

# TASCAM

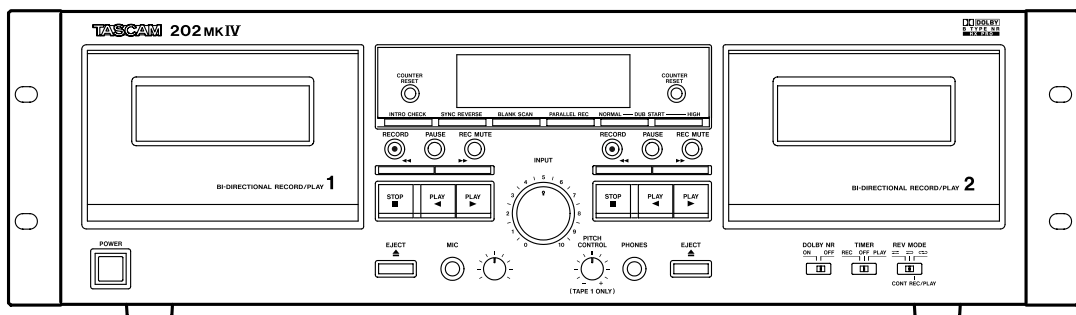
TEAC Professional Division

D00935220B

# 202MKIV

## Double Auto Reverse Cassette Deck

### OWNER'S MANUAL



# IMPORTANT SAFETY PRECAUTIONS



**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 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.

This appliance has a serial number located on the rear panel. Please record the model number and serial number and retain them for your records.

Model number \_\_\_\_\_

Serial number \_\_\_\_\_

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

For U.S.A.

TO THE USER

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 generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

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.

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

**CAUTION:**

Changes or modifications to this equipment not expressly approved by TEAC CORPORATION for compliance could void the user's authority to operate this equipment.

# IMPORTANT SAFETY INSTRUCTIONS

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11 Only use attachments/accessories specified by the manufacturer.
- 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
  - Do not expose this apparatus to drips or splashes.
  - Do not place any objects filled with liquids, such as vases, on the apparatus.
  - Do not install this apparatus in a confined space such as a book case or similar unit.
  - The apparatus draws nominal non-operating power from the AC outlet with its POWER switch in the off position.
  - The apparatus should be located close enough to the AC outlet so that you can easily grasp the power cord plug at any time.
  - An apparatus with Class I construction shall be connected to an AC outlet with a protective grounding connection.
  - Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.



- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.

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# 1 – Introduction

Thank you for your purchase of the TASCAM 202MKIV Double Auto Reverse Cassette Deck.

Before connecting and using the unit, please take time to read this manual thoroughly to ensure you understand how to properly set up and connect the 202MKIV, as well as the operation of its many useful and convenient functions. After you have finished reading this manual, please keep it in a safe place for future reference.

## Dolby NR

Dolby NR is designed to reduce tape hiss, a noise introduced during the recording and playback processes. This cassette deck is equipped with Dolby B-type Noise Reduction.

The Dolby NR system affects both recording and playback quality. In playback, be sure to set the DOLBY NR switch to the same position used when the recording was made.

Manufactured under license from Dolby Laboratories.

HX Pro headroom extension originated by Bang and Olufsen.

Dolby, HX Pro, and the double-D symbol are trademarks of Dolby Laboratories.

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## Supplied accessories

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In addition to this manual, the 202MKIV has been packed with the following:

- A rack-mounting screw kit (screws and washers)...1
- A warranty card .....1

Contact your TASCAM supplier if any of these items are missing.

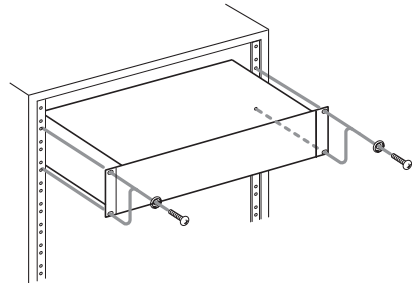
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## Rack-mounting the unit

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If you are mounting the unit in a rack, leave 1U of space above it and 4 inch (10 cm) or more of space at the rear.

Use the rack-mounting kit to mount the unit in a standard 19-inch equipment rack, as shown in this section. Remove the feet of the unit before mounting.



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## About this manual

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In this manual, we use the following conventions:

- The names of keys and controls are given in the following typeface: **EJECT**.
- The alphanumeric portion of the display shows a message, this is shown in the following typeface: **CP01**.
- If a preset indicator in the display (i.e. one which cannot change, but is either on or off) is shown, this is shown as follows: **PARALLEL**.

# 1 – Introduction

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## Precautions and notes for placement and use

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The 202MKIV may be used in most areas, but to maintain top performance, and prolong operating life, observe the following notes, precautions and environmental conditions:

- Avoid exposing it to extremes of temperature and humidity and avoid mechanical shocks and vibration.
- Keep the unit away from strong magnetic fields (TV sets, computer monitors, large electric motors, etc.).
- The nominal temperature should be between 5°C and 35°C (41°F and 95°F).
- Relative humidity should be 30 to 90 percent.
- As the unit may become hot during operation, always leave sufficient space above the unit for ventilation. Do not install this unit in a confined space such as a bookcase, and do not put anything on top of the unit.
- Avoid installing this unit on top of any heat-generating electrical device such as a power amplifier.
- Make sure that the unit is mounted in a level position for correct operation.

- Do not open the sealed cabinet as this might result in damage to the circuitry or electrical shocks. If a foreign object should get inside the unit, contact your supplier or service agency.
- When removing the power plug from the wall outlet, always pull directory on the plug, never yank the cord.
- The voltage selector on the rear panel is only available on units for the North American market. Please set this to match your local supply. If you are in any doubt in this matter, consult an electrician

### NOTE

*When transporting the unit, always use the original packing materials. For this reason, we strongly recommend that you save all the packing materials that came with the 202MKIV, in case you need to transport it in the future. In addition, when transporting the unit, you should tape the cassette decks closed, using an adhesive tape that will not spoil the finish of the unit.*

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## About cassette tapes

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### CAUTION

- *Do not open the cassette or pull the tape out of the cassette.*
- *Do not touch the tape surface.*
- *Do not use or store the tape in a humid or dusty place.*

- *Keep the tape away from any magnetic sources, such as speakers or TVs, otherwise noise may be produced during playback or important recordings may be erased.*

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## Cassette tapes that you should not use

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Poor performance, errors, or malfunctions may result if you use any of the tapes described below. Some of these tapes may also cause tape clog problems that can damage the tape transport mechanism.

### Cassettes that are imperfectly shaped

Do not use a deformed cassette or one that has unstable tape movement or makes a strange sound during fast-forward or rewind.

### Long play tapes

Do not use C-120 or longer tapes. These tapes are very thin and can easily stretch or get tangled in the tape transport mechanism.

### Endless tapes

Do not use these tapes because they can easily get tangled in the tape transport mechanism.

# 1 – Introduction

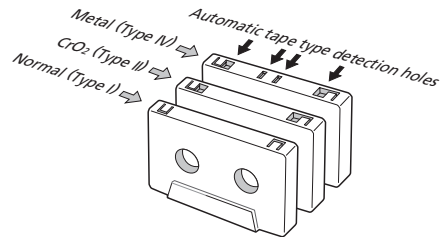
## Automatic tape type detection function

This cassette deck can detect what type of tape is being used based on the detection holes in the cassette shell. Be sure to use cassettes with detection holes.

With this cassette deck, you can play back normal (Type I), chrome (Type II) and metal (Type IV) tapes. For recording, use normal (Type I) or chrome (Type II) tapes.

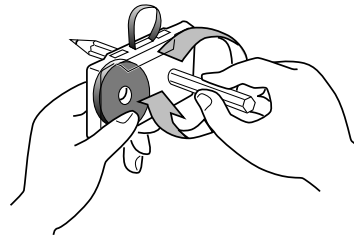
Each deck (TAPE 1 and TAPE 2) is equipped with its own auto tape type detection function, so you can use

different types of tape at the same time.



