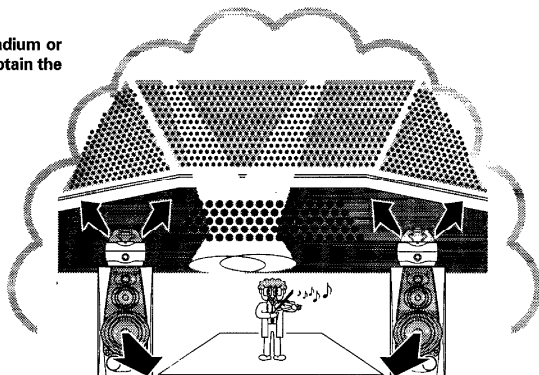
Enjoy with natural environmental sound

Mix a sound recorded in nature with desired music, and you can enjoy the feeling of listening to music in the outdoors or feeling the seasons of the year.



Enjoy with presence environment sound

Mix an environmental sound such as cheers in a stadium or stirring sound in a jazz club, with desired music to obtain the feeling of presence in these places.



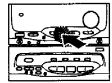
If the presence environmental sound is combined with the presence mode, the obtained atmosphere will be made more realistic.

-28-

If the optional OMNI speakers (OMNI-A5) are used, the effect of the Environmental Sound can be enhanced further.

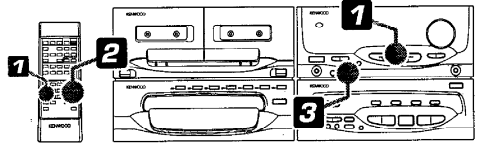
Preparation

- Switch the presence effect OFF.



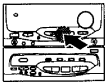
TAPE — 31
TUNER — 32

- Receive a radio station or play a CD or cassette tape.



The easy operation function is defeated while the DUAL SOUND is ON.

1 Switch the DUAL SOUND ON.



Check that the "PRESENCE" indicator is OFF.
Lights.



Each press of the DUAL SOUND key changes the environmental sound volume as follows.

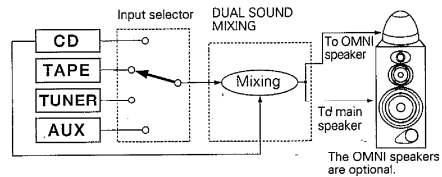
- ① ON
- ② OFF (No display)

2 Play a CD.

- ① Load a CD in the CD player.



- ② Start playing the CD.

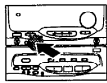


The OMNI speakers are optional.



- The sound of the source selected with the input selector keys (CD, TUNER, TAPE or AUX) is mixed with the environmental sound (CD) and the mixed sound is reproduced through the main and OMNI speakers.
- If the environmental sound is prerecorded on tape, the environmental sound can be mixed with the music of the desired CD.

3 Adjust the volume balance.

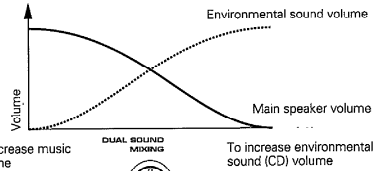


DUAL SOUND MIXING



To increase music volume

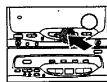
To increase environmental sound (CD) volume



To increase music volume

To increase environmental sound (CD) volume

To return to normal playback:



The "DUAL SOUND" display goes off.

To control CD operation:



While the DUAL SOUND is ON, the CD player can be operated with the special keys on the remote control unit. The keys for use in normal operation of the CD player are defeated in this case.

Special keys (◀, ▶, ■, ▶|■)

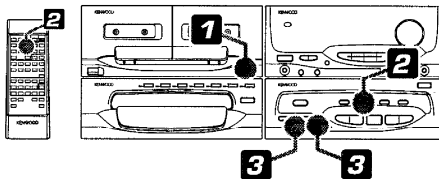
Recording (Deck B only)

This unit incorporates the CRLS (Computer Recording Level System) automatic recording level setting and Dolby HX Pro headroom extension to allow excellent sound recording with simple operation.



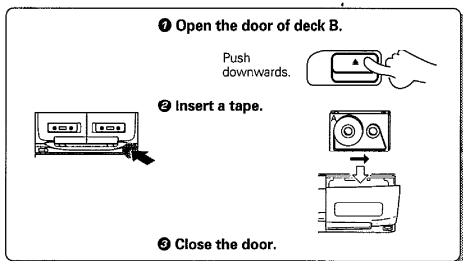
The presence effects applied to the music are recorded together with the music sound.

When the Environmental Sound function is applied, the environmental sound can be recorded mixed in the music sound. Enjoy the Environmental Sound recording by combining the CD and tuner sounds or an external component connected to the system. (In this case, it is not possible to record the sound of deck A onto deck B.)



Preparation for recording

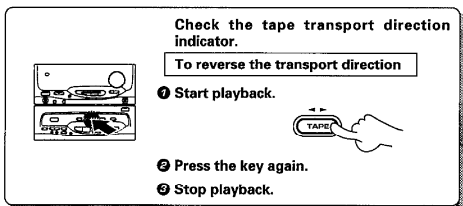
1 Load a tape in deck B.



Note that the receiver unit of this system is not capable of recording sound on a Metal tape.

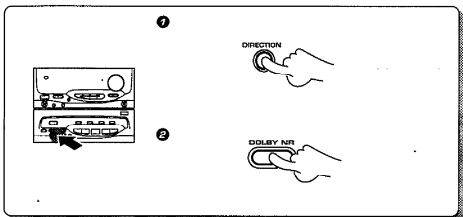
- The type of tape, that is, normal or chrome is set automatically.
- Remove tape slack before loading.
- When the microphone is not used, set the **MIC MIXING** control fully counterclockwise to the minimum position.

2 Select the tape transport direction.



- When recording is started, the tape is transported in the direction selected in this step.
- Wind the tape to the position where recording is to be started.

3 Set the recording condition.



Each press of the keys switches the displayed modes as follows.

- ① **DOLBY NR "B"** ... Ordinary type.
- ② **DOLBY NR "C"** ... Higher-performance type.
- ③ **DOLBY NR OFF** ... Dolby NR is not used.

Function of CRLS key

The CRLS sets the recording level automatically in 20 seconds by analyzing the sound to be recorded.

If the key has never been pressed .. The sound is recorded with the basic level set with the unit.

If the key is pressed The recording level is set automatically and stored in memory as the recording level to be used with the current input being selected (TUNER, AUX, etc.). From the next time on, this recording level is set automatically for that input even if the key is not pressed.

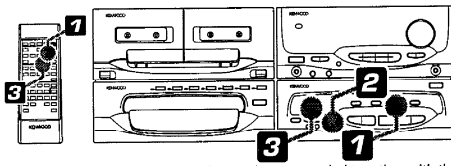
To return to the basic level Hold the key depressed until the indicator goes off (for approx. 3 seconds).

Dolby HX Pro

The Dolby HX Pro headroom extension system records high frequencies such as the cymbal sound clearly by controlling the bias current during recording according to the frequency composition of the sound being recorded. This system is activated automatically during recording with this unit.

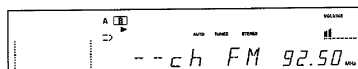
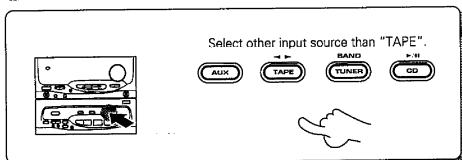
Preparation

- Load a cassette tape in the deck B.
- Select the tape transport direction (◀ or ▶).
- Select "→" (two-side recording) or "→" (one-side recording).
- Select the Dolby NR mode.
- (Insert a disc in the CD player.)



The presence effects applied to the music are recorded together with the music sound.

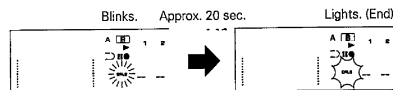
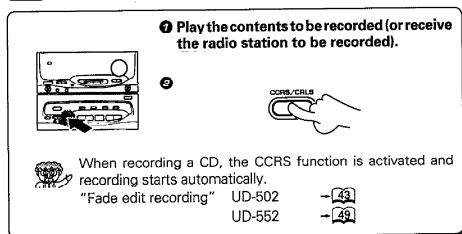
1 Select the source to be recorded.



The source component to be recorded should be displayed.

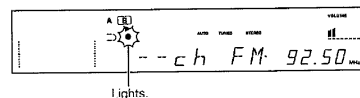
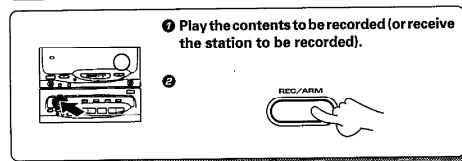
- When the CD is input is selected and if a disc has been set in the CD player, its playback starts immediately.

2 Start auto recording level adjustment.



- The recording level setting completes in approx. 20 seconds, after which the deck enters the record-pause mode.
- If recording is started during the setting (while the CRLS indicator is blinking), distorted sound may be recorded.
- If the CCRS/CRLS key is pressed during the setting (while the indicator is blinking), the setting is interrupted.
- If a non-recorded space of more than 5 seconds is detected after the CCRS/CRLS key is pressed, the recording level setting is aborted.

3 Start recording.



- Recording stops automatically when the tape side(s) to be recorded have been recorded.
- If the DUAL SOUND MIXING knob control is turned during recording with the DUAL SOUND ON, the recorded volume (or the balance between the main and omni inputs) varies.

To stop recording



- When the key is pressed, the tape stops after leaving a non-recorded space of 4 seconds.
- If the key is pressed again within 4 seconds after it has been pressed, recording resumes from that point.

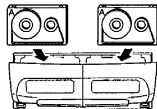
Copying tape (Tape dubbing)



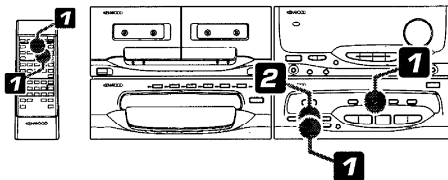
LU-502/552 (En)

Preparation

- Select the "TAPE" input.
- Load tapes in the decks.



- Select "↔" (double-side recording) or "→" (one-side recording).



The contents of the tape in deck A can be copied onto the tape in deck B.

1 Use the same tape transport directions.

Check the tape transport direction indicators.

To reverse the transport direction

- 1 Select the deck to change the transport direction.



- 2 Start playback.



- 3 Press the key again.
- 4 Stop playback.

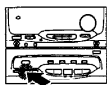


Transport direction.

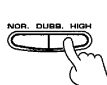
- When recording is started, the tape will be transported in the direction selected in this step.

2 Start dubbing.

For normal-speed dubbing



For high-speed dubbing



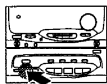
NOR. or HIGH indicators will light.



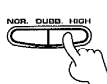
- Dubbing ends automatically when the side(s) to be dubbed has been completed.

To stop dubbing.

