Designation

For easier type identification of the REVOX B77 tape recorder, the following coding scheme has been implemented:

Speed category — Equalization
Track configuration —
B77 S2/CS/HS/NAB/AUTO
Housing version — Version code

S2 = 2- track
S4 = 4- track

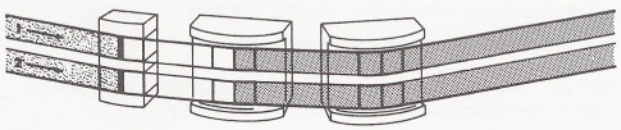
CS = Plastic housing, Nextel coated
CM = Metal housing for cabinet mounting (19"- rack mounting is available)

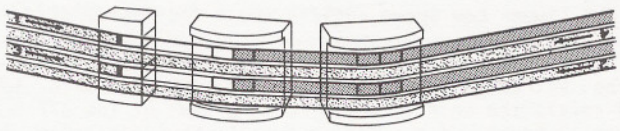
An exact definition of the machine type is, therefore, possible by combining the individual code elements.

Track configurations

2- Track (S2):
2- track models are always selected when tape splicing (editing) is required. Because of the large track width of 2mm, these models feature excellent ratings with respect to frequency response and treble dynamic range.
The 2- track version can be equipped with slide control electronics and an additional sound head. The high- speed version of the 2- track machine is ideally suited for applications requiring maximum audio quality (e.g. as effects machine in audio or film production).

4- Track (S4):
The advantage of 4- track machines over 2- track machines is the double tape capacity. The 4- track B77 is suited for applications where long playing times (up to six hours on the standard- speed B77) combined with excellent audio quality is essential. The 4- track machines can also be equipped with slide control electronics and an additional soundhead. Because of the narrower track width, the audio specifications are in certain areas slightly inferior to those of 2- track machines.





Standard version of B77 [Standard Speed, 3 3/4 and 7 1/2 ips (9.52 and 19.05 cm/s)]

The REVOX B77 has been designed to satisfy the requirements of a vast number of applications. All machines are constructed from the standard speed version without major changes to the electronics or mechanical components. The flexibility of the B77 and its mature technology are two of the main reasons why the REVOX B77 is frequently used by recording studios side by side with the STUDER multichannel studio tape machines.

The B77 features an extremly stable 3- motor tape transport which can be adapted easily to individual applications because of its ingenious and top- quality construction. The neat arrangement of the control and audio electronics ensures excellent access to test points and trimmer potentiometers for maintenance work or field modifications to the machine that are required for other applications.
All tape transport functions can be controlled remotely. A cable- type and an IR remote control are available as accessories. Of course, the tape speed can be varied by an implemented control by ±10% or via an external control aross a wide range of ±7 semitones.

Some of the simpler operations can also be performed by unskilled personnel because the controls are arranged for maximum operating convenience and reliability. The logically interlocked tape command keys as well as the record preselection facility (protects against unintentional erasure) also contribute to high operating reliability. With its sophisticated transport and audio electronics, the B77 is a flexible and efficient tape recorder with great application potential in recording, broadcasting, and film studios, as well as in the industry.

The B77 standard speed version [3 3/4 and 7 1/2 ips (9.52 and 19.05 cm/s)] is available as a 2- track or 4- track machine with NAB equalization. Depending on the application, either a rugged plastic housing with Nextel- coating or a metal housing (for cabinet mounting) can be ordered.

B77 HS [High Speed, 7½ and 15 ips (19.05 and 38.1 cm/s)]

The B77 HS is ideal for applications that require maximum frequency response, dynamic range, and treble response. Because of the high tape speed [7½ and 15 ips (19.05 and 38.1 cm/s)], excellent frequency and treble response is achieved. Editing (splicing) is also easier and more accurate with high tape speeds.
The B77 HS features the same sophisticated tape transport control as the standard speed model. The tape speed is doubled by increasing the capstan diameter. The B77 HS can, of course, be operated with the same accessories as the standard speed model.

Versions of the B77 HS:
The high speed version [7½ and 15ips (19.05 / 38.1 cm/s)] is particularly suited for semiprofessional use or as a cost- effective alternative for expensive studio machines in smaller recording studios or local broadcasting stations. For this reason, the B77 HS is only available as a 2 track machine with either NAB IEC equalization. The type of equalization to be selected depends on the equalization standard of the existing equipment or the library of recorded tapes.
The B77 HS can also be fitted with an additional soundhead for control purposes (see slide versions).

B77 LS [Low Speed, 1 7/8 and 3 3/4 ips (4.76 and 9.52 cm/s)]

The B77 LS is designed for audio applications where uninterrupted playing times of over 6 hours with excellent reproduce specifications are required. The B77 LS operates at two speeds: 1 7/8 and 3 3/4 ips (4.76 and 9.52 cm/s). The main distinctions to the B77 standard model are the smaller capstan diameter and a corresponding lower capstan motor speed. The B77 LS is available as a 2- track or 4- track machine. Because of its high recording and reproduction quality, the B77 LS is ideal suited for audio applications in museums, exhibitions, galleries, restaurants, or for speech recording during conferences.

Versions of the B77 LS:
The B77 low speed version runs at 1 7/8 and 3 3/4 ips (4.76 and 9.52 cm/s). Depending on the application, either a 2- track or 4- track machine can be selected. If only speech is to be recorded, the 4- track version is recommended because the recording time is twice as long. For recording and reproducing music, the 4- track version is less suited. Equalization according to NAB standards. The B77 LS is available in a Nextel- coated plastic housing or in a metal housing (for cabinet mounting).

