

The Amplifier Section

- Provides 5 push-button switches for selecting the input source to be heard through the loudspeakers.
- Provides independent selection of any of the inputs to be fed to the two tape recorder circuits. All selections remain stored in the memory when the unit is turned off, so do not require re-programming when the B780 is turned on again.
- Pre-Main provision is included. If you wish to feed the output of the preamplifier to another unit (such as a graphic equalizer or other audio-processing accessory) and return the output to the power amplifier of the B780, it is as easy as plugging in the appropriate cables.
- A push-button controlled "loudness contour" switch automatically compensates for the ear's relative insensitivity at the extremes of the frequency spectrum when the volume is low. Further, a pushbutton is provided to mute the sound by 20 dB so you can answer a telephone without discomfort and then instantly return to your normal listening level. Three tone controls - bass, treble, and mid-range "presence" - permit full-range tonal adjustments, and a "Tone Defeat" switch is provided instantly to bypass these circuits for comparison with flat response. A rotary selector switch permits use of either or both high-cut and low-cut filters, and a further switch is provided for selection of two speaker systems.
- The large heat-sink and the power transformer as well as are monitored by thermal sensors. Should a dangerous situation develop, the B780 is automatically turned off. Additional protective circuits constantly monitor current and voltage conditions at the speaker output terminals fully protecting the connected speaker system.

Technical Data:

a. Tuner Section:	
Tuning range:	87.50 ... 107.975 MHz station tuning by means of a quartz referenced frequency synthesizer a) direct entry of frequencies in 25 kHz steps via keyboard b) by FREQUENCY STEP UP/DOWN counting in 25 kHz steps c) by AUTO TUNING UP/DOWN in 50 kHz steps
Station preselection:	18 user programmable station selector keys for quartz accurate station selection in accordance with a 25 kHz channel pattern
Tuning Accuracy:	±0.0025%
Digital displays:	5 digits for tuned-in frequency; 2 digits for TUNING MODE;
Tuning meters:	Signal strength: log. 0 ... 100 dBµV (0 dBµV = 1 µV/75 ohms) log. 10 ... 110 dBf (0 dBf = 10 ⁻¹⁵ watts) lin. 20 kHz/mm Center tuning: 1.9 µV/300 ohms (10.8 dBf)
IHF (30-dB) monophonic 50 dB quieting sensitivity:	2.5 µV/300 ohms (13.2 dBf)
IHF (IHF-T-200) stereophonic 50 dB quieting sensitivity:	30 µV/300 ohms (34.8 dBf)
Image rejection [f_s + (2 × f_i):	106 dB
IF rejection f_i:	110 dB
Spurious response ratio [f_s + (f_r/2):	106 dB
Capture ratio (at 65 dBf):	2 dB
Selectivity adjacent channel (average):	16 dB
Selectivity alternate channel (average):	78 dB
AM suppression:	70 dB
Subcarrier product rejection:	72 dB
Frequency response:	30 Hz ... 15 kHz ±1 dB switchable 50 or 75 µs
Deemphasis:	with built-in NOISE REDUCTION UNIT; 25 µs
Total harmonic distortion at 65 dBf:	Mono: Stereo: 100 Hz: 0.15% 0.35% 1 kHz: 0.1% 0.25% 6 kHz: 0.2% 0.2%
Stereo separation at:	100 Hz: 40 dB 1 kHz: 42 dB 10 kHz: 33 dB
Signal to noise ratio at 65 dBf:	mono: 78 dB stereo: 74 dB
Muting thresholds:	mono: adjustable from 17.3 ... 37.3 dBf stereo: adjustable from 25.2 ... 65.2 dBf
Antenna inputs:	60 ... 75 ohms coaxial 240 ... 300 ohms balanced
Audio outputs:	75 kHz deviation/400 Hz equals 0.7 Volt at the output TAPE 1 15 kHz deviation/400 Hz produces 70 watts/8 ohms at the output SPEAKERS A/B
Oscilloscope output (to analyze multipath interferences):	vertical (Y): 50 mV/75 ohms, RF = 1 Volt horizontal (X): 75 kHz deviation = 2.8 Volt pp
Options:	a) Dolby* a decoding unit; may be added after removal of the left-hand side panel, no alignments required. b) Antenna Rotator: Control can be retrofitted at any Revox service depot. Operates in conjunction with the STOLLE "programmatic" antenna rotator system 2031.

b. Amplifier Section:

Power output:	70 watts/channel min. RMS into 8 ohms from 20 Hz-20 kHz with no more than 0.05% THD 0.03% at rated output less than 0.03% at rated output
Total harmonic distortion (1 kHz):	less than 0.03% at rated output
IHF intermodulation distortion (14 kHz/15 kHz):	less than 0.08% at rated output
TIM distortion (Otaia, Lowpass):	1 dB
Dynamic headroom:	15 V/µs 30 V/µs
Slow rate:	limited by internal low pass filter: without low pass filter: 20 Hz ... 20 kHz, ±0 dB/-0.7 dB better than 100 at 8 ohms and 1 kHz
Frequency response:	20 Hz ... 20 kHz, ±0 dB/-0.7 dB
Damping factor:	better than 100 at 8 ohms and 1 kHz
Inputs:	sensitivity for 70 watts (8 ohms)/impedance 150 mV/50 kohms 3 mV/47 kohms, 220 pF 1 V/50 kohms
Input overload margin:	PHONO, AUX, TAPE 1 + 2: better than 30 dB
Outputs:	DIN connector TAPE 2/OUT: SPEAKERS A, B: 23.7 V (8 ohms) TAPE 1 (phono sockets): 135 mV/R _i min. 47 kohms PRE OUT (DIN connector): 0.85 V/R _i min. 10 kohms PRE AMP OUT (phone jack): 0.85 V/R _i min. 47 kohms PHONES: 11.8 V/R, 220 ohms (rms value, unweighted 20 Hz ... 20 kHz, relative to 70 W/8 ohms) better than 90 dB better than 82 dB (all inputs terminated with 1 kohm)
Signal to noise ratio:	PHONO 1 + 2 (ref. 5 mV, A-weighted): on all inputs better than 70 dB 20 Hz ... 20 kHz ±0.5 dB
Crosstalk (at 1 kHz):	on all inputs better than 70 dB
Phono-equalization (in accordance with IEC 98, MOD 4 1976, consistent with "new" RIAA):	
Tone controls:	BASS: ±8 dB at 120 Hz TREBLE: ±8 dB at 8 kHz PRESENCE: ±8 dB at 3 kHz
Filter:	LOW: 50 Hz, -3 dB (12 dB/Octave) HIGH: 8 kHz, -3 dB (12 dB/Octave)
Loudness (volume -40 dB):	100 Hz + 5 dB, 10 kHz + 6 dB
c. General Data:	
Electric current supply:	100, 120, 140, 200, 220, 240 V AC ±10% (voltage selector) line frequency: 50 ... 60 Hz power consumption: 550 W max.
Main fuse:	100 ... 140 V AC: 5 Amp. slow-blow 200 ... 240 V AC: 2.5 Amp. slow-blow
Current supply for memory unit in case of power failure:	by means of three NiCad batteries IEC KR 15/51 which can be inserted in compartment under front flap.
Semi-conductor complement:	122 transistors, 99 diodes, 19 variable capacity double diodes 46 IC, 1 micro-processor, 4K x 8 Bit, 5 bridge rectifiers, 9 7-Segment displays.
Weight (mass):	37 lbs 8 ozs (17 kg)
Dimensions (W x H x D):	17.8 x 6 x 16.5 inches (452 x 151 x 420 mm)

All figures quoted are minimum performance values normally exceeded by all units. Subject to change.

Revox B780.

STUDDER **REVOX**



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REVOX
B 77 - STEREO TAPE RECORDER



**Revox
B77.**

The Revox B77 Tape Deck

*Professional Quality Performance
Simple, Reliable Operation
Unexcelled Musical Quality*

With the Revox B77 audiophile recording comes so near perfection that technological shortcomings are no longer the limiting factor in musical enjoyment.