For normal-speed dubbing



For high-speed dubbing



- Only deck B enters the stop mode after leaving a non-recorded space of approx. 4 seconds in case of normal-speed dubbing or approx. 6 seconds in case of high-speed dubbing.
- The dubbing can also be stopped by pressing the STOP key. Non-recorded blank is not created in this case.

Notes



1. The DOLBY NR key is not active in dubbing mode. The tape recorded on deck B assumes the same Dolby NR condition as the tape played on deck A.
2. To prevent interference of noise, the unit should be separated at a distance from a TV during high-speed dubbing.
3. To avoid sound quality degradation, use the normal-speed dubbing when dubbing from a tape recorded with a high recording level.

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UD-502 (X-E5) only
For operation of the UD-552, refer to pages 48 to 53.

The system is capable of five types of edit recording which may be selected as follows:

CCRS (Computer Controlled Recording System)

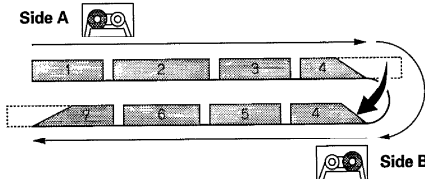
The CCRS allows to record CD on tape with a one-touch operation.

When the CCRS key is pressed, the contents of CD and the characteristics of the tape used are checked in approx. 1 minute (variable depending on CD contents), the recording level is automatically set accordingly and recording starts. After the recording, it is also stopped automatically. Pressing the CCRS key ON switches the DUAL SOUND function automatically OFF.

Select the type of edit recording

Fade edit recording - [49]

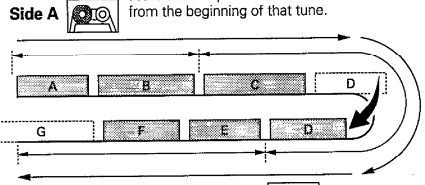
CD tracks are recorded in the order they are recorded. The tune interrupted at the end of tape side A is faded out and side B starts with fading in from the middle of that tune.



Program edit recording - [49]

A CD can be edited recorded by programming desired tracks in a desired order. (Max. 32 tracks)

CD tracks are recorded in the order they are programmed. The tune interrupted in the middle at the end of tape side A is erased and side B starts from the beginning of that tune.

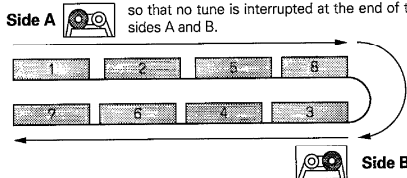


The tune interrupted in the middle at the end of tape side B is erased.

Timed edit recording - [44]

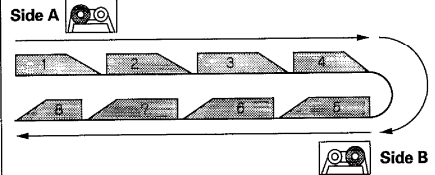
The tracks on a CD are edited and recorded by simply specifying the recording time of tape. (Max. 32 tracks)

The order of CD tracks is changed automatically so that no tune is interrupted at the end of tape sides A and B.

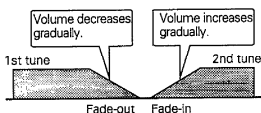




All edit recording - [49]

In case the recording time of tape is shorter than the playing time of CD, all of CD tracks (up to 32) are accommodated by fading out the ending parts. (Max. 32 tracks)



Fade-in/fade-out



 Fade-out : Ending a tune by gradually decreasing the volume.
 Fade-in : Starting a tune by gradually increasing the volume.

Recording desired tracks while playing a CD - [47]

Play a CD and, if a track you want to record starts, press the O.T.E. (ONE TOUCH EDIT) key. The track will be recorded from the beginning.

fade edit recording

CD REC 

UD-502/552 (En)

UD-502
(X-E5)

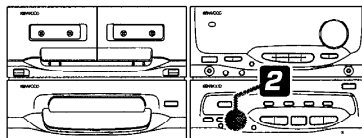
The tune interrupted at the end of tape side A is faded out and side B starts with fading in from the middle of that tune. The tune interrupted at the end of tape side B is simply faded out.

Preparation



- Load a cassette tape in the deck B.
- Select the tape transport direction (◀ or ▶).
- Select "→" (two-side recording).
- Select the Dolby NR mode.
- Select the "CD" input.
- Insert a disc in the CD player.

1



The presence effects applied to the music are recorded together with the music sound.



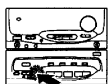
1 Check that the PGM indicator is not lit.



OFF.

TRACK NO.	SINGLE TIME	1	2	3	4	5
0 1	0:00	6	7	8	9	10
		11	12	13	14	15
		16	17	18	19	20

2 Start edit recording.



- The recording level will be adjusted automatically in approx. 1minute (variable depending on the CD contents), after which recording starts.
- The CD tracks are recorded in the order they are recorded on the CD.
- The tape and CD stop automatically when recording has completed.

Notes



1. When the **CCRS** key is pressed during playback of CD, the playback stops and the CCRS setting (preparing edited recording) starts.
2. The automatic recording level setting operation in the edit recording utilizes a section suitable for this purpose in the CD present in the CD player.
3. Edit recording is not possible with CDs containing a track that is longer than one tape side, which may occur with classical music, etc.
4. If the deck is set for one-side recording (→), the processing at the tape end is applied only on side A.
5. When the last tune of tape side B is faded out, the ending part of the last but one tune may sometimes be faded out if the space between it and the last tune is short.



Timed edit recording

UD-502/552 (En)

UD-502
(X-E5)

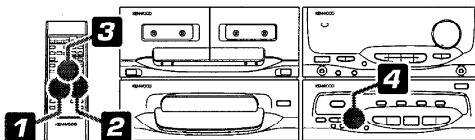
44

By specifying the recording time of the tape used, CD tracks can be recorded with their order automatically changed so that no tune is interrupted at the end of tape sides A and B.

Preparation



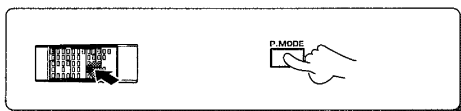
- Load a cassette tape in the deck B.
- Select the tape transport direction (◀ or ▶).
- Select "▷" (two-side recording).
- Select the Dolby NR mode.
- Select the "CD" input.
- Insert a disc in the CD player.



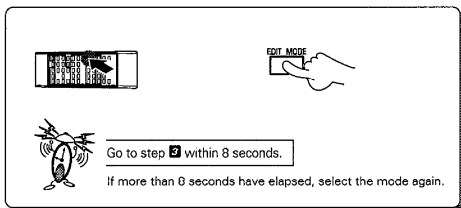
The presence effects applied to the music are recorded together with the music sound.



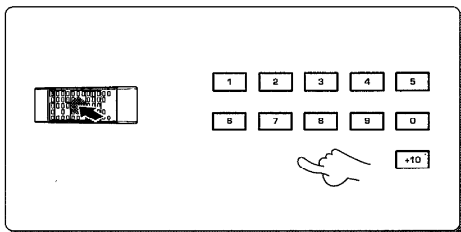
1 Check that the PGM indicator is not lit.



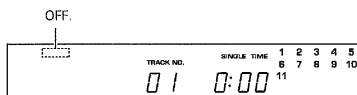
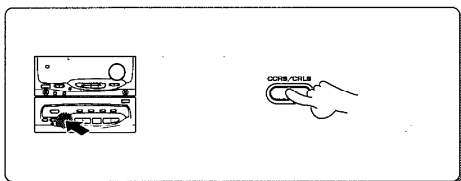
2 Select the "EDIT" mode.



3 Enter the recording length of the tape.

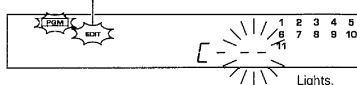


4 Start edit recording.

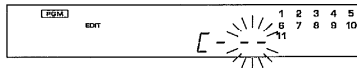


Each press switches the edit modes as follows.

- ① EDIT
- ② AI EDIT Press so that the "EDIT" indicator lights.



- To use the auto space function, press the **SPACE** key.
- To cancel the auto space function, press the **P.MODE** key and restart from step 2.



Press the numeric keys as shown below.

- 30-minute tape : **+10**, **+10**, **+10**, **0**
- 46-minute tape : **+10**, **+10**, **+10**, **+10**, **6**

46-, 54-, 60- or 90-minute tapes can be selected simply by pressing the **TIME** key for the required number of times. (The recording time can be adjusted in 1-minute steps with the ◀ and ▶ keys.)

After entry, press the **EDIT MODE** key then proceed to step 4.

- Up to 32 tracks can be edited.
- CD tracks will be edited automatically onto tape sides A and B. After editing, the "EDIT" indicator stops blinking and starts to light steadily.
- The order of tracks after editing can be displayed in sequence by pressing the **CHECK** key of the remote control unit.
- To cancel the editing, press the **CLEAR** or **P.MODE** key of the remote control unit.

- To cancel the editing, press the **CLEAR** or **P.MODE** key of the remote control unit.
- The recording level will be adjusted automatically in approx. 1 minute (variable depending on CD contents), after which recording starts.
- The tape and CD stop automatically when recording has completed.

Program edit recording



UD-502/552 (En)

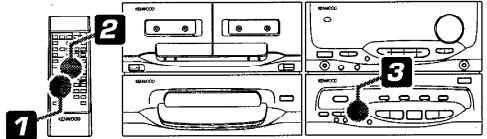
**UD-502
(X-E5)**

Use the following procedure to record CD tracks in the order programmed by yourself so that no tune is interrupted in the middle at the ends of tape sides.

Preparation

-39-

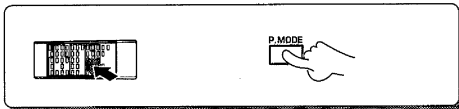
- Load a cassette tape in the deck B.
- Select the tape transport direction (◀ or ▶).
- Select "→" (two-side recording).
- Select the Dolby NR mode.
- Select the "CD" input.
- Insert a disc in the CD player.



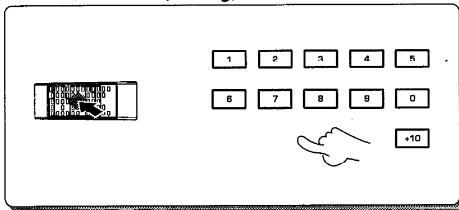
The presence effects applied to the music are recorded together with the music sound.

-56-

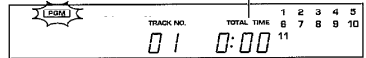
1 Activate the PGM mode.



2 Enter CD track Nos. in the order you want to record them. (Editing)



Lights. "SINGLE TIME" changes to "TOTAL TIME".



Press the numeric keys as shown below.

To enter track Nos. 2, 5 and 25 : [2], [5], [+10], [+10], [5]

Displays the entered track No. for a few seconds.

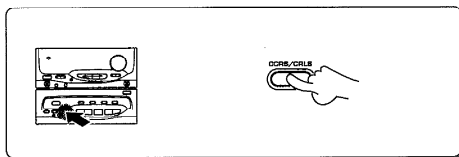


Displays the total playing time the programmed CD tracks.



