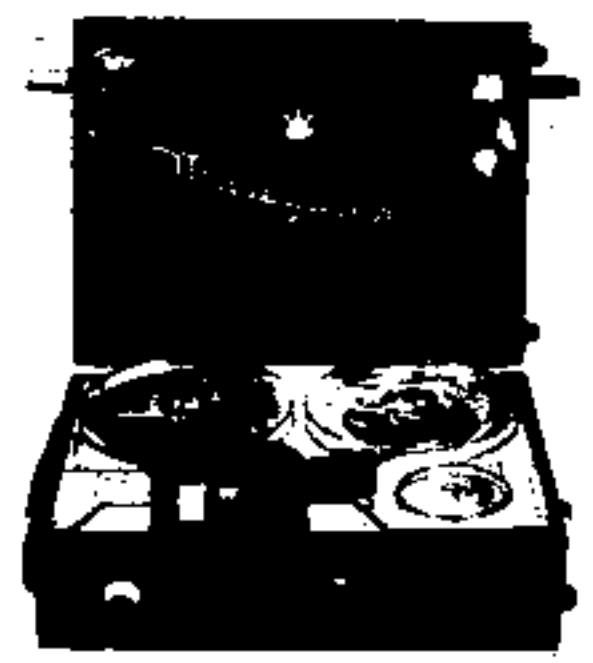


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*Mayfair*

**FIVE TRANSISTOR  
TAPE RECORDER  
MODEL FT-157**



OWNER'S INSTRUCTION MANUAL

# Mayfair

## FIVE TRANSISTOR TAPE RECORDER

WITH CAPSTAN DRIVE, COLORED PUSH BUTTONS, TWO SPEEDS & SAFETY ERASE FEATURE

### SPECIFICATION

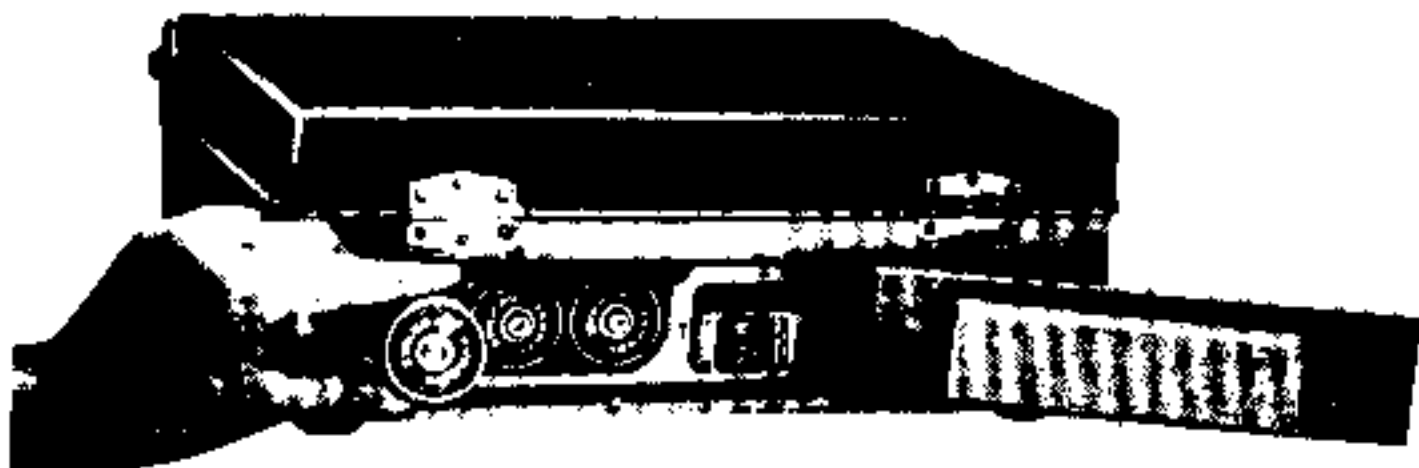
Power Source	4½ volt (3 pcs. x 1.5v "D" size battery) for motor operation and one 9 volt battery (006P)
Circuit	Pushpull type
Frequency Response	200-7,000 %s
S/N Ratio	40 db or better at 1,000 %s
Output Power	Max. 400 mw
Transistor	5 transistor
Recording System	DC bias
Erase System	PM magnet
Recording Track	Double Track
Tape Speed	7½ i. p. s. 30 minutes double track 3-3/4 i. p. s. 1 hour double track
Tape	Standard ¼ x 600 ft.
Fast Rewind Time	2 minutes
Speaker Size	2 ¾" Round
Dimension	8" x 11" x 3 7/8"
Weight	7lbs

