

UD COMPONENT SYSTEM/COMPACT HI-FI SYSTEM

INSTRUCTION MANUAL

KENWOOD CORPORATION

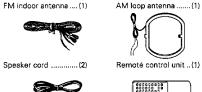
For your records

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_

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





AC plug adaptor.....(1) U.K. and Australia)

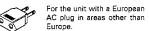


Loop antenna stand ..(1)

Batteries (R6/AA) (2)



(Except for the U.S.A., Canada, Mexico, Europe,







 $(75\Omega/300\Omega)$ (1)

(For U.K. and Europe)

B60-1543-30 (K, P, E, T, M, X, Y, B, I) (MC)

Before applying power

⚠ Caution : Read this page carefully to ensure safe operation

D-302

2

Before applying power

Units are designed for operation as follows.

U.S.A. Canada and Mexico	. 120 I	V onl	y
Australia	.240	V onl	y

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

For the United Kingdom

Factory fitted moulded mains plug

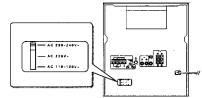
- The mains plug contains a fuse. For replacement, use only a 13-Amp ASTA-approved (BS1362) fuse.
- The fuse cover must be refitted when replacing the fuse in the moulded plug.
- 3. Do not cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home 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.

*AC voltage selection

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







CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVEIGOR BACK), NO USER-SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIEIS SERVICE PERSONNEL.



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 / RISK OF ELECTRIC SHOCK TO PERSONS.



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.

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

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.



3-Disc carousal CD player

The CD player is of the 3-disc carousel type which can accommodate up to 3 discs at a time. The disc can be replaced easily, even during playback of another disc. This feature is useful when playing various discs for long periods.



One-touch edit



→ P. 14

Only desired tracks from discs or an entire disc can be recorded on tape with a one-touch operation. This feature allows you to produce custom tapes.



Versatile tone and sound field adjustment

The tone can be selected according to the genre of the music

ARENA, JAZZ CLUB, STADIUM, HIT MASTER.

POPULAR, ROCK, JAZZ, CLASSIC. The sound field can also be selected as desired:



Convenient timer functions

→ P.38

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

When the power is turned ON by the timer, the

sound level increases gradually. Sleep timer: Useful when you want to go asleep while listen-

ing 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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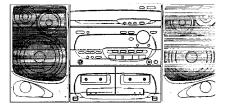
System connection

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

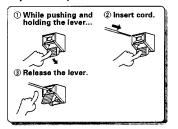
- In case an associated system component is connected, also read the instruction manual of the component.
- · Align the front panels of the unit flush.



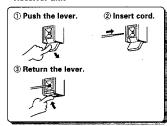
UD-30:

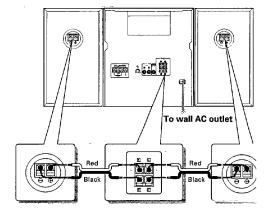
Connection of speakers

Speaker rear panels



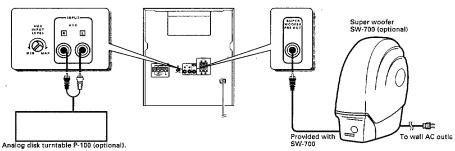
Receiver unit





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

Connection of other components

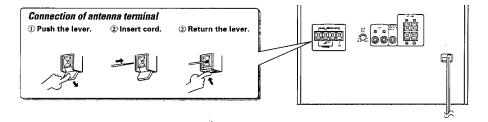


AUX INPUT LEVEL control

This control adjusts the input level from the component connected to the AUX INPUT jacks. Usually the AUX INPUT LEVEL should be set to MAX. Adjust the control when the input level is too high.

* This option may not be available in some area.





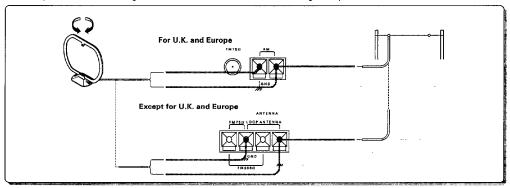
Connection of AM antenna

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.



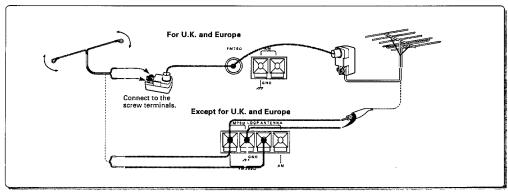
Connection of FM antenna

Connection of FM simplified antenna

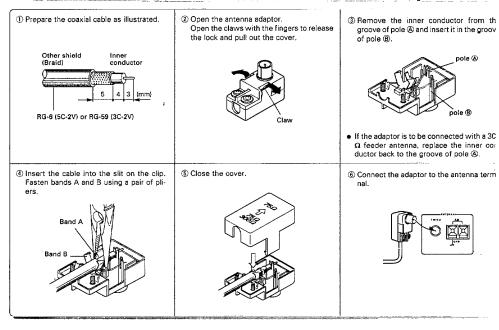
The antenna provided is designed for temporary indoor use. For stable reception, it is recommended to install an outdoor antenna as soon as possible. Once an outdoor antenna is connected, remove the indoor antenna.

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.



75 Ω coaxial cable connection (U.K. and Europe only)

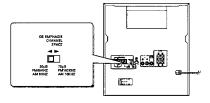


FM DE-EMPHASIS/CHANNEL SPACE switch (Except for the U.S.A., Canada, Mexico, Europe, U.K. and Australia)

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

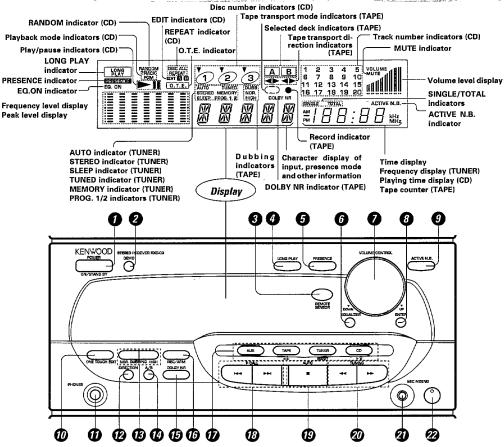


	Area	CHANNEL SPACE freq.	FM DE-EMPHASIS
1	U.S.A., Canada, and South Ameri- can countries	FM: 100kHz AM: 10kHz	75µs
2	Other countries	FM: 50kHz AM: 9kHz	50μs

Controls and indicators

UD-302 (En)

Receiver unit



O POWER key

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

②DEMO key → 🚉

Press to start demonstration.

