



WARNING  
TO PREVENT FIRE OR SHOCK  
HARM, DO NOT EXPOSE THIS APPLIANCE

# Sankyo

## STR-100

AM/FM RADIO CASSETTE  
RECORDER



OPERATION MANUAL

# CONTENTS

## CONTENTS

<b>Cautions</b>	2
<b>Features</b>	2
<b>Components and Controls</b>	3
<b>Power Supply</b>	4
<b>Radio Listening</b>	4
<b>Tape Playback</b>	5
<b>Tape Recording</b>	6
<b>Erasing Tape</b>	7
<b>Protection of Recorded Programs</b>	7
<b>Other Controls</b>	8
<b>Sleep Timer</b>	8
<b>Cleaning</b>	8
<b>Specifications</b>	9

**WARNING :**

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

## CAUTIONS

- When there is no cassette or when the cassette has its knock-out tab (to prevent accidental erasure) broken, the Recording button cannot be depressed. Do not force this button.
- When loading a cassette, hold it so that the edge with the exposed tape is on top.
- When the tape recorder is not being used, press the STOP button. This makes the other buttons return to their off positions.
- When changing mode, always stop first. You can go directly from rewind to play or from fast forward to play, but if this is done, the tape may become entangled.
- Leaving the recorder in the fast forward or rewind mode for a long time after the tape has come to an end may shorten the life of the recorder.
- Do not use the recorder where the temperature is high or where there is excessive humidity or dust.
- Remove the batteries if the recorder is not to be used for a long period. This is to prevent damage from corrosion of the batteries.
- Clean the cabinet with a soft rag soaked in a neutral cleaner. Do not use benzine or thinner as they will damage the cabinet.
- Disconnect the AC cord if the recorder is not to be used for a long time.
- When the tape is fully wound on the left reel, the Play button cannot be locked.

This is not due to any defect of the machine. If this happens, make sure of the tape condition first.

