

**TAKE A
FEW MINUTES
TO FIND
OUT ABOUT A
TAPE DECK
THAT'LL LAST YOU
A LIFETIME.**



brenell

11/1969

The Brenell MK 7S Tape Deck

This machine of studio quality, with full solenoid transport functions, is available from Brenell

As you can see, the sturdy construction is just one of its many features.

Here are the rest:

3-motor operation ensures smooth control of all transport functions. Capstan drive is provided by a hysteresis synchronous outer rotor motor with high starting torque. Maximum life and quiet operation is ensured by a closed lubricated system with sintered bearings. The motor is coupled to a dynamically balanced flywheel. Capstan and flywheel are mounted in heavy duty bearings. Two powerful outer rotor spooling motors ensure smooth fast forward and rewind operation. Rapid acceleration is provided regardless of the distribution of the tape on the reels and automatic tape lifters move the tape off the heads when spooling in either direction. Incorporated with spooling motors there are adjustable band brakes, operated directly by individual solenoids, to maintain efficient braking on large hubs. The transport automatically switches to stop mode at the end of tape.

The conveniently grouped light action illuminated push-buttons control interlocked relays and solid state devices for all transport functions. Separate push-buttons are provided for forward and reverse wind, stop, play and record. Allied to the transport there is a 4-digit counter with a zero re-set button. Electronic interlocks give protection against misuse, and in case of power failure the transport returns to stop mode.

One can bias the machine for specific tapes without resorting to internal adjustment—individual channel bias pre-sets are mounted above the meters on the front panel.

Setting up the proper bias level for either low noise/high output tapes or conventional tapes results in a reduction of background noise and hiss to a lower level, and an increase in signal to noise ratio.

Dual equalisation from front panel controls means that recording to the two professional standards is made conveniently simple. The monitoring of individual tracks is achieved at the touch of a button. Signals from 4 sources (2 line and 2 mic) can be recorded simultaneously and can be mixed. Independent mic and line preamplifiers each with its own level control, provides maximum recording flexibility.

The expanding range, wide excursion, back lighted V.U. meters allow recording at higher levels when using high output tapes, ensuring a better S/N ratio. Optional peak programme meters are available to order.

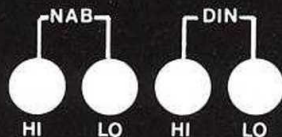
Sound on sound and track to track transfer is made easy—simple button operation controls both functions.

The new Brenell Mk. 7S meets the essential user requirements of reliability in extended operation, high grade engineering, rugged construction and ease of operation.

For convenience the tape deck can be used horizontally, vertically or inclined.



