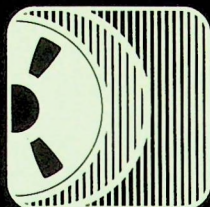


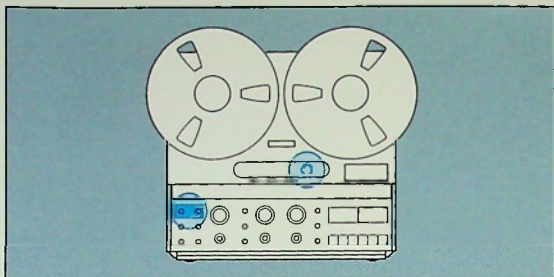
REVOX B77-LS

LOW-SPEED
 $1\frac{7}{8}$ - $3\frac{3}{4}$ ips (4,75-9,5 cm/s)



REVOX B77-LS Low-Speed 17/8–33/4 ips

Technical Data



Externally the B77-LS differs only in that its speed selector buttons are labelled 17/8 and 33/4 ips. The capstan motor runs at a reduced number of rpm and it is equipped with a thinner capstan shaft

APPLICATION

With the slow tape speed of 17/8 ips, the B77-LS provides for 6 hours of uninterrupted recording and is thus highly economical as far as tape consumption is concerned. The recording quality satisfies the highest demands for speech intelligibility even at the slow tape speed. Thus the B77-LS is the ideal tape machine to record the proceedings of a meeting, for announcements in public address applications or as an "acoustical guide" in museums, art galleries, etc. The LS version is also well suited to make music recordings for control or checking purposes or for the reproduction of background music.

VARIANTS

With the tape speeds of 17/8–33/4 ips, the B77-LS occupies the position between the standard version and the Super-Low-Speed version. The recorder employs the NAB equalization characteristic and can be had in either the 2- or 4-track format.

LOW-SPEED (LS)	
Tape transport mechanism:	3-motor tape drive 2 AC driven spooling motors, 1 AC driven capstan motor, electronically regulated
Tape speeds:	17/8 ips and 33/4 ips electronic change-over Tolerance from nominal: $\pm 0.2\%$ With external accessory, speed variable: from 11/4 ... 51/2 ips
Wow and flutter: (DIN 45507/consistent with IEEE standard 193-1971)	at 17/8 ips less than 0.2% at 33/4 ips less than 0.1%
Tape slip:	max 0.2%
Reel size:	up to 10.5 inch diameter (min. hub diameter 2.36 inches), tape tension switchable (for small hub diameters)
Winding time:	approx 135 sec for 3600 ft of tape
Tape transport control:	Integrated control logic with tape motion sensor provides for any desired transition between different operating modes. Contactless electronic switching of all motors. Remote control of all functions and electric timer operation are possible
Equalization:	17/8 ips: NAB 120–3180 μ sec 33/4 ips: NAB 90–3180 μ sec
Frequency response: (measured via tape, at -20 VU)	at 17/8 ips: 40 Hz ... 10 kHz $\pm 2/-3$ dB at 33/4 ips: 40 Hz ... 16 kHz $\pm 2/-3$ dB 50 Hz ... 10 kHz ± 1.5 dB
Peak recording level:	257 nWb/m corresponds to 6 dB above 0 VU
Level metering:	VU meters in accord with ASA C165 plus LED peak indicators
Distortion:	at 0 VU + 6 dB (nWb/m) (257) at 17/8 ips: <3% at 33/4 ips: <1.5%
Signal to noise ratio: (measured via tape, ASA A weighted)	Half track: at 17/8 ips better than 56 dB at 33/4 ips better than 58 dB Quarter track: at 17/8 ips better than 52 dB at 33/4 ips better than 54 dB
Crosstalk: (at 1000 Hz)	Stereophonic: better than 45 dB Monophonic: better than 60 dB
Erase depth:	better than 75 dB
Inputs per channel:	MIC (unbalanced): Position L0 : 0.15 mV/22 k ohms for 50 ... 600 ohms microphones Position H1 : 2.8 mV/110 k ohms for microphone impedances up to 20 k ohms RADIO : 2.8 mV/20 k ohms AUX : 40 mV/220 k ohms
Overload margin on all inputs:	40 dB (1 100)
Outputs per channel: (level at 6 dB above 0 VU/514 nWb/m)	OUTPUT : 155 V max. range of presets 26 dB. RL ≥ 20 kOhm RADIO : 155 V max. range of presets 26 dB. RL ≥ 20 kOhm PHONES : (2x) max 5.6 V, short-circuit proof, optimum matching impedance 200 ... 600 ohms
Connectors for:	Remote control of tape transport functions. Remote control of variable tape speed. Slide projector or crossfade unit (electronics optional)
Semiconductor complement:	11 IC, 1 opto-coupler, 4 Triac, 61 transistors, 30 diodes, 5 LED, 3 full wave rectifiers, 3 relays
Electric current supply: (voltage selector)	100, 120, 140, 200, 220, 240 V 50 ... 60 Hz, max 80 watts
Mains fuse:	100 ... 140 V 1 A slow blowing 200 ... 240 V 0.5 A slow-blowing
Weight:	approx 37 lbs. 7 ozs (17 kg)
Dimensions:	17.8 x 16.3 x 8.14 inches (452 x 414 x 207 mm) (W x H x D) Required clearance for 10.5 inch reels: max width 21.2 inches (538 mm), max height 18.25 inches (463.5 mm)

Capstan Motor Specifications:

Capstan shaft diameter:	118 mil (3.0 mm)
Type of Motor	Low speed
Nominal motor speeds:	300 and 600 rpm
Speed control circuit:	Low speed

All figures quoted are minimum performance values as measured with REVOX 621 mastering tape normally exceeded by all units

Worldwide distribution: REVOX ELA AG, Althardstrasse 146, CH-8105 Regensdorf-Zürich, Switzerland

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