Technics
Stereo cassette deck
RS-TR474/RS-TR373
Operating Instructions

The photograph shows the RS-TR474 model.

Note:
The “EB” indication shown on the packing case indicates United Kingdom.

Before connecting, operating or adjusting this product, please read these instructions completely.
**Dear Customer**

Thank you for purchasing this Technics product. For optimum performance and safety, please read these instructions carefully.

These operating instructions are applicable to the RS-TR474 and RS-TR373 models. These operating instructions, however, fundamentally explain the operation of RS-TR474 model.

(For areas except United Kingdom, Europe, Australia and N.Z.)

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**CAUTION:**

The AC voltage is different according to the area. Be sure to set the proper voltage in your area before use.

(For details, please refer to the page 6.)

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(For United Kingdom)

("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 5-ampere fuse is fitted in this plug. Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere 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 plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover the plug must not be used until a replacement cover is obtained. A replacement fuse cover can be purchased from your local dealer.

CAUTION!
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 INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below. If in any doubt please consult a qualified electrician.

IMPORTANT
The wires in this 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.

Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol .

Before use
Remove the connector cover as follows.

How to replace the fuse
1. Remove the fuse cover with a screwdriver.

2. Replace the fuse and attach the fuse cover.
Suggestions for safety

Placement
Avoid placing the unit in areas of:
• direct sunlight
• high temperature
• high humidity
• excessive vibration
• uneven surfaces. (Place the unit on a flat level surface).
Such conditions might damage the cabinet and/or other compo-
nent parts and thereby shorten the unit's service life.

Ventilation
• Place the unit in a well ventilated position at least 10 cm's away
  from wall surfaces etc.
• Ensure that curtains and similar materials do not obstruct the
  ventilation holes.

Stacking
Never place heavy items on top of the unit or the power cord.

Voltage
• It is very dangerous to use an AC power source of high voltage
  such as for an air conditioner.
  A fire might be caused by such a connection.
• A DC power source can not be used.
  Be sure to check the power source carefully, especially on a
  ship or other place where DC is used.

Power cord protection
• Avoid cuts, scratches or poor connection of the AC mains cord,
  as this may result in fire or electric shock hazard.
  Excessive bending, pulling or slicing of the cord should also be
  avoided.
• Do not pull on the cord when you are disconnecting the power,
  as this could cause an electric shock. Grasp the plug firmly
  when you disconnect the power supply.
• Never touch the plug with wet hands or a serious electric shock
  could result.

Foreign materials
• Ensure that no foreign objects, such as needles, coins,
  screwdrivers etc, accidentally fall into the unit or through the
  ventilation holes.
Otherwise, a serious electric shock or malfunction could occur.
• Be extremely careful about spilling water or liquid onto the
  unit, as a fire or electric shock could occur.
  (Disconnect the power plug and contact your dealer imme-
  diately if this occurs.)
• Avoid spraying insecticides onto the unit as they contain flan-
mable gases which can be ignited.
• Insecticides, alcohol, paint thinner and similar chemicals
  should never be used to clean the unit as they can cause flaking
  or cloudiness to the cabinet finish.

Maintenance (See page 19.)
Clean the cabinet, panel and controls with a soft cloth lightly
moistened with mild detergent solution.
Do not use any type of abrasive pad, scouring powder or solvent
such as alcohol or benzine.

Service
• Never attempt to repair, disassemble or reconstruct the unit if
  there seems to be a problem.
  A serious electric shock could result if you ignore this precau-
tionary measure.
• If a problem occurs during operation (the sound is interrupted,
  indicators fail to illuminate, smoke is detected, etc) contact
  your dealer or Authorised Service Center immediately.
• Disconnect the power supply if the unit will not be used for a
  long time. Otherwise the operation life could be shortened.
When any of the numbers indicated below is repeated more than once (for example, ③), the number indicated on the left is the control for Deck 1 and that indicated on the right is for Deck 2.

