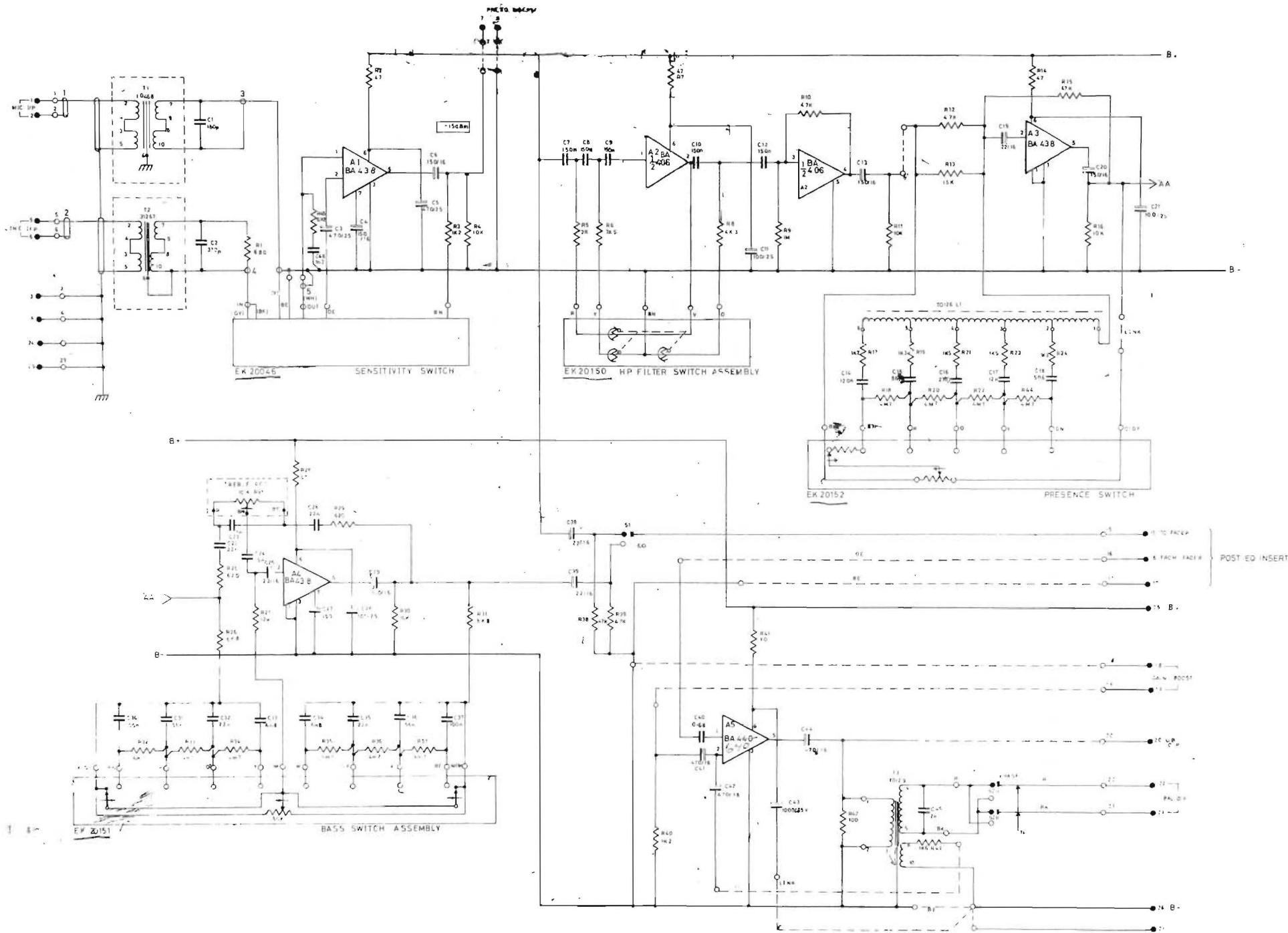


PARTS LIST

Ref	Description				Part No.
R1	Resistor	100	TR4	2%	RA100R0
R2	"	20K	"	"	RA020K0
R3	"	5K1	"	"	RA005K1
R4	"	100	"	"	RA100R0
R5	"	2K4	"	"	RA002K4
R6	"	150	"	"	RA150R0
R7	"	10K	"	"	RA010K0
R8	"	560	"	"	RA560R0
R9	"	4K7	"	"	RA004K7
R10	"	1K5	"	"	RA001K5
R11	"	3K0	"	"	RA003K0
R12	"	10K	"	"	RA010K0
R13,14	"	430	"	"	RA430R0
R15	"	6K8	"	"	RA006K8
R16	"	10K	"	"	RA010K0
R17	"	1M	CR25		RFO01M0
R18	"	10K	TR4	2%	RA010K0
R19	"	2K4	"	"	RA002K4
R20	"	10K	"	"	RA010K0
R21,22	"	1K	"	"	RA001K0
R23,24	"	100	"	"	RA100R0
C1	Capacitor	10	μF,	25V TAG	CA60100
C2	"	100	nF,	C280AE/P100K	CA21000
C3,4,	"	15	nF,	C280AE/P15K	CA20150
C5	"	100	μF,	25V	CA61002
C6	"	22	μF,	16V TAG	CA60223