## Tape slack

Slack can cause the tape to get tangled in the capstan or other rotating parts. To prevent this, take up all tape slack using a pencil or the like inserted into the reel hole.



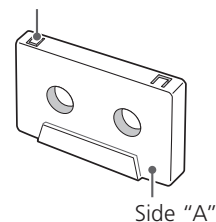
## Accidental erasure prevention tabs

Tabs on top of the cassette shell allow you to prevent important recordings from being erased by mistake. There are two tabs on each cassette shell: one for side "A" and the other for side "B".

Once these tabs have been removed using a screwdriver or the like, there is absolutely no chance of the recording function being activated.

To record on a cassette whose tab has been broken off, stick a piece of adhesive tape over the hole. Be careful not to block the tape type detection holes.

Accidental erasure prevention tab for side "A"



## Maintenance

If the surface of the deck becomes soiled, wipe it clean with a dry, soft cloth. To remove stubborn dirt, wipe with a cloth slightly moistened with a solution of mild detergent and water, then moisten a cloth with water, wring it well, and rub over the surface.

Do not allow the deck to remain in contact with rubber or vinyl products for a long period of time, as these could damage the surface finish.

Never use volatile cleaners like thinners, benzine or alcohol because they will damage the surface finish.

### CAUTION

*For safety, always unplug the power cord before performing any maintenance.*

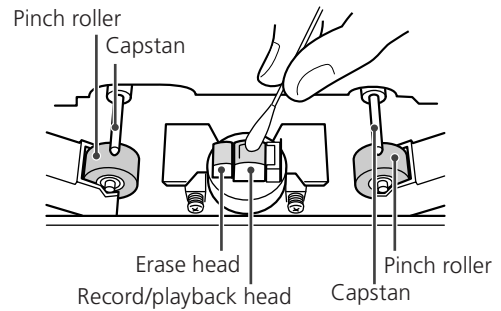
### ■ Cleaning the heads

If the head section gets dirty, the recording quality will deteriorate, resulting in degraded playback sound or "drops" in sound. Also, if the tape transport path gets dirty, the tape may get entangled in the rotating parts. It is therefore recommended that the heads, pinch rollers and capstans be cleaned regularly at intervals of 10-hour use with a cotton swab moistened with a commercially available, appropriate cleaning liquid.

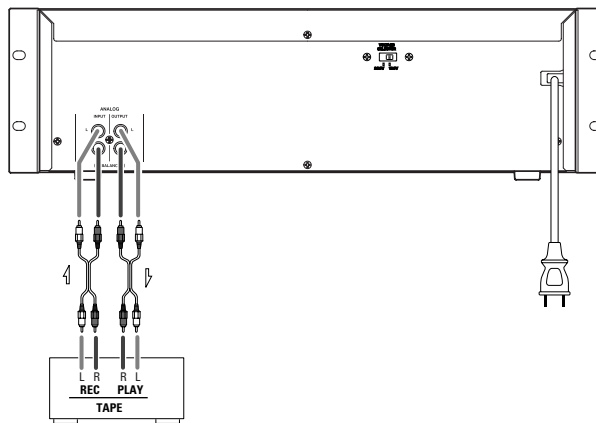
# 1 – Introduction

## NOTE

*Do not make a recording or play back tape when the tape transport path is wet with cleaning liquid, as this could cause the tape to jam or clog.*



## Connections



## CAUTION

- *Plug the power cord into an AC outlet only after having made all other connections.*
- *Read the instructions of each component you intend to use with this unit.*

Use the supplied RCA cables to make connections between this unit and your amplifier. Make sure to connect:

- White plug to White jack (L: left channel)
- Red plug to Red jack (R: right channel)

## NOTE

*Plugs must be firmly inserted into the corresponding jacks. Do not bundle the RCA cables together with the power cord and speaker cables. Doing so will degrade sound quality or generate noise.*

Plug this AC power cord into an AC wall socket.

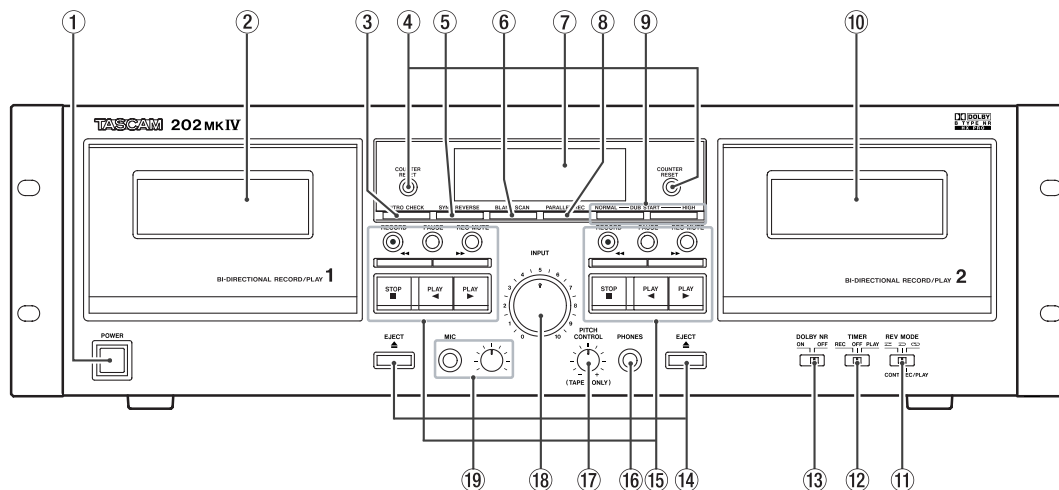
## NOTE

- *Hold the power plug when plugging or unplugging the power cord. Never pull or yank on the power cord.*
- *Unplug the power cord when you are not going to use the unit for some time.*



# 2 – Features of the 202MKIV

## Front panel



### ① Power switch

This switch toggles the unit on/off.

### NOTE

*The equipment draws nominal non-operating power from the AC outlet with its POWER switch in the OFF position.*

### ② TAPE 1 compartment

### ③ INTRO CHECK key

Pressing this key allows you to identify recorded segments by listening to the first 15 seconds of each segment.

### ④ COUNTER RESET keys

Pressing these keys reset the tape counter readings for TAPE 1 and TAPE 2, respectively.

### ⑤ Synchro reverse key (SYNC REV)

Pressing this key activates the synchro reverse dubbing function.

### ⑥ BLANK SCAN key

This key toggles Blank Scan on/off.

### ⑦ Display

This shows tape counters, level meters, etc.

### ⑧ Parallel record key (PARALLEL REC)

This key lets you simultaneously record on both decks.

### ⑨ Dubbing start key (DUB START)

This key is used when copying the contents of a tape from TAPE 1 to TAPE 2, either at normal or high speed.

### ⑩ TAPE 2 compartment

### ⑪ Reverse mode switch (REV MODE)

This switch is used to switch between reverse modes.

### ⑫ TIMER switch

This switch is provided for use with a commercially available audio timer, to allow timer controlled recording or playback.

Normally, leave this switch to the OFF position.

### ⑬ DOLBY NR switch

This switch toggles the Dolby Noise Reduction system on/off. In playback you need to set this switch to the same position as when the recording was made.

### ⑭ EJECT keys

Pressing these keys opens the TAPE 1 and TAPE 2 compartments.

### ⑮ Tape transport control keys

#### RECORD

Pressing this key shifts the corresponding deck to record-pause mode.

#### PAUSE

Pressing this key temporarily stops playback or recording.

#### Recording mute (REC MUTE)

This key is for creating the 4-second blank space needed for proper operation of the Computomatic Program Search (CPS) function.

