

The Remarkable **REVOX**



**Model
No. G-36**

*W*idely acclaimed throughout the world for its superb craftsmanship, the ReVox tape recorder is now available for the first time in U.S. and Canadian markets. The discriminating audiophile is well aware that there can be no compromise with quality and that the excellence of tape recordings is directly dependent on the skill and care used in the manufacture of their tape recorder. Quality control, constant checking and testing during every phase of ReVox manufacture and the use of highly rated components are the hallmarks of this superior instrument.

ReVox is backed by a tradition of almost two decades in the manufacture of studio and broadcast tape equipment. The experience gained has resulted in ideas which have been incorporated into each ReVox. The ReVox, the instrument of choice by amateur and professional tape recordists, is also used in numerous industrial applications, in universities, as a teaching aid . . . and as the focal point in home entertainment centers. Its applications are seemingly limitless. Its quality is singular.

The REMARKABLE REVOX G-36 TAPE RECORDER

SPECIAL DESIGN OF THE REVOX

Three PABST Outer-Rotor Motors

Three motors are usually found only in professional tape recorders. This rather costly design assures optimum performance especially regarding to wow and flutter, and it is mechanically simple without containing any fast wearing parts.



A design unique for an motor recorder. Consisting of five castings, three parts, plus screws to one casting, form the very rigid unit which carries the head-back and tapeguide. This assures perfect and permanent head alignment under the roughest operating conditions. The powerful hysteresis-Synchronous-Motor and the heavy accurately balanced bracket are mounted in a divided case. The radius of the Capstan shaft must not exceed 0.001 mm in order to pass inspection. This is a degree of accuracy found only in studio and broadcast equipment.

6/12 Pole Hysteresis-Synchronous Motor

The heavy-duty direct drive capstan motor is a hysteresis synchronous unit. The speed is electrically changed by controlling the number of poles. Maximum playing time can be had by setting the tape speed at 3 1/4 i.p.s., or superior quality by using a tape speed of 7 1/2 l.p.s.

Anti-Wow and Anti-Flutter Design

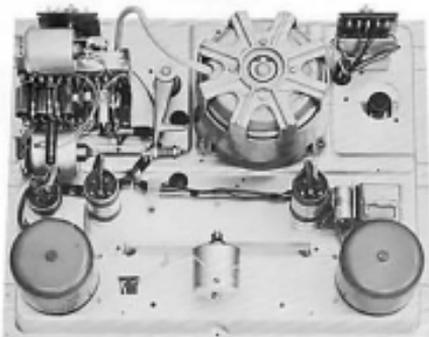
The speed of the heavy-duty Pabst motor for the capstan is locked in with the power-line frequency, assuring remarkable uniformity of capstan shaft speed rotation. The motor is completely shielded, eliminating any stray magnetic motor flux. Precision bearings on the drive shaft removes the lateral pressure caused by the pinch roller and protect the motor from any uneven load.

Tape Reels Up to 10 1/2" Diameter

Maximum recording or playback time is assured through the use of reels having a diameter of 10 1/2". These reels will accommodate up to 4800 feet of LP tape. Rewind can be accomplished in a few moments. Tape tension is controlled with a simple, easily operated, readily accessible control, which is designed so that large reels cannot be placed into position when it is set for reduced tape tension.

Separate VU-meters for each channel

The VU meters on the ReVox are precision instruments with dynamic characteristics as required by the A.S.A. in the standard for volume measurement of complex waves. Accurate control of recording level is possible. Scale illumination of these meters is switched with the channel selector for added operating convenience.



With the use of three motors the ultimate in simplicity can be achieved. Two motors for winding and rewinding and a third, the Capstan motor, for smooth and even tape transport during recording and replaying. There are no belts—other than that for the counter—no levers and no gears required for engaging the various operating modes.