Successor to the world-acclaimed A77 and heir to the proud tradition that has made Studer studio recorders the standard of the industry, the B77 is fully professional in performance, yet penultimately easy to load and use. The touch of a button brings you up to three hours of matchless uninterrupted high fidelity on each side of a single reel.

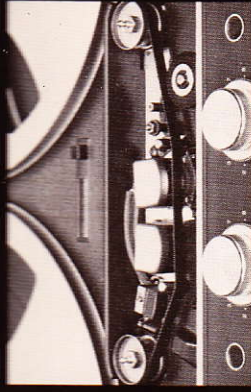
A straightforward, drop-in slot makes threading quick and foolproof, and ample access to the tape heads and built-in splicer facilitate head cleaning and editing. The transport uses light-touch, computer-grade push-buttons whose to activate of sophisticated electronic control system made up of transistors, thyristors and integrated circuits.

Tape motion is constantly sensed automatically, and a protective circuit ensures that you will never snarl or snap a tape even if you go directly from fast-forward into play. The logic circuitry in the B77 will store the playback instruction and execute it only after the tape has come to a gentle, positive stop. This is particularly important because the Revox B77 is designed to accommodate the professional-size, 10½-inch metal reels whose 3600-foot tape length (six hours of stereo at 3.75 ips) gives them considerable high-speed momentum. With the B77, however, access to any point on the tape is always rapid and safe, and pinpoint locating is facilitated by an accurate, 4-digit counter.

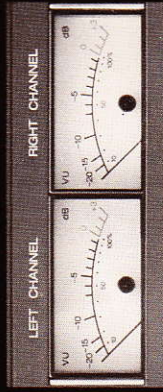
The two reel motors are triac-controlled, with a tension switch providing optimum torque for either large or small reels. The capstan is direct-driven through a servo-mechanism that ensures constant, accurate speed even in the presence of power-line fluctuations.

Standard speeds are 7½ and 3¾ ips, with a high-speed, 15 and 7½ ips model available. For special applications models with 3¾ and 1⅞ ips or even 1⅞ and 15/16 ips may be ordered.

To facilitate operation, the controls on the B77 are ergonomically grouped, with the record section in the center, the playback controls on the left, and the transport keys on the right. The twin record/playback indicators are precision VU-ballistic instruments with clearly-marked dB/VU scales, and are supplemented by inertia-less, peak-reading LED's.



A motion sensor which reports the tape transport status to the control system is mounted underneath the right hand side tape drive motor.



The Revox B77 Tape Deck Proven Professional Design

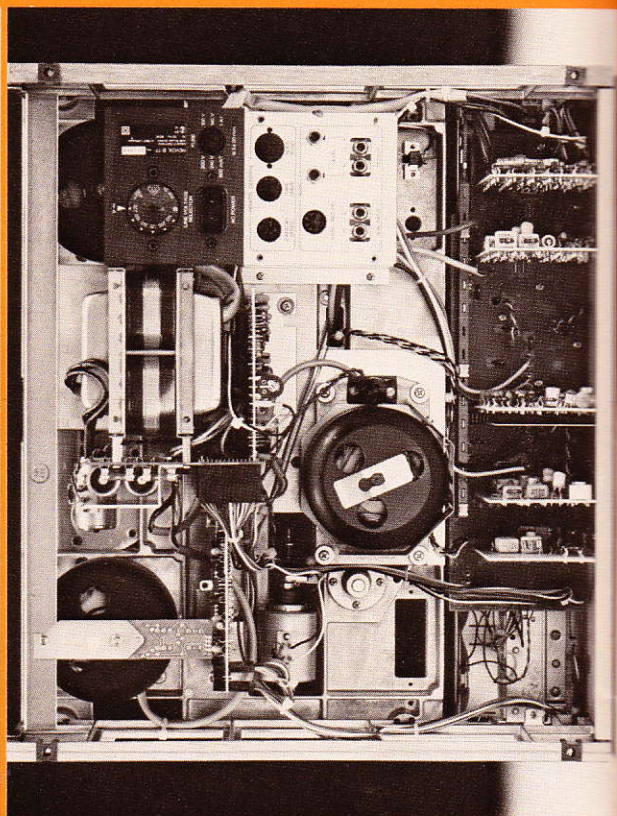
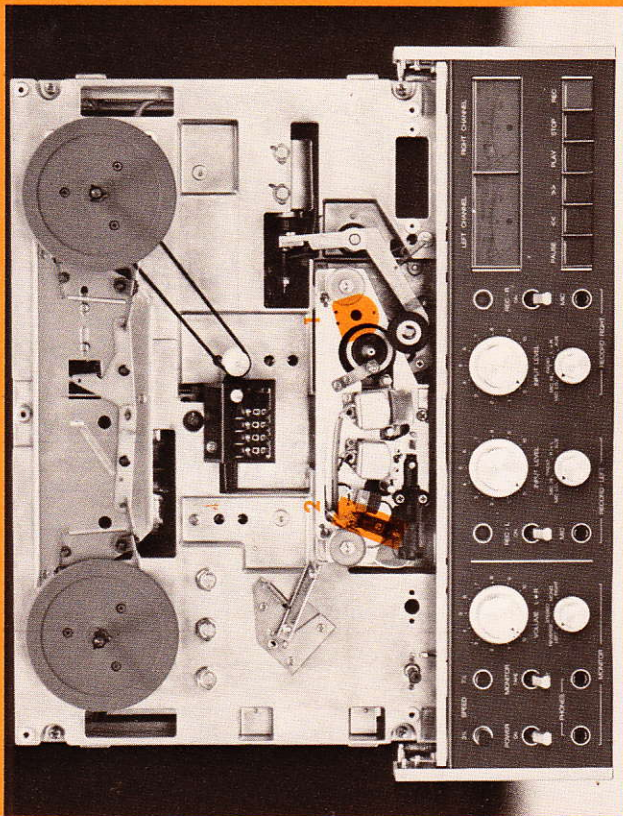
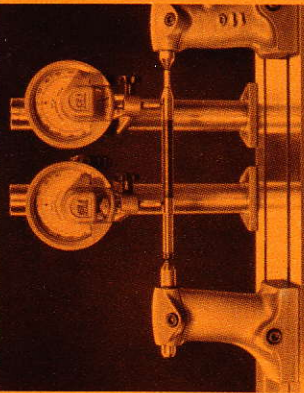
Precision Transport

Professional recordists know that for long-term stability and performance successful tape transport design must begin with the chassis frame itself. No matter how smooth-running the motors and highly-refined the heads, since both are referenced to the recorder's frame, any long- or short-term flexing or imprecise machining in the chassis will inevitably degrade performance. To achieve the required stability - at a weight compatible with home use - the Revox B77 uses a sturdy aluminum die-casting for the chassis, headblock, pinch roller, and mechanism, and each mounting point is painstakingly machined to extraordinary tolerances. The Nextel-coated case around the transport provides a similarly sturdy layer of protection for the mechanism.

Precision Three-Motor Drive

Studer-Revox manufactures its own drive and winding motors so their characteristics can be optimized for recorder use. For example, when heavy reels must be started up from rest they must be fed initially with a higher starting voltage, which is gradually reduced via a triac circuit to normal running voltage. The entire operation must be entirely smooth or the tape could snarl or stretch. Studer motors and controls are one reason why our decks are so widely acknowledged to be the gentlest-handling you can own.

The capstan motor employs a precision-machined set of teeth at the circumference of its rotor. As the motor turns, these teeth create a series of pulses that are read by a tachometer head and whose rate is then compared against the frequency of a stable internal oscillator. In this way, even the very slightest speed variations are immediately detected through a fast-acting servo system. To reduce wow and flutter even further, the direct-drive capstan shaft is machined to an accuracy of one one-thousandth of a millimeter, is hard chrome-plated and is artificially aged during the manufacturing process to ensure long-term stability.