## 2 – Features of the 202MKIV



Fast-forward/Rewind



Stop of playback/record



Reverse side play/Forward side play

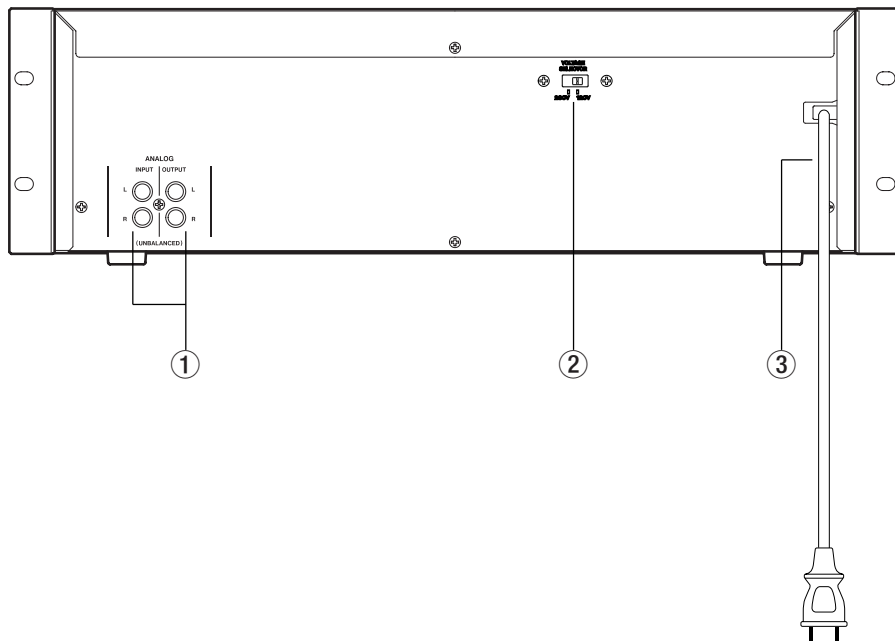
- ⑩ **Headphones jack (PHONES)**  
Plug your headphones into this jack.
- ⑪ **PITCH CONTROL**  
This control is used to vary the playback speed.

- ⑲ **REC LEVEL control**  
This control is used to adjust the recording level.
- ⑲ **MIC jack and level control**  
Insert your microphone into this jack and use the knob to adjust the level of mic input.

### NOTE

*The MIC jack is mono. You cannot use a stereo microphone with this cassette deck.*

## Rear panel



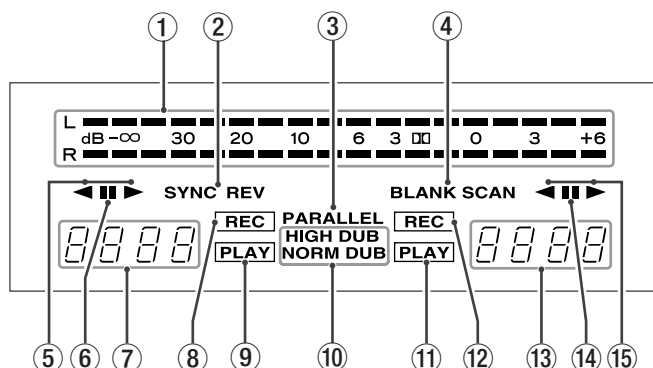
- ① **LINE IN and LINE OUT jacks**  
Use the supplied RCA cables to make connections between this unit and your amplifier. Make sure to connect:  
White plug to White jack (L: left channel)  
Red plug to Red jack (R: right channel)
- ② **VOLTAGE SELECTOR**  
Switches the voltage to either 230 V or 120 V.
- ③ **AC power cord**  
Plug this AC power cord into an AC wall socket.

### NOTE

- *The voltage selector is only available on units for North American market.*

## 2 – Features of the 202MKIV

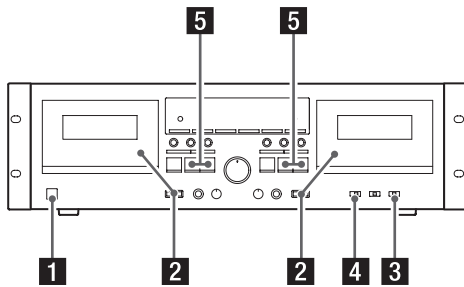
### Display



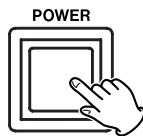
- ① **Peak level meter**  
This shows recording and playback levels.
- ② **SYNC REV**  
This indicator lights when the synchro reverse dubbing function is switched on.
- ③ **PARALLEL**  
This indicator lights to indicate parallel recording is taking place.
- ④ **BLANK SCAN**  
This indicator lights to indicate the corresponding function is switched on.
- ⑤ **Playback/recording direction indicator of TAPE 1 deck**
- ⑥ **Pause indicator**  
This indicator lights when the TAPE 1 deck is temporarily stopped.
- ⑦ **Tape counter of TAPE 1 deck**  
The tape counter indicates the relative position of the tape. You can reset the counter to zero whenever you want.  
  
During a CPS function, the tape counter shows  $\square \text{ F}$  and your specified number of songs to skip ahead or back.
- ⑧ **Record indicator**  
This indicator lights when the TAPE 1 deck is in record mode.
- ⑨ **Play indicator**  
This indicator lights when the TAPE 1 deck is in play mode.
- ⑩ **Dubbing indicator**  
**NORMAL DUB** lights during normal speed dubbing, and **HIGH DUB** lights during high speed dubbing.
- ⑪ **Play indicator**  
This indicator lights when the TAPE 2 deck is in play mode.
- ⑫ **Record indicator**  
This indicator lights when the TAPE 2 deck is in record mode.
- ⑬ **Tape counter of TAPE 2 deck**  
The tape counter indicates the relative position of the tape. You can reset the counter to zero whenever you want.  
  
During CPS operation, the tape counter shows  $\square \text{ F}$  and the number of songs you have specified to skip ahead or back.
- ⑭ **Pause indicator**  
This indicator lights when the TAPE 2 deck is temporarily stopped.
- ⑮ **Playback/recording direction indicator of TAPE 2 deck**

# 3 – Playback


## Playback 1 (either TAPE 1 or TAPE 2)

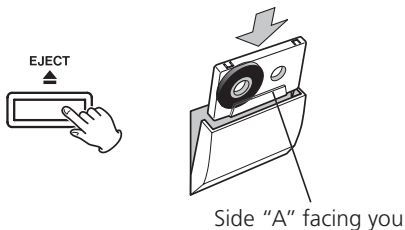


1. Switch on the POWER.



2. Load a pre-recorded tape into the TAPE 1 or 2 deck.

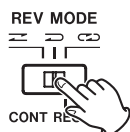
Press the EJECT key () to open the cassette compartment. Insert the cassette tape with its open edge facing down, the desired side facing you. Then, close the cassette compartment by pushing on its front part.



This cassette deck can play back Normal (Type I), Chrome (Type II) and Metal (Type IV) tapes.

For the sake of simplicity, we refer to the tape side facing you as Side “A” and to the tape side facing away as Side “B”. When you insert a cassette with Sides “A” and “B” reversed, Side “A” should read Side “B” and Side “B” should read Side “A”.


3. Select a reverse mode setting using the REV MODE switch.



You have a choice of three settings:

: **One way mode**

Set the switch to this position to playback only one side.

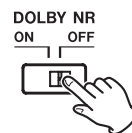
: **Two way mode**

Set the switch to this position to play back both sides of the tape in one session. When playback reaches the end of side “A”, the playback direction is automatically reversed, and playback continues on side “B”.

: **Repeat mode**

Set the switch to this position. Both sides of the tape in the Tape 1 deck is played back continuously until you stop the operation, and both sides of the tape in the Tape 2 deck is played back as many as 5 times.

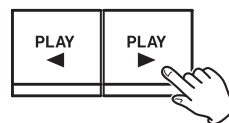
4. Set the DOLBY NR switch.