- Up to 32 tracks can be programmed. FULL is displayed if you attempt to program a 33rd track.
- If you make a mistake, press the CLEAR key and enter the track No. from the beginning.
- It is also possible to select tracks by referring to the disc label while the tray is open.
- If a track No. larger than 44 is programmed, the remaining time on the disc will not be displayed.
- The order of tracks after editing can be displayed in sequence by pressing the CHECK key of the remote control unit.
- To cancel the editing, press the CLEAR or P.MODE key of the remote control unit.

3 Start edit recording.



- The recording level will be adjusted automatically in approx. 1 minute (variable depending on CD contents), after which recording starts.
- The tape and CD stop automatically when recording has completed.
- The time displayed during recording is the remaining time on the current tape side.

Notes

1. When the CCRS key is pressed during playback of CD, the playback stops and the CCRS setting (preparing edited recording) starts.
2. The automatic recording level setting operation in the edit recording utilizes a section suitable for this purpose in the CD present in the CD player.
3. Edit recording is not possible with CDs containing a track that is longer than one tape side, which may occur with classical music, etc.
4. If the deck is set for one-side recording (→), the processing at the tape end is applied only on side A.





AI edit recording

UD-502/552 (En)

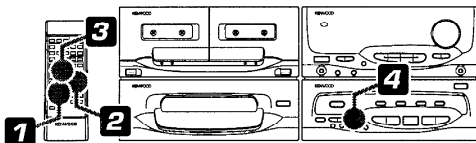
UD-502
(X-E5)

In case the recording time of tape is shorter than the playing time of the CD to be recorded, all of CD tracks (up to 32) can be accommodated by fading out the ending parts.

Preparation



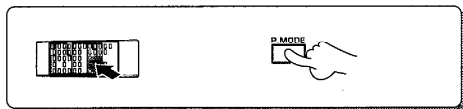
- Load a cassette tape in the deck B.
- Select the tape transport direction (◀ or ▶).
- Select "→" (two-side recording).
- Select the Dolby NR mode.
- Select the "CD" input.
- Insert a disc in the CD player.



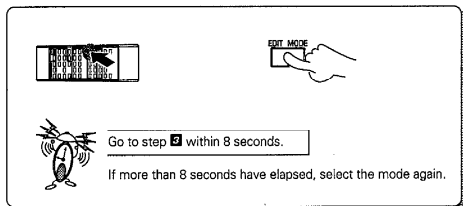
The presence effects applied to the music are recorded together with the music sound.



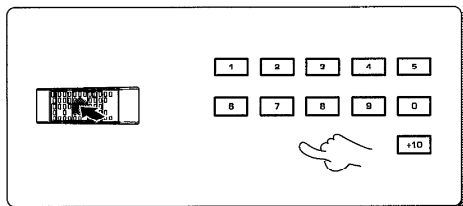
1 Check that the PGM indicator is not lit.



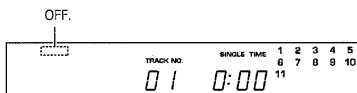
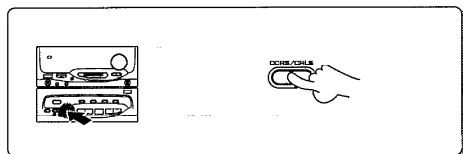
2 Select the "AI EDIT" mode.



3 Enter the recording length of the tape.



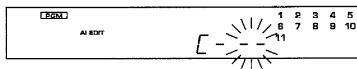
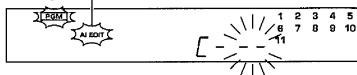
4 Start edit recording.



Each press switches the edit modes as follows.

- ① EDIT
- ② AI EDIT

Lights. Press so that the "AI EDIT" indicator lights.



Press the numeric keys as shown below.

- 30-minute tape : [+10], [+10], [+10], [0]
- 46-minute tape : [+10], [+10], [+10], [+10], [6]



46-, 54-, 60- or 90-minute tapes can be selected simply by pressing the TIME key for the required number of times. (The recording time can be adjusted in 1-minute steps with the i◀◀ and ▶▶ keys.)

After entry, press the EDIT MODE key then proceed to step 4.

- CD tracks will be edited automatically onto tape sides A and B. After editing, the "AI EDIT" indicator stops blinking and starts to light steadily.
- To cancel the editing, press the CLEAR or P.MODE key of the remote control unit.

- The recording level will be adjusted automatically in approx. 1 minute (variable depending on CD contents), after which recording starts.
- If the specified tape recording length is long enough, all CD tracks will be recorded without being faded out.
- The tape and CD stop automatically when recording has completed.

Recording desired tracks while playing a CD



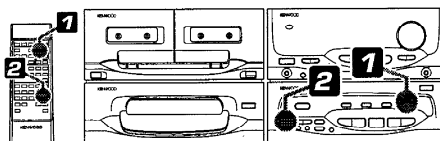
UD-502/552 (En)

UD-502
(X-E5)

Preparation

-32

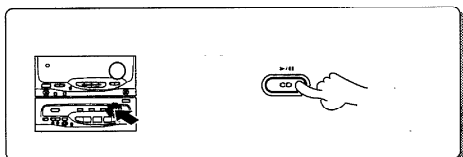
- Load a cassette tape in the deck B.
- Select the tape transport direction (◀ or ▶).
- Select "→" (two-side recording) or "→→" (one-side recording).
- Select the Dolby NR mode.
- Select the "CD" input.
- Insert a disc in the CD player.



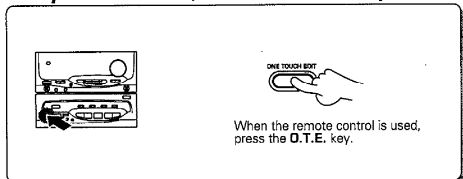
The presence effects applied to the music are recorded together with the music sound.

The following procedure allows you to record CD tracks by selecting them while playing a CD.

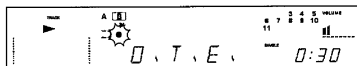
1 Play a CD.



2 When you want to record a track being played, press the O.T.E. (ONE TOUCH EDIT) key.

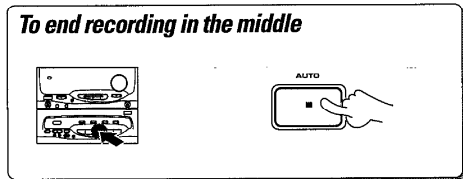


In case the key is pressed with track No.3



- Playback restarts from the beginning of the track being played and recording starts at the same time.
- When the track has been played, the cassette deck stops after leaving a non-recorded blank of 4 seconds. But the CD player continues playback.
- When you feel like recording another track being played, press the O.T.E. key again.
- The time display shows the remaining time of each track.

To end recording in the middle



- Both the cassette deck and CD player stop.



CD edit recording

UD-502/552 (En)

UD-552 (X-ME5) only

For operation of the UD-502, refer to pages 42 to 47.

The system is capable of four types of edit recording which may be selected as follows:

CCRS (Computer Controlled Recording System)

The CCRS allows to record CD on tape with a one-touch operation.

When the CCRS key is pressed, the contents of CD and the characteristics of the tape used are checked in approx. 1 minute (variable depending on CD contents), the recording level is automatically set accordingly and recording starts. After the recording, it is also stopped automatically. Pressing the CCRS key ON switches the DUAL SOUND function automatically OFF.

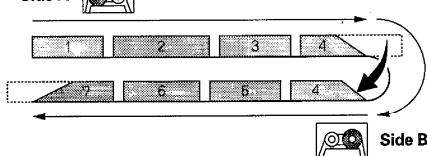
Select the type of edit recording

Fade edit recording

-[49]

CD tracks are recorded in the order they are recorded. The tune interrupted at the end of tape side A is faded out and side B starts with fading in from the middle of that tune.

Side A



Side B

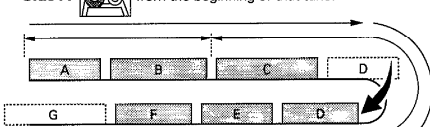
Program edit recording

-[51]

Only the desired tracks on the CD can be programmed and recorded. (Max. 32 tracks)

CD tracks are recorded in the order they are programmed. The tune interrupted in the middle at the end of tape side A is erased and side B starts from the beginning of that tune.

Side A



The tune interrupted in the middle at the end of tape side B is erased.

Side B

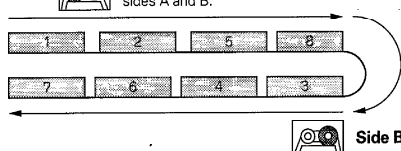
Timed edit recording

-[50]

The tracks on a CD are edited and recorded by simply specifying the recording time of tape. (Max. 32 tracks)

The order of CD tracks are changed automatically so that no tune is interrupted at the end of tape sides A and B.

Side A



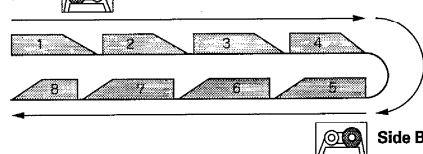
Side B

AI edit recording

-[52]

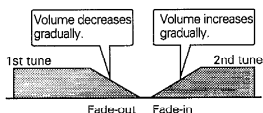
In case the recording time of tape is shorter than the playing time of CD, all of CD tracks (up to 32) are accommodated by fading out the ending parts. (Max. 32 tracks)

Side A



Side B

Fade-in/fade-out



Fade-out : Ending a tune by gradually decreasing the volume.

Fade-in : Starting a tune by gradually increasing the volume.

Recording desired tracks while playing a CD

-[53]

Play a CD and, if a track you want to record starts, press the O.T.E. (ONE TOUCH EDIT) key. The track will be recorded from the beginning.

Fade edit recording



UD-502/552 (En)

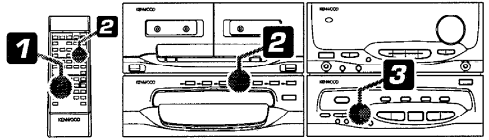
UD-552
(X-ME5)

The tune interrupted at the end of tape side A is faded out and side B starts with fading in from the middle of that tune. The tune interrupted at the end of tape side B is simply faded out.

Preparation



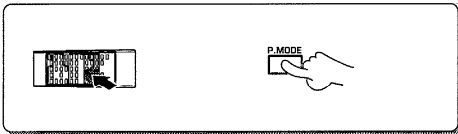
- Load a cassette tape in the deck B.
- Select the tape transport direction (◀ or ▶).
- Select "2" (two-side recording).
- Select the Dolby NR mode.
- Select the "CD" input.
- Insert a disc(s) in the CD player.



The presence effects applied to the music are recorded together with the music sound.



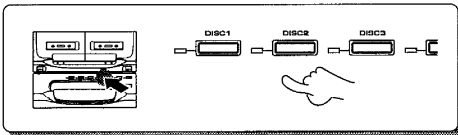
1 Make sure that the "PGM" indicator is off.