Precision Heads and Electronics

Studer tape heads - from 1 to 24 track models - are world-renowned and are designed and built in our own facilities. The head cores are made from a physically hard, magnetically soft metal alloy called Revodur, which has nearly perfect electromagnetic qualities. Whether you purchase your B77 in a quarter- or half-track stereo format its heads will be built to the same standard of precision and 0.1 micron polish employed in our professional studio decks.

The head nest of the B77 also contains space (1) for the inclusion of a fourth head, to be used for slide-projector synchronization or other audio-video control purposes, in addition to the regular erase, record, and play units. An infrared sensor within the head area (2) activates automatic shut-off in the event of tape run-out or breakage.

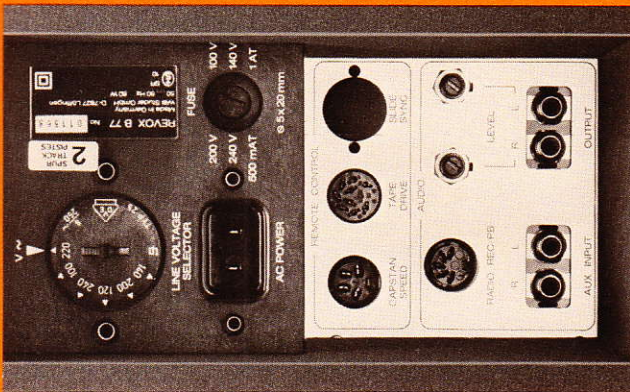
Three-Head Monitoring and Special Effects

Because the record and playback heads of the B77 are individual, separate units, each can be optimized for its specific function. A narrow gap is employed for playback to extend the frequency response, while a wider gap is employed during recording to ensure full penetration of the oxide layer on the tape. Since the record and playback electronics are also separate, this permits you to monitor the recorded result a split-second later, making direct comparison possible to avoid the possibility of an unsatisfactory recording. The sophisticated electronics and separate heads of the B77 also permit various special recording effects. Without external components or cables the Revox B77 can:

- **Duplay**, where both recorded tracks are used simultaneously but for different, interspersed information, as in language laboratories.
- **Simulplay**, where a running commentary musical part, or translation is recorded on one track and a synchronized musical part or other accompanying material is recorded on the other.
- **Sound-on-Sound**, where a single individual, by playing various musical parts and successively mixing his live part with a previously recorded section, can build up an entire performance.
- **Echo/Reverb**, where tape-delayed echo or ambience can be added to a recorded track.

Precision Editing Facilities

An accurate splicing block and non-magnetic sheertype cutter are built right onto the front panel of the B77, encouraging creative tape editing. Additionally, a lever switch is included that activates the playback amplifiers during the fast-winding modes, and shifts their operation to a pulse-type control. In this way you can quickly shuttle back and forth between fast-forward and rewind to find the exact point at which an editing cut is to be made. For even finer-pin pointing of critical cuts the reels can be rotated manually while the tape remains against the playback head.



Connector Panel and Accessories

The recessed connector panel on the rear of the Revox B77 contains a voltage selector switch and both DIN-type and phono jacks for component interconnections. In addition, the panel contains level controls to match the output of the B77 to that of your components, and pre-wired connectors for Revox accessories.



Remote Control Accessory

With this unit you can control all the transport functions of the B77 remotely, and a self-locking feature is added to the pause function. Additionally, for stenographic-type use, a «back-space» key is provided that permits rewinding of the tape while held down, and reverts to forward play when released.

Slide Projector Control

Used with the fourth head position, which may be retrofitted to the B77, this accessory permits record and playback of a pulse-type tone to be used for automatic slide projector operation.



External Speed Adjustment

With this accessory the drive motor speed of the B77 - and thus, the pitch of the recording - may be tuned precisely to match accompaniment by a fixed-pitch instrument or to create special effects. Two ranges are provided: COARSE, which covers a span of ± 7 musical halftones, and FINE (± 1 halftone).

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 (as per NAB):

3.75 ips: 90 μ sec/3180 μ sec
7.5 ips: 50 μ sec/3180 μ sec
15 ips: 50 μ sec/3180 μ sec

Frequency response

(measured via tape,
at -20 VU):
at 3.75 ips:
30 Hz ... 16 kHz ± 2 -3 dB
50 Hz ... 10 kHz ± 1.5 dB
at 7.5 ips:
30 Hz ... 20 kHz ± 2 -3 dB
50 Hz ... 15 kHz ± 1.5 dB
at 15 ips:
30 Hz ... 22 kHz ± 2 -3 dB
50 Hz ... 18 kHz ± 1.5 dB

Peak recording level:

514 nWb/m corresponds to 6 dB above 0 VU
VU meter as per ASA standard
with LED peak level indicators

Distortion:

at 0 VU (257 nWb/m) at 0 VU ± 6 dB
(514 nWb/m) (514 nWb/m)
at 3.75 ips: $< 1\%$
at 7.5 ips: $< 0.6\%$
at 15 ips: $< 1.5\%$
 $< 0.6\%$
 $< 1.5\%$

Signal to noise ratio

(weighted as per ASA-A,
measured via tape):
Half track: at 3.75 ips better than 64 dB
at 7.5 ips better than 67 dB
at 15 ips better than 65 dB
Quarter track: at 3.75 ips better than 60 dB
at 7.5 ips better than 63 dB

Crosstalk

Stereophonic: better than 45 dB
Monophonic: better than 60 dB

Erase depth:

at 7.5 ips 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
40 dB (1:100)

Outputs per channel

level at 6 dB
above 0 VU/514 nWb/m):
OUTPUT: 1.55 V, internal resistance 390 ohms adjustable
with preset control, max. attenuation -26 dB
(R, max. 1.5 kohms)
RADIO: 1.55 V, internal resistance 4.7 kohms adjustable
with preset control, max. attenuation -26 dB
PHONES: (2x) max. 5.6 V, internal resistance 220 ohms,
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)

Semi-conductor complement:

11 IC, 1 opto-coupler, 4 Triac, 60 transistors,
33 diodes, 5 LED, 2 full wave rectifiers, 3 relays

Electric current supply (voltage selector):

100, 120, 140, 200, 220, 240 V
50 ... 60 Hz, max. 80 watts

Main fuse:

100 ... 140 V: 1 A slow-blowing
200 ... 240 V: 0.5 A slow-blowing
approx. 37 lbs. 7 ozs (17 kg)

Weight:

17.8 x 16.3 x 8.14 inches (452 x 414 x 207 mm)
max width: 21.2 inches (538 mm)
max height: 18.25 inches (463.5 mm)

Dimensions (W x H x D):

Required clearance for 10.5 inch reels:

Revox B77 Stereo Tape Recorder

3-motor tape drive, 2 AC driven spooling motors, 1 AC driven capstan motor, electronically regulated

3.75 and 7.5 ips or 7.5 and 15 ips
electronic change-over
 $\pm 0.2\%$

from: 2.5 ... 11 ips (3.75/7.5 ips machines)
5 ... 22 ips (7.5/15 ips machines)

at 3.75 ips less than 0.1%
at 7.5 ips less than 0.08%
at 15 ips less than 0.06%

max. 0.2%
up to 10.5 inch diameter
(min. hub diameter 2.36 inches)
tape tension switchable
(for small hub diameters)

approx. 135 sec for 3600 ft of tape

Technical Data:

Tape transport mechanism:

Tolerance from nominal:
With external accessory, speed variable:

consistent with IEEE standard 193-1971):

Reel size:

Winding time:

Revox B77.

All figures quoted are minimum performance values normally exceeded by all units. Subject to change.

STUDDER REVOX

Revox
BX. BR.



*With great musical technique you
don't hear the technique.
But without the technique you
wouldn't hear the music*

*Revox loudspeakers use sophisticated designs
so you simply hear music*

While loudspeakers are often rightly called the weakest link in the high-fidelity component chain, enough is now known both in theory and in hard-won experience to enable Revox to produce speakers fully worthy of its distinguished name. As within the art of the violin maker, the cold principles of physics are transmuted into the warm experience of music, so in the Revox loudspeaker facilities the elegant mathematical analyses of engineering subserve the clarity and richness of the melodic line.

