

KENWOOD

STAGE 3

CASSETTE TAPE DECK

X-SE7

X-SE9

INSTRUCTION MANUAL

KENWOOD CORPORATION

The X-SE9 is not available in some areas.

Before applying power

Caution: Read this page carefully to ensure safe operation.

Caution: Read the pages marked 1, 2, 3 carefully to ensure safe operation. Before applying power

Units are designed for operation as follows.

Europe and U.K. AC 230 V only
U.S.A and Canada AC 120 V only

For the United Kingdom

Factory fitted moulded mains plug

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

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

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

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.

Special feature

Convenient DPSS

The DPSS (Direct Program Search System) allows you to play a cassette tape with a variety of playback functions like a CD.

- Playing tunes by skipping some.
- Playing a single tune repeatedly.
- Rewinding a tape and playing from the beginning.
- Playing a tape by skipping blanks between tunes.

By combining this unit with High grade Micro Component system products, other convenient features including the CD edit recording, easy operation function and timer playback are also available. For details, read the system instruction manual provided with the receiver (R SE7/R SE9) unit.

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Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost. Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage. We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

Accessories

Audio cord (2)



System control cord (1)



Safety precautions

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



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



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 UNSHIELDED "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.

IMPORTANT SAFEGUARDS

Please read all of the safety and operating instructions before operating this appliance. Adhere to all warnings on the appliance and in the instruction manual. Follow all the safety and operating instructions. These safety and operating instructions should be retained for future reference.

1. Power sources - The appliance should be connected to a power supply only of the type described in the instruction manual or as marked on the appliance. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For appliances intended to operate from battery power, or other sources, refer to the instruction manual.

2. Power-cord protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

3. CAUTION - Polarization - This appliance may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

4. Ventilation - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the appliance and to protect it from overheating, and these openings must not be blocked or covered. The appliance should be situated so that its location or position does not interfere with its proper ventilation. To maintain good ventilation, do not put records or a table cloth on the appliance. Place the appliance at least 10 cm away from the walls. Do not use the appliance on a bed, sofa, mattress, or similar surface that may block the ventilation openings. This appliance should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

5. Water and moisture - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

6. Temperature - The appliance may not function properly if used at extremely low, or freezing temperatures. The ideal ambient temperature is above +5°C (41°F).

7. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

8. Electric shock - Care should be taken so that objects do not fall and liquid is not spilled into the enclosure through openings. If a metal object, such as a hair pin or a needle, comes into contact with the inside of this appliance, a dangerous electric shock may result. For families with children, never permit children to put anything, especially metal, inside this appliance.

9. Enclosure removal - Never remove the enclosure. If the internal parts are touched accidentally, a serious electric shock might occur.

10. Magnetic fields - Keep the appliance away from sources of magnetic fields such as TV sets, speaker systems, radios, motorized toys or magnetized objects.

11. Cleaning - Unplug this appliance from the wall outlet before cleaning. Do not use volatile solvents such as alcohol, paint thinner, gasoline, or benzine, etc. to clean the cabinet. Use a clean dry cloth.

12. Accessories - Do not place this appliance on an unstable cart, stand, tripod, bracket, or table. The appliance may fall, cause serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the appliance. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

13. Lightning - For added protection for this appliance during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the appliance due to lightning and power line surges.

14. Abnormal smell - If an abnormal smell or smoke is detected, immediately turn the power Off and unplug the appliance from the wall outlet. Contact your dealer or nearest service centre.

15. Damage requiring service - The appliance should be serviced by qualified service personnel when:

- A. The power-supply cord or the plug has been damaged.
- B. Objects have fallen, or liquid has been spilled into the appliance.
- C. The appliance has been exposed to rain or water.
- D. The appliance does not appear to operate normally by following the instruction manual. Adjust only those controls that are covered by the instruction manual as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the appliance to its normal operation.
- E. The appliance has been dropped, or the enclosure damaged.
- F. The appliance exhibits a marked change in performance.

16. Servicing - The user should not attempt to service the appliance beyond that described in the instruction manual. All other servicing should be referred to qualified service personnel.

17. Outdoor antenna grounding - If an outside antenna is connected to the appliance, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Article R10 of the National Electrical Code - ANS/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure.