Set the switch to the ON position when playing back tapes recorded with Dolby NR.

To play tapes recorded without Dolby NR, set the switch to the OFF position.




5. Press the PLAY key ( or ).



Pressing the  key starts playback from side “A”.

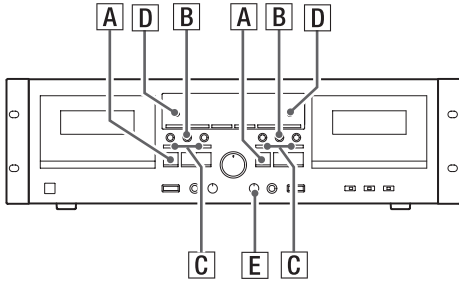
Playback stops when reaching the end of side “A” if the reverse mode is set to . If the reverse mode is set to , playback continues on side “B”, stopping at the end of side “B”. If the reverse mode is set to , playback cycles through both tape sides 5 times.

Pressing the  key starts playback from side “B”.

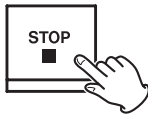
Playback stops when reaching the end of side “B” if the reverse mode is set to either  or . If the reverse mode is set to , side “B” is played back, and then playback cycles through both tape sides 4 times.

# 3 – Playback

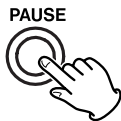
## Playback 2 (either TAPE 1 or TAPE 2)



- A. To stop playback, press the STOP key (■).



- B. To stop playback temporarily, press the PAUSE key. To resume playback, press the PAUSE key again, or press the PLAY key (◀ or ▶).



While playback is paused, pressing the PLAY key whose direction is opposite to the indicator (◀ or ▶) on the display, will switch the playback direction. This does not release the pause function. Press PAUSE or the same play key (◀ or ▶) again to start playback on the other side of the tape.

- C. Fast forward/Rewind

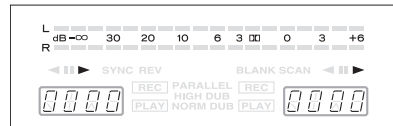
Press the ◀◀ or ▶▶, key while in stop mode to fast wind the tape.



To stop the fast winding tape, press the STOP key (■).

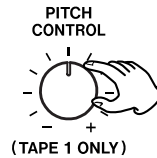
- D. Tape counter

Press the COUNTER RESET key to reset the tape counter to 0000. You can use this function for easy relocation of any desired point on the tape.



- E. Pitch control (TAPE 1 deck only)

This control varies the pitch of the music during playback (This control does not work during recording or dubbing).



Turning the PITCH CONTROL knob clockwise increases the playback speed and raises the pitch up to +10%.

Turning the PITCH CONTROL knob counter-clockwise reduces the playback speed and lowers the pitch by a maximum of -10%.

- F. To listen through headphones

### WARNING

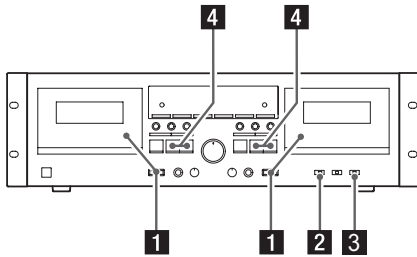
*There is no level control for the headphones output. Beware that sudden loud sounds may occur depending on recorded material. You should avoid prolonged exposure to high volume sound as this can damage your hearing.*

Plug your headphones into the PHONES jack, and put on the headphones.


Plugging into the PHONES jack does not disable the line outputs.

# 3 – Playback

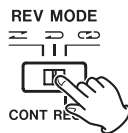
## Continuous playback





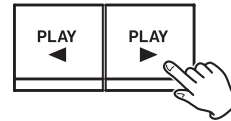
Continuous playback can be performed between TAPE 1 and TAPE 2. When one tape is played back to the end, the other tape automatically starts playback, in a relay fashion.

1. Load pre-recorded tapes into the TAPE 1 and TAPE 2 compartments.
2. Set the DOLBY NR switch.
3. Set the REV MODE switch to the  (CONT PLAY) position.

Always set the DOLBY NR switch to the same position that was used for recording.

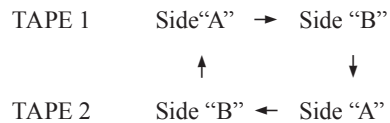


4. Press the PLAY key ( or ) of the deck you want to start first.

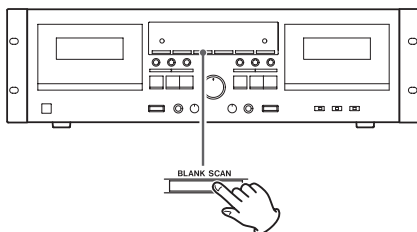


You can start continuous playback from either TAPE 1 or TAPE 2.



Playback cycles through four tape sides as follows, and will continue until you stop the operation.



## Blank scan



The Blank Scan function detects 10 seconds or more of blank and skips over it.

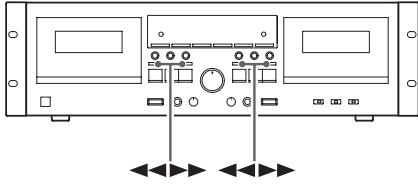
To activate this function, press the **BLANK SCAN** key followed by the desired play key ( or ).

The **BLANK SCAN** indicator lights when this function is activated.

To disable this function, press the **BLANK SCAN** key again. The indicator turns off.

Very quiet passages in music are likely to be identified as blanks. If you are worried about this, switch off Blank Scan.

## Song search



This cassette deck is equipped with the Computomatic Program Search (CPS) function. This function detects blank spaces (longer than 4 seconds) between songs and fast-winds the tape in the forward or backward direction skipping over the specified number of songs, thus allowing direct access to the beginning of a desired song. CPS can skip up to 20 songs ahead of or behind the current song.

When you press the ◀◀ or ▶▶, key during playback, the tape counter reads C F 01 and the tape starts running at high speed in the pressed direction. Each time you press the same direction key, the displayed number increases by one integer. The number decreases as you press the opposite direction key.

If you are listening to a song and want to go back to the previous song, press the locator key opposite to the playback direction twice. Pressing it just once will take you back to the beginning of the current song. Each additional press of the key will take you back one song.

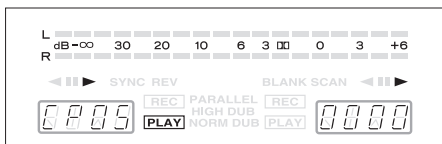


the tape's forward side (facing you) is playing; or side "B" → side "A" → side "B" if CPS is started when the tape's reverse side (facing away) is playing)

### NOTE

*The CPS function may not work properly if blanks between songs are less than 4 seconds long or contain noise.*

### Display of TAPE 1:

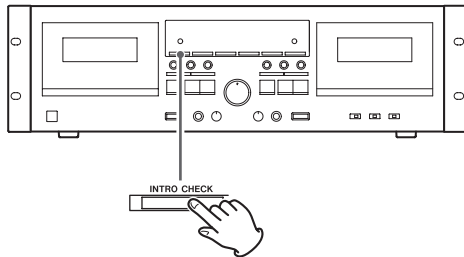


The search range varies depending on REV MODE switch settings.

- ☐: Only one side of tape.
- ☐: Both sides of the tape when searching in the same direction as playback. Or, only one side of the tape when searching in the opposite direction as playback.
- ☐: Both sides followed by the first side (side "A" → side "B" → side "A" if CPS is started when

# 3 – Playback

## Intro check



Intro Check plays the first 15 seconds of each song, allowing you to quickly find the song you are looking for.

Press the **INTRO CHECK** key during playback or stop. The tape will fast wind in the same direction as playback. When you find the desired song, press the **INTRO CHECK** key again to start playback.

The tape counter reports how many songs have been intro-checked so far.

