

KENWOOD

STEREO CASSETTE TAPE DECK

KX-W4060
KX-W894

INSTRUCTION MANUAL

KENWOOD CORPORATION

This manual contains instructions for two models.
Model availability and features (functions) may differ
depending on the country and sales area.

Introduction

Your choice of this product indicates that you are a devotee to excellence in sound reproduction.

We appreciate your patronage and take pride in the long tradition of quality components that our company represents.

So that you can get the most out of your unit, we suggest that you take the time to read through this manual before you hook up and operate your system. This will acquaint you with operating features and system-connection considerations so that your listening pleasure will be enhanced right from the start. You will notice that in all aspects of planning, engineering, styling, operating convenience and adaptability we have sought to anticipate your needs and desires.

Keep this manual handy for future reference.

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 _____

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.

WARNING NOTICE:

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

Accessories

Audio cord 2



System control cord 1





Except for U.S.A., Mexico, Canada, U.K., Europe, and Australia

AC plug adaptor 1



Contents

Caution : Read the pages marked  carefully to ensure safe operation.

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Special feature

 **Caution: Read this page carefully to ensure safe operation.**

The cassette deck incorporates the Dolby HX Pro headroom extension function to provide a recording with superior high-frequency characteristics.

CCRS: When connected with a KENWOOD CD player provided with "CX5" marking through the system control cord, this unit allows to use the CCRS, which starts recording automatically after setting the optimum recording level for the CD and tape to be used in recording.

DPSS functions: Various types of playback can be enjoyed, as those of CD playback function.

- Skipping selections to listen to a desired selection
- Listening to the same selection repeatedly

Dubbing function: With an easy operation, the tape loaded in Deck A can be dubbed onto the tape in Deck B.

Before applying power

Units are designed for operation as follows.

U.S.A., Mexico and Canada 120 V only
 U.K. and Australia 240 V only
 Europe (Except for U.K.) 230 V only
 Other countries 110-120 / 220-240 V switch

For the United Kingdom

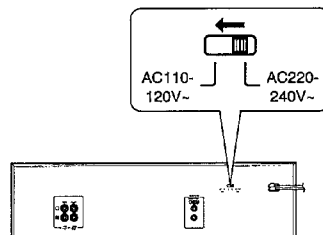
Factory fitted moulded mains plug

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

AC voltage selection

This unit operates on 110 - 120 volts or 220 - 240 volts AC. The AC voltage selector switch on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

AC voltage selector switch







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

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

Safety precautions

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

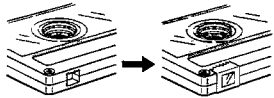
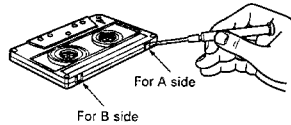
	CAUTION <small>RISK OF ELECTRIC SHOCK DO NOT OPEN</small>		CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
	THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.		
	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.		

Before operation

Notes on cassette tape

Safety tab (accidental erasure prevention tab)

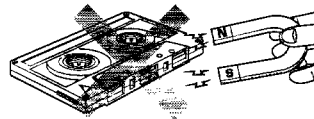
After an important recording has been finished, break the safety tab, to prevent the recorded contents from being erased or recorded on accidentally.



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

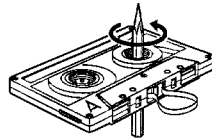
To store cassette tapes

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



When there is slack in the tape

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



Notes:

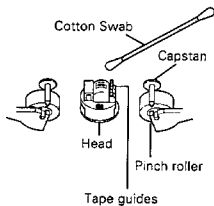
1. 120-minute cassette tape

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

2. Endless tapes

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

Cleaning the head section



Cleaning the heads and peripheral components

For maintaining the best condition of the deck and for longer service life, always keep the head (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 be deteriorated. In such a case, demagnetize the head using a commercially available demagnetizer (head eraser).

Note:

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

Beware of condensation

When water vapor comes into contact with the surface of cold material, water drops are produced.

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

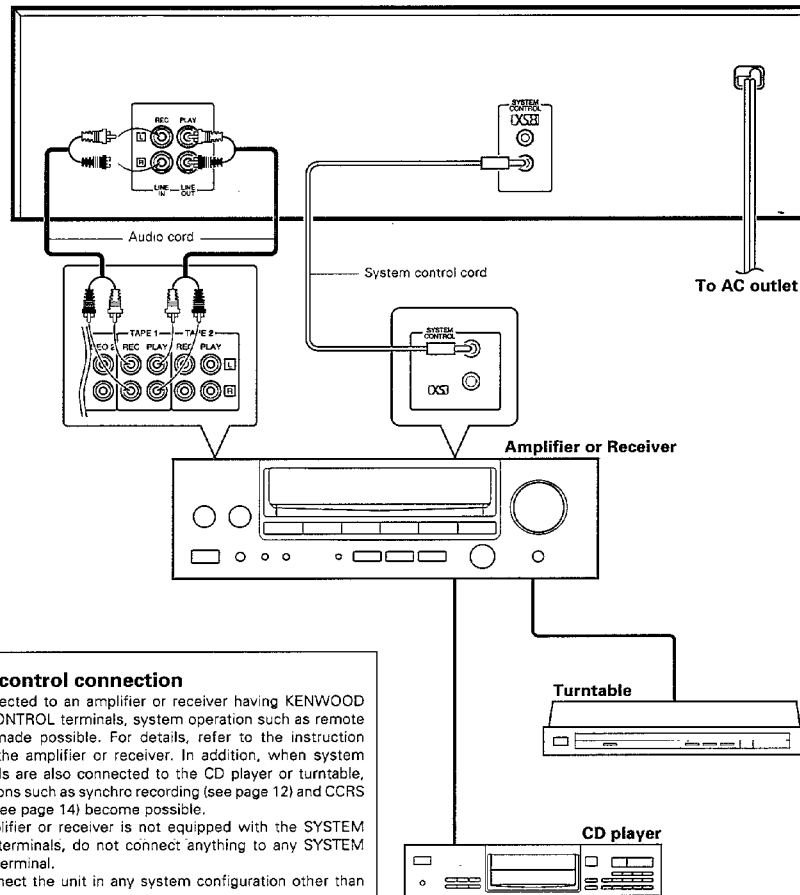
This is not a malfunction, however, and the unit should be dried. (To do this, turn the POWER switch ON and leave the unit as it is for several hours.)