Should be OFF.

DISC NO.	TRACK NO.	SINGLE TIME	1	2	3	4	5
1	01	0:00	6	7	8	9	10
			11	12	13	14	15
			16	17	18	19	20

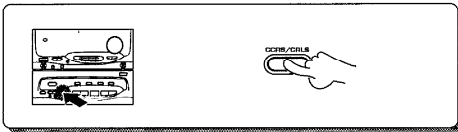
2 Select the disc.



Selected disc No.

DISC NO.	TRACK NO.	SINGLE TIME	1	2	3	4	5
2	01	0:00	6	7	8	9	10
			11				

3 Start edit recording.



- The recording level will be adjusted automatically in approx. 1 minute (variable depending on CD contents), after which recording starts.
- The CD tracks are recorded in the order they are recorded on the CD.
- The tape and CD stop automatically when recording has completed.

Notes



1. When the **CCRS** key is pressed during playback of CD, the playback stops and the CCRS setting (preparing edited recording) starts.
2. The automatic recording level setting operation in the edit recording utilizes a section suitable for this purpose in the CD present in the CD player.
3. Edit recording is not possible with CDs containing a track that is longer than one tape side, which may occur with classical music, etc.
4. If the deck is set for one-side recording (◀), the processing at the tape end is applied only on side A.
5. When the last tune of tape side B is faded out, the ending part of the last but one tune may sometimes be faded out if the space between it and the last tune is short.



Time edit recording

UD-502/552 (En)

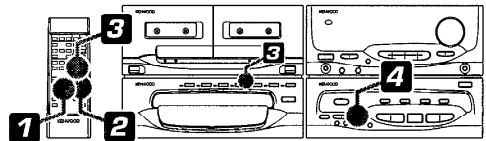
UD-552
(X-ME5)

By specifying the recording time of the tape used, CD tracks can be recorded with their order automatically changed so that no tune is interrupted at the end of tape sides A and B. (Max. 32 tracks)

Preparation

- [39]

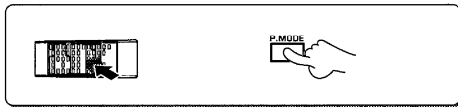
- Load a cassette tape in deck B.
- Select the tape transport direction (◀ or ▶).
- Select "→" (two-side recording).
- Select the Dolby NR mode.
- Select the "CD" input.
- Insert disc(s) in the CD player.



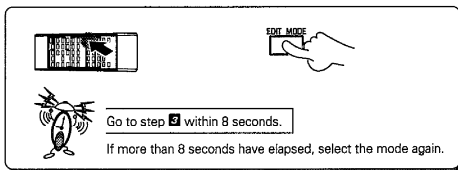
The presence effects applied to the music are recorded together with the music sound.

- [56]

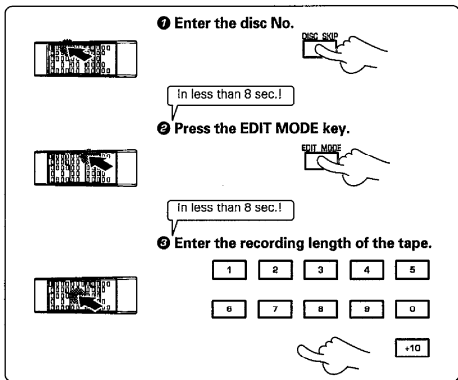
1 Make sure that the "PGM" indicator is off.



2 Select the "EDIT" mode.



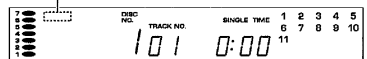
3 Enter the disc and tape conditions.



4 Start edit recording.



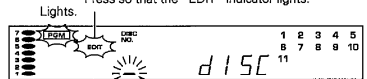
Should be OFF.



Each press switches the edit modes as follows.

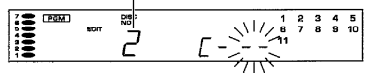
- 1 EDIT
- 2 AI EDIT

Press so that the "EDIT" indicator lights.



- To use the auto space function, press the **SPACE** key. To cancel the auto space function, press the **P.MODE** key and restart from step 2.

Selected disc No.



Press the numeric keys as shown below.

- 30-minute tape : [+10] [+10] [+10] [0]
46-minute tape : [+10] [+10] [+10] [+10] [6]



46-, 54-, 60- or 90-minute tapes can be selected simply by pressing the **TIME** key for the required number of times. (The recording time can be adjusted in 1-minute steps with the ◀ and ▶ keys.)
After entry, press the **EDIT MODE** key then proceed to step 4.

- Up to 32 tracks can be edited.
- CD tracks will be edited automatically onto tape sides A and B. After editing, the "EDIT" indicator stops blinking and starts to light steadily.
- The order of tracks after editing can be displayed in sequence by pressing the **CHECK** key of the remote control unit.
- To cancel the editing, press the **CLEAR** or **P.MODE** key of the remote control unit.

- The recording level will be adjusted automatically in approx. 1 minute (variable depending on CD contents), after which recording starts.
- The tape and CD stop automatically when recording has completed.

Program edit recording



UD-502/552 (En)

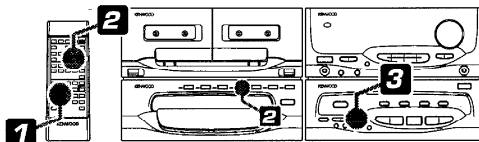
**UD-552
(X-ME5)**

Use the following procedure to record CD tracks in the order programmed by yourself so that no tune is interrupted in the middle at the ends of tape sides. (Max. 32 tracks)

Preparation



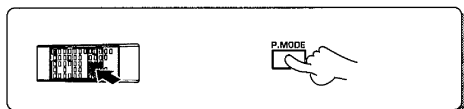
- Load a cassette tape in deck B.
- Select the tape transport direction (◀ or ▶).
- Select "D" (two-side recording).
- Select the Dolby NR mode.
- Select the "CD" input.
- Insert disc(s) in the CD player.



The presence effects applied to the music are recorded together with the music sound.



1 Activate the PGM mode.



Only "SINGLE TIME" display is shown in PGM mode.



2 Enter disc Nos. and track Nos. in the order you want to record them. (Editing)

① Enter the disc No.

② Enter the track No.

Within 8 seconds!

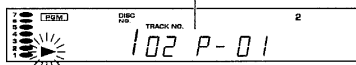
1 2 3 4 5

6 7 8 9 0

+10

To edit tracks from more than one CD, repeat ① and ② for each CD.

Displays the entered track No.



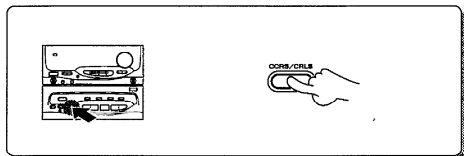
Press the numeric keys as shown below...

To enter track Nos. 2, 5 and 25:

2, 5, +10, +10, 5

- Select CD tracks so that their total playing time does not exceed the recording time of the tape.
- Up to 32 tracks can be programmed. *FULL* is displayed if you attempt to program a 33rd track.
- If you make a mistake, press the **CLEAR** key and enter the track No. from the beginning.
- The **CCRS** setting will not occur if the track No. is not selected within 8 seconds after having selected the disc No.
- The **SPACE** key and **REPEAT** key are invalid.
- The order of tracks after editing can be displayed in sequence by pressing the **CHECK** key of the remote control unit.
- To cancel the editing, press the **CLEAR** or **P.MODE** key of the remote control unit.

3 Start edit recording.



- The recording level will be adjusted automatically in approx. 1 minute (variable depending on CD contents), after which recording starts.
- In editing from more than one CD, the **CCRS** setting operation is performed after every disc change. In this case, the deck stops automatically and restart recording after having completed the **CCRS** operation.
- The tape and CD stop automatically when recording has completed.

Notes



1. When the **CCRS** key is pressed during playback of CD, the playback stops and the **CCRS** setting (preparation for edited recording) starts.
2. The automatic recording level setting operation in the edit recording utilizes a section suitable for this purpose in the CD present in the CD player.
3. Edit recording is not possible with CDs containing a track that is longer than one tape side, which may occur with classical music, etc.
4. If the deck is set for one-side recording (◀), the processing at the tape end is applied only on side A.



AI edit recording

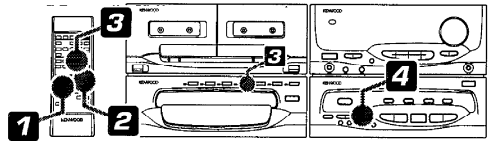
UD-502/552 [En]

UD-552
(X-ME5)

In case the recording time of tape is shorter than the playing time of the CD to be recorded, all of CD tracks (up to 32) can be accommodated by fading out the ending parts.

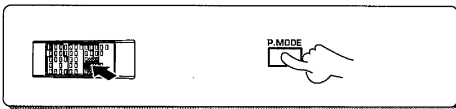
Preparation

- Load a cassette tape in deck B.
- Select the tape transport direction (◀ or ▶).
- Select "↔" (two-side recording).
- Select the Dolby NR mode.
- Select the "CD" input.
- Insert disc(s) in the CD player.

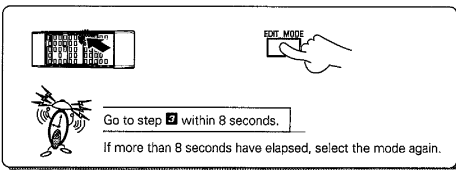


The presence effects applied to the music are recorded together with the music sound.

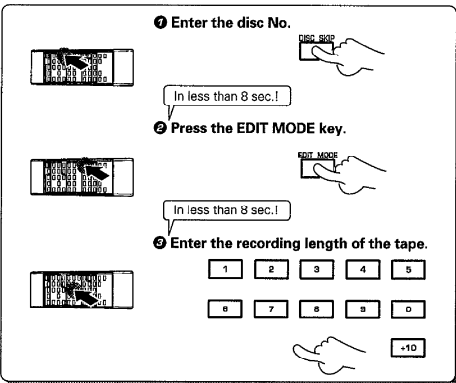
1 Make sure that the "PGM" indicator is off.



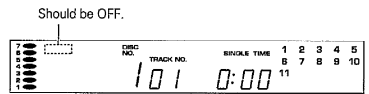
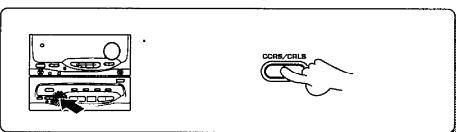
2 Select the "AI EDIT" mode.



3 Enter the disc and tape conditions.

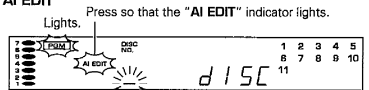


4 Start edit recording.

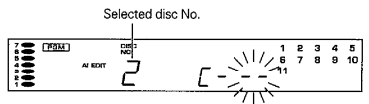


Each press switches the edit modes as follows.

- ① EDIT
- ② AI EDIT



● The SPACE key and REPEAT key are invalid.



Press the numeric keys as shown below....

