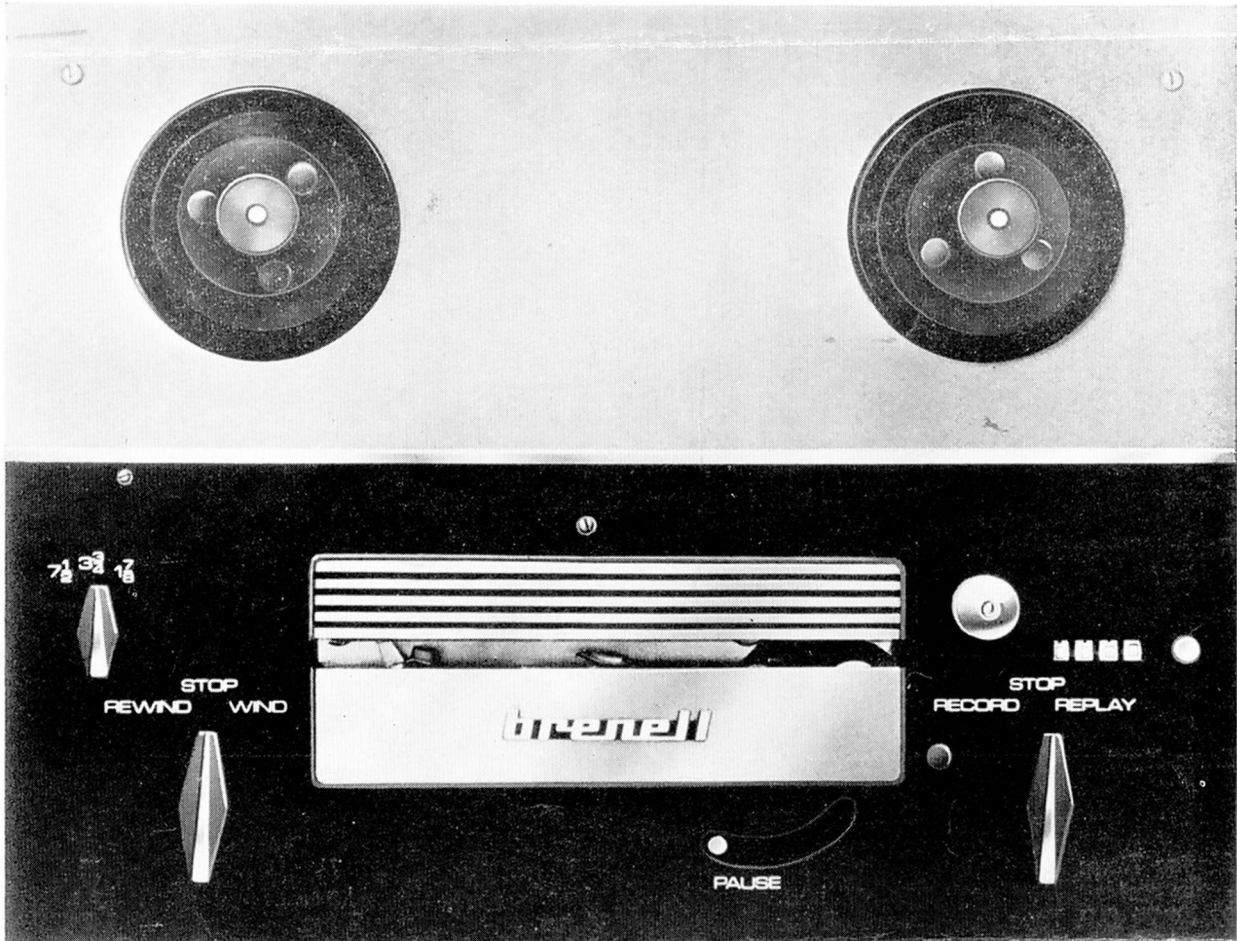


# Mark 6 Tape Deck



(Supplied in its standard form fitted with one u/t erase head and u/t record/playback head, less tape and spool)

This latest tape transport mechanism incorporates features which have made Brenell tape decks famous the world over for their precision engineering, outstanding performance and reliability.

As with previous equipment simplicity of operation is still the keynote. Two switches control the functions of Record, Playback, Wind and Rewind. Switch interlocking prevents misuse of the machine and a safety lock button is incorporated to prevent accidental erasure.

Anticipating the possibility that control of the associated equipment may be required the Record/Playback and Wind/Rewind switches are fitted with longer than usual spindles which will accommodate extra wafers.

The latest self-compensating braking system gives quick stopping facility without tape breakage or spillage and the large dynamically balanced flywheel ensures a very high level of speed stability.

A Pause mechanism which is lockable simplifies the editing of recordings. When the Record/Playback knob is turned to the "OFF" position the pause lock will automatically disengage itself.