18. Power lines - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

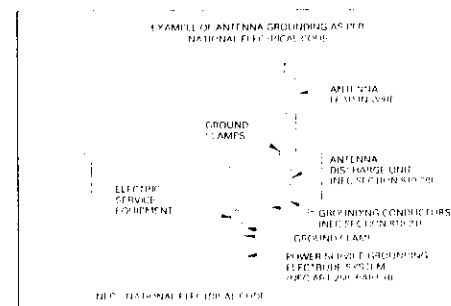
19. AC outlets - Do not connect other audio equipment with a power consumption larger than that specified to the AC outlet on the rear panel. Never connect other electrical appliances, such as an iron or toaster, to it to prevent fire or electric shock.

20. Overloading - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

21. Attachment - Do not use attachments not recommended by the appliance manufacturer as they may cause hazards.

22. Replacement parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.

23. Safety check - Upon completion of any service or repairs to this appliance, ask the service technician to perform safety checks to determine that the appliance is in proper operating condition.



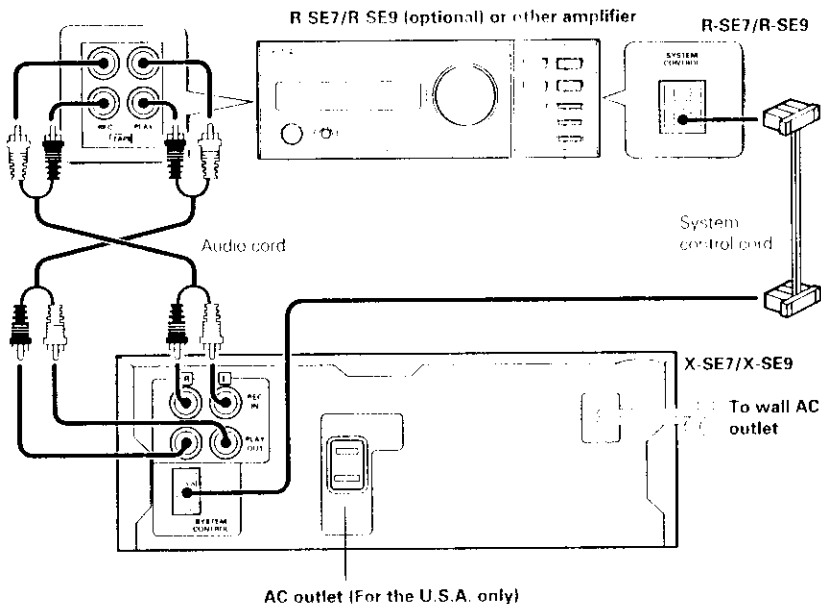
Notes

- 1. Item 3 is not required except for grounded or polarized equipment.
- 2. Item 17 and 18 are not required except for units provided with antenna terminals.
- 3. Item 17 complies with UL in the U.S.A.

Connect this unit as shown below. In case an associated system component is connected, also read the instruction manual of the component. Do not plug the power cord into the power outlet until all of the required connections have been made.

Microcomputer malfunction

If operation is not possible or an erroneous display appears, even though all connections have been made properly, reset the microcomputer referring to "In case of difficulty".



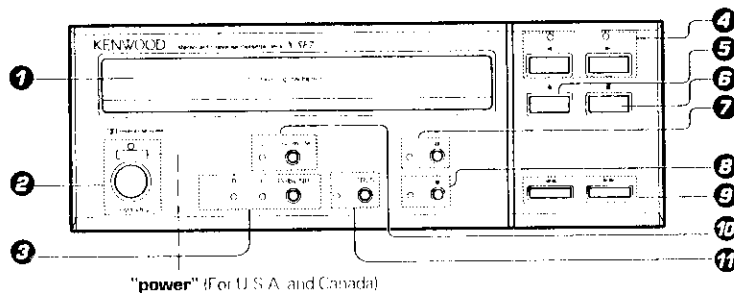
System operation

When this unit is connected with the R-SE7/R-SE9 receiver through a system control cord, the basic operations of this unit can be controlled from the remote control unit provided with the receiver. The easy operation function with which this unit operates according to the input selection made on the receiver is also available in this configuration. For details, refer to the instruction manual of the receiver.



1. Be sure to insert all connection cords securely. If their connections are imperfect, the sound may not be produced or noise may interfere.
2. Before plugging or unplugging a connection cord, be sure to unplug the power cord from the wall AC outlet. If connection cords are plugged or unplugged with the power cord left plugged in, malfunction or damage may result.

