DRAWMER

DS 201

SERVICE INFORMATION

SETTING UP PROCEDURE

Set all rotary controls anti-clockwise.

Set switches (both channels) :

Key Source	:	INT
Function	:	DUCK (Green l.e.d. on)
Output	:	GATE

Set switches :

Stereo Link	:	ON (l.e.d. on)
Power	:	ON

Connect 1 kHZ 0dBV signal to input of channel 1.

Link across to input channel 2.

Turn channel 1 key filter HF control fully clockwise.

Turn channel 1 threshold control clockwise until gating occurs (green l.e.d. off, red and yellow l.e.d. on).

Osc. probe to output of V.C.A. op. amp channel 1 (see Fig 1).

Osc. sens. 5mV/div.

Adjust DC.

Bal pre-set to give 0V D.C.

Adjust zero bal. pre-set to null any signal.

REPEAT for channel 2.

Osc. probe to Output channel 1 (XLR or jack socket).

Turn F.e.t. bias pre-set (channel 1) anti-clockwise until A.C. signal appears, then clockwise only to the point where the signal disappears.

It may be necessary at this point to re-null using the Zero Bal pre-set.

REPEAT for channel 2.

This completes the basic setting of the dual noise gate.

STEREO OPERATION (Stereo Link On)

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Optimum stereo matching of both channels may be obtained as follows:-

After setting up the gate to the previous procedure;

Connect each output to an input of a dual beam Osc. (sens. -5V/div timebase 1 ms/div).

Switch scope to display both channels.

Connect a 100HZ, 1 ms pulse to the EXT key input (channel 1).

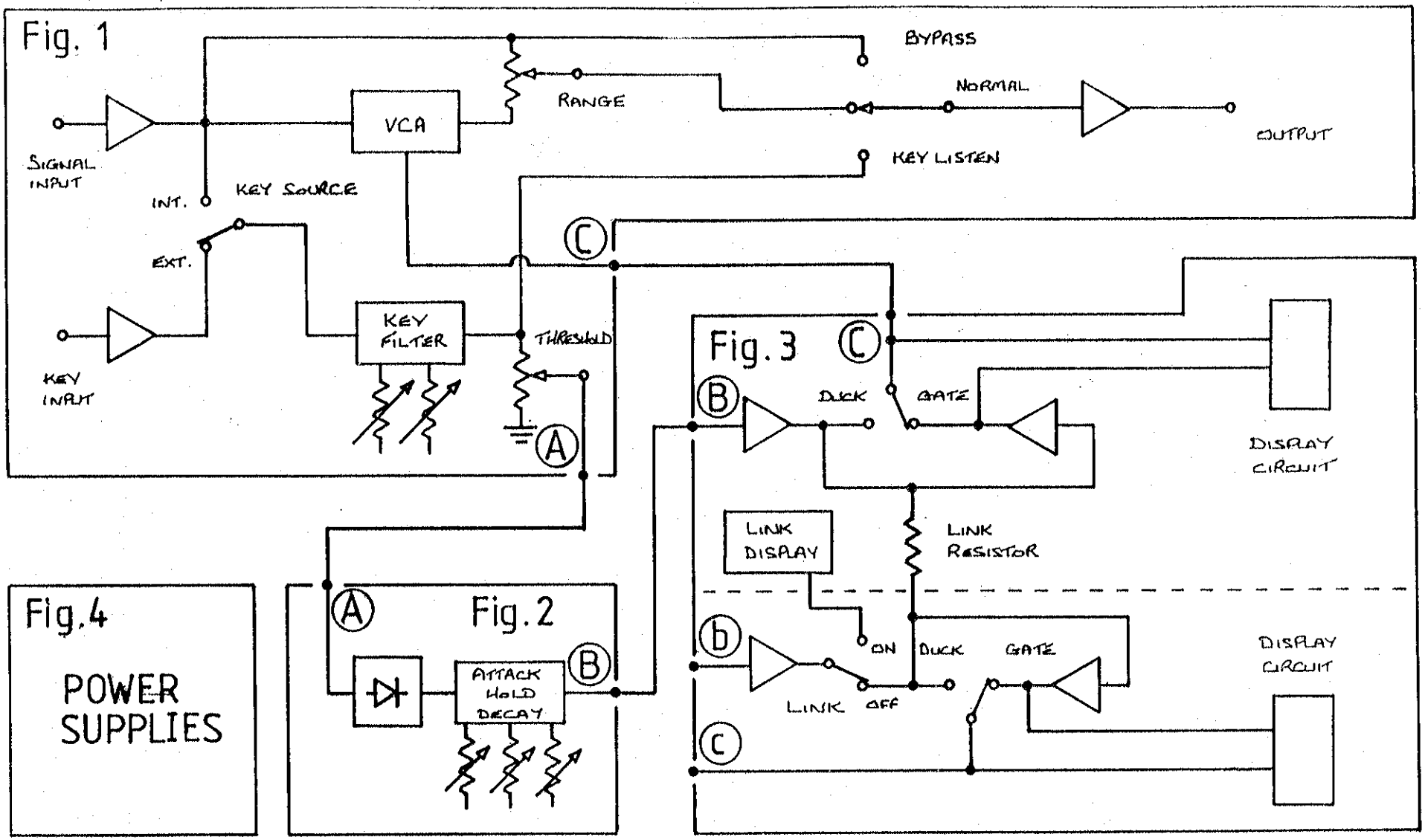
Switch channel 1 Key source to EXT.

