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KENWOOD

AUTOMATIC RETURN TURNTABLE

KD-291R

INSTRUCTION MANUAL

KENWOOD CORPORATION

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.

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

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Before applying power

For the U.S.A. and Canada

Important!

Units shipped to the U.S.A. and Canada are designed for operation on 120 volts AC only.

Safety precaution for a Polarized AC plug

However, some products may be supplied with a non-polarized plug.

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

For the United Kingdom

Important!

Units shipped to the U.K. are designed for operation on 240 volts AC only.

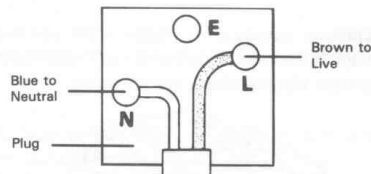
The mains plug must be removed from the wall socket prior to any internal examination.

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

Blue	Neutral
Brown	Live

The wires in this mains lead must be connected to the terminals in the plug as follows:

Wire colour	Plug terminal marking
Blue	N or Black
Brown	L or Red



Notes:

1. If a 13-amp plug is used, this must be fitted with a 5-amp fuse.
2. If a 3-pin plug with earthing contact is used, no wire must be connected to the E terminal.

For Australia and Europe

Important!

Units shipped to Australia are designed for operation on 240 V AC only.

Units shipped to Europe are designed for operation on 230 V AC only.

For other countries

Important!

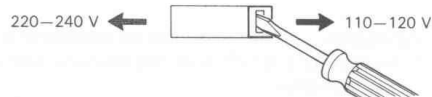
Units shipped to countries other than the above countries are equipped with an AC voltage selector switch under the turntable platter. Refer to the following paragraph for the proper setting of this switch.

AC voltage selection

This unit operates on 110-120 or 220-240 volts AC. The AC voltage selector switch under the turntable platter 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.

Note:

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



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

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.		

IMPORTANT SAFEGUARDS

Caution : Read this page carefully to ensure safe operation.

Please read all of the safety and operating instructions before operating this unit. For best results, follow all warnings placed on the unit and adhere to the operating and use instructions. These safety and operating instructions should be retained for future reference.

1. Power sources — The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

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, pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.

Never pull or stretch the cord.

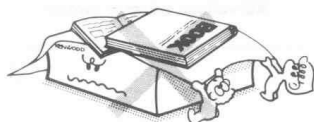


3. Grounding or polarization — The precautions should be taken so that the grounding or polarization means of this unit is not defeated.

4. Ventilation — The unit 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 unit. Place the unit at least 10 cm away from the walls.

Do not use the unit on a bed, sofa, rug or similar surface that may block the ventilation openings.

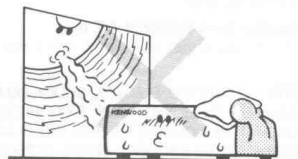


5. Water and moisture — The unit should not be used near water — for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

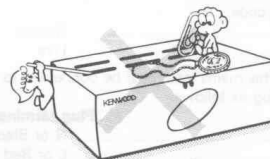


6. Temperature — The unit may not function properly if used at extremely low, or freezing temperatures. The ideal ambient temperature is above +5°C (41°F).

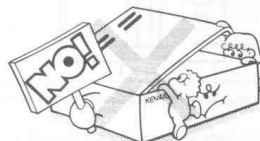
7. Heat — The unit should be situated away from heat sources such as radiators, heat registers, stoves, or other units (including amplifiers) that produce heat.



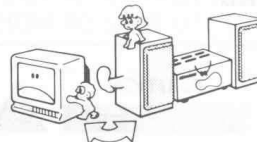
8. Electric shock — Care should be taken so that objects do not fall and liquid is not spilled into the enclosure through openings. If a metal object, such as a hair pin or a needle, comes into contact with the inside of this unit, a dangerous electric shock may result. For families with children, never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



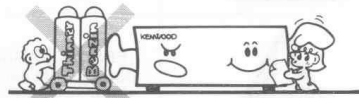
9. Enclosure removal — Never remove the enclosure. If the internal parts are touched accidentally, a serious electric shock might occur.



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



11. Cleaning — Do not use volatile solvents such as alcohol, paint thinner, gasoline, or benzene, etc. to clean the cabinet. Use a clean dry cloth.



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

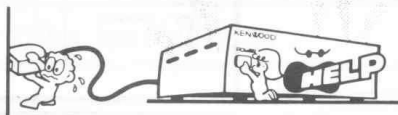
- 12. Carts and stands** — An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



- 13. Nonuse periods** — The power cord of the unit should be unplugged from the outlet when left unused for a long period of time.