@Remote control light sensor

②LONG PLAY mode key → €

Press to let the sound play for long hours.

OPRESENCE key → 237

Press for presence play.

⊙EQUALIZER key → ₱36

Press to select a graphic equalizer pat-

OVOLUME CONTROL knob

© ENTER key

OACTIVE N.B. key

OONE TOUCH EDIT key - [3]

Press for simplified CD recording.

OPHONES jack

Insert headphones into this jack.

@DIRECTION switch key

@DUBBING keys (HIGH, NOR.) - P.30

Press for tape dubbing.

@Deck switch keys (A/B)

Press to select the deck to be operated.

ODOLBY NR key

@REC/ARM kev

@Input selector keys

Functions as the play/pause

Functions as the play key.

Pressing during playback changes the tape transport direction.

TUNER: Functions as the BAND key. Press to play the AUX input

Skip (P.CALL) keys

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 @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.

@Fast winding (TUNING) keys

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

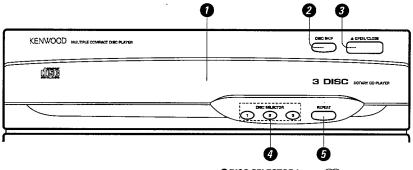
TUNER: Function as the TUNING keys. When power is OFF:

Used to set the timer.

MIC jack

MIC MIXING control knob

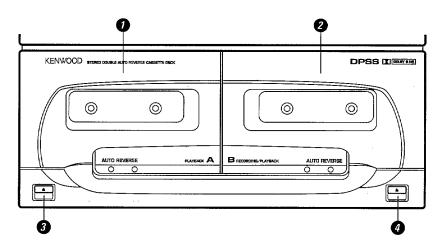




◆ Disc tray
 ◆ DISC SKIP key → €1
 Press to select another disc.
 ◆ OPEN/CLOSE key

- ODISC SELECTOR keys + [1]
 Press to select a disc by designating its number.
- GREPEAT key P. 18
 Press to play CD track(s) repeatedly.

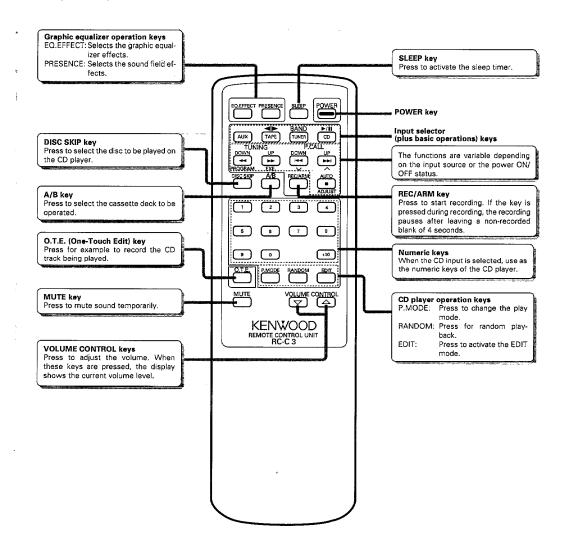
Cassette deck unit



O Deck A cassette holder O Deck B cassette holder **⊙** Deck A eject key **⊙** Deck B eject key

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.



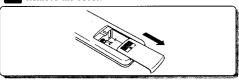
Model: RC-C3 Infrared ray system

Operation of remote control unit

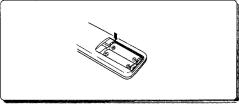
UD-302 ()

10 Loading batteries

Remove the cover.



2 Insert batteries.



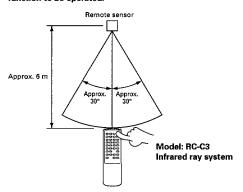
• Insert two R6 ("AA"-size) batteries following the polarity indication:

3 Close the cover.



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 mor between keys.



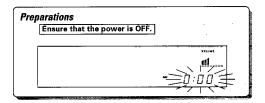
- 1. The provided batteries are intended for use in operation checking, and their service life may be short.
- 2. When the remote controllable distance becomes short, replace both of the batteries with new ones.
- 3. If direct sunlight or the light of a high-frequency fluorescent lamp (inverter type,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



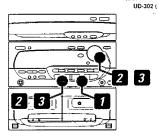
Clock adjustment



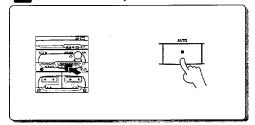
This unit incorporates a clock function. Be sure to adjust the correct time before using the timer function.



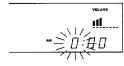




1 Activate the clock adjustment mode.

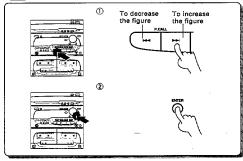


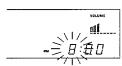
Example: Adjustment to 8:45PM (20:45)



• The time display starts to blink.

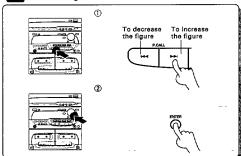
2 Enter the figure of hour.





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

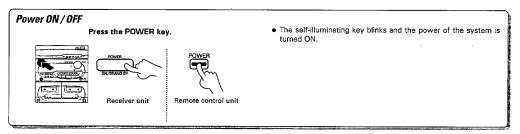
3 Enter the figure of minute.

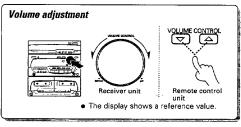


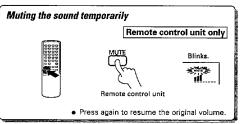


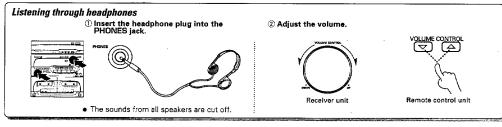
- If you make a mistake, restart from the beginning.
 To adjust correct time, press the ENTER key at the same mome as a time announcement.
- The time display blinks after a power failure or when the power co has been unplugged from the AC outlet and plugged again. In su a case, adjust the clock again.

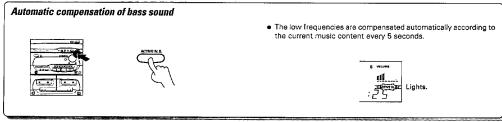
UD-302 (En)





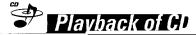






STAND BY mode of POWER switch

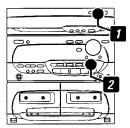
When the power cord is plugged into an AC outlet, the clock and volume display lights regardless of the power ON/OFF setting. This is because, even when the power is set to OFF, a small amount of power is supplied to the system to back up the memory. This status is called the standby mode of the system.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



OPERATION KEYS: GREEN



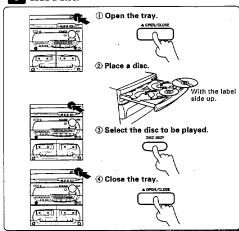




Playing tracks in order from track No. 1

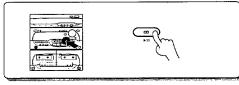
Use the following procedure to play a CD in the original order of tracks from track No. 1.