Revox produces two different types of loudspeakers, both of the highest quality, and each carefully forged to match the Revox high-fidelity chain.

The BR Series

The bass-reflex principle embodied in the newly-developed STUDER-REVOX BR series loudspeakers evokes a feeling of warmth and low-frequency power, even with relatively small electrical input levels.

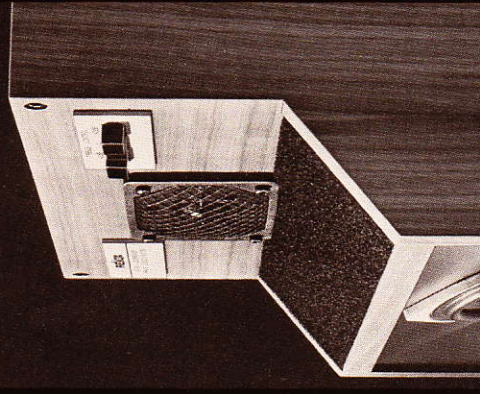
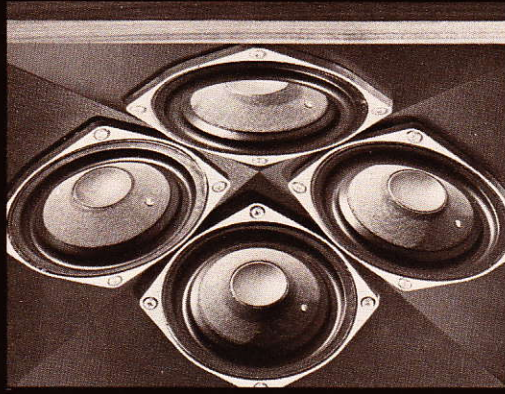
The high-efficiency operation of the Revox BR series speakers is complemented by light metal castings for the speaker chassis enclosures, which ensure high rigidity. Voice-coil heat dissipation has been improved to permit sustained high-volume sound levels. Further, the non-ferrous frame promotes high efficiency because it does not adversely interact with the magnetic structure.

In these and many similar details you will find the result of Revox's continual, comprehensive research program into making the BR speaker series the most richly satisfying music reproducers of their type.

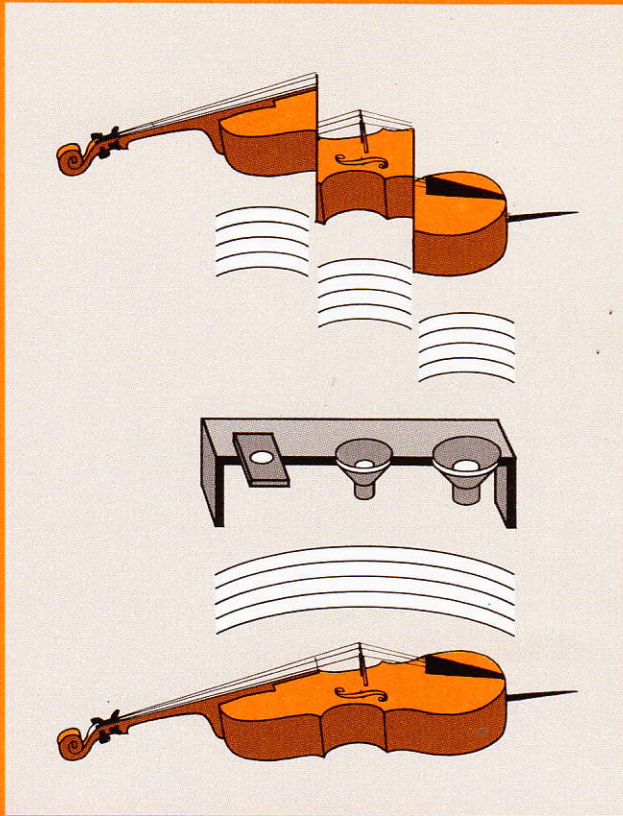
The BX Series

Audiophiles with the most keenly trained sensitivities will find an astonishing difference between the Revox BX loudspeakers and even the best-executed conventional designs. The BX series combines the acoustic suspension principle with that of the linear-phased array, bringing you the most clearly-defined, most realistic musical reproduction you are likely ever to have experienced outside a concert hall. As you know, the speaker system enclosure adds further complications. A complex sound that originates at a fixed point in space, such as that heard in a concert hall, arrives at the listener's ear in totality. But with the conventional HiFi speaker system, the sound arrives fragmented in time and lacking coherence.

The Revox BX series loudspeakers have been specifically designed with this problem in mind, to produce phase-coherent, live sound quality. The electrical phase (time) characteristics of the dividing networks are known, as are those of the enclosure, the response times of the speaker cones and their dimensions, and the structure as an entirety is constructed to compensate for every factor so that the total sound wave that reaches the listener's ear appears to be identical to the sound wave that would have been perceived when originated by the instrument in the hall.



The phase aligned loudspeaker systems Revox BX



Linear Phase: Enhanced Transparency, Less Fatigue

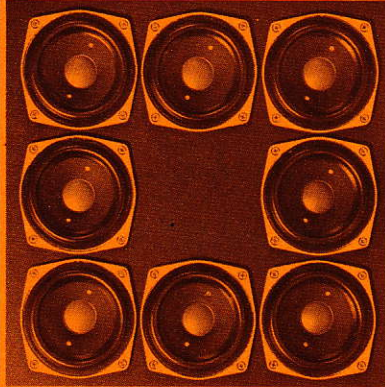
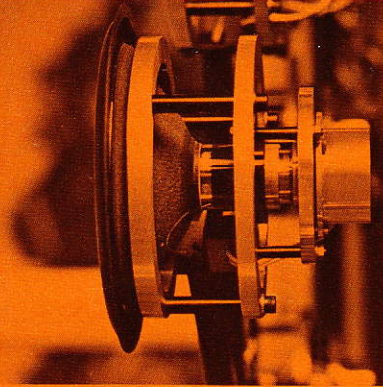
Musically-satisfying tones are almost never pure sine waves. Instead, an instrument generates not only a "fundamental" (sine wave) tone, but a whole series of "overtone" or "harmonics" that give the sound its timbre and body. While this presents a very complex, jagged-looking waveform to an oscilloscope, it brings us the richness of tone that is more than sound.

In an instrument, both the fundamental and the overtones originate from the same place: the vibrating string of a violin or the reed of an oboe. In loudspeakers, however, low-frequency woofers and high-frequency tweeters must divide the musical spectrum in order to reproduce it properly. Further, the different speaker units have different physical dimensions, so that if all of them are mounted against the same flat front panel of a speaker system cabinet, sounds from the smaller speaker (the harmonics) will reach the ear before the fundamental tones (from the larger speaker units). Electrical "phase" (time) delays in the frequency-dividing ("cross-over") network and geometrical properties of the spectrum of a large orchestra each solo instrument can be heard to emerge from the exact point it actually occupied.

Even a casual glance at a Revox BX speaker shows that it embodies a somewhat different, innovative design concept. In place of the usual large-diameter woofer is an entire array of smaller, more quickly-responding units, but which actually add up to a larger bass-radiating surface with omnidirectional characteristics. But the principal feature of the BX series is its "linear phase" or "time-delay" compensation which brings all of the mechanical radiating surfaces of the various speaker units into precise alignment, providing a listening experience of breadth and depth heretofore unobtainable.

Listening is the final test

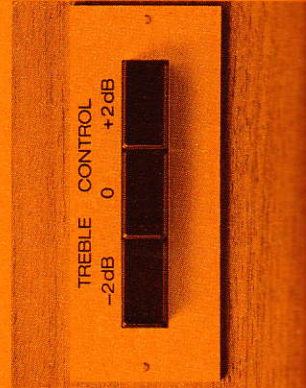
Loudspeaker salesmen have a long-established rule: "Louder sounds better." On a short-term audition in an unfamiliar showroom environment this is a tried-and-true formula for sales - but not for listening satisfaction. A showy, protuberant, "dynamic" loudness (which will produce an artificially "powerful" bass response) is the favorite trick an unscrupulously smooth salesman uses to gull the unwary hi-fi shopper into buying a cheap but profitable loudspeaker which later he cannot stand to listen to for more than ten minutes. Before you buy any speaker, therefore - ours included - insist on an "A-B" comparison that is genuinely fair, that is, conducted at the same perceived volume level. Heard under those conditions, we have little doubt you will choose Revox.



