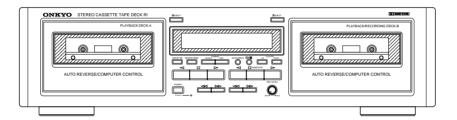
TA-RW244/144

Stereo Cassette Tape Deck Instruction Manual



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Thank you for your purchase of the ONKYO

TA-RW244/144 Cassette Tape Deck.

Please read this manual thoroughly before making connections and plugging in the AC power cord.

Following the instructions in this manual will enable you to obtain optimum performance and maximum listening enjoyment from your new TA-RW244/144.

Please retain this manual for future reference.

Features

Full-logic record/play transports with auto reverse and continuous play

Full-logic controls provide smooth, trouble-free electronic switching, and keep you from having to press the stop button when switching between functions. And auto-reverse/continuous play lets you play both sides of both cassettes in sequence, without having to take out the tapes and flip them over.

Two eight-segment peak-holding fluorescent meters

The easy-to-read FL meters have peak-holding functions, which are indispensable when setting the best record/playback levels.

Four-digit electronic tape counter

The large, clear electronic tape counter shows the current tape position, so you can easily edit and locate specific sections.

CD synchro recording

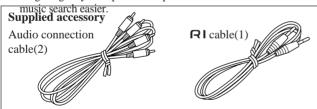
This feature lets you easily make accurate recordings from a compact disc at a touch of a button, when your tape deck is connected to certain RI (remote interactive) compatible ONKYO CD players.

RI (Remote Interactive) compatible

If you're one of the fortunate ones who own other ONKYO components that bear the **RI** mark, simple single-cable connection lets you operate all of the major functions of both transports of your TA-RW244/144 with the other component's remote. (The remote control supplied with ONKYO RICD players covers Deck-B functions only.)

Other features

- Auto tape selector: Automatically sets the optimum bias and equalization levels for the type of tape you insert.
- Dolby B and C Noise Reduction: Reduces the audibility of undesirable tape hiss while retaining music nuances.
- Auto space rec mute: Inserts precise five-second breaks between songs to give your tapes a more professional touch and to make



FOR EUROPEAN MODEL:



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ONKYO EUROPE ELECTRONICS GMBH
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FOR CANADIAN MODEL: (POUR LE MODELE CANADIEN)

• For models having a power cord with a polarized plug **CAUTION:**TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

• Sur les modèles dont la fiche est polarisée. **ATTENTION:**POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQ'AU FOND.

ATTENTION FOR BRITISH MODEL

Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel.

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 appliance 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 in the plug which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED

IMPORTANT

A 5 amp fuse is fitted in this plug. Should the fuse need to be replaced, please ensure that the replacement fuse has a rating of 5 amps and that it is approved by ASTA or BSI to BS1362. Check for the ASTA mark or the BSI mark on the body of the fuse. IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME, THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS IN-SERTED INTO ANY 13 AMP SOCKET.

If in any doubt, please consult a qualified electrician.

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

WARNING

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

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

- **1. Read Instructions** All the safety and operating instructions should be read before the appliance is operated.
- **2. Retain Instructions** The safety and operating instructions should be retained for future reference.
- **3. Heed Warnings** All warnings on the appliance and in the operating instructions should be adhered to.
- **4. Follow Instructions** All operating and use instructions should be followed.
- 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, and the like.
- **6.** Carts and Stands The appliance should be used only with a cart or stand that is recommended by the manufacturer.
- **6A.** An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surface may cause the appliance and cart combination to overturn.

PORTABLE CART WARNING



- **7. Wall or Ceiling Mounting** The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 8. Ventilation The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or if placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings, there should be free space of at least 20 cm (8 in.) and open up behind the appliance.
- **9. Heat** The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- **10. Power Sources** The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
- **11. Polarization** If the appliance is provided with a polarized plug having one blade wider than the other, please read the following information: The polarization of the plug is a safety feature. The polarized plug will only fit the outlet one way. If the plug does not fit fully into the outlet, try reversing it. If there is still trouble, the user should seek the services of a qualified electrician. Under no circumstances should the user attempt to defeat the polarization of the plug.
- **12. 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 the cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- **13.** Cleaning The appliance should be cleaned only as recommended by the manufacturer.
- **14.** Nonuse Periods The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
- Object and Liquid Entry Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
- **16. Damage Requiring Service** The appliance 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 appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
- **17. Servicing** The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Precautions

1. Warranty Claim

You can find the serial number on the rear panel of the unit. In case of warranty claim, please report this number.

2. Recording Copyright

Recording of copyrighted material for other than personal use is illegal without permission of the copyright holder.

