



FTL Design
History of Technology

Timex Magnetic Disc Recorder (1954 - 57)

From *National Jeweler*, October 1954

New TIMEX Magnetic Recorder

Less than 9 lbs. Complete == 9 1/2" x 11 1/2" x 4 7/8" high overall.

Unit, complete with microphone, radio-phonograph cord, eraser magnet and one recording disc \$59.95. Dealer cost \$39.96

Extra Attachments Available

NOW - for the first time, a recorder with all of these features:

- Low cost
- Simple to operate
- Small size
- Plays 45 RPM records
- Discs can be folded and mailed
- Discs compact for storage

This unique new magnetic disc recorder is especially suited to home and family use. It will record 'sound albums' of anniversaries, engagements, children's first words, birthday parties, correspondence in sound from distant friends and relatives. It will record direct from radio, phonograph and TV; and can be used for business recordings.

The unit is as simple to operate as a standard record player; nothing to thread, no tape to break or tangle, no needles to wear out, no complicated controls, no accidental erasures.

The recording discs, iron oxide on a plastic base, are extremely smooth, lightweight and flexible. They can be folded and mailed without damage - only first class postage required. Over 100 discs can be stored in the space required for one standard record album.

New TIMEX
Magnetic Recorder
Records • Plays Back • Plays 45 RPM Records

Less than 9 lbs. complete—9 1/2 x 11 1/2 x 7/8" high overall

Unit, complete with microphone, radio-phonograph cord, eraser magnet and one recording disc
\$59.95 Dealer Cost . . . **\$39.96**

The scans and photos below of the Timex ad, manual, and equipment, were supplied by Joe Urban, whose uncle purchased the machine in 1957. Click on each image for a larger view.



* *Phono Adapter*, returns machine to a speed for 45 rpm phono.

TIMEX MAGNETIC DISC RECORDER

24.95

Make records for a fraction of normal cost! Use it for correspondence... discs can be folded and tucked in an envelope... **NO TAPES** to insert, loop or rewind... the playback is instant! Discs can be used over and over again... with amazing ease magnet! Complete with Shure Microphone... a 15.95 value if bought separately! Dept. 770, Fifth floor.


Phono adapter, reg. 4.95... 3.98
 Package of 6 extra discs, reg. 1.49... 99c

STERN'S NEW YORK, 41 WEST 42nd ST., N. Y. 10018

TIMEX MAGNETIC DISC RECORDER

Operating and Service Instructions

To get things recorded - Guaranteed MODEL 40
Write for Discs Types 70-3
The United States
Time Corporation
Waterbury, Conn.



U.S. Time Corp.
 Waterbury, Conn.

We are happy to welcome you as a new owner of the Timex Magnetic Disc Recorder. The number of uses you will find for your Timex Magnetic Disc Recorder are virtually endless. With it you can make and keep records of your favorite radio and TV artists at a bare fraction of the price it would normally cost you if you bought the records. You can record the voices of your loved ones, preserving the memories of family gatherings, children's first words, parties, birthdays, anniversaries and other happy occasions and, because the discs can be folded and tucked into an envelope like a letter, you can even use them to correspond with friends and relatives. Your Timex Magnetic Disc Recorder can also be used for excellent yet inexpensive business recordings. Moreover, by attaching the special phonograph head, available at slight additional cost, you can even convert your Timex Magnetic Disc Recorder to play 45 RPM records. Truly, never before has anything like this been developed to sell at such an unbelievably low cost. We know your Timex Magnetic Disc Recorder will give you great pleasure for a long long time.

Specifications

MODEL 40
 Turntable Speed—16 2/3 and 45 RPM.
 Frequency Response — 100 to 4000 Cycles per second.
 Power Requirements — 105-125 Volts — 60 Cycle AC ONLY — 80 Watts Max.
 Power Output: 1 Watt undistorted — 1 1/2 Watt Max.
 Input: 10 ohm imp.
 Output: 4" Internal Speaker, 32 ohm.
 Bias Freq: 38 KC
 Drive: Permanent Magnet.

Operating Instructions

PRELIMINARIES

1. With the On-Off Switch in the Off (Left) Position and the speedchange lever at Neutral (N) Position, insert the AC power cord into a convenient wall receptacle of the proper rating.
2. Place Recording Disc on turntable with the dull magnetic coated side up.
3. Place Tracking Disc on top of Recording Disc, making sure to align the white index line on periphery of tracking disc with the small 3/8 diameter index hole in recording disc.
4. Place Stylus in outer groove of tracking disc so recording head rests squarely on an outside part of recording disc.

TO RECORD FROM MICROPHONE

1. Slide the On-Off switch to the right (On) and allow about thirty seconds for the tubes to warm up.
2. Set selector switch to Record (Red) Position (full clockwise).
3. Insert microphone cord plug into the input socket. Adjust the volume control until the zero level indicator flashes at the loudest sound.

TO RECORD FROM RADIO, TELEVISION OR PHONOGRAPH (Fig. 2)

1. Connect the Adapter Clip at the end of the radio cord to the terminals on the radio, television or phonograph speaker and insert cord plug into input socket.
2. Slide the On-Off switch to the right (On) and allow about thirty seconds for the tubes to warm up.
3. Set selector switch to Record (Red) Position (full clockwise).
4. With the volume control of radio, television or phonograph at normal listening level, adjust volume control of recorder until the zero level indicator flashes on the loudest sounds from the radio, television or phonograph.
5. Place the speed change lever at 16 2/3 RPM (H) Position. You are now recording.
6. Remove radio cord and place speedchange lever back to Neutral (N) Position when recording is completed.

