KENWOOD

HM-331

INSTRUCTION MANUAL

KENWOOD CORPORATION



B60-4228-00 00 CH (M,T) OC 9809

Units are designed for operation as follows.

Europe and U.K. AC 230V only *Other countries...... AC 110-120 / 220-240 V switchable

For the United Kingdom

Factory fitted moulded mains plug

- 1. The mains plug contains a fuse. For replacement, use only a 3-Amp ASTA-approved (BS 1362) fuse.
- 2. The fuse cover must be refitted when replacing the fuse in the moulded plug.
- 3.Do not cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach.

A power point, then obtain an appropriate safety approved extension lead or adapter, or consult your dealer. If nonetheless the mains plug is cut off, remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent. Connection to the mains supply.

IMPORTANT

Preparation section

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

Brown : Live

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

Safety precautions

*For other countries

AC voltage selection

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

AC voltage selector switch



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

Note:

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

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

CAUTION RISK OF ELECTRIC SHOU DO NOT OPEN		CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE, REFER SER- VICING TO QUALIFIED SERVICE PERSONNEL.
Â	ANGLE, IS INTE GEROUS VOLTA	G FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRI- ENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DAN- AGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT O CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.
	THE USER TO T	TION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SER- UCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

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



The marking is located on 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.

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Special features

CD player and auto-reverse cassette deck as standard equipment

A CD player and auto-reverse cassette deck are provided, making the unit an integrated micro stereo system for enjoyment of multiple music sources.

Convenient Recording Methods

Various versatile recording functions are provided according to the use purposes.

- •One-touch recording : Recording of one CD or one track by pressing a single key
- •Program recording : Any desired tracks can be recorded in the desired sequence

Convenient timer functions

Two-program time	r : Timer playback, timer recording and AI timer playback can be programmed.		
Al timer	Al timer : When the unit is turned ON by the timer, the sound level increases gradually.		
0.T.T.	O.T.T. : Timer with easy setting, which operates only once.		
Sleep timer	: Useful when you want to go asleep while listening to music.		

In regard to demonstration

This unit is equipped with a demonstration function (only display). The demonstration consists of sequential change of display and indicators showing the operations, but the audio itself does not change. The demonstration function can be cancelled as follows.



DEMO OFF (To cancel demonstration): Press the "set/demo" key when DEMO is ON.
DEMO ON (To execute demonstration): After turning power ON, press and hold the "set/demo" key (for more than 2 seconds).

- Even when DEMO is ON, stations with weak radio waves are muted and their sound cannot be heard.
- This operates automatically when a power failure has occurred or the plug of the power cable has been pulled while the power was ON. Cancellation is possible by pressing the key during the demonstration.

Unpacking

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

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

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



Leparation section AI time O.T.T. Sleep

Handling of discs



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



To store cassette tapes

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



When there is slack in the tape

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



Since longer tape than 110 minutes cassette tape is very thin, the tape could adhere to the pinch roller or be easily broken. It is recommended that these tapes not be used with this unit to prevent possible damage.

2. Endless tapes

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

AM loop antenna

reception.

interfere.

or damage may result.

Connection of the System Accessories

This figure shows the method of connection between the main unit and provided accessories.

The supplied antenna is for indoor use. Place it as far as

possible from the main system, TV set, speaker cords and

power cord, and set it to a direction which provides the best

1.Never short-circuit the "+" and "-" speaker cords.

2.If the left and right speaker connections or the "+" and "-" polarity are inverted, the sound will be unnatural with unclear positioning of musical instruments, etc. Be sure to connect them without mistake.
3.Be sure to insert all connection cords securely. If their connections are imperfect, the sound may not be produced or noise may

4.Before plugging or unplugging a connection cord, be sure to unplug the power cord from the wall AC outlet. If connection cords are plugged or unplugged with the power cord left plugged in, malfunction HM-331 (En/T)

CAUTION Note on Connection

Connect the components as shown in the diagram.

Only plug the power cord into a power outlet once connections are completed.

Malfunction of microcomputer

If operation is not possible or erroneous display appears even though all connections have been made properly, reset the microcomputer referring to "In case of difficulty". $\rightarrow \boxed{44}$







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FM indoor antenna

The accessory antenna is for temporary indoor use only. For stable signal reception we recommend using an outdoor antenna. Remove the indoor antenna if you connect one outdoors.



Connection of Other Accessories (Commercially Available Parts)

FM outdoor antenna



Connect the components as shown in the diagram. Only plug the power cord into a power outlet once connections are completed.



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(The displays given in this manual are approximations only. They may differ from what actually appears on the display.)



- **O** Tuner-related indicators
- Character information display section (dot display) Shows character information including the input selection, volume level and disc/track title.
- Character information display section
 Frequency indication, time indication, track No., program No., etc.
- **O.T.E. (ONE TOUCH EDIT) indication** Appears during one-touch recording.
- **G** LOUD (Loudness) indication
- **G** TAPE REC indicators
- EX.BASS (extra bass) indication

- Indication related to CD
- Auto Power Save indicator
- **Ø** Timer-related indicators
- **O** RDS-related indication (expect for some areas)
- Cassette deck, reverse mode and TAPE equalizer (T.E.) indicators
- CD play/pause indicators Indicates the play and pause modes of CD.

