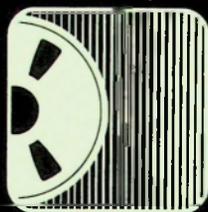


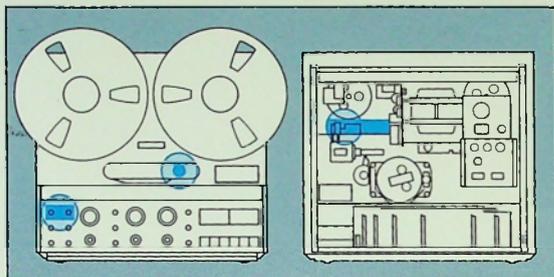
REVOX B77-SLS

SUPER-LOW-SPEED
 $\frac{15}{16}$ - $1\frac{7}{8}$ ips (2,38-4,75 cm/s)



REVOX B77-SLS Super-Low-Speed $15/16$ – $17/8$ ips

Technical Data



Externally the B77-SLS differs only in that its speed selector buttons are labelled $15/16$ – $17/8$ ips. The capstan motor runs at a reduced number of rpm and it is equipped with a thinner capstan shaft.

APPLICATION

The B77-SLS with its extremely slow tape speed of $15/16$ inches per second provides for uninterrupted recording over a 12 hour period. By utilizing two recorders, around the clock operation becomes thus possible.

Even at this slow tape speed, the recording quality is more than adequate to provide for good speech intelligibility. The B77-SLS is the natural choice for applications where a continuous log of program events is to be recorded. The second channel may be utilized to record a time signal for example.

The B77-SLS is the ideal recorder for keeping a continuous record of the intelligence present in wire bound or wireless communication systems.

For automatic recording another special version, known as the B77 AUTO START, is available.

VARIANTS

The B77-SLS operates at the very slow speeds of $15/16$ and $17/8$ ips. The recorder is available in either the $1/2$ or $1/4$ track format.

SUPER-LOW-SPEED (SLS)	
Tape transport mechanism:	3 motor tape drive, 2 AC driven spooling motors, 1 AC driven capstan motor, electronically regulated
Tape speeds:	$15/16$ ips and $17/8$ ips electronic change over $\pm 0.2\%$
Tolerance from nominal	
With external accessory, speed variable:	(usable at $17/8$ ips only)
Wow and flutter:	at $15/16$ ips less than 0.3%
(DIN 45507/consistent with IEEE standard 193-1971)	at $17/8$ ips less than 0.2%
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:	$15/16$ ips 200 μ sec $17/8$ ips 120 μ sec
Frequency response:	at $15/16$ ips: 60 Hz ... 4 kHz $\pm 2/-3$ dB at $17/8$ ips: 60 Hz ... 8 kHz $\pm 2/-3$ dB (measured via tape, at -20 VU)
Peak recording level:	140 nWb/m corresponds to 6 dB above 0 VU
Level metering:	VU meters in accordance with ASA C16.5 plus LED peak level indicators
Distortion:	at 0 VU + 6 dB (nWb/m): (140) at $15/16$ ips: <3% at $17/8$ ips: <3%
Signal to noise ratio:	Half track: at $15/16$ ips better than 52 dB at $17/8$ ips better than 52 dB Quarter track: at $15/16$ ips better than 48 dB at $17/8$ ips better than 48 dB (measured via tape, ASA-A weighted)
Crosstalk:	Stereophonic: better than 45 dB (at 1000 Hz) Monophonic: better than 60 dB
Erase depth:	better than 75 dB
Inputs per channel:	MIC (unbalanced) Position LO : 0.15 mV/2.2 kohms for 50 ... 600 ohms microphones Position HI : 2.8 mV/110 kohms for microphone impedances up to 20 kohms RADIO : 2.8 mV/20 kohms. AUX : 40 mV/220 kohms
Overload margin on all inputs:	40 dB (1:100)
Outputs per channel:	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 crosslade unit (electronics optional)
Semiconductor complement:	12 IC, 1 opto coupler, 4 Triac, 61 transistors, 30 diodes, 5 LED, 3 full wave rectifiers, 3 relays
Electric current supply:	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:	150 and 300 rpm
Speed control circuit:	Super 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 Zurich, Switzerland

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