





KX-E300

Cassette Deck



OWNER'S MANUAL

SAFETY INSTRUCTIONS

	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.		

• Explanation of Graphical Symbols




The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert you 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 you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

- 1 Read Instructions – All the safety and operating instructions should be read before the product is operated.
- 2 Retain Instructions – The safety and operating instructions should be retained for future reference.
- 3 Heed Warnings – All warnings on the product and in the operating instructions should be adhered to.
- 4 Follow Instructions – All operating and use instructions should be followed.
- 5 Cleaning – Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 6 Attachments – Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- 7 Water and Moisture – Do not use this product near water – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- 8 Accessories – Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer’s instructions, and should use a mounting accessory recommended by the manufacturer.
- 9 A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn. 
- 10 Ventilation – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product 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.
- 11 Power Sources – This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- 12 Grounding or Polarization – This product 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.
- 13 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 product.
- 14 Lightning – For added protection for this product 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 product due to lightning and power-line surges.
- 15 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.
- 16 Overloading – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- 17 Object and Liquid Entry – Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- 18 Servicing – Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 19 Damage Requiring Service – Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a) When the power-supply cord or plug is damaged,
 - b) If liquid has been spilled, or objects have fallen into the product,
 - c) If the product has been exposed to rain or water,

- d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,
 - e) If the product has been dropped or damaged in any way, and
 - f) When the product exhibits a distinct change in performance - this indicates a need for service.
- 20 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 part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 21 Safety Check – Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- 22 Wall or Ceiling Mounting – The unit should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 23 Heat – The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

FCC INFORMATION (for US customers)

1. IMPORTANT NOTICE : DO NOT MODIFY THIS UNIT!

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

- 2. IMPORTANT :** When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product **MUST** be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

- 3. NOTE :** This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class “B” digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices.

Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit “OFF” and “ON”, please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Electronics Corp., U.S.A. 6660 Orangethorpe Ave, Buena Park, CA 90620.

The above statements apply **ONLY** to those products distributed by Yamaha Corporation of America or its subsidiaries.

CAUTION: READ THIS BEFORE OPERATING THIS UNIT

- 1 To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- 2 Install this unit in a well ventilated, cool, dry, clean place away from direct sunlight, heat sources, vibration, dust, moisture or cold. In a cabinet, allow about 2.5 cm (1 inch) of free space all around this unit for adequate ventilation.
- 3 Locate this unit away from other electrical appliances, motors, or transformers to avoid humming sounds.
- 4 Do not expose this unit to sudden temperature changes from cold to hot, nor locate this unit in an environment with high humidity (i.e., a room with a humidifier) to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, and/or personal injury.
- 5 Avoid installing this unit in a location where foreign objects may fall onto this unit or where this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place:
 - Other components, as they may cause damage and/or discoloration on the surface of this unit.
 - Burning objects (i.e., candles), as they may cause fire, damage to this unit, and/or personal injury.
 - Containers with liquid in them, as they may fall, spilling the liquid and causing an electrical shock to the user and/or damage to this unit.
- 6 Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.
- 7 Do not plug in this unit to a wall outlet until all connections are complete.
- 8 Do not operate this unit upside-down. It may overheat, possibly causing damage.
- 9 Do not use excessive force on switches, knobs and/or cords.
- 10 When disconnecting the power cord from the wall outlet, grasp the plug; do not pull the cord.
- 11 Do not clean this unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.
- 12 Use only the voltage specified on this unit. Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, and/or personal injury. YAMAHA will not be held responsible for any damage resulting from use of this unit with a voltage other than as specified.
- 13 To prevent damage by lightning, disconnect the power cord from the wall outlet during an electrical storm.
- 14 Do not attempt to modify or fix this unit. Contact qualified YAMAHA service personnel when any service is needed. The cabinet should never be opened for any reason.
- 15 When not planning to use this unit for long periods of time (i.e., vacation), disconnect the AC power plug from the wall outlet.
- 16 Be sure to read the “Troubleshooting” section on common operating errors before concluding that this unit is faulty.
- 17 Before moving this unit, press STANDBY/ON to set the unit in standby mode, then disconnect the AC power plug from the wall outlet.