Be especially careful in the following conditions:

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

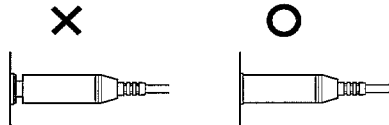
System connections

Make connection as shown below. When connecting the related system components, refer also to the instruction manuals of the related components.
Do not plug in the power lead until all connections are completed.



System control connection

When connected to an amplifier or receiver having KENWOOD SYSTEM CONTROL terminals, system operation such as remote control is made possible. For details, refer to the instruction manual of the amplifier or receiver. In addition, when system control cords are also connected to the CD player or turntable, other functions such as synchro recording (see page 12) and CCRS recording (see page 14) become possible. If your amplifier or receiver is not equipped with the SYSTEM CONTROL terminals, do not connect anything to any SYSTEM CONTROL terminal. Do not connect the unit in any system configuration other than specified.

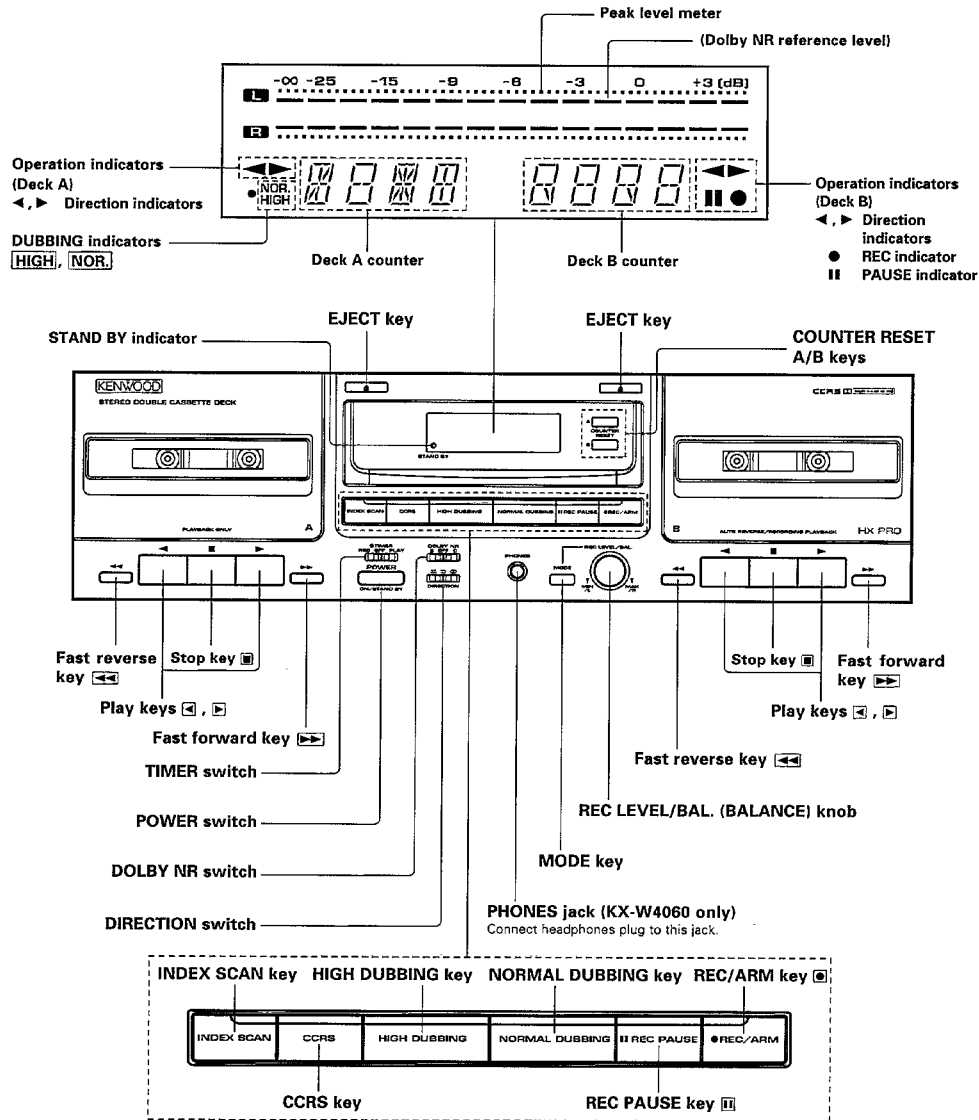


- Be sure to insert the system control cord plugs fully into the SYSTEM CONTROL terminals.
- If the system control cord and audio cords are not connected properly, the automatic system governing remote control and system functions will not operate.

Notes:

1. Connect all cords firmly. If connections are loose, there could be loss of sound or noise produced.
2. When plugging and unplugging connection cords, be sure to first remove the power cord from the AC outlet. Plugging/unplugging connection cords without removal of the power cord can cause malfunctions or damage to the unit.

Controls and indicators



STAND BY mode of POWER switch

When the power cord of this unit is plugged into an AC outlet, the STAND BY indicator lights up regardless of the ON/OFF setting of the POWER switch. This indicates that a small amount of current is being supplied to the unit to back up the memory contents. This mode is referred to as the Stand By mode.