Preparation section



About the one-touch operation function

This unit incorporates the one-touch operation function for the user's convenience. With this function, pressing any key enclosed in \square while the unit is in standby mode immediately start playback (or reception).

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Controls and indicators

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Preparation section

 O CD cover open key (▲) Press to open the CD player cover. Oisplay Tape record key (TAPE rec) → 23 Press to start recording. Pressing the key during recording stops it after leaving a non-recorded space (blank) of about 4 seconds. "set/demo" key Press to set or enter an item selected with the "VOLUME/ multi control". 	 CD Skip (I◄◄, ►►I)/TAPE (◄◄, ►►) keys → 17 → 20 During CD operation : Press to skip tracks in the forward or backward direction. During TUNER operation : Press to receive a preset station. During TAPE operation : Press to search in the forward or backward direction. "repeat" key → 25 Used for repeated playback of CD. O.T.E. key
 Used for demonstration ON/OFF. 9 "menu" key Press to switch the function of the "VOLUME/multi control (up/down)" knob. This key is also used when setting the time of the day. 9 "panel open / close" key 9 "tape EQ" key 9 CD play/pause key (CD ►/II)/indicator - 16 Press to select the CD input and start CD playback. 	 ✓ "sound" key → 15 Used for switching the EX.BASS play and LOUDNESS play. ✓ "TUNER/band" key → 20 The received broadcasting band is switched. Press to select the TUNER input. AUX input key Press to listen to the input source connected to AUX (analog external).
 Press to select the CD input and start CD playback. Press during CD playback to let it pause temporarily. ⑦ Tape play key (TAPE)/ TAPE direction indicator ⑦ Stop key (■) ⑦ Cassette holder Press the area marked "▲ push OPEN" to load or eject a tape. 	 ✓ Standby / timer indicator Light in standby mode of power. Red :Normal standby mode Orange :O.T.T. standby :Program timer standby Green :Power ON mode ★ ✓ */VOLUME/multi control (up/down)" knob
"phones" jack Headphones with a stereo mini plug (optional) can be connected.	 Normally this is used for volume adjustment. Remote sensor "on/standby" key The system is switched ON and STANDBY.

* About the VOLUME/multi control (up/down) knob

After selecting the function of this knob with the "menu" key, select the desired control item by turning the "VOLUME/multi control (up/down)" knob. To set or enter the setting of the selected item, press the "set/demo" key.



About the REVOLVING CONTROL PANEL AUTO

- The REVOLVING CONTROL PANEL is closed when the power supply is in STANDBY mode.
- When the power is switched ON, the REVOLVING CONTROL PANEL opens.
- When the power is ON, the panel opens and closes alternately each time the "panel open / close" key is pressed.

Turning the knob switches the function as shown in the character information display.

► TAPE RVS.	?	→ 19
O.T.E.	?	→ 34
A. MEMORY (or	r A. PRESET) ?	→ 21
(Only when the	TUNER input is selected	ed)
AUX LEVEL	?	→ 37
(Only when the A	AUX input is selected)	
BALANCE	?	→ 36
TIMER SET	?	→ 39
A.P.S. SET	?	→ 15

• The function of the control knob returns to the normal mode when it has not been operated for 5 seconds.

MANUAL

• When the power is ON, the panel opens and closes alternately each time the "panel open / close" key is pressed.



Remote control unit



Europe, and U.K. RC-F0503E (Infrared ray system) Other countries RC-F0503 (Infrared ray system)

0	TONE key	→ 36
	This is used to adjust the tone.	
	SOUND key	→ 15
	Used for switching the EX.BASS play and LOUDNESS	S play.
0	SLEEP key	→ 42
	This is used to set the sleep timer.	
0	Numeric keys	
	These are used to select CD tracks and as preset call k	eys for
_	the tuner.	~~~
0	TAPE O.T.E. key	→ [<u>34</u>]
	These keys are used for recording of a CD onto tape one-touch operation.	with a
	Press either key during CD playback to record the cu played track onto tape. Press in stop mode to record the CD onto tape.	,