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

The unit is not disconnected from the AC power source as long as it is connected to the wall outlet, even if this unit itself is turned off. This state is called the standby mode. In this state, this unit is designed to consume a very small quantity of power.

IMPORTANT

Please record the serial number of this unit in the space below.

MODEL:

Serial No.:

The serial number is located on the rear of the unit.

Retain this Owner’s Manual in a safe place for future reference.

SPECIAL INSTRUCTIONS FOR U.K. MODEL

IMPORTANT:

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

Blue: NEUTRAL

Brown: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED. Making sure that neither core is connected to the earth terminal of the three pin plug.

For U.K. customers

If the socket outlets in the home are not suitable for the plug supplied with this appliance, it should be cut off and an appropriate 3 pin plug fitted. For details, refer to the instructions described above.

Note: The plug severed from the mains lead must be destroyed, as a plug with bared flexible cord is hazardous if engaged in a live socket outlet.

We Want You Listening For A Lifetime

YAMAHA and the Electronic Industries Association’s Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion – and, most importantly, without affecting your sensitive hearing.


III CAUTION

Since hearing damage from loud sounds is often undetectable until it is too late, YAMAHA and the Electronic Industries Association’s Consumer Electronics Group recommend you to avoid prolonged exposure from excessive volume levels.



FEATURES

- High performance auto-reverse tape deck
- Dolby B/C type noise reduction
- Synchronized recording/timer recording by system connection
- REC/PLAY level meters with peak hold function

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

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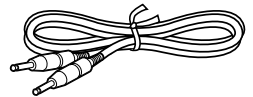
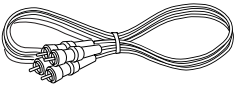
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SUPPLIED ACCESSORIES

Check that the following items are included.

- Audio pin cable x 2
- System control cable x 1



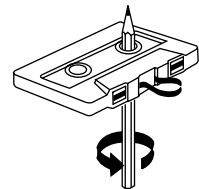
NOTES ABOUT CASSETTE TAPES

Cassette tapes

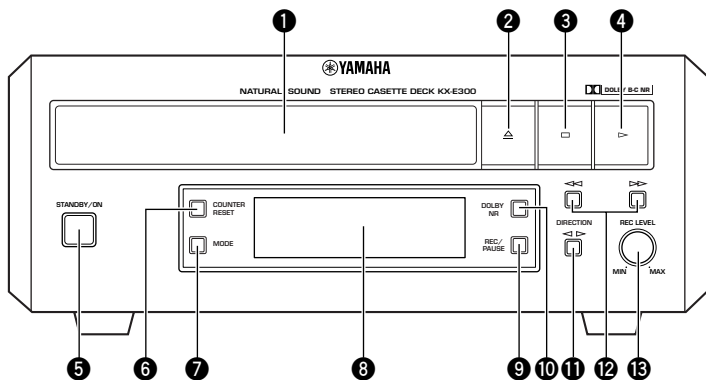
- YAMAHA does not recommend the use of cassettes over 120 minutes in length since the extreme thinness of the tape makes them susceptible to mechanical and recording problems.
- Since this unit automatically detects the tape type, you can use any type of tape.

Taking up slack in the tape

Before loading a tape on the tray, tighten the slack portion of tape with a pen or pencil.