- 14. Abnormal smell** — If an abnormal smell or smoke is detected, immediately turn the power OFF and pull out the power cord. Contact your dealer or nearest service center.

POWER OFF!



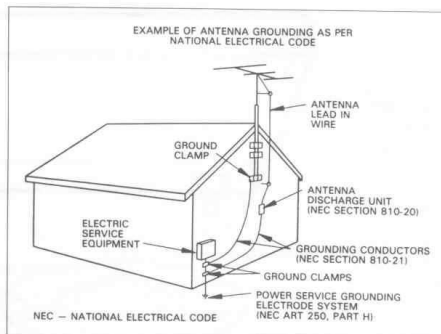
- 15. Damage requiring service** — The unit should be serviced by qualified service personnel when:

- A. The power-supply cord or the plug has been damaged; or
- B. Objects have fallen, or liquid has been spilled into the unit; or
- C. The unit has been exposed to rain; or
- D. The unit does not appear to operate normally or exhibits a marked change in performance; or
- E. The unit has been dropped, or the enclosure damaged.

- 16. Servicing** — The user should not attempt to service the unit beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

- 17. Outdoor antenna grounding** — If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electrical Code, ANSI/ NFPA No. 70—1984, 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 con-

ductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure.



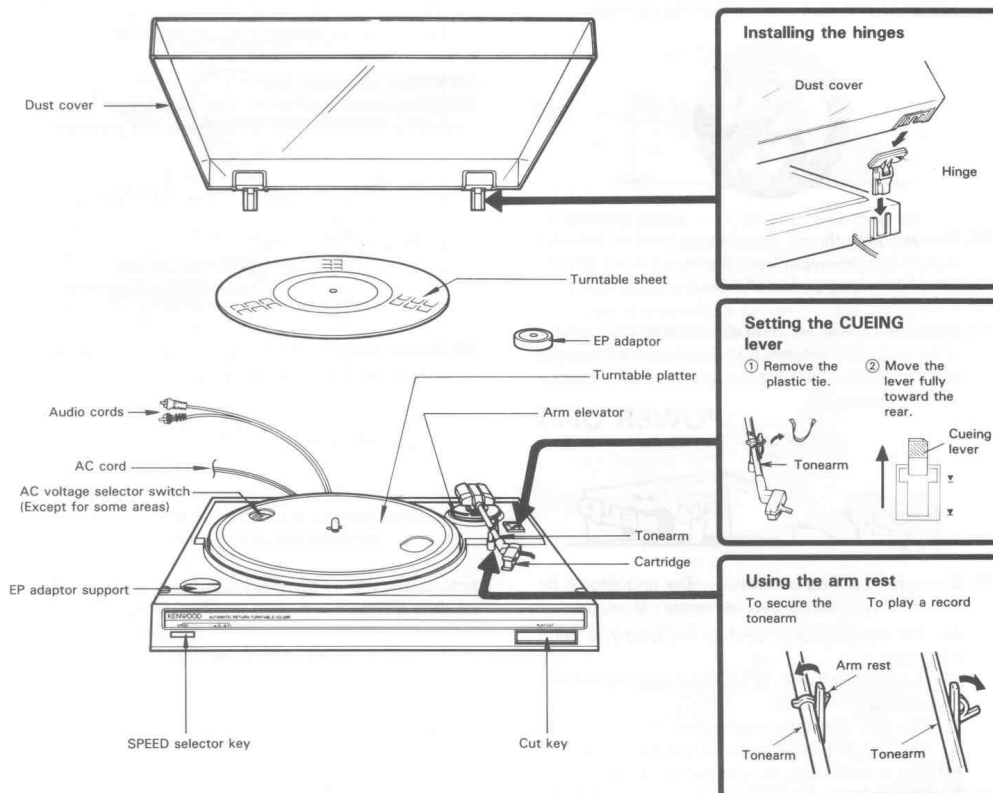
- 18. Power lines** — An outdoor antenna should be located away from power lines.

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.

Parts nomenclature and assembly

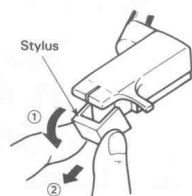
- Verify that all of the following parts are present before carrying out the assembly procedures.



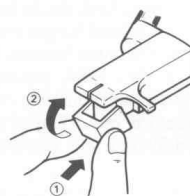
■ Replacing the stylus

- Use an N-74 or N-76 replacement stylus.
- Remove this unit's power cord from the AC outlet before replacing the stylus.
- One stylus is good for playing an LP record approximately 500 times.