Solenoid Operated, Oversized Brakes

The brake bands are lifted off the linings during any operating mode. The required tape tension is achieved electrically by counter-torque on the winding motors. This assures minimum wear of mechanical parts. Braking is quick and positive from fast wind, even in the event of power failure.

Mechanical Tape Stop

Because of the very fast winding speeds used by the ReVox, the instrument does not depend on metal contacts for stopping the recorder. A microswitch senses the end of the tape and turns off the motor circuits automatically after a reel has been rewound. Automatic motor shutoff also takes place when a tape splice has opened.

Built-in Mixing Facilities

The mixing arrangements provide for the one pre-amplifier not in use for recording to be coupled with the other pre-amplifier through which the recording is being made, with neither gain control acting as a master. Thus, any two signals may be mixed and recorded in the mono mode. The same controls are used for adjusting level and balance when recording stereophonically. Additionally, one channel can be set to playback while the other is recording and all forms of sound-on-sound and sound-with-sound are possible.

Separate Record and Playback-Amplifiers for both channels

The record amplifier has a reserve gain of 14 db before any distortion. Through the use of separate heads for record and play, continuous monitoring becomes possible.

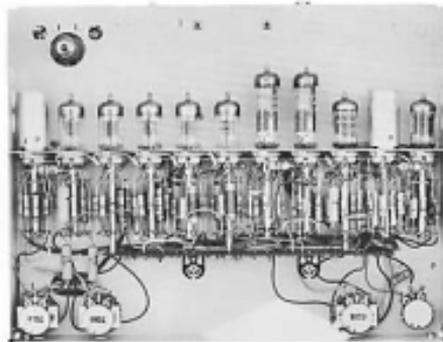
Hum Level

Every effort has been made to keep hum at an absolutely minimum level. The first stages of the amplifier have d.c. heated filaments. The power transformer has a grain oriented strip-wound core providing a minimum of stray magnetic field, reducing hum pickup.

HERE ARE GOOD REASONS WHY THE REVOX IS BETTER...

Professional Features of the REVOX

- Push-button electrical control of all operating modes
- Spool turns counter
- Remote control facility
- Recorder can be used as an amplifier by switching off the capstan motor
- Additional low-impedance speakers can be connected
- Handy carrying case with pockets for two 10 1/2" reels
- Constant speed hysteresis-synchronous heavy duty Babst motor using direct drive of capstan. No belt or friction drives for the capstan shaft
- No pressure pads to clean — no pressure pads to wear out. This assures long head life and avoids longitudinal vibrations of the tape
- Three ring-core heads (2- or 4-track)
- Separate Babst Outer-Rotor motors for wind and rewind
- Tape speeds of 7 1/2 and 3% i.p.s. obtainable through pole switching of capstan motor
- Reel size selector assures uniform tape tension for reels up to 10 1/2 inches
- Recorder may be operated horizontally or vertically. Tape reels can be locked on to their shafts
- Two separate recording and replay amplifiers
- Cathode-follower low-impedance outputs
- Six-watt built-in monitor amplifier
- Two VU-meters with dynamic characteristics as per the ASA for individual record level control
- Both inputs may be mixed for mono-recordings
- Duoplay (sound with sound), Multiply (sound on sound) and echo are possible without accessories



a glance at the amplifier chassis reveals components of the highest quality and generally found in home equipment. Simple and easy to follow wiring takes the problems out of servicing.

Tubes

In addition to three silicon diodes and three selenium rectifiers, the ReVox uses a total of twelve dual function tubes. Each stage has been designed for single function operation. No simplification, with attendant technical compromise, has been permitted.

Oscillator Bias

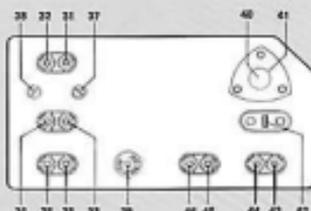
A 70 kc push-pull oscillator is used for highest erase efficiency, optimum signal-to-noise ratio and low signal distortion.