The Intro Check range varies depending on **REV MODE** switch settings:

- ☰: Checks one side of the tape.
- ☷: Checks both sides of the tape.
- ☸: Checks both sides of tape then double checks the first side (side “A” → side “B” → side “A” if Intro Check is started on the tape’s forward side (facing you); or side “B” → side “A” → side “B” if Intro Check is started on the tape’s reverse side (facing away)).

Activating the Intro Check function during normal playback will cause it to skip to the next song: playback of the current song is interrupted midway.

The tape automatically stops upon completion of the check operation.

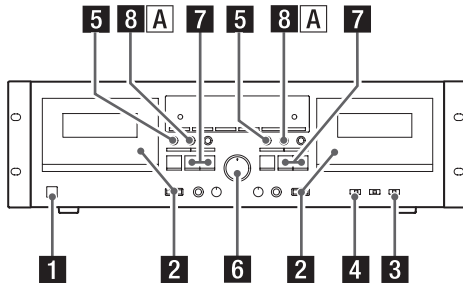
### NOTE

- **Make sure that the TAPE 1 compartment is empty when starting Intro Check on TAPE 2.**
- **The Intro Check function may not work properly if blanks between songs are less than 4 seconds long or contain noise.**

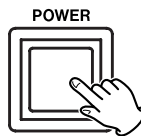


# 4 – Recording

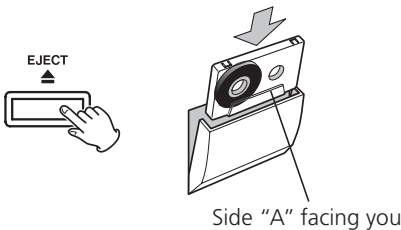
## Recording (either TAPE 1 or TAPE 2)




1. Turn on the power.



2. Load a tape for recording.

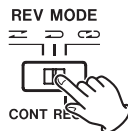



Press the EJECT key () to open the cassette compartment. Insert the cassette tape with its open edge facing down, side "A" facing you. Then close the cassette compartment by pushing in the cassette door until it clicks shut.



### NOTE

- If the erasure prevention tabs of the loaded cassette tape have been broken off, stick a piece of adhesive tape over the hole(s).
- With this cassette deck you can use Normal (Type I) and Chrome (Type II) tapes for recording.

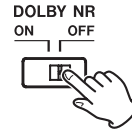
3. Set the REV MODE switch.



: Set to this position to record on one side only.

 or : Set to either of these positions to record on both sides.

4. Set the DOLBY NR switch.





Set the switch to **ON** to record with Dolby Noise Reduction.

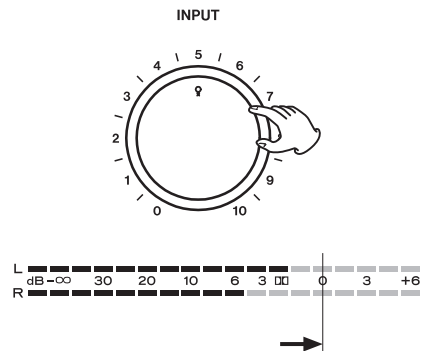
Set to **OFF** to record without Dolby Noise Reduction.

5. Press the RECORD key.



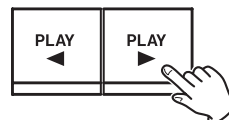
The deck enters the record-pause mode.  and  will light on the display.





6. Adjust the recording level.



Start playback of your recording source and set the REC LEVEL control knob so that the level meter indicates "0 dB" at peaks.

7. Set the recording direction.



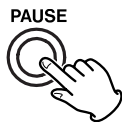
Recording is made in the direction indicated by the play/record direction indicator (/). To change this direction, press the opposite direction play key ( or ).





### NOTE

*Be careful not to press play key whose arrow points in the same direction as the indicator. Doing so will start recording.*

# 4 – Recording

8. When everything is ready, start recording by pressing the PAUSE key or the play key whose arrow points in the same direction as the indicator.



To record on both tape sides, set the **REV MODE** switch to  or  and press the forward play key () . If you press the reverse **PLAY** key () , recording will be done only on side “B”.

To stop recording, press the stop key () .



- A To stop recording temporarily

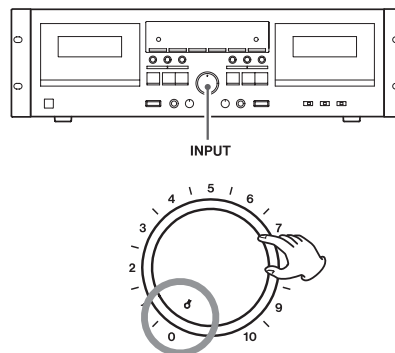


Press the **PAUSE** key to stop recording temporarily.



A second press of the key resumes recording.

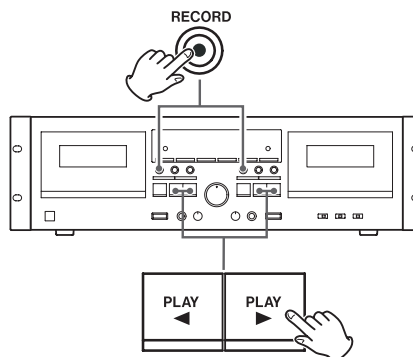
## To erase recordings

When you make a recording, the tape is overwritten (previous recording is erased). To erase a tape without making a new recording, set the **REC LEVEL** control to the minimum (0) position and press the **RECORD** key followed by the **PLAY** key ( or ).



## Quick record start

Hold down the **RECORD** key and press the **PLAY** key ( or  ) corresponding to the direction you want the tape to run.

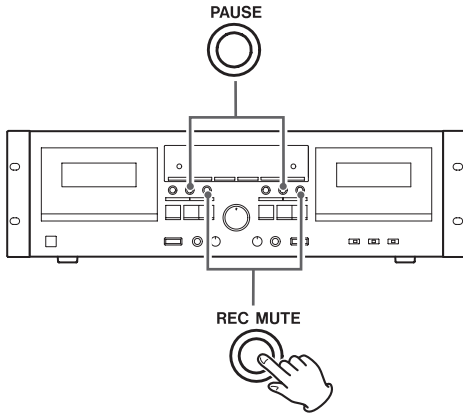


# 4 – Recording

## Recording silence

Use this function to create blanks between songs for proper operation of the Computamatic Program Search (CPS) function.

Press the **REC MUTE** key when recording reaches the desired point. No signal is recorded for about 4 seconds and then the deck enters the record-pause mode. To resume recording, press the **PAUSE** key.



### ■ To create a blank of more than 4 seconds long

Hold down the **REC MUTE** key for the desired length of time. When you release the key, the deck enters the record-pause mode.

### ■ To create a blank of less than 4 seconds long

Press the **PAUSE** key within 3 seconds of pressing the **REC MUTE** key.

#### NOTE

*If you press the **REC MUTE** key when the deck is in the record-pause mode, no signal is recorded for about 4 seconds, and then the deck shifts back to the record-pause mode.*

## Mic mixing recording

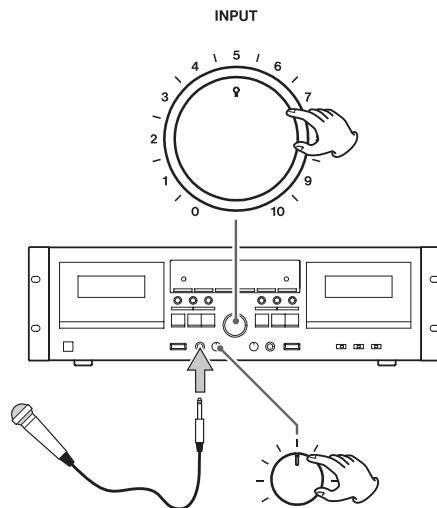
This function allows you to record your voice and another audio source together on a cassette tape.

The mic sound is fed into both the Left and Right channels so it is located in the center of the stereo image.