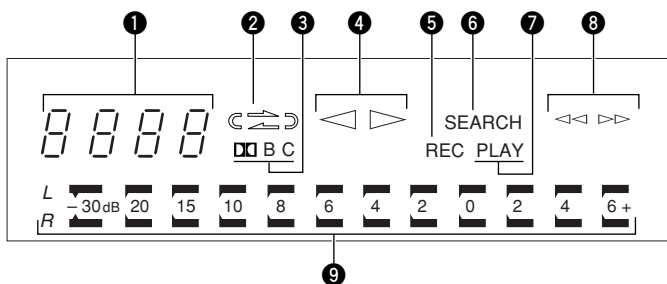


Front panel



- 1 Tape tray (P.5)
- 2 \triangle (Open / Close) (P.5)
- 3 \square (Stop) (P.5)
- 4 \triangleright (Play) (P.5)
- 5 **STANDBY/ON** (P.5)
- 6 **COUNTER RESET** (P.6)
- 7 **MODE** (P.5)
- 8 Multi-information display (P.2)
- 9 **REC/PAUSE** (P.6)
- 10 **DOLBY NR** (P.1)
- 11 **DIRECTION** $\triangleleft \triangleright$ (P.5)
- 12 $\triangleleft \triangleleft / \triangleright \triangleright$ (Rewind, Music search backward/Fast-forward, Music search forward) (P.5)
- 13 **REC LEVEL** (P.6)

Display



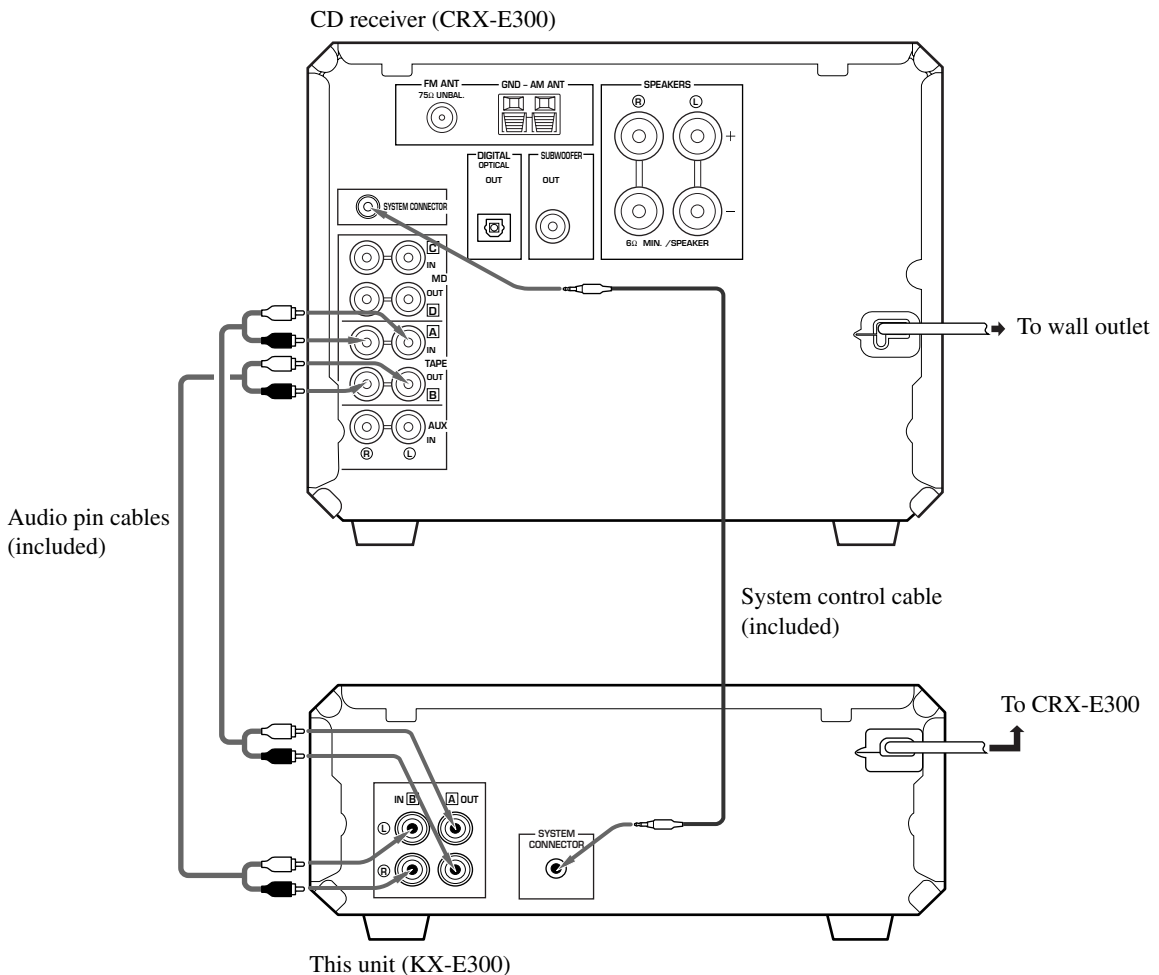
- 1 Counter display
- 2 Reverse mode indicator
- 3 Dolby Noise Reduction indicator
- 4 Direction indicator
- 5 **REC** indicator
- 6 Music **SEARCH** indicator
- 7 **PLAY** indicator
- 8 Rewind/Fast-forward indicator
- 9 **REC/PLAY** level indicator