1 Load a disc.



- \bullet If more than one disc is to be loaded, press the **DISC SKIP** key rotate the tray. Up to 3 discs can be loaded at a time.
- . Do not touch the played side of disc.
- When 3 discs are not loaded in the disc tray, the same d is sometimes played back twice.
- The tray of the disc to be played should come to the left position when the unit is seen from the front.

2 Start playback.





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

To select another disc

Select the disc number to be played.

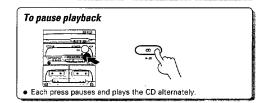




- The number indicated on each disc tray is the disc number.
- The disc can also be selected with the DISC SKIP key.
- The disc number being played lights.





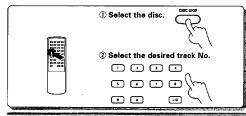


Playback from desired track

Preparation

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

Selection with numeric keys

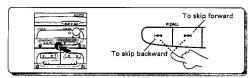


- The disc can also be selected with the DISC SELECTOR key.
- Press the numeric keys as shown below....

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 subse-
- Once the tray has been closed or playback has started, a track No. which does not exist on the disc cannot be selected.

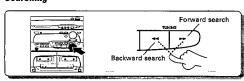
Skipping tracks



- The track in the direction of the 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

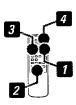


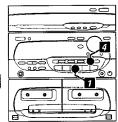
- Holding the key depressed increase the search speed.
- Playback starts from the position where the key is released.



Preparation

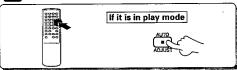
- Select the "CD" input.
- · Load discs in the CD player.

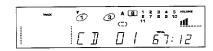




Programming tracks in desired order

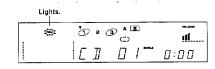
1 Check that the CD player is in the stop mode.



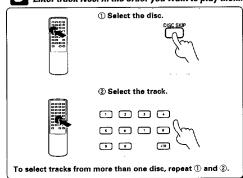


2 Activate the PGM mode.



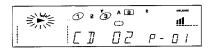


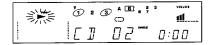
3 Enter track Nos. in the order you want to play them.



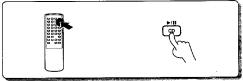
- The disc can also be selected with the DISC SELECTOR key.
- The tracks in the disc being selected are programmed.

 Up to 32 tracks can be programmed. "FULL" is displayed if yattempt to program a 33nd track.
- If you make a mistake, press the P.MODE key to quit the progre mode and restart from step 2.





4 Start playback.



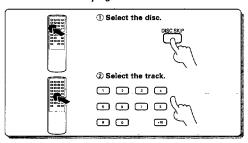
- Tracks will be played in the order they were programmed (in ord
- When the Idd or Idd key is pressed during playback, the track. be skipped in the direction of the button pressed.
- \bullet When the $\bowtie \blacktriangleleft$ key is pressed once during playback, the play pction returns to the beginning of the current track being played.



110-303

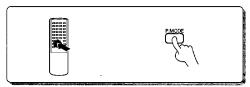


To add a track to the program



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

To quit the program mode



 If the key is pressed during playback, normal playback in order of tracks resumes from the current track.

13



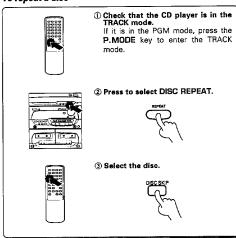


Preparation

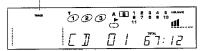
- Select the "CD" input.
- . Load discs in the CD player.

Repeated playback

To repeat a disc

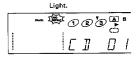


Check that the indicator is lit.



Each press switches the repeat mode.

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



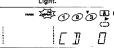
To stop repeated playback Press the REPEAT key twice.

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

To repeat all discs



- All tracks on all of the discs loaded on the disc tray will be pla repeatedly.
- Each press switches the repeat mode.
- REPEAT
 - ② DISC REPEAT
- **3 ALL REPEAT**
- Repeat OFF



To stop repeated playback Press the REPEAT key again.

• The "ALL" and "REPEAT" indicators go off and the playback lowing 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 disc.
- Select the track.

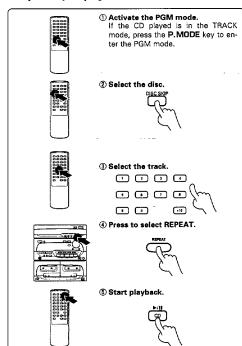
Each press switches the repeat mode.

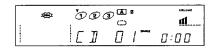
- → ① REPEAT
- ② DISC REPEAT
- **3 ALL REPEAT**
- Repeat OFF

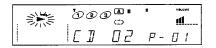
To stop repeated playback
Press the REPEAT key three times.

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

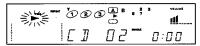
To repeat only the programmed tracks







- · 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.



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.

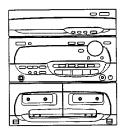




Preparation

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

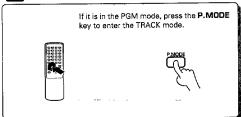




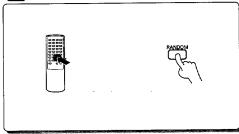
<u>Playback in a random order (Random playback)</u>

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





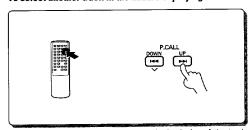




- Random playback occurs across all discs loaded on the disc tray
 The random playback can also be repeated by pressing the REPF
- Display in case track No. 4 of disc No. 2 is selected

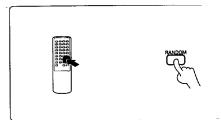


To select another track in the middle of playing one



 Pressing the I◄◄ key once returns to the beginning of the track being played.

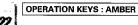
To cancel random playback

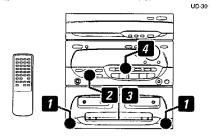


 The "RANDOM" indicator goes off and the playback in order of tracks starts from the track being played.

200

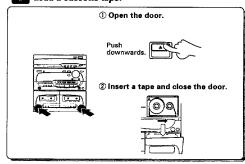
UD-302 (En)





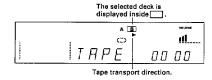
Tape playback

1 Load a cassette tape.



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

· Close the door securely.