3. Deck Location

- Do not use or leave in direct sunlight or in other places subject to high temperature and humidity. The unit should also not be left in potentially hot places such as near heating appliances. Excessive heat and moisture can lead to internal damage and serious malfunctions (this also applies to cassette tapes).
- The recommended ambient temperature range is 5°C to 35°C. • Avoid damp and dusty places and locations prone to vibra-
- tions.
- Be extremely careful with the recording/playback heads. Clean and demagnetize them regularly, but under no circumstances should magnets or other metals be used anywhere near the heads.
- This unit is extremely sensitive to magnetic fields, so do not use near large speakers or other devices which generate magnetic fields.
- Hum may even be induced by magnetic flux leakage from the power transformer in certain amplifiers. Therefore, this unit should also be kept clear of the amplifier.
- Do not remove the cabinet case. If any of the internal parts are handled, there is a considerable danger of electric shock.

4. Cassettes to Avoid:

- Cassettes with poorly formed cases that rattle during rewind and fast forward.
- Low cost cassettes with no guide roller or pressure pad spring should never be used for stereo.
- C-120 cassettes because the tape and the coating are extremely thin, distortion levels are high. Also, even a slight stretching of the tape will make it susceptible to being caught up in the pinch roller and capstan.
- Endless tapes, if used for a long period of time, can overheat.

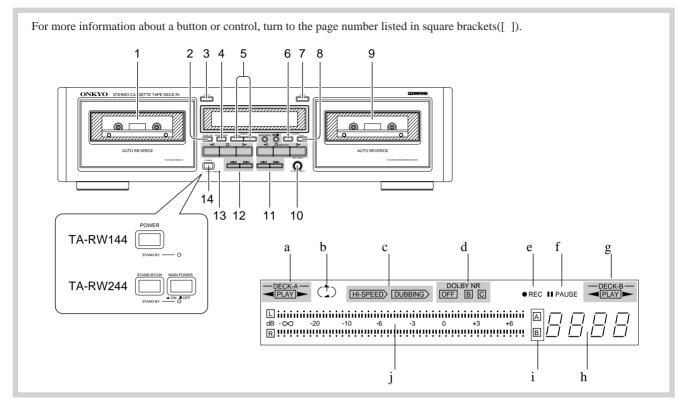
5. Power

WARNING BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CARE-FULLY.

- The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit will be used meets the required voltage (e.g., AC230V 50Hz or AC120V 60Hz) written on the rear panel.
- Voltage Selector (Rear Panel)

Worldwide models are equipped with a voltage selector to conform with local power supplies. Be sure to set this switch to match the power supply in your area before plugging in the unit. Models without a voltage selector can only be used in areas where the power supply voltage is the same as that of the unit. (See page 4)

Control positions and names



Front panel

- 1. Deck A cassette holder [6]
- 2. DOLBY NR button [6, 8, 9]
- 3. Deck A ▲ EJECT button [6]
- 4. REVERSE MODE button [6, 7, 8, 10]
- 5. DUBBING button (NORMAL/HIGH) [10]
- 6. COUNTER A/B button [8]
- 7. Deck B ▲ EJECT button [8]
- 8. COUNTER RESET button [8]
- 9. Deck B cassette holder [8]
- 10. REC LEVEL control knob [8]
- 11. Deck B operation buttons
 - •/II : Rec/pause button [8]
 - AUTO SPACE
 - : Auto space button [11]
 - Rewind button [7]
 - ►► : Fast forward button [7]
 - Reverse play button [6, 9]
 - : Stop button (DUBB.STOP) [6, 9, 10]
 - ► : Forward play button [6, 9]

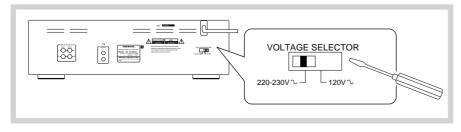
- 12. Deck A operation buttons
 - **Constant** : Rewind button [7]
 - ► : Fast forward button [7]
 - Reverse play button [6]
 - : Stop button [6]
 - ► : Forward play button [6]
- 13. STAND-BY indicator [5]
- 14. POWER button [5] (TA-RW144) STAND-BY/ON button [5] (TA-RW244) MAIN POWER button [5] (TA-RW244)

Display

- a Deck A direction indicator
- b Reverse mode indicator
- c Dubbing indicators
- d Dolby NR indicators
- e REC indicator
- f PAUSE indicator
- g Deck B direction indicator
- h Counter
- i Deck A/B indicator
- i Peak level indicator

Setting the voltage selector (Worldwide model only)

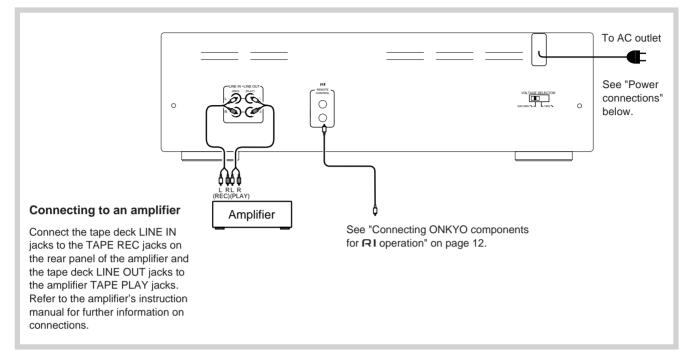
Models without a voltage selector can only be used in areas where the power supply is the same as that of the cassette deck.