- 30-minute tape: [+10] [+10] [+10] [0]
- 46-minute tape: [+10] [+10] [+10] [+10] [8]

46-, 54-, 60- or 90-minute tapes can be selected simply by pressing the TIME key for the required number of times. (The recording time can be adjusted in 1-minute steps with the ◀ and ▶ keys.) After entry, press the EDIT MODE key then proceed to step 4.

- CD tracks will be edited automatically onto tape sides A and B. After editing, the AI EDIT indicator stops blinking and starts to light steadily.
- To cancel the editing, press the CLEAR or P.MODE key of the remote control unit.

- The recording level will be adjusted automatically in approx. 1 minute (variable depending on CD contents), after which recording starts.
- If the specified tape recording length is long enough, all CD tracks will be recorded without being faded out.
- The tape and CD stop automatically when recording has completed.

Recording desired tracks while playing a CD



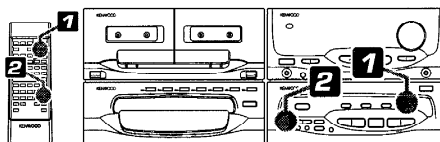
UD-502/552 (En)

UD-552
(X-ME5)

Preparation

-32

- Load a cassette tape in the deck B.
- Select the tape transport direction (◀ or ▶).
- Select "⇒" (two-side recording) or "⇐⇒" (one-side recording).
- Select the Dolby NR mode.
- Select the "CD" input.
- Insert a disc in the CD player.

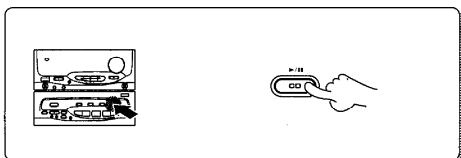


The presence effects applied to the music are recorded together with the music sound.

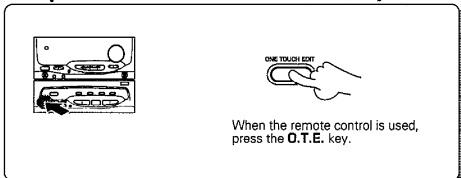
-56

The following procedure allows you to record CD tracks by selecting them while playing a CD.

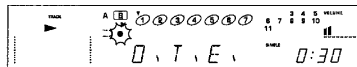
1 Play a CD.



2 When you want to record a track being played, press the O.T.E. (ONE TOUCH EDIT) key.

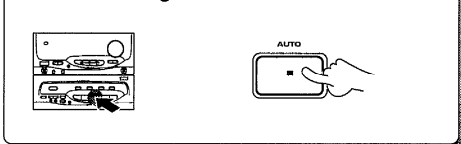


In case the key is pressed with track No.3



- Playback restarts from the beginning of the track being played and recording starts at the same time.
- When the track has been played, the cassette deck stops after leaving a non-recorded blank of 4 seconds. But the CD player continues playback.
- When you feel like recording another track being played, press the O.T.E. key again.
- The time display shows the remaining time of each track.

To end recording in the middle



- Both the cassette deck and CD player stop.

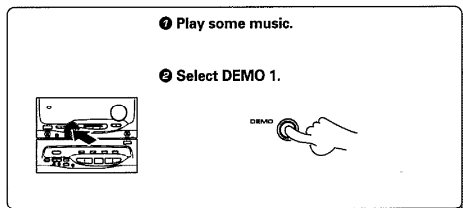
The system allows you to select 4 kinds of graphic equalizer patterns and 4 kinds of presence (sound field) modes. Select graphic equalizer patterns according to the genre of music and select the presence modes according to the acoustic ambience required.

Demonstration

This feature applies various tone adjustment effects of the graphic equalizer and presence sound fields in sequence with the sound. The display also changes as the applied effects change. Check out the tone adjustment effects both visually and aurally.

DEMO 1

Provides demonstrations of the graphic equalizer patterns, presence modes and the long play mode.



Each press of the key switches the demonstration modes as follows.

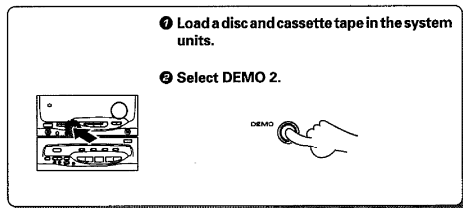
- ① DEMO 1
- ② DEMO 2
- ③ OFF

To cancel

Press the DEMO key to select "OFF".

DEMO 2

Provides demonstrations of DEMO 1 while playing the CD player, cassette deck and tuner automatically.



Each press of the key switches the demonstration modes as follows.

- ① DEMO 1
- ② DEMO 2
- ③ OFF

● The input is switched as shown below, and DEMO 1 is applied to each input.

- ① CD
- ② TAPE
- ③ TUNER
- ④ AUX

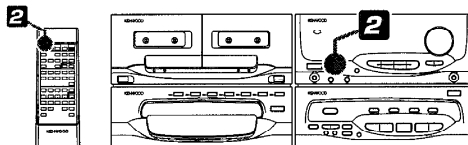
To cancel

Press the DEMO key to select "OFF".

Note

Demonstration also starts automatically when the power plug is unplugged then plugged while the power is ON or when the power supply has recovered from a failure.



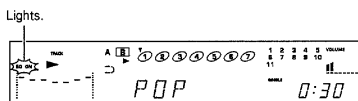
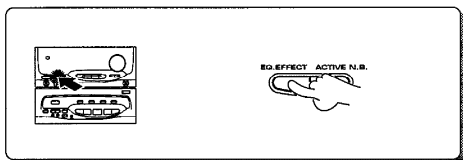


Playing music with the desired tone

The graphic equalizer patterns can be selected according to the genre of music played. The graphic equalizer effect applied to the sound can be recorded together with the sound.

1 Play the desired music.

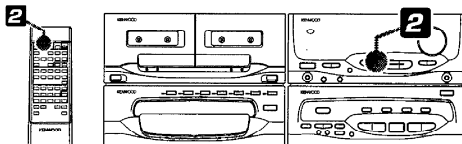
2 Select the music category.



Display characters scroll from the right to the left.

Each press of the key switches the patterns as follows.

- ① POP (Popular)
- ② ROCK (Rock)
- ③ JAZZ (Jazz)
- ④ CLASSIC (Classic)
- ⑤ EQ . OFF (Equalizer OFF)

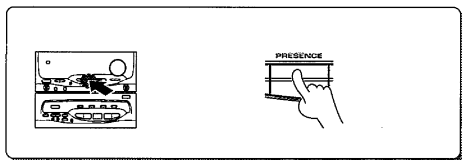


Enjoying music with the presence effect (presence modes)

The presence (sound field) mode can be selected according to the music played and to your liking. The presence effect applied to the sound can be recorded together with the sound.

1 Play a desired music.

2 Select a presence sound field.






Each press of the key switches the patterns as follows.

- ① **ARENA**
Reproduction of a live feeling as if the listener is in the first row of the arena seat.
- ② **JAZZ CLUB**
Reproduction of a jazz live house where cymbals resound.
- ③ **STADIUM**
Reproduction of an open atmosphere with little reverberations which are usually reflected from the ceiling.
- ④ **HIT MASTER** (Vocal canceller)
For use in karaoke singing.
- ⑤ **PRESENCE OFF** (Presence OFF)

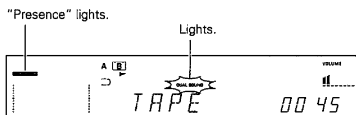
Combining the presence mode and environmental sound

The presence effect sound and the environmental sound (played from CD) can be mixed with the music to provide it with an enhanced feeling of presence.

- ① Play the desired music.
- ② Select the desired presence mode.
- ③ Turn the DUAL SOUND ON.
- ④ Play an environmental sound of CD.
- ⑤ Adjust the volume balance.

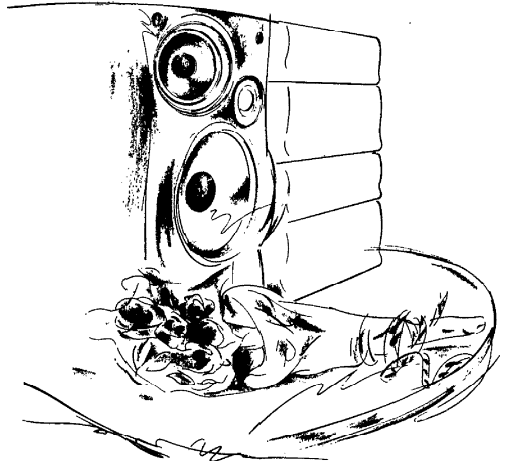




DUAL SOUND MIXING



To cancel

To turn DUAL SOUND OFF: Press the DUAL SOUND key.
To turn presence mode OFF: Press the PRESENCE key.





Timer operation

Adjust the clock before setting the timer.

UD-502/552 (En)

58

The timer function makes it possible to record sound without your attendance or to wake up to music.

Timer playback (recording)

Plays the selected source at the set ON time.

-[38]

AI timer playback

When timer playback starts, the volume increases gradually.

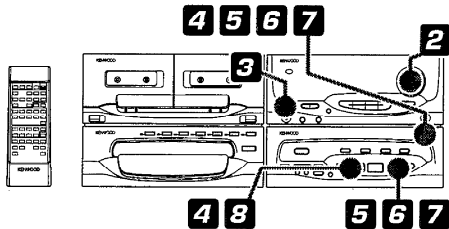
-[58]

(The volume increase of the AI timer can be stopped by operating the receiver.)

Sleep timer

The power is turned OFF automatically after the specified period has elapsed.

-[61]



Timer programming

1 Make preparations for the play (recording).

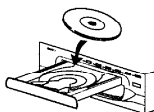
●To listen to radio

The station should be preset prior to the above.

-[36]

●To listen to CD

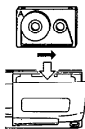
Insert a disc. (Program playback is not possible.)



The CD must be loaded in disc bank No. 1; otherwise timer playback will not be possible. (UD-552)

●To listen to tape

Insert a tape.



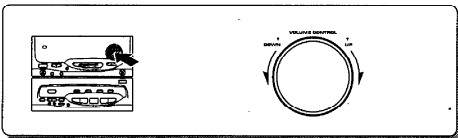
If tapes are inserted in both decks A and B, playback starts with the tape in deck B.

●Playing the auxiliary input source
Make timer setting of the component connected to the AUX jacks.

●For recording
Make preparations for recording.

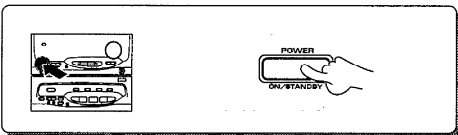
-[39]

2 Adjust the listening volume.

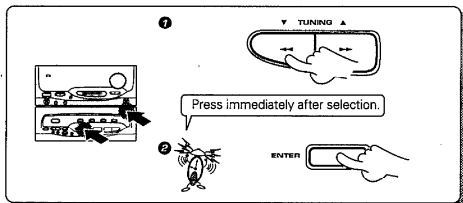


●When recording radio, the listening volume is automatically set to the minimum volume at the moment the power is turned ON by the timer.