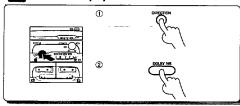
2 Select the deck to be used for playback.





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

3 Determine the playback modes.



Select the Dolby NR mode according to the recording condition

Each press switches the modes as follows.

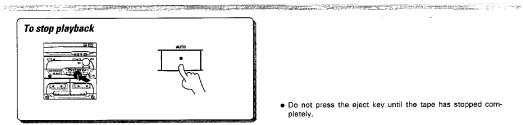
- "=" Playback stops after having played a side.
- DOLBY NR OFF DOLBY NR ON

4 Start playback.



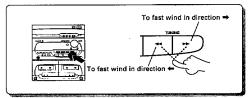
 If the tape transport direction is not the desired direction, press TAPE ◄► key again.





• Do not press the eject key until the tape has stopped com-

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 $\Box\Box\Box\Box\Box$ 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 \$\mathcal{D} then load it again.



Dolby Noise Reduction (NR)

The Dolby NR system minimizes the hiss noise heard when playing tape. When playing a tape prerecorded with Dolby NR ON, be sure to set the DOLBY NR ON for playback.

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 ■





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Searching for the desired music program (DPSS)

The DPSS (Direct Program Search System) is capable of detecting non-recorded spaces of more than 4 seconds as "blan' between programs" and, based on this information, can return to the beginning of the music program being played or tibeginning of a desired program by skipping up to 16 other programs.

To return to the beginning of the current music

During playback of side A (while ► is lit)





During playback of side B (while ◄ is lit)



To skip to the beginning of a desired music

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

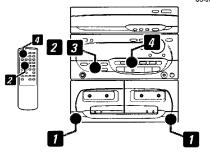


To return to the beginning of the current program : Press once.
To play the 4th program before the current program : Press 5 times.

Notes

- 1. The DPSS cannot be used on decks A and B simultaneously.
- 2. 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)

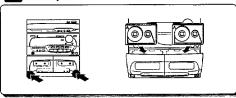




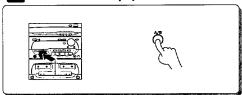
Relay playback

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

1 Load tapes.



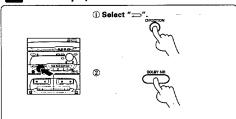
2 Select the deck to be played first.



• Playback will start on the deck selected with the A/B key.

• The tape sides indicated by the tape transport direction indicators

3 Select the playback modes.



Each press switches the modes as follows.

- """.......Both sides of tapes in both decks A and B will be played repeatedly.
 """.......Relay playback is not possible in this mode.
 """......Relay playback is not possible in this mode.
- DOLBY NR OFF

will be played.

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

4 Start playback.





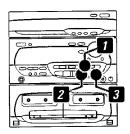




OPERATION KEYS: RED

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.

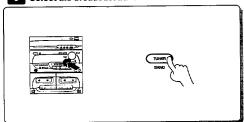




UD-302 ()

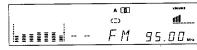
Receiving broadcast station

1 Select the broadcast band.

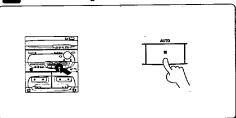


Each press alternates the band.

Except for U.K. and Eur∈ For U.K. and Europe

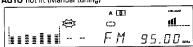


2 Select the tuning mode.



Each press alternates the mode.

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

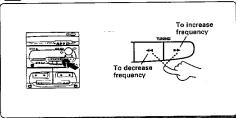


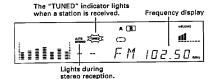
• Normally, use the AUTO (Auto tuning) mode.



Use the manual tuning mode when reception is noisy duc Wweak reception. (In the manual mode, stereo broadcasts received in monaural.)

3 Select a station.





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

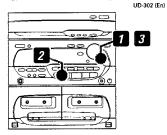


preparation.

→ P. 26

 Receive a station to be stored in preset memory.



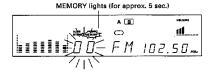


Storing radio stations in memory (Station preset)

1 Press the ENTER key during reception.





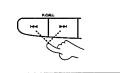


Go to step 2 within 5 sec.

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 Swithin 5 sec.

If more than 5 seconds have elapsed, restart the procedure from step **2** .

3 Press the ENTER key again.

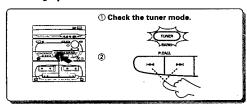




- Repeat steps 222 to preset other stations.
- If several stations are preset under the same number, the previous memory is replaced with the latest memory contents.



Receiving a preset station



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

Press \Longrightarrow for the order of $1\rightarrow2\rightarrow3$... $18\rightarrow19\rightarrow20\rightarrow1$... Press \bowtie for the order of $20\rightarrow19\rightarrow18$... $3\rightarrow2\rightarrow1\rightarrow20$...

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



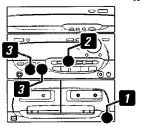
Recording (Deck B only

UD-302 (E

28

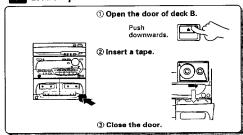
Note that this cassette deck cannot record onto Metal tapes.





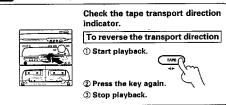
Preparation for recording

1 Load a tape in deck B.



- 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 contr fully counterclockwise to the minimum position.

2 Select the tape transport direction.

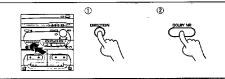


A B Transport

PE

- When recording is started, the tape is transported in the directic 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.

- "="Recording will end after having recorded on two side "Recording will end after having recorded on two side
- "=" Recording will end after having recorded on one sic
- DOLBY NR OFF
 DOLBY NR ON



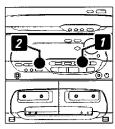
Preparation

- . Load a cassette tape in the deck.
- Select the tape transport direction (◄
- → P. 28
- Select "==" (two-side recording) or "==" (one- side recording).
- · Select the Dolby NR mode.
- (Insert a disc in the CD player.)



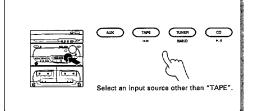
The presence ef with the music, The presence effects applied to music are recorded together

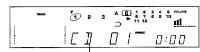




Recording (Deck B only)

1 Select the source to be recorded.





The source component to be

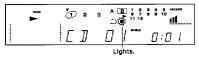
• When the CD input is selected and if a disc has been set in the CD player, its playback starts immediately.





① Play (or tune) the input to be recorded.





• Recording stops automatically when the tape side(s) to be recorded have been fully recorded.

