

REVOX B77-HS High-Speed 19–38 cm/s

Technical Data





The B77-HS recorder can be recognized by the $7V_2$ -15 ips labelling of its speed selector buttons and by its thicker capstan shaft.

APPLICATION

The high tape speed greatly facilitates the recording of treble frequencies, but most important, it provides for improved modulation capability (less tape saturation) at the upper spectrum end. The B77-HS is intended primarily for the production of master tapes which are then used for further processing (duplicating, disc cutting). A further advantage lies in the ease of editing due to the information being spread over a greater length of tape.

VARIANTS

The B77-HS version with its tape speeds of $7\frac{1}{2}$ -15 ips is intended especially for use by professionals, this being the reason why it is available in the two track format only, yet it can be had with equalization characteristics conforming to either the IEC (CCIR) or NAB standards. For the end user the choice of one or the other characteristic will depend on already existing tape recordings or equipment (compatibility).

	HIGH-SPEED (HS)
Tape transport mechanism:	3-motor tape drive. 2 AC driven spooling motors. I AC driven capstan motor, electronically regulated
Tape speeds:	7 ¹ /2 ips and 15 ips, electronic change-over
Tolerance from nominal:	±0.2%
With external accessory,	from 5 22 inc
Wow and flutter:	at 7 ¹ /2 ins less than 0.08%
DIN 45507/consistent	at 15 ips less than 0.06%
with IEEE standard 193-1971)	
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 diameter)
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.
	of all functions and electric timer operation are possible
Equalization:	7 ¹ /2 ips: 15 ips:
	NAB 50-3180 µsec or NAB 50-3180 µsec or
Fragman tar	TEC 70 µsec IEC 35 µsec
frequency response: Imeasured via tane	at 1/2 ips: at 15 ips: 30 Hz 20 kHz + 2/-3 dB 30 Hz 22 kHz + 2/-3 dB
at -20 VU)	50 Hz 15 kHz ±1.5 dB 50 Hz 18 kHz ±1.5 dB
Peak recording level:	514 nWb/m corresponds to 6 dB above 0 VU
Level metering:	VU meters in accord, with ASA C16.5 plus LED peak indicators
Distortion:	at 0 VU at 0 VU + 6 dB
	(nWb/m) (25/) (514)
	at 15 ips: <0.6% <1.5%
Signal to noise ratio:	Half track:
(measured via tape,	at 71/2 ips better than 67 dB
ASA-A weighted)	At 15 (psibeller than 68 dB
(at 1000 Hz)	Monophonic: better than 60 dB
Erase depth:	at 71/2 ips better than 75 dB
Inputs per channel:	MIC (unbalanced),
	Position L0: 0.15 mV/2.2 kohms for 50 600 ohms microphones
	to 20 kohms
	RADIO: 28 mV/20 kohms. AUX: 40 mV/220 kohms
Overload margin on all	40 JP (1.100)
Autoute per channels	AUTPUT: 155 V max range of prosets 26 dB
(level at 6 dB above	$R_1 \ge 20 \text{ kOhm}$
0 VU/514 nWb/m)	RADIO: 155 V max, range of presets 26 dB.
	$R_L \ge 20 \text{ kOhm}$
	impedance 200 600 chris
Connectors for:	Remote control of tape transport functions. Remote control
	of variable tape speed. Slide projector or crossfade unit
Comisenductor	12 IC Loolo sources 4 Trice 61 transistore 20 diedes 5 LED
complement:	3 full wave rectifiers, 3 relays
Electric current supply:	100, 120, 140, 200, 220, 240 V
(voltage selector)	50 60 Hz, max. 80 watts
Mains fuse:	100 140 V: 1 A slow-blowing 200 220 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 Spi	ecifications:
Capstanshaft dlameter:	356.7 mil (9.06 mm)
Type of Motor:	High Speed
Naminal mater ana day	400 000

 Speedcontrol circuit:
 Standard

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

Worldwide distribution:

REVOX ELA AG, Allhardstrasse 146, CH-8105 Regensdorf-Zurich, Switzerland

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