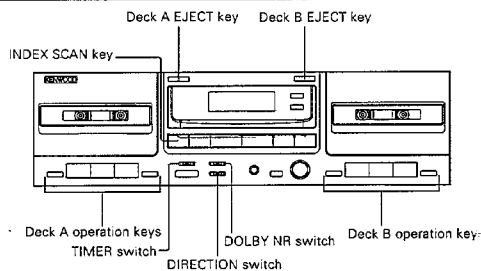
Listening to cassette tapes

Before starting playback

- ① Set the **TIMER** switch to **OFF**.



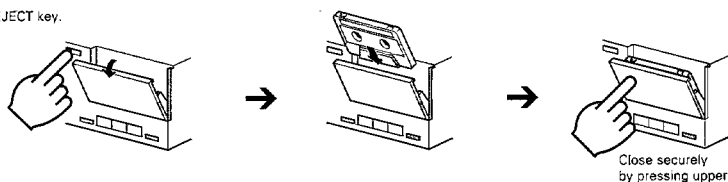
- ② Set the **POWER** switch to **ON**.



To playback a tape

1 Insert a cassette tape.

Press the **EJECT** key.



- The type of tape, Normal or Chrome is detected and set automatically.
- Be sure to remove tape slack before insertion.

2 Determine the playback conditions.

- ① Select the **playback mode**.



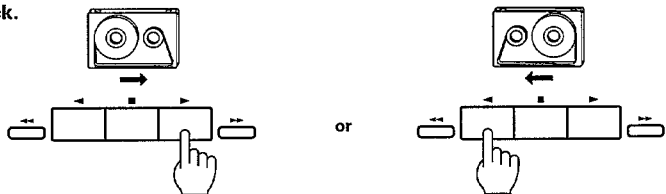
- To play both sides endlessly.
- To stop after playing both sides of tape.
- To stop after playing one side of tape.

- ② Select the **Dolby NR mode**.

Select according to the tape to be played.

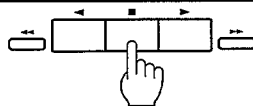


3 Start playback.



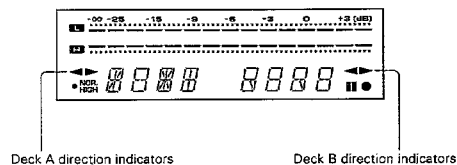
To stop playback

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



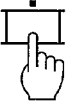
Tape transport direction indicators

The **▶▶** indicators show the direction of tape transport in its playback or recording. The direction selected when the tape was stopped the last time is maintained even after the power is turned off. When the tape is started automatically by the automatic play operation, etc., the transport starts with the direction shown by the direction indicator. If you want to change the transport direction for the next time the power is turned on, press the play key of the opposite direction before turning power off.

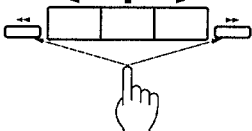




■ To wind the tape at high speed

1 Stop playback.




2 Press the <<< key or >>> key.




: Fast tape winding in the ← direction
 : Fast tape winding in the → direction

To stop fast tape winding

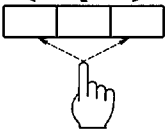
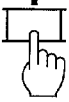


■ Index scan operation (Deck A only)
Index scan plays the first about 14 seconds of every tune on tape.





- If the DIRECTION switch is set to "▷" or "◁", Index scan is performed on both sides of tape.

To cancel Index scan

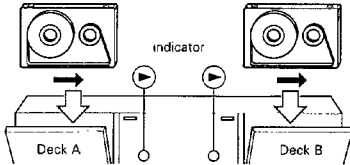
- Normal playback starts.
- Playback stops.

Note:
The tape direction of Index scan is indicated by the lighting direction indicator. To reverse the Index scan direction, press play key  or  then immediately press the [INDEX SCAN] key.

■ Relay playback


This function plays back the tapes in both decks A and B continuously and repeatedly.



1 Insert tapes.



- Tapes are played in the directions indicated by their respective indicators on the display.

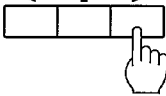
2 Select the playback mode.



 ...Relay playback of both sides of tapes in decks A and B is repeated.
 ...Relay playback of only one side of tapes in decks A and B is repeated.

- Relay playback cannot be performed if the DIRECTION select switch is set to "◁".

3 Start playback.



- The playback starts with the deck the play key of which is pressed.

Usage of counter

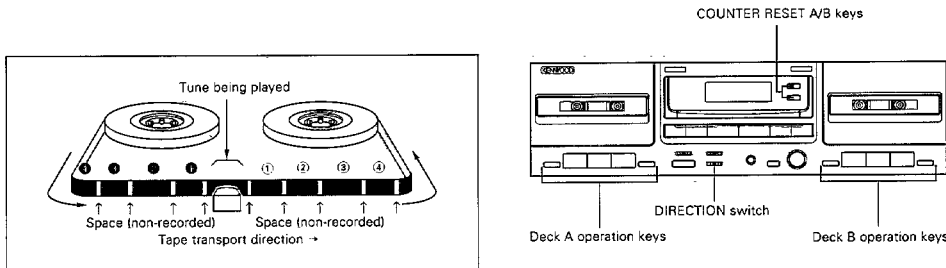
Before starting recording (playback), press the [COUNTER RESET] key to reset the counter to "0000", and write down the counter reading when the recording (playback) should be stopped in the middle of the tape, etc.; this will make it easy to locate the same position when you want to continue recording (playback) next time.