B77 SLS [Super Low Speed, 15/16 and 1 7/8 ips (2.38 and 4.76 cm/s)]

At the extremly low recording speed of only 15/16 ips (2.38 cm/s), the uninterrupted running time of the B77 SLS is over 12 hours, i.e. continuous 24- hour operation is possible with only two B77s. Excellent voice intelligibility is achieved because of the high recording quality. The B77 SLS is a high- quality tape machine for voice logging. The second channel can, for example, be used for continuous time recording. The B77 SLS is ideal for continuous logging of conversations in wire- bound and wireless communication systems.

A special version with the designation B77 AUTO is available for automatic monitoring purposes.

Versions of the B77 SLS:
The superslow B77 SLS runs at 15/16 and 1 7/8 ips (2.38 and 4.76 cm/s). These recorders are available as 2- track or 4- track machines with Nextel- coated plastic housing or metal housing for cabinet mounting).

B77 AUTO (Auto Start)

The B77 AUTO versions are particularly suited for automatic monitoring applications in which sporadic events must be recorded. The standard speed versions are ideal for monitoring functions that require high audio quality. The low speed and particularly the super low speed versions are primarily suited for continuous voice traffic in wire- bound or wireless communication systems. The second track can, for example, be used for synchronous recording of time information.

Autostart recorders are equipped with additional electronic circuits for starting the recorder automatically when a modulation signal becomes available on one or both input channels. The autostart threshold can be adjusted externally. The delay for switching the recorder to stop after the arrival of the last audio event can be adjusted internally.

Versions of the B77 AUTO:
The B77 AUTO is available in standard, low speed, and super low speed versions, either as 2- track or 4- track machines. Standard and low speed recorders use NAB equalization. The B77 AUTO can be ordered with Nextel or metal housing.

Alternate Control (external option) Part. no. 34230

For special applications, such as uninterrupted monitoring, two B77 recorders can be coupled with the aid of the optional "Alternate Control". Thus, two B77 recorders can share one of three preselected functions: PLAY (the second recorder starts in play mode as soon as the first recorder has terminated its program), RECORD (same as PLAY except that the second recorder starts in record mode), and OFF (both recorders can be operated independently).

Cycle Control (external option) Part no. 34231

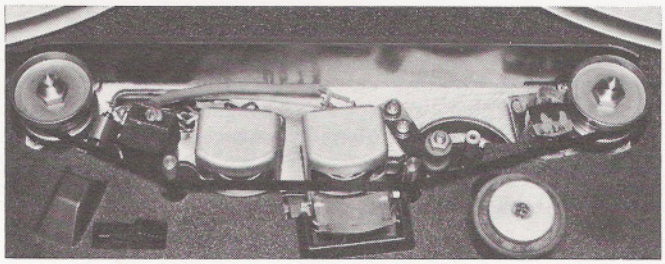
A B77 equipped with cycle control does not switch to stop when the end of the tape is reached but rewinds automatically and searches the beginning of the tape. The preselected command (record, play, or stop) will be executed.

Endless operation (e.g. continuous operation in exhibitions, slide shows, etc.) is, therefore, possible. Several B77s equipped with cycle control can be connected like a chain (sequentially, repeating).

B77 with additional pilot tone head

The B77 equipped with additional pilot tone head for control purposes is available in three versions:

B77 DIA, for controlling a slide projector with the aid of 1kHz control pulses. A cable type remote control is required for this version.
B77 DHA, for controlling multiple projectors and a dissolve unit.
B77 FH, for operation with an external electronic control.



B77 DIA (Slide Sync)

The B77 DIA versions are designed for stereo dubbing or presentation of slide shows with superb sound quality and reliability in conjunction with a slide projector. The pulses of the control track can, of course, also be used for triggering other suitable devices and equipment. This recorder features a pilot tone head as well as a slide sync PCB with control electronics. The connection of different projector types is not critical because the SLIDE SYNC socket is controlled through electrically isolated relay contacts.

Slide sync recorders are available in the standard speed version [3 3/4 and 7 1/2 ips (9.52 and 19.05 cm/s)] as 2- track or 4- track machine with NAB equalization; the HS version as a 2- track machine with either NAB or IEC equalization.

B77 DHA (Dissolve Head Amplifier)

The analog pilot head electronics of the DHA version are not only able to control dissolve units (e.g. SIMDA ED 3000P) for multiple projections, they also open virtually unlimited possibilities because its control signals cover a frequency range of several octaves.

DHA recorders are available in the standard speed version [3 3/4 and 7 1/2 ips (9.52 and 19.05 cm/s)] as a 2- track or 4- track machine with NAB equalization; the HS version as a 2- track machine with either NAB or IEC equalization.
DHA recorders can, for example, be used in conjunction with the following systems:
AVL FX-2
AVL Chipmunk
Electrosonic ECLIPSE ES 460
Rollei MD 216
SIMDA ED 3000P

B77 FH (Free Head)

The "soundhead only" FH versions are designed for operating with external control and switching electronics (e.g. SIMDA F100/101). The control possibilities are only limited by the characteristics of the pilot head, the tape material, and the cross talk to the audio tracks.
FH recorders are only equipped with the additional pilot tone head and a screened connecting cable to the REMOTE CONTROL SLIDE SYNC connector.

FH recorders are available in the standard speed version [3 3/4 and 7 1/2 ips (9.52 and 19.05 cm/s)] as 2- track or 4- track machine with NAB equalization; the HS version as a 2- track machine with either NAB or IEC equalization.
FH recorders can be used with following systems (possibly with minor adaptations according to the manufacturer specifications):
AVE (Fading 2), Bassgen (UD 2000), Imatronic (2500), Kindermann (F101), KODAK (Model B/digital), Leitz (D.U.-24 A), Liesegang (Processor Syn.1), Muewoblend (EC), Rollei (MD 216), SIMDA (4000, F101), Zeiss Ikon (P. Softmatic).

Subject to change
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