- \* Music can be enjoyed from professional pre-recorded tape as well as your own recording made from this recorder
- \* Three color push buttons, each color performs different operation
- \* Plays up to 5" tape
- \* Capstan drive with double track recording system.
- \* Excellent performance can be achieved because of its low wow and flutter factors

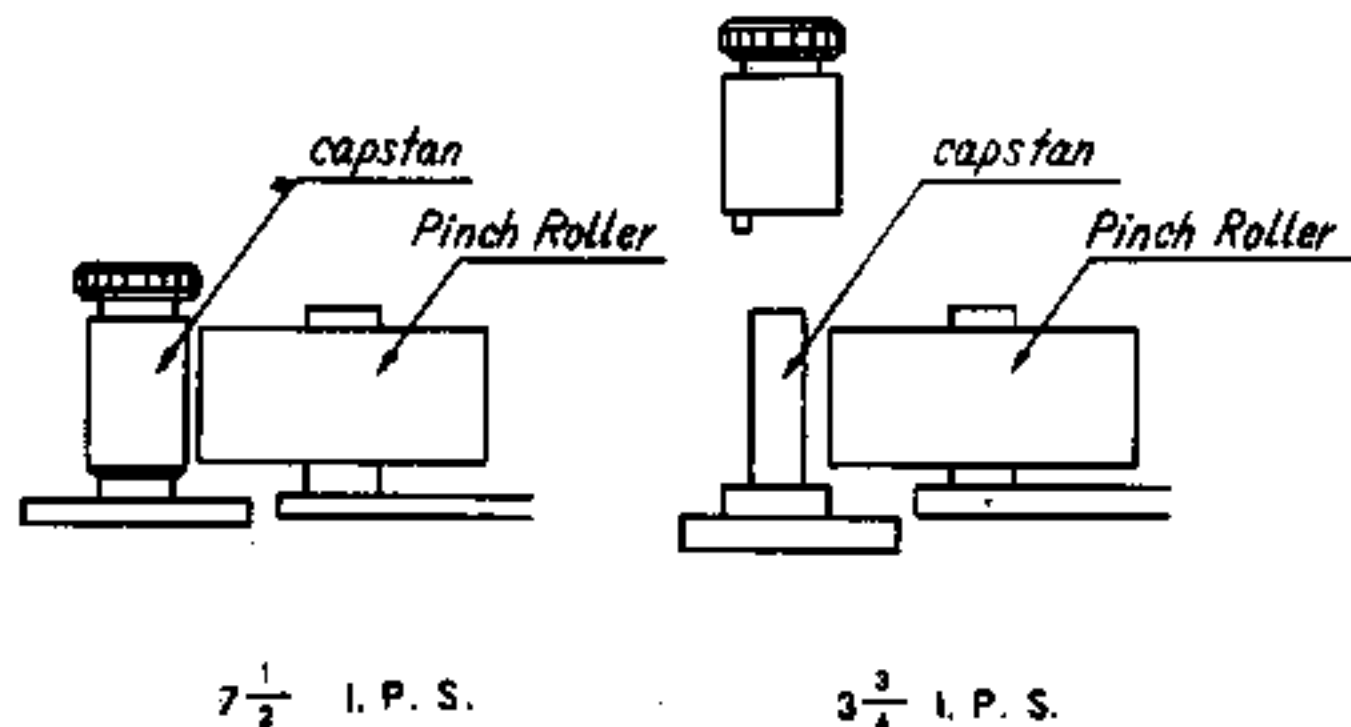
Complete with:	D size 1½ volt battery	3
	9 volt battery (006P)	1
	Microphone	1
	Earphone	1
	5" Tape and Reel	1
	Empty Tape Reel	1
	Instruction Manual	1

### TAPE SPEED

The changing of tape speed is obtained with ease by removing or inserting the capstan sleeve roller. The sleeve is inserted in the capstan firmly to the base for  $7\frac{1}{2}$  i. p. s. (suitable for MUSIC recording) and it is removed for  $3\frac{3}{4}$  i. p. s. (suitable for SPEECH recording). Capstan speed roller should be placed on the storage post when not in use to avoid misplacing it.