G Basic operation keys	
Fast forward, fast reverse keys (◄◄, ►►)	
	/_→19_
Press to search in the forward or backward direct	
During TUNER operation:	→ 20
Press to select a radio station.	
P.CALL/skip keys (I◄◄, ►►I)	
During CD operation :	→ [17]
Press to skip tracks in the forward or backward d	irection.
During TUNER operation:	→ 20
Press to select a radio station.	\sim
TAPE ৰ 🕨 key	
TUNER BAND key	
CD ►/II key	
Stop key (∎)	
AUX key	
BDS-related keys (For Europe and U.K.)	
TA/NEWS key	→ 31
Used at the time of EON reservation.	
PTY key	→ 29
Used at the time of program type detection.	
SET key	
Press to set or enter an item selected with the "VC	DLUME/
multi control".	→ 21
ENTER key	
It is used to enter the preset station memory in the	\sim
③ MUTE key	→ 15
This is used to suppress the sound temporarily. ④ POWER (/ ()) key →	42
••••••	
The system is switched ON and STANDBY. This key is also used to activate or cancel the timer	nrogram
execution.	program
[©] TIMER key	→ 42
Used to select the timer.	
Weys related to CD	
REPEAT key	→ 25
This is used for repeated playback.	
RANDOM key	→ 26
Playback of the CD tracks in random order.	
CLEAR key	→ 24
The programmed track sequence is cleared.	
PGM key	→ 24
This is used to program the track sequence.	
During TUNER operation:	→ 21
Used to switch the tuning mode between "AUT	
tuning, stereo reception) and Manual (manual	tuning,
monaural reception). 13 TIME DISP. key	
Press to switch the time information displayed du	iring CD
playback.	
DOT DISP. key	→ [27]
Used for scroll display of the text infomations of (D-TÊXT
compatible disc.	
∕❸ VOLUME (△,▽) keys	

The keys on the remote control unit with the same names as on the main unit have the same function as the keys on the main unit.

Preparation section

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After plugging the power cord of this unit, press the POWER (I/\bigcirc) key of the remote control unit to turn the system ON. When the system is turned ON, press the key of the function to be operated.



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



The provided batteries are intended for use in operation checking, and their service life may be short.
 When the remote controllable distance becomes short, replace both of the batteries with new ones.
 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.

Channel space switching (Except for the United Kingdom and Australia)

The space between radio channels has been set to the one that prevails in the area to which the system is shipped. However, if the current channel space setting does not match the setting in the area where the system is to be used, for instance when you move from area 1 or area 2 shown in the following table or vice versa, proper reception of AM/FM broadcasts cannot be expected. In this case, change the channel space setting in accordance with your area by referring to the following table.

Area		CHANNEL Space Frequency	
1	USA, Canada and South American countries	FM: 100 kHz AM: 10 kHz	
2	Other countries	FM: 50 kHz AM: 9 kHz	

O Turn power on.

② Press the TUNER/band key

O Select the mode by using the "repeat" key.



Establish the selection by pressing the "set/ demo" key. Preparation section

Basic use method

Basic section



Listening through headphones

Insert the headphone plug into the "phones" jack.



- Headphones with a stereo mini plug can be connected.
- The sounds from all speakers are cut off.

Muting the sound temporarily (Remote control unit only)



- Press again to resume the original volume.
- This is also cancelled when the volume is changed.

Standby mode

When the standby/timer indicator on the main unit lights in red or orange, a minute current flows for memory protection. This condition is called standby mode.



Volume display

Bass and treble compensation



- Each press switches the modes as follows.
 - ▶ 1) "EX.BASS" (Extra Bass) lights.
 - The lowest and highest frequencies are enhanced regardless of the current volume level.
 - "LOUD" (Loudness) lights. The lowest and highest frequencies are enhanced according to the current volume level. (Effective during low-volume listening.)
 - Both indicators off. Sound enhancement mode is disengaged.
- Adjusting the tone while the "LOUD" or "EX.BASS" indicator is lit turns it off and cancels the sound enhancement mode.

AUTO POWER SAVE function

When the unit is ON and the unit is left for 30 minutes with CD and TAPE not operating, the unit is switched off automatically by this function. This is convenient when you forgot to switch off the unit. This function can be activated or deactivated by the following operation.



- (Press the "set/demo" key while the "?" mark is blinking.)
- Ø Select.

MUTE is on.





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Let's put out some sound

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Skipping tracks

To skip backward

To skip forward



- The track in the direction of the key pressed is skipped, and the selected track will be played from the beginning.
- When the I < key is pressed once during playback, the track being played will be played from the beginning.
- Operation also is possible with the keys I ◄ and ► I of the remote control unit.

To fast forward and backward

(Remote control only)



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

Playback from desired track

Select the desired track No.



Press the numeric keys as shown below....

- To select track No. 23 : +10 +10 3
- To select track No. 40 : +10 +10 +10 0

To pause playback



• Each press pauses and plays the CD alternately.

To stop playback



In regard to CD-TEXT

When discs conforming to CD-TEXT are played with this unit, the text information recorded on the CD (disc name or titles) is displayed automatically.

Time display on CD player

(Remote control unit only)

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

- ► ① [: P = (Elapsed time of track being played)
- (Remaining time of track being played)

(Elapsed time of entire disc)

- (4) = 35 + 15 (Remaining time on entire disc)

• Only time information ① and ② can be displayed during single-track repeated playback or random playback.

- Do not touch the played side of disc.
- Be sure to place a disc horizontally. Placing it with an inclination will result in malfunction.



- Titles are displayed for discs conforming to CD-TEXT.
- After a few seconds, play starts from track No.1.