Full Solenoid Transport Functions



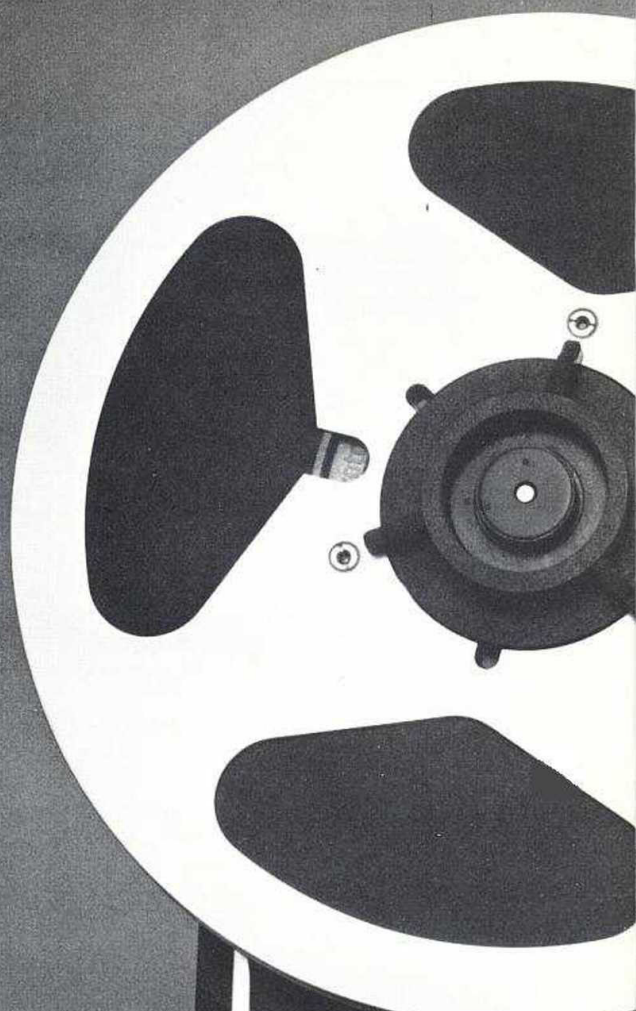
Dual Standard Equalization



Front Panel BIAS Accessibility



10 1/2"/27 cms Spool Capacity



LARGE  SMALL
SPOOL



MK 7S

U

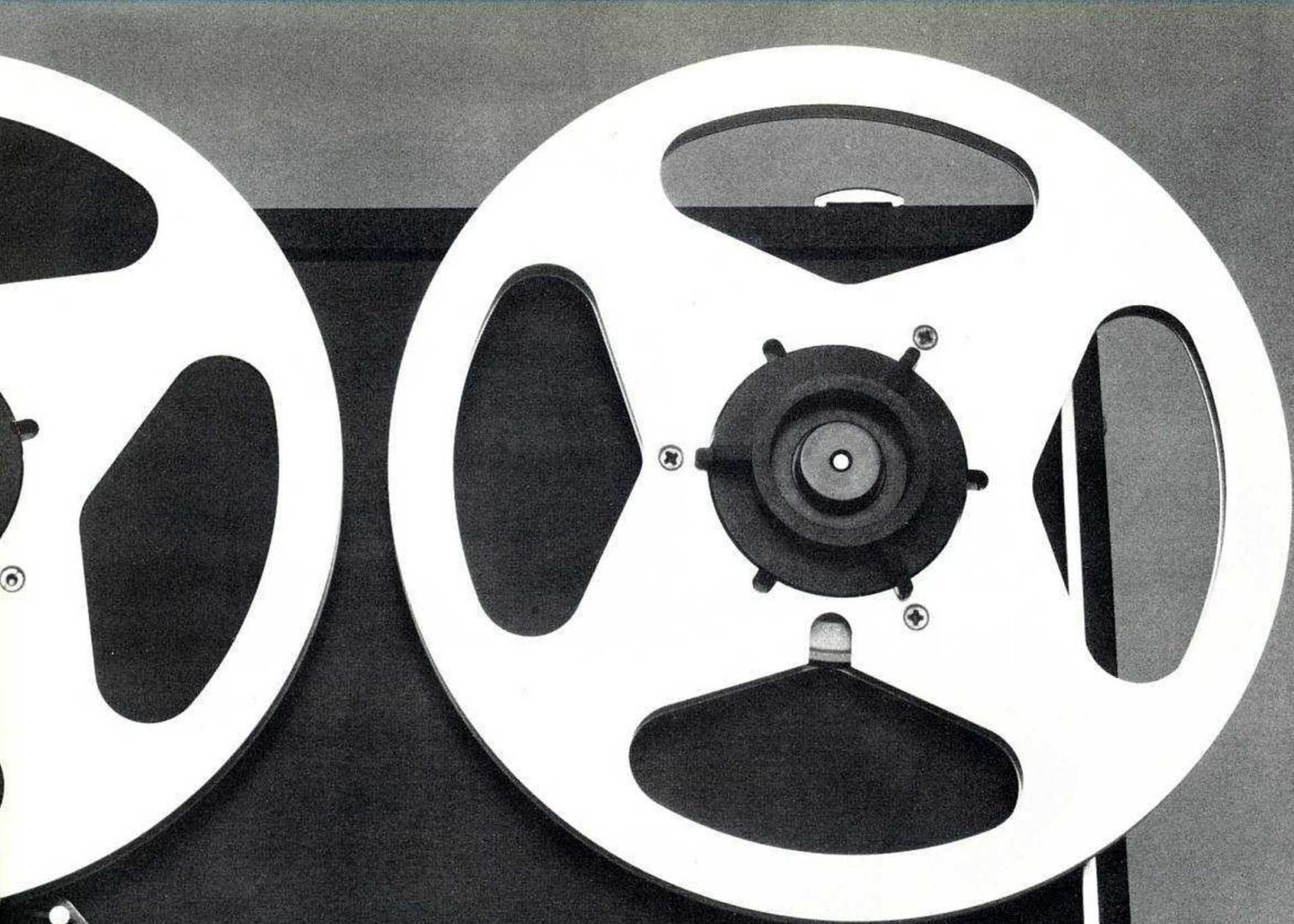
MIC

L

L-U

U-L

S on S



breneil



REC HI LO BIAS HI LO REC

U LINE L

VU UPPER VU LOWER

PHONES

LINE OUT

U L

MONITOR U L

POWER ON

DRM NAB HI LO DIN HI LO REC U L

The control panel features a variety of knobs and switches. On the left, there are two large knobs for 'LINE' input, labeled 'U' (Upper) and 'L' (Lower). In the center, there are two VU meters, one for 'UPPER' and one for 'LOWER' frequencies. To the right of the meters are two more large knobs for 'LINE OUT', also labeled 'U' and 'L'. Below these are several smaller knobs and switches, including a 'POWER ON' button, a 'PHONES' jack, and a 'MONITOR' section with 'U' and 'L' knobs. At the top of the control panel, there are two 'REC' (Record) buttons and a 'BIAS' section with 'HI' and 'LO' settings. At the bottom, there are 'NAB' and 'DIN' sections, each with 'HI' and 'LO' knobs, and another 'REC' section with 'U' and 'L' knobs. The 'DRM' label is partially visible on the far left.

The Tape Transport

Tape Drive

Capstan Drive: New improved system resulting in lower wow and flutter figures at both high and low speeds—incorporating a heavy flywheel mounted in longlife heavy-duty sintered bearings, belt-driven by a 2-speed Hysteresis Synchronous Motor. Spooling Motors are of the outer Rotor type.

Tape Speeds

7½ & 15 ips (19 cms & 38 cms) standard.

3¾ & 7½ ips (9.5 cms & 19 cms) available to order.

Tape Heads

Separate Erase, Record, Playback—Stereo ½-track 2/2, or Stereo ¼-track 2/4.

Deck Functions

Illuminated push-button controls actuating low voltage DC Relays and heavy-duty Solenoids, each indicating the deck function with the addition of correct tape lacing or breakage.

Operational Mode

Horizontal or Vertical.

Fast Winding