Increase signal input frequency from 1 kHZ to 10kHZ.

Switch function to gate (both channels).

The scope display should now contain both gated envelopes.

Trim channel 1 F.e.t. bias pre-set until both cut-off points match as closely as possible.

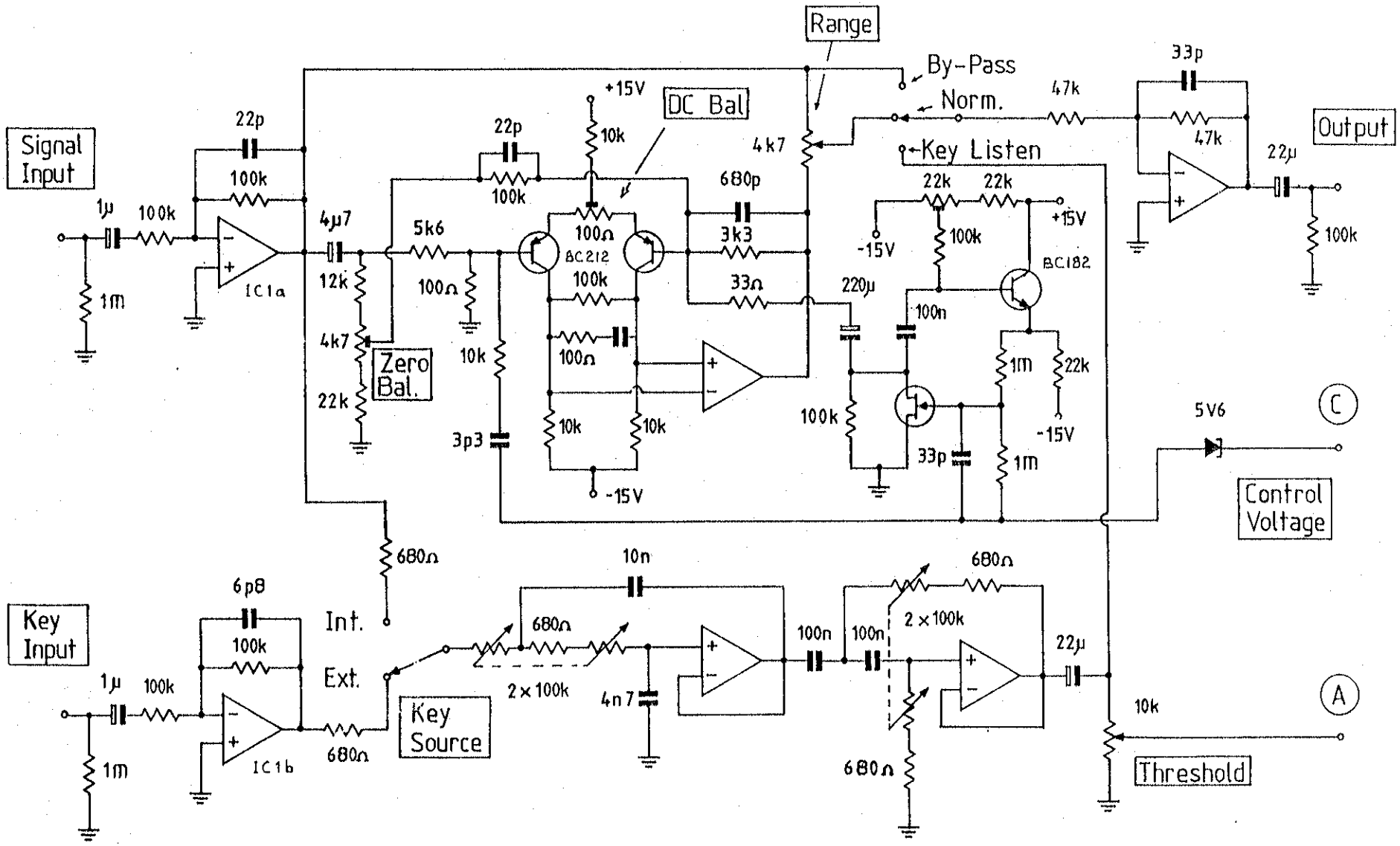


DS 201 DUAL NOISE GATE

(BLOCK DIAGRAM)