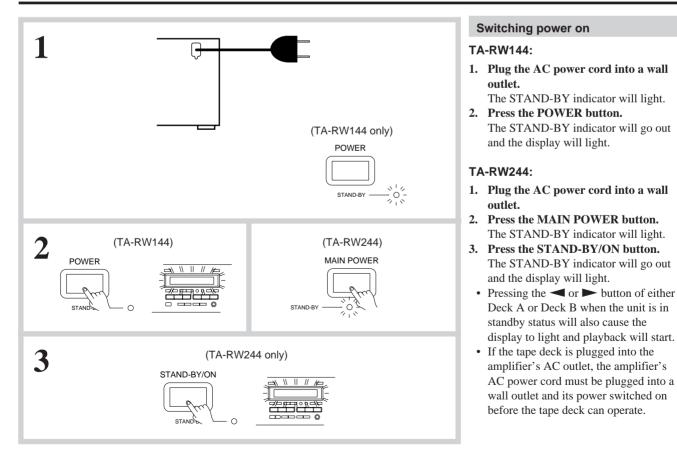
- 1. Determine the proper voltage for your area: 220-230 V or 120 V.
- 2. If the preset voltage does not conform to your area, insert a screwdriver into the groove in the switch. Slide the switch all the way to the right (120 V) or to the left (220-230 V), whichever is appropriate.

System connections

- Do not plug in the AC power cord until all other connections have been made.
- On each pair of input or output jacks, the lower jack (marked R) corresponds to the right channel, and the upper jack (marked L) to the left channel. Refer to the amplifier's instruction manual for further information on connections.

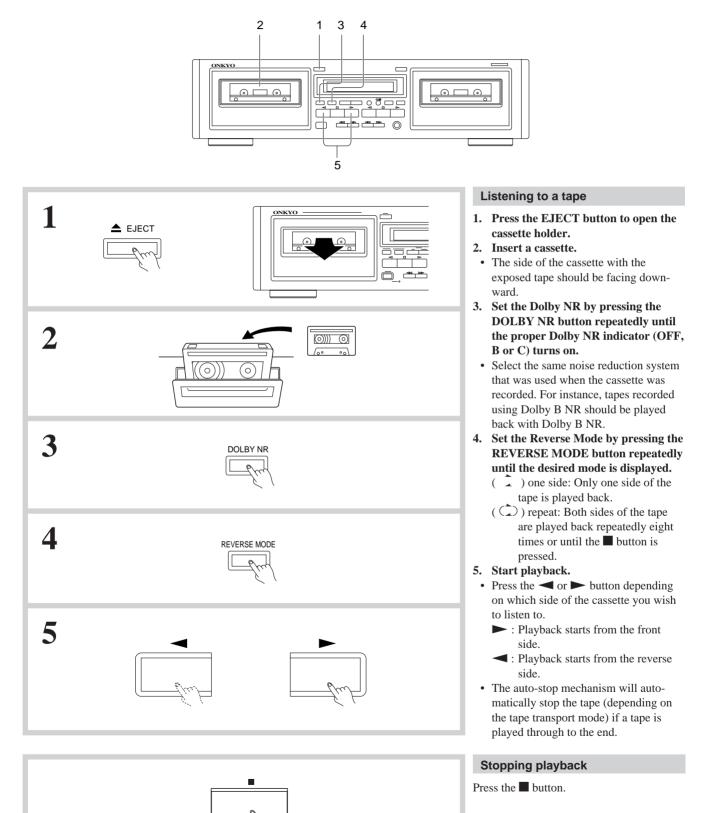


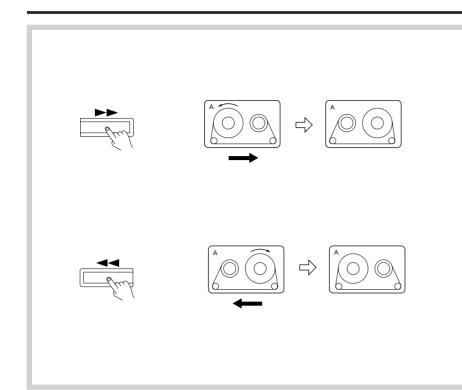
Power connections



To play a tape

- Check once again that all connections have been completed exactly as indicated in the connections diagram and then plug in the AC power cord.
- After turning the power on, the display illuminates and the **II** PAUSE indicator flashes (about 5 seconds). While the indicator is flashing, no operation can be performed.
- This deck holds two cassettes at once. Both Deck A and Deck B are capable of auto-reverse playback; Deck B can also record.
- Tapes can be played back using either Deck A or Deck B. Follow the procedure on Deck A or B. (Deck A is pictured.)