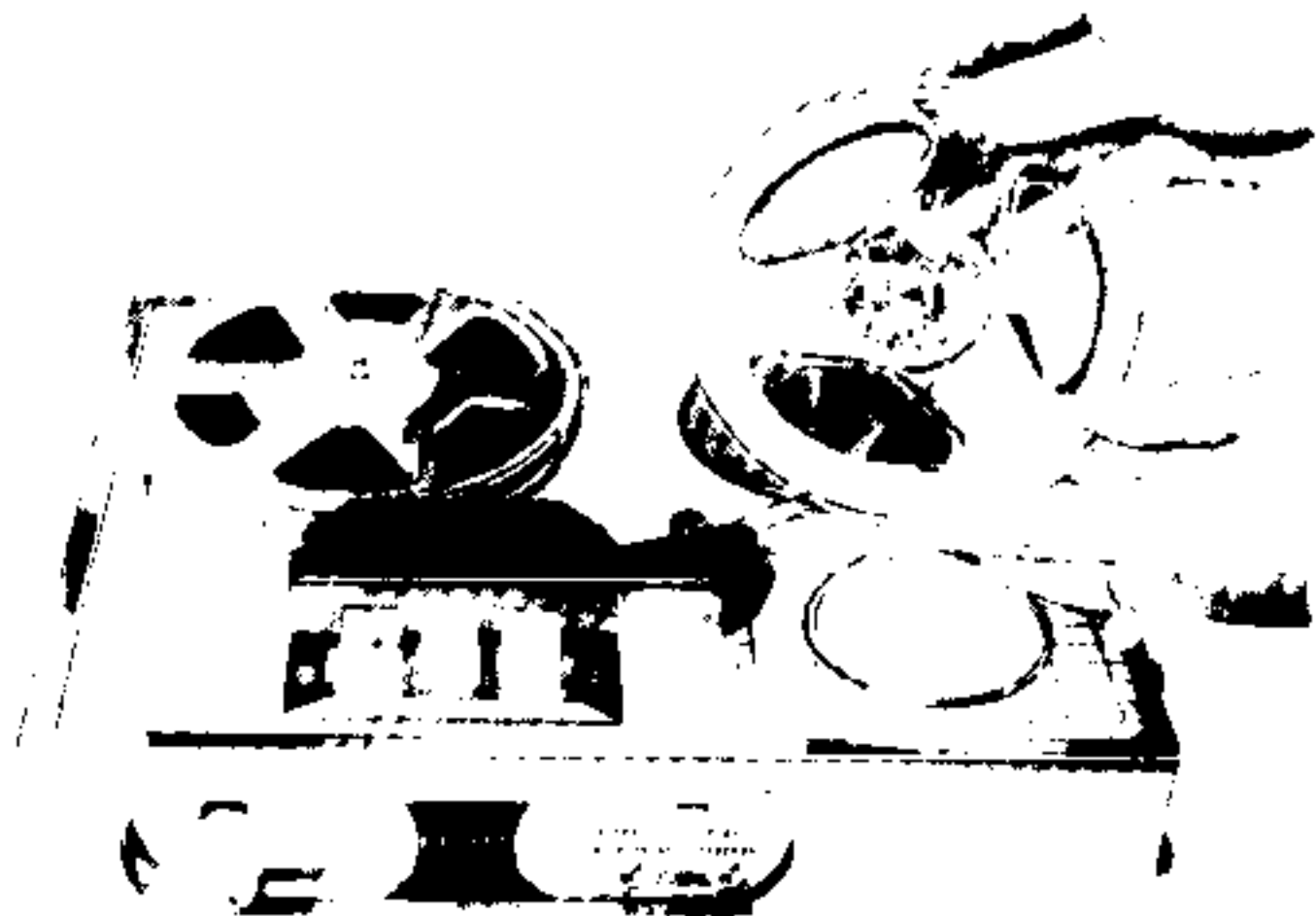
Open the battery cover at the rear of the case. This will expose the battery compartment. The battery door is on a hinge, therefore, it will be easy to insert or replace the batteries. Be sure when inserting batteries flat side of the battery goes in first. The 9 volt battery has a battery cable which snaps. This is very simple to install.