Names and functions of parts (X-SE7)



- 1 **Tape tray** — [9]
Insert the cassette tape here.
- 2 **"on/standby" key/indicator** — [9]
Press to turn the power on/off (standby). This key is not used when the unit is connected using the system connection.
- 3 **Dolby NR key/indicators** — [10]
Press to switch the Dolby Noise Reduction on/off.
- 4 **Play (▶) keys/operation indicators** — [10]
During stop and pause, the tape direction lights red. During playback and recording, the tape direction lights green. During fast forward and rewind, the tape direction flashes green.
- 5 **Open/close (▲) key** — [9]
Press to open the tape tray when loading or unloading tape.
- 6 **Stop key (■)** — [10]
- 7 **Pause (||) key/indicator** — [14]
- 8 **Record (●) key/indicator** — [14]
Press to start recording. When pressed during recording, the tape stops after leaving a non-recorded section (blank) of about 4 seconds.
- 9 **Fast forward and rewind (◀▶) keys** — [10]
- 10 **"rev. mode" key/indicator** — [9]
Press to switch the tape reverse mode (two way or one way) of the deck.
- 11 **CRLS key/indicator** — [15]
Press to set the recording level automatically according to the recorded music source.

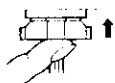
* Both X-SE7 and X-SE9 has same key arrangement and operation system.

Caution regarding placement (Except for U.S.A. and Canada)

To maintain proper ventilation, be sure to leave a space around the unit (from the largest outer dimensions, including projections) equal to, or greater than, shown below:
Left and right panels: 10 cm, Rear panel: 10 cm, Top panel: 50 cm

Connection of system control cord

Plugging the connector



Insert the plug straight into the connector until it locks.

Unplugging the connector



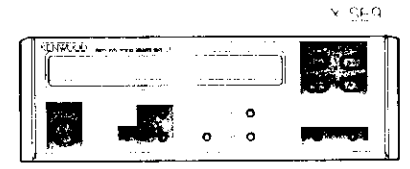
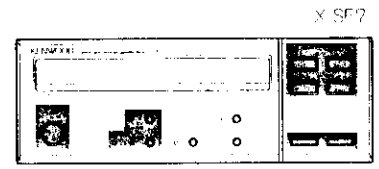
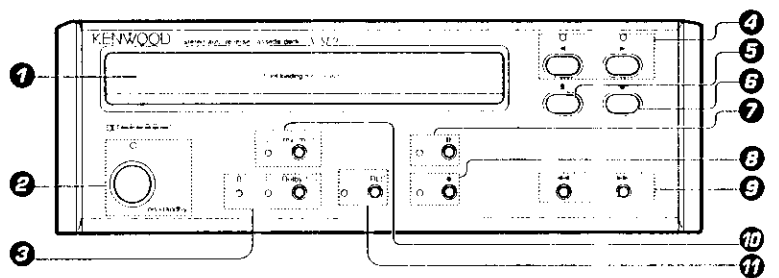
While pushing the top sides of connector in, pull it straight out.

"standby" mode of power switch ("on/standby" key)

When the power cord is plugged into an AC outlet, the "standby" indicator lights regardless of the power ON/OFF setting. This is because, even when the power is set to OFF, a small amount of power is supplied to the system to back up the memory. This status is called the standby mode of the system.

X-SE7/X-SE9

X-SE7/X-SE9



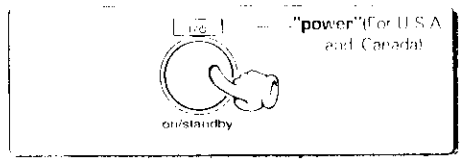
Keys or controls used in this operation.

- 1 Tape tray** - [9]
Load a cassette tape here.
- 2 "on/standby" key/indicator** - [8]
Press to turn the power on/off (standby). This key is not used when the unit is connected using the system connection.
- 3 Dolby NR key/indicators** - [10]
Press to switch the Dolby Noise Reduction on/off.
- 4 Play (◀▶) keys/operation indicators** - [10]
During stop and pause, the tape direction lights red. During playback and recording, the tape direction lights green. During fast forward and rewind, the tape direction flashes green.
- 5 Open/close (▲) key** - [9]
Press to open the tape tray when loading or unloading tape.
- 6 Stop key (■)** - [10]
- 7 Pause (||) key/indicator** - [14]
- 8 Record (●) key/indicator** - [14]
Press to start recording. When pressed during recording, the tape stops after leaving a non-recorded section (blank) of about 4 seconds.
- 9 Fast forward and rewind (◀◀▶▶) keys** - [10]
- 10 "rev. mode" key/indicator** - [9]
Press to switch the tape reverse mode (two-way or one-way) of the deck.
- 11 CRLS key/indicator** - [15]
Press to set the recording level automatically according to the recorded music source.