A 4 digit revolution counter with push button reset enables quick and easy location of recorded items.

To enable one to use from 3" reels up to the maximum size of 8 $\frac{1}{4}$ ", the deck is fitted with a tape tension adjustable from the top of the deck.

An auto-stop which operates in the case of tape breakage or the tape running out is now a standard feature of the Mark 6 Tape Deck. The new style pull-off head covers give quick access to the heads and pressure pads.

The Mark 6 Tape Deck is supplied to operate at three speeds, i.e. 1 $\frac{7}{8}$ , 3 $\frac{3}{4}$  and 7 $\frac{1}{2}$  i.p.s. At a small extra charge a special capstan sleeve and pinch wheel are available to modify the deck for 15 i.p.s. working.

Normally the Mark 6 Deck is supplied fitted with one u/t erase and one u/t record/replay head. There is however, accommodation provided for the fitting of up to four heads and some of the various combinations are listed below:—

- 1 U/T Erase, 1 U/T Record/Playback.
- 1 U/T Erase, 1 U/T Record, 1 U/T Playback.
- 1 U/T Erase, 1 L/T Erase, 1 U/T R/PB, 1 L/T R/PB.
- 1 2/2 Erase, 1 2/2 R/PB ( $\frac{1}{2}$  track stereo).
- 1 2/2 Erase, 1 2/2 Record, 1 2/2 PB ( $\frac{1}{2}$  track stereo).
- 1 2/4 Erase, 1 2/4 R/PB ( $\frac{1}{4}$  track stereo).
- 1 2/4 Erase, 1 2/4 Record, 1 2/4 PB ( $\frac{1}{4}$  track stereo).
- 1 2/4 Erase, 1 2/4 R/PB with track selector switch ( $\frac{1}{4}$  track mono).

The Specifications of other heads and amplifiers are available on request.

## SPECIFICATION

Mains Voltage	200/250V 50c/s (110-120V 60c/s to order).			
Four Tape Speeds	1 $\frac{7}{8}$ , 3 $\frac{3}{4}$ , 7 $\frac{1}{2}$ and 15 inches per second.			
Three Motors	Outer Rotor Types (Hysteresis Synchronous for capstan drive).			
Wow and Flutter	Less than 0.05% at 15 i.p.s. 0.10% at 7 $\frac{1}{2}$ i.p.s. 0.15% at 3 $\frac{3}{4}$ i.p.s. 0.25% at 1 $\frac{7}{8}$ i.p.s.			
Spool Sizes	Any size up to 8 $\frac{1}{4}$ in. diameter.			
Place Indicator	Digital Revolution Counter.			
Heads	Erase — Low Impedance. Record/Playback — High Impedance.			
Record/Playback Head	Inductance	550 mH		
	Impedance	1 kc/s-3500 ohms		
	D.C. resistance	200 ohms		
	Bias voltage	50V		
	Bias current	550 $\mu$ A		
	A.F. current	75 $\mu$ A		
	Gap width	0.00012 in		
Erase Head	Inductance	5 mH		
	Erase current	22 mA		
	D.C. resistance	12 ohms		
Playing Times per reel	1 $\frac{7}{8}$	3 $\frac{3}{4}$	7 $\frac{1}{2}$	15
	i.p.s.	i.p.s.	i.p.s.	i.p.s.
2,400' 7" D.P. Tape	8 hrs.	4 hrs.	2 hrs.	1 hr.
1,800' 7" L.P. Tape	6 hrs.	3 hrs.	1 $\frac{1}{2}$ hrs	45 mins.
1,200' 7" S.P. Tape	4 hrs.	2 hrs.	1 hr.	30 mins.
	(add 50% to above times for 8 $\frac{1}{4}$ " reels of tape)			
Rewind Time	Approximately 60 secs. per 1,200 ft. Tape.			
Size	Deck mask 15" $\times$ 11 $\frac{1}{2}$ ". Depth below plate, approximately 5". 8 $\frac{1}{4}$ " spool overlap at rear 1 $\frac{1}{2}$ " overlap on each side 1".			
Mounting	Horizontal or vertical.			
Weight	18 lbs.			
Finish	Blue/Grey.			
Record/Playback Switches	These are fitted with extended centre spindles to enable wafers to be fitted.			

### BRENEIL MARK 610 TAPE DECK FOR 10 $\frac{1}{2}$ " NAB AND STANDARD REELS

A modified Mark 610 tape deck is available which is basically the same as the standard Mark 6 deck with the exception of the siting of the rewind and take-up motors and the provision of special adaptors to enable the standard type spool holders to accommodate 10 $\frac{1}{2}$ " NAB reels.

Designated the "Mark 610" this deck is available for use on mains voltages of 200/250V 50c/s (100-120V 60c/s to order).

Finish: Blue/Grey.

*Brenell Engineering reserve the right to alter the specification as modifications are made.*

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