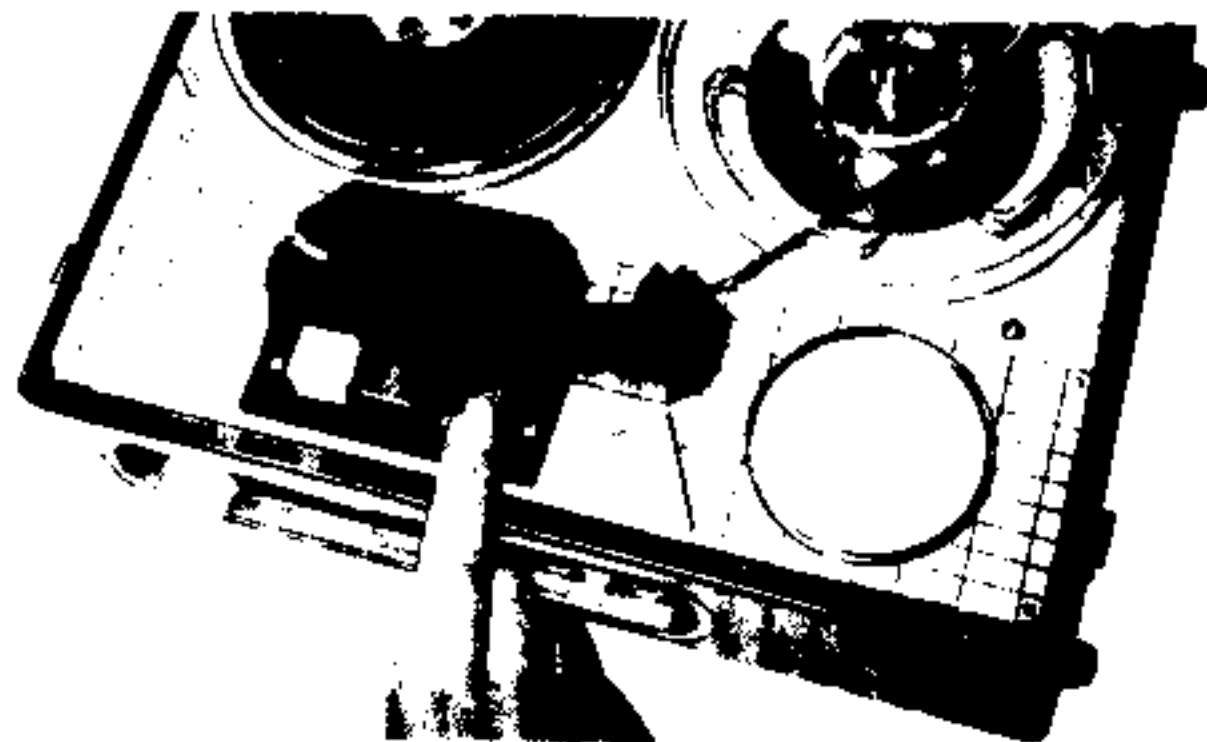
## THREADING THE TAPE

The reel containing the tape is placed on the left spindle and the empty take-up reel on the right spindle. Then reel out the tape from the supply reel and hook it in the tape slot.

The tape is passed between the felt pad and the recording head and also between capstan and pinch roller and then wind the tape anti-clockwise around the take-up reel by hand as much as necessary. Make sure the dull surface (magnetic side) of the tape should face the recording heads, and shiny side of the tape faces the user.