1 Remove the existing stylus in the order ①→②.



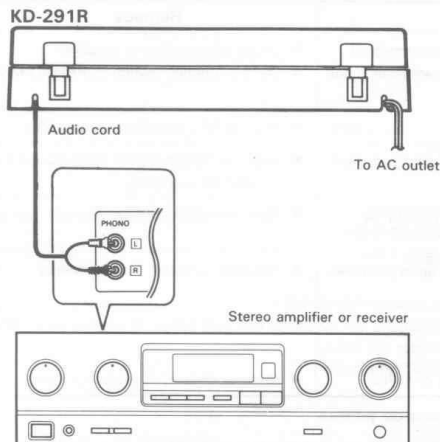
2 Install the new stylus in the order ①→②.



Note: Do not apply oil or lubrication to the motor, tonearm, or any of the turntable's mechanisms.

Connections

- Do not plug the power cord into an AC outlet until all of the other connections are completed.



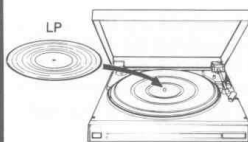
Setting the amplifier

This unit is equipped with an MM cartridge. Connect the audio cords of this unit to the PHONO MM jacks of the amplifier or set the cartridge load selector of the amplifier to MM.

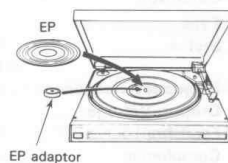
Operating instructions

1 Placing a record on the turntable platter.

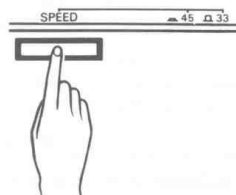
With an LP record



With an EP (single) record



2 Setting the playing speed.

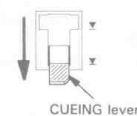
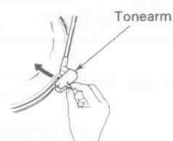


- Check the record label to verify which playing speed to select.

3 Playing the record.

Make sure that the CUEING lever is in the UP position.

- Pick up and move the tonearm to the position where you wish to begin listening.
- Lower the tonearm to begin playback.



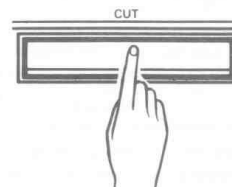
- The turntable platter begins rotating when the tonearm is moved over the record.
- It may happen that the tonearm returns automatically to the arm rest before play starts. If this occurs, repeat stops ① then ② again.

4 To pause or stop record playback.

- To pause record playback



- To stop record playback



- The tonearm automatically returns to the arm rest when playback is finished.

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
No sound from both left and right channels or from one channel.	<ul style="list-style-type: none"> Turntable output cables disconnected. The function switch of the amplifier is not set to PHONO MM. 	<ul style="list-style-type: none"> Check connections to amplifier. Set the function switch to PHONO MM.
Loud hum, no music.	<ul style="list-style-type: none"> Poor connection of turntable output cables. 	<ul style="list-style-type: none"> Make solid connections to amplifier.
Loud hum with music.	<ul style="list-style-type: none"> Turntable output cables picking up hum from AC cord. 	<ul style="list-style-type: none"> Separate output cables from AC cord or reverse AC cord plug.
Buzzing noise with music.	<ul style="list-style-type: none"> Turntable output cable picking up TV signal. 	<ul style="list-style-type: none"> Relocate output cord for minimum pickup.
Howling drowns out music when volume is increased.	<ul style="list-style-type: none"> Speaker vibration is picked up by turntable. 	<ul style="list-style-type: none"> Separate turntable from speakers.
Turntable platter does not turn.	<ul style="list-style-type: none"> Poor AC plug contact. 	<ul style="list-style-type: none"> Check connection. Make sure AC outlet is active.
Poor tracking.	<ul style="list-style-type: none"> Excessive dust on record or stylus. 	<ul style="list-style-type: none"> Remove dust from record or stylus.

Note:

Do not use contact cleaner because it could cause a malfunction. Be specially careful against contact cleaners containing oil, for they may deform the plastic components.

Specifications

Motor and turntable

Drive System.....Belt-Drive System

Motor.....DC Servo Motor

Speeds.....2 Speeds, 33-1/3 and 45 rpm.

Tonearm

Type.....Integrated Straight Tonearm

Cartridge

Type.....VM type(V-74 or V-76)

Stylus.....N-74 with 0.6 mill diamond
or N-76 with 0.6 mill diamond

Frequency Response.....20 Hz to 20,000 Hz

Output Voltage.....2.5 mV (1,000 Hz, 5.0 cm/sec)

Load Impedance.....47 kΩ

Compliance..... 4×10^{-6} cm/dyne

Miscellaneous

Power Consumption.....4 W

Dimensions.....W: 440 mm

H: 106 mm

D: 390 mm

Weight (Net).....2.9 kg

Note:

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