DPSS operation

The DPSS (Direct Program Search System) enables the following convenient operations according to the instructions of the operation keys (these operation are however not available on both decks simultaneously). The DPSS functions are based on the detection of non-recorded spaces of 4 seconds or more between tunes.

1. **Skip play:** By specifying a tune located several tunes beyond (or behind) the tune being played, skips tunes between the current tune and the selected tune and starts playback from the beginning of the selected tune. Up to 16 tunes can be skipped in Skip Search.
2. **Single-tune repeated playback:** During playback of the selection to be listened to repeatedly, pressing PLAY key again repeats the playback of the selection 16 times and then returns to the normal playback.



■ Skip play operation

The example below shows the case in which the direction indicated by the tape transport direction indicator is ►. If the direction indicated by the tape direction indicator is ◀, always press the keys for the opposite directions to those shown in the illustrations below.

<p>To play a tune located immediately after the tune being played</p> <p>Press once during the playback.</p>	<p>To play the tune being played from the beginning</p> <p>Press once during the playback.</p>
<p>To play a tune located 4 tunes beyond</p> <p>Press 4 times during the playback.</p>	<p>To play the tune located 4 tunes behind</p> <p>Press 5 times during the playback.</p>

Index scan and DPSS will not function properly with the following types of tapes.

- Tapes containing spaces of 4 seconds or more, such as conversations and speeches.
- Tape containing extremely low levels or non-recorded spaces in the middle of tunes, such as classical music.
- Tapes containing recording of large noise between tunes.
- Tapes containing spaces of less than 4 seconds between tunes.
- Tapes recorded with low recording level.
- Tapes recorded using Cross-fade recording.

How to record (deck B only)

The cassette deck incorporates the Dolby HX Pro headroom extension function to provide a recording with superior high-frequency characteristics.

■ Ordinary recording

Since this unit is not designed for use with metal tapes, recording on metal tapes cannot be carried out.

1 Set up the cassette deck.

- ① Insert a tape in deck B.
- ② Set the tape transport direction.
- ③ Select one-side or two-side recording.
- ④ Select the Dolby NR mode.

3 Set the recording level.

- ① Play a music source.
- ② Enter the record-pause mode.
- ③ Adjust the recording balance and recording level.
 - Refer to "Recording level and balance adjustments".
- ④ Stop playing the source.

2 Select the source to be recorded.

4 Start recording.

- ① Play the music source from the beginning.
- ② Press the [REC/ARM] key.

Press once.

 - Recording will start.
 - The deck enters the stop mode automatically when the tape has been recorded till the end.

Recording level and balance adjustments

Each press switches the display modes.

Recording level decreases.

Recording level increases.

Right sound decreases. Left sound decreases.

REC LEVEL ← Counter → REC BAL

- Adjust the recording level so that the 0 dB of the peak level meter sometimes lights up.

Dolby noise reduction system


The Dolby noise reduction system was developed to reduce the tape hiss noise generated during playback. The optimum effect of the Dolby NR system is obtained when the same type NR system is used for both recording and playback. If a different type NR system is used, playback is not performed correctly. Make sure that the same type noise reduction system is used for both recording and playback.

Dolby B NR
The most popular noise reduction system used in home audio components. Usually, Dolby NR system corresponds to B NR.

Dolby C NR
Dolby C NR offers improved noise reduction performance over that of the Dolby B NR. It features a superior noise reduction effect. Use Dolby C NR to record or playback with this unit. It is recommended that tapes recorded with the Dolby NR system be marked "B" or "C", so that they can easily be distinguished.


10 KX-W4060/KX-W894 (En)

■ To pause recording temporarily




- The indicator lights up.

To resume recording



■ To stop recording



1

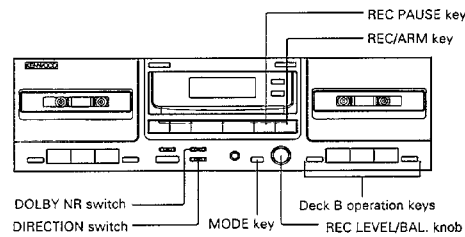


2 Stop playing the source component.

■ How to provide non-recorded blanks between programs

It makes a non-recorded blank of about 4 seconds.

In stop mode	During recording
Press successively twice.	Press once.
	
<ul style="list-style-type: none"> • After leaving a non-recorded blank of about 4 seconds, the deck enters the record-pause mode. 	

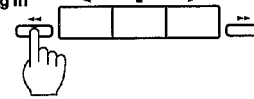


■ To re-start recording after mistake

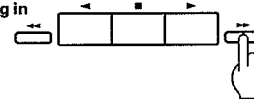
The following procedure is useful when you want to cancel recording in progress and restart it. A non-recorded space of about 4 seconds or more should be reserved before the position where recording was started.

1 Stop recording and rewind tape.

During recording in the ► direction:





During recording in the ◀ direction:




- The recording is aborted, the tape is rewound to the beginning of the tune being recorded, and the deck enters the stop mode after leaving a non-recorded space of about 2 seconds from the end of the previous tune.


2 Re-start recording.

① Press the  key twice.



- A non-recorded space of about 4 seconds is reserved on tape, then the tape transport stops.

② Press the  key once.



- Recording starts.

Recording with Dolby HX Pro

When recording is started with this unit, the Dolby HX Pro headroom extension function automatically operates to provide a recording with superior high-frequency characteristics.