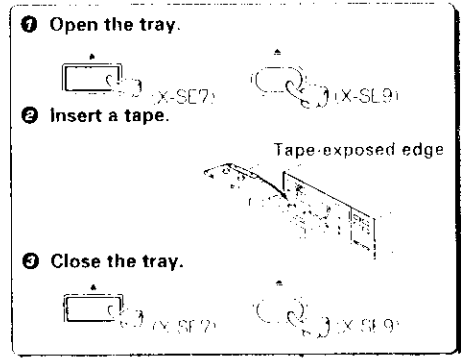
"standby" mode of power switch ("on/standby" key)
When the power cord is plugged into an AC outlet, the "standby" indicator lights regardless of the power ON/OFF setting. This is because, even when the power is set to OFF, a small amount of power is supplied to the system to back up the memory. This status is called the standby mode of the system.

Tape playback

1 Turn power on.

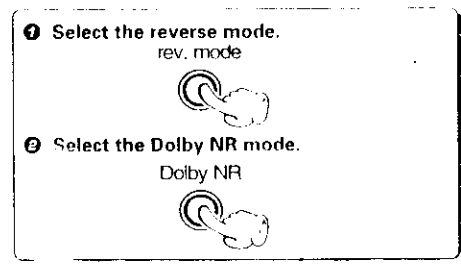


2 Load a cassette tape.



- Insert the tape correctly as shown in the illustration. Improper insertion of tape may result in malfunction.
- The type of tape, that is, Normal (Type II), High (Type III) or Metal (Type IV) is set automatically.
- Remove tape slack before loading.

3 Determine the playback modes.



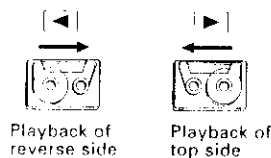
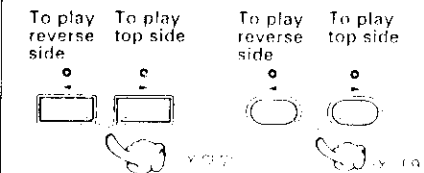
- Each press switches the modes as follows.
- "rev. mode" key
 - (1) "lit" ... Endless playback occurs.
 - (2) No indication ... Playback stops after having played a side.
 - "Dolby NR" key
 - (1) DOLBY NR "B" lit ... General NR.
 - (2) DOLBY NR "C" lit ... NR with higher performance.
 - (3) DOLBY NR "OFF" (no indication) ... Dolby NR is not used.

Continued on next page

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

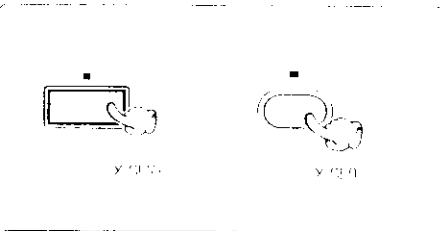
4 Start playback.

Press the ► or ◀ key.

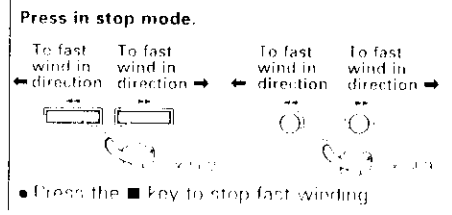


• If the tape direction is wrong, press the key of the desired direction.

To stop playback



To wind tape at high speed



Dolby Noise Reduction (NR)

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

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

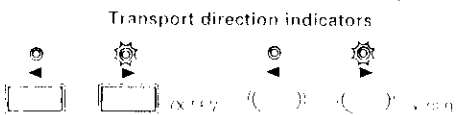
Dolby B NR: Generally used Dolby NR.
Dolby C NR: Features a higher noise reduction effect than the B type.

The use of Dolby C NR is recommended if you record tapes to be played on this unit.

