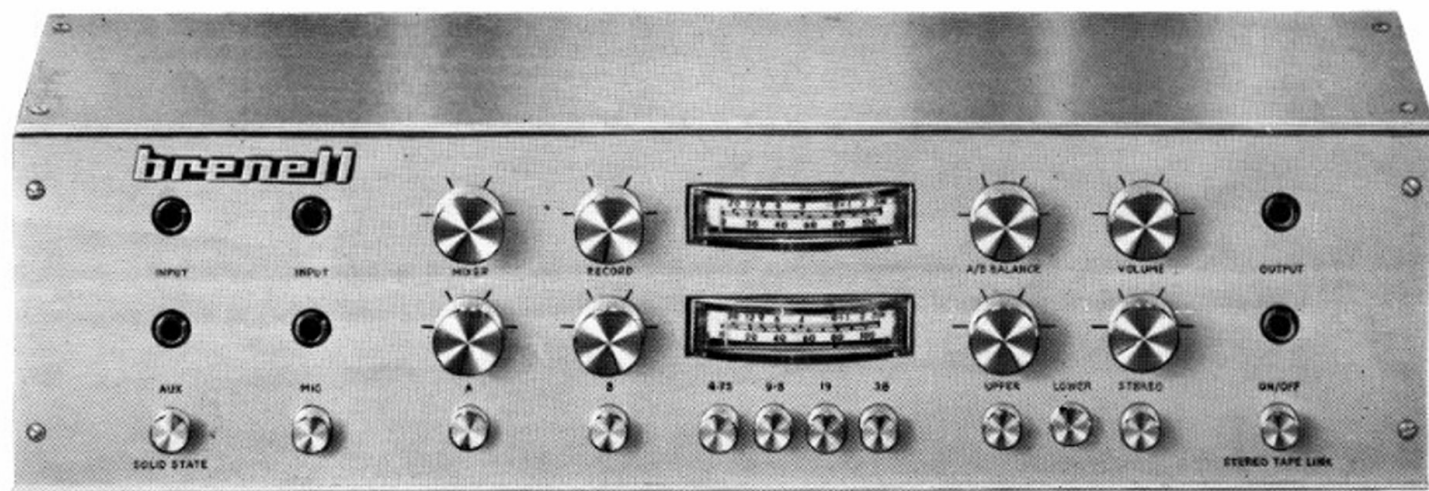


brenell



Transistorised Hi-Fi Tape Link

As most owners of High Fidelity sound reproducing equipment will know, tape recordings cannot be made from the amplifiers and pre-amplifiers by simply connecting a tape deck to the sockets marked 'Record'. A vital 'Link' between tape deck and amplifying equipment is required, i.e. specially designed recording amplifiers incorporating high frequency Erase/Bias oscillators matched for use with the heads on the tape deck. Similarly for playback purposes, if the very best reproduction at all tape speeds is to be accomplished, specially designed playback pre-amplifiers must be incorporated between the tape deck and the pre-amplifiers of the High Fidelity equipment. The New Brenell Transistorised Hi-Fi Tape Link contains twin recording amplifiers, Bias/Erase oscillator, twin playback pre-amplifiers and is designed for use with a three headed stereo-

phonic tape deck, i.e. separate Erase, Recording and Playback heads of either the half track or quarter track types and any make of High Fidelity amplifying equipment capable of supplying a signal level from Radio Tuners, Microphones, Gramophone Pick-ups, etc., of at least 8 millivolts (the maximum output from a Hi-Fi pre-amp usually ranges from 125 to 250 millivolts). Mono and Stereo recording facilities are provided and whilst recording is in progress one may listen to the recorded material a fraction of a second after the recording has taken place or to the signal being fed to the recording amplifier. (Immediate comparison of the recorded and original signals may be made). Gain controls give individual control of the two recording amplifiers. Frequency correction for four tape speeds, both for recording and replaying is incorporated.

Specifications

Recording Amplifiers

Inputs	Sensitivity	Impedance
Microphones	200 microvolts	for 200 ohm to 600 ohm microphones
Auxiliary	8 millivolts (Front)	50K ohms
Auxiliary	8 millivolts (Rear)	50K ohms

Mixing

Between Microphones and Auxiliary inputs: cross fade system.

Modulation Level Indicators

Two Illuminated Meters.

Frequency Compensation

All Four Tape Speeds, i.e. 1½ 3½ 7½ and 15 ips (4.75 9.5 19 and 38 cms)

Record Mode Selection

Upper: Lower: Stereo.

PLAYBACK PRE-AMPLIFIERS

Output Level

Maximum 1.4v (2v @ 2% distortion level)—Impedance 600 ohms

Output Sockets

Two at rear, and two on front panel.