Multiple-array Woofers

While the acoustic-suspension principle has made it possible to produce extremely low frequencies from loudspeakers and enclosures of reasonably small size, it has not superceded the physical principles that dictate that high-volume bass reproduction requires moving large cubic volumes of air. Traditionally, this has meant large-diameter woofers, with large-surface cones, to push enough air for proper bass reproduction.

The Revox BX-series speakers, however, take a different approach to solving the same problem. Large-surface cones in a loudspeaker tend to generate spurious oscillations of their own, adding harmonic distortion. Further, their sheer mass makes them generally unresponsive to fast-changing signals. The BX-series, therefore, uses a number of smaller-diameter drivers - which add up to an even larger bass-radiating surface than a single large woofer - and which have the further advantage of being individually more responsive. All are mounted in an angled array to provide phase coherence. That means less distortion and truer-sounding low-frequency music reproduction.

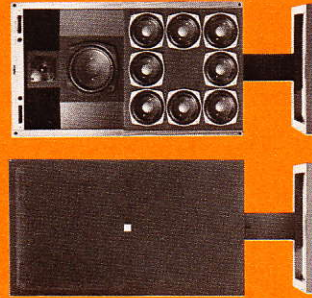


Revox BX. BR.

Revox HiFi speaker profile

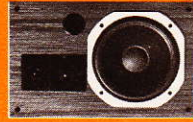
BX

- **Phase corrected acoustic radiation**
Speaker systems staggered in depth, improved directional detail for each individual instrument, highly transparent
- Optimal dispersion pattern
- Removable front grille, functional design
- Separate switches enable adaption to room acoustics
- Specially treated cones to achieve a high degree of internal damping
- Speaker chassis made of cast aluminium to eliminate stray field losses
- Thermically stable, high output systems
- Highly precise and stable dividing networks
- Careful manufacture with attention to detail, various enclosure designs available;
- 5 year warranty



BR

- **Bass reflex unit with critical damping**
High efficiency. Designed on the "infinite baffle" principle
- Damped phase modulator tube
- Special arrangement of mid-range units and tweeters prevents interference beats
- Acoustically transparent grille cloth. Damping effect only 1 dB at 20 kHz
- Optimum pulse response (sine squared pulse)
- No ringing due to impedance at phase modulator tube
- Careful manufacture with attention to detail, various enclosure designs available;
- 5 year warranty



Technical Data:

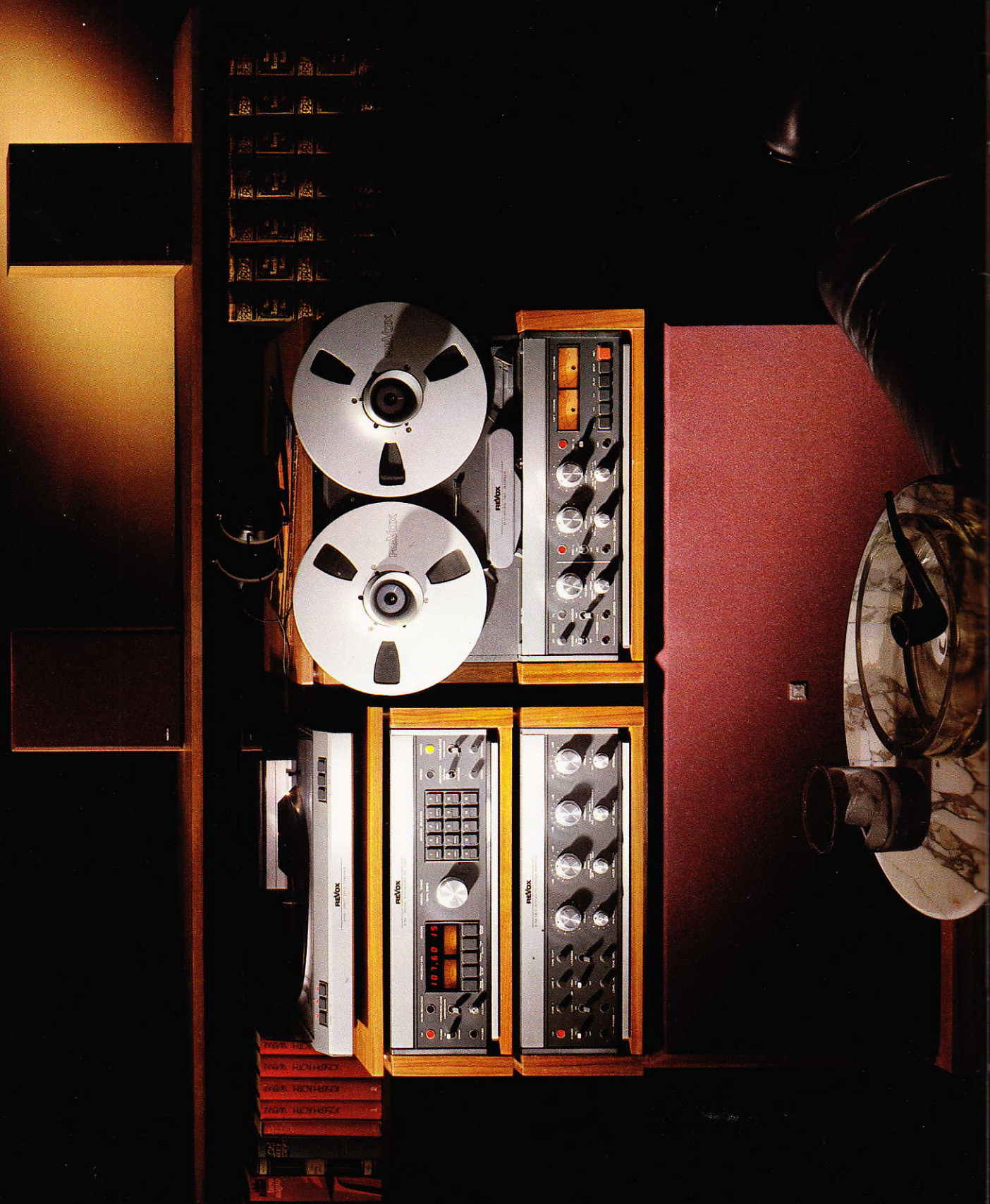
	BX350	BR430	BR320
Frequency response ±3 dB:	45 Hz ... 25 kHz	52 Hz ... 25 kHz	58 Hz ... 20 kHz
Power capacity:	200 watts	80 watts	50 watts
Suggested amplifier power (continuous sine wave):	20 ... 200 watts	20 ... 80 watts	20 ... 50 watts
Sensitivity 1W, 3.3 ft:	85 dB	86 dB	86 dB
Nominal impedance:	4 ohms	4 ohms	4 ohms
Distortion , HD ₃ max.*:	1% (40 Hz ... 25 kHz)	1% (40 Hz ... 25 kHz)	1% (55 Hz ... 22 kHz)
Speaker complement:			
Woofer	∅ 8 x 4.80 inches (8 x 122 mm)	∅ 1 x 12.40 inches (1 x 315 mm)	∅ 1 x 7.87 inches (1 x 200 mm)
Woofer/mid-range driver	–	–	–
Mid-range driver	∅ 1 x 6.89 inches (1 x 175 mm)	∅ 1 x 1.97 inches (1 x 50 mm)**	∅ 1 x 1.59 inches (1 x 38 mm)**
Dome tweeter	∅ 1 x 0.75 inches (1 x 19 mm)	∅ 1 x 0.75 inches (1 x 19 mm)	∅ 1 x 0.98 inches (1 x 25 mm)
Magnetic flux density in Tesla (Gauss):			
Woofer	8 x 1.0 (10,000)	1 x 1.0 (10,000)	–
Woofer/mid-range driver	–	–	1 x 1.0 (10,000)
Mid-range driver	1 x 1.1 (11,000)	1 x 1.35 (13,500)	–
Tweeter	1 x 1.6 (16,000)	1 x 1.6 (16,000)	1 x 1.6 (16,000)
Magnetic flux in µWb:			
Woofer	8 x 490	1 x 1160	–
Woofer/mid-range driver	–	–	1 x 590
Mid-range driver	1 x 660	1 x 800	–
Tweeter	1 x 296	1 x 296	1 x 390
Crossover frequency:	600/4000 Hz	850/4200 Hz	2800 Hz
Connector:	Clip terminals	wire clamps	Europ. recept.
Cable:	16 ft included	16 ft included	16 ft included
Front panel:	removable	removable	removable
Weight:	88 lbs, 3 ozs (40 kg)	41 lbs, 14 ozs (19 kg)	19 lbs, 13 ozs (9 kg)
Front panel dimensions:	17.71 x 31.10/41 inches (450 x 790 mm/1040 mm)	15.15 x 24 inches (385 x 610 mm)	13.38 x 22 inches (340 x 560 mm)
Housing depth , including front panel:	17.04 inches (433 mm)	13.58 inches (345 mm)	10.5 x 18.70 inches (265 x 475 mm)
		12.40 inches (315 mm)	10.82 inches (275 mm)