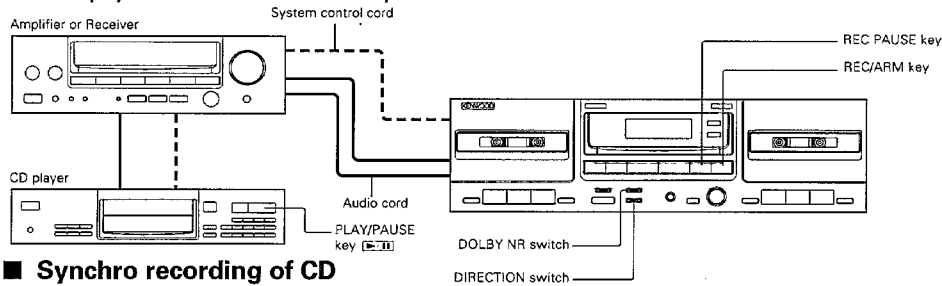
What is Dolby HX Pro

In ordinary recording using high-frequency biasing, the high-frequency bias current, which should be constant, is increased with some recording sources due to the high-frequency component contained in the music, etc. This increase affects the recording characteristics with distorted high frequencies and degraded dynamic range and frequency response.

The Dolby HX Pro circuit detects the high-frequency component contained in the music source being recorded, and reduces excessive bias current to make it constant. As a result, the recording characteristics of high frequencies are drastically improved, and the improved high-frequency reproduction can also be enjoyed even when the tape is played on tape decks which are not equipped with circuit.

Synchro recording

By connecting this unit with a KENWOOD "XS" type amplifier (receiver) with a SYSTEM CONTROL jack and a KENWOOD CD player with a SYSTEM CONTROL jack using system control cords, recording on this unit and playback on the CD player can be started simultaneously.

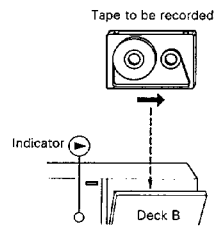


■ Synchro recording of CD

1 Make preparations for recording.

- ① Insert a tape in deck B.

- ② Adjust the tape transport direction.



- ③ Select the side(s) to be recorded onto.



-Two-side recording
-One-side recording

- ④ Select the Dolby NR mode.



2 Adjust the recording level.

- ① Play a CD.



- ② Set the record-pause mode.



- ③ Adjust the recording balance and recording level.

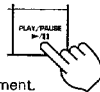
- Refer to "Recording level and balance adjustments" on page 10.
- ④ Stop playing the CD.

3 Set the record-pause mode.



4 Start playing the CD.

Press the key or the numeric key corresponding to the track No. to start recording with.



- Recording starts at this moment.
- When the CD player has completed playback, the cassette deck stops recording and enters the stop mode.

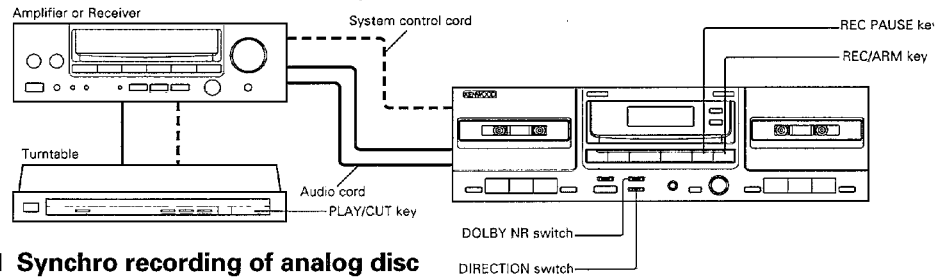
To pause.....Press the key of the CD player.

To restart recordingPress the key of the CD player.

To stopPress the key of the CD player.

- If the stop key of the cassette deck is pressed, the cassette deck enters the stop mode but the CD player does not.

By connecting this unit with a KENWOOD "XSJ" type amplifier (receiver) with a SYSTEM CONTROL jack and a KENWOOD turntable with a SYSTEM CONTROL jack using system control cords, recording on this unit and playback on the turntable can be started simultaneously.

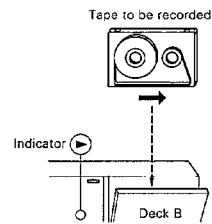


■ Synchro recording of analog disc

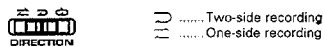
1 Make preparations for recording.

- ① Insert a tape in deck B.

- ② Adjust the tape transport direction.



- ③ Select the side(s) to be recorded onto.

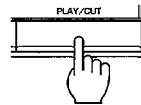


- ④ Select the Dolby NR mode.



2 Adjust the recording level.

- ① Start playing an analog disc.



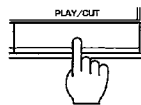
- ② Set the record-pause mode.



- ③ Adjust the recording balance and recording level.

- Refer to "Recording level and balance adjustments" on page 10.

- ④ Stop playing the analog disc.

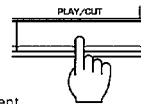


- The cassette deck returns to the stop mode.

3 Set the record-pause mode.



4 Start playing the analog disc.



- Recording starts at this moment.
- When the turntable has completed the play, the cassette deck stops recording and enters the stop mode.

To stop recording in the middle

Press the PLAY/CUT key of the turntable.

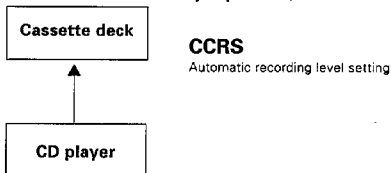
- If the stop key of the cassette deck is pressed, the cassette deck enters the stop mode but the turntable does not.

Recording of CD playback (CCRS)

When connected with a KENWOOD CD player provided with "CCRS" marking through the system control cord, this unit allows to use the CCRS, which starts recording automatically after setting the optimum recording level for the CD and tape to be used in recording.

CCRS (Computer-controlled CD Recording System)

When the CCRS key is pressed, the following operations occur automatically and CD sound is recorded on tape.