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Ref. page</th>
</tr>
</thead>
<tbody>
<tr>
<td>①</td>
<td>Power &quot;STANDBY (ON)&quot; switch (POWER, STANDBY (ON))</td>
<td>7</td>
</tr>
<tr>
<td>②</td>
<td>Cassette holder</td>
<td></td>
</tr>
<tr>
<td>③</td>
<td>Remote control signal receptor (Refer to &quot;About the remote control function&quot; on page 8)</td>
<td></td>
</tr>
<tr>
<td>④</td>
<td>&quot;STANDBY&quot; indicator (STANDBY) When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.</td>
<td></td>
</tr>
<tr>
<td>⑤</td>
<td>Open/close button (△ OPEN/CLOSE)</td>
<td>7</td>
</tr>
<tr>
<td>⑥</td>
<td>Counter reset button (COUNTER RESET)</td>
<td>9,10</td>
</tr>
<tr>
<td>⑦</td>
<td>Recording-balance control (BALANCE) RS-TR474 only</td>
<td>12</td>
</tr>
<tr>
<td>⑧</td>
<td>Display</td>
<td></td>
</tr>
<tr>
<td>⑨</td>
<td>Recording-level control (REC LEVEL)</td>
<td>13</td>
</tr>
<tr>
<td>⑩</td>
<td>Auto tape calibration button (ATC) RS-TR474 only</td>
<td>12</td>
</tr>
<tr>
<td>⑪</td>
<td>Record button (REC)</td>
<td>12</td>
</tr>
<tr>
<td>⑫</td>
<td>Automatic-record-muting button (AUTO REC MUTE)</td>
<td>15</td>
</tr>
<tr>
<td>No.</td>
<td>Name</td>
<td>Ref. page</td>
</tr>
<tr>
<td>-----</td>
<td>------</td>
<td>-----------</td>
</tr>
<tr>
<td>⑬</td>
<td>Pause button (II PAUSE)</td>
<td>7</td>
</tr>
<tr>
<td>⑭</td>
<td>Dolby noise-reduction button (DOLBY NR)</td>
<td>7</td>
</tr>
<tr>
<td>⑮</td>
<td>Reverse-mode select button (REVERSE MODE)</td>
<td>7,8</td>
</tr>
<tr>
<td>⑯</td>
<td>For RS-TR474 Rewind/fast-forward search buttons ( HttpHeaders</td>
<td>10,11</td>
</tr>
<tr>
<td>For RS-TR373 Rewind/fast-forward buttons ( HttpHeaders</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>⑰</td>
<td>Reverse-side playback button (△)</td>
<td>7</td>
</tr>
<tr>
<td>⑱</td>
<td>Stop button (■)</td>
<td>7</td>
</tr>
<tr>
<td>⑲</td>
<td>Forward-side playback button (▲)</td>
<td>7</td>
</tr>
<tr>
<td>⑳</td>
<td>Synchro-start button (SYNCHRO START)</td>
<td>16</td>
</tr>
<tr>
<td>㉑</td>
<td>Tape-to-tape recording-speed button (SPEED)</td>
<td>16</td>
</tr>
<tr>
<td>㉒</td>
<td>Headphones jack (PHONES) RS-TR474 only</td>
<td>8</td>
</tr>
</tbody>
</table>
Either normal, CrO₂ or metal type cassettes can be used.

The procedures described below are an example of playback on Deck 1.

1. **Press POWER.** (The unit will switch on.)

2. **Press OPEN/CLOSE, and then insert the cassette tape.** Press again to close the cassette holder.

   Tape opening facing downward.

   When the cassette holder is open, pressing ◄ or ► will close the holder and begin the desired function.

3. **Press DOLBY NR to select the appropriate noise-reduction system.**

   Each time the button is pressed, the indicators will change in the order: B → C → off.

   Select the same type as that used for recording. When playing back a tape which was not recorded using a Dolby NR system, press so that the indicators go off.