Transport direction indicators

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

(To change the direction, press the play key for the opposite direction then press the ■ key.)



DPSS

The DPSS (Direct Program Search System) allows to play cassette tapes in convenient ways like CDs by detecting non-recorded sections of more than 4 seconds as "blanks between music programs".

Skip search

Plays the desired music program from the beginning by skipping programs until there. Up to 16 programs can be skipped.

During playback of top side (►)

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

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

During playback of reverse side (◀)

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

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

Dash & play (Playback of a tape by skipping non-recorded sections)

Plays music programs repeatedly by skipping non-recorded spaces of more than 10 seconds.

Press simultaneously.

- The operation changes according to the reverse mode.
 - ① "Dash & play" mode: The two tape sides are played 8 times, after which playback stops.
 - ② No indication: A tape side is played 8 times, after which playback stops.
- When the ■ key is pressed, playback stops and the dash & play is canceled.

One-program repeat (Repeated playback of a single program)

Plays a single music program repeatedly up to 16 times.

Press during playback.

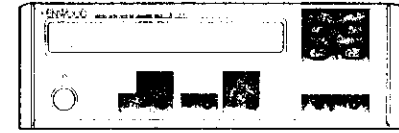
- ① During playback of reverse side (◀)
- ② During playback of top side (►)

- The program being played will be repeated 16 times, after which normal playback resumes.
- When the ■ key is pressed, playback stops and the one-program repeat is canceled.

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

X SF7

X SF9

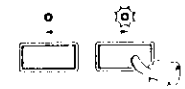


Keys or controls used in this operation

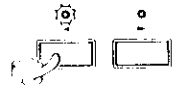
Rewind playback

Rewinds tape to the beginning and restarts playback from there.

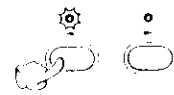
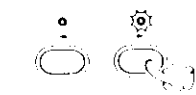
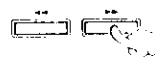
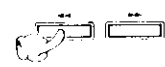
During playback of top side (▶)
Press simultaneously.



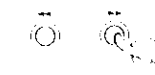
During playback of reverse side (◀)
Press simultaneously.



(X SF7)



(X SF9)



- The DPSS may not function normally with the following kinds of tape.
- Tapes containing several no sound intervals of more than 4 seconds, such as conversation and talk tapes
 - Tapes containing pianissimo sections, such as classical music tape.
 - Tapes in which large noise is recorded in blanks between programs
 - Tapes containing blanks between programs that are shorter than 4 seconds.
 - Tapes recorded at low level.
 - Tapes recorded by cross-fade recording (in which the beginning of next program is overlapped on the end of previous program).

Recording

1 Load a tape in deck.

- 1 Open the tray.
- 2 Insert a tape.

Tape-exposed edge
- 3 Close the tray.

Note that this cassette deck cannot record onto Metal tapes.

- The type of tape, that is, Normal (Type I) or High (Type II) is set automatically.
- Remove tape slack before loading

2 Select the tape transport direction.

Check the tape transport direction.

If the tape direction is wrong, press the key of the desired direction then press the stop key.

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

3 Select the recording mode.

- 1 Select the reverse mode.
rev. mode
- 2 Select the Dolby NR mode.
Dolby NR

Each press of the key switches the modes as follows.

"rev mode" key

(1) "lit" The two tape sides are recorded, after which recording stops

(2) No indication ... A tape side is recorded, after which recording stops

Each press of the key switches the modes as follows

"Dolby NR" key

(1) DOLBY NR "B" B type (general type)

(2) DOLBY NR "C" C type (with higher performance)

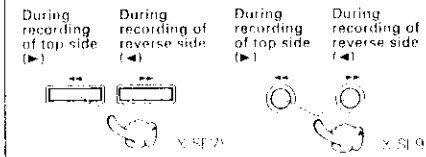
(3) DOLBY NR "OFF" (no indication). Dolby NR is not used.

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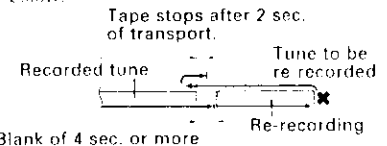
To restart recording from the beginning

The tape returns to the position where recording started.

Rewind the tape during recording.



- If there is a non-recorded space of more than 4 seconds before the recording start position, recording is aborted and tape is rewound as shown below.



