

# RICOH SYNCHROFAX R.P

## OPERATION MANUAL

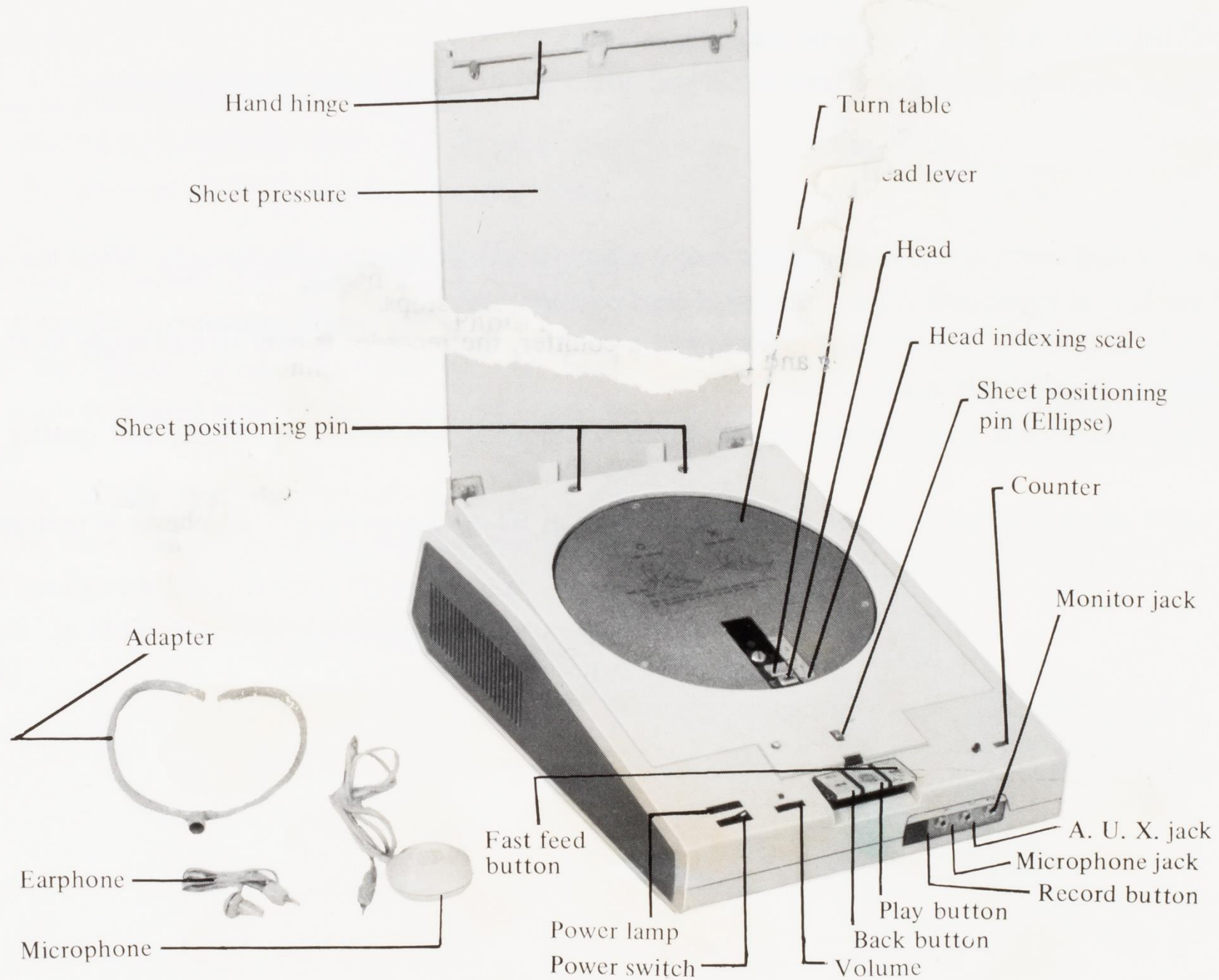


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## SPECIFICATIONS

Power Source	:	AC 110 ~ 120 V or 220 ~ 240 V, 50/60 Hz
Power Consumption	:	10 W
Max. Undistorted Output	:	600 mW
Frequency Characteristics	:	100 Hz ~ 6,000 Hz
Recording System	:	AC biasing method (with automatic gain control circuit)
Max. Recording Time	:	4 minutes (30 rotations)
Revolution Speed of Turn Table	:	Recording . . . . . 1/8 r.p.s. FF and back . . . . . 1/2 r.p.s.
Semi Conductor	:	IC . . . . . 1 piece      Transistor . . . . . 11 pieces Diode . . . . . 9 pieces      Selenium rectifier . . . . . 2 pieces
Size of Spiral Truck and Head	:	Outside diameter . . . . . 190 mm Inside diameter . . . . . 115 mm Spiral pitch . . . . . 1.25 mm Width of truck . . . . . 0.8 mm Width of head . . . . . 0.8 mm
Speaker	:	Ellipse style 16 x 6 cm 8 $\Omega$
Microphone	:	Impedance 200 $\Omega$
Earphone	:	Impedance 8 $\Omega$
Dimensions	:	375 x 270 x 140 mm
Weight	:	5.7 kg

# Names of Parts for RICOH SYNCHROFAX R.P



## Preface

RICOH SYNCHROFAX R.P is a sheet type magnetic recorder.