4. **Press REVERSE MODE to select the appropriate reverse mode.**

   Each time the button is pressed, the indicator will change in the order: 
   - ◄ : One side only.
   - ◄ ◄ : Both sides repeatedly (up to 8 times).
   - ◄ ◄ ◄ : Both sides, once only.
   (Refer to page 8.)

5. **Press ► or ◄. (Playback will begin.)**

   - ◄ : To begin from the reverse side.
   - ◄ : To begin from the forward side.

   To play back on Deck 2, in steps 2 and 5 above, press the buttons ( 2 and 5 ) for Deck 2.

   To temporarily stop playback
   (Deck 2 only)  **Press II.**

   The "PLAY" indicator will flash.

   Press once again to resume playback.

   To stop playback  **Press ■.**
Reverse function

The reverse function on this unit has three modes (←, ↔, ↔). Read the descriptions below and select the mode as desired. (Refer to step 4 on page 7.)

<table>
<thead>
<tr>
<th>Mode</th>
<th>Tape travel</th>
</tr>
</thead>
<tbody>
<tr>
<td>←</td>
<td>Only one side of the tape (either the forward side or the reverse side) will be played, and operation will automatically stop when playback has been completed.</td>
</tr>
<tr>
<td>↔</td>
<td>Both sides of the tape will be played repeatedly eight times, and then operation will automatically stop. (If playback is begun from the reverse side, the forward side will be played seven times.)</td>
</tr>
<tr>
<td>↔</td>
<td>When there is a tape in only one of the decks Both sides of the tape will be played once, and then operation will automatically stop. (If playback is begun from the reverse side, the forward side will not be played.) When there is a tape in each of the decks The forward and reverse sides of the tape in Deck 1 will be played, followed by the forward and reverse sides of the tape in Deck 2, and after this operation is repeated eight times, operation will automatically stop. (If playback is begun from Deck 2, the tape in Deck 1 will be played seven times.)</td>
</tr>
</tbody>
</table>

About the remote control function

When connecting a Technics amplifier with the remote control transmitter to this unit, you can operate this unit using a remote control transmitter of the amplifier. (This may not be possible with some models.) During operation from the remote control, the “R.C.” indicator will light up.

About the Dolby noise-reduction system

The Dolby noise-reduction system is designed to effectively reduce the annoying high-frequency “hissing” noise typical of cassette tapes. During recording, the system functions to increase the high-frequency sound level, the sound, and then, during playback, that same portion is weakened to bring it back to the previous level.

This unit includes two types of Dolby noise-reduction systems, the Dolby B NR-type and C NR-type.

Dolby B-type noise-reduction

Noise is reduced to about one third. Use this system when playing back tapes recorded by the Dolby B noise-reduction system, such as prerecorded music tapes, etc.

Dolby C-type noise-reduction

Noise is reduced to about one-tenth. Use this system for the recording and playback of sound sources that have a wide dynamic range and good tone quality, such as FM broadcasts of live performances, etc., and for playing back such tapes.

About the Dolby HX-Pro headroom extension system

By functioning to improve the maximum output level of the tape’s high-frequency range, this system permits recordings without a reduction in the level of the sound source’s high-frequency range. In addition, by using the system in parallel with this unit’s noise-reduction system, recording and playback with a greatly extended dynamic range is possible.

About the automatic-tape-select function

This unit is equipped with the automatic-tape-select feature, it automatically detects the type of tape being used, and then makes the suitable adjustments of the bias and equalization accordingly.

To listen through headphones

RS-TR474 only

Connect the headphones (not included) to the headphones jack. Plug type: 1/4 inch phone plug, stereo type.

Note
Avoid listening for prolonged periods of time to prevent hearing damage.
Both sides of the tape in Deck 1 will be played, followed by both sides of the tape in Deck 2. (Repeated up to eight times.)