## RECORDING

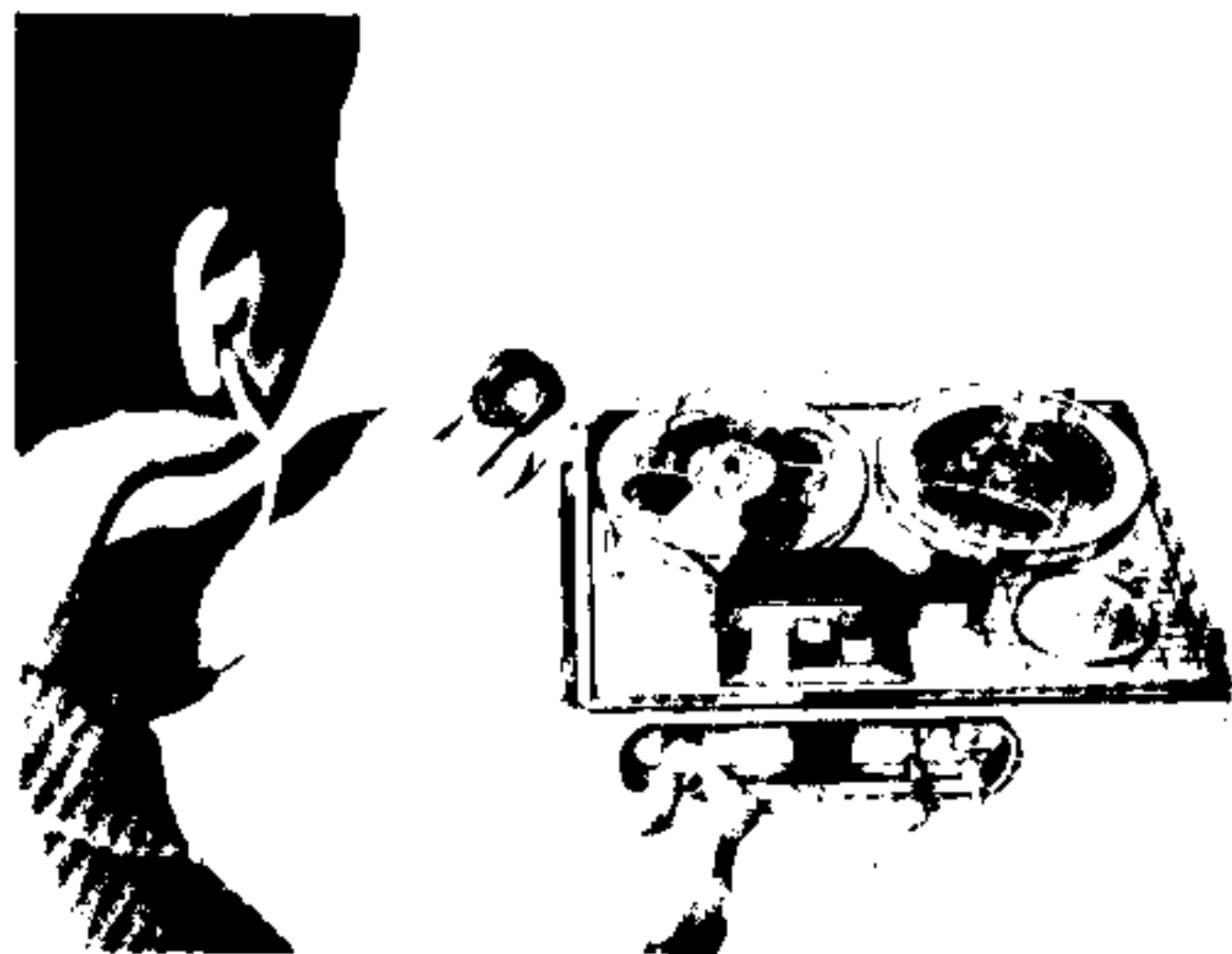


Insert the microphone plug into the microphone jack. If it is not inserted deeply enough, it will not record. Push the slide switch to RECORD position and hold and then press down the blue forward push button. This will lock the slide switch into the recording position. Speak into the microphone in a normal voice keeping it away approximately 4-6 inches from your mouth. Adjust the volume knob on the left side of the panel for best recording. In order to keep the recording volume at the proper level, you can check the sound being recorded by putting the earphone plug into the earphone jack and listen to what is being recorded. If what you hear is too loud or too soft, adjust volume control to the proper volume level either up or down.