BA  
358

BA 362

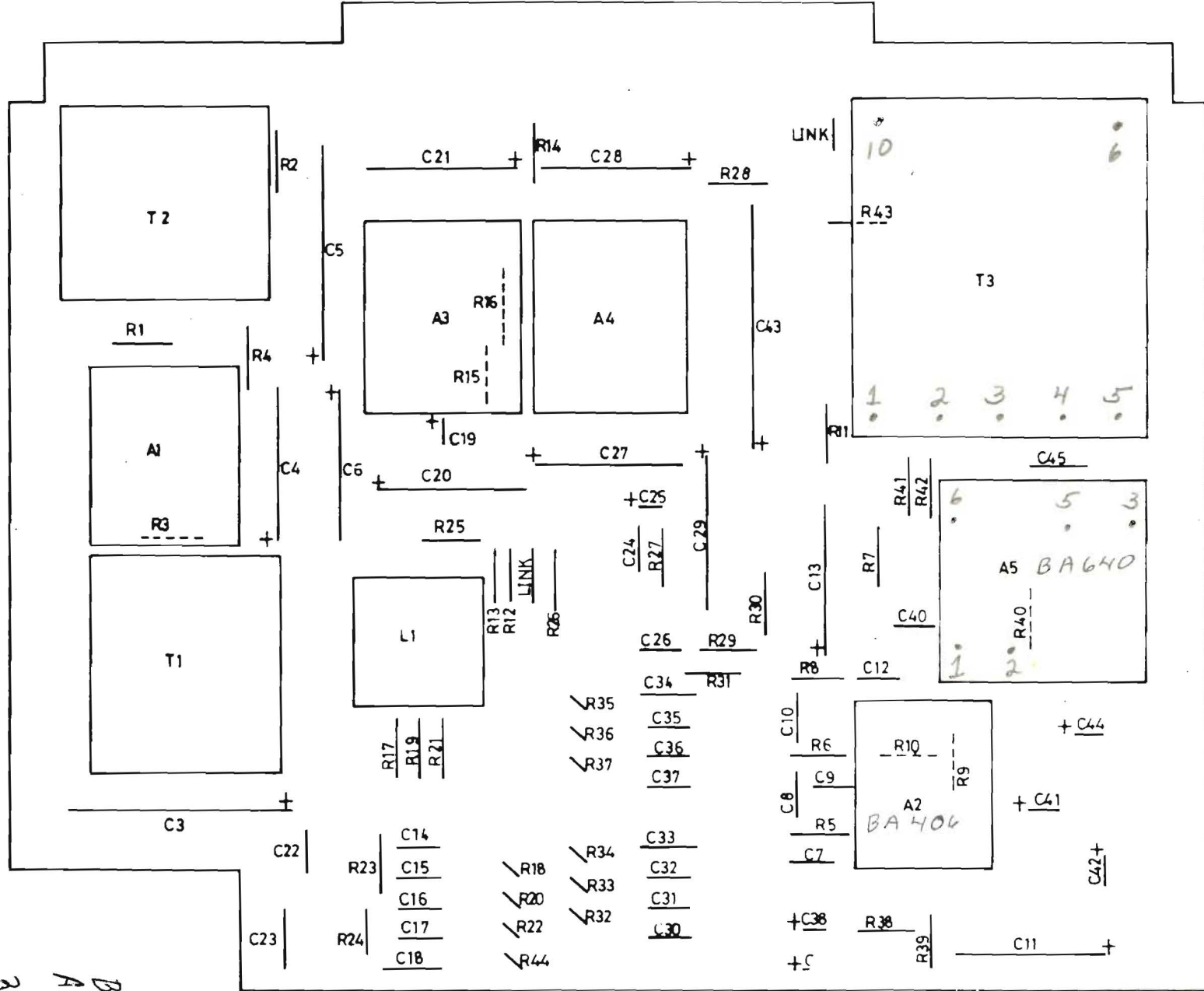


3115 CHANNEL AMPLIFIER (INC BA362 MOTHER BOARD) EH 10050 ISSUE 5

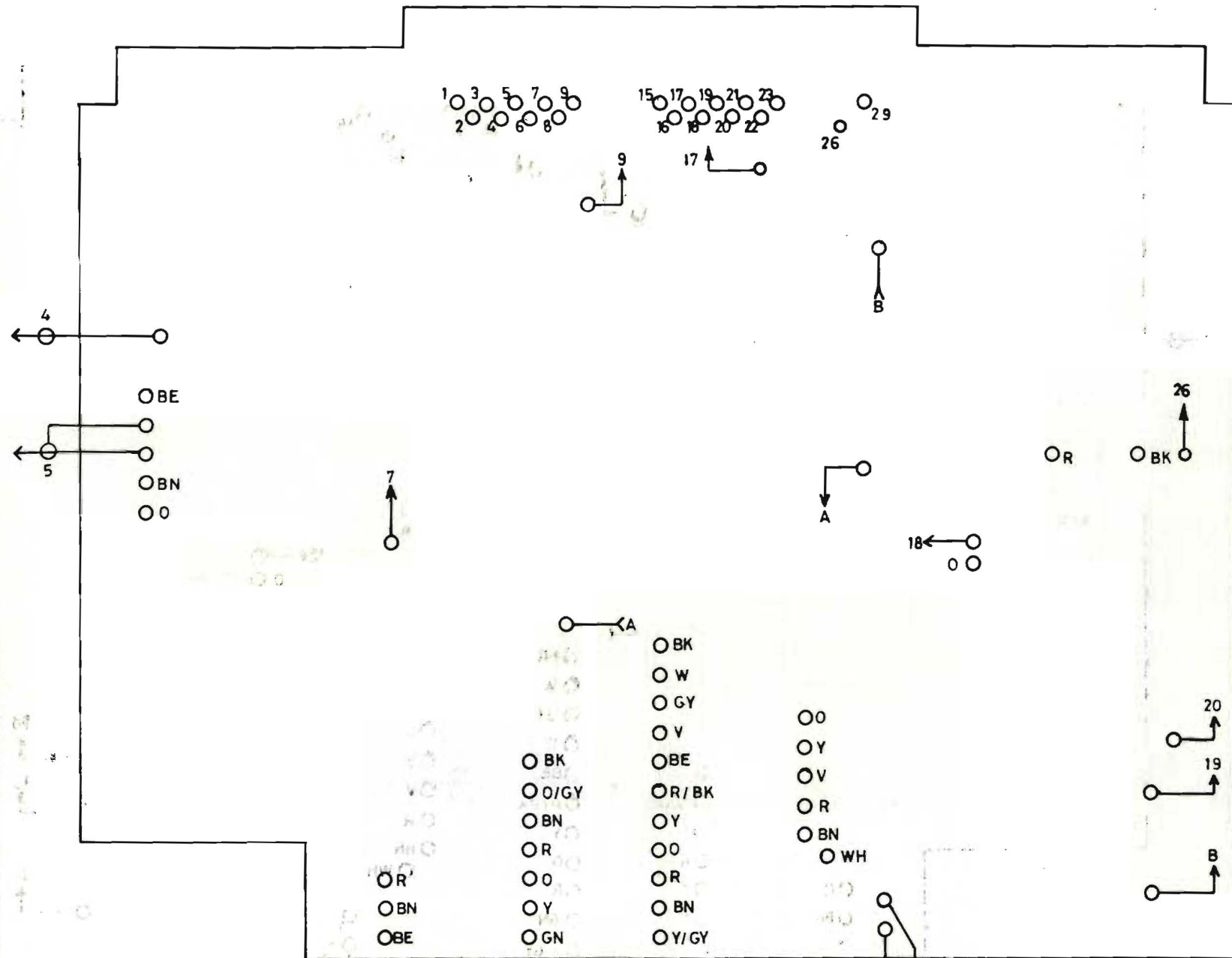
BA 362

# COMPONENT LAYOUT

BA 362

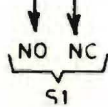


BA 362

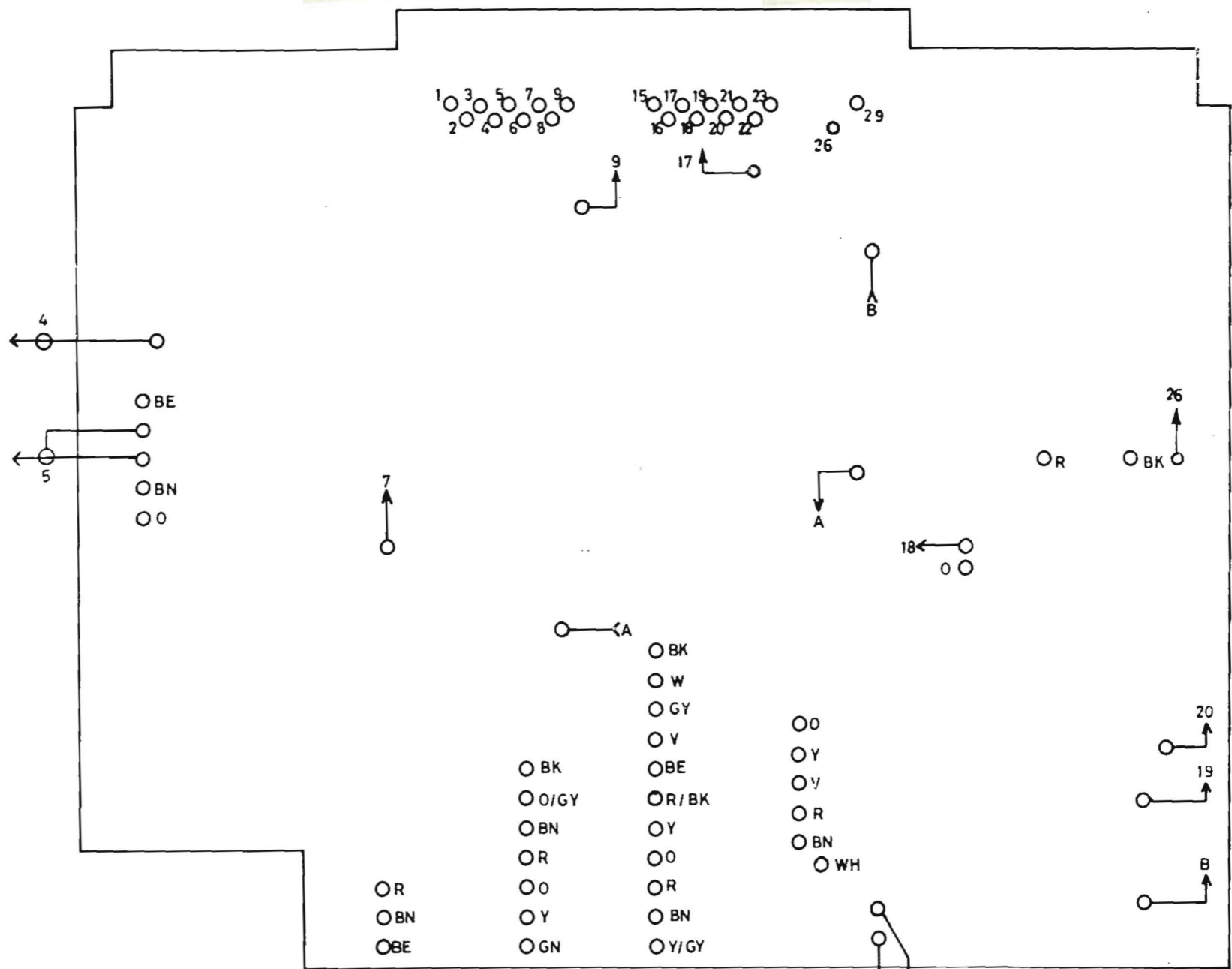


**PIN IDENTIFICATION**

BA362



BA 362



PIN IDENTIFICATION

BA362

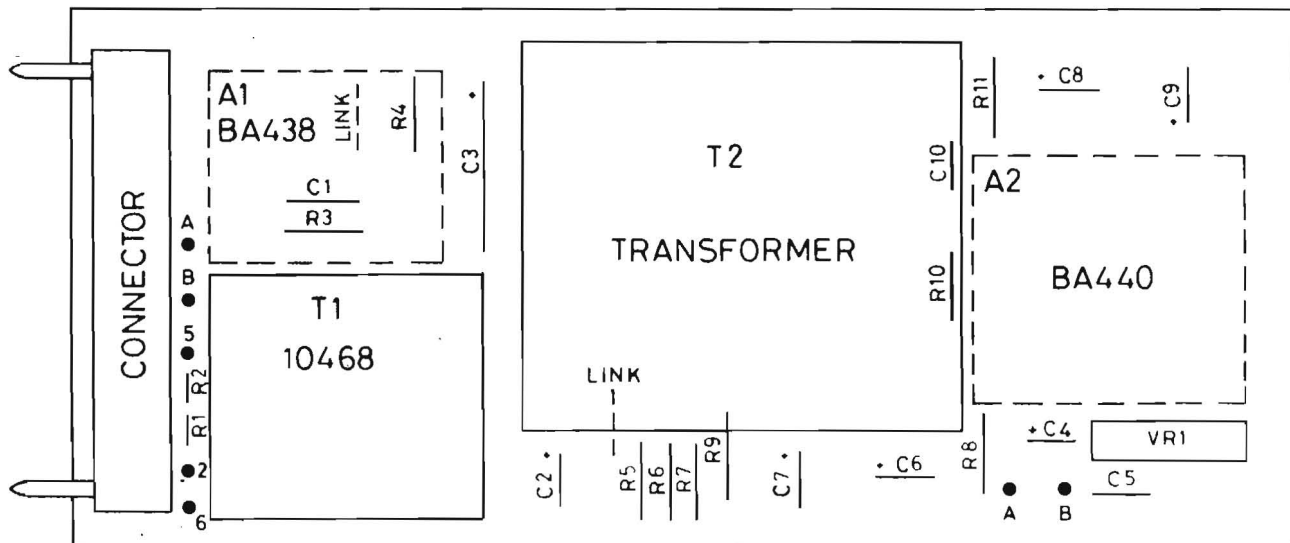
BA 362

NO NC

BH 366 / SEE ALSO: BA 358;

PARTS LIST MOTHERBOARD ASSEMBLY BA366 (3415)