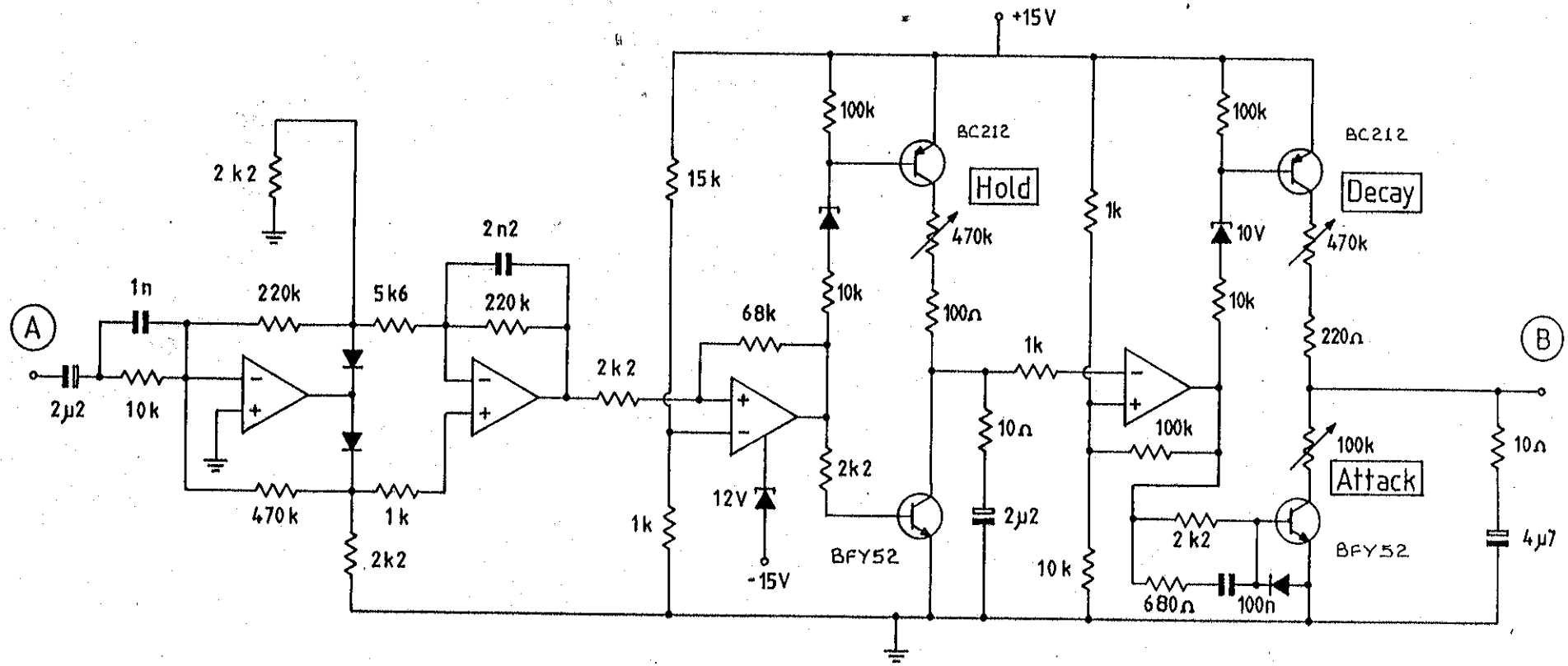
DRAWMER ELECTRONICS

DS 201 (Fig.1) Audio and VCA Circuits

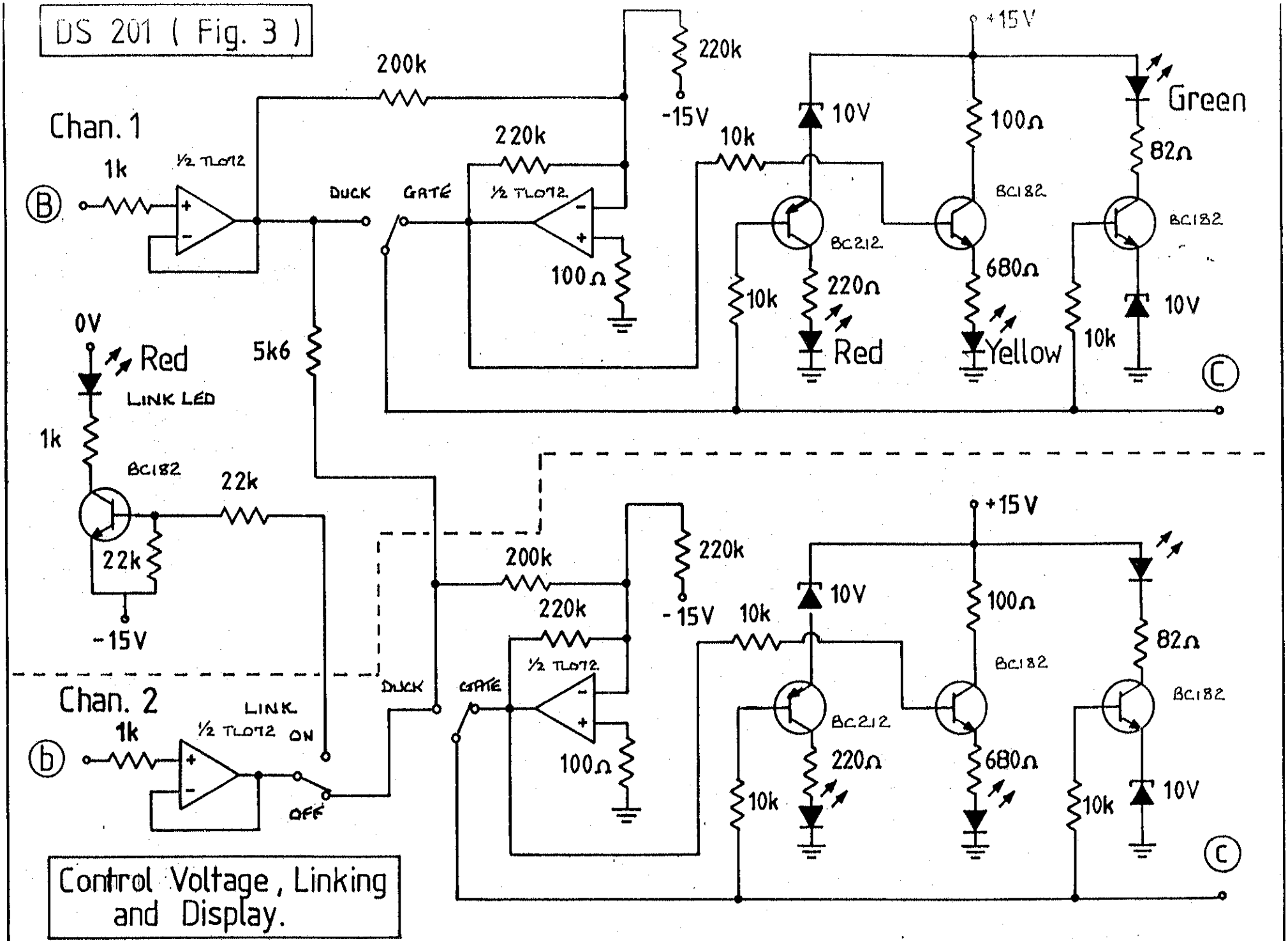


All Op. Amps. TL072 or LF353

DS 201 (Fig. 2) Rectifier. Attack, Hold, Decay Circuits.



All Op. Amps. TL072 or LF353


DS 201 (Fig. 3)
Chan. 1
Chan. 2
Control Voltage, Linking and Display.
200k
220k
-15V
+15V
10V
100Ω
82Ω
Green
1k
½ TL072
DUCK
GATE
10k
BC212
BC182
680Ω
220Ω
Red
Yellow
0V
LINK LED
5k6
22k
LINK
ON
OFF
B
C
b
c

DS 201 (Fig. 4) Power Supplies