It employs such a recording sheet that allows visual and audio information for individual education.

## Features

1. The head provided under the recording sheet makes spiral movement from outside inwards. When the head attains the final track, it automatically resumes its initial start position, and stops.
2. Provided with a fast feed button, back button, and a counter, the recorder is easy to accurately locate a position from which to record or reproduce sounds.
3. A.G.C circuit (automatic gain control circuit) works to maintain the recording volume and quality best at all times.
4. RICOH SYNCHROFAX can be served from either 50 Hz or 60 Hz power supply, whichever is preferred.

## HOW TO USE RICOH SYNCHROFAX R.P

### A) Preparation

At first, plug unit into a standard AC receptacle.

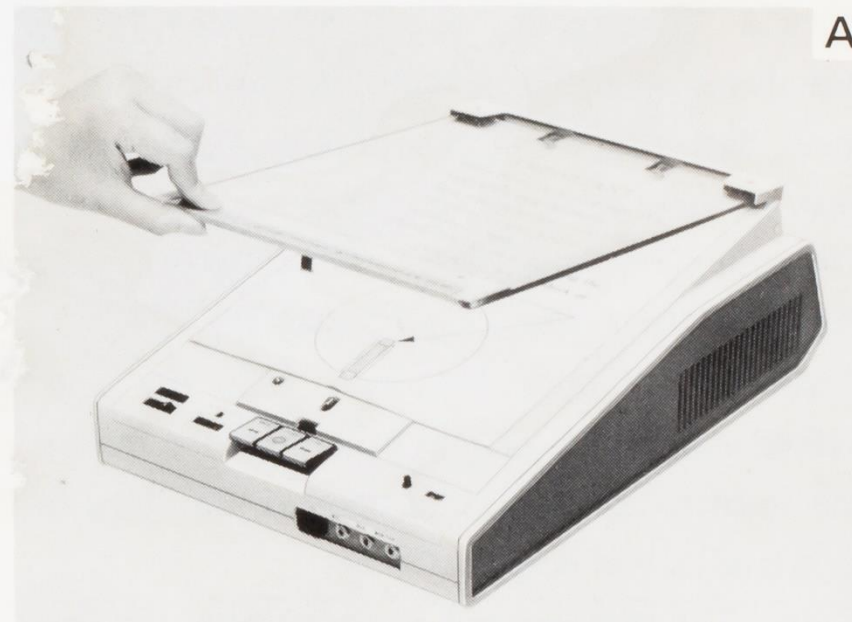
To prepare the "SYNCHROFAX R.P" for operation you must open the pressure plate by raising the hand hinge. (See Photo A)

There is a head protection plate placed in the slot on the turn table. Please lift and remove it out. (See Photo B)

To protect the "Head", it is important that the head protection plate be placed over the head when the machine is not in use.

Always check to see that the "Head" is in the start position. The start position is at the extreme end of the slot toward the front of the machine. (See Photo M)

**Note:** (Refer to Photo E for the manual movement of the head.)



## B) Recording

Place a "Synchrofax Sheet" (raw sheet) with the brown side down on the turn table. Locate the three holes in the sheet onto the "Sheet Positioning Points". (See Photo C) Now securely close the "Pressure Plate".

Turn the "Power Switch", and plug the microphone cord into the "Microphone Jack". (See Photo D)

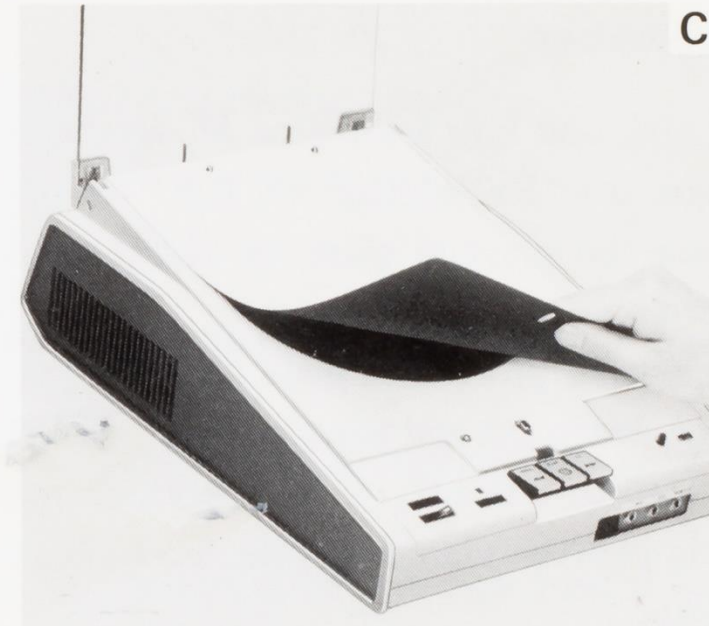
Depress the counter button to reset the counter to "00" before starting. Now, push the "Record Button" located at the front of machine, and depress the "Play Button", then Synchrofax will begin running.