Ref	Description	Part No.
R1,2,8	Resistor TR4 5% 1K2 ohms	RA001K2
R3	Resistor " " 4K7 ohms	RA004K7
R4	Resistor " " 47 ohms	RA047R0
R5	Resistor " " 510 ohms	RA510R0
R6	Resistor " " 3K9 ohms	RA003K9
R7	Resistor " " 2K4 ohms	RA002K4
R9	Resistor " " 1K6 ohms	RA001K6
R10	Resistor " " 100 ohms	RA100R0
R11	Resistor " " 10 ohms	RA010R0
RV1	Potentiometer 10K Lin (Rect)	PT15022
C1	Capacitor, Suflex 470 pF	CA14700
C2,6,7,9	Capacitor, Electro. 470 μF, 16V	CA64704
C3	Capacitor, Electro. 100 μF, 25V	CA61002
C4	Capacitor, TAG 22 μF, 16V	CA60223
C5	Capacitor, TAG 33 μF	CA60030
C8	Capacitor, Electro. 470 μF, 25V	CA64703
T1	Transformer 10468S	TF10003
T2	Transformer T1751	TF12012
	Connector ELCO 17-way plug	CN10342
BA366	Printed Circuit Board	EV10366
A1	Printed Circuit Board BA438	PL10438
A2	Printed Circuit Board BA440	PL10440
C10	Capacitor, Suflex	CA 20020
<u>BA366 (3415X)</u>		
T2	Transformer T1799 (150 ohms) (Remainder of Parts List as 3415 version)	XX13717