Playback of tape



If you load a tape in the cassette deck in advance while the power is off. pressing the TAPE key turns power on automatically and starts the tape playback.



Let's put out some sound

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To wind tape at high speed (remote control only)



● Press the ■ key to stop fast winding.

Selection of TAPE equalizer (tape EQ.)

(Main unit only)

When playing a tape prerecorded with Noise Reduction system (such as the DOLBY NR) ON, be sure to set the "tape EQ." ON for playback.



• Select the "tape EQ." ON mode according to the recording condition of the tape.

		Lights
	0000	
TAPE	STOP	

- Normal (TYPE I), high (TYPE II), or metal (TYPE IV) tape selection is set automatically.
- Remove tape slack before loading.
- Close the door securely.



Reverse mode indication

To stop playback



• Do not take out the cassette tape until the tape transport has stopped completely.

Selection of reverse mode (Main unit only)





(Press the "set/demo" key while the "?" mark is blinking.)

Initial setup

VOLUME / multi control

Select.

"_⊥)" : (REVERSE)

Both sides are played back (recorded), and then the tape stops.

"=": (ONE-WAY) Only one side is played back (recorded), and then the tape stops.

"(□)":
(ENDLESS)
Both sides are
played back
endlessly.
(The tape stops
after recording
onto both sides.)

Set it.



Tape counter display (Remote control unit only)

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

1	🗍 🗍 🗍 🗍 (Tape count)	
_ 2 _{AM}	음:닉 乌 (Time display)	

A tip for use of the tape counter

The tape counter is set to "0000" when a cassette tape is loaded.

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

To set the tape counter to "0000", open the cassette holder once. Then the counter will be reset.

cator is lit). nter cas-ILba TAPE STOP

Receiving broadcast station

It is also possible to receive them by one-touch operations by storing up to 40 stations in the preset memory.



When the "TUNER/band" key is pressed, the unit will automatically be switched on and reception status will be reached.



1. Select the broadcast band.

Each press changes the band.



TUNER / ban

2. Select a station.

When no stations have been memorized

Auto tuning : The next broadcasting station will be received automatically each time this key is pressed. Manual tuning : Press the key repeatedly or hold it depressed until

a station is received.

When stations have been memorized (preset call)

Every time the key ($| \blacktriangleleft \triangleleft \circ r \rightarrow \rightarrow |$) is pressed, the preset stations are switched over as follows.

Press \blacktriangleright for the order of $1 \rightarrow 2 \rightarrow 3 \dots 38 \rightarrow 39 \rightarrow 40 \rightarrow 1 \dots$ Press $\dashv \blacktriangleleft$ for the order of $40 \rightarrow 39 \rightarrow 38 \dots 3 \rightarrow 2 \rightarrow 1 \rightarrow 40 \dots$

Basic section

Collective presetting of stations (auto preset)

O Receive a broadcast.





(Press the "set/demo" key while the "?" mark is blinking.)



The display differs according to the equipment (country and area), and **"AUTO PRESET"** also may be shown.

- A maximum of 40 stations of the band presently being received will be preset.
- When there are many stations and the intended station has not been preset, please also use "One-by-one presetting (manual preset)".

Reception band indication

[∣] ™0 ¦ 8 9.00 mm TUNER



- When a key is held depressed, preset stations will be skipped at an interval of about 0.5 second.
- Preset stations can be called using the number keys on the remote control unit.

One-by-one presetting (manual preset)

O Press the ENTER key during reception.

ENTER

(Proceed to step @ while "MEMORY" is lit.) **"MEMORY"** lights (for approx. 5 sec.)

2 Select one of the preset numbers from 1 to 40.

The numbers become smaller



The numbers become larger

O Press the ENTER key again.



™OI 89.00 wa COMPLETE!

(Repeat steps **0**,**0**,**0** to preset other stations)

Basic section

• If several stations are preset under the same number, the previous memory is replaced with the latest memory contents.





Each press alternates the mode. AUTO" lit (Auto tuning, stereo reception)

(Auto tuning, stereo reception) ② "AUTO" not lit (Manual tuning, monouval to

(Manual tuning, monaural reception)

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

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

Tuner frequency display (Remote control unit only)					
Each press of the TIME DISP. key changes the displayed contents.					
	I	89.00	(Frequency display)		
L 2 M		8:4 S	(Time display)		

22 Let's recording

Basic section

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Note that this cassette deck cannot record onto





Pause the recording



• Press the "TAPE rec" key during recording. It stops after leaving a non-recorded blank of 4 seconds. (Press the key again to resume recording.)

Stop the recording



Points in CD recording



• Recording stops when the stop (
) key of the CD player is pressed.



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

Listening in the desired sequence (program playback)

Use the following procedure to program desired tracks in a desired order. (up to 32 tracks)



Repeated playback

You can repeatedly listen to a favorite track or disc.

Select the "CD" input.

Setup for repeating a single track



(If the "PGM" indicator is lit, press the PGM key to turn it off.)