Recheck the tape direction settings (shown by the Deck A and Deck B direction indicators) before pressing the $\blacktriangleleft \blacksquare$ or $\blacktriangleright \triangleright$ button.

The following explanation assumes that the tape direction is forward (\blacktriangleright).

Fast forward and rewind

To fast forward the tape, press the \blacktriangleright button.

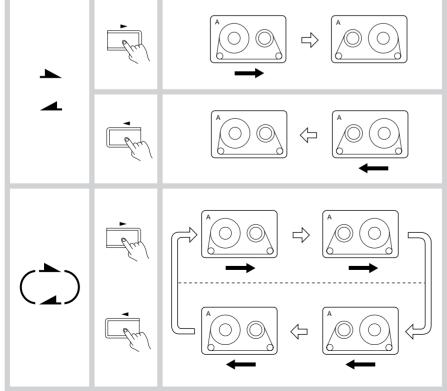
- To rewind the tape, press the **I** button.
- To stop either fast forward or rewind, press the button.
- It is always important to press the **b**utton before the **b** or **d** buttons are used while the tape transport is active. This helps to reduce performance problems. (or to ensure long life and better performance from your new cassette deck we advice that:)

Automatic tape selection system

This deck automatically detects the type of cassette in the cassette holder and sets the bias and equalization to the correct settings. Tape selection is performed by detecting the presence or absence of identification pits on the back of the cassette shell. Cassettes manufactured before this identification system was adopted and bargain cassettes that do not incorporate these pits cannot be used with this deck.

Reverse mode function

- Recheck the tape travel direction settings (shown by the Deck A and Deck B direction indicators) before beginning playback or recording.
- The following explanation assumes that cassette side A is facing outward.
- There is a silent gap about 10 seconds long when the direction of tape travel switches from forward to reverse or from reverse to forward when the end of a tape side is reached.



Continuous tape playback

Insert the cassettes you wish to play in Deck A and Deck B. Set the reverse mode to \bigcirc . Press the \blacktriangleleft or \blacktriangleright button of either Deck A or Deck B. Both sides of both cassettes will play back, one after the other, and then the process will repeat. After four complete playback cycles, playback stops automatically.

• Be sure to select the same Dolby NR system on both Deck A and Deck B.

Recording to both sides of a tape (Deck B)

Insert the cassette you wish to record in Deck B. Set the reverse mode to \bigcirc . Press the \bigcirc /II button followed by the \blacktriangleright button of Deck B to start recording from the front side.

Both sides of the cassette are recorded. Then, the auto-stop mechanism will stop the tape at the end of the reverse side.

• If recording starts in the reverse direction first, only the reverse side is recorded, after which tape travel stops automatically.

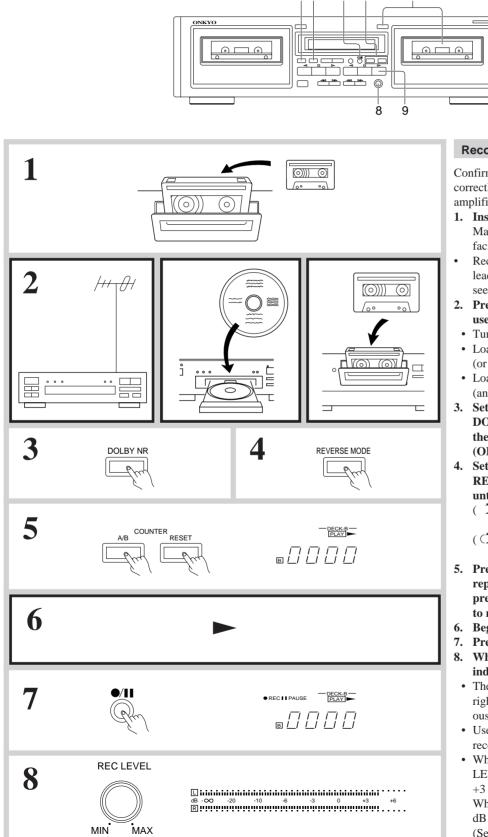
Recording

Recording can be performed on Deck B only. High-speed recording is not possible when recording from the LINE IN (REC) jacks.