3 Set the POWER switch to OFF (STAND BY) position.



4 Select a program No.

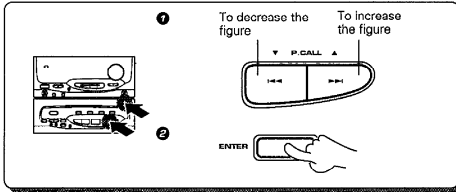


●The selected program No. lights.
●If a program No. under which a timer program has already been reserved, it is replaced by the new timer program.

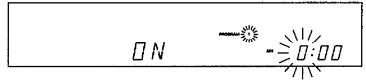
Each press of the key switches the program numbers as follows.

- ① PROG.1 (Program 1)
- ② PROG.2 (Program 2)
- ③ Normal operation

5 Enter the ON time.

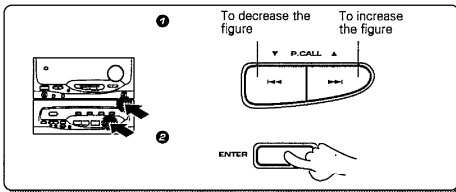


- After entering the figure of "hour" with the procedure in ① an ②, enter the figure of "minute" using the same procedure.

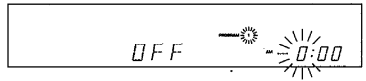


- If you commit a mistake, restart from step ④.

6 Enter the OFF time.



- After entering the figure of "hour" with the procedure in ① an ②, enter the figure of "minute" using the same procedure.

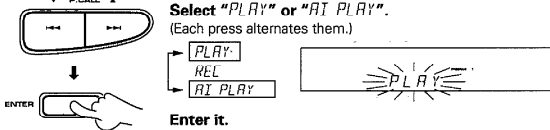


- If you commit a mistake, restart from step ④.

7 Make the desired reservation.

For timer playback or AI timer playback

① Select the mode.

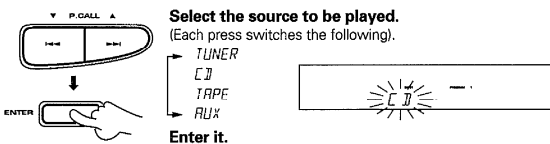


Select "PLAY" or "AI PLAY".
(Each press alternates them.)

PLAY
REL
AI PLAY

Enter it.

② Select the input source.

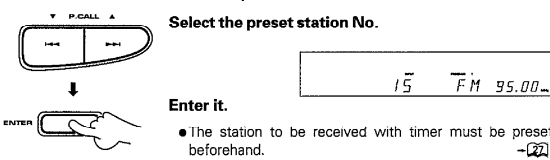


Select the source to be played.
(Each press switches the following).

TUNER
CD
TAPE
AUX

Enter it.

③ Select the broadcast station (only when TUNER is selected above).



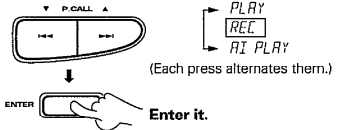
Select the preset station No.

Enter it.

- The station to be received with timer must be preset beforehand.

For timer recording

① Select the mode.



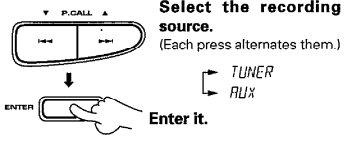
Select "REC".

PLAY
REC
AI PLAY

(Each press alternates them.)

Enter it.

② Select the input source.

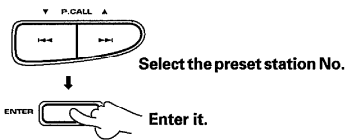


Select the recording source.
(Each press alternates them.)

TUNER
AUX

Enter it.

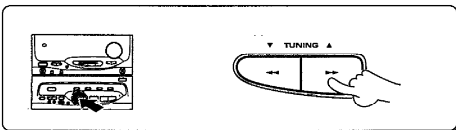
③ Select the broadcast station (only when TUNER is selected above).



Select the preset station No.

Enter it.

8 Select the timer program No. to be used.



Each press of the key switches the program numbers as follows.

- PROG.1 Execution of program 1 only.
- PROG.2 Execution of program 2 only.
- PROG.1 2 Execution of programs 1 and 2.
- Timer OFF

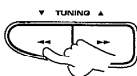
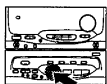
- The selected program No. lights.
- The timer will not function unless a program No. is selected.



Ensure that the power is OFF

Check the reservation content.

Select the program number to be checked.



Each press of the key switches the program numbers as follows.

- **PROG.1** (Program 1)
- **PROG.2** (Program 2)
- Normal mode

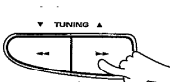
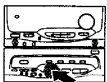
- The reserved contents will be displayed for 3 seconds per item. After this, the previous display content appears again.

To change the reserved contents

Restart the procedure of "Timer programming" from the beginning.

When timer operation is not required

Press so that all PROG. indicators are OFF.



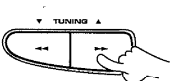
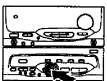
Each press of the key switches the program numbers as follows.

- **PROG.1** (Program 1)
- **PROG.2** (Program 2)
- **PROG.1 2**
- Timer OFF

- The reservation contents are held in memory.

To set the same timer program again

Press so that the desired PROG. indicators lights.



Each press of the key switches the program numbers as follows.

- **PROG.1** (Program 1)
- **PROG.2** (Program 2)
- **PROG.1 2**
- Timer OFF

- Also prepare the disc or tape and adjust the listening volume.

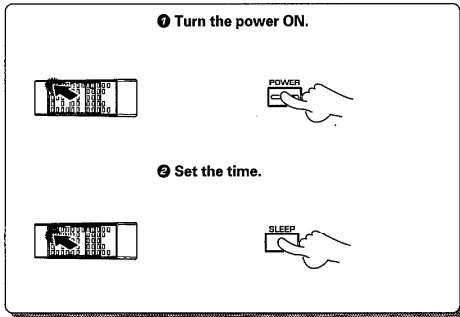
Note

The reservation contents cannot be cleared. The contents are cleared only when they are changed.



Sleep timer

Set the number of minutes after which the power is to be turned OFF.



- The power is turned OFF automatically after the set time has elapsed.
- Each press decreases the time by 10 minutes. The maximum time that can be set is 90 minutes.

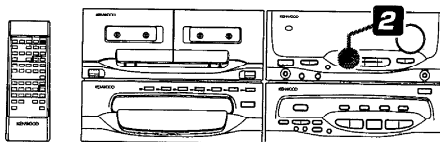
90→80→70...30→20→10→Cancel→90→80...



Duration for sleep timer.

To cancel

Turn the power OFF or press the SLEEP key until the sleep time is cancelled.

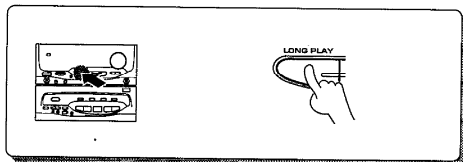


Long play mode

This mode automatically provides an equalization curve to provide fatigue-free listening. It will also select the appropriate play mode of the source selected.

1 Play the desired music.

2 Press the **LONG PLAY** key.

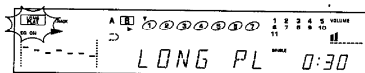


When the selected input is

CD: **REPEAT** mode will be selected.

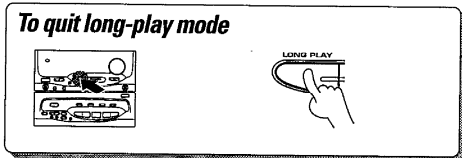
TAPE: "A" is selected if tapes are present in both decks, and "B" is selected in other case.

- If the desired input (CD or TAPE) has already been selected, playback in the Long Play mode can be started by simply pressing the key in stop mode.

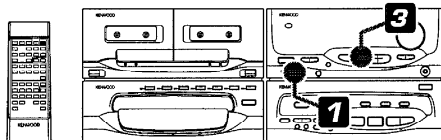


Display characters scroll from the right to the left.

To quit long-play mode



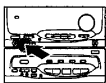
- The **LONG PLAY** display goes out.
- Normal play of the same source, CD or TAPE, continues.



Easy karaoke singing (HIT MASTER)

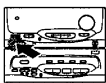
1 Connect a microphone.

① Turn the MIC MIXING control fully counterclockwise.



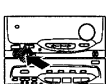
MIC MIXING

② Plug the microphone into the MIC jack.




MIC MIXING

③ Adjust the volume balance between the music input and microphone input.



MIC MIXING

To decrease microphone volume

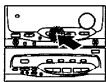


To increase microphone volume

- Use a microphone equipped with a mini-plug.
- Set the **MIC MIXING** control to the fully counterclockwise position when the microphone is not used.

2 Play the music.

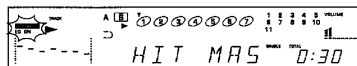
3 Select HIT MASTER.



PRESENCE

Each press of the key switches the mode as follows.

- ① ARENA
- ② JAZZ CLUB
- ③ STADIUM
- ④ HIT MASTER
- ⑤ PRESENCE OFF (Presence OFF)



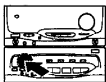
Display characters flow from the right to the left.

- The volume of the vocal parts of the song decreases. However, this effect may not be clear with some songs and discs.

4 Sing along with the accompaniment.

To record karaoke singing

① Perform the procedure above until step ③



② Start recording.

During karaoke singing using the song recorded on a tape, the karaoke sound cannot be recorded.

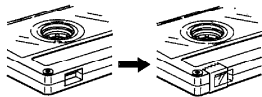
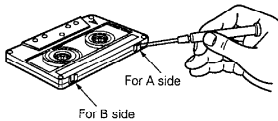


A karaoke tape can be created by recording the performance while the **MIC MIXING** control is in the fully counterclockwise position.

Notes on cassette tape

Safety tab (accidental erasure prevention tab)

After an important recording has been finished, break the safety tab, to prevent the recorded contents from being erased or recorded on accidentally.

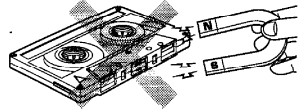


To re-record

Apply tape only to the position where the tab has been removed.

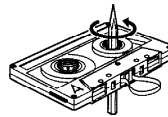
To store cassette tapes

do not store the tapes in a place which is subject to direct sunlight, or near equipment that generates heat. Keep the cassette tapes away from any magnetic field.



When there is slack in the tape

In such a case, insert a pencil into the reel hole and wind the reel hub to remove the slack.



Notes



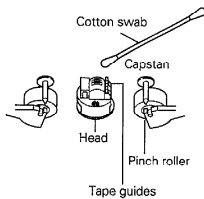
1. 120-minute cassette tape

Since a 120-minute cassette tape is very thin, the tape could adhere to the pinch roller or be easily broken. It is recommended that these tapes not be used with this unit to prevent possible damage.