O Confirm that the "PGM" indi-

O Select "REPEAT".

cator is not lit.



Setup for repeating all tracks in a disc



O Confirm that the "PGM" indicator is not lit.

(If the "PGM" indicator is lit, press the PGM key to turn it off.)

OSelect "REPEAT ALL".





Setup for repeating selected tracks



O Program the track sequence according to steps **2** to **2** of "Listening in the desired se-**→**24 quence".

OSelect "REPEAT".



Confirm that this is not lit.



Each press switches the repeat mode. Lights ①REPEAT 2 REPEAT ALL - ③ Off.... Repeat deactivated

Confirm that this is not lit.



Each press switches the repeat mode. Lights - ①REPEAT **2 REPEAT ALL** ►REPEAT ALL ◄ **3 Off.... Repeat deactivated**



• All selected tracks will be repeated.

Start playback





To stop repeated playback

Press the REPEAT key repeatedly until the repeat mode is switched off.

• The "REPEAT" or "REPEAL ALL" indicator turns off and playback according to the current CD player mode starts.

Listening to an unexpected title sequence (random playback)

As the titles each time are selected randomly, the music can be enjoyed without getting tired of it.

Select the "CD" input.



In regard to the DOT DISP. key

When a title recorded in a CD-TEXT disc is too long to be displayed in the dot display, press this key to scroll the display and view the characters which has not be displayed.





(When pressed during stop) Scrolls the disc title display.

IJ	$^{\circ}$	ŀ	1	d	Мu	≝.	i	С	
		•			1 1 44				

(When pressed during playback) Scrolls the track title display.



RDS is a system which transmits useful information (digital data) for FM broadcasts together with the broadcast signal. Tuners and receivers designed for RDS reception can extract the information from the broadcast signal for use with various functions such as automatic display of the station name.

This unit is equipped with the following functions utilizing RDS data :

PTY (Program Type Identification) Search : - 29 The tuner automatically searches for a station which is currently broadcasting a specified program type (genre).

PS (Program Service Name) Display : When an RDS broadcast is received, the station name is automatically displayed.

EON (Enhanced Other Network) : \rightarrow 31 When the information to be received is set in advance and any RDS station in the same network starts broadcasting of such information, the reception automatically will be switched to that station. The **"RDS"** indicator lights up when an RDS broadcast (signal) is received.

™ Ü |

TUNER

• Some functions may not be provided or be given different names depending on countries or areas.

Before using RDS

For reception of RDS stations, the auto presetting function must be used to preset the stations. With the auto presetting function, RDS stations are preset with priority. "NO DATA" will be flashed when a station is not preset by auto presetting.

R.D.S CON NEWS

Searching for a desired program type (PTY search)

By specifying the type of program (genre) you want to listen to, the tuner automatically searches for a station which is currently broadcasting a program of the specified type.

Set the reception band to FM. Preset RDS stations with the auto preset function.

→[_21



TRDS TPTY

When an RDS broadcast is received, the program type is shown on the display. If no PTY data is available, or if the station is not an RDS station, "NONE" is dis-

Program type table

(A) ◄◄ ►► keys	₿	Program Type Name	Display
	1	Pop Music	POP M
	2	Rock Music	ROCK M
	3	*M.O.R. Music	M.O.R. M
Т	4	Light Classical	LIGHT M
	5	Serious Classical	CLASSICS
	6	Other Music	OTHER M
	7	News	NEWS
	8	Current Affairs	AFFAIRS
	9	Information	INFO
UP	0	Sport	SPORT
		Education	EDUCATE
		Drama	DRAMA
		Culture	CULTURE
		Science	SCIENCE
		Varied	VARIED
		Weather	WEATHER
		Finance	FINANCE
		Children's programs	CHILDREN
		Social affairs	SOCIAL A
		Religion	RELIGION
		Phone in	PHONE IN
		Travel	TRAVEL
		Leisure	LEISURE
		Jazz music	JAZZ
		Country music	COUNTRY
		National music	NATION M
		Oldies music	OLDIES
		Folk music	FOLK M
		Documentary	DOCUMENT

*M.O.R. Music (Middle of the Road Music)

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3 Start the search.





- No sound is heard while "PTY" is blinking.
- If a program of the desired type cannot be found, "NO PROG" is displayed, then after several seconds the display returns to the original display.
- If a program of the desired type is found, that program is received and the program type name display changes temporarily to the station name display.

To change to a different program type :

Repeat steps 2, 2, 2.

When searching for a Rock Music broadcast

Display while the tuner is searching.

Blinks PRD-SC PTY ROCK М

Program type name display.

When a station is received.

XR-D-S PTY

Goes off

BBC 1

Station name display.

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To be able to listen to the desired information at any time (EON)

By using the EON function, which manages the information of other stations, listening to desired information like traffic information or news etc. can be reserved even when it is not being transmitted at the present. When listening to a station with the "EON" display lit and another station of the same network starts to broadcast an information program for which a reservation has been made, then that station will be selected automatically. When the desired information program ends, return is made to the original program.