You have the choice of either selecting the audio source you want on the amplifier connected to the **LINE IN** jacks of the deck, or plugging the desired source directly into the deck's **LINE IN** jacks.

#### NOTE

- *To prevent feedback (howling), disable the speaker outputs from the amplifier. Use headphones to monitor recording.*
- *This cassette deck is not compatible with stereo mics. Always use a mono mic.*

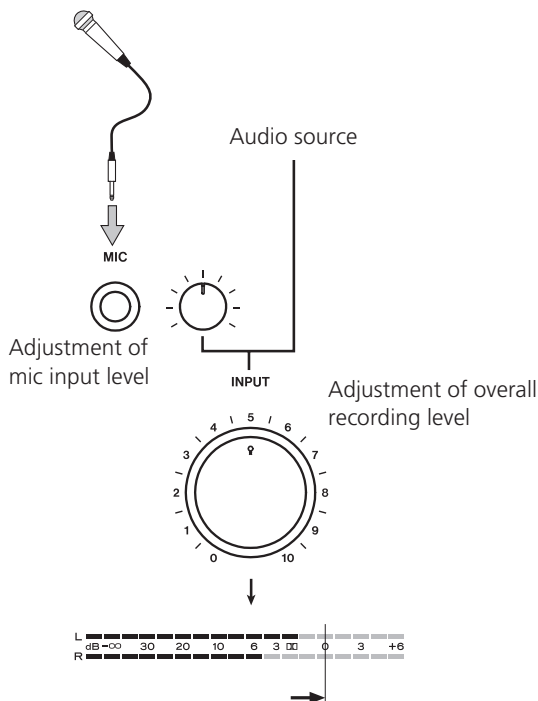


# 4 – Recording

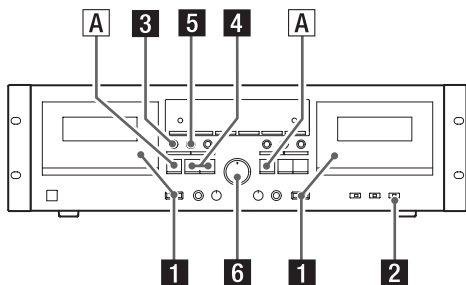
## Adjusting mix recording level

To record a mix of voice and another audio source, you need to adjust the mic input level and then fine tune the overall recording level.

1. Plug your microphone into the MIC jack on the front panel.
2. Start playing the audio source, switch the deck into the record-pause mode (by pressing the RECORD key), and temporarily adjust the REC LEVEL control to a relatively low level.
3. Speak into the mic and adjust the MIC level control to get the optimum balance between your voice and the other source.
4. Fine tune the overall recording level using the REC LEVEL control so that the level meter reads 0 dB at peaks.
5. When everything is ready, start recording as instructed earlier in this manual.

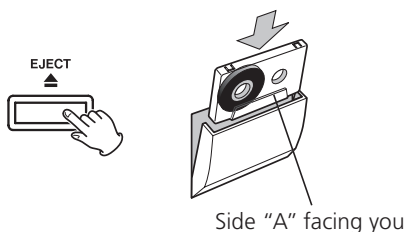


## Continuous recording

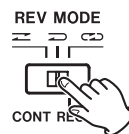


This function allows you to make uninterrupted recordings on both sides of two tapes.

1. Load cassette tapes for recording into the TAPE 1 and TAPE 2 compartments.



2. Set the REV MODE switch to the (CONT REC/PLAY) position.



Set the DOLBY NR switch to the ON position if you want to.

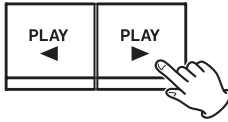
3. Press the TAPE 1 deck's RECORD key.



The deck enters the record-pause mode. and will light on the display. Now adjust the recording level and any other settings, as required.

# 4 – Recording

## 4. Check the recording direction.

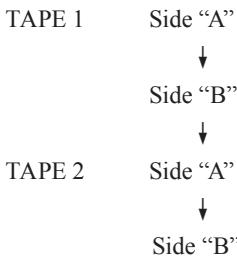


If an indicator is lit which points in the direction opposite to the one desired, change the direction by pressing the opposite direction play key (◀ or ▶).

### NOTE

*Be careful not to press play key whose arrow points in the same direction as the indicator. Doing so will start recording.*

Recording is done in this order:

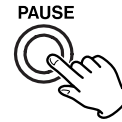


You can start recording from side “B” of TAPE 1. But if you do so, side “A” of this tape is not recorded: when recording reaches the end of side “B”, the TAPE 2 deck starts recording.

### NOTE

*The TAPE 2 deck always starts recording from side “A”.*

## 5 Start recording.



Recording starts when you press the PAUSE key or the play key whose arrow points in the same direction as the indicator on the TAPE 1 deck.

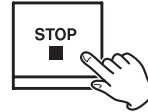
When recording is finished on the TAPE 1 deck, the TAPE 2 deck automatically starts recording.

### NOTE

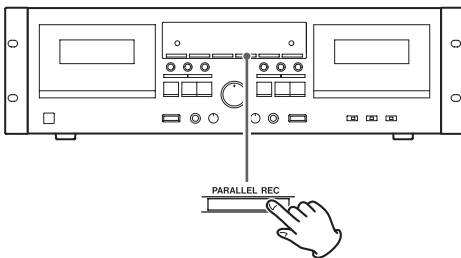
*The transition from TAPE 1 to TAPE 2 takes several seconds.*

### A. To stop recording

Press the STOP key (■) of the deck which is currently recording.



## Parallel recording



This function allows you to record the same material simultaneously on both TAPE 1 and TAPE 2.

**Load tapes into both decks and press the PARALLEL REC key to start recording.**

Before starting recording, check and correct the following by performing steps 1 – 7 on page 16 such as Record direction, Reverse mode setting, Dolby NR setting, Recording level, etc.

When everything is ready, get back into stop mode if the deck is in another mode.

During parallel recording, the **PARALLEL** indicator is lit on the display.

During parallel recording, only the following keys work:

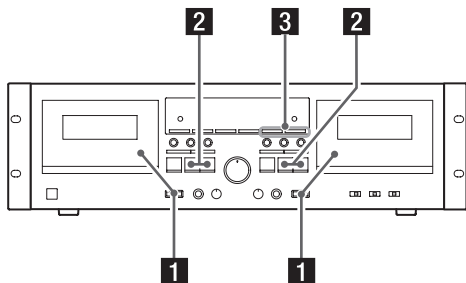
TAPE 1 deck: **STOP**

TAPE 2 deck: **PAUSE, REC MUTE, STOP**

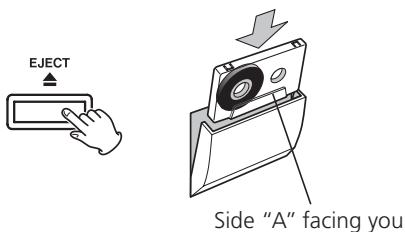
Pressing the **STOP** key (■) on either deck stops both tapes at once.

# 4 – Recording

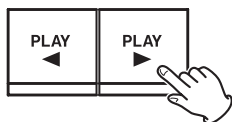
## Dubbing (from TAPE 1 to TAPE 2)



1. Insert a cassette tape for playback into the TAPE 1 compartment and a cassette tape for recording into the TAPE 2 compartment.



2. Set the tape transport direction on both decks.



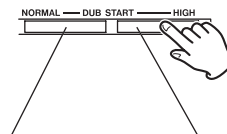
If the play/record direction indicator (◀▶) on the display points in the direction opposite to the one desired, press the **PAUSE** key followed play key (◀ or ▶) corresponding to the desired direction.

After changing the tape transport direction, be sure to press the **STOP** key (■) to get out of the pause mode.

### NOTE

- Be careful not to press play key whose arrow points in the same direction as the indicator. Doing so will start playback.
- Set the **REV MODE** switch as required.
- You don't need to adjust the recording level or set the **Dolby NR** system, as both depend on the pre-recorded source tape.