1. The CD starts to be played, and the peak value is sampled from the levels of the signals on the CD.
2. The optimum recording level for the specific CD is determined and set based on the peak value sampled.
3. The recording preparation steps above take about 20~200 seconds, after which the actual recording starts.
4. After recording (when the CD player is stopped or when the tape has run out), both the cassette deck and CD player stop.

- With CD players equipped with the EDIT function, it is possible to make recordings in which the last songs on sides A and B are not cut off in the middle and in which the recording capacity of the tape is used to the fullest extent. (Set the DIRECTION switch of the deck to "→".)

■ CCRS recording (deck B only)

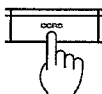
1 Set the input selector switches of the amplifier (receiver) for the CD source.

2 Place a CD in the CD player.

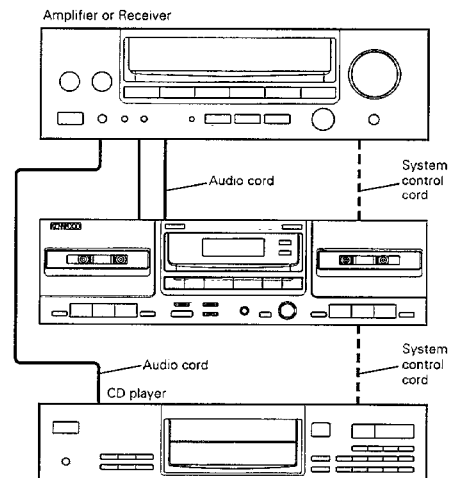
- When edited recording is required, press the **EDIT** key on the CD player.

3 Insert a tape in deck B.

4 Press the CCRS key.



- When performing CCRS recording with a CD player which can be loaded multiple compact discs, set the CD player to TRACK mode, press the disc select key and press the **CCRS** key.
- The CCRS indicator blinks, and actual recording starts in about 20 to 200 seconds (after creating a non-recorded blank of about 8 seconds).



How to cancel CCRS

During recording level setting:

Press the Stop key of the CD player or the stop key of the cassette deck.

During CCRS recording:

Press the Stop key of the CD player, then press the OPEN / CLOSE key of the CD player.

After completion of CCRS recording:

Press the OPEN/CLOSE key of the CD player.

- After completion of CCRS recording, be sure to cancel the CCRS and ensure that the CCRS indicator has gone off.
- After recording, the cassette deck and CD player enter the stop mode automatically.

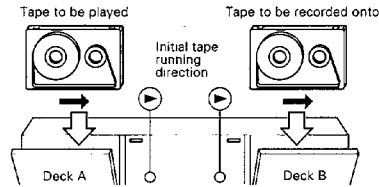
Notes:

1. If the CCRS key is pressed during CD playback, playback stops and CCRS operation begins.
2. If the remaining amount of tape is small, CCRS may not function correctly or CCRS operation may be canceled in mid-operation.
3. Once the CCRS recording level has been set, the recording balance and recording level cannot be adjusted while the CCRS operation is being carried out.
4. The CCRS function sets the peak level for the entire CD in approx. 20~200 seconds. On very rare occasions, however, the function may not be able to set the optimum recording level. If this occurs, carry out recording manually referring to the "Ordinary recording" section. (page 10).
5. The CCRS recording level setting is canceled when the OPEN/CLOSE key of the CD player is pressed or when the power is switched OFF.

Tape dubbing operation

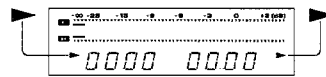
The dubbing refers to the copy of the recorded contents of a tape to another tape (tape in Deck A → tape in Deck B).
Normal-speed dubbing: Copy at normal tape speed.
High-speed dubbing: Copy at double the normal speed.

1 Insert tapes in the cassette decks.

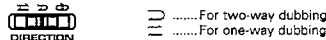


2 Set the same tape transport direction for both tapes.

- Refer to page 7.

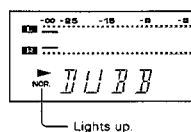
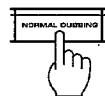


3 Select one-way or two-way dubbing mode.

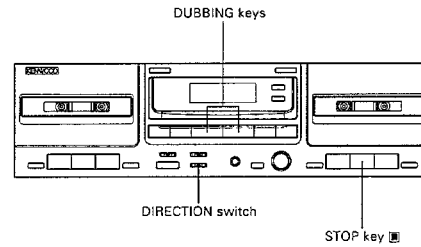
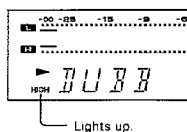
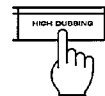


4 Start dubbing.

For normal-speed dubbing



For high-speed dubbing



To stop dubbing

Press the Stop key of Deck B.



- Both Decks A and B enter the stop mode.

To pause dubbing

Normal-speed dubbing: Press the NORMAL DUBBING key.

High-speed dubbing: Press the HIGH DUBBING key.

- Only deck B enters the record-pause mode after leaving a non-recorded space of about 4 seconds in case of normal-speed dubbing, or about 6 seconds in case of high-speed dubbing.
- To skip tunes you do not want to dub on another tape during dubbing, press the [] key of Deck A.
- To resume dubbing after pause, press the same DUBBING key as above ([NORMAL DUBBING] or [HIGH DUBBING]) again.

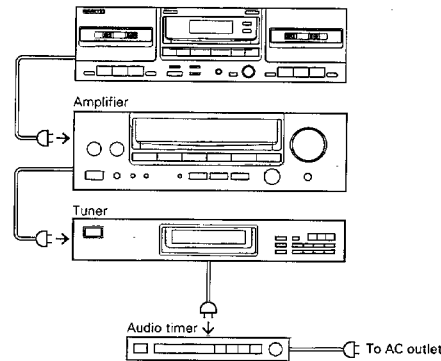
Notes:

1. The recording balance and recording level cannot be adjusted for dubbing.
2. The DOLBY NR does not function during dubbing.
 - * The tape recorded by dubbing features the same NR system as the original tape in Deck A.
3. Noise from TV may interfere with dubbed sound if high-speed dubbing is executed near a TV set. To prevent this, install the system farther from the TV set.
4. If the original tape was recorded at a high level, the sound quality may be degraded, if high-speed dubbing is used. In such a case, use normal-speed dubbing.