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In case of waiting for information with an RDS station without EON function

When there is no "EON" display with the operations of steps **2** and **2** and the desired information is selected in advance, waiting for the desired information will be done only with the presently received RDS station.

In regard to TP (Traffic Program) indicator

When the "TP" indicator is lit, this indicates that the station or another station in the same network is broadcasting traffic information. Even without an EON reservation, traffic information can be heard from the station when "TP" indicator is lit for the presently received station.

Convenient Recording Methods

Selection of the Recording Type

This unit provides the following recording features in addition to normal recording. Select the appropriate method according to the purpose of recording.

To record CD with a simplified method

One-touch recording (CD→ TAPE)



grammed order. (Convenient for recording only the desired CD

Note that this cassette deck cannot record onto

Metal tapes.

tracks in the desired order.) Program recording can be used in combination

with the "One-touch recording".

Note

Program recording

With recording onto tape, the track will be interrupted for the part of the guide tape at the tape reversal, where recording is not possible. Please use single-side recording if this is to be avoided.

→34

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One-touch recording (CD→ TAPE)

The one-touch recording can record all tracks in a CD with a one-touch operation (all-track recording). It can also record the current CD track being played from the beginning (single-track recording).



To interrupt a recording





(Recording and playback will be stopped.)

At the end of the recording	
Cassette deck · Ston is executed a	after

te deck : Stop is executed after an unrecorded portion of about 4 sec. has been produced.

Program recording (CD \rightarrow TAPE)

Desired CD tracks can be programmed in the desired sequence and recorded onto a tape.

Recording preparation is required. - 22 (Be sure to put the cassette deck in stop mode.)

1 Program the desired sequence of CD tracks.



Perform steps **2** and **2** of the procedure in "Listening in the desired sequence (Program playback)". → 24

- When the **PGM** key is pressed to cancel the edited contents, the entire editing contents will be erased.
- Tracks programmed in excess of the tape recording time will be cut off.



2 Start recording.



- Recording of the programmed tracks in the programmed order starts.
- To perform operation on the main unit, see step **I** in the procedure in "**One-touch recording**".
- To interrupt a recording



(Recording and playback will be stopped.)

At the end of the recording

Cassette deck : Stop is executed after an unrecorded portion of about 4 sec. has been produced.

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The lowest and highest frequency bands can be adjusted independently. (Remote control only)



Balance adjustment (Adjust for the desired left / right balance.)

Adjusts the balance of left and right volume. (Main unit operation only)


Adjusting the AUX Input Level

This adjusts the input level for the external equipment (video deck etc.) connected to the AUX input terminal. Adjust so that the volume of the AUX input source sounds at an equivalent level to the CD. (Main unit operation only)



Select AUX (external input).



O Select AUX (external input).



Play the connected equipment.



2 Select "AUX LEVEL ?".





(Press the "set/demo" key while the "?" mark is blinking.)

3 Adjust.



• Adjust the input level.







Turning the knob switches the function as shown in the character information display.

	ormation alopiay.
r► TAPE RVS.	?
O.T.E.	?
A. MEMORY (or A. PRESET) ?
(Only when the	e TUNER input is selected)
AUX LEVEL	?
(Only when the	e AUX input is selected)
BALANCE	?
TIMER SET	?
► A.P.S. SET	?



Set level (display for about 5 sec)

- Adjust the input level while "INPUT" is displayed.
- Adjustment is possible over the range from -6 to +3.

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1 Activate the clock adjustment mode.

(Hold for more than 2 sec.)



• The "CLOCK" display starts to blink during time setting.



• The time display starts to blink.

Enter the figure of hour.



3 Enter the figure of minute.



Example: Adjustment to 8:07



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

Example: Adjustment to 8:07



- If you make a mistake, restart from the beginning.
- To adjust correct time, press the **"set/demo"** key at the same moment as a time announcement.
- After a power failure or the power cord has been unplugged then plugged in again, it is required to set the time again.
- When the time of day has been set by pressing the "set/ demo" key, the display shows "COMPLETE !".

Timer operation

Operate easy To use Timer (O.T.T.)

Playback of the selected input source starts at the specified time, and the unit is switched off after one hour. This timer operates only once directly after setting.

Timer playback, timer recording (PROG.1, PROG.2)

With each of the two timer programs, a selected source can be played (or radio broadcast can be recorded) in the previously set time period.

AI timer playback (PROG.1, PROG.2)

The volume increases gradually after start of timer playback.

Sleep timer (SLEEP)

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

Connect the related equipment under reference to "System connection".

Setting the O.T.T.

Timer playback is possible simply by setting the time.

The source selected last before the unit was switched off will be played. One hour after start of timer playback, the unit will be switched off automatically.



To execute O.T.T.

Perform steps **2** and **2** in the procedure in "Activating or deactivating the O.T.T. or program timer execution". $\rightarrow 42$

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→ 6

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Setting the Program Timer

Two 24-hour timer systems (PROG.1, PROG.2) (which can be used every day) are available. In each of PROG.1 and PROG.2, the timer data including the operating period and played contents can be set and selected to be activated or not as required.