• Check to see if one or both of the cassette's erasure prevention tabs have been removed. (Refer to page 13 for details)

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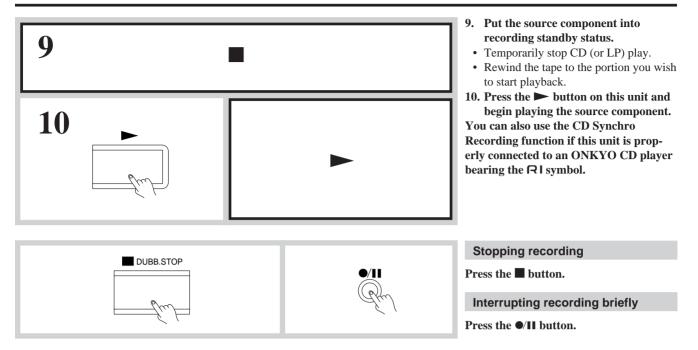
- · Confirm that the cassette deck is properly connected to the amplifier.
- Illustrations enclosed in solid boxes indicate source component operations.



Recording

Confirm that the amplifier is set up correctly for recording. (Refer to the amplifier's instruction manual for details.)

- 1. Insert the cassettes. Make sure the side to be recorded is facing outward.
- Recording is not possible on the tape leaders (the transparent sections you see at both ends of the tape.)
- 2. Prepare the source component to be used for the recording.
- Tune in the desired station on the tuner.
- Load a CD (or LP) into the CD player (or turntable).
- Load a cassette into the tape player (analog or DAT).
- 3. Set the Dolby NR by pressing the DOLBY NR button repeatedly until the desired Dolby NR indicator (OFF, B or C) turns on.
- 4. Set the Reverse Mode by pressing the REVERSE MODE button repeatedly until the desired mode is displayed.
 - () one side: Only one side of the tape is recorded.
 - (C)) repeat: Both sides of the tape are recorded.
- 5. Press the COUNTER A/B button repeatedly until
 is displayed, and press the COUNTER RESET button to return the tape counter to [0000].
- 6. Begin playing the source component.
- 7. Press the ●/II button.
- 8. While observing the peak level indicators, adjust the recording level.
 - The recording levels of the left and right channels are adjusted simultaneously.
- Use the REC LEVEL knob to adjust the recording level.
- When using metal cassettes, the REC LEVEL knob should be adjusted so that +3 dB indicators light periodically.
 When using other kinds of tapes, the 0 dB indicator should light periodically. (See "Making good sound recordings" on page 9.)



Making good sound recordings

Dolby Noise Reduction System

Dolby B NR is the system used in most cassette tape decks to reduce the background noise that is inherent in all cassette tapes. Dolby Laboratories then developed an even more effective noise reduction system, Dolby C NR, in response to the demand for increasingly better sound quality from cassette tapes.

Both Dolby noise reductions systems operate by boosting signals during recording that fall below a certain input level. Dolby B and C NR operate on the higher portions of the frequency spectrum using what is called a "sliding band" technique. This is because tape hiss is most prominent during the quiet, high frequency portions of a recording. These same signals are then reduced back to their original strength during playback, thereby reducing the background noise by the same amount. In order to operate only when necessary, the Dolby NR system has a varying effect depending on the input level and frequency of the material being recorded.

Dolby C NR is capable of reducing tape hiss by 10 dB more than Dolby B NR. In addition to its noise reducing function, Dolby C NR has an anti-saturation network that lowers high input levels before recording them and returns the signals to their original strength during playback. This raises the high-frequency saturation level of cassette tapes to allow you to record signals that would normally cause distortion. This system raises the maximum output level of cassette tapes by more than 4 dB at 10 kHz.

Setting the Proper Recording Level

The recording level has an important effect on the sound quality a tape will have when it is played back. A recording level that is too high will cause distortion while one which is too low will lower the signal-to-noise ratio resulting in a tape with excessive "hiss noise." It is particularly important to set the recording level correctly with cassette tapes since they have a much thinner magnetic coating than open reel tapes. The thin coating gives the tape a comparatively low saturation level which can easily be surpassed if the recording level is set too high. The recording level indicators feature a peak-hold function for the

indicators from -6 dB through +6 dB. This can come in handy when setting the recording level.

CD Synchro Recording System

Once the TA-RW244/144 is connected to a CD player bearing the \square mark (see page 12), press the \blacktriangleright button of the CD player will cause recording to start automatically on the TA-RW244/144.