1. Press DOLBY NR to select the appropriate noise-reduction system.

2. Press REVERSE MODE to select the "∞∞" mode.

3. Press ▶ on Deck 1. (Series playback will begin from the forward side of the tape in Deck 1.)

For your reference:
It is also possible to begin series playback from the reverse side of the tape in Deck 1 or from Deck 2. (Refer to the tape travel table on page 8.)

To temporarily stop playback
(Deck 2 only)

Press III. Press once again to resume playback.

To stop playback

Press ■ for the deck which is playing.

The linear counter indicates the amount of tape travel as the approximate amount of elapsed time.

To reset the linear counter

Press COUNTER RESET. The linear counter indication will return to "00.00".

For your reference:
When the tape is travelling in the reverse direction, the value displayed on the linear counter will count down. After "00.00" is reached, the value will then start to become greater, but with a minus sign displayed (example: "-00.06").

Note
The linear counter is not a digital clock. The difference between the actual recording and playback time and the counter display may be anything up to several minutes.
The tape counter indicates the amount of tape travel as a numerical value based on the number of revolutions of the tape hub.

**To reset the tape counter**

Press COUNTER RESET.

The tape counter indication will return to "000".

For your reference:

When the tape is travelling in the reverse direction, the value displayed on the tape counter will count down. After "000" is reached, the display will switch to "999" and will then continue counting down.

Because this unit is capable of playing back both sides of the tape, the operation changes in accordance with the direction of the tape side indicator.

<table>
<thead>
<tr>
<th>Tape side indicator</th>
<th>Rewind</th>
<th>Fast forward</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Cassette tapes in deck 1 and deck 2 can be advanced or rewound at the same time.*

**High-speed tape transport**

When fast-forwarding from near the beginning of the tape or when rewinding from near the end of the tape, the tape travel speed will be faster than that during normal fast-forwarding or rewinding. (During high-speed tape transport, the "H" indication will light up.)

This high-speed tape transport will also function during TPS.
(TPS: Tape Program Sensor)

During operation of the TPS function, the play indicator will flash quickly.
To find the beginning of a track which is several tracks before or after the track currently being played, repeat the procedure until the desired track is found.
If the reverse mode is set to "<" or "<<", when the end of the tape is reached, operation will switch to the other side of the tape and the TPS function will continue to operate.

**Note**
Because the TPS function utilizes the blank spaces between tracks, it may not be able to function properly under the following conditions:
- When there is less than 4 seconds of silent interval between tracks
- When there are no completely silent intervals (such as when the tape has been recorded using a microphone)
- When there are especially low-level parts or silent parts inside a track (such as sometimes occurs in classical music)
- If the << or >> button is pressed when less than 10 seconds has elapsed from the beginning of the track or there is less than 10 seconds remaining to the beginning of the next track
- If the tracks have been recorded with a fade-in (a gradual increase in the recording level) or a fade-out (a gradual decrease in the recording level)

(While tape is being played back]
**Press << or >>.**
(The tape will be re-wound or fast-forwarded to the beginning of the track, and then playback will automatically begin.)

Because this unit is capable of playing back both sides of the tape, the operation changes in accordance with the direction of the tape side indicator.

<table>
<thead>
<tr>
<th>Tape side indicator</th>
<th>Tape returns to the beginning of the track currently being played, and playback begins.</th>
<th>Playback begins from the beginning of the next track.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&lt;&lt;</td>
<td>&gt;&gt;</td>
</tr>
<tr>
<td></td>
<td>&gt;&gt;</td>
<td>&lt;&lt;</td>
</tr>
</tbody>
</table>

To return to the normal speed during high-speed tape transport
Press the << or >> button corresponding to the current direction of tape travel.

**Note**
Depending on the amount of tape on the take-up and supply sides, the tape may not be transported at high-speed.
Either normal, CrO₂ or metal type cassettes can be used.

Preparation
1. Switch on the power.
2. Load a tape which has been advanced to the end of the leader tape (the transparent part at both ends of the tape) into Deck 2.

