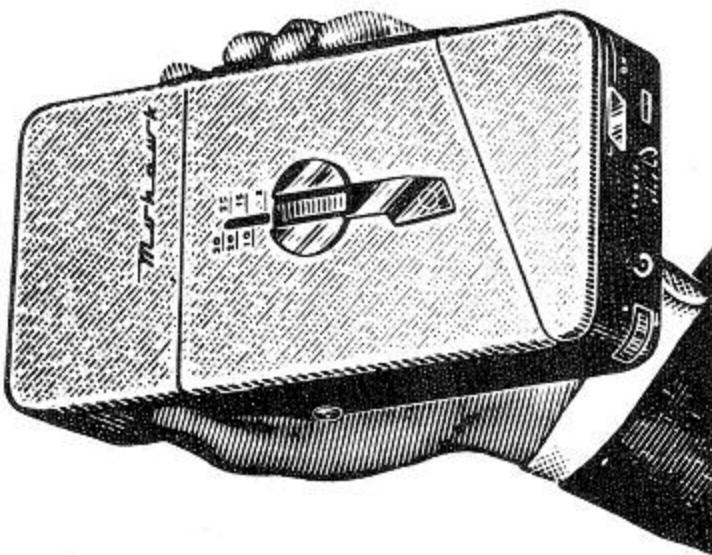


# *Mohawk* midgetape



## ALL TRANSISTOR

# POCKET TAPE RECORDER

MOHAWK BUSINESS MACHINES CORP.  
BROOKLYN 33, NEW YORK

### MIDGETAPE      SPECIFICATIONS

SIZE OVERALL	8 $\frac{1}{2}$ " LENGTH, 3-7/8" WIDTH, 1-7/8" HEIGHT
WEIGHT	LESS THAN THREE POUNDS
MOTOR AMPLIFIER LIFE INDICATOR	INCANDESCENT LAMP
FREQUENCY RESPONSE	150 TO 5,000 C.P.S.
WOW AND FLUTTER	LESS THAN 0.7%
TAPE SPEED	1-7/8" PER SECOND
CONTROLS	THREE - "ON-OFF", "PLAY-RECORD", "VOLUME" COLORED MARKS ON VOLUME CONTROL
RECORDING LEVEL INDICATOR	ONE HOUR
RECORD-PLAYBACK TIME	FOUR TRANSISTORS
TRANSISTOR COMPLEMENT	2,000 OHMS - ONE MV MIN.
INPUT	10 MILLIWATTS AT 2,000 OHMS
OUTPUT	42 DB.
SIGNAL TO NOISE RATIO	78 DB.
OVERALL GAIN	TWO - MICROPHONE, EARPHONE-AMPLIFIER 1/4" IRON OXIDE MYLAR BASE, TWIN TRACK
SOCKETS	20 KC.
TAPE TYPE	20 KC.
BIAS OSCILLATOR FREQUENCY	11 TO 7 VOLTS D.C.
ERASE	SAME AS MOTOR BATTERY
MOTOR OPERATING VOLTAGE	ELECTRO-MECHANICAL GOVERNOR
"B" SUPPLY VOLTAGE	150 DEGREES
MOTOR SPEED CONTROL	
TEMPERATURE COMPENSATED TO	

MIDGETAPE IS CAPABLE OF USING ANY MICROPHONE OF 2,000 OHMS OR LESS, EXCEPT CARBON MICROPHONES.

## MIDGETAPE

### OPERATING INSTRUCTIONS

#### To Open Midgetape Case

Slide door latch from left to right and lift lid up.

#### Loading Tape Cartridge In Midgetape (See Figs. D and E)

- 1) Look through time indicator window in cartridge to determine which side of cartridge is full of recording tape. Pull a 4 to 6 inch loop of recording tape from the cartridge. Place cartridge in Midgetape with "full" side up. Be sure cartridge is seated firmly in its holder. Thread tape around recording head and drive capstan following line of arrows painted on Midgetape chassis.
- 2) Take up loose tape by turning hub in center of cartridge clockwise with your index finger or snap power switch "on" and let the Midgetape take up the loose tape for you. Let Midgetape run for a second or two to be sure that tape is "driving" properly. The Midgetape is now loaded and ready for use. Close cartridge compartment lid. Press it down until it locks.