Frequency Compensation

For 4 speeds: 1½ 3½ 7½ and 15 ips (4.75 9.5 19 and 38 cms)

A/B Switching

Comparison of recording with original signal.

A/B Balance

Balance of levels for comparison purposes.
Covers inputs of 80 mv to 300 mv.

Record/Playback

Frequency response when used with heads specified

15 ips (38 cms) 40 Hz — 22 KHz ± 3 db

7½ ips (19 cms) 40 Hz — 20 KHz ± 3 db

3½ ips (9.5 cms) 50 Hz — 14 KHz ± 3 db

1½ ips (4.75 cms) 60 Hz — 7 KHz ± 3 db

Signal to Noise Ratio

Unweighted (for 2% distortion level) 56 db.

Dimensions and Weight

Tape Link: 15" x 7" x 4½" (38.1 x 17.78 x 10.18 cm) 9 lb (4.082 Kg)

Power Unit: 5½" x 5½" x 4¾" (14 x 14.5 x 12 cm) 5 lb (2.268 Kg)

The Brenell Transistorised Tape Link is designed to operate with Tape Decks having Three Heads of the following types

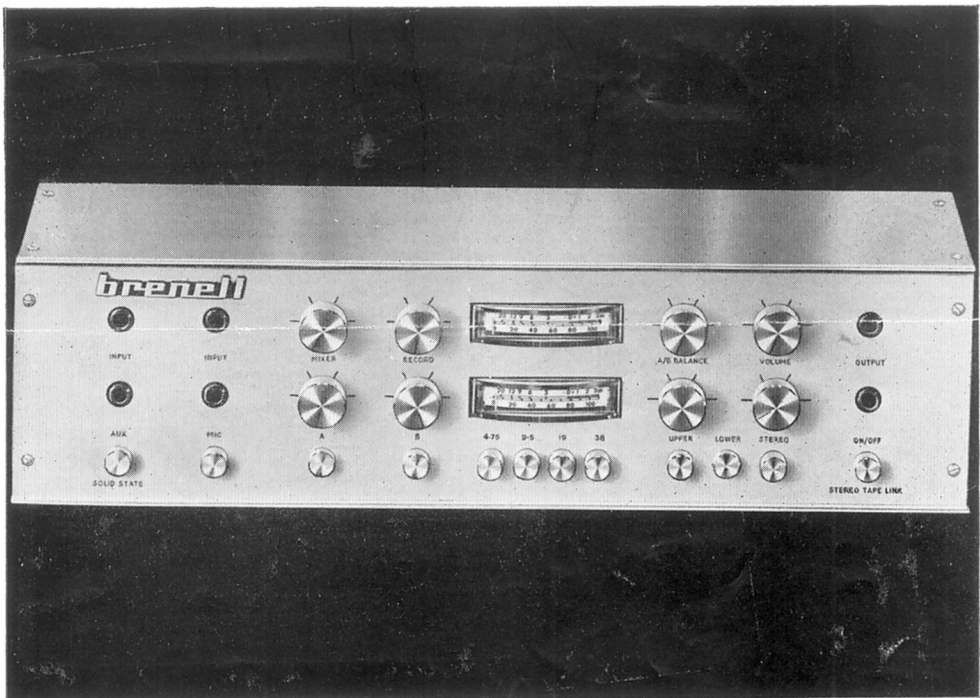
	Erase	Record	Playback
2/2 Track	UL 290	UK 202	UK 202
2/4 Track	UL 296	UK 207	UK 207

Supplied with Power Unit and all cables necessary for connecting to Tape Deck.

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

The Brenell Engineering Co. Ltd.
231-235 Liverpool Road
London N1
Telephone 01-607 8271

Transistorised Hi-Fi Tape Link



As most owners of High Fidelity sound reproducing equipment will know, tape recordings cannot be made from the amplifiers and pre-amplifiers by simply connecting a tape deck to the sockets marked "Record". A vital "Link" between tape deck and amplifying equipment is required, i.e. specially designed recording amplifiers incorporating high frequency Erase/Bias oscillators matched for use with the heads on the tape deck.

Similarly for playback purposes, if the very best reproduction at all tape speeds is to be accomplished, specially designed playback pre-amplifiers must be incorporated between the tape deck and the pre-amplifiers of the High Fidelity equipment.