1. **DOLBY NR**
   - Press DOLBY NR to select the desired noise-reduction system. (Refer to the opposite page.)
   - Each time the button is pressed, the indicator will change in the order: B → C → off.

2. **REVERSE MODE**
   - Press REVERSE MODE to select the desired reverse mode.
   - Each time the button is pressed, the indicator will change in the order:

   ![Indicator Changes]

   - : Only one side will be recorded, and then operation will automatically stop.
   - : Both sides (the forward side first, and then the reverse side) will be recorded, and then operation will automatically stop.

3. **Press ATC**
   - Setting of the ATC (refer to page 14) will commence, and will be completed after approximately one minute.
   - When the settings are complete, the tape will be returned to the position from which the ATC function began, and then the unit will enter the stop mode.
   - Indicates that ATC has been set.

4. **Press REC**
   - (The unit will be in the recording standby mode.)
   - Flashes
   - Illuminates

5. Play the source in order to adjust the recording sound.

6. **BALANCE**
   - If necessary, adjust the BALANCE control to adjust the balance.
   - (Refer to the opposite page)
   - (The control should normally be set to the center position)
Use the REC LEVEL control to adjust the recording level. (Refer to the right side of this page.)

Stop play of the source.

Press ◄ or ► to begin recording, and play the source to be recorded.

►: To begin recording from the forward side.
◄: To begin recording from the reverse side.

Level meter

Illuminates

Note
When recording on both sides of the tape, be sure to press the ► button.

About the selection of the Dolby NR type

The Dolby NR effect can be obtained by using the same type of Dolby NR during both recording and playback. Refer to the following table when selecting the type (either B or C).

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type B</td>
<td>Use this type when the deck or which the tape will be played back is equipped with only type B Dolby NR.</td>
</tr>
<tr>
<td>Type C</td>
<td>Use this type when the deck or which the tape will be played back is equipped with type C Dolby NR. (For example, when this unit is also going to be used to play back the tape.)</td>
</tr>
</tbody>
</table>

(Refer to "About the Dolby noise reduction system" on page 18.)

About the balance adjustment

While playing a monaural source, adjust so that the left and right level indications on the level meter are the same.

About the recording level adjustment

If the recording level is too high, there will be distortion in the recorded sounds, and if it is too low, the hiss noise inherent to recording tapes will become noticeable.

In order to make high-quality recordings, use the REC LEVEL control to adjust so that highest values of the input level indicated by the level meter do not exceed the standard recording level (the number indicated in parentheses) for the tape being used.

- The tape has reached the leader tape.
- The tape is severely damaged.
- The cassette deck's heads are severely dirty.
- The tape is a non-standard type, such as a metal tape which has no tape type identification hole in the cassette.

Note
- If the cassette holder is opened after the ATC settings have been completed, the settings will be canceled.
- When making the ATC settings midway along a tape, provide a silent interval at least 2 seconds long after the last track prior to where the settings will begin.
The ATC (auto tape calibration) function records a test signal in order to automatically set the bias, equalizer and recording/playback level to the optimum recording conditions in accordance with the characteristics of the tape being used.

The table below shows the conditions of the display and the operation of the unit while the ATC settings are being made:

<table>
<thead>
<tr>
<th>Display</th>
<th>Unit operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. <strong>Bias adjustment</strong></td>
<td>The bias is adjusted so that the output level is the same at 400 Hz and at 10 kHz.</td>
</tr>
<tr>
<td><img src="image" alt="Bias adjustment display" /></td>
<td><img src="image" alt="Bias adjustment graph" /></td>
</tr>
<tr>
<td><strong>BIAS</strong> is displayed.</td>
<td>Flashes</td>
</tr>
</tbody>
</table>

| 2. **Equalizer adjustment** | The equalizer is adjusted so that the output level is the same at 400 Hz and at 3 kHz. |
| ![Equalizer adjustment display](image) | ![Equalizer adjustment graph](image) |
| **EQ** is displayed. | Flashes |

| 3. **Level adjustment** | The tape sensitivity is compensated so that the recording input level and the playback output level are the same. |
| ![Level adjustment display](image) | ![Level adjustment graph](image) |
| **LEVEL** is displayed. | Flashes |
A silent interval of 4 seconds or more can be provided between tracks. This function is useful for playing back on decks which can skip to the beginning of tracks, and for cutting unwanted sound from commercials.