* measured with a mean sound pressure level of 91 dB at a distance of 6.56 ft.

** dome-type

STUDER **REVOX**

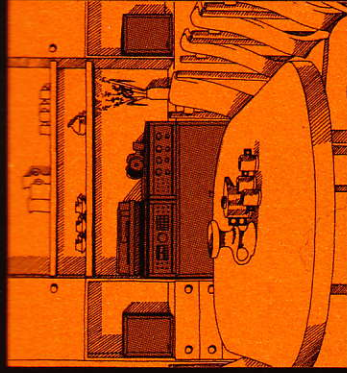
Revox
TRITON



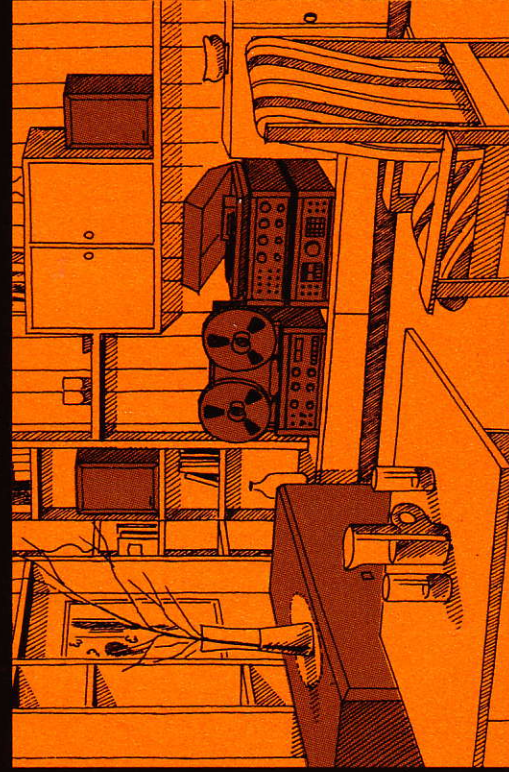
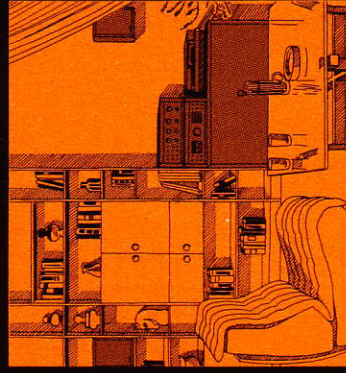
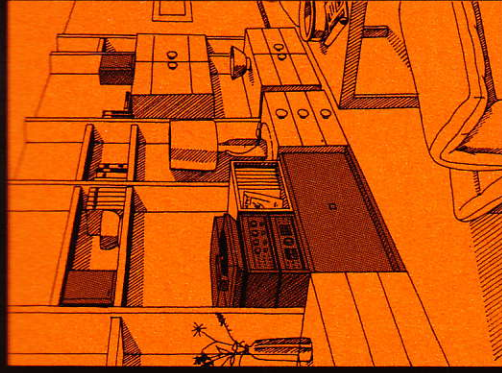
Small Speakers – Luxurious Sound? The solution: The Revox TRITON Loudspeaker System

The dream to recreate the full and rich sound of orchestral music with small bookshelf speakers has now come true. No one can break the laws of physics, but what can be done, is to take advantage of the peculiarities of auditory perception. At the very low bass frequencies of 200 Hz and lower, a listener is no longer able to sense their point of origin, yet it is the very sound of these bass octaves, which creates the full bodied, life-like impression of orchestral music. These low frequencies – because they are of no significance as far as the stereophonic effect is concerned – may be radiated from anywhere in the room. The Revox TRITON is a 4-way speaker system. The lowest frequencies are radiated by 2 subwoofers. They are housed in a common cabinet, which may serve as an equipment console at the same time. The midrange and treble frequencies are reproduced by two 3-way bookshelf speakers, whose performance is carefully matched to the subwoofers. The placement of these bookshelf speakers will not create any problems as they blend harmoniously into practically any decor. With this TRITON HiFi loudspeaker system, Revox is taking full advantage of the possibilities provided by the satellite system, which permits the harmonious integration of a complete music system into any interior with a variety of arrangements possible.

Both subwoofers are spring supported in their cabinet. The resonance of this support is as low as 3 Hz. Powerful low frequency sounds can thus not transmit their vibrations through the cabinet and to other equipment. Revox TRITON, the HiFi speaker system, that reproduces the full musical range from the delicate details of treble sounds down to the awe inspiring lows of the pipe organ with an exceptional stereophonic quality, yet without creating any placement problems.



These are a few examples which demonstrate the harmonious integration of the Revox TRITON System into different furniture arrangements.