## FEATURES

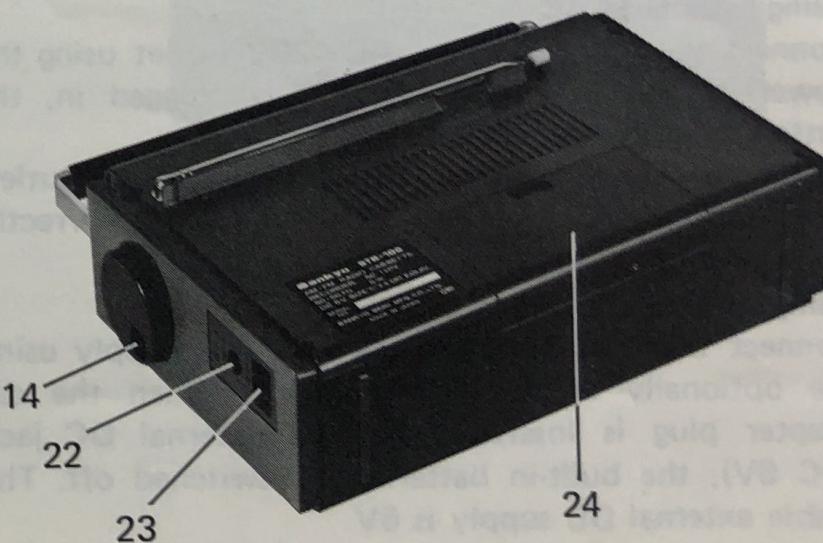
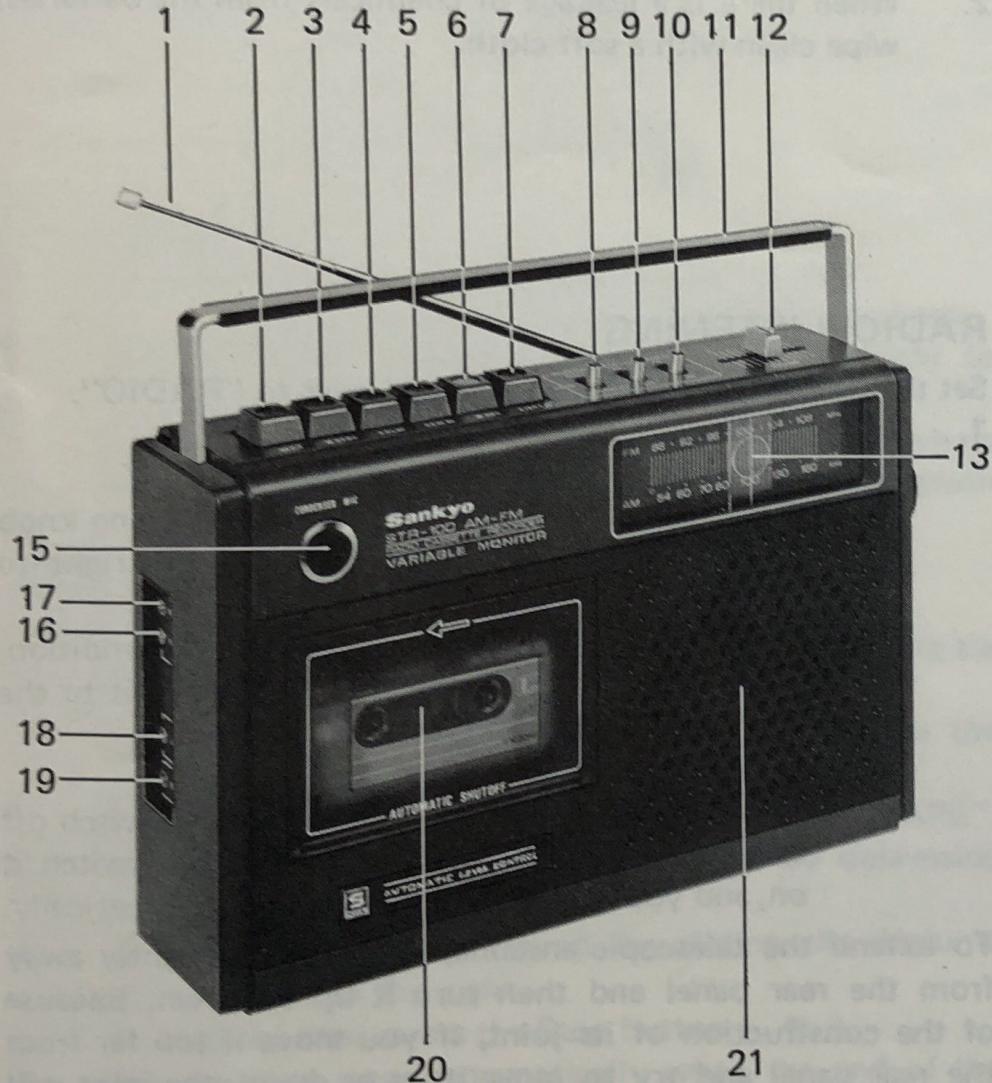
- FM/AM radio
- Automatic stop mechanism
- Variable monitor
- 3-Way power supply (AC/DC/Ext. DC)
- ALC (automatic recording level control)
- Built-in condenser microphone
- Accurate slide volume control
- Sleep timer
- 4" diameter speaker
- Auxiliary input jack
- AFC switch

WARNING:

TO PREVENT FIRE

EXPOSED THIS AREA

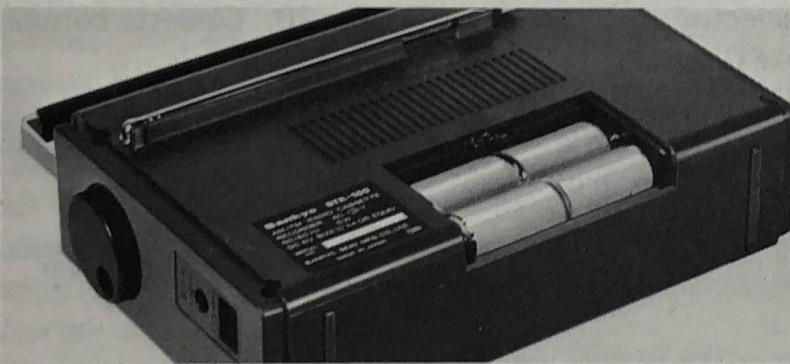
## COMPONENTS AND CONTROLS



## POWER SUPPLY

### 1. Using batteries

- 1) Slide the battery cover in the direction of the arrow (PUSH ▼) pressing the recessed opening.
- 2) Fit 4 batteries with their bases against the springs as shown. If they are fitted incorrectly, the recorder will not work.
- 3) Slide the cover to close it.