**To make a 4-second silent interval**

Press AUTO REC MUTE momentarily while a recording is being made.

A 4-second silent interval will be recorded, and the unit will automatically be set to the recording standby mode.

**To make a silent interval more than 4 seconds**

Press and hold AUTO REC MUTE for the necessary number of seconds while a recording is being made.

The unit will change to the recording standby mode when the button is released.

**To resume recording**

Press either ◀ or ▶, corresponding to the side of the tape side indicator which is lit.

![Tape side indicator](image)

When new recordings are made on a pre-recorded tape, all sounds recorded on that portion of the tape are automatically erased. To erase a tape without making a new recording, follow the steps below.

1. Press DOLBY NR so that the Dolby NR indicators ("B" and "C") are off. (Refer to page 12.)

2. Press REVERSE MODE to select the desired reverse mode.

3. Set the REC LEVEL control to "0".

4. Press REC. (The unit will be in the recording standby mode.)

5. Press ◀ or ▶ to begin erasing the tape.

- To erase the forward side of the tape.
- To erase the reverse side of the tape.

**Note**

To erase both sides of the tape, be sure to press the ▶ button.
Either normal, CrO₂ or metal type cassettes can be used.

Use Deck 2 to record the sound being played back on Deck 1.

**Preparation**
1. Switch on the power.
2. Load tapes which have been advanced to the end of the leader tape into both decks.
   - **Deck 1:** For playback
   - **Deck 2:** For recording

**1.** Press REVERSE MODE to select the desired reverse mode.

Each time the button is pressed, the indicator will change in the order:

- : Only one side of the tape will be recorded, and then operation will automatically stop.
- : Both sides of the tape (first the forward side and then the reverse side) will be recorded, and then operation will automatically stop.
- : If the recording tape is longer than the playback tape, the playback tape will be played repeatedly as many as eight times until the recording tape is finished.
- : Both sides of the tape (first the forward side and then the reverse side) will be recorded once, and then operation will automatically stop.

**2.** Press SPEED to select the recording speed.

Each time the button is pressed, the indicators will change in the order:
- x1: Normal speed
- x2: Double speed

**3.** Press ATC.

(For ATC function will enter the standby mode)

Press SYNCHRO START.

(For ATC will begin, and when it is completed, recording will begin)

**Note**
To record on only one side of the tape, set the tape side indicators ( or ) on Deck 1 and Deck 2 in accordance with the tape sides to be played back and recorded.

To record on both sides of the tape, set the tape side indicators on both Deck 1 and Deck 2 to the forward side ( ).

**Note**
In order to avoid operation errors later, be sure to switch OFF the SPEED button (the "x 1" and "x 2" indicator will go out) after the tape-to-tape recording has finished.

RS TRX74 only
When recording without using the ATC function, step 3 is unnecessary.
To record selected tracks

1. During recording, press ■ on Deck 1.
   (Deck 1 will stop, and Deck 2 will record a 4-second silent interval and then enter the recording standby mode.)

2. Operate Deck 1 to find the track you wish to record.
   It is also possible to change the playback tape at this time.
   RS-232C only
   The TPS function is useful for finding the beginning of the track.
   (Refer to page 11.)

3. Press SYNCHRO START.
   (Recording will resume.)

To cut unwanted parts during recording

1. Press ■ during recording.
   (Deck 2, which was recording, will enter the pause mode, and Deck 1 will continue playback.)

2. [When Deck 1 reaches a part you wish to record] Press ■.
   (Deck 2 will resume recording.)

To stop recording

Press ■ on Deck 2.