Timer operations

This unit incorporates a built-in timer standby function. By using an audio timer optionally available in the market, wake-up playback and unattended recording of tape can be started at any time of the day.

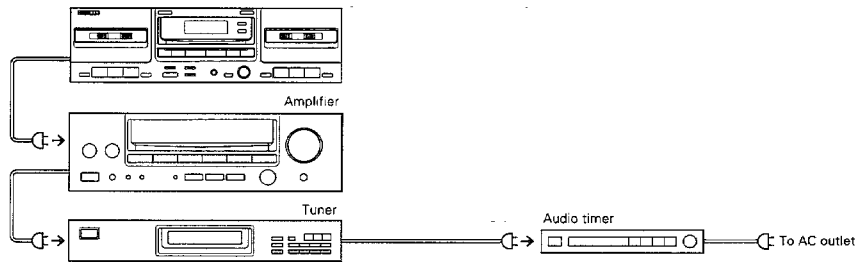
Preparations for timer playback and recording
 Connect the power cords of the components to the timer so that their powers can be turned on via the timer.
 Read carefully the instruction manual of your audio timer.
 When operating the unit other than CD player using an audio timer, be sure to remove the disc from the CD player.



■ Timer playback

<p>1 Set the power switches of the components to ON.</p> <p>2 Make preparations of the cassette deck.</p> <p>① Insert a cassette tape(s).</p> <ul style="list-style-type: none"> The type of tape, that is, Normal or Chrome is set automatically. Remove the tape slack before insertion. If relay playback is required, insert tapes in both decks A and B. <p>② Select the playback mode.</p> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <p>∞ Endless playback</p> <p>∞∞ Stops after playing two sides.</p> <p>∞∞∞ Stops after playing one side.</p> </div> </div> <ul style="list-style-type: none"> If relay playback is required, set to "∞∞" or "∞∞∞". <p>③ Select the Dolby NR mode.</p> <div style="display: flex; align-items: center;">  </div> <ul style="list-style-type: none"> Set according to the tape(s) to be played. 	<p>3 Set the amplifier volume.</p> <ol style="list-style-type: none"> Start playback. Adjust the volume of the amplifier. Rewind the tape(s) to the start position. <p>4 Set the timer so that the tape starts at the desired time of the day.</p> <ul style="list-style-type: none"> Read carefully the instruction manual of your audio timer. <p>5 Set the TIMER switch to PLAY.</p> <div style="text-align: center;">  </div> <ul style="list-style-type: none"> When the set time comes, tape playback starts automatically.
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Note:
 If tapes are inserted in both decks A and B, timer playback starts with deck A.



■ Timer recording of tuner broadcast

1 Set the power switches of the components to ON.

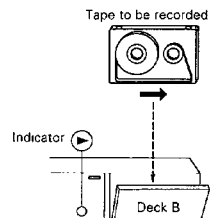
2 Receive the desired radio station with the tuner.

3 Make preparations of the cassette deck.

① Insert a tape(s).

- Insert a tape in deck B.

② Adjust the tape transport direction.



③ Select the side(s) to be recorded onto.



- Two-side recording
- One-side recording

④ Select the Dolby NR mode.



4 Adjust the recording level.

① Set the record-pause mode.

② Adjust the recording level.

- Refer to "Recording level and balance adjustments" on page 10.

5 Set the amplifier volume to the minimum position.

6 Set the desired time when the recording is to be started.

- Read carefully the instruction manual of your audio timer.

7 Set the TIMER switch to REC.



- When the set time comes, the powers of the related components are turned ON and recording starts.
- Recording stops when the end of side to be recorded is reached.

Note:

To ensure that the cassette deck's automatic shut off switch operates before the power is shut off, set the timer so that it operates for a little longer than the playing time of the tape.

In case of difficulty

What appears to be a malfunction may not always be serious. If your unit should not perform as expected, consult the table below to see if the problem can be corrected before seeking help from your dealer or service representative.