### 2. Using household AC

Connect the machine to an AC 120V outlet using the power cord supplied. When this is plugged in, the battery circuit is switched off.

Before connecting the recorder to a household AC outlet, be sure to check that the power voltage is correctly corresponding to your local power supply.

### 3. Using external DC

Connect the machine to an external DC supply using the optionally available car adapter. When the car adapter plug is inserted into the external DC jack (DC 6V), the built-in batteries are switched off. The usable external DC supply is 6V.

### NOTE:

1. When the machine is operated for an extended period of time using the AC power cord or when the machine is to be left unused, the batteries should be removed.
2. When there is a leakage of chemicals from the batteries, wipe clean with a soft cloth.

## RADIO LISTENING

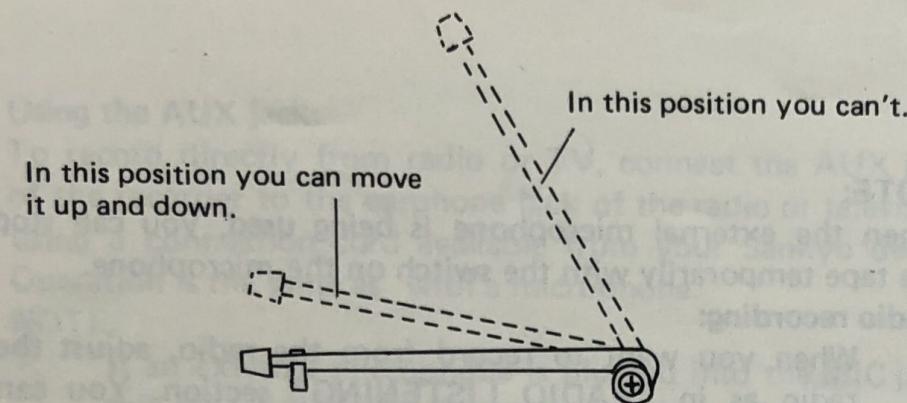
Set the TAPE/RADIO/SLEEP selector lever to "RADIO".

### 1. FM reception

- 1) Set the Radio Band Selector lever to "FM".
- 2) Tune in the desired station with the Tuning knob.
- 3) Slide the Volume control knob to the right to hear louder sound.
- 4) When the reception is not in good condition, extend the telescopic antenna and move it to the position where reception is best.
- 5) AFC switch

When tuning to an FM station, set this switch off and tune roughly to the station. Then switch it on, and you will get optimum tuning automatically.

To extend the telescopic antenna, first move it slightly away from the rear panel and then turn it up or down. Because of the construction of its joint, if you move it too far from the rear panel and try to move it up or down, the joint will be damaged.



## 2. AM reception

- 1) Set the Radio Band Selector lever to "AM".
- 2) Tune in the desired station with the Tuning knob.
- 3) Slide the Volume control knob to the right to hear louder sound.
- 4) When the reception is not so good, move the whole machine until it is in the position where reception is best.

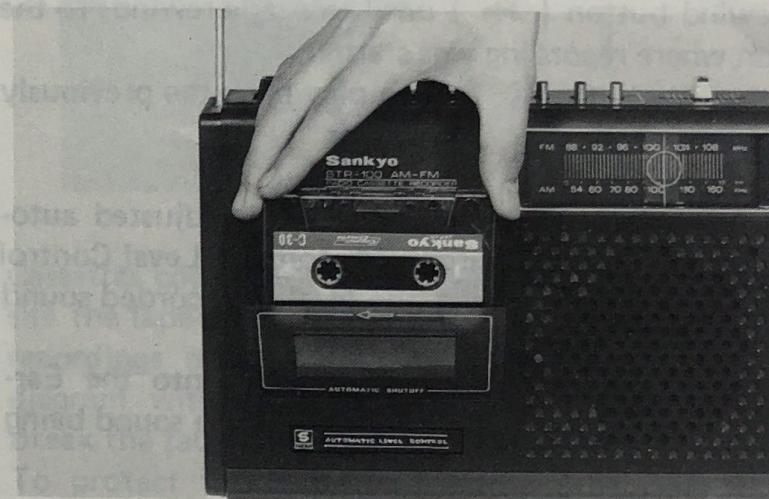
## TAPE PLAYBACK

1. Open the cassette compartment lid by depressing the Eject button (  ).
2. Load a cassette as shown in the picture and close the cassette compartment lid with the cassette in place.
3. Set the TAPE/RADIO/SLEEP Selector lever to "TAPE".
4. Set the machine in the playback mode by depressing the Play button (  ).
5. You can hear louder sound by sliding the Volume control knob to the right.
6. To stop the tape, press the Stop button (  ).
7. The machine stops automatically when the end of the tape is reached.