(On Deck 2)

For your reference:
- The recording level and the Dolby effect will be recorded as they are on the tape being played back.
- Because the signal being recorded from Deck 1 onto Deck 2 does not pass through the amplifier, it is possible to change the setting of the amplifier's input selector during recording in order to listen to some other sound source.

Note
When recording with the recording speed set to double speed, noise interference may be recorded onto the tape if there is a television set nearby, so make the recording in a location separated from the television set or switch off the television set during recording.

Your attention is drawn to the fact that recording pre-recorded tapes or discs on other published or broadcast material may infringe copyright laws.
### Selection of cassette tapes

**Cassette tapes exceeding 90 minutes**
These tapes are handy for their long playback and recording time but be careful about repeatedly stopping and starting, rewinding and fast forwarding these tapes in short intervals as they tend to stretch and may become entangled in the machine.

**Fe-Cr tapes (TYPE II)**
The high frequency range will be emphasized, and it will not be possible to obtain a flat frequency response.

**Metal tape without detection holes in the cassette**
Recordings will be very distorted. (However, there will be no problem with playback.)

![Metal tape with detection holes](image)

**Erasure prevention**

Remove the tab(s).

![Tab for side "A" or similar object to break out the tab.](image)

To re-record on a protected cassette

Cover the slot with adhesive tape.

![Attach tape](image)

### Tape slack

Tape slack may cause the tape to break.

Use a pencil or similar object to take up the slack.

![Use a pencil or similar object to take up the slack.](image)

### Tape storage

Tapes can be damaged if stored in places such as those described below.
- Where the temperature is high (95°F/35°C or higher) or where the humidity is high (80% or higher)
- Where there is a strong magnetic field (near a speaker, on top of a TV, etc.). Recording may become erased
- In direct sunlight
Head care

To assure sound quality for recording and playback, be sure to clean the heads after approximately every 10 hours of use.
1) Press the open/close button to open the cassette holder.
2) Disconnect the AC power supply cord from the AC outlet.
3) Clean the heads, pinch roller and the capstan shaft with a cotton swab (or with a soft, lint-free cloth) slightly moistened with isopropyl alcohol.
Do not use any solution other than alcohol for head cleaning.

Head demagnetization

In order to maintain good sound quality during recording and playback, it is recommended that the head assembly be demagnetized if distortion or poor sound quality persists after cleaning the heads.
If the head assembly becomes magnetized, it could create noise in the recordings, loss of high-frequency response or erasure of valuable recordings.

Several types of head demagnetizers are available and may be purchased separately at local electronics supply stores. Follow the instructions that are supplied with the device.

Do not bring any type of metal objects or tools such as magnetic screwdrivers in contact with the head assembly.

Maintenance of external surfaces

To clean this unit, use a soft, dry cloth.
If the surfaces are extremely dirty, use a soft cloth, dipped into a soap-and-water solution or a weak detergent solution.
Wring the cloth well before wiping the unit.
Wipe again with a soft, dry cloth.
Never use alcohol, paint thinner, benzine, nor a chemically treated cloth to clean this unit.
Such chemicals may damage the finish of your unit.

 irradiance.