Application section

gram contents.)

key.)

Adjust the clock before setting the timer.

Timer operation

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above). (1) **PLAY** (1) Select the preset station No. (2) REC **3** AI PLAY (2) Enter it. set/d (2) Enter it. **O** Select the input source. (1) Select what is to be recorded. VOLUME / multi contro - 1) TUNER Broadcasts 2 AUX External input set/de (2) Enter it. • When the O.T.T. has been set by pressing the "set/ demo" key, the display shows "COMPLETE !".

To execute program timer

Perform steps 2 and 2 in the procedure in "Activating or deactivating the O.T.T. or program timer execution". → 42

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Activating or deactivating the O.T.T. or program timer execution





Set the time.

- The unit is turned OFF automatically after the set time has elapsed.
- Each press increases the timer period by 10 minutes. The sleep timer can be set up to 90 minutes.

 $10 \rightarrow 20 \rightarrow 30...70 \rightarrow 80 \rightarrow 90 \rightarrow Cancel \rightarrow 10 \rightarrow 20...$



To cancel

pplication section

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

Maintenance



Cleaning the head section

Cleaning the heads and peripheral components

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

1.Open the cassette holder.

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

Demagnetizing the head

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

Nota

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.

In regard to contact cleaners

Do not use contact cleaners because it could cause a mal-

function. Be specially careful not to use contact cleaners

containing oil, for they may deform the plastic component.

Maintenance of the Set

When the front panel, the case, etc. becomes dirty, wipe with a soft, dry cloth. Do not use thinner, alcohol, etc., as these can cause discoloration.

Reference

Caution on condensation

Condensation (of dew) may occur inside the unit when there is a great difference in temperature between this unit and the outside.

This unit may not function properly if condensation occurs. In this case, leave the unit for a few hours with the power left ON, and restart the operation after the condensation has dried up.

Be specially cautious against condensation in a following circumstance:

When this unit is carried from a place to another across a large difference in temperature, when the humidity in the room where this unit is installed increases, etc.

Note related to transportation and movement Before transporting or moving this unit, carry out the following operations.

O Remove the CD from the unit.

② Press the ►/II key of the CD.

• Wait for some time and verify that the display becomes as shown in the figure.

CD NO DISC

② Wait a few seconds and turn the unit OFF.

Stored contents which are cleared immediately when power plug is unplugged from power outlet Stored contents which are cleared in at least a day after	Clock display Amplifier section "on/standby" status (ON or STANDBY) Last input selection
	"on/standby" status (ON or STANDBY)
power plug is unplugged from power outlet	Volume control value Tone control levels AUX input level Balance setting Tuner section Receiving band Frequency Preset stations Auto/mono setting Program timer setting contents Cassette deck unit Transport direction "tape EQ." Reverse mode

WARNING NOTICE:

IN MOST CASES IT IS AN INFRINGEMENT OF COPY-RIGHT TO MAKE COPIES OF TAPES OR DISCS WITH-OUT THE PERMISSION OF THE COPYRIGHT OWNERS. ANYONE WISHING TO COPY COMMERCIALLY AVAIL-ABLE TAPES OR DISC SHOULD CONTACT THE ME-CHANICAL COPYRIGHT PROTECTION SOCIETY LIM-ITED OR THE PERFORMING RIGHTS SOCIETY LIMITED. What seems to be a malfunction is not always so. Before calling for service, check the following table according to the symptom of your trouble.

Operation to reset

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

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

Unplug the power cord from the power outlet then, while holding the "set/demo" key depressed, plug the power cord again.

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Symptom	Cause	Remedy
Sound is not produced.	 The speaker cords are disconnected. The volume control is set to the minimum position. 	 Connect properly referring to "System connection". → 6 Adjust to an required volume.
	 The MUTE key of remote control unit is switched ON. The headphone plug is inserted into the jack. The speaker cords are short-circuited. 	 Switch MUTE OFF. → 15 Unplug the headphone plug. Turn the unit OFF, remove the short-circuit and turn the unit ON again.
No sound from the head- phones.	Imperfect insertion.	● Insert correctly. → 15
Sound is not produced from the left or right speakers.	 The speaker cords are disconnected. The BALANCE is set completely to the left or right channel. 	 Connect properly referring to "System connection". → 〔6〕 Adjust the optimum left and right balance. → 〔36〕

Amplifier section/Speakers

Tuner section

Symptom	Cause	Remedy	
The clock display blinks with- out 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. 	→ 38
Timer operation is not pos- sible.	 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 "Clock adjustment". Set the timer ON time and OFF time. Press the TIMER key to set up the execution. 	+4
Radio stations cannot be re- ceived.	 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. Select a band. Tune to the frequency of the desired station. 	+ 6 20
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 position from the road. Switch the suspected electric appliance OFF. Install the TV or the system at an increased distance between them. 	
A station has been preset but it cannot be received by press- ing 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. 	→ 21