The New Brenell Transistorised Hi-Fi Tape Link contains twin recording amplifiers, Bias/Erase oscillator, twin playback pre-amplifiers and is designed for use with a three headed stereophonic tape deck, i.e. separate Erase, Recording and Playback heads of either the half track or quarter track types and any make of High Fidelity amplifying equipment capable of supplying a signal level from Radio Tuners, Microphones, Gramophone Pick-ups, etc., of at least 8 millivolts (the maximum output from a Hi-Fi pre-amp usually ranges from 125 to 250 millivolts).

Mono and Stereo recording facilities are provided and whilst recording is in progress one may listen to the recorded material a fraction of a second after the recording has taken place or to the signal being fed to the recording amplifier. (Immediate comparison of the recorded and original signals may be made). Gain controls give individual control of the two recording amplifiers. Frequency correction for four tape speeds, both for recording and replaying is incorporated.

TRANSISTORISED TAPE LINK SPECIFICATION

RECORDING AMPLIFIERS :

Inputs	Sensitivity	Impedance
Microphones	200 microvolts	for 200 ohm microphone
Auxiliary	8 millivolts (Front)	50K ohms
Auxiliary	8 millivolts (Rear)	50K ohms

Mixing : between Microphones and Auxiliary inputs—cross fade system.

Modulation Level Indicators : Two Illuminated Meters.

Frequency Compensation : All Four Tape Speeds, i.e. 1 $\frac{1}{2}$, 3 $\frac{3}{4}$, 7 $\frac{1}{2}$ and 15 i.p.s. (4.75, 9.5, 19 and 38 c.m.s.)

Record Mode Selection : Upper—Lower—Stereo.

PLAYBACK PRE-AMPLIFIERS

Output Level : Maximum 1.4v (2v @ 2% distortion level)

Output Sockets : Two at rear, and two on front panel.

Frequency Compensation : For 4 speeds—1 $\frac{1}{2}$, 3 $\frac{3}{4}$, 7 $\frac{1}{2}$ and 15 i.p.s. (4.75, 9.5, 19 and 38 c.m.s.)

A/B Switching : Comparison of recording with original signal.

A/B Balance : Balance of levels for comparison purposes.

Covers inputs of 50 mv to 300 mv.

RECORD/PLAYBACK Frequency response when used with heads specified :—

15 i.p.s. (38 c.m.s.)	40Hz to 22KHz \pm 3 db
7 $\frac{1}{2}$ i.p.s. (19 c.m.s.)	40Hz to 20KHz \pm 3 db
3 $\frac{3}{4}$ i.p.s. (9.5 c.m.s.)	50Hz to 14KHz \pm 3 db
1 $\frac{1}{2}$ i.p.s. (4.75 c.m.s.)	60Hz to 7KHz \pm 3 db

Signal to Noise Ratio: Unweighted (for 2% distortion level) 56 db.

Dimensions & Weight : Tape Link — 15" x 7" x 4 $\frac{1}{4}$ " (38.1 x 17.78 x 10.18 c.m.)

— 9 lb (4.082Kg)

Power Unit — 5 $\frac{1}{2}$ " x 5 $\frac{3}{4}$ " x 4 $\frac{3}{4}$ " (14 x 14.5 x 12 c.m.)

— 5 lb (2.268Kg)

THE BRENNELL TRANSISTORISED TAPE LINK IS DESIGNED TO OPERATE WITH TAPE DECKS HAVING THREE HEADS OF THE FOLLOWING TYPES :

	Erase	Record	Playback
2/2 Track	UL 290	UK 202	UK 202
2/4 Track	UL 296	UK 207	UK 207

Supplied with Power Unit and all cables necessary for connecting to Tape Deck.

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

Manufactured by:

BRENNELL ENGINEERING CO. LTD.,
231/235 Liverpool Road, London, N.1

Tel. No.: 01-607 8271

Telephone : 01-607 8271/5

INVOICE

D 040639

BRENELL ENGINEERING CO. LTD

231/235 LIVERPOOL ROAD

LONDON, N.1

TERMS : NETT MONTHLY

YOUR ORDER No. verbal	DESPATCHED 29.2.72 collected	DATE OF INVOICE 29.2.72	UNIT PRICE		TRADE TERMS	NET PRICE		PURCHASE TAX				
			£	p		£	p	£	p	£	p	
.....												
One - Tape Link			65	70	net					65	70	
Despatch Address if different from above :-			POSTAGE & PACKING									
			SUB TOTAL									
			PURCHASE TAX									
			TOTAL						65	70		

SPEEDISET®
LAMSON PARAGON

IMPORTANT

Goods on this Invoice were despatched on.....No claim for shortage or damage can be allowed unless carriers and ourselves are notified in writing WITHIN 3 DAYS from receipt of goods. No claim for non-delivery can be recognised unless we or the carriers are notified within 14 days of said date.