To end recording





- When the key is pressed, recording stops after leaving a non-recorded blank of 4 seconds.
- If the key is pressed again in less than 4 seconds after it has been pressed, recording resumes from that instant,

Beat cancel function

There may be cases in which beat noise interferes with recording of AM (MW/LW) broadcasting.

In such a case, press the DEMO key during recording to reduce or suppress the beat noise. The DEMO key acts as the demonstration key except during tuner recording.



Display during recording

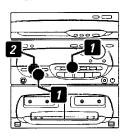
During recording, the time display on the display panel shows the remaining playing time of the track (or disc). The displayed contents vary depending on the play mode.

In TRACK mode ... Remaining time on the disc being recorded. In PGM mode Remaining time on the track being recorded.



Preparation • Select the "TAPE" input. . Load tapes in the decks. • Select "=" (double-side recording) or





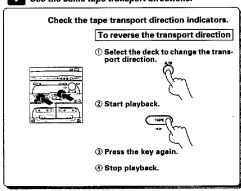
UD-302 (

Copying tape (Tape dubbing)

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

"==" (one-side recording)

1 Use the same tape transport directions.

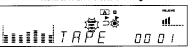


• When recording is started, the tape will be transported in the dire tion selected in this step.

2 Start dubbing.



NOR, or HIGH indicators will light.



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

To stop dubbing.



For normal-speed dubbing



- . Only deck B enters the stop mode after leaving a non-record space of approx. 4 seconds in case of normal-speed dubbing approx. 6 seconds in case of high-speed dubbing.
- The dubbing can also be stopped by pressing the STOP key. No recorded blank is not created in this case.



- 1. The DOLBY NR key is invalid in dubbing. 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

CD edit recording



The system is capable of three types of edit recording whitch may be selected as follows:

Select the type of edit recording

If you want to avoid any tune being interrupted at the end of tape

Timed edit recording • 🚉 Edit recording of CD is possible by the simple operation of entering the recording length of the tape.

If you want to select the tracks to be recorded while playing a CD

Recording desired tracks while playing a CD → Page Play a CD and, if a track you want to record starts, press the D.T.E. (One-Touch Edit) key. The track will be recorded from the begin-

If you want to record a CD in order of track numbers

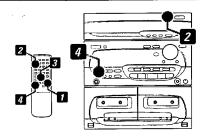
Recording an entire disc → 234
Press the O.T.E. (One-Touch Edit) key when in the stop mode. The disc will start to be recorded.

Preparation

- . Load a cassette tape in the deck B.
- Select the tape transport direction (◄
- 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.

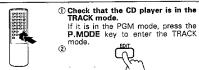


UD-302 (

Timed edit recording

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

Select the "EDIT" mode.





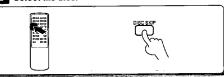
• To cancel the EDIT mode, press the P.MODE key of the remains control unit.



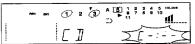
Go to step within 8 sec.

If more than 8 seconds have elapsed, select the mode again.



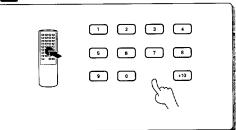


• Even if the disc has already been selected, select the disc again



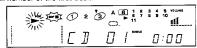
 Proceed to step @after confirming that the display has changed shown above.

3 Enter the recording length of the tape.



Press the numeric keys as shown below. 30-minute tape : +10, +10, +10, 0 46-minute tape : +10, +10, +10, +10, 6

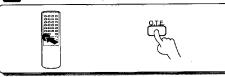
- . If you make a mistake in entering the recording time, check that PLAY indicator is blinking and restart from step 3.
- . Up to 32 tracks can be edited.
- The PLAY indicator blinks after completion of automatic editing
- Every time the ►► key is pressed, the edited track numbers will displayed in the changed order. Press the key to return to track number of the first track.





 The tape and CD stop automatically when recording has complete • The time display during recording is the remaining time on the rent side of tape.

4 Start edit recording.





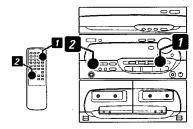
Preparation

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



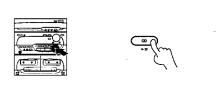
The presence effects applied to the music are recorded together with the music sound.



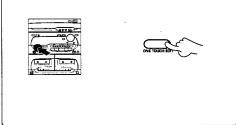
Recording desired tracks

The following procedure allows you to record CD tracks





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



To end recording in the middle





ctin	g them while playing a CD.
	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 continuer 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.
	Both the cassette deck and CD player stop.

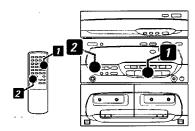


Preparation

- Load a cassette tape in the deck B.
- Select the tape transport direction (◄
- 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.

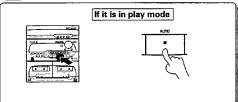


UD-302 (

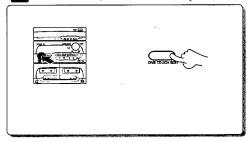
Recording an entire disc

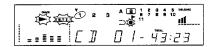
When the key is pressed while the CD player is in the stop mode, recording of a CD can be started at the same time as playba-

7 Check that the CD player is in stop mode.



2 Press the O.T.E. (ONE TOUCH EDIT) key.

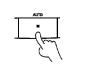




- Recording of CD starts at the same time as playback.
- At the end of tape, the music is not recorded on the leader ta portion. If you do not want any music to be interrupted in the midd refer to "Recording" and start recording of side B with the int rupted track.

To end recording in the middle





. Both the cassette deck and CD player stop.

one adjustment

EQUALIZER ,

UD-302 (En)

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

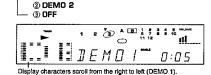
This feature applies various tone adjustment effects of the graphic equalizer and presence sound fields in sequence with the sound. The display also changes as the applied effects change. Check out the tone adjustment effects both visually and aurally.

DEMO 1

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

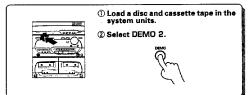


Each press of the key switches the demonstration modes as follows.



DEMO 2

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



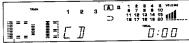
Each press of the key switches the demonstration modes as follows.

① JEMU / ② DEMO 2 — ③ OFF

→ ①]]EMO I

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





Display characters scroll from the right to left (DEMO 2).



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.









UD-302 (₺

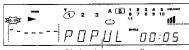
Playing music with the desired tone

The graphic equalizer patterns can be selected according to the genre of music played. The graphic equalizer effect applied to ti 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.

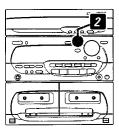
Each press of the key switches the patterns as follows.



(5) OFF (EQ.ON 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.