#### The Midgetape Cartridge

- 1) The standard tape cartridge (RL-60) furnished with each Midgetape is one hour in length.
- 2) The cartridge records for one-half hour on each side. When one side of the cartridge has been recorded, remove it from the machine, turn it over to the other side and insert it again as previously described. The second half-hour is now ready for recording.
- 3) One and one-half hour cartridges (45 minutes recording time on each side) may be purchased at small additional cost. (RL-90)

#### Cartridge Time Indicator

Each side of the Midgetape cartridge has a window in it through which the reel of recording tape may be seen. Along side of the window is a time scale in minutes. The point where the recording tape crosses the time scale indicates the number of minutes recording time left on that side of the cartridge.

### Battery-Life Indicator

The light on the rear side of the Midgetape, which lights when the power switch is "on", is the battery-life indicator. When this light goes completely out, it is an indication that you have approximately two hours of battery life remaining and that the battery needs replacing.

Midgetape batteries, as do others, recharge themselves slightly when not used. It is possible that this recharge may light the battery-life indicator when the Midgetape is first turned "on" even when the battery is weak. Therefore, always check the battery-life indicator two or three times during the first few minutes of Midgetape use to be sure your battery is still in good condition.

### Replacing the Battery (see Figs. B & C)

- 1) Open Midgetape case.
- 2) With your thumbs, spread battery compartment spring clips outward as indicated and lift cover up and back.
- 3) Snap battery into place. Press it in firmly to be sure it is locked on the snap fasteners.

### Batteries

The standard battery furnished with Midgetape is the T-12, which has an operating life of 12 to 18 hours.

A long life Midgetape battery (T-50) is available at an additional cost. It has an operating life in excess of 50 hours.

Battery life fluctuates depending upon the amount of recording done as opposed to playing back, as well as with the volume of play back. Recording uses more current than does playback. Also, the louder the playback volume, the greater the power consumption.

### To Record

- 1) Insert microphone plug into microphone jack.
- 2) Adjust volume control. Best recordings are made when the blue mark on the volume control is approximately underneath the white dot on the case. Increase volume toward red mark for distant recordings. Practice will determine the proper recording volume.

- 3) Place "record-play" switch on "record" position.
- 4) Start Midgetape by snapping power switch to "on" position.
- 5) Hold microphone about 4 inches from your lips and speak. You are now recording.

To Rewind  
(See Fig. F)

- 1) Snap power switch to "off" position.
- 2) Lift rewind crank out of hole in top of case and place in rewind position as indicated.
- 3) Holding the rewind crank down against the case, turn handle clockwise. Never force the handle counter-clockwise.
- 4) Rewind tape to place desired. If you wish to rewind to the beginning of the tape, turn rewind crank until it stops. Do not force crank beyond stopping point or damage may result.
- 5) Always close rewind crank and insert handle in its receptacle before recording or playing. This disengages the red plastic rewind tab and allows the cartridge to turn freely.

IMPORTANT

The Midgetape rewind system is designed so that you may turn the rewind handle as rapidly as you wish. During rewind, however, slack tape may build up in the cartridge. To compensate for this always make four slow turns at the end of the rewind. This, of course, does not apply when you have rewound the cartridge to the very beginning.

To Play

- 1) Place the record-play switch on "play".
- 2) Snap power switch to "on".
- 3) Adjust volume control to the desired level. (usually at the red mark). You may now listen to your recording through the microphone. Accessory earphones may be plugged into the earphone jack if desired or an accessory power amplifier may be used for listening.
- 4) If you wish to repeat the playback of any portion of your recordings, snap power switch to "off", rewind to desired place and again follow instructions "to play".

### To Erase

Midgetape automatically erases old recordings as new ones are made. If you wish to save a recording NEVER RECORD over it because, if you do, it will be erased from the tape.