Symptom	Cause	Remedy
Sounds is not produced when the Play key is pressed.	<ul style="list-style-type: none"> The connection cords are connected improperly. The head is dirty. Tape is irregularly wound and hard to take up. A non-recorded tape is being played. 	<ul style="list-style-type: none"> Connect the cords properly referring to "System connections". Clean the head referring to "Cleaning the head section". Replace the tape. Play a recorded tape.
The deck does not work when an operation key is pressed.	<ul style="list-style-type: none"> The cassette holder is not closed completely. The operation key was pressed immediately after closing the cassette holder. The operation key was pressed within less than 3 seconds after the power was turned on. Tape is not inserted. Tape is irregularly wound and hard to take up. Tape has been fully wound to reel. 	<ul style="list-style-type: none"> Close the cassette holder completely. Press the desired operation key in a few seconds after closing the cassette holder. Press the desired operation key in more than 3 seconds after turning the power on. Insert a tape. Replace the tape. Change the tape transport direction or insert the tape inversely.
DPSS malfunctions.	<ul style="list-style-type: none"> The tape is not suitable for DPSS operation, for example the spaces between tunes are too short. 	<ul style="list-style-type: none"> Read "DPSS operation".
CCRS does not work.	<ul style="list-style-type: none"> A recordable tape is not inserted in Deck B. A disc is not placed in the CD player. The disc is dirty. 	<ul style="list-style-type: none"> Insert a recordable tape in Deck B and press the [CCRS] key. Place a disc in the CD player and press the [CCRS] key. Clean the disc, place it in the CD player, and press the [CCRS] key.
The dubbing on Deck A and Deck B ends at different timing.	<ul style="list-style-type: none"> This is due to the difference in tape length or to the characteristics of the cassette deck mechanisms. 	<ul style="list-style-type: none"> A small time difference is not regarded as a failure.
The cassette holder does not open when the EJECT key is pressed.	<ul style="list-style-type: none"> The key is pressed during recording or playback. Due to external noise, an error has occurred in the micro-computer. 	<ul style="list-style-type: none"> Press in the Stop mode. Remove the amplifier power plug from the power outlet and reinsert.
Sound is hoarse, or high frequencies are not audible.	<ul style="list-style-type: none"> The head is dirty. The tape is stretched or wrinkled. 	<ul style="list-style-type: none"> Clean the head referring to "Cleaning the head section". Replace the tape.
Sound is distorted.	<ul style="list-style-type: none"> The recording level was too high. A tape recorded with distorted sound is being played. 	<ul style="list-style-type: none"> Adjust the recording level referring to "How to record". Replace the tape.
Recording is not initiated when the REC/ARM key is pressed.	<ul style="list-style-type: none"> The protection tab on the cassette has been broken. The cassette holder is not closed completely. The recording level is set to the minimum position. The TAPE input selector is selected on the amplifier. Tape has been fully wound to a reel. 	<ul style="list-style-type: none"> Use a cassette with unbroken tab or close the hole. Close the cassette holder completely. Adjust the recording level referring to "How to record". Press the input selector key of the source to be recorded. Change the tape transport direction of Deck or insert the tape inversely.

Symptom	Cause	Remedy
Noise level is high.	<ul style="list-style-type: none"> • The head is magnetized. • External noise is induced. • The recording level was too low. • A tape recorded with Dolby NR ON is being played with Dolby NR OFF. 	<ul style="list-style-type: none"> • Demagnetize the head referring to "Cleaning the head section". • Install the system apart from other electrical appliances and TV set. • Adjust the recording level referring to "How to record". • Set the DOLBY NR switch to B or C.
Sound is vibrating.	<ul style="list-style-type: none"> • The capstans or pinch rollers are dirty. • Tape is irregularly wound. 	<ul style="list-style-type: none"> • Clean the head referring to "Cleaning the head section". • Wind the tape regularly by fast forwarding, rewinding or playing it fully from one reel to another.
Playback or recording starts immediately when the power is switched ON.	<ul style="list-style-type: none"> • The TIMER switch is set to PLAY or REC. 	<ul style="list-style-type: none"> • Set the TIMER switch to OFF unless timer playback or timer recording is required.

Notes:

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 against contact cleaners containing oil, for they may deform the plastic components.

For the U.S.A.

FCC WARNING:

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

NOTE:

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

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

For CANADA

DOC REGULATION

"This digital apparatus does not exceed the CLASS B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications."

Specifications

Track System	4 track, 2 channel stereo
Recording System	AC bias (Frequency: 105 kHz)
Heads	A DECK Playback head 1 B DECK Playback/recording heads ... 1 Erasing head 1
Motors	A DECK DC motor × 1 B DECK DC motor × 1
Wow and Flutter	±0.15 % (IEC) ±0.28 % (DIN) 0.08 % (W.RMS)
Fast Winding Time	Approx. 96 seconds (C-60 tape)
Frequency Response	
Normal Tape	30 Hz to 17,000 Hz, ±3 dB
CrO ₂ Tape	30 Hz to 18,000 Hz, ±3 dB
Signal to Noise Ratio	
Dolby NR OFF	56 dB (IEC, 250 nWb/m, Chrome tape)
Dolby NR OFF	58 dB
Dolby B NR ON	67 dB
Dolby C NR ON	75 dB (3rd, H.D., 3 %, Chrome tape)
Harmonic Distortion	Less than 1.0 % (at 315 Hz, 3rd H.D., 250 nWb/m Chrome tape)
Input sensitivity/Impedance	
LINE IN	122.8 mV/47 kΩ
Output Level/Impedance	
LINE OUT	775 mV/1.0 kΩ
Headphones	0.5 mW/32 Ω (KX-W4060 only)

[General]

Power Consumption	20 W
Dimensions	W: 440 mm (17-5/16") H: 137 mm (5-3/8") D: 269 mm (10-9/16")
Weight (Net)	4.2 kg (9.3 lb)

Note:

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

Note:

The unit's power supply is secondarily connected. Note following.
The unit is not completely disconnected from the mains as long as the power cord is connected to a wall outlet.

Observera:

Apparatens strömförsörjning kopplas från sekundärt. V.g. ge akt på följande.
Apparaten frånkopplas inte helt och hållet från strömnätet medan apparatens nätsladd är ansluten till växelströmsuttaget.

Huom:

Virta yksikköön on kytketty pois sekundaaripuolelta. Huomioi seuraava.
Tämä yksikkö ei ole kokonaan kytetty pois pää virranjakajasta kun pää katkaisin on liitettyä virtatiiriin.

Bemærk:

Strømmen til apparatet afbrydes på den sekundære side. Vær opmærksom på følgende.
Denne enhed er ikke fuldstændig koblet fra lysnettet så længe stikket er tilsluttet stikkontakten.

Anmerknig:

Strømmen til apparatet er slått av på sekundærsiden. Vær oppmerksom på det følgende.
Dette apparatet koples ikke fullstendig fra nettet så lenge stpselet står i en stikkontakt, selv om strømbryteren settes i av-stilling.

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