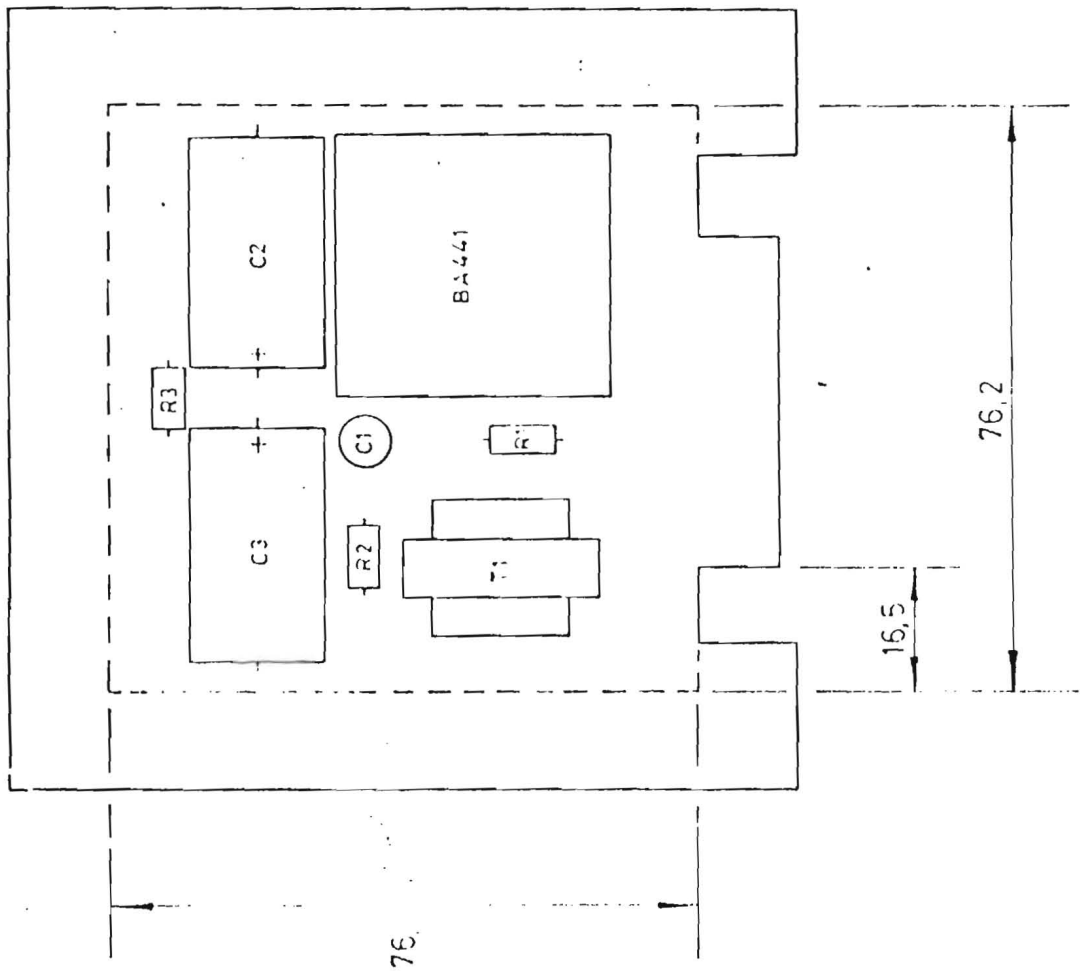
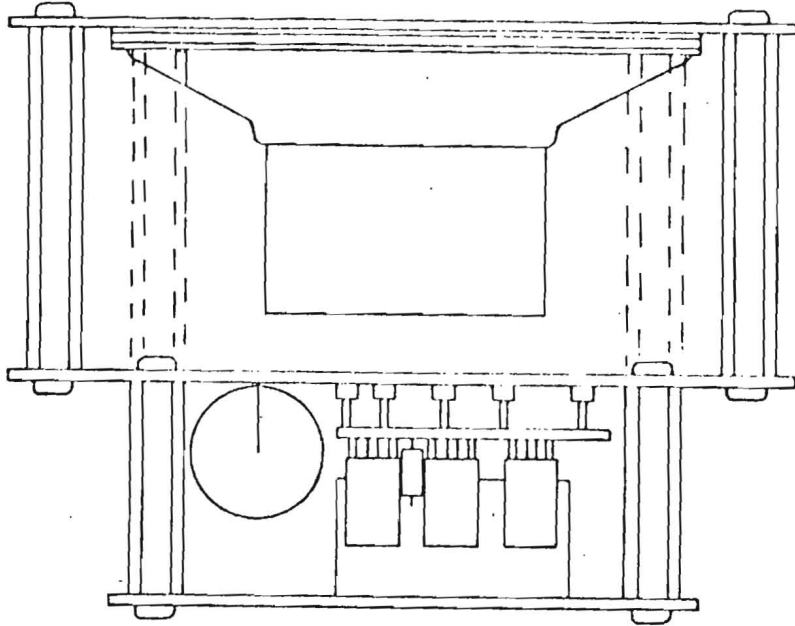


B  
A  
3  
6  
6

BA 371/B

LOUDSPEAKER AMPLIFIER ASSEMBLY BA371/B

COMPONENT LAYOUT



NOTE: BOARD TO BE CUT TO DOTTED PROFILE DIMS.  
WHEN USED ON 3" SPEAKER.

