

REVOX B77-AUTO Autostart



APPLICATION

The B77-AUTO versions are suited especially for the automatic recording of sporadically occurring intellegence.

The standard speed version will satisfy the highest demands on tonal quality in any surveillance application while the low speed and particularely the super low speed models are intended primarily for the automatic recording of messages passing through wire bound or wireless communication systems. The second track can be utilized for the simultaneous recording of a time signal for example.

THE CONCEPT

AUTO-START recorders are equipped with an additional circuit to initiate the recording mode whenever a signal reaches one of the machine's two recording channels. With "automatic" selected (button AUTO/MANUAL) the tape transport controls on the recorder are disabled, start and stop of the record function is then under the control of the auto-start logic. A remote control device, when connected to the recorder, will remain effective however. Separate threshold controls in each channel permit individual adjustment of the setting of the record level controls.

Whenever a signal reaches the recorder's inputs whose level exceeds the preset threshold, the record mode will be effected immediately (provided the record function has been preselected for the desired channel). At the cessation of the input signal, recording is maintained over a certain period of time before the machine stops to await the next command. This period of delayed stopping can be adjusted internally over the range from 1 to 10 seconds approximately.

VARIANTS

B77-AUTO recorders are available in the speed combinations standard, low speed and super low speed in either the 2- or 4-track format. NAB equalization characteristics are used in the standard and low speed versions.



Pressing the button AUTO changes the B77 recorder from normal to automatic record activation.



The threshold for automatic record activation can be adjusted for each channel separately and independent of the setting of the record level controls.



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Technical Data

	AUTOSTART (STANDARD/AUTO)	(LS/AUTO)	(SLS/AUTO)
Tape transport mechanism:	3-motor tape drive. 2 AC driven spooling mot	ors. 1 AC driven capstan motor, electronica	ally regulated
Tape speeds:	3¾ ips and 7½ ips	11/8 ips and 33/4 ips	¹⁵ / ₁₆ ips and 17/ ₈ ips
Tolerance from nominal	electronic change-over	electronic change-over +0.2%	electronic change-over +0.2%
With external accessory.		<u> </u>	
speed variable:	trom: 21/2 11 ips	from 1¼ 5½ ips	(usable at 173 ips only)
Now and flutter:	at 21/ inc loss than 0.1%	at 176 inc loss than 0.2%	at 15% inclose than 0.3%
with IEEE standard 193-1971)	at 7¹/2 ips less than 0.08%	at 3¼ ips less than 0.1%	at 1% 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 it of tape		
Tape transport control:	Integrated control logic with tape motion sen	sor provides for any desired transition bet	ween different operating modes
	Contactless electronic switching of all motors	. Remote control of all functions and elec	tric timer operating are possible.
Equalization:	3¾ ips: NAB 90-3180 µsec 7½ ips: NAB 50-3180 µsec	1% ips: NAB 120-3180 μsec 3¾ ips: NAB 90-3180 μsec	15/16 ips: 200 μsec 17/8 ips: 120 μsec
Frequency response:	at 3¾ ips:	at 11/8 ips:	at ¹⁵ /16 ips:
(measured via tape, at - 20 VU)	30 Hz 16 kHz +27-3 dB 50 Hz 10 kHz ±15 dB	40 Hz 10 kHz + 27 - 3 aB	60 Hz = 4 kHz + 27 - 3 dB
	at 71/2 ips:	at 3¾ ips:	at 11/8 ips:
	30 Hz 20 kHz +2/-3 dB	40 Hz 16 kHz + 27 - 3 dB	60 Hz 8 kHz + 2/ - 3 dB
	50 Hz 15 kHz ±15 dB	50 Hz 10 kHz ±1.5 dB	140 -11/5 (
Peak recording level:	to 6 dB above 0 VU	to 6 dB above / 0 VU	to 6 dB above 0 VU
Level metering:	VU meters in accordance with ASA C16.5 pl	us LED peak level indicators	
Distortion:	at 0 VU at 0 VU + 6 dB	at 0 VU + 6 dB	at 0 VU + 6 dB
	(nWb/m): (257) (514) at 33/4 ins: <1% <2.5%	(nWD/m): (257) at 17/8 ins: <3%	(nWb/m) (140) at ¹⁵ /is ins: ≤ 3%
	at 71/2 ips: <0.6% <1.5%	at 3¾ ips: <1.5%	at 11/8 ips: <3%
Signal to noise ratio:	Half track:	Half track:	Half track:
(measured via tape,	at 31/1 ips better than 64 dB	at 1 1/2 ips better than 56 dB	at 15/16 ips better than 52 dB
ASA:A weighteu)	Quarter track:	Quarter track:	Ouarter track:
	at 31/2 ips better than 60 dB	at 1 % ips better than 52 dB	at 15/16 ips better than 48 dB
	at 7½ ips better than 63 dB	at 3 ³ / ₂ ips betier than 54 dB	at 1 % ips better than 48 dB
Crosstalk: (at 1000 Hz)	Stereophonic: better than 45 dB Monophonic: better than 60 dB		
Erase depth:	at 71/2 ips better than 75 dB	better than 75 dB	better than 75 dB
Inputs per channel:	MIC (unbalanced)		botter than . 5 ab
	Position LO: 0.15 mV/2.2 kohms for 50 600 ohms microphones		
	Position H1: 2.8 mV/1100 kohms for microphone impedances up to 20 kohms RADIO: 2.8 mV/20 kohms AIIX: 40 mV/220 kohms		
Overload margin on all	RADIO: 2.8 (117) 20 Kolinis, AUX. 40 (117) 22	O ROUTIS	
inputs:	40 dB (1:100)		
Outputs per channel:	OUTPUT: 1.55 V max, range of presets 26 dB, $R_L \ge 20$ kohms		
OVU/514 nWb/m)	PHONES: (2x) max, range of presets 26 dB, RL ≥ 20 konms PHONES: (2x) max 56 V short-circuit proof, optimum matching impedance 200 600 phms		
Connectors for:	Remote control of tape transport functions. Remote control of variable tape speed. Slide projector (electronics optional)		
Semi-conductor complement:	13 IC, 1 opto-coupler, 4 Triac, 66 transistors, 37 diodes, 5 LED, 3 full wave rectifiers, 3 relays		
Electric current supply:	100, 120, 140, 200, 220, 240 V		
(voltage selector)	50 60 Hz, max 80 walts		
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)		
Additional Data			
Threshold level for AUTO	min. 150 mV	Starting Time:	max. 0.5 sec
Turn off delay": '(adjustable if required)	110 sec (internally adjustable)	(nom standby)	
All figures quoted are minimum	nerformance values as measured with REVOX 6	21 mastering tane normally exceeded by	all unite

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