2 High torque spooling motors ensure smooth fast forward and rewind operation, typically 100 seconds for 2400 ft.

Brake Mechanism

Solenoid operated providing rapid stop and start action from self-compensating band brakes.

Reel Capacity

Up to 10½"/27 cm. with spool capacity compensation switch

Wow & Flutter

Better than .05% for 15 ips/38 cms. per second and .06% for 7½ ips/19 cms. per second R.M.S. values.

Construction

Special reinforced Aircraft grade alloy chassis, giving maximum rigidity. The 4 p.c. boards are all of high quality glass fibre, fitted with plug-in conservatively rated heavy-duty relays.

Remote Control

Optional with push-button illuminated switches.

Electronics

Inputs

Line Input 100 milli volts—20 volts into 10K Ohm via Jack Sockets. Microphone Input 200 Micro volts—20 milli volts low impedance via Jack Sockets. Second line input 5 pin DIN 2 milli volts—150 milli volts into 47K.

Outputs

Output 1.

Jack socket adjustable up to +20 dBm low impedance 200 ohm.

Output 2.

5 pin DIN 150 milli volts low impedance. Headphone Output. 8 ohms via Stereo Jack Socket.

Options

XLR Connectors and balanced line inputs and outputs (to order).

Overall Frequency Response

15 ips (38cm/s)

30 Hz — 22KHz ±2dB

7½ ips (19cm/s)

30 Hz — 18KHz ±2dB

Record Replay Equalisation

Switchable to NAB & DIN high and low speed by push-button selection.

Signal to Noise Ratio

Unweighted 60dB reference O VU.

Crosstalk

Better than 60dB at 1KHz

A/B Monitoring

Individually switchable.

Record Playback Level Meters.

Large Illuminated meters monitoring during record or playback VU Type. PPMs optional.

Bias

Adjustable high and low separate for each channel from front panel.

Track Transfer Switching.

By push-button selection, enabling up to 4 input mixing also giving echo facilities.

Mains Supply

110v—260v AC AC 50Hz (60Hz optional).

Mains consumption 150 VA.

Dimensions With Lid

460 mm. x 440 mm. x 230 mm.

18" x 17½" x 9"

Weight

40 lbs. 18 kilos

All dimensions and weight approximate.

brenell

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