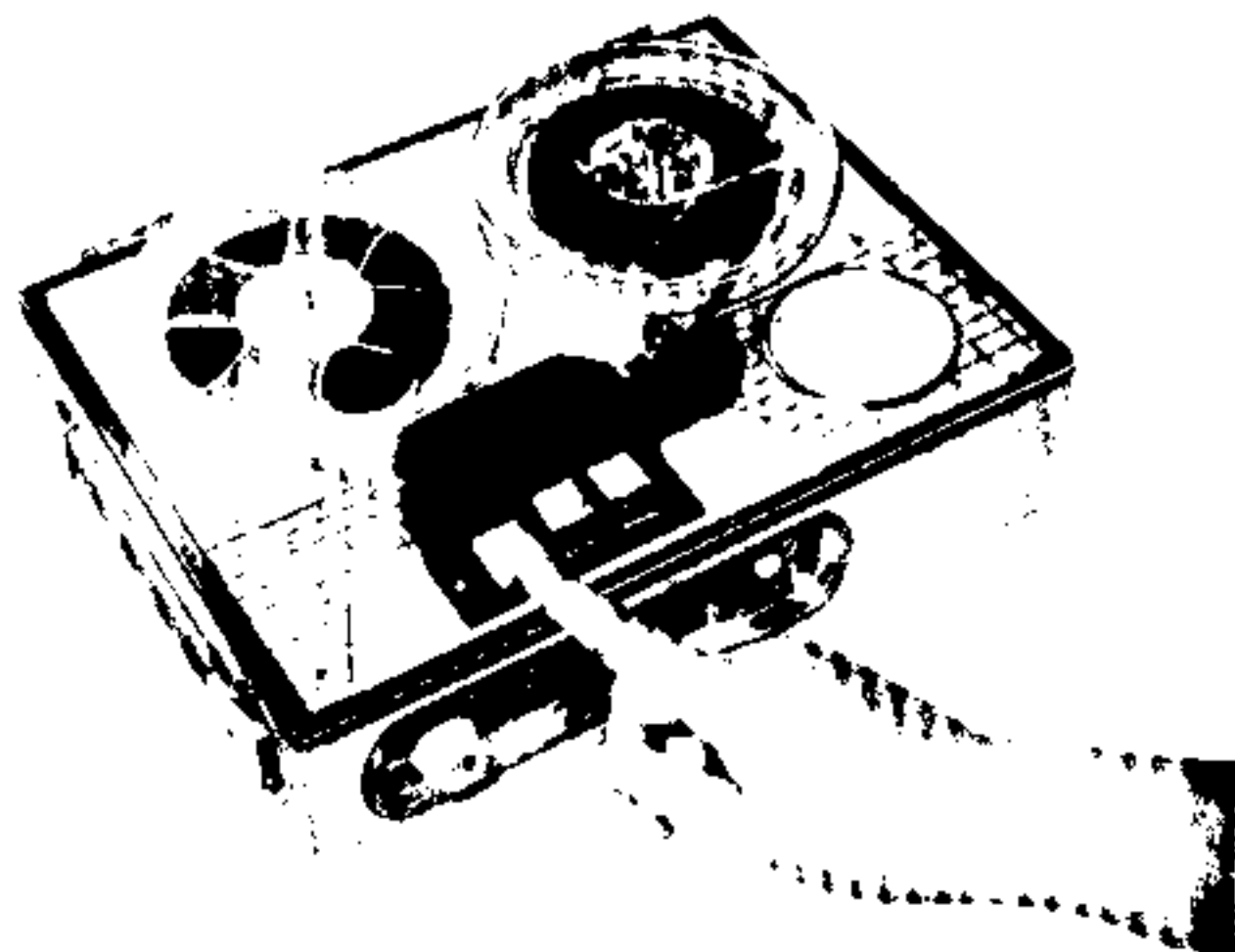
If excessive amount of distortion is noticed, this indicates that the volume level is too high when recording. By keeping the level as low as possible, clear recording can be achieved.

Radio programs may be recorded with the use of microphone. But it is extremely necessary to keep your radio volume low and make sure radio is tuned properly because microphone can pick up noises that is difficult to hear by ear.

**Very Important:** When you finished the recording, push the red stop button. This will automatically put the slide switch into the play position and the tape will stop running.



## REWINDING



Press the white button down and the left reel will rewind the tape. When the desired spot is reached on the recorded tape, press the red stop button down and you are now ready to playback your recorded tape.