BA 371/B

## BA374 INFORMATION

## GENERAL DESCRIPTION

The BA374 P.P.M. Drive Amplifier is contained on a double-sided printed circuit board measuring 3 inches by 2.4 inches (7.5cm x 6cm) fitted with an integral 15-way edge connector. Holes are provided for an alternative method of mounting directly on the terminals of the associated P.P.M. meters (Sifam 22F, R32F and D14) with which it is designed to operate. Using the R32F meter, the assembly meets requirements of BS4298 : 1968.

Facilities are provided for operating from balanced lines at 0dBu or -20dBu, the input impedances being respectively 49K and 8.3K. Up to five slave meters may be driven using individual series and shunt resistors.

Power supply requirement is 30mA at 24V. Integrated circuits are used throughout to ensure good stability and adjustments are provided for scale marks '2' and '6'.

Accidental reversing of the P.C.B. edge connector will not damage the circuit.

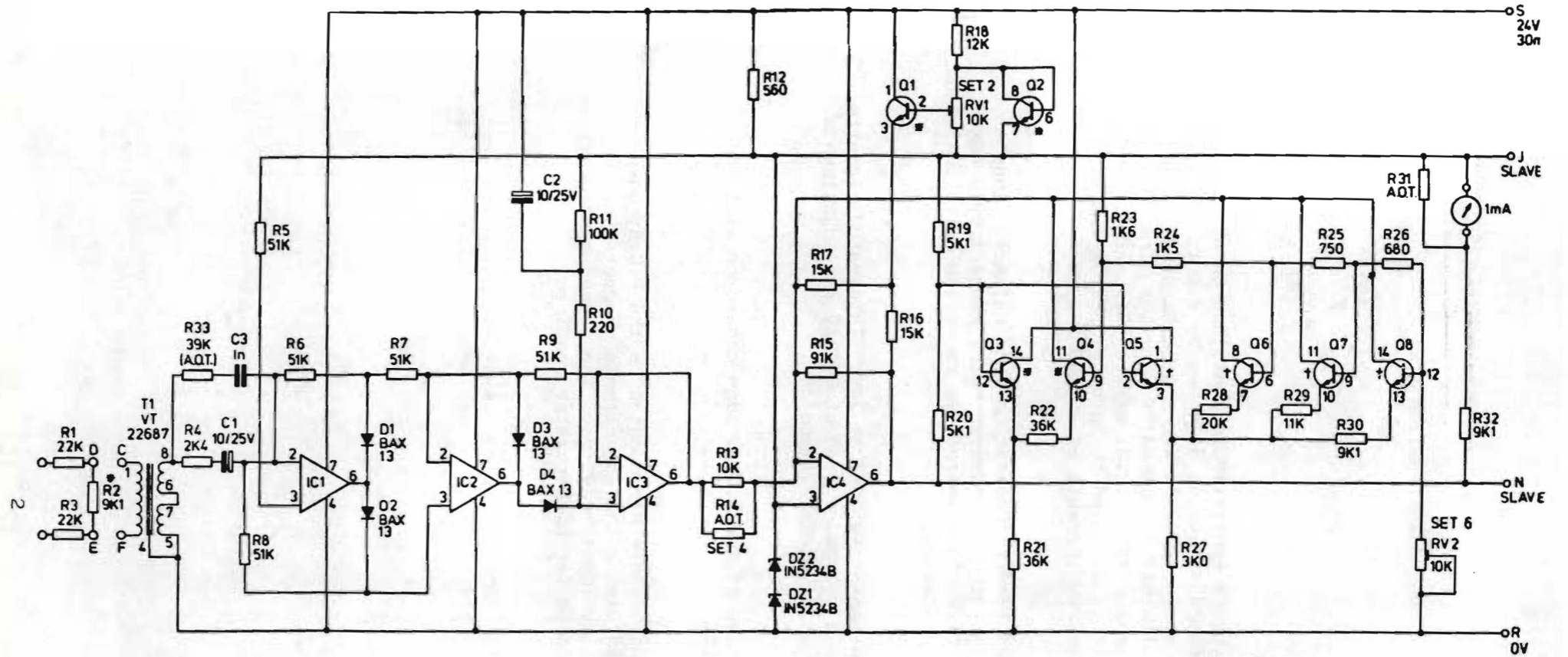
Two pre-set potentiometers are mounted on the P.C.B; one for automatically maintaining the logarithmic character of the meter reading at low input readings. The second control gives a means of correction for higher meter readings.

Variations in meter sensitivity can be provided for by changing an identified resistor on the printed circuit boards.

B  
A  
3  
7  
4



EX 10374

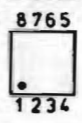


**NOTES:**

1. CONNECT INPUT TO B & H.
2. FOR 0dBm SENSITIVITY CONNECT C TO D AND F TO E (I/P B & H).
3. FOR -20dBm SENSITIVITY CONNECT C TO B AND F TO H (I/P B & H).
4. SLAVE METER MAY BE CONNECTED BETWEEN J (-ve) AND N (-ve) VIA 9K1 RESISTOR. TRIM SENSITIVITY WITH SHUNT ACROSS SLAVE METER.
- \* 5. VALUE R2 VARIES ACCORDING TO METER SCALE. REFER TABLE BELOW —