2. Endless tapes

Do not use an endless tape, as this could damage the mechanism of the unit.

Cleaning the head section



Cleaning the heads and peripheral components

For maintaining the best condition of the deck and for longer service life, always keep the heads (recording / playback / erase), capstan and pinch roller clean. To clean them, perform the following:

1. Open the cassette holder.
2. Using a cotton swab dipped in alcohol, clean the head (recording / playback / erase), capstan and pinch roller carefully.

Demagnetizing the head

When the recording / playback head is magnetized, the sound quality will deteriorate. In such a case, demagnetize the head using a commercially available demagnetizer (head eraser).

Note



There are precisely aligned parts around the heads, including the tape guides. When cleaning, pay special attention so as not to apply shock to them.

Beware of condensation

When water vapor comes into contact with the surface of a cold material, condensation is produced.

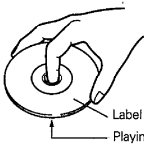
If condensation occurs, correct operation may not be possible, or the unit may not function correctly.

This is not a malfunction, however, and the unit should be dried-out. (To do this, turn the POWER switch ON and leave the unit as it is for several hours.)

Be especially careful in the following conditions:

- When the unit is brought from a cold place to a warm place, and there is a large temperature difference.
- When a heater starts operating.
- When the unit is brought from an air-conditioned place to a place of high temperature with high humidity.
- When there is a large difference between the internal temperature of the unit and the ambient temperature, or in conditions where condensation occurs easily.

Disc handling precautions



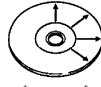
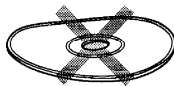
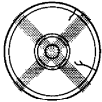
Handling

Hold compact discs so that you do not touch the playing surface.



Do not attach paper or tape to either the playing side or the label side of compact discs.

Caution on disc used



Cleaning

If fingerprints or foreign matter become attached to the disc, lightly wipe the disc with a soft cotton cloth (or similar) from the center of the disc outwards in a radial manner.



Storage

When a disc is not to be played for a long period of time, remove it from the CD player and store it in its case.

Never play cracked or warped disc.

During playback, the disc rotates at high speed in the player. Therefore, to avoid malfunction, never use a cracked or deformed disc or a disc repaired with tape or adhesive agent.

Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.
"DOLBY" and the double-D symbol and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

WARNING NOTICE:

IN MOST CASES IT IS AN INFRINGEMENT OF COPYRIGHT TO MAKE COPIES OF TAPES OR DISCS WITHOUT THE PERMISSION OF THE COPYRIGHT OWNERS. ANYONE WISHING TO COPY COMMERCIALY AVAILABLE TAPES OR DISC SHOULD CONTACT THE MECHANICAL COPYRIGHT PROTECTION SOCIETY LIMITED OR THE PERFORMING RIGHTS SOCIETY LIMITED.

When your unit needs to be repaired, bring the entire set (Speakers excluded) to your dealer.

Memory backup function

Stored contents which are cleared immediately when power plug is unplugged from power outlet

Clock display

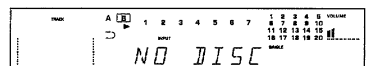
Stored contents which are cleared in at least 3 days after power plug is unplugged from power outlet

Receiver unit
POWER status (ON or OFF)
Input selection
Volume control value
Tuner unit
Receiving band
Frequency
Preset stations
Program settings
Cassette deck unit
Transport direction
DOLBY NR
Play back mode

Note related to transportation and movement (CD player)

Before transporting or moving this unit, carry out the following operations.

1. Turn the power ON but do not load a disc.
● Press the CD (▶/⏸) key to check that no disc is present on the tray.
2. Wait a few seconds and verify that the display shown appears.



This illustration shows the UD-552.

3. Turn the power OFF.

Remote control unit

66

Symptom	Cause	Remedy
Remote control operation is not possible.	<ul style="list-style-type: none"> ● Batteries are exhausted. ● The remote control is too far away from the system, the controlling angle is deviated or there is an obstacle in between. ● There is no tape or CD set in the component to be played. ● An attempt is made to play the cassette deck which is recording something. 	<ul style="list-style-type: none"> ● Replace with new batteries. - [13] ● Operate the unit inside the remote controllable range. - [13] ● Set a tape or CD in the component to be played. ● Wait until the recording ends.

Receiver unit, speakers

Symptom	Cause	Remedy
Sound is not produced.	<ul style="list-style-type: none"> ● The speaker cords are disconnected. ● The volume control is set to the minimum position. ● The MUTE switch of remote control unit is switched ON. ● The headphone plug is inserted into the jack. 	<ul style="list-style-type: none"> ● Connect properly referring to "Connections". ● Adjust to an required volume. - [15] ● Switch MUTE OFF. ● Unplug the headphone plug.
The character display blinks and sound is not produced.	<ul style="list-style-type: none"> ● The speaker cords are short-circuited. 	<ul style="list-style-type: none"> ● Turn the power OFF, remove the short-circuit and turn the power ON again.
Sound is not produced from the left or right speakers.	<ul style="list-style-type: none"> ● The speaker cords are disconnected. 	<ul style="list-style-type: none"> ● Connect properly referring to "Connections".
The clock display blinks without changing the figures.	<ul style="list-style-type: none"> ● There was a power failure. ● The power cord was unplugged from the outlet. 	<ul style="list-style-type: none"> ● Adjust the present time again. ● Adjust the present time again. - [14]
Timer operation is not possible.	<ul style="list-style-type: none"> ● The present time has not been adjusted or there was a power failure. ● The timer ON time and OFF time have not been set. ● The timer execution was not set up. 	<ul style="list-style-type: none"> ● Adjust the present time referring to "Clock adjustment". ● Set the timer ON time and OFF time. ● Press the ►► key to set up the execution. - [16]
Radio stations cannot be received.	<ul style="list-style-type: none"> ● The antennas have not been connected. ● A proper broadcasting band has not been selected. ● The frequency of the station to be received is not tuned. 	<ul style="list-style-type: none"> ● Connect antennas. - [8] ● Select a band. - [36] ● Tune to the frequency of the desired station.
Noise interferes.	<ul style="list-style-type: none"> ● Car ignition noise. ● Influence of an electric appliance. ● A TV set is installed near the system. 	<ul style="list-style-type: none"> ● Install the outdoor antenna in an apart position from the road. ● Switch the suspected electric appliance OFF. ● Install the TV or the system at an increased distance between them.
A station has been preset but it cannot be received by pressing the P.CALL key.	<ul style="list-style-type: none"> ● The frequency of the preset station is not tunable. ● The preset memory has been cleared because the power cord has been unplugged for a long period. 	<ul style="list-style-type: none"> ● Preset stations with tunable frequencies. ● Preset stations again. - [36]
Demonstration starts suddenly.	<ul style="list-style-type: none"> ● The power plug was unplugged from the outlet while the power switch was ON, or there was a power failure. 	<ul style="list-style-type: none"> ● This is not malfunction. Press the DEMO key to cancel the demonstration. - [54]
Environmental sound cannot heard.	<ul style="list-style-type: none"> ● The DUAL SOUND MIXING knob is set to the fully counterclockwise position. 	<ul style="list-style-type: none"> ● Set the knob properly. - [38]

Cassette deck unit

Symptom	Cause	Remedy
Sound cannot be produced by pressing the play key or no operation occurs even when an operation key is pressed.	<ul style="list-style-type: none"> ● The head is dirty. ● The tape is wound too tight due to irregular winding. ● A nonrecorded tape is played. 	<ul style="list-style-type: none"> ● Clean the head referring to "Head maintenance". — [64] ● Try another tape. ● Play a recorded tape.
No operation occurs even when an operation key is pressed.	<ul style="list-style-type: none"> ● The cassette holder is not closed completely. ● The operation key is pressed immediately after closing the cassette holder. ● The operation key is pressed in less than 4 seconds after turning the power ON. ● A tape is not inserted in the unit. ● The tape is wound too tight due to irregular winding. ● The tape is fully wound to one of the reels. 	<ul style="list-style-type: none"> ● Close the holder completely. ● Press operations keys in more than a few seconds after closing the holder. ● Press operation keys after waiting for more than 4 seconds. ● Insert a tape. ● Try another tape. ● Change the tape transport direction or reverse the tape insertion orientation.
The DPSS malfunctions.	<ul style="list-style-type: none"> ● The tape used is not suitable for DPSS, for example the spaces between tunes may be too short. 	<ul style="list-style-type: none"> ● Refer to "Skip search". — [33]
In dubbing, the tape stops at different moments in decks A and B.	<ul style="list-style-type: none"> ● This is due to the difference in the tape length or characteristics of the mechanisms of two cassette decks. 	<ul style="list-style-type: none"> ● Small time difference does not mean a malfunction.
The cassette holder cannot be opened by pressing the eject key.	<ul style="list-style-type: none"> ● The key is pressed during recording or playback. ● The microcomputer is malfunctioning due to external noise. 	<ul style="list-style-type: none"> ● Press in stop mode. ● Unplug the power cord and plug it again.
Sound is harsh or high frequencies are not reproduced.	<ul style="list-style-type: none"> ● The head is dirty. ● The tape is stretched or shrunk. 	<ul style="list-style-type: none"> ● Clean the head referring to "Head maintenance". ● Try another tape.
Sound is distorted.	<ul style="list-style-type: none"> ● The tape being played was recorded with distorted sound. 	<ul style="list-style-type: none"> ● Try another tape.
Noise is noticeable.	<ul style="list-style-type: none"> ● The tape head is magnetized. ● External noise is induced. ● A tape recorded with Dolby NR ON is played with Dolby NR OFF. 	<ul style="list-style-type: none"> ● Demagnetize the head referring to "Head maintenance". ● Install the system at a distance from other electric appliances and TV. ● Set the Dolby NR to on.
Sound vibrates.	<ul style="list-style-type: none"> ● The capstans or pinch rollers are dirty. ● The tape is wound irregularly. 	<ul style="list-style-type: none"> ● Clean the head referring to "Head maintenance". — [64] ● Wind the tape again by fast forwarding, re-winding or playing from an end to the other.
Recording cannot be started by pressing the record key.	<ul style="list-style-type: none"> ● The recording protect tab of the cassette has been broken. ● The cassette holder is not closed completely. ● The TAPE input is selected. ● The tape is fully wound to one of the reels. 	<ul style="list-style-type: none"> ● Use a cassette with an unbroken recording protect tab or block the hole. ● Close the holder completely. ● Select the source to be recorded with the input selector key. ● Change the tape transport direction of deck B or reverse the tape insertion orientation.
Volume of the recorded track changed.	<ul style="list-style-type: none"> ● MIC MIXING control knob is moved during recording. 	<ul style="list-style-type: none"> ● Fully turn the MIC MIXING control knob to the left.