CONNECTIONS

Do not plug in this unit (or other components) until all connections are complete.

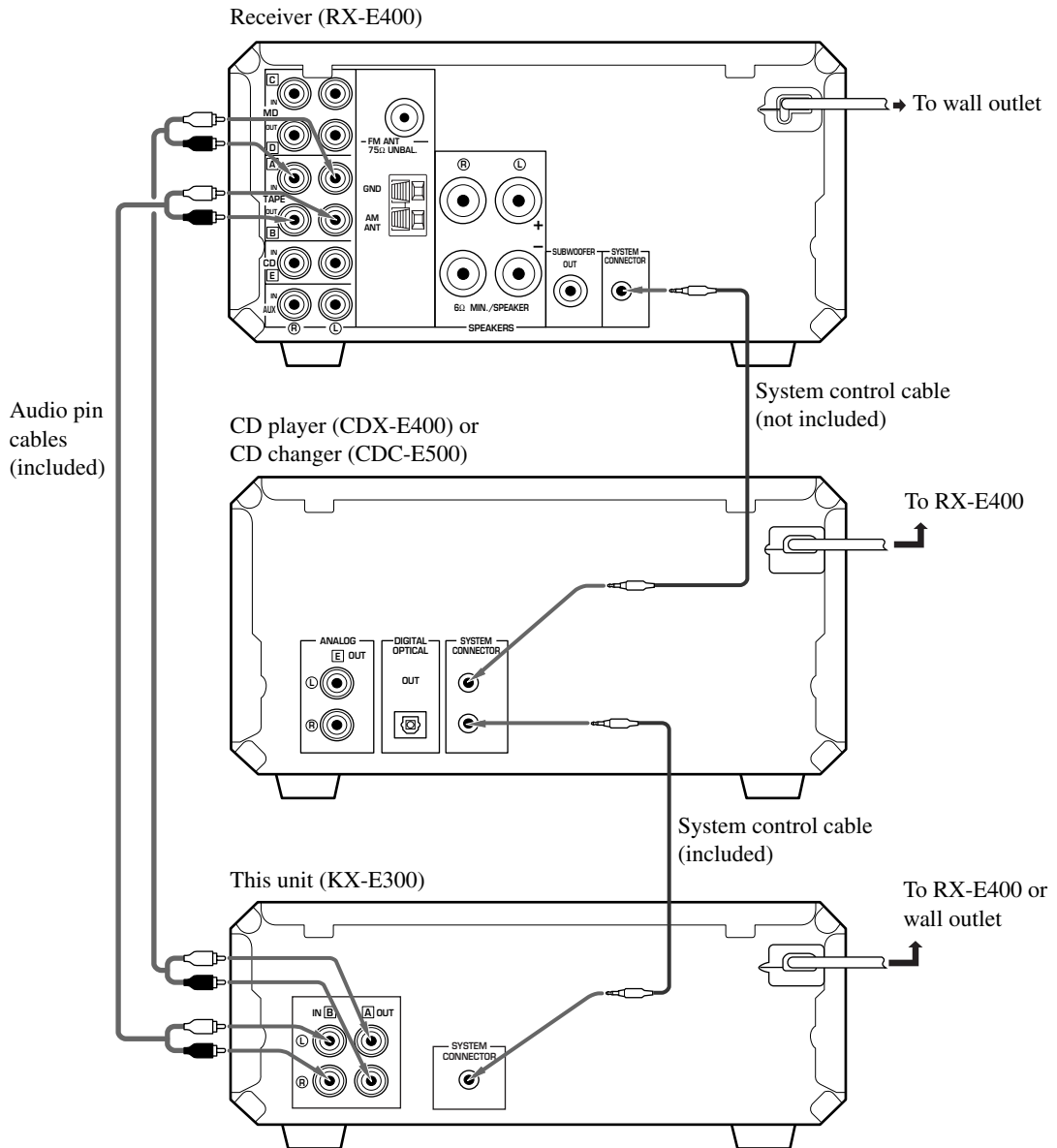
- Connections should be made to the correct input/output jacks on the other component.
- Also refer to the owner's manual supplied with the component you are connecting.
- If the placement of this unit causes noise in other equipment, such as a tuner, move them farther apart.
- The connection using the SYSTEM CONNECTOR jack allows you to control this unit as well as the connected components of YAMAHA Piano Craft series. Make connections between the Piano Craft series components using the system control cable.