### Earphones

Earphones for use with Midgetape may be purchased as an accessory. The Midgetape earphone may be used as a single earphone or, with the special lightweight adapter furnished, as a double earphone.

The earphone is inserted into the earphone jack and is used by secretaries for transcribing dictation, etc.

The earphone may also be used to monitor while recordings are being made.

### Built-In Speaker and Amplifier

A miniature speaker and amplifier for loudspeaker playback of recording may be inserted in the Midgetape battery compartment. It may be purchased as an accessory; installation takes but a few minutes. The speaker and amplifier has its own on-off switch and it need only be used when desired. If you do not wish to listen to recordings over the speaker, turn the speaker switch to "off" and listen to the recordings through the microphone or an earphone.

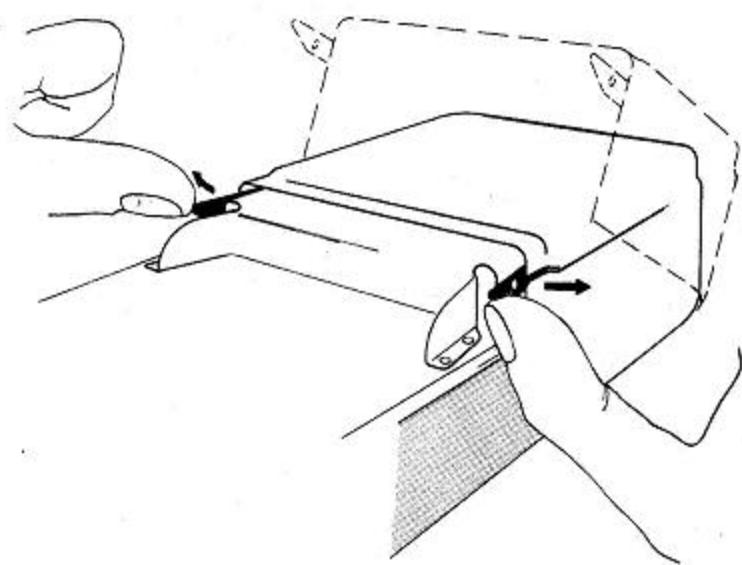


FIGURE B

OPENING BATTERY COMPARTMENT

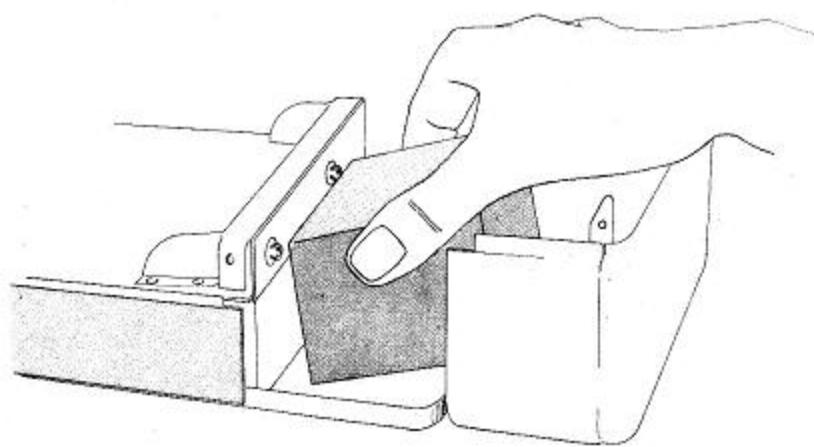


FIGURE C

INSERTING BATTERY

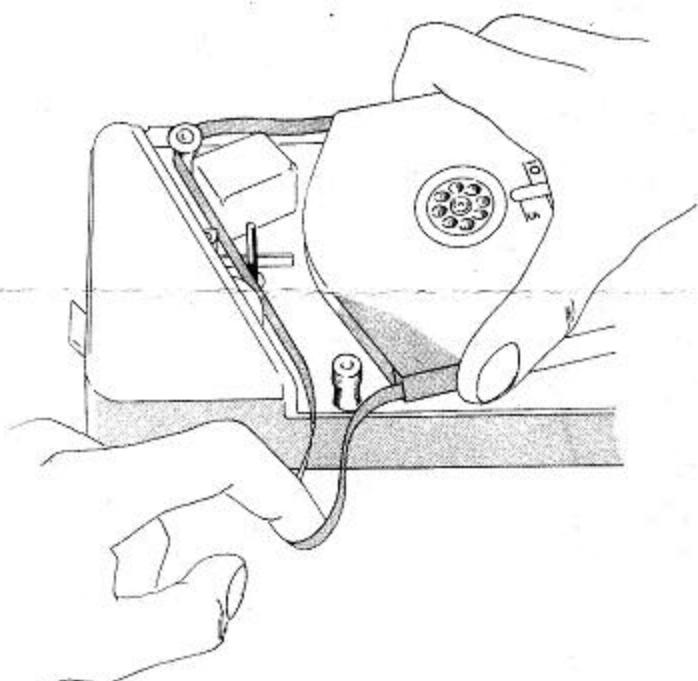


FIGURE D

LOADING CARTRIDGE

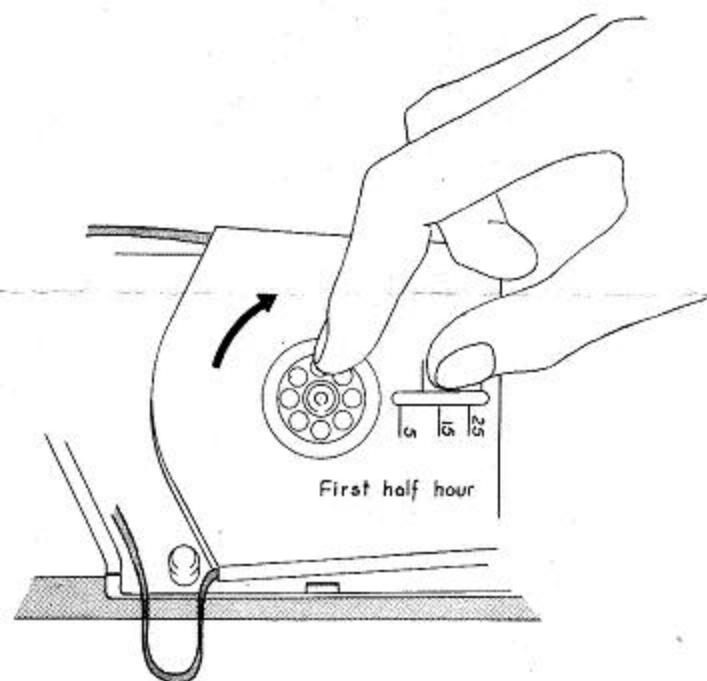


FIGURE E

TAKING UP LOOSE TAPE

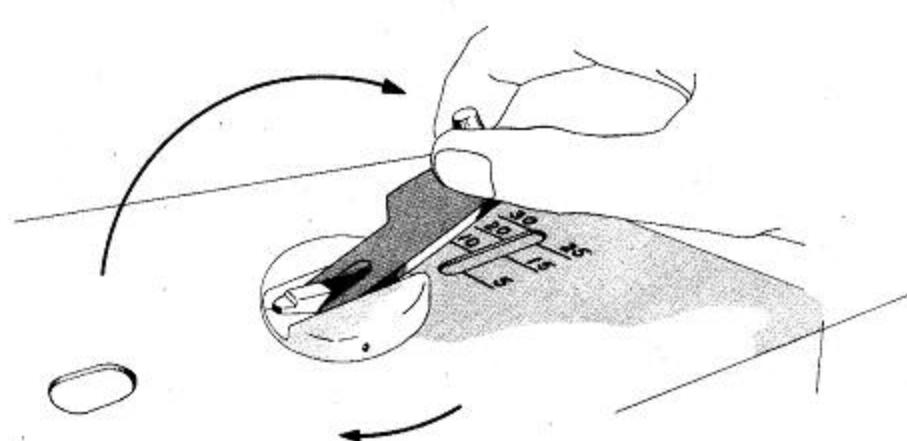
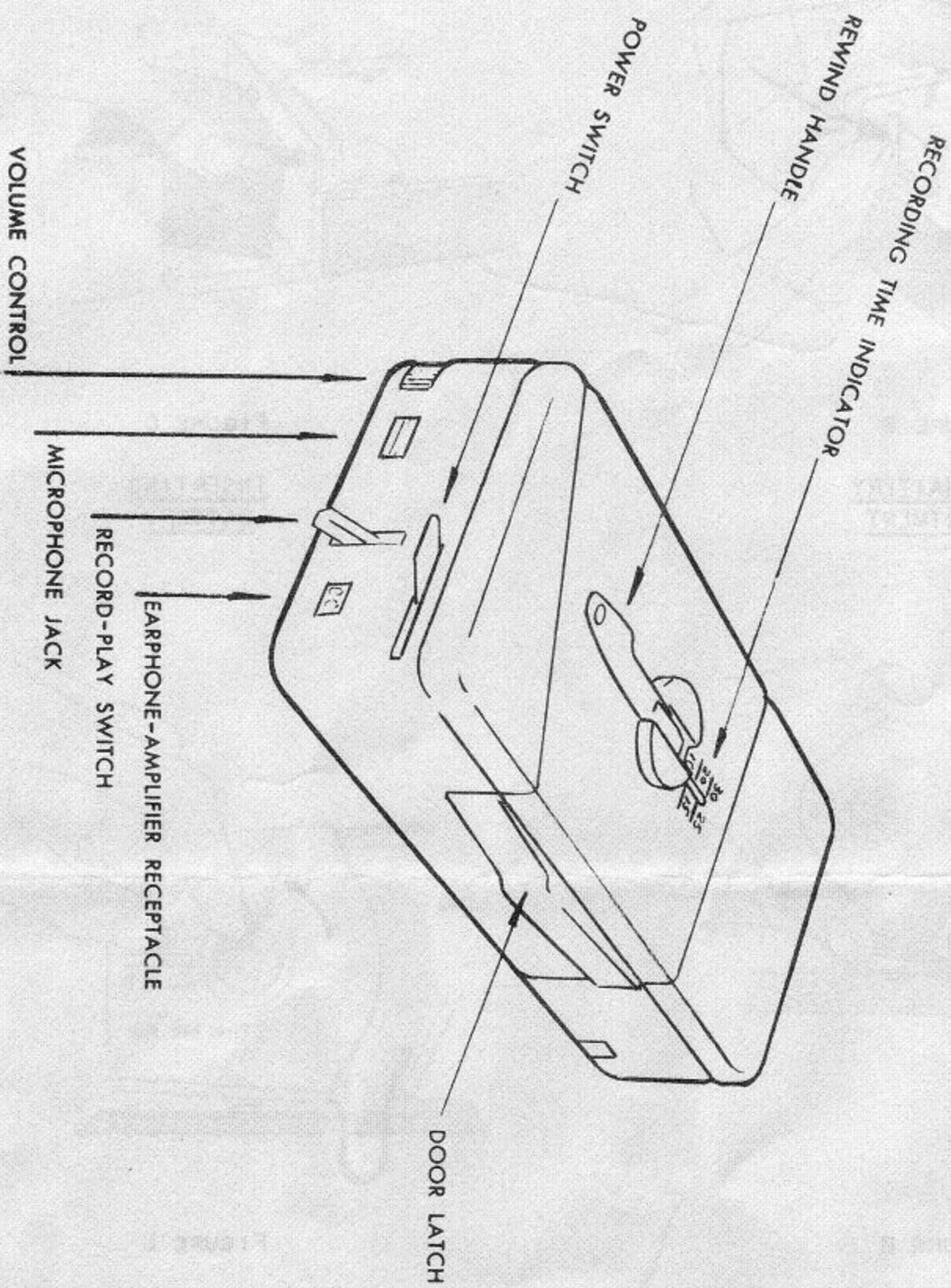


FIGURE F

REWINDING CARTRIDGE



**FIGURE A**