CD player unit

Symptom	Cause	Remedy
A CD is placed in the player but it cannot be played.	<ul style="list-style-type: none"> ● The disc is placed upside down. ● The disc position is displaced. ● The disc is extremely dirty. ● The disc is scratched. ● Dew is condensed on the optics lens. 	<ul style="list-style-type: none"> ● Place the disc properly, with the label side facing upward. ● Place the disc properly. ● Clean the disc referring to "Disc handling precautions". — [65] ● Try another disc. ● Refer to "Beware of condensation" and remove the condensation by evaporation. — [64]
Sound is not produced.	<ul style="list-style-type: none"> ● The disc has not been placed. ● The player is not put to the play mode. ● The disc is extremely dirty. ● The disc is scratched. 	<ul style="list-style-type: none"> ● Place a disc in the CD player. ● Press the CD (6) key. ● Clean the disc referring to "Disc handling precautions". — [65] ● Try another disc.
Sound skips.	<ul style="list-style-type: none"> ● The disc is dirty. ● The disc is scratched. ● The player is subject to vibration. 	<ul style="list-style-type: none"> ● Clean the disc referring to "Disc handling precautions". — [65] ● Try another disc. ● Install the unit in a place not subject to vibrations.

Note



1. With some tapes, a squeaky noise is produced when the tape is stopped automatically. This is due to the tape protection function, and not a malfunction.
2. Do not use 120-minute tapes, for the tape is too thin and gets easily tangled.
3. This system is microprocessor-controlled, so malfunction may occur due to external noise or interference noise. In such a case, unplug the power cord, plug it and turn power on again.
4. Do not use contact cleaners because it could cause a malfunction. Be specially careful not to use contact cleaners containing oil, for they may deform the plastic component.

For the U.S.A.

FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications, if it is not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

Specifications (For U.K. and Europe)

UD-502/552 (En)

Receiver / multi command unit (A-E5L)

FM Tuner section

Tuning frequency range	87.5 MHz ~ 108 MHz
Sensitivity (DIN at 75 Ω)	
MONO	1.0 μV / 11.2 dBf
Signal to noise ratio (DIN weighted at 1 kHz, 65.2 dBf input)	
MONO	65 dB
STEREO	62 dB
Selectivity (DIN ± 300 kHz)	64 dB
Stereo separation (DIN at 1 kHz)	40 dB
Frequency response	30 Hz ~ 15 kHz + 0.5 dB, - 3 dB

MW Tuner section

Tuning frequency range	531 kHz ~ 1,602 kHz
Usable sensitivity	12 μV / (500 μV / m)
Signal to noise ratio	48 dB

LW Tuner section

Tuning frequency range	153 kHz ~ 279 kHz
Usable sensitivity	22 μV
Signal to noise ratio	45 dB

Amplifier section

Rated power output	55 W + 55 W (DIN, 6 Ω)
Total harmonic distortion	0.09 % (1 kHz, 1 / 2 Rated power, 6 Ω)
Signal to noise ratio	81 dB (IHF'66)
Input sensitivity / Impedance	
AUX	200 mV / 47 kΩ
MIC	3.5 mV / 22 kΩ
Output level / Impedance	
SUPER WOOFER PRE OUT	2.0 V / 600 Ω
OMNI PRE OUT	1.0 V / 1 kΩ

[General]

Power consumption	150 W
Dimensions	W : 270 mm (10-5 / 8") H : 205 mm (8-1 / 16") D : 293 mm (11-9 / 16")
Weight (net)	5.8 kg (12.8 lb)

Note

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.



Strömbrytarens POWER beredskapsläge

Indikatorn STAND BY tänds efter nätkabelns anslutning till ett vägguttag, oavsett strömbrytarens POWER till/frånslag. Detta anger att en liten mängd ström leds till komponenten som stöd för minnesinnehållet. Detta läge kallas för beredskapsläget. Strömbrytaren på fjärrkontrollen kan användas för att slå på och av strömmen så länge indikatorn STAND BY lyser.

Virtanäppäimnen (POWER) valmiustila (STAND BY)

Kun laitteen verkkojohto on liitetty pistorasiaan, valmiustilan merkivalvo syytty riippumatta virtanäppäimnen (POWER) asennosta (ON / OFF). Merkivalvo osoittaa, että laitteessa on hieman virtaa muistin sisältöjen ylläpitöä varten. Tätä tilaa kutsutaan valmiustilaaksi. Kun valmiustilan merkivalvo (STAND BY) palaa, laitteen virta voidaan kytkeä ja katkaista kaukosäätimellä.

Afbrydertastens (POWER) STAND BY funktion

Når apparatets strømledning er tilsuttet en stikkontakt, lyser STAND BY indikatoren, uanset om der er tændt ved afbryderen på apparatet eller ej. Det angiver, at apparatet bliver forsynet med en ganske lille mængde strøm til øret-holdelse af hukommelsens indhold. Denne funktion kaldes STAND BY. Når STAND BY indikatoren er tændt, kan strømmen til apparatet slås til og fra med fjernsty-ringsenheden.

PÅ/AV-knappens Stand-by funksjon

Når strømledningen til dette anlegget er satt i en vekselstrømskontakt, vil STAND-BY indikatorlampen lyse enten PÅ/AV-knappen er på-eller avslått. Dette betyr at en viss mengde strøm tilføres anlegget slik at innholdet i minnet ikke går tapt. Denne funksjonen kalles Stand-by. Når indikatorlampen for STAND-BY er tent, kan strømmen slås PÅ / AV fra fjernkontrollen.

Specifications (for U.S.A. and Canada)

UD-502/552 (En)

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Receiver / multi command unit (A-E5)

FM Tuner section

Tuning frequency range	87.5 MHz ~ 108 MHz
Sensitivity (IHF)	13.2 dBf (1.2 μ V at 75 Ω)
Signal to noise ratio at 1 kHz	
MONO	75 dB (65 dBf input)
STEREO	68 dB (65 dBf input)
Selectivity (IHF \pm 400 kHz)	50 dB
Stereo separation (IHF at 1 kHz)	40 dB
Frequency response	30 Hz ~ 15 kHz + 0.5 dB, - 3 dB

AM Tuner section

Tuning frequency range	530 kHz ~ 1,700 kHz
Usable sensitivity	12 μ V / (500 μ V / m)
Signal to noise ratio	48 dB

Amplifier section

Rated power output

50 watts per channel minimum RMS, both channels driven, at 6 Ω from 40 Hz to 20 kHz with no more than 0.7 % total harmonic distortion.

Total harmonic distortion

..... 0.09 % (1 kHz, 1 / 2 Rated power, 6 Ω)

Signal to noise ratio

..... 81 dB (IHF'66)

Input sensitivity / Impedance

AUX

MIC

Output level / Impedance

SUPER WOOFER PRE OUT

OMNI PRE OUT

[General]

Power consumption

Dimensions

W : 270 mm (10-5 / 8")

H : 205 mm (8-1 / 16")

D : 293 mm (11-9 / 16")

Weight (net)

Note

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.



For the U.S.A.

FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications, if it is not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

Specifications (for other countries)

UD-502/552 (En)

Receiver / multi command unit (A-E5)

FM Tuner section

Tuning frequency range	87.5 MHz ~ 108 MHz
Sensitivity (IHF)	13.2 dBf (1.2 μ V at 75 Ω)
Signal to noise ratio at 1 kHz	
MONO	75 dB (65 dBf input)
STEREO	68 dB (65 dBf input)
Selectivity (IHF \pm 400 kHz)	50 dB
Stereo separation (IHF at 1 kHz)	40 dB
Frequency response	30 Hz ~ 15 kHz + 0.5 dB, - 3 dB

AM Tuner section

Tuning frequency range	
9 kHz step	531 kHz ~ 1,602 kHz
10 kHz step	530 kHz ~ 1,610 kHz
Usable sensitivity	12 μ V / (500 μ V / m)
Signal to noise ratio	48 dB

Amplifier section

Rated power output	60 W + 60 W (EIAJ, 6 Ω)
Total harmonic distortion	
.....	0.09 % (1 kHz, 1 / 2 Rated power, 6 Ω)
Signal to noise ratio	
.....	81 dB (IHF'66)
Input sensitivity / Impedance	
AUX	200 mV / 47 k Ω
MIC	3.5 mV / 22 k Ω
Output level / Impedance	
SUPER WOOFER PRE OUT	2.0 V / 600 Ω
OMNI PRE OUT	1.0 V / 1 k Ω

[General]

Power consumption	150 W
Dimensions	W : 270 mm (10-5 / 8")
	H : 205 mm (8-1 / 16")
	D : 293 mm (11-9 / 16")
Weight (net)	5.8 kg (12.8 lb)

Note

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For the U.S.A.

Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

For the U.S.A.

CAUTION:

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD CORPORATION
2967-3, ISHIKAWA-CHO,
HACHIOJI-SHI,
TOKYO, JAPAN

KENWOOD CORP. CERTIFIES THIS EQUIPMENT
CONFORMS TO DHHS REGULATIONS NO. 21 CFR
1040.10, CHAPTER I, SUBCHAPTER J.

Location: Back Panel

Specifications

UD-502/552 (En)

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Cassette deck / CD player unit (X-E5 / X-ME5)

Cassette deck section

Track 4-track, 2-channel stereo
Recording system AC bias system
(Frequency: 105 kHz)

Heads

A deck Playback head 1
B deck Playback / recording head 1
Erasing head 1

Motors

A deck 1
B deck 1

Fast winding time Approx. 110 seconds
(C-60 tape)

Frequency response

Normal tape 35 Hz to 17,000 Hz, ± 3 dB
CrO₂ tape 35 Hz to 18,000 Hz, ± 3 dB

Signal to noise ratio

Dolby B NR ON 63 dB (CrO₂ tape)
Dolby NR OFF 56 dB (CrO₂ tape)

Harmonic distortion Less than 3 %
(315 Hz, 3rd H.D., 250 nWb / m, CrO₂ tape)

Wow and flutter 0.1 % (W.R.M.S.)

CD player section

Laser Semiconductor laser

Playing rotation 200 rpm ~ 500 rpm (CLV)

Frequency response 8 Hz ~ 20 kHz, ± 1.0 dB

Signal to noise ratio More than 93 dB

Total harmonic distortion
..... Less than 0.01 % (at 1 kHz)

Channel separation More than 85 dB (at 1 kHz)

Wow & Flutter Unmeasurable Limit

[General]

Dimensions W: 270 mm (10-5 / 8")
H: 205 mm (8-1 / 16")
D: 280 mm (11")

Weight (net)

X-E5 3.8 kg (8.4 lb)
X-ME5 5.0 kg (11 lb)

Speakers (LS-E5)

Enclosure Bass-reflex type
Speaker configuration 3-Way system
Woofers 130 mm, cone type
Midrange 65 mm, cone type
Tweeter 25 mm, Piezo-Electric type
Impedance 6 Ω
Maximum input level 80 W
Frequency response 47 Hz ~ 20,000 Hz

[General]

Dimensions W: 200 mm (16-1 / 8")
H: 410 mm (7-7 / 8")
D: 255 mm (10-1 / 16")
Weight (net) 5.0 kg (11 lb) (1 piece)

Note

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