## PLAYBACK

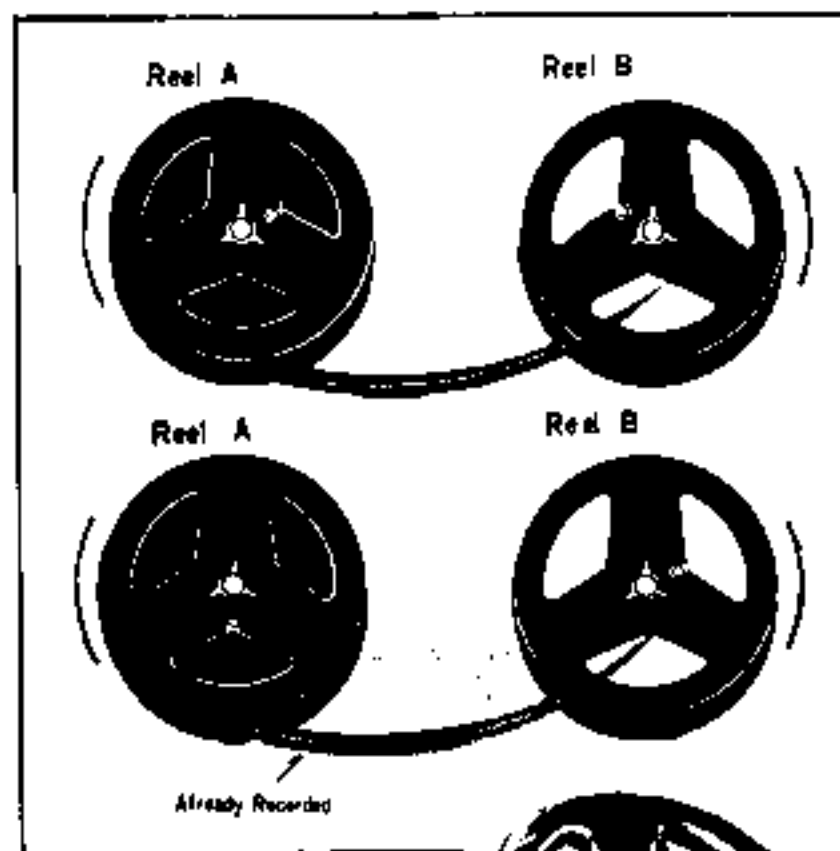
Press the blue forward button down and the tape will start running and you can hear the recorded sound through the speaker. If you want to enjoy private listening, you can hear the sound through the earphone by putting the earphone plug into earphone jack. The speaker is automatically disconnected in case the earphone is inserted into earphone jack.

## ERASING

Inasmuch as erasing is done while recording, it is not necessary to erase the recorded parts of the tape. Simply record over the previous message. If you actually want to erase the tape clean, put the recorder in record position removing microphone and reducing volume to the lowest point.

**Note:** Be sure your recorder is in the record position and also see that the slide switch remains in the record position.

