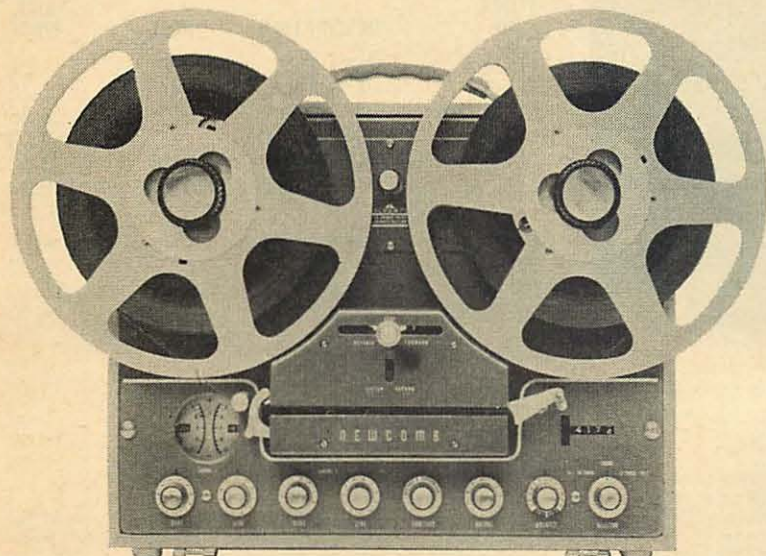


NEWCOMB

PROFESSIONAL STEREOGRAPHIC TAPE
RECORD/PLAYBACK MACHINE

STEREO TAPE RECORDER model SM-310 CYBERNETICALLY ENGINEERED FOR INTUITIVE OPERATION



ALL OF THE FEATURES PROFESSIONALS AND AMATEURS HAVE ALWAYS WANTED IN A STEREO TAPE RECORDER

Records or plays back magnetic tape either stereophonically or monophonically.

Operates vertically or horizontally.

Takes from 3" to 10 1/2" reels.

Has two tape speeds — 7 1/2 or 3 3/4 inches per second.

Push-push speed change with automatic compensation for 3 3/4" speed.

No-stretch, extraordinarily gentle tape handling.

Interlocked separate record function switch requires premeditated, two-hand operation, prevents accidental erasure.

Powerful single motor is fully synchronous, cool running, precision built for continuous dependable operation and accuracy of speed.

Die cast aluminum spindles.

Equipped to handle NAB hubs.

Oversize brakes are designed to last for life of machine.

Straight line tape loading.

Dual acting tape tensioning device keeps tape always under control even with the larger reels.

Automatic shut-off switch.

Four digit counter.

Head cover removable for easy editing.

Positive erase provided by low distortion, balanced Colpitts double triode erase oscillator.

Ganged volume control for outputs.

Balance control, when needed, balances playback level between channels.

Choice of low or high impedance microphone inputs by means of Newcomb Humfree plug-in transformers.

Microphone input sockets take Cannon XLR-3-12C male connectors.

Specifications and Prices subject to change without notice. All parts used in Newcomb Equipment are made in U.S.A. All Newcomb Equipment Approved by Underwriters Laboratories.

Cybernetically engineered for intuitive operation, the Newcomb Model SM-310 is the simplest machine to operate you have ever used. Easiest on tape. Transport control is centered in a single lever "joy stick" that gives fluid smooth, positive, effortless tape handling. Records or plays back magnetic tape either stereophonically or monophonically. Plays or records either or both channels in same direction. Operates vertically or horizontally, takes 3" to 10 1/2" reels, has two tape speeds — 7 1/2" or 3 3/4" ips, die cast aluminum spindles, oversize brakes de-

signed to last for life of machine, separate mixing controls — mike and "line" — for each channel. Two lighted recording level meters, protected against overload, arranged pointer-to-pointer for ready comparison, straight line tape loading, automatic shut-off switch, four digit counter to pinpoint desired position, without repeating, on any size reel; head cover removable for easy editing. All pre-amplification needed for recording and playback. Monitor through Brush binaural headphones while recording. Cathode follower outputs.

SPECIFICATIONS

HEADS.....In line record-playback heads; separate half-track erase heads.

FLUTTER.....Less than .2% on 7 1/2 ips; less than .25% on 3 3/4 ips.

SIGNAL-TO-NOISE

RATIO.....Better than 50 db on 7 1/2 ips; better than 45 db on 3 3/4 ips.

RESPONSE.....At 7 1/2 ips, ± 2 db 30-15,000 cps; at 3 3/4 ips, ± 3 db 40-10,000 cps (based on standard 111 tape.)

EQUALIZATION.....NARTB standard.

OUTPUT.....Average, approximately 1.3 volts from cathode follower, each channel.

BIAS OSCILLATOR.....Push-pull balanced Colpitts for reliability and low distortion.

MAXIMUM PLAYING

TIME.....In excess of 8 hours at 3 3/4 ips, half-track monaural (4800' tape on 10 1/2" reel); in excess of 4 hours at 3 3/4 ips, two track stereo. At 7 1/2 ips the above times will be halved.

REWIND SPEED.....Approximately 2 minutes for 3600 feet.

INPUT JACKS.....(4) Two high level inputs and two microphone inputs (wired for use with Newcomb Humfree Plug-in Transformers for conversion of mike inputs to low impedance).

OUTPUT JACKS.....(3) One for each stereo channel and one monitor.

DIMENSIONS.....12 3/4" x 16 3/4" x 9 1/2".

WEIGHT.....34 pounds.

POWER

REQUIREMENTS.....90 watts, 117 volts, 60 cycles a.c.

PROFESSIONAL NET: \$499.50

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