- - ② JRZZ CLUII
 Reproduction of a jazz live house where cymbals resound.
 - ③ 57月JILIM Reproduction of an open atmosphere with little reverberations which are usually reflected from the ceiling.
 - (4) HIT MRSTER (Vocal canceller) For use in karaoke singing.
- ⑤ OFF (PRESENCE and EQ.ON OFF)



Adjust the clock before setting the time



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.

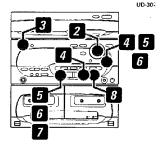
Al timer playback

When timer playback starts, the volume increases gradually. Sleep timer

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







Timer programming

Make preparations for the play (recording).

To listen to radio
 To listen to CD

The station should be preset prior to the above.

Insert a disc.

Insert a disc. (Program playback is not



Select the disc to be played (1, 2 or 3).

To listen to tape

Insert a tape.



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

 Playing the auxiliary input source

Make timer setting of the component connected to the AUX jacks.

For recording

Make prepartions for recording.

+ P.

2 Adjust the listening volume.





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

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





4 Select a program No.

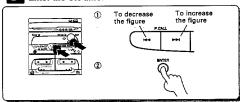


- The selected program No. lights.
- If a program No. under which a timer program has already be reserved, it is replaced by the new timer program.

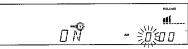
Each press of the key switches the program numbers as follows.

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



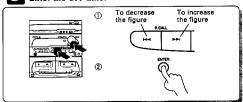


 After entering the figure of "hour" with the procedure in ① an ②, enter the figure of "minute" using the same procedure.



• If you commit a mistake, restart from step 2.

6 Enter the OFF time.

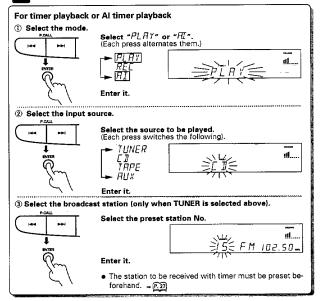


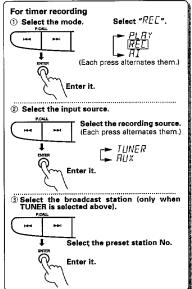
 After entering the figure of "hour" with the procedure in ① an ②, enter the figure of "minute" using the same procedure.



If you commit a mistake, restart from step

7 Make the desired reservation.





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.	
ı	PROG.2	Execution of program 2 only.	
	PROG.1 2	Execution of programs 1 and	2
\perp	Timer OFF		

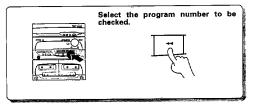
- The selected program No. lights.
- The timer will not function unless a program No. is selected.





Ensure that the power is OFF

Check the reservation content.



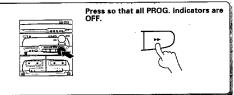
Each press of the key switches the program numbers as follows.

- PROG.1 (Program 1)
 PROG.2 (Program 2)
 Normal mode
- The reserved contents will be displayed for 3 seconds per itc.
 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

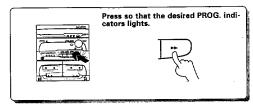


Each press of the key switches the program numbers as follows.

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



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.



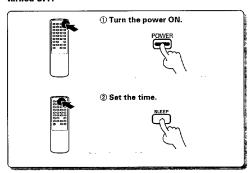
AND THE PERSON NAMED IN COLUMN

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...



To cancel

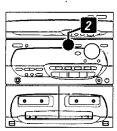
Turn the power OFF or press the **SLEEP** key until the sleep time is cancelled.

25

Convenient features







Long play mode

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

7 Play the desired music.

2 Press the LONG PLAY key.



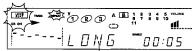


When the selected input is

CD: REPEAT mode will be selected.

TAPE: "=" is selected if tapes are present in both decks, a "c=" is selected in other case.

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



Display characters scroll from the right t the left.

To quit long-play mode

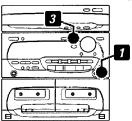




- The LONG PLAY display goes out.
- Normal play of the same source, CD or TAPE, continues.

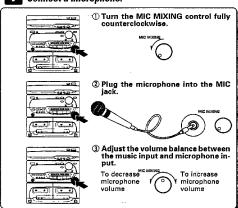
UD-30





Easy karaoke singing (HIT MASTER)





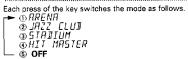
· Set the MIC MIXING control to the fully counterclockwise position when the microphone is not used.

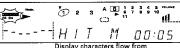
- 2 Play the music.
- 3 Select HIT MASTER.





4 Sing along with the accompaniment.





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.
- Adjust the overall volume with the VOLUME CONTROL knob.

To record karaoke singing



- ① Perform the procedure above until step 2.
- 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 counterclock-

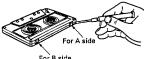
Maintenance

UD-302



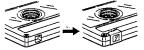
Notes on cassette tape

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 sun light, 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 rehub to remove the slack.





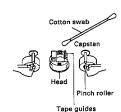
1. 120-minute cassette tape

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 mech: nism 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 magn: tized, the sound quality will deteriorate. In such case, demagnetize the head using a commercial available demagnetizer (head eraser).



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

Disc handling precautions

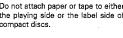


Handling

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.



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.



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.

Caution on disc used





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 manufactured under license form Dolby Laboratories Licensing Corporation.

"DOLBY" and the double-D symbol mare 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 PERMIS-SION OF THE COPYRIGHT OWNERS. ANYONE WISHING TO COPY COMMERCIALLY AVAILABLE TAPES OR DISC SHOULD CONTACT THE MECHANICAL COPYRIGHT PROTECTION SOCI-ETY LIMITED OR THE PERFORMING RIGHTS SOCIETY LIMITED.

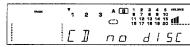
When your unit needs to be repaired, bring the entire set (Speakers excluded) to your dealer.

Memory backup function Stored contents whitch are Clock display cleared immediately when power plug is unplugged from power outlet Stored contents whitch are Receiver unit POWER status (ON or OFF) cleared in at least 3 days after power plug is unplugged Input selection from power outlet 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 (►/II) key to check that no disc is present on the
- 2. Wait a few seconds and verify that the display shown ap-



3. Turn the power OFF.

n case of difficulty

UD-302

Remote control unit

Symptom	Cause	Remedy
Remote control operation is not possible.	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.	Replace with new batteries. → ♠ ♠ Operate the unit inside the remote contro lable range. → ♠ ♠ ♠ Set a tape or CD in the component to be played.
	An attempt is made to play the cassette deck which is recording something.	Wait until the recording ends.