Connecting CRX-E300



- The analog OUT jacks on this unit are marked **A** and the analog IN jacks are marked **B**. When connecting this unit to CRX-E300 whose jacks are marked **A**, **B**, **C** and **D**, connect this unit's analog OUT jacks to the input jacks marked **A** and connect this unit's analog IN jacks to the output jacks marked **B** on the rear panel of CRX-E300.
- The SYSTEM CONNECTOR jack should be connected to the SYSTEM CONNECTOR jack on CRX-E300.
- To reduce the standby power consumption, connect the AC power cord of this unit to the switched AC outlet on CRX-E300 (except for the U.K. model).
- If you add MDX-E300 (not available in some areas) to your system, you can connect the system connector jack to the SYSTEM CONNECTOR jack on MDX-E300. Also, you can connect the power cord to the AC OUTLET on MDX-E300 (except for the U.K. model).

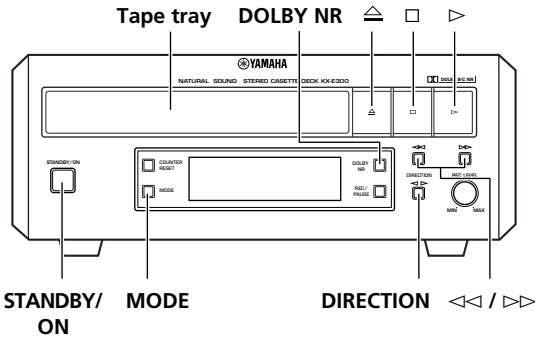
Connecting RX-E400 and CDX-E400 (CDC-E500)



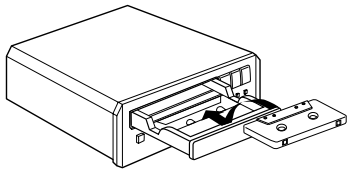
- The analog OUT jacks on this unit are marked **A** and the analog IN jacks are marked **B**. When connecting this unit to RX-E400 whose jacks are marked **A**, **B**, **C**, **D** and **E**, connect this unit's analog OUT jacks to the input jacks marked **A** and connect this unit's analog IN jacks to the output jacks marked **B** on the rear panel of RX-E400.
- The SYSTEM CONNECTOR jack should be connected to the SYSTEM CONNECTOR jack on CDX-E400 or CDC-E500.
- To reduce the standby power consumption, connect the AC power cord of this unit to the switched AC outlet on RX-E400 (except for the U.K. model).
- If you add MDX-E300 (not available in some areas) to your system, you can connect the system connector jack to the SYSTEM CONNECTOR jack on MDX-E300. Also, you can connect the power cord to the AC OUTLET on MDX-E300 (except for the U.K. model).

Preparation

- Press **STANDBY/ON** to turn this unit on.
- Select “TAPE” as the input source of the connected receiver.