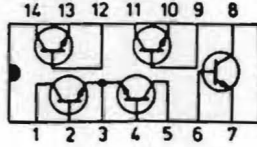
SCALE	100% MOD AT	AT 100% MOD METER READS	* VALUE R2	NOTES
A	+6dBm	mark 0	16K	
B	+8dBm	.. 6	9K1	B.B.C.
E	+8dBm	.. 8	9K1	EASTERN EUROPE
A	+8dBm	.. 0	9K1	

IC1-4 ARE 741



\* IC5 + IC6

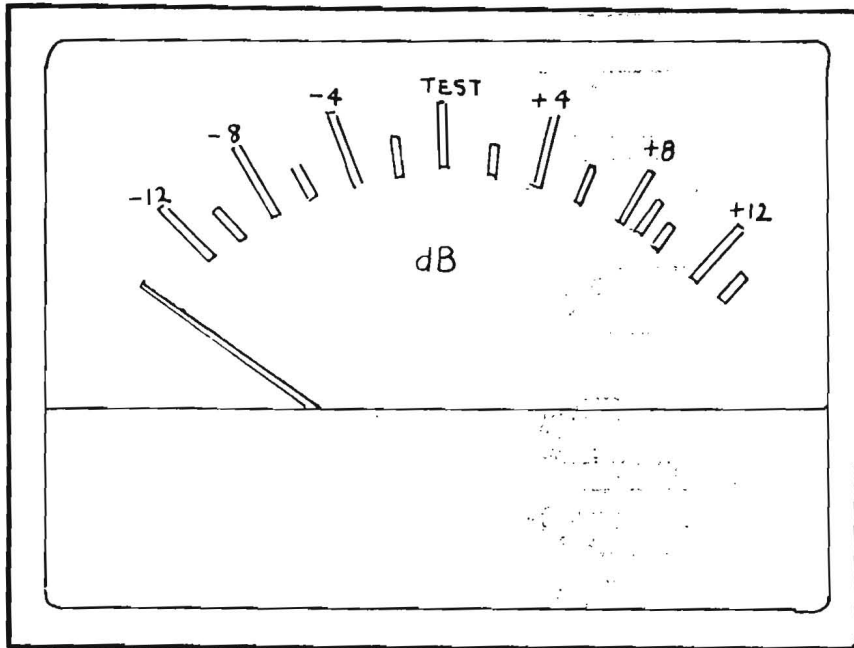
IC5-6 ARE CA 3086



EX10374 CIRCUIT DIAGRAM - BA374  
P.P.M. METER DRIVE AMPLIFIER BOARD

BA374 Iss 1 1981

EX 10374



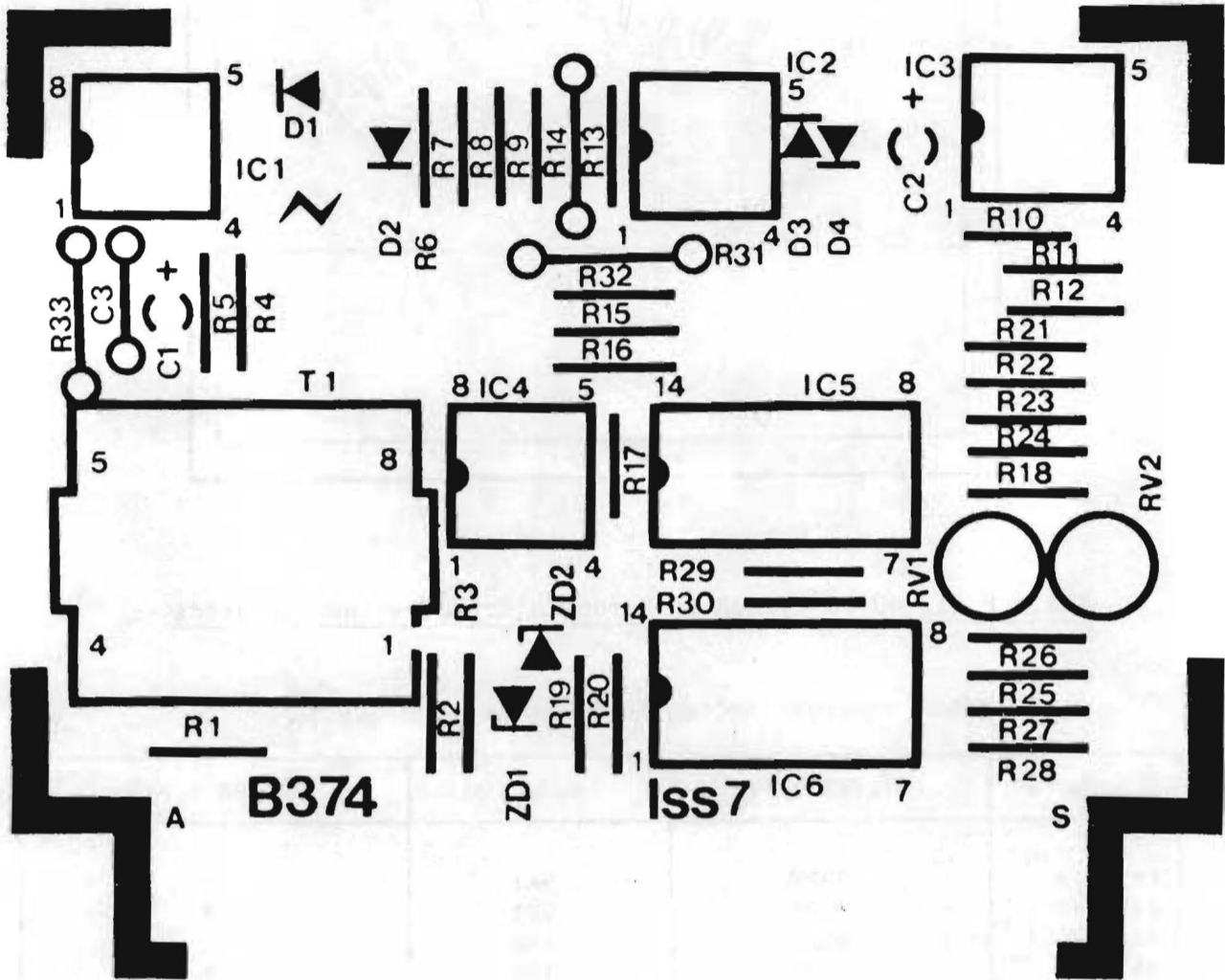
Scale E -12 dB to +12 dB to European Broadcasting standards