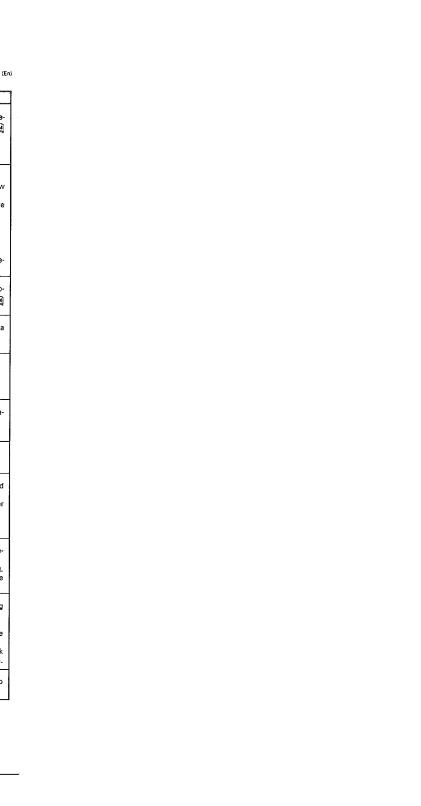
Reciver unit, speakers

Bymptom	Cause	Remedy
Sound is not produced.	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.	Connect properly referring to "Connections". Adjust to an required volume. → ♣️ৣ Switch MUTE OFF. Unplug the headphone plug.
The character display blinks and sound is not produced.	The speaker cords are short-circuited.	Turn the power OFF, remove the short-ci cuit and turn the power ON again.
Sound is not produced from the left or right speakers.	The speaker cords are disconnected.	Connect properly referring to "Connections".
The clock display blinks without changing the figures.	There was a power failure. The power cord was unplugged from the outlet.	Adjust the present time again. Adjust the present time again.
Timer operation is not possible.	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.	Adjust the present time referring to "Clocadjustment". Set the timer ON time and OFF time. Press the ▶▶ key to set up the execution.
Radio stations cannot be received.	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.	Connect antennas. → [2] Select a band. → [2] Tune to the frequency of the desired station.
Noise interferes.	 Car ignition noise. Influence of an electric appliance. A TV set is installed near the system. 	Install the outdoor antenna in an apart prosition from the road. Switch the suspected electric appliant OFF. Install the TV or the system at an increase distance between them.
A station has been preset but it cannot be received by pressing the P.CALL key.	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.	Preset stations with tunable frequencies Preset stations again. → ஹ
Demonstration starts suddenly.	The power plug was unplugged from the outlet while the power switch was ON, or there was a power failure.	This is not malfunction. Press the DEMO key to cancel the demosnstration.



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.	The head is dirty. The tape is wound too tight due to irregular winding. A nonrecorded tape is played.	Clean the head referring to "Head maintenance". Try another tape. Play a recorded tape.
No operation occurs even when an operation key is pressed.	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.	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.
	The tape is wound too tight due to irregular winding. The tape is fully wound to one of the reels.	Try another tape. Change the tape transport direction or reverse the tape insertion orientation.
The DPSS malfunctions.	The tape used is not suitable for DPSS, for example the spaces between tunes may be too short.	Refer to "Searching the desired music program (DPSS)". + P24
In dubbing, the tape stops at different moments in decks A and B.	This is due to the difference in the tape length or characteristics of the mechanisms of two cassette decks.	Small time difference does not mean a malfunction.
The cassette holder cannot be opened by pressing the eject key.	The key is pressed during recording or play-back. The microcomputer is malfunctioning due to external noise.	Press in stop mode. Unplug the power cord and plug it again.
Sound is harsh or high frequencies are not reproduced.	The head is dirty. The tape is stretched or shrunk.	Clean the head referring to "Head maintenance". Try another tape.
Sound is distorted.	The tape being played was recorded with distorted sound.	● Try another tape.
Noise is noticeable.	 The tape head is magnetized. External noise is induced. A tape recorded with Dolby NR ON is played with Dolby NR OFF. 	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.	The capstans or pinch rollers are dirty. The tape is wound irregularly.	Ocean the head referring to "Head maintenance" [2] Wind the tape again by fast forwarding, rewinding or playing from an end to the other.
Recording cannot be started by pressing the record key.	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 reeis.	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.	MIC MIXING control knob is moved during recording.	Fully turn the MIC MIXING control knob to the left.



UD-302 (



Symptom	Cause	Remedy
A CD is placed in the player but it cannot be played.	The disc is placed upside down.	 Place the disc properly, with the label side facing upward.
• •	The disc position is displaced.	 Place the disc properly.
	The disc is extremely dirty.	Clean the disc referring to "Disc handling precautions". P 45
	The disc is scratched.	Try another disc.
	Dew is condensed on the optics lens.	Refer to "Be careful of condensation" and remove the condensation by evaporation.
Sound is not produced.	The disc has not been placed.	Place a disc in the CD player.
	The player is not put to the play mode.	 Press the CD (►/II) key.
	The disc is extremely dirty.	Clean the disc referring to "Disc handling precautions". → P. 45 → P. 45
	The disc is scratched.	● Try another disc.
Sound skips.	The disc is dirty.	Clean the disc referring to "Disc handling precautions". Disc handling precautions".
	The disc is scratched.	Try another disc.
	The player is subject to vibration.	 Install the unit in a place not subject to vi-
	The player is subject to violation.	brations.



- 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:

- -- Regrient 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-302 (En)

Main unit (RXD-C3L)	
Amplifier section	CD player section
Rated power output	Laser Semiconductor laser
(IEC / NF) From 63 Hz to 12,500 Hz	Playing rotation
0.7 % T.H.D. at 6 Ω 30 W + 30 W	Wow & Flutter
(DIN) 1,000 Hz at 6 Ω	wow & Flutter Onmeasurable Limit
Input sensitivity / Impedance	General
AUX 260 mV / 47 kΩ	Power consumption 100 W
MIC 2.7 mV / 47 kΩ	Dimensions W : 270 mm
	H : 305 mm
Total harmonic distortion	D : 339 mm
0.2 % (1 kHz, 1/2 rated power, 6 Ω)	Weight (net) 7.6 kg
Signal to noise ratio	
AUX 80 dB (IHF'66)	
	Speakers (LS-C3)
FM Tuner section	Enclosure Bass-reflex type
Tuning frequency range 87.5 MHz ~ 108 MHz	Speaker configuration 3-Way system
Sensitivity (DIN at 75 Ω)	MAIN
MONO 1.0μV / 11.2 dBf	Woofer 130 mm, cone type
	Tweeter 65 mm, cone type
MW Tuner section	Super tweeter 20 mm, Piezo-Electric type
Tuning frequency range 531 kHz ~ 1,602 kHz	Impedance 6 Ω
Usable sensitivity 12 μV / (500 μV / m)	Maximum input level 50 W
LW Tuner section	General
Tuning frequency range 153 kHz ~ 279 kHz	
Usable sensitivity22 μV	DimensionsW : 180 mm
	H : 305 mm
Consette deals acation	D : 215 mm
Cassette deck section	Weight (net) 2.9 kg (1 piece)
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. 120 seconds (C-60 tape)	
Wow and flutter 0.15 % (W.R.M.S.)	