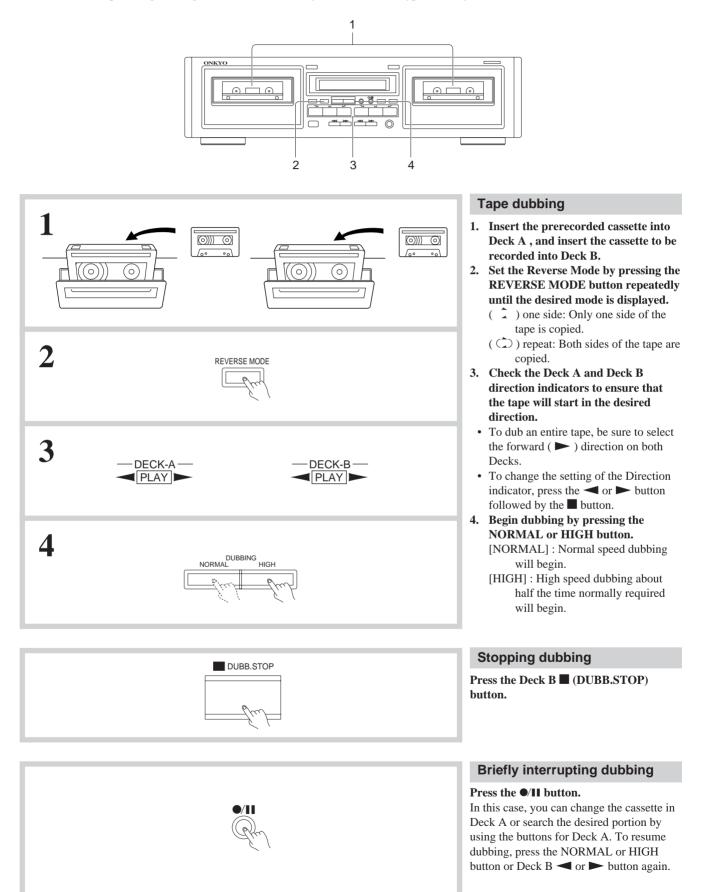
- 1. Insert a cassette with the side to be recorded facing out.
- 2. Start the CD player.
- 3. Press the ●/II button to place the unit in the recording standby mode. Adjust the input level. When the recording level has been set, stop the CD player.
- 4. Start the CD player again, and recording will begin simultaneously.

Notes:

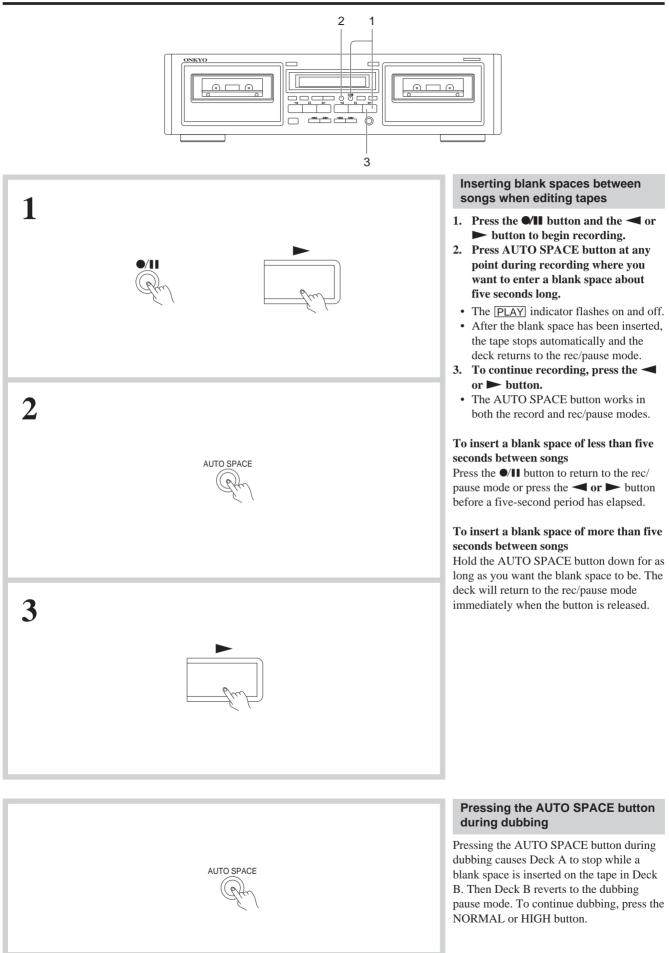
- 1. Even if the CD player is stopped during recording, the cassette deck will continue recording.
- 2. If the cassette deck is in the recording standby mode when the CD is put in play, the deck will begin recording. When setting recording levels, always start the CD first.

Tape dubbing

- The recording level is automatically set to the optimum level during dubbing.
- The Dolby NR System of Deck A is automatically used to record the tape in Deck B. If you wish to monitor the signal from a Dolby NR encoded tape during dubbing, be sure to set the Dolby NR to match the type of Dolby NR with which the cassette was recorded.

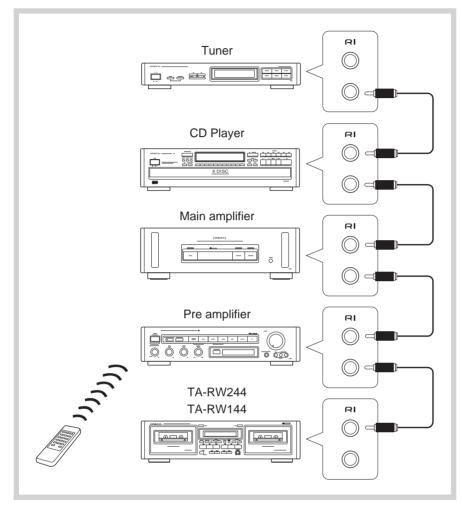


Useful recording functions



Connecting ONKYO components for RI operation

If this unit is properly connected to another ONKYO component bearing the **RI** symbol, you will be able to control it using the other component's remote control.