## PROTECTION OF RECORDED PROGRAMS

### NOTE:

This Sankyo tape recorder features an "Auto-Stop" mechanism at the tape end. However, some heavy cassette tapes "auto-stop" at the start of tape where the white leader tape joints the magnetic tape. This is NOT a defect of the tape recorder. Depress the button again for further running.



## TAPE RECORDING

### Using the built-in condenser microphone:

1. Load the cassette in the same way as for playback.
2. Set the TAPE/RADIO/SLEEP Selector lever to "TAPE".
3. Depress the Record (●) and Play (◀) buttons simultaneously. Recording will now start.
4. To stop recording, press the Stop button (■). Press the Rewind button (▶▶) until the tape rewinds to the position where recording was started.
5. Press the Play button (◀) to play back the previously recorded material.

### NOTE:

1. During recording the recording level is adjusted automatically with the ALC circuit (Automatic Level Control circuit). You cannot adjust the level of recorded sound by turning the Volume Control knob.
2. Plug the earphone (optional accessory) into the Earphone jack (EAR) and you can monitor the sound being recorded.

### Using an external microphone:

The built-in microphone is sufficient for normal use; but if you want your recordings to contain less surrounding noise, plug the microphone (optional accessory) into the Microphone (MIC) and Remote (REM) jacks. This switches off the built-in microphone and you can record using the external microphone. To record, the remote control switch on the microphone should be in its "ON" position. The impedance of the external microphone should be 600 ohms.

### NOTE:

When the external microphone is being used, you can stop the tape temporarily with the switch on the microphone.

### Radio recording:

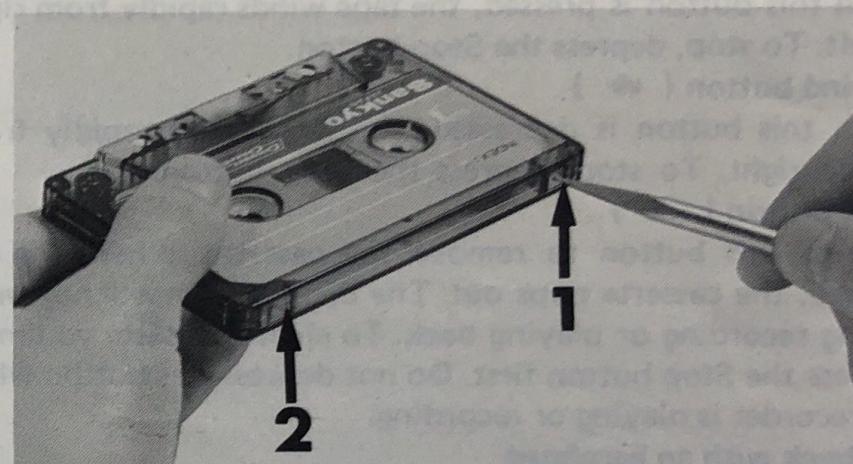
1. When you want to record from the radio, adjust the radio as in "RADIO LISTENING" section. You can then record, as described under "TAPE RECORDING", while you listen. Set the TAPE/RADIO/SLEEP Selector lever to "RADIO".
2. Recording through the built-in microphone, an external microphone, AUX input, etc. is not possible while recording from the radio.
3. Adjust the volume to suit yourself as it has no effect on the recording level.
4. Stop and rewind the tape until it reaches the position where recording was started. Press the Play button to play back the recorded radio program.

The TAPE/RADIO/SLEEP Selector lever should be in TAPE position.

### Variable monitor

When recording from radio, the level is automatically optimized by the ALC circuit. Whatever setting of the Volume Control knob you choose, the recording will be perfect.

## PROTECTION OF RECORDED PROGRAMS



Cassettes come with protective plastic tabs on the edge opposite the tape openings. To prevent the accidental erasure of the recordings on one side, hold the cassette as shown in the diagram with the side you want to protect upward. Break the tab marked "1".