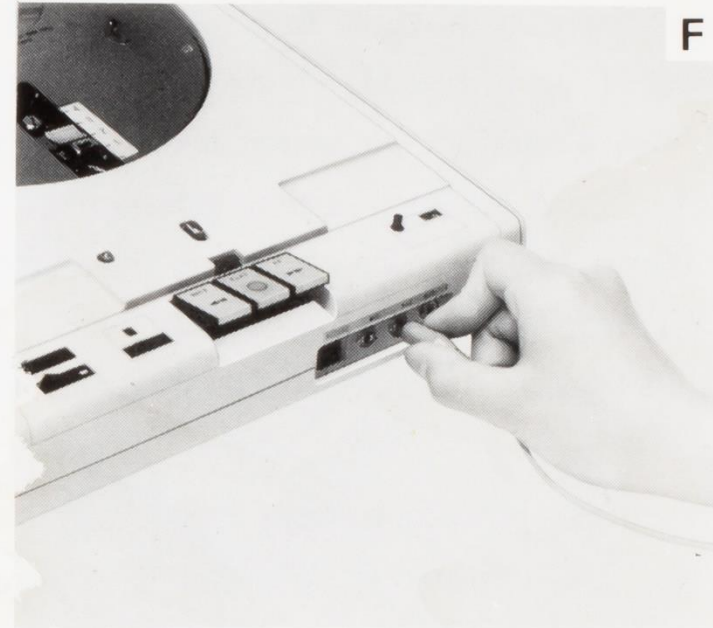
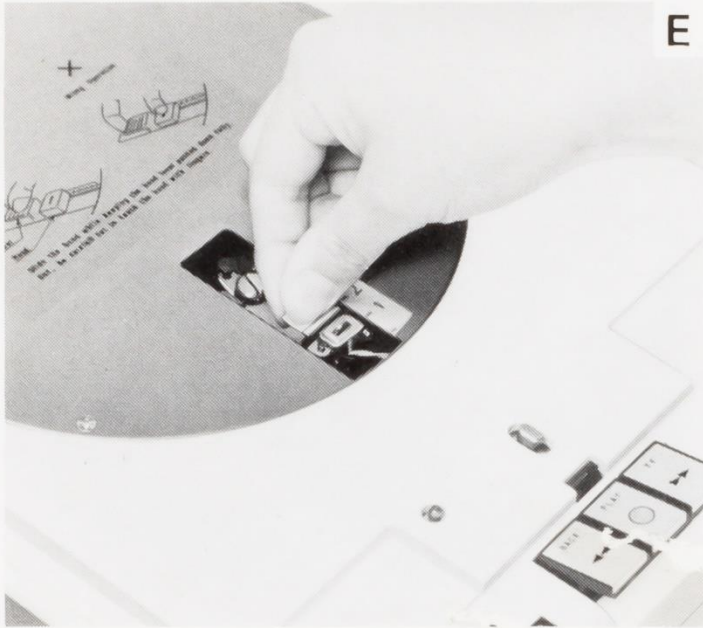
**Note:** The machine will not run unless the sheet is applied. The "Counter" will show the ratio of the elapsed recording time. (99 = 4 minutes)

When it is required to stop the machine, depress the play button again. In this case, the record button is released automatically. To restart the recording, depress the record button once again the play button.

After four minutes of recording, the "Head" returns to its starting position automatically. If the recording is less than four minutes, you must manually locate the recording "Head" to the start position. (See Photo E)