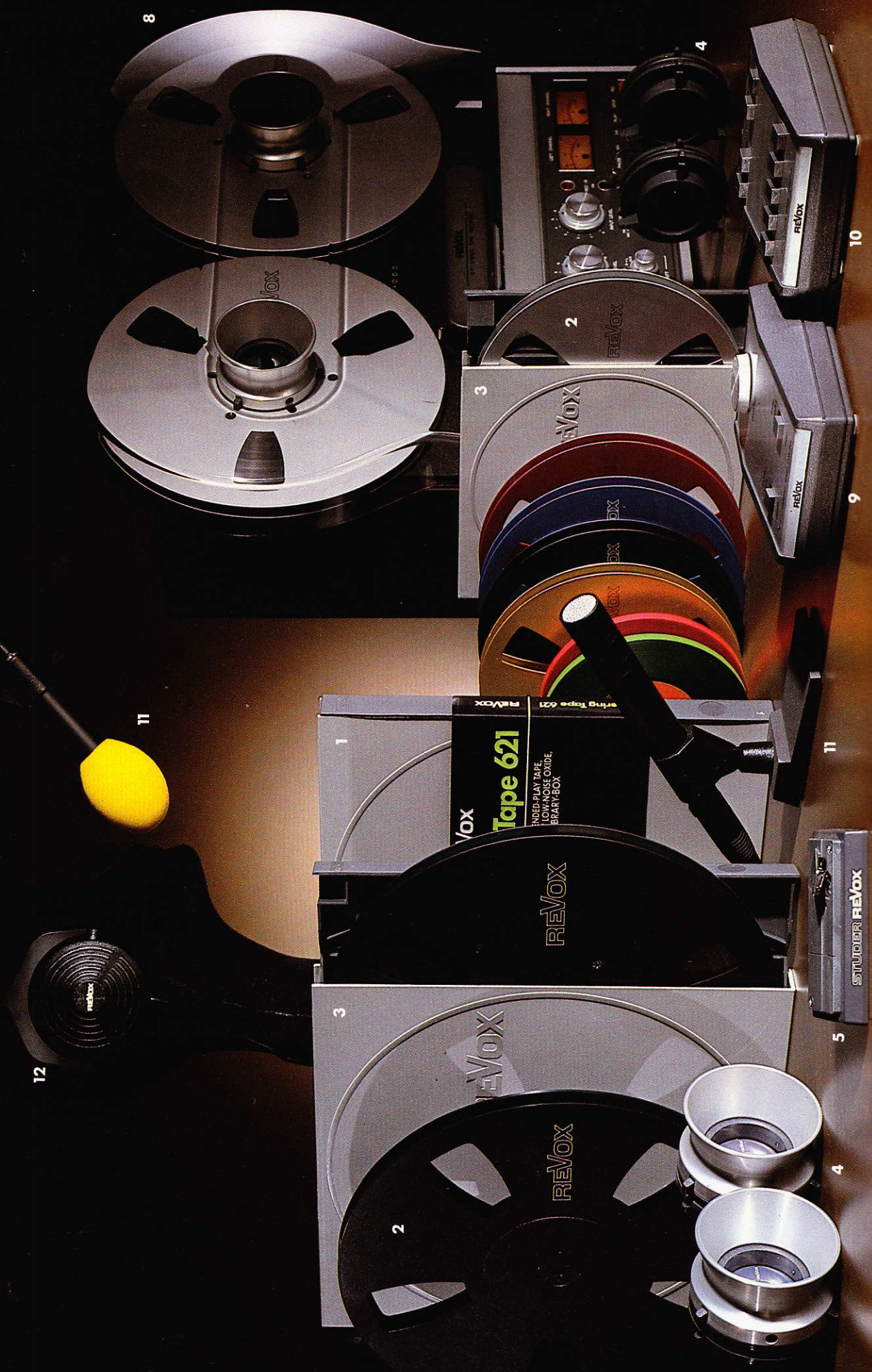


Technical Specifications

Frequency range (DIN 45500):	30 Hz ... 25 kHz
Nominal power capacity (DIN 45500), per channel:	110 watts
Music power capacity per channel:	130 watts
Nominal impedance:	4 ohms
Recommended amplifier power (sinewave) per channel:	20 ... 110 watts
Distortion , HD3 at an SPL of 91 dB 2 meters from the speaker:	1% (40 Hz ... 25 kHz)
Speaker complement: subwoofer:	2 x 9,65 inches ϕ (2 x 245 mm)
bookshelf speakers: low/midrange driver:	1 x 6,89 inches ϕ (1 x 175 mm)
dome type midrange unit:	1 x 1,18 inches ϕ (1 x 30 mm)
dome type tweeter:	1 x 0,75 inches ϕ (1 x 19 mm)
Magnetic flux density: in Tesla (Gauss) subwoofer:	2 x 1,0 (10,000)
bookshelf speakers: low/midrange driver:	1 x 1,0 (10,000)
midrange unit:	1 x 1,2 (12,000)
tweeter:	1 x 1,6 (16,000)
Magnetic flux: subwoofer in μ Wb:	2 x 960
bookshelf speakers: low/midrange in μ Wb:	1 x 490
midrange in μ Wb:	1 x 348
tweeter in μ Wb:	1 x 296
Crossover frequencies:	150/1300/3200 Hz
Connectors: input:	wire clamps
subwoofer outputs:	DIN-sockets
Cables: subwoofer:	3 ft (1 m) included
per bookshelf unit:	15 ft (5 m) included
Front panel:	removable
Weight (mass): equipment board with subwoofers:	216 lbs (98 kg)
each bookshelf unit:	11 lbs 11 ozs (5,3 kg)
Front panel dimensions: equipment board:	41,535 x 3,007 inches (1055 x 940 mm)
bookshelf units:	18,858 x 12,401 inches (225 x 315 mm)
Depth (including front panel): equipment board:	18,110 inches (460 mm)
bookshelf units:	7,480 inches (190 mm)

All figures quoted are minimum performance values, normally exceeded by all units. Subject to change.

STUDDER REVOX



Revox Accessories are carefully matched to complement all Revox HiFi products

The Revox 877 tape recorder is optimized to the outstanding recording characteristics of the low noise Revox 621 professional mastering tape

The very uniform coating of the Revox 621 tape assures minimum level fluctuations, extremely low modulation noise and improved high frequency saturation characteristics. The matte black coating ensures smooth running and flat wind characteristics. The backcoating is electrically conductive to prevent attraction of dust or other contaminants.

1 Revox tape on metal or Novodur reels

Tape length: 3600 feet (1100 meters).
Playing time per stereo track is 3 hours 12 minutes at 3.75 ips (9.5 cm/s), 1 hour 36 minutes at 7.5 ips (19 cm/s).
3600 feet on 10.5" (26.5 cm) Novodur reel with library box. Art. No. 42074
3600 feet on 10.5" (26.5 cm) metal reel, black with library box. Art. No. 42093
3600 feet on 10.5" (26.5 cm) metal reel, silver with library box. Art. No. 42095

2 Empty reels

10.5" (26.5 cm) Novodur, black, cine center. Art. No. 44150
7" (18 cm) anodized aluminum, cine center. Art. No. 44031
10.5" (26.5 cm) anodized aluminum, NAB hub 7" (18 cm) Art. No. 44032
Color Art. No. 44030 Art. No. 44040
blue Art. No. 44031 Art. No. 44041
gold Art. No. 44032 Art. No. 44042
black Art. No. 44033 Art. No. 44043
red Art. No. 44034 Art. No. 44044
silver

3 Library Boxes

Made of shock resistant plastic with catch for easy tape removal. Several boxes may be bolted together into a permanent unit.
7" (18 cm) Art. No. 44401
10.5" (26.5 cm) Art. No. 44405

Convenient Revox tools for quick, easy and clean editing

4 NAB Adaptors

Two adaptor types are available for use with 10.5" (26.5 cm) metal reels. Art. No. 45001
NAB standard
NAB professional with anodized aluminium hand piece. Especially useful for editing. Art. No. 45010

Professional Metal Flange with DIN Adaptor.

For professional use with self-supporting open stacks of studio tapes on locking DIN reel hubs 10.5" (26.5 cm) diameter. Art. No. 34500

5 Editing Set

Edit professionally with the Revox tape cutter mounted on splicing block. Includes marking pencil, cutting blade and splicing tape. Art. No. 45240



Transparent Leader Tape

1200 feet (350 meters) on plastic spool for automatic tape stop or other triggering functions. Art. No. 45200

Make sure that all cable connections and properly connected. Genuine Revox cables ensure minimum transfer losses!

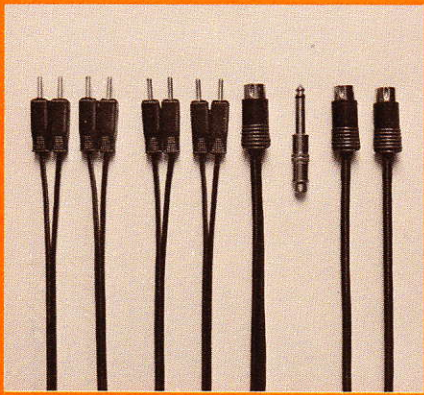
6 Interconnecting Cables

C2C 210, 3 feet (1 meter) with double phone plugs at both ends for 2-channel connection. Art. No. 33041
C2C 220, 6 feet (2 meters) with double phone plugs at both ends for 2-channel connection. Art. No. 33042

NWAC 420, 6 feet (2 meters), 2 double phone plugs to DIN connector for stereo record/playback. Art. No. 33082

NWAN 420, 6 feet (2 meters), 5-pin DIN connector at both ends for stereo/playback. Art. No. 33092

Phono plug, 1/4" phone plug adaptor. Art. No. 33405



Adaptors for 19" Rack Mounting

Installation kit to mount Revox equipment in professional 19" racks. Art. No. 34099
For B77 (metal cage version) Art. No. 34095
For B750, 760 and B780

Protect and maintain the tape heads with the greatest care and Revox accessories!