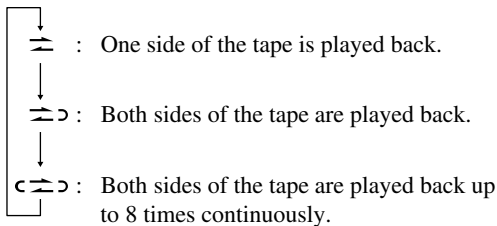


- 1 Press \triangle to open the tape tray and place a recorded tape on the tray.



- 2 Press \triangle to close the tape tray.

- 3 Press **MODE** to select the reverse mode.
 - Each time you press **MODE**, the reverse mode changes and the corresponding mode indicator lights up as follows:



- 4 Press **DIRECTION** \triangle \triangleright to change the direction of the tape.

- If you place the tape on the tray with side A upward, \triangleright indicates playing side A and \triangleleft indicates playing side B.

- 5 Select the noise reduction type using **DOLBY NR**.
 - Select the same noise reduction type as the one used on the recording.
 - Each time you press **DOLBY NR**, the noise reduction type changes in the following order: DOLBY B NR → DOLBY C NR → DOLBY NR OFF.

- 6 Press \triangleright to start play.
 - The PLAY indicator lights up during playback.

To stop play

Press \square .

To eject a tape

Press \triangle to open the tape tray and remove the tape from the tray.

To adjust the volume level

Use the volume control of the receiver.

To fast-forward or rewind the tape

Press $\triangleright\triangleright$ or $\triangleleft\triangleleft$ to fast-forward or rewind the tape during stop mode.

To search for the beginning of a selection

Press $\triangleright\triangleright$ or $\triangleleft\triangleleft$ to search for the beginning of the next or current selection during play mode.

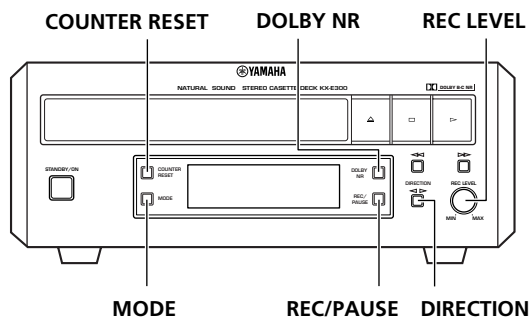
While searching, the SEARCH indicator and $\triangleleft\triangleleft$ or $\triangleright\triangleright$ indicator light up in the display.

Notes

- The blank interval between selections must be at least 4 seconds long.
- The search function may not operate properly with tapes recorded at a low recording level, tracks which begin/finish with a fade or which have excessive noise.
- When you play the beginning part or end part of the tape, the search function may not work correctly.

Preparation

- Press **STANDBY/ON** to turn this unit on.



- Press **DIRECTION** $\triangleleft \triangleright$ to change the direction of the tape.

 - If you place the tape on the tray with side A upward, \triangleright indicates recording side A and \triangleleft indicates recording side B.
 - If you want to record on both sides of the tape, select the \triangleright direction.
- Press **REC/PAUSE**.

 - This unit turns into standby mode for recording and the REC indicator flashes.
- Press **MODE** to select the reverse mode.

 - Each time you press **MODE**, the reverse mode changes and the corresponding mode indicator lights up as follows:
 - \rightleftharpoons : One side of the tape is recorded.
 - $\rightleftharpoons \triangleright$: Both sides of the tape are recorded.
- Adjust the recording level by turning **REC LEVEL**.

 - For the best results, play the loudest passage of the source to be recorded and watch the recording level meter in the display. Adjust **REC LEVEL** so that the highest peak causes the +2 dB level indicators to flicker.
- Select the noise reduction type using **DOLBY NR**.

 - The Dolby B-type noise reduction provides approximately 8 dB improvement in S/N ratio and C-type adds additional improvement over the B-type. The noise reduction is applied to both recording and playback; be sure that the same noise reduction is used on recording and playback.
- Press \triangleright .

 - The REC and PLAY indicators light up during recording.
- Start playing the source component.