In case of difficulty 45

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CD player section

Symptom	Cause	Remedy
A CD is placed in the player but it cannot be played.	 The disc is placed upside down. The disc position is displaced. The disc is extremely dirty. The disc is scratched. Dew is condensed on the optics lens. 	 Place the disc properly, with the label side facing upward. Place the disc properly. Clean the disc referring to "Disc handling precautions". Try another disc. Refer to "Caution on condensation" and remove the condensation by evaporation.
Sound is not produced.	 The disc has not been placed. The player is not put to the play mode. The disc is extremely dirty. The disc is scratched. 	 Place a disc in the CD player. Press the ►/II key. Clean the disc referring to "Disc handling precautions". Try another disc.
Sound skips.	 The disc is dirty. The disc is scratched. The player is subject to vibration. 	 Clean the disc referring to "Disc handling precautions". → 5 Try another disc. Install the unit in a place not subject to vibrations.

Remote control unit

Symptom	Cause	Remedy	
Remote control operation is not possible.	• The remote control is too far away from the system, the controlling angle is deviated or there is an obstacle in between.	 Replace with new batteries. Operate the unit inside the remote controllable range. Load a CD or cassette tape in the component to be played. 	+ [3] + [3]

In case of difficulty

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Cassette deck

Symptom	Cause	Remedy
Sound cannot be produced by pressing the play key.	 The head is dirty. The tape is wound too tight due to irregular winding. A nonrecorded tape is played. 	 Clean the head referring to "Maintenance". Try another tape. Play a recorded tape.
No operation occurs even	• The cassette holder is not closed com-	• Close the holder completely. → 18
when an operation key is pressed.	 pletely. The operation key is pressed immediately after closing the cassette holder. The operation key is pressed in less than 4 seconds after turning the power ON. A tape is not inserted in the unit. The tape is wound too tight due to irregular winding. The tape is fully wound to one of the reels. 	 Press operation keys in more than a few seconds after closing the cassette holder. Press operation keys after waiting for more than 4 seconds. Insert a tape. Try another tape. Change the tape transport direction or reverse the tape insertion orientation.
The cassette holders cannot	• The key is pressed during recording or	Press in stop mode.
be opened by pressing the "▲ push OPEN″ area.	playback.The microcomputer is malfunctioning due to external noise.	• Reset the microcomputer.
Sound is harsh or high fre- quencies are not reproduced.	The head is dirty.The tape is stretched or shrunk.	 Clean the head referring to "Mainte- nance". Try another tape.
Sound is distorted.	 The recording level has not been adjusted. (During AUX input operation) The tape being played was recorded with distorted sound. 	Adjust the AUX input level.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 "tape EQ." off. 	 Demagnetize the head referring to "Maintenance". Install the system at a distance from other electric appliances and TV. Set the "tape EQ." to on.
Sound vibrates.	 The capstans or pinch rollers are dirty. The tape is wound irregularly. 	 Clean the head referring to "Maintenance". 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. 	 Use a cassette with an unbroken recording protect tab or block the hole. Close the holder completely. Set the input selector to the source to be
	• The tape is fully wound to one of the reels.	 Change the tape transport direction or reverse the tape insertion orientation. → 18

Specifications

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Main unit

[Amplifier section]
Effective output power during STEREO operation
1 kHz, 10 % T.H.D., at 6 Ω 15 W + 15 W
Rated output power during STEREO operation
Other countries
1 kHz, 0.7 % T.H.D., at 6 Ω 12 W + 12 W
Frequency response
AUX 20 Hz~20 kHz (0 dB ~ -3dB)
[Tuner section]
FM tuner section
Tuning frequency range 87.5 MHz ~ 108 MHz
MW (AM) tuner section
Tuning frequency range
9 kHz step 531 kHz ~ 1,602 kHz
10 kHz step 530 kHz ~ 1,610 kHz
[CD playar aastian]
[CD player section]
Laser
D/A Conversion 1 Bit
Frequency response 20 Hz~20 kHz
Wow and flutter Less than unmeasurable limit
[Cassette deck section]
Track 4-track, 2-channel stereo
Recording systemAC bias system
(Frequency: 65 kHz)
Heads
Playback / recording head1
Erasing head1
Motors
Wow and flutter 0.2 % (W.R.M.S.)
Fast winding time Approx. 100 seconds
(C-60 tape)
[General]
Power consumption
Dimensions W : 180 mm
H : 257 mm
D : 275 mm
Weight (net) 5.1 kg

Speakers

Enclosure	Book shelf type, magnetically shielded
Speaker config	uration
Woofer	100 mm, cone type
Tweeter	50 mm, cone type
Impedance	6 Ω

Maximum input level	
Dimensions	
	H : 255 mm
	D : 240 mm
Weight (net)	2.4 kg(1 piece)



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

• Sufficient performance may not be exhibited at extremely cold locations (where water freezes).

KENWOOD

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 this product.

Model _____ Serial Number __

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