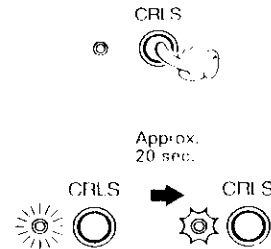
- If there is no recorded tune before, the tape will be rewound then stopped.

Automatic recording level adjustment (CRLS)

The standard recording level has been preset with this unit, but the CRLS function allows to optimize the recording level automatically according to each music source.

- 1 Play the contents to be recorded (or receive the radio station to be recorded).

- 2 Press the CRLS key.



If the key has never been pressed

... The sound is recorded with the basic level set with the unit.

If the key is pressed

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

To return to the basic level

... Hold the key depressed until the indicator goes off (for approx. 3 seconds).

- The recording level setting completes in approx. 20 seconds, after which the deck enters the record pause mode.
- If recording is started during the setting (while the CRLS indicator is blinking), distorted sound may be recorded.
- If a non-recorded space of more than 3 seconds is detected after the CRLS key is pressed, the recording level setting is aborted.

Point in CD or MD recording

By setting the cassette deck in record pause mode when recording a CD or MD, it is possible to start the music source playback and cassette deck recording simultaneously (synchronous recording).

- 1 Put the CD player or MD recorder in pause mode.
 - 2 Select the track to be recorded with the skip key ◀◀ or ▶▶ (the player or recorder pauses again at the beginning of the selected track.)
 - 3 Put the cassette deck in record pause mode.
 - 4 Start playing the CD or MD (the synchronous recording starts).
- Recording stops when the stop key of the CD player or MD recorder is pressed.

Dolby HX Pro

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

4 Select the source to be recorded.

Set the input of the connected amplifier (receiver) to the playback source to be recorded (other position than TAPE).

5 Start recording.

- 1 Play the contents to be recorded (or receive the station to be recorded).

- 2 Start recording.



- The recording level can be adjusted automatically by using the CRLS function → 15
- Recording starts.
- Recording stops automatically when the tape side(s) to be recorded have been recorded.

To pause recording temporarily



- Press the ◻ key to restart recording.

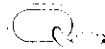
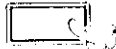
To create a non-recorded section of about 4 seconds

- 1 Put the unit in stop mode.
- 2 Press the record key twice.



- After creating a non-recorded section of about 4 seconds, the unit enters record pause mode.

To end recording in the middle



To end recording in the middle

A non-recorded section of about 4 seconds is created from the moment recording is interrupted.



- The unit enters record pause mode in about 4 seconds.

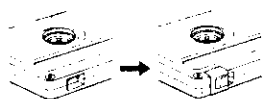
Handling of tapes**Notes on cassette tape**

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.



For A side

For B side



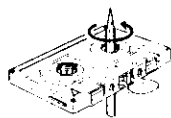
To re-record Apply tape only to the position where the tab has been removed.

To store cassette tapes

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

**When there is slack in the tape**

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

**2. Endless tapes**

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

1. Longer tape than 110 minutes cassette tape

Since longer tape than 110 minutes 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.

Reference**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.

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"DOLBY" and the double-D symbol  and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

WARNING NOTICE:

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

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.

For the cleaning, use a cleaning cassette available in audio stores.

For details, read the instruction manual of your cleaning tape.

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).

Maintenance of the set

When the front panel or case becomes dirty, wipe with a soft, dry cloth. Do not use thinner, benzene, alcohol, etc., for these substances may cause discoloration.

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.

X9774710-1

Operation to reset

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

Unplug the power cord from the power outlet and, while holding the stop key depressed, plug the power cord again.