To protect the recording on the other side of the cassette, break the tab marked "2". When you want to make a new recording after you have broken the tab, reseal the holes with adhesive tape.

### Using the AUX jack:

To record directly from radio or TV, connect the AUX jack of the recorder to the earphone jack of the radio or television using a connection cord available from your Sankyo dealer. Operation is the same as with a microphone.

#### NOTE:

1. If an external microphone is plugged into the MIC jack, this will switch off the other circuits, so be sure to remove the microphone before recording from the AUX jack.
2. The AUX jack accepts from 0.08 to 0.8V. If these limits are exceeded, the recording will be distorted. It is recommended that an earphone should be used to monitor recording.

### ERASING TAPE

1. When a new program is recorded, all previously recorded programs are erased automatically.
2. When you want to erase the previously recorded program without recording a new one, plug a shorting plug (optional accessory) into the Microphone jack (MIC) and set the machine in the recording mode.

## OTHER CONTROLS

### Fast Forward button (◀◀)

When this button is pressed, the tape winds rapidly from right to left. To stop, depress the Stop button.

### Rewind button (▶▶)

When this button is depressed, the tape winds rapidly from left to right. To stop, depress the Stop button.

### Eject button (⏏)

Depress this button to remove the cassette. When it is depressed, the cassette pops out. The Eject button will not work during recording or playing back. To eject a cassette you must depress the Stop button first. Do not depress this button while the recorder is playing or recording.

### Playback with an earphone

Plug the earphone into the earphone (EAR) jack. This cuts off the speaker circuit and gives you private listening. The volume should be adjusted with the Volume control.

### Auto Stop

To save the batteries and extend the trouble-free life of the recorder, an auto stop mechanism is built-in. This functions in recording and playing and switches the recorder off and resets the buttons when the end of the tape is reached.

The Auto Stop does not work during Fast Forward or Rewind.

### NOTE:

The auto stop mechanism in this machine works using the tape tension, which will become insufficient if the pinch roller is dirty or wet. Be careful to clean the pinch roller from time to time.

## SLEEP TIMER

When the TAPE/RADIO/SLEEP Selector lever is set to SLEEP and a cassette is inserted, you can listen to the radio using Playback or Record, and even if you go to sleep, when the end of the tape is reached, the power is automatically turned off.

### NOTE:

The time before the Auto Stop depends on the length of the tape. C-90 cassette = 45 minutes. C-60 cassette = 30 minutes.

## CLEANING

### 1. Cleaning the head assembly

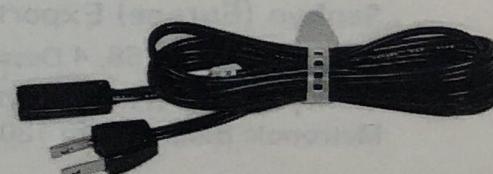
The head and pinch roller, which are in contact with the tape, easily attract dirt. From time to time clean them with a cleaning stick. To optimize the quality of recorded and played back sound, clean the head after 20 hours of use.

### 2. Cleaning the cabinet

When the cabinet becomes dirty, wipe it with a soft cloth soaked in a neutral soap solution.

## SPECIFICATIONS

Power requirement	: DC 6V ("C" battery x 4) AC 120V, 50/60Hz
Power output	: Max. 1W
Power consumption	: AC 5W
Frequency range	: FM 88 – 108 MHz AM 535 – 1605kHz
Frequency response	: 80 – 8,000 Hz
S/N ratio	: 40 dB
Wow & flutter	: Less than 0.3% WRMS
Tape speed	: 1-7/8 ips
Antenna system	: FM built-in telescopic antenna AM built-in ferrite bar antenna
Input jacks	: Microphone jack Remote control jack Auxiliary input jack (0.08 – 0.8V)
Output jack	: Earphone jack (8Ω)
Built-in mike	: Condenser microphone
Semiconductors	: 8 transistors, 10 diodes, 2 ICs
Cassettes	: C-30, C-60, C-90 and C-120
Speaker	: 4" diameter
Dimensions	: 10-3/4"(W) x 7-1/16"(H) x 3"(D)
Weight	: 4.4 lbs (without batteries)
Accessory	: Power cord . . . . .



### Power cord

## OTHER CONTROLS

## SLEEP TIMER

## SPECIFICATIONS



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