For remote control operation

The upper and lower remote control jacks have the same function.

For remote control operation, connect this jack to any ONKYO amplifier, receiver or CD player bearing the **RI** symbol using the remote control cable.

Note:

Do not attempt to connect the **RI** remote control jack to any equipment other than an ONKYO component bearing the **RI** symbol. Doing so could cause the unit to malfunction.

The function listed below can be accomplished using the remote control of the master unit.

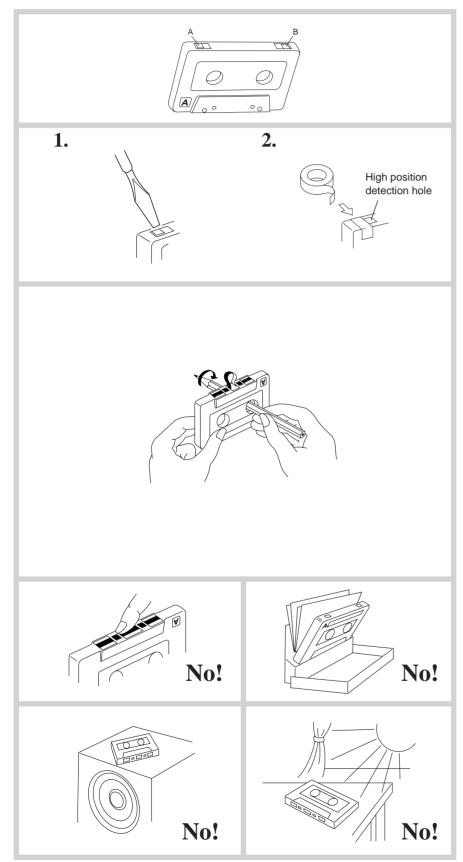
: Play
: Rewind
: Fast forward
: Stop
: Rec/Pause

CD synchro recording system

Once connections are made, as shown left, this function becomes enabled. It automatically starts recording on the cassette deck when the \blacktriangleright button of the CD player is pressed. (See page 9.)

Handling cassette tapes

Examine cassette tapes carefully before using them with the casette tape deck.



Erasure prevention

Cassette tapes are constructed with erasure prevention tabs to prevent accidental erasure of the tape.

- 1 If you wish to protect a recording from accidental erasure, break off the tab(s) on the appropriate side(s). It will no longer be possible to use the recording button with such a cassette.
- 2 If at some later date you wish to record the cassette, simply cover the hole(s) with small pieces of cellophane tape.
 - Be sure not to cover the holes for detecting high-position tapes.

Loose tape

Loose tape can cause tangling around the pinch roller and capstan and jam the mechanism.

Remove any tape slack with a pencil or similar device as shown in the diagram.

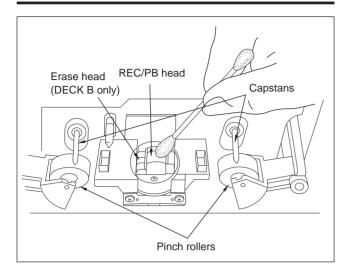
Tapes not recommended

- C-120 tapes
 C-120 tape is thin and therefore easily broken. There is a possibility that tape could get caught on the pinch roller or capstan.
- 2. Endless tapes Do not use endless tapes.

Tape storage

- Do not touch the tape surface.
- Do not put thick paper or cardboard labels in the cassette holder.
- Do not put tapes near magnetic sources (speakers, amplifiers, TVs, etc.) Your important recording might be erased or damaged.
- Do not expose cassettes to direct sunlight.

Cassette deck maintenance



This deck requires no lubrication.

Head, Pinch Roller and Capstan Cleaning

Playback sound quality can be greatly diminished if magnetic particles are allowed to accumulate on the recording/playback head or playback head. Be sure to clean the head periodically, normally 2 - 3 times a month, to maintain your deck's original performance. Dirty heads may cause:

- Poor sound quality (lose of high frequency response)
- · Decreased volume
- Skipping
- Incomplete erasure of previous recordings

If the pinch rollers and capstan are dirty, the tape may become tangled and damaged by wrapping around the pinch roller and capstan.

To prevent these problems, clean the heads, pinch rollers and capstans with a cotton swab dipped in cleaning fluid.

Demagnetizing

Residual magnetism builds up in the heads after the cassette deck has been used for an extended period of time. This buildup introduces noise and static into tapes and impairs high frequency response. To prevent this, demagnetize the heads with any commercially available head eraser once every 50 hours of use. Refer to the instruction manual of the head eraser for detailed instructions.