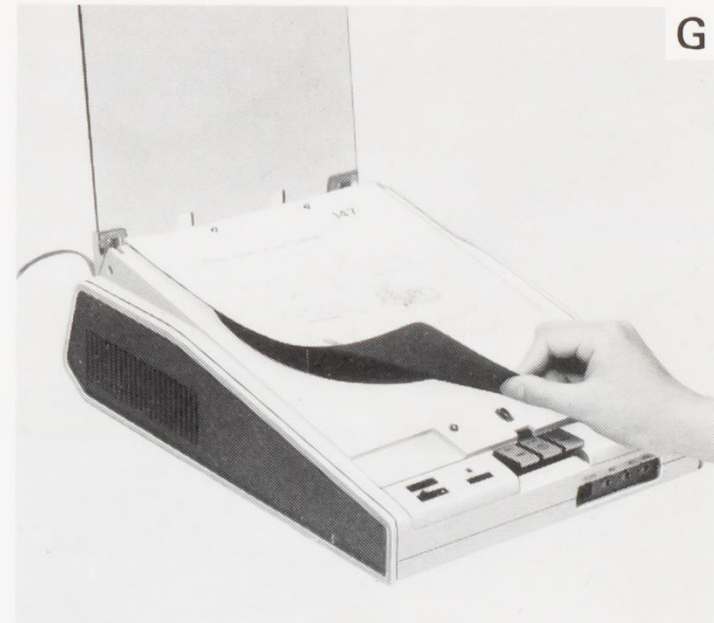
For recording from radio or tape recorder, connect the recording cord to AUX jack. (See Photo F)





### C) Reproduction

1. Place the recorded sheet and close the sheet pressure gently. (See Photo G) Then turn on the power switch.  
**Note:** Please depress the counter button in order to reset the counter to "00" before starting.



2. Depress the play button, then the machine will start running. (See Photo H) Turn the “Volume Control Knob” to a comfortable sound level. Play-back audio can be heard through either speaker or earphone. (See Photo I) When you connect the earphone with the adapter, you can hear by both ears. When it is required to stop the machine, depress the play button again.

To repeat the preceding play, depress the back button directly. (See Photo J) When it is required to skip over, keep “FF” button until the desired place is reached. (See Photo K) In these cases, the counter serves as a “scale”.







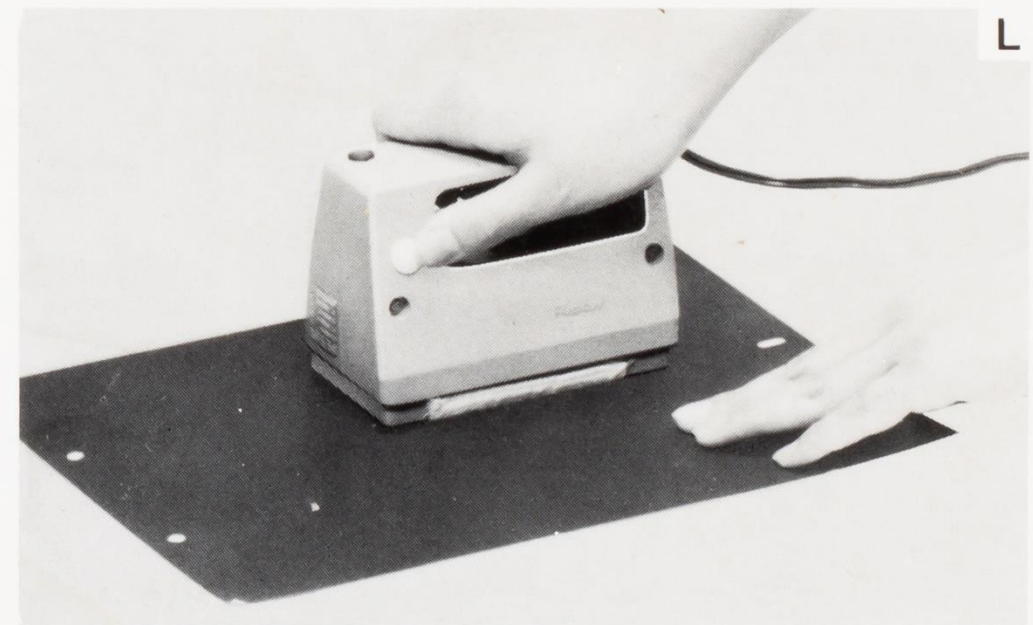
## D) Erasing

The recorded sounds can be erased using RICOH ERASER (optional).

1. Connect the eraser to the standard AC receptacle.
2. Place the sheet level with its brown face turned up.

**Note:** Don't place it on a metal desk or other metallic wares.

3. Lightly swing the eraser from side to side as if you are ironing. The back and forth movements have no effect; nor is strong ironing work. (See Photo L)



## E) Care after use

1. Turn the play button back to the stop position.
2. Turn the turn table with hand back to the start position. Also, shift the head to the start position. (See Photo M)
3. Place the head protection plate onto the head.
4. Then, cover the machine for safe custody.



## HOW TO HANDLE THE SHEET

1. The sheet is provided with three holes of which two are vulnerable to damage. Defective holes mar sheet engagement, causing cross-talk or blurred sounds.  
If such is the case, repair faulty holes by making use of eyelets.
2. It should be borne in mind that the sheet will be erased if it is inattentively left in the magnetic field evolving from TV set or radio set.
3. Sheet should be free from damp and direct sunlight.



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