## DOUBLE TRACK RECORDING



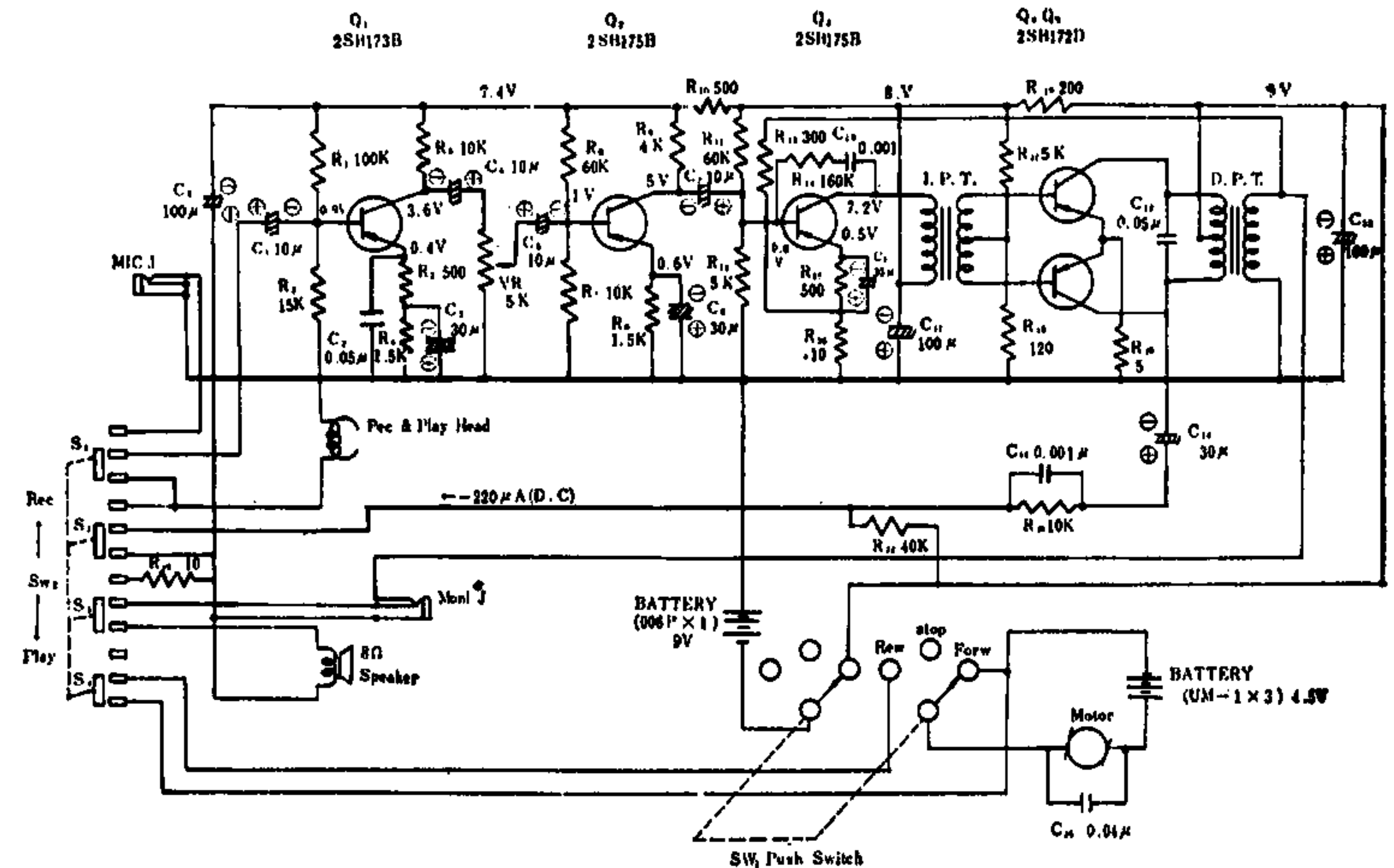
After you complete recording on the full length of the tape, take off the two reels and change the position of them with each other and set them upside down respectively. By this way, you can double the recording time.

## CAUTION

1. If the sound is too weak or tone quality is poor, replace the 9 volt battery. And if the tape speed slows down, replace three 1.5 volt batteries with new ones.
2. This unit will not work properly under low temperature. It is necessary for this recorder to achieve room temperature before using.
3. Always remove batteries from this recorder if it is not in use for any length of time, because due to battery leakage this can cause damage to the battery compartment.
4. Before you use the tape recorder, clean the surface of the head with soft lint-free cloth. Be careful not to damage the pad when you clean the head.
5. If there is oil or dirt on the capstan and pinch roller, the tape will slip. So be sure to keep them clean with a soft cloth.
6. Lubricate the capstan and pinch roller spindles or any moving parts whenever necessary. Do not use more than one small drop of oil on any parts at any time.

NOTICE: COLD WEATHER WILL TEMPORARILY AFFECT THE VOLUME OF THIS TAPE RECORDER.  
 IMPORTANT: BEFORE USING, BE SURE THAT TAPE RECORDER IS AT ROOM TEMPERATURE FOR BEST RESULTS.

## CIRCUIT DIAGRAM



- NOTE: 1. ALL RESISTOR VALUE IN OHMS (K=1,000 OHMS)  
 2. ALL CAPACITOR VALUE IN FARADS ( $\mu = \frac{1}{10^6}$  FARADS)  
 3. VOLTAGE ARE ALL APPROXIMATE BASED ON GROUND POINT