 - Synchronized start is possible if you made connections using the system control cable. Press \triangleright / \square on the source component after step 5. Recording begins automatically. To use timer recording, please refer to the instructions supplied with CRX-E300 or CRX-E400.

To pause recording

Press **REC/PAUSE**.

To resume recording, press \triangleright .

To stop recording

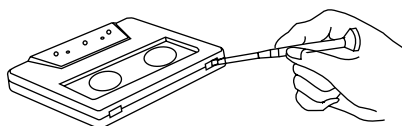
Press \square .

The tape counter

The tape counter is useful for searching and locating a certain point on the tape. Pressing **COUNTER RESET** will reset the tape counter to "0000".

Protecting your recordings

Tapes have removable tabs, which prevent accidental recording or erasing from taking place. Removing the tab on the top left protects the side facing you from erasure. Cover the tab holes with adhesive tape to erase or record again.



Note

Please check the copyright laws in your country to record from records, compact discs, radio, etc. Recording of copyright material may infringe copyright laws.

TROUBLESHOOTING

If this unit fails to operate normally, check the following points to determine whether the fault can be corrected by the simple measures suggested. If it cannot be corrected, or if the fault is not listed in the symptom column, disconnect the power cord and contact your authorized YAMAHA dealer or service center for help. When receiving service, other Piano Craft components you are using together with this unit may be needed.

Symptom	Cause	Remedy
This unit does not work normally.	There is an influence of strong external noise (lightning, excessive static electricity, etc.) or a misoperation was performed while using the unit.	Turn this unit to the Standby mode and disconnect the AC power cord from the wall outlet. After about 30 seconds have passed, connect the power and try again.
Tape does not move during playback or recording.	Slack tape wrapped around pinch roller.	Take up slack with a pencil before using.
Cannot record.	Erasure prevention tab is broken off.	Replace tape or cover erasure prevention hole with adhesive tape.
	Head is dirty.	Clean heads.
Sound is distorted or fades out.	Head is dirty.	Clean heads.
	Tape is worn.	Replace the tape.
Poor sound quality	The DOLBY NR type is not correct.	Select an appropriate DOLBY NR type. The same noise reduction type should be used both on recording and playback.
	Head is dirty.	Clean heads.
Stereo balance is poor.	Head is dirty.	Clean heads.
Excessive noise	Head has become magnetized.	Demagnetize heads with head eraser.
	Tape is worn.	Replace the tape.
Tape travel stops in the middle of playback or recording.	Slack tape coming out of cassette shell.	Take up slack by turning reels with a pencil.
	Tape is worn.	Replace the tape.
The synchronized recording function does not work.	System control cable is not connected.	Connect this unit and the source component with the system control cable firmly.
Cannot search for the beginning of desired track of the tape	Silent gaps between tracks are too short.	The function of searching for the beginning of a desired track does not operate unless the silent gaps between tracks are at least four seconds long.
	Excessively soft passages in the middle of selections.	
	Conversation, or noise, etc. is recorded.	

Maintenance

Dirty heads, capstans, and pinch rollers can cause poor sound and tape jams. Clean these parts with a commercially available cleaning tape.

SPECIFICATIONS

Type	Auto reverse stereo cassette deck
Frequency response (-20 dB)	
Type 1 (Normal)	30 to 15,000 Hz
Type 2 (High)	30 to 16,000 Hz
Type 4 (Metal)	30 to 18,000 Hz
Wow and flutter	0.09%, W.RMS
Signal-to-Noise ratio	58 dB (Dolby NR OFF)
	66 dB (Dolby B NR ON)
	74 dB (Dolby C NR ON)
Harmonic Distortion	1.0%

General

Power supply	
[U.S.A. and Canada models]	AC 120 V, 60 Hz
[U.K. and Europe models]	AC 230 V, 50 Hz
Power consumption	12 W
Power consumption (standby mode)	3 W
Dimensions (W x H x D)	217 x 88 x 291 mm
Weight	3.0 kg

Specifications are subject to change without notice.



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