7 Tape Head Cleaning Kit

For thorough and gentle cleaning of tape heads. Art. No. 39000



A successful flight against dust improves the long-term fidelity of reproduction

8 Plexi Dust Cover for B77
Protects equipment and tape against contamination. May be used during operation. Art. No. 34007

The versatile remote control facilities of the Revox B77 Tape Recorder

9 External Capstan Motor Speed Control for B77

A variable speed control which makes possible special effects such as pitch matching. 6 feet (2 meters) of cable. Two control ranges: ± 7 halftones and ± 1 halftone. Art. No. 34237

10 Remote Control for B77

Control all mechanical transport functions. Also includes repeat key (rewind, stop, playback), latching pause key, 2 keys for producing synchronized slide shows when used with slide sync kit, and selector switch for timer operation. 33 feet (10 meters) of cable. Art. No. 34227

For high quality recording and reproduction:

Revox microphones and headphones

11 Revox Microphone M3500

High quality dynamic microphone. All metal with matte black finish. Perfect for all Revox tape recorders.

Characteristics: super cardioid

Frequency response: 40 Hz-18,000 Hz

Impedance: 600 ohms

Connecting cable with XLR type plug for microphone connection. Includes table stand, wind-screen and carrying case. Art. No. 30450

Extension Cable for M3500 microphone with XLR type connectors on both ends. 16 feet (5 meters) of cable. Art. No. 30652

12 Revox Stereo Headphones RH310

Open air type headphones with excellent transient response and stereo imaging. Lightweight and comfortable. Matches amplifier impedance of 4-600 ohms.

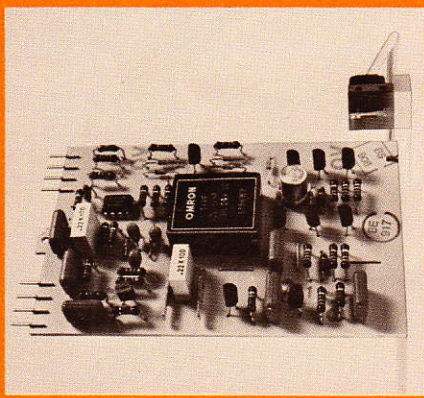
Frequency response: 20 Hz-20,000 Hz

Art. No. 32010

13 Slide Sync Kit for B77

Consists of printed circuit board and pilot head. When used with remote control accessories, stereophonic sound is possible with slide synchronization. Must be retrofitted by Revox service center.

2-track Art. No. 74502
4-track Art. No. 74504



14 Antenna Rotator Control

Consists of printed circuit board and programming unit. Combined with the 2031 Stolle "programmable" antenna rotator system, antenna direction can be automatically controlled by the station selector buttons on the B760/B780. Art. No. 34260



Your authorized specialist Revox dealer will gladly give you expert advice in choosing the right accessories.

STUDDER REVOX

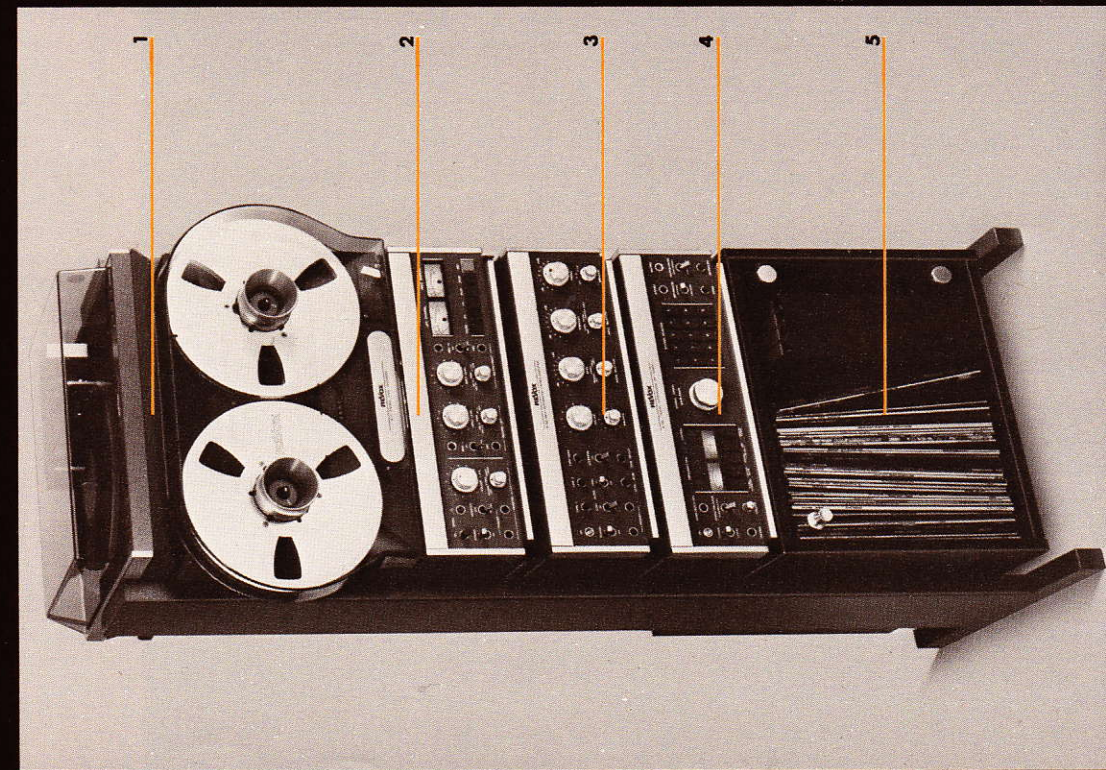


The Revox Audio Rack

*It makes for space, order and neatness.
It increases the ease of operation.
It puts the harmoniously matched
Revox music system components
into the right perspective*

In material and design the Revox Audio Rack harmonizes with the Revox equipment. As the exclusive and elegant "spinal column" of the whole installation it gives high stability and complements the harmonious line of the whole Revox hi-fi series to the full whilst taking up the minimum of floor space.

Access for operation of the neatly arranged Revox equipment is ideal. Each individual unit can also be easily removed. The cabling to the equipment is out of sight; if a multi-outlet adaptor is used, only one cable will lead to the mains socket. The Audio Rack is a robust steel construction; it has a record and tape cupboard in dark oak with a smoke tinted glass door. Easily transportable compact packing, problem-free assembly.



- 1 Revox B790 Turntable
- 2 Revox B77 Stereo Tape Recorder
- 3 Revox B750 Stereo Compact Amplifier
- 4 Revox B760 Stereo Digital FM-Tuner
- 5 Record and tape cupboard

Technical details:

Height: 51.57 inches (131 cm)

Width: 20 inches (51 cm), 17.80 inches (45.2 cm) inside

Depth: 15.75 inches (40 cm)

Material: Steel frame

Dark oak cupboard

with glass partitions for records and tapes

Smoke tinted glass door

Color: Dark grey

Mains and connecting cables: May be laid out of sight in the side supports

Rack suitable for Revox equipment of the B series

Revox Audio Rack

The Philosophy of Excellence

Every Revox component is designed and built strictly in accordance with the highest standards of engineering practice. We will not compromise technology for price where that technology will serve to advance the art of realistic music reproduction, but we will not introduce faddish novelties of design that serve no demonstrable musical purpose.

Our equipment occupies the demanding boundary area between top quality home components and those intended for specifically professional applications. For sales and service we rely on a network of specialist dealers in whose knowledge, facilities, and helpful attitude both we at Studer Revox and you, the consumer, can safely trust.

Willi Studer, Dr. H.C.

Worldwide distribution:

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The Revox national agencies will be pleased to let you have the addresses of authorized dealers in your country.



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