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 as länge indikatorn STAND BY

Virtanäppäimen (POWER) valmiustila (STAND BY)

Kun laitteen verkkojohto on liitetty pistorasiaan, valmiustilan merkkivalo syttyy riippumatta virtanäppäimen (POWER) asennosta (ON / OFF). Merkkivalo osoittaa, että laitteessa on hieman virtaa muistin sisälitöjen ylläpitoa varten. Tätä tilaa kutsutaan valmiustilaksi. Kun valmiustilan merkkivalo (STAND BY) palaa, laitteen virta voidaan kytkeä ja katkaista kaukosäätimellä.

Afbrydertastens (POWER) STAND BY funktion

Når apparatets strømledning er tilsluttet 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 opret-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

Denne funksjonen kalles Stand-by. Når indikatorlampen for STAND-BY er tent, kan strømmen slås PÅ / AV fra fjernkontrollen.



Specifications (For U.S.A., Canada and Mexico

Main unit (RXD-C3)

Amplifier section

Rated power output

32 watts per channel minimum RMS, both channels driven, at 6 Ω from 60 Hz to 20,000 Hz with no more than 0.7 % total harmonic distortion. (FTC)

Input sensitivity / Impedance

AUX	200	mV/	47	kΩ
MIC	2.7	mV /	47	kΩ

Total harmonic distortion

...... 0.2 % (1 kHz, 1/2 rated power, 6 Ω) Signal to noise ratio AUX 80 dB (IHF'66)

FM Tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz Sensitivity (IHF) 13.2 dBf (1.2 μV at 75 Ω)

AM Tuner section

Tuning frequency range 530 kHz ~ 1,700 kHz Usable sensitivity ... ------ 12 μV / (500 μV / m)

Cassette deck section

TrackRecording system	4-track, 2-channel stereo
necolding system	
Haade	(Frequency: 105 kHz)

Playback head ... Playback / recording head Erasing head

Motors A deck

B deck ... Fast winding time Approx. 120 seconds

(C-60 tape) Wow and flutter 0.15 % (W.R.M.S.)

CD player section

Wow & Flutter	200 rpm ~ 500 rpm (Ci Unmeasurable Lii
General	
Power consumption	100
Dimensions	W: 270 mm (10-5 / :
	H: 305 mm (12")
	D: 339 mm (13-3 / :
Weight (net)	7.6 kg (16.8

UD-302

Speakers (LS-C3)

Enclosure	Bass-reflex ty
Speaker configuration	3-Way syst
MAIN	
Woofer	130 mm, cone ty
Tweeter	65 mm, cone ty
Super tweeter	20 mm, Piezo-Electric iv
Impedance	
Maximum input level	50

General

Dimensions	W: 180 mm (7-1 / 1;
	H: 305 mm (12")
	D : 215 mm (8-7 / 1a

Weight (net) 2.9 kg (6.4 lb) (1 pie-



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

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 lables on, or inside the product relating to laser product safety.

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KENWOOD CORP. CERTIFIES THIS EQUIPMENT CONFORMS TO DHHS REGULATIONS NO. 21 CFR 1040. 10, CHAPTER I, SUBCHAPTER J.

Location: Back Panel

Specifications (For other cou

Main unit (R.	XD-C3)	Speakers (LS-C3)
Amplifier se	ction	Enclosure
Rated power	output	Speaker configuration
(EIAJ)	37 W + 37 W (1 kHz, 6 Ω)	MAIN
(IHF'66)	From 60 Hz to 20 kHz, 0.7 % T.H.D.	Woofer 130
	at 6 Ω 30 W + 30 W	Tweeter 65
		Super tweeter 20 mm, Pie
Input sensitiv	vity / Impedance	Impedance
	200 mV / 47 kΩ	Maximum input level
		General
Total harmor	nic distortion	Dimensions
-	0.2 % (1 kHz, 1/2 rated power, 6 Ω)	Dimensions
Signal to noi		
AHX	80 dB (IHF'66)	Weight (net)
A0X		Troight (Het)
FM Tuner sea	ction	
	ency range 87.5 MHz ~ 108 MHz	
	HF) 13.2 dBf (1.2 μV at 75 Ω)	
	, 10.2 μυ αι /3 λ/	
AM Tuner se	ction	
Tuning frequ		
	p 531 kHz ~ 1,602 kHz	
	ep 530 kHz ~ 1,610 kHz	
	tivity 12 µV / (500 µV / m)	
Cassette dec	k section	
Track	4-track, 2-channel stereo	
	stem AC bias system	
	(Frequency: 105 kHz)	
Heads		
A deck	Playback head1	
B deck	Playback / recording head 1	
	Erasing head 1	
Motors	•	
A deck	1	
Fast winding	time Approx. 120 seconds	
Fast winding	time Approx. 120 seconds	
	time	
Wow and flut	time	
Wow and flut	time	
Wow and flut CD player see Laser	time	
Wow and flut CD player see Laser Playing rotati	time	
Wow and flut CD player see Laser Playing rotati	time	
Wow and flut CD player sec Laser Playing rotati Wow & Flutte General	time	
Wow and flut CD player sec Laser Playing rotati Wow & Flutte	time	
Wow and flut CD player see Laser Playing rotati Wow & Flutte General Power consur	time	
Wow and flut CD player see Laser Playing rotati Wow & Flutte General Power consur	time	
Wow and flut CD player see Laser Playing rotati Wow & Flutte General Power consur	time	
Wow and flut CD player set Laser Playing rotati Wow & Flutte General Power consur Dimensions	time	



Note

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Speakers (LS-C3)	UD-302 (En)
Enclosure Speaker configuration	Bass-reflex type
MAIN	
Woofer	130 mm, cone type
Super tweeter	20 mm, Piezo-Electric type
Impedance Maximum input level	6 O
	30 VV
General	
Dimensions	
	H : 305 mm
Weight (net)	D : 215 mm (2.9 kg (1 piece
<u> </u>	
nent. For this reason specifications ma	y be changed without notice.
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