POSITION OF CONTROLS



1. Supply reel
2. Tape guide pin
3. Take-up reel
4. Position indicator (3 digit counter)
5. Counter reset
6. Push button—fast rewind
7. Push button—fast forward
8. Push button—play
9. Push button—stop
10. Push button—recording
11. Black button depressed: tape speed 2 1/2 i.p.s.
12. Red button depressed: tape speed 7 1/2 i.p.s. Both buttons in mid-position: capstan motor switched off
13. Black button depressed: recording on Channel I (left-hand channel), upper tape section
14. Red button (downward): recording on Channel II (right-hand channel), lower tape section
15. Power switch OFF-ON: switch is mounted on base control
16. Tone control: bass will increase if turned clockwise
17. Channel selection switch for internal monitor amplifier and for low-impedance outputs 43 and 44
18. Monitor amplifier volume control
19. Input source selection switch I (on stereo, for left-hand channel) R: Tuner D: Diode input M: Microphone
20. Input level control (recording) for channel I
21. Input source selection switch II (on stereo, for right-hand channel)
22. Input level control (recording) for channel II
23. VU-meter channel I
24. VU-meter channel II
25. Tape tension switch

CONNECTION PANEL (Rear)



31. Microphone input—channel I unbalanced
32. Microphone input—channel II unbalanced
33. Diode input—channel I unbalanced
34. Diode input—channel II unbalanced
35. Tuner input—channel I unbalanced
36. Tuner input—channel II unbalanced
37. Potentiometer for setting of sensitivity of input 33
38. Potentiometer for setting of sensitivity of input 34
39. Socket for remote control switch
40. Fuse
41. Fuse holder
42. Socket for external 8-ohm speaker
43. Low-impedance output channel I —for stereo amplifier
44. Low-impedance output channel II —for stereo amplifier
45. Low-impedance output channel I —for individual track reproduction or for automatic slide projection with the Revox "Slide-O-Matic"
46. Low-impedance output channel II —for individual track reproduction or for automatic slide projection with the Revox "Slide-O-Matic"



The REMARKABLE **REVOX** G-36 TAPE RECORDER

TECHNICAL SPECIFICATIONS

- Tape speeds:** 7½ and 3% i.p.s.
Speed accuracy: ± 0.3%
Wow and flutter: max. ± 0.1% at 7½ i.p.s.
Tape speed deviation: 0.3%, or less, from nominal
Frequency response: 40 to 18,000 cps at 7½ i.p.s.
40 to 12,000 cps at 3% i.p.s.
(+2, -3 db)
Equalization: NAB standards.
Replay s/n ratio: better than 50 db referred to peak level
Overall s/n weighted: 55 db at 7½ i.p.s., for half-track operation
Cross-talk rejection: mono 55 db; stereo 45 db
Bias oscillator: 70 kc, push-pull
Inputs per channel: Microphone — 3 mv at 1 megohm input impedance
600 mv maximum
Tuner — 50 mv at 1 megohm, 10 V max.
Aux — 50 mv at 47,000 ohms (diode)
Outputs: Two cathode-follower outputs
0.7 V (2-track) 0.5 V (4 track)
Impedance: 5,000 ohms and 100,000 ohms
Tubes and Semiconductors: 5 — ECC81 1 — ECC82 4 — ECC83 2 — ECL86
3 silicon diodes, 3 selenium rectifiers
Line voltage: 117 V, 60 cps
Power Consumption: 120 watts
Weight: approx. 45 lbs.
Case dimensions: 18½" x 12¼" x 11½"
Color: Gray and aluminum frame with blue-gray plastic
Price: \$500 (2-track ReVox recorders available on special order)

REVOX — another Elpa quality product distributed in the U. S., Canada and Puerto Rico.



ELPA MARKETING INDUSTRIES, INC.
NEW HYDE PARK, N. Y.