3. Press either **DUB START** key to start dubbing.



For normal speed dubbing, press the **NORMAL** key. For high-speed dubbing, press the **HIGH** key.

### NOTE

*High-speed dubbing makes a copy at approximately two times the normal speed. We recommend normal speed dubbing for best audio quality.*

During dubbing, either the **NORM DUB** or **HIGH DUB** indicator lights steadily on the display.

During normal speed dubbing, only the following keys work:

TAPE 1 deck: **STOP**

TAPE 2 deck: **PAUSE**, **REC MUTE**, **STOP**

During high-speed dubbing, only the **STOP** key (■) works.

Pressing the **STOP** key (■) on either deck stops both tapes at once.

Neither **DUB START** key works immediately after the tape is fast-forwarded or rewound to the end.

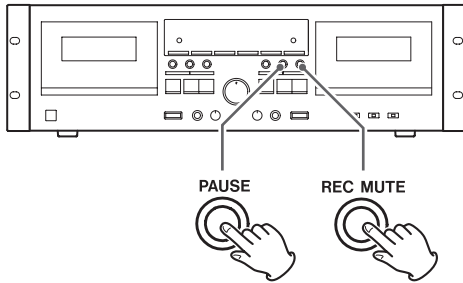
Wait for 5 seconds or more before pressing the key.

### NOTE

- During dubbing, the pitch control does not work.
- Recording level adjustment is not necessary for dubbing, as the recording level is set to the level of the pre-recorded tape. Operating the **REC LEVEL** control, before or after starting dubbing, has no effect at all.
- If a nearby television set is switched on during high-speed dubbing, a high-pitched interference noise may be recorded on the tape. To avoid this, either perform dubbing at normal speed, or turn off the television.

# 4 – Recording

## Editing during dubbing (only at normal speed)



You can prevent unwanted songs or unnecessarily long blanks from being dubbed, or you can create blanks between songs.

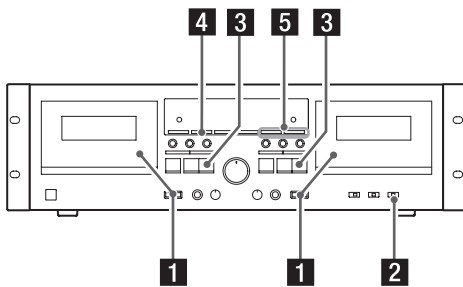
1. At the desired point during dubbing, press the **PAUSE** key on the **TAPE 2** deck. The **TAPE 2** deck only enters the pause mode, allowing you to let unwanted songs go by.

To create a 4-second blank between songs, press the **REC MUTE** key on the **TAPE 2** deck. The **TAPE 2** deck temporarily stops after recording no signal for 4 seconds.

The **TAPE 1** deck continues playback when the **TAPE 2** deck is in pause mode.

2. To resume dubbing, press the **PAUSE** key on the **TAPE 2** deck.

## Synchro reverse dubbing (from TAPE 1 to TAPE 2)



When you use this dubbing function and a shorter tape reaches the end of side “A”, it momentarily stops until the other tape reaches the end of side “A”. Then both tapes automatically switch over to side “B” and recording and playback re-start simultaneously.

### If TAPE 1 is shorter than TAPE 2

When **TAPE 1** reaches the end of side “A”, **TAPE 1** stops and **TAPE 2** enters the “blank recording” mode.

When **TAPE 2** reaches the end, both **TAPE 1** and **II** are reversed simultaneously. **TAPE 1** starts reverse play and **TAPE 2** resumes recording.

When **TAPE 1** reaches the end of side “B”, both **TAPE 1** and **II** stop simultaneously.

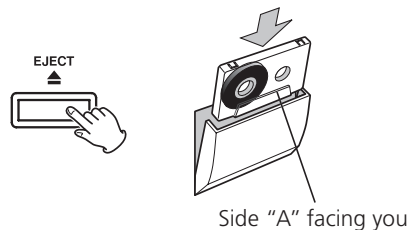
### If TAPE 1 is longer than TAPE 2

When **TAPE 2** reaches the end of side “A”, **TAPE 1** enters the record-pause mode, while **TAPE 1** continues playback.

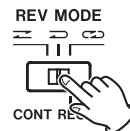
When **TAPE 1** reaches the end, **TAPE 1** starts reverse play and **TAPE 2** starts recording.

When **TAPE 1** reaches the end of side “B”, both **TAPE 1** and **II** stop simultaneously.

1. Insert a cassette tape for playback into the **TAPE 1** compartment and a cassette tape for recording into the **TAPE 2** compartment.



2. Set the **REV MODE** switch to the two-way (↔) position.



3. Check the recording direction of both decks.



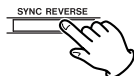
If the reverse direction indicator (◀) lights on the display, press the **PAUSE** key followed by the forward play key (▶). Then, be sure to press the **STOP** key (■) to get out of the pause mode.

## 4 – Recording



### NOTE

- *Be careful not to press play key whose arrow points in the same direction as the indicator. Doing so will start playback.*
- *You don't need to adjust the recording level or set the Dolby NR system, as both depend on the pre-recorded source tape.*

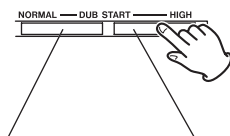
- 4** Press the SYNC REV key.



The **SYNC REV** indicator will light on the display.

The **SYNC REV** key does not work if the reverse mode is set to any positions other than  or if the transport direction of both decks is not set to forward (.

- 5** Press either DUB START key to start dubbing.



For normal speed dubbing, press the **NORMAL** key. For high-speed dubbing, press the **HIGH** key.


High-speed dubbing makes a copy at approximately two times the normal speed. We recommend normal speed dubbing for best audio quality.

During dubbing, either the **NORM DUB** or **HIGH DUB** indicator lights steadily on the display.

During normal speed dubbing, only the following keys work:

TAPE 1 deck: **STOP**

TAPE 2 deck: **PAUSE, REC MUTE, STOP**

During high-speed dubbing, only the **STOP** key () works.

Pressing the **STOP** key () on either deck stops both tapes at once.

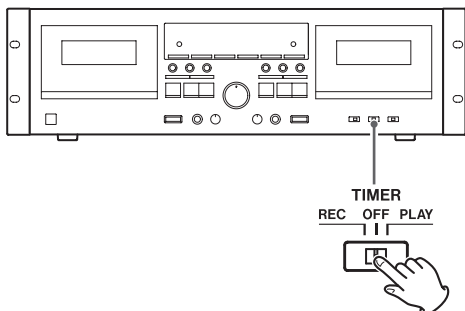
Neither **DUB START** key works immediately after the tape is fast-forwarded or rewound to the end.

Wait for 5 seconds or more before pressing the key.

### NOTE

- *During dubbing, the pitch control does not work.*
- *Recording level adjustment is not necessary for dubbing, as the recording level is set to the level of the pre-recorded tape. Operating the **REC LEVEL** control, before or after starting dubbing, has no effect at all.*
- *If a nearby television set is switched on during high-speed dubbing, a high-pitched interference noise may be recorded on the tape. To avoid this, either perform dubbing at normal speed, or turn off the television.*

## Timer playback




## Playback

1. Connect this unit and stereo system to a commercially available audio timer.
2. Set the power switch of all components to **ON**.
3. Load a prerecorded cassette tape in **TAPE 1** or **II**.

You can also insert tapes into both decks. In this case, **TAPE 1** starts first.