TO PLAY BACK A RECORDING

1. Set Selector Switch to Play Position (full counterclockwise).
2. Place Stylus in outer groove of tracking disc so recording head rests squarely on an outside part of recording disc.
3. Place speedchange lever at 16 2/3 RPM (H) Position.

4. Adjust Volume Control for desired listening level.
5. Place speedchange lever back to Neutral (N) Position at end of playback.

BRASING RECORDED MATERIAL (Fig. 3)

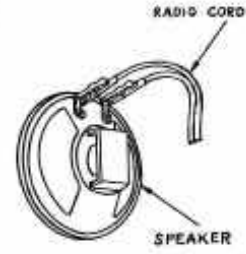
1. With recording and tracking discs in proper position on turntable, set speedchange lever to 16 2/3 RPM (H) Position.
2. Hold Brass Magnet lightly across exposed portion of recording disc for at least one complete revolution of the disc.

TO PLAY 45 RPM PHONOGRAPH RECORDS

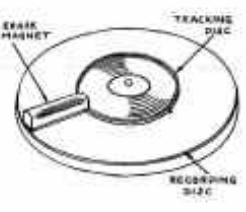
The tone arm of the Timex Recorder is made up of two parts, the tone arm base and the magnetic head. To play 45 RPM phonograph records it is necessary to have the Times Phonograph Attachment KR. This kit consists of a Plug-in phonograph head which is used in place of the magnetic head, and a 45 RPM record adaptor button.

USE AND STORAGE OF MAGNETIC DISCS

Additional magnetic discs are available in envelopes containing six (6) discs plus adhesive backed, easily applied labels for indicating subject matter and date of recording. The labels may be applied on either side and near the center of the disc. Discs should be stored flat and in the envelope.



RADIO CORD
 SPEAKER



ERASE MAGNET
 TRACKING DISC
 RECORDING DISC

FIGURE 2
 FIGURE 3

SERVICE INSTRUCTIONS

The Timex Magnetic Disc Recorder may be serviced by a competent radio or television serviceman with the help of the following instructions, schematic and parts list.

TO CHANGE TUBES

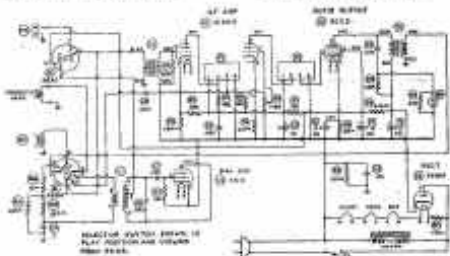
1. Unscrew four (4) screws through rubber fasteners at bottom of cabinet.
2. Remove filter board bottom plate.

TO SERVICE PARTS INSIDE CHASSIS

1. Unscrew four (4) flat head screws holding metal bottom plate.
2. Remove metal bottom plate.

TO REMOVE CHASSIS FROM CABINET

1. Remove Push-On type volume control and selector switch knobs.
2. Remove both metal and filter board bottom plates as prescribed previously.
3. Unhook motor leads and tone arm leads at termination points in chassis.
4. Unhook speaker leads at speaker terminals.
5. Slide chassis out of cabinet.



PARTS LIST

Ref. No.	Pt. No.	DESCRIPTION	Ref. No.	Pt. No.	DESCRIPTION
81		TUBE, A. P. Amp	87		Filtering Con. 1 Meg
82		6X4 Audio Output	88		Selector Switch
83		6X5 6AR5	89		On-Off Switch
84		6X4 6Y4 Diode	90		Input Transformer
85		Cap. 100K 50V @ 100 20 @ 50	91		Output Transformer
86		Cap. 100K 50V @ 100 20 @ 50	92		Max. Dia. Cap.
87		Cap. 100K 50V @ 100 20 @ 50	93		Neon Level Indicator
88		Cap. 100K 50V @ 100 20 @ 50	94		Therm. Coupler
89		Cap. 100K 50V @ 100 20 @ 50	95		Neon Rectifier
90		Cap. 100K 50V @ 100 20 @ 50	96		Indicator Lamp #1
91		Rectifier, 250V, 1/2 W/100V	97		Complete Amplifier Assembly
92		6X4	98		Control Panel and Cabinet Assembly
93		6X5	99		Speaker
94		6X6	100		Knobs
95		6X8	101		Turn Arm Base Assembly
96		6X4	102		Magnetic Head Assembly
97		6X5	103		Radio Unit Assembly
98		6X6	104		Microphone Assembly
99		6X8	105		Disc Magnet Assembly
100		6X4	106		Microphone Attachment Kit #04
101		6X5	107		Carrying Case #04
102		6X6	108		Recording Disc Package #01
103		6X8	109		

IMPORTANT

When making or playing back a recording be sure to place the index mark on the outside of the tracking disc over the index hole in the recording disc. If sound is indistinct or confused or if recording was not properly indexed when made, proper performance is easily obtained by rotating the tracking disc on the recording disc for the clearest sound.

WARNING

Be sure to RETURN SPEED CHANGE LEVER TO NEUTRAL WHEN RECORDER IS NOT IN USE. This will prevent flat spots on the turntable drive resulting in poor reproduction.





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