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

Symptom	Cause	Remedy
Sound cannot be produced by pressing the play key or no operation occurs even when an operation key is pressed.	<ul style="list-style-type: none"> ● The connections of cords are wrong ● The head is dirty ● The tape is wound too tight due to irregular winding ● A nonrecorded tape is played. 	<ul style="list-style-type: none"> ● Connect properly referring to "Connections" ● Clean the head referring to "Cleaning the head section" -[16] ● Try another tape ● Play a recorded tape.
No operation occurs even when an operation key is pressed.	<ul style="list-style-type: none"> ● The operation key is pressed in less than 4 seconds after turning the power ON ● A tape is not inserted in the unit. ● The tape is wound too tight due to irregular winding ● The tape is fully wound to one of the reels 	<ul style="list-style-type: none"> ● Press operation keys after waiting for more than 4 seconds ● Insert a tape. ● Try another tape. ● Change the tape transport direction or reverse the tape insertion orientation.
The DPSS malfunctions.	<ul style="list-style-type: none"> ● The tape used is not suitable for DPSS, for example the spaces between tunes may be too short 	<ul style="list-style-type: none"> ● Refer to "DPSS" -[11]
The tray will not open when the open/close key is pressed.	<ul style="list-style-type: none"> ● The key is pressed during recording ● The microcomputer is malfunctioning due to external noise 	<ul style="list-style-type: none"> ● Press in stop mode ● Unplug the power cord and plug it again
Sound is husky or high frequencies are not reproduced.	<ul style="list-style-type: none"> ● The head is dirty. ● The tape is stretched or shrunk 	<ul style="list-style-type: none"> ● Clean the head referring to "Cleaning the head section". -[16] ● Try another tape
Sound is distorted.	<ul style="list-style-type: none"> ● The recording level has not been set with the CRLS key ● The tape being played was recorded with distorted sound 	<ul style="list-style-type: none"> ● Refer to "Recording" -[13] ● Try another tape

Symptom	Cause	Remedy
Noise is noticeable.	<ul style="list-style-type: none"> ● The tape head is magnetized ● External noise is induced ● A tape recorded with Dolby NR ON is played with Dolby NR OFF. 	<ul style="list-style-type: none"> ● Demagnetize the head referring to "Cleaning the head section" -[16] ● Install the system at a distance from other electric appliances and TV ● Set the Dolby NR to B or C. -[10]
Sound vibrates.	<ul style="list-style-type: none"> ● The capstans or pinch rollers are dirty ● The tape is wound irregularly. 	<ul style="list-style-type: none"> ● Clean the head referring to "Cleaning the head section" -[16] ● 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.	<ul style="list-style-type: none"> ● The recording protect tab of the cassette has been broken. ● The amplifier's input selector is set to TAPE. ● The tape is fully wound to one of the reels 	<ul style="list-style-type: none"> ● Use a cassette with an unbroken recording protect tab or block the hole. -[16] ● Set the amplifier's input selector to the source to be recorded. ● Change the tape transport direction or reverse the tape insertion orientation



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 longer tape than 110 minutes tapes, for the tape is too thin and gets easily tangled.

X-SE7

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

Heads

Playback / recording head 1
Erasing head 1
Motors 1
Wow and flutter 0.1 % (W.R.M.S.)
Fast winding time Approx. 110 seconds
(C-60 tape)

Frequency response

TYPE I tape 40 Hz to 18,000 Hz, ± 3 dB
TYPE II tape 40 Hz to 19,000 Hz, ± 3 dB

Signal to noise ratio

Dolby C NR ON 73 dB (CrO₂ tape)
Dolby B NR ON 67 dB (CrO₂ tape)
Dolby NR OFF 60 dB (CrO₂ tape)

Input sensitivity / Impedance .. 77.5 mV/47 k Ω
Output level / Impedance 775 mV/10 k Ω

[General]

Power consumption 14 W
(For the U.S.A. only)
AC outlet (UNSWITCHED) 1 (max 100W)
Dimensions W : 200 mm
H : 77 mm
D : 249 mm
Weight (net) 2.2 kg

X-SE9

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

Heads

Playback / recording head 1
Erasing head 1
Motors 1
Wow and flutter 0.1 % (W.R.M.S.)
Fast winding time Approx. 110 seconds
(C-60 tape)

Frequency response

TYPE I tape 40 Hz to 18,000 Hz, ± 3 dB
TYPE II tape 40 Hz to 19,000 Hz, ± 3 dB

Signal to noise ratio

Dolby C NR ON 73 dB (CrO₂ tape)
Dolby B NR ON 67 dB (CrO₂ tape)
Dolby NR OFF 60 dB (CrO₂ tape)

Input sensitivity / Impedance .. 77.5 mV/47 k Ω
Output level / Impedance 775 mV/10 k Ω

[General]

Power consumption 14 W
Dimensions W : 213 mm
H : 77 mm
D : 249 mm
Weight (net) 2.3 kg



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

② Sufficient performance may not be possible at very low temperatures (0°C or less).

For Canada**IC REGULATION**

NOTICE: This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

REMARQUE: Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

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 _____