Cassette deck section

Deck system
Stereo cassette deck
Track system
4-track, 2-channel
Recording system
AC bias
Bias frequency
80 kHz
Erasing system
AC erase
Heads
DECK 1
Playback head (Permalloy) x 1
DECK 2
Recording/Playback head (Permalloy) x 1
Erasing head (Double-gap ferrite) x 1
Motors
DECK 1
Capstan drive (DC servo motor) x 1
Reel table drive (DC motor) x 1
DECK 2
Capstan drive (DC servo motor) x 1
Reel table drive (DC motor) x 1
Tape speed
4.8 cm/sec. (1-7/8 ips)
Wow and flutter
0.1% (WRMS) ±0.2% (DIN)
Fast forward and rewind times
[RS-1H474] Approx. 50 seconds with U-6U cassette tape
[RS-TR373] Approx. 95 seconds with C-60 cassette tape
Frequency response (Dolby NR off)
NORMAL
40 Hz – 15 kHz, ± 3 dB
20 Hz – 16 kHz (DIN)
CrO₂
40 Hz – 15 kHz, ± 3 dB
20 Hz – 16 kHz (DIN)
METAL
40 Hz – 16 kHz, ± 3 dB
20 Hz – 17 kHz (DIN)
S/N (Signal level = max recording level, CrO₂ type tape)
NR off
56 dB (A weighted)
Dolby B NR on
66 dB (A weighted)
Dolby C NR on
74 dB (A weighted)
Input sensitivity and impedance
REC (IN)
100 mV/47 kΩ
Output voltage and impedance
PLAY (OUT)
500 mV/500 Ω
HEADPHONES [RS-TR474]
30 mV (8 Ω)
(Load impedance 8–600 Ω)

General

Power consumption
24 W
Power supply
For United Kingdom, Europe, Australia and N.Z.
AC 50 Hz/60 Hz, 230 V – 240 V
For others
AC 50 Hz/60 Hz, 110 V/127 V/220 V/240 V
Dimensions (W × H × D)
430 × 136 × 285 mm
Weight
4.4 kg

Note:
Specifications are subject to change without notice.
Weight and dimensions are approximate.

For United Kingdom
This apparatus was produced to BS 800.
Troubleshooting guide

Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to the directory of Authorized Service Centers (enclosed with this unit) to locate a convenient service center, or consult your Technics dealer for instructions.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Probable cause(s)</th>
<th>Suggested remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tape moves but no sound is heard.</td>
<td>The volume control of the receiver is set to its minimum position.</td>
<td>• Adjust the volume control to the desired level.</td>
</tr>
<tr>
<td></td>
<td>The input selector of the receiver is not set to the “TAPE” position.</td>
<td></td>
</tr>
<tr>
<td>Distorted sound.</td>
<td>The recording level is too high.</td>
<td>• Select the appropriate recording level.</td>
</tr>
<tr>
<td>Previously recorded sound has not been erased.</td>
<td>Erase head is dirty.</td>
<td>• Clean the head.</td>
</tr>
<tr>
<td>Sound output is hoarse or unstable.</td>
<td>Heads are dirty.</td>
<td>• Clean the heads.</td>
</tr>
<tr>
<td></td>
<td>Tape is damaged.</td>
<td>• Try operation with a new cassette; if there is no problem with the new cassette, discard the damaged cassette.</td>
</tr>
<tr>
<td>Poor sound quality (especially in the high treble and low bass ranges).</td>
<td>The correct Dolby noise-reduction button is not set.</td>
<td>• Set it to the correct position.</td>
</tr>
<tr>
<td>Sound is low, poor tone, intermittent sound noise.</td>
<td>Heads, capstan and/or pinch roller are dirty or tape is damaged.</td>
<td>• Clean the heads, capstan and/or pinch roller, or try a new cassette.</td>
</tr>
<tr>
<td>A &quot;hum&quot; noise is heard during tape playback or recording.</td>
<td>This unit is placed too close to a receiver, amplifier or tuner.</td>
<td>• Leave as much space as possible between the units, or place them where there is the least amount of &quot;hum&quot;.</td>
</tr>
<tr>
<td>Recording is not possible.</td>
<td>The recording level control is at the “0” position.</td>
<td>• Select the appropriate recording level.</td>
</tr>
<tr>
<td></td>
<td>One of the tape-to-tape recording speed indicators (×1&quot; or ×2&quot;) is illuminated.</td>
<td>• Switch OFF whichever tape-to-tape recording speed indicator is illuminated (by pressing the SPEED button).</td>
</tr>
<tr>
<td>TV noise is accidentally recorded.</td>
<td>This unit is placed near a TV.</td>
<td>• Try placing this unit further away from a TV.</td>
</tr>
</tbody>
</table>

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