# 4 – Recording

4. Set the REV MODE switch to the required position.  
To let both decks play continuously, set the REV MODE switch to the  (CONT PLAY) position.
5. Set the DOLBY NR switch.
6. Set the TIMER switch to the PLAY position.
7. Set the audio timer to the required start (power on) and stop (power off) times. When this set-

## Timer-controlled recording

(Example: Recording a broadcast program)

1. Connect this unit and stereo system to a commercially available audio timer.
2. Set the POWER switch of all components to ON.
3. Load a recordable cassette tape(s) in TAPE 1 or II (or both decks for continuous recording).
4. Set the REV MODE switch to the required position.  
For continuous recording on both decks, set the REV MODE switch to the  (CONT PLAY) position.
5. Set the DOLBY NR switch as required.
6. Tune in a broadcasting station to be recorded.
7. Press the RECORD key of the deck to be recorded to set the deck to the record-pause mode.
8. Adjust the recording level.
9. Set the TIMER switch to the REC position.
10. Set the audio timer to the required start (power on) and stop (power off) times. When this setting is completed, the power to all components will be switched off.

When the preset start time is reached, power will be supplied and recording will start automatically.

Recording automatically starts also by simply pressing on the POWER switch of this deck. When you don't use the timer for a while, be sure to set the TIMER switch back to the OFF position to prevent accidental erasure of your important tape.

Recording always starts from side "A".

ting is completed, the power to all components will be switched off.

When a preset start time is reached, power will be supplied and playback will start automatically.

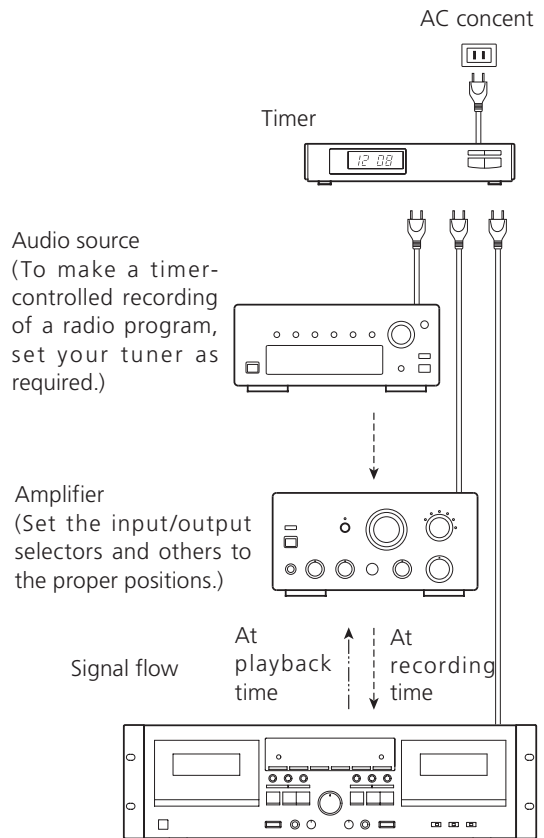
Playback automatically starts also by simply pressing on the POWER switch of this deck. When you don't use the timer, set the TIMER switch to the OFF position.

Playback always starts from side "A".

## Connections with a timer

Connecting a commercially available timer to your audio setup lets you wake up to your favorite cassette tape, or start recording at specified times.

Refer to the illustration below, and connect your audio components.



# 5 – Reference and specifications

## Troubleshooting

If you think that there is something wrong with this cassette deck, make the checks listed below before contacting a repair service. In some cases the problem may lie with another component. Check all components.

If the problem cannot be solved with any of the following checks, contact your nearest TEAC authorized service center or your dealer for help.

### Cannot switch on the power

- ➔ Check the connection to the AC power supply. Check and make sure the AC source is not a switched outlet and that, if it is, the switch is turned on. Make sure there is power to the AC outlet by plugging another item such as a lamp or fan into the outlet.

### No sound

- ➔ Check the connection to the amplifier.
- ➔ Check the amplifier settings.

### Noisy playback

- ➔ Keep away from equipment that generates a magnetic field, such as a TV or microwave oven.

### Transport control keys don't work.

- ➔ Load a cassette tape if not loaded.
- ➔ If a cassette tape is loaded, reinsert it.

### The cassette compartment does not close.

- ➔ The cassette is not properly loaded. Reinsert it.

### Poor sound quality

- ➔ Clean the heads.
- ➔ Check that the **Dolby NR** switch is set to the same position as when recording was made.




### Cannot record

- ➔ If the erasure prevention tabs on top of the cassette are broken off, cover the holes using pieces of adhesive tape.
- ➔ Check the connection to the amplifier and to the source equipment.
- ➔ Set the amplifier input/output selectors correctly.
- ➔ Check the recording level setting.



### Playback speed seems somewhat fast or slow

- ➔ Check the pitch control setting.


### Auto reverse does not occur

- ➔ Set the **REV MODE** switch to  or .
- ➔ If the **REV MODE** switch is set to , start playback from the tape side facing you (side "A").

### Synchro reverse dubbing is not possible.

- ➔ Set the **REV MODE** switch to the  position.
- ➔ Load cassettes into both decks.
- ➔ Set the tape transport direction to  on both decks.

### Continuous play/record is not possible

- ➔ Set the **REV MODE** switch to the  position.
- ➔ Load cassettes into both decks.
- ➔ To make a continuous recording, start with TAPE 1.

### NOTE

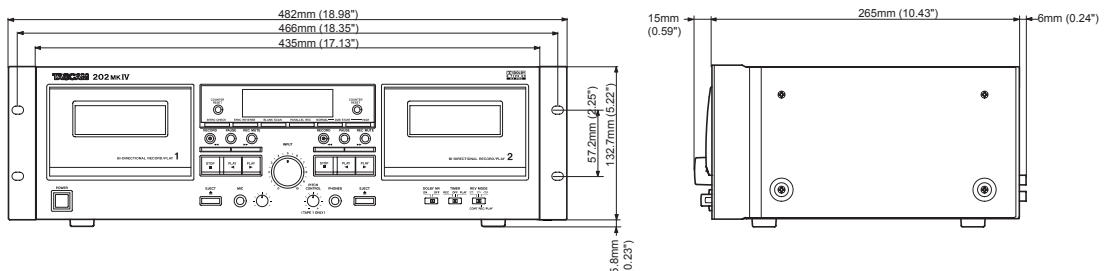
*This cassette deck operates on a delicate micro-computer and there may be occasions when the deck does not function as expected because of external noise or interference. Problems you encounter on such occasions may be cured by turning off the power, waiting for 1 minute or more, then turning the power back on.*

# 5 – Reference and specifications

## Specifications

Track System	4-track, 2-channel stereo
Heads Construction	Record/playback head x 1 (each deck) Erase head x 1 (each deck)
Tape Speed	4.8 cm/sec 9.5 cm/sec (high-speed dubbing mode)
Pitch Control	±12%
Fast Winding Time	approximately 110 sec (C-60 tape)
Motor	DC servo motor (capstan)
Wow and Flutter	0.09% (WRMS) ±0.1%
Frequency Response (Overall)	
Metal tape (Type IV, playback only)	30 Hz-19 kHz
Chrome tape (Type II)	30 Hz-18 kHz
Normal tape (Type I)	30 Hz-17 kHz
Signal to Noise Ratio (Overall)	58 dB (Dolby NR OFF, nominal recording level) 69 dB (Dolby NR ON, CCIR-ARM)
Line Input (RCA jack)	100 mV (input impedance 50k ohms)
Mic Input (mono 1/4" Phone jack)	0.38 mV (input impedance 200k ohms)
Line Output (RCA jack)	0.46 V (load impedance 50k ohms or more)
Headphones Output (stereo 1/4" Phone jack)	1 mW/32 ohms
Power Requirements	
U.S.A./Canada	120 V AC, 60 Hz
U.K./Europe	230 V AC, 50 Hz
Australia	240 V AC, 50 Hz
Power Consumption	22 W (U.S.A./Canada) 22 W (U.K./Europe) 22 W (Australia)
Dimensions (including protruding parts)	482 (W) x 138.5 (H) x 286 (D) mm (18.95" x 5.45" x 11.26")
Weight	5.5 kg (12.13 lb)

## Dimensional drawing



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