Specifications

Track Format:	4-track, 2-channels
Erasure System:	AC erase
Tape Speed:	4.8 cm/sec. (1-7/8 i.p.s.)
* *	9.6 cm/sec. (3-3/4 i.p.s.) (high-speed
	dubbing)
Wow and Flutter:	0.08 % (WRMS)
Frequency Response:	20 — 15,000 Hz (Normal)
	(30 — 14,000 Hz ± 3 dB)
	20 — 16,000 Hz (High)
	$(30 - 15,000 \text{ Hz} \pm 0 \text{ dB})$
	20 — 17,000 Hz (Metal)
	$(30 - 16,000 \text{ Hz} \pm 0 \text{ dB})$
S/N Ratio:	Dolby NR off: 58 dB (metal position
	tape)
	A noise reduction of 10 dB above
	5 kHz and 5 dB at 1 kHz is possible
	with Dolby B NR.
	A noise reduction of 20 dB at 5 kHz
	is possible with Dolby C NR.
Input Jacks:	Line IN: 2
	Input sensitivity: 80 mV
	Input impedance: 50 kohms
Outputs:	Line OUT: 2
	Standard output level: 500 mV
	(0 dB)
	Optimum load impedance: over
	50 kohms
Motors:	DC servo motor $\times 2$
Heads:	REC/PB: 1
	PB: 1
	ERASE: 1
Power Supply:	TA-RW144:
	AC 120 V, 60 Hz
	TA-RW244:
	AC 230 V, 50 Hz
	AC 120 V and 220-230 V, Switchable 50/60 Hz
Power Consumption	(Worldwide model)
Power Consumption: Dimensions:	17 watts $455(W) \times 120(H) \times 305(D) \text{ mm}$
Differisions.	$(17-15/16" \times 4-3/4" \times 12")$
Weight:	$(17-13/16 \times 4-3/4 \times 12)$ 5.2 kg. (11.5 lbs.)
weight.	J.2 Ng. (11.J 108.)

Specifications and external appearance are subject to change without notice because of product improvements.

Troubleshooting guide

The following guide lists problems which do not require professional servicing. If, however, the problem cannot be remedied using this guide, contact an ONKYO authorized service center for assistance.

• No power.

Cause: Power cord plug is loose Remedy: Insert plug properly into outlet.

• Playback but no sound.

Cause: Incorrect connection.

Remedy: Check and connect correctly according to page 5. *Cause:* Stereo amplifier input selector switch is set to

incorrect position. *Remedy:* Change switch position.

• Tape does not move.

Cause: Slack tape wound around pinch roller. *Remedy:* Take up slack with a pencil (see page 13).

• •/II button does not engage.

Cause: No tape in cassette holder.
Remedy: Insert cassette tape.
Cause: Erasure prevention tab(s) removed.
Remedy: Change cassette or cover tab hole with cellophane tape.

• Hoarse sound, balance unstable.

Cause: Playback head dirty. *Remedy:* Clean head (see page 14). *Cause:* Tape is stretched. *Remedy:* Replace cassette.

• Excessive noise and tape hiss.

Cause: Head has become magnetized. Remedy: Demagnetize (see page 14). Cause: Tape with high noise level. Remedy: Replace cassette.

• Distorted sound.

Cause: Distortion in tape. *Remedy:* Tape is probably bad but confirm by listening to another.

• Recordings are distorted.

Cause: Recording was done at too high a level. *Remedy:* Readjust REC LEVEL knob according to the directions on page 8.

• Tape squeal and skipping.

Cause: Dirty heads, pinch rollers or capstan shafts.
Remedy: Clean (see page 14).
Cause: Cassette shell is binding tape or tape is stretched.
Remedy: Change cassette or try correcting with fast forward and rewind.

• Excessive hum during playback.

Cause: Connecting cables not inserted firmly.*Remedy:* Insert plugs firmly.*Cause:* External flux leakage from nearby amplifier or TV set.

Remedy: Move deck away from hum source.

• High frequencies too strong.

Cause: Dolby NR encoded tape played back with NR off. Remedy: Select the same noise reduction (Dolby NR B or C) used when the cassette was recorded.

- Cause: Incorrect equalization.
 - *Remedy:* Confirm that cassette has tape type detection holes.

• No high frequency sounds.

Cause: Tape not encoded with Dolby NR played back with Dolby B or C NR on.

Remedy: Select the appropriate NR mode using the DOLBY NR button (OFF).

Cause: Heads have become dirty. *Remedy:* Clean (see page 14).

• The skip function does not operate properly.

Cause: The silent sections between songs are too short or noisy.

Remedy: Use a cassette with sufficiently silent sections of sufficient length between songs.

• Deck does not operate properly.

Cause: Tape transport control microcomputer has been exposed to interference from power supply or static electricity.

Remedy: Press the POWER button to turn off the power. Wait approximately 10 seconds and turn it on again.

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