BA374 VERSIONS ACCORDING TO METER TYPE/SCALE

PCB No	METER TYPE	R2 VALUE	METER SCALE
BA374/A	R32F	9K1	B
BA374/B	R22F	9K1	B
BA374/C	R32F	16K	A
BA374/D	R22F	16K	A
BA374/E	R32F	9K1	E
BA374/F	R22F	9K1	E
BA374/G	R22F	20K	B
BA374/H	D14	9K1	B
BA374/J	R22F	56K	A
BA374/K	R22F	20K	E
BA374/L	D14	9K1	A
BA374/M	D14	20K	E
BA374/S	Special Order	9K1	To MZ20545 Iss 2
BA374/T	Special Order	9K1	To MZ20916 Iss 1
BA374/X	Special Order	9K1	Special Order

B  
A  
3  
7  
4

BA374 COMPONENT LAYOUT



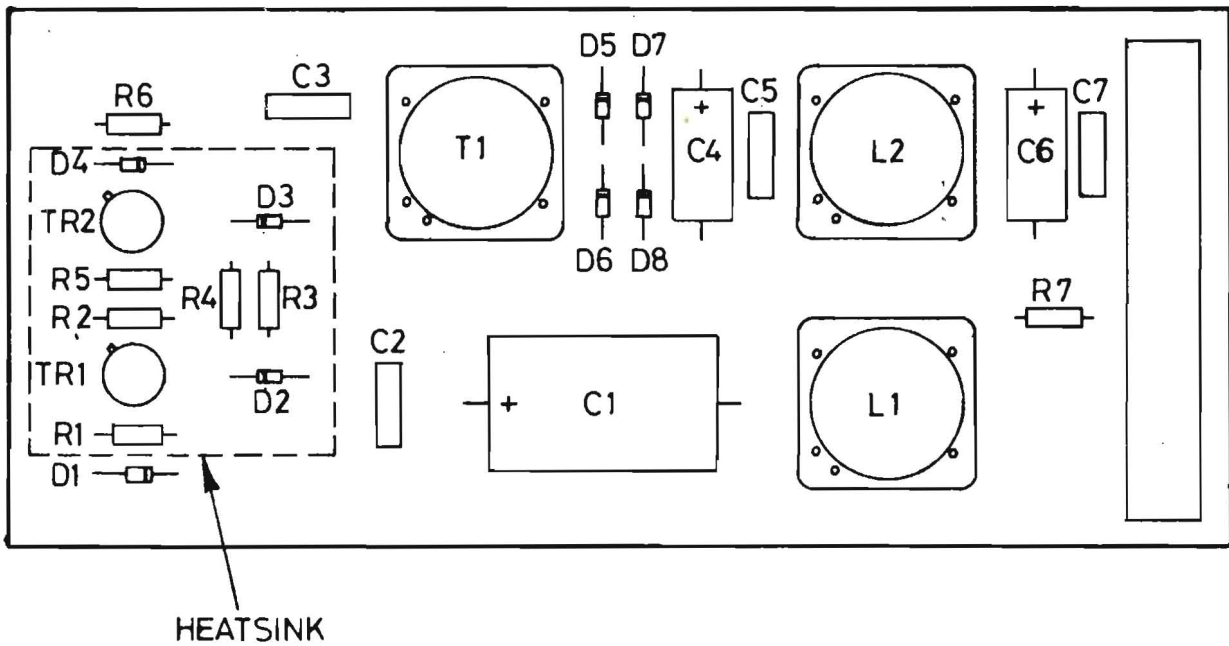
Note: R33 and C3 values adjusted on test  
 R31 Meter sensitivity - adjusted on test  
 R10 Attack time (A.O.T.)  
 R11 Fallback time (A.O.T.)

BA 374

PARTS LIST BA398

Ref	Description	Part No.
R1,6	Resistor TR4 5% 10K ohms	RA010K0
R2,5	Resistor " " 10 ohms	RA010R0
R3,4	Resistor " " 13K ohms	RA013K0
R7	Resistor " " 15K ohms	RA015K0
C1	Capacitor Electro. 1000 $\mu$ F, 25V	CA71004
C2,3,5,7	Capacitor C280AE/P47K 47 pF	CA20470
C4,6	Capacitor Electro. 22 $\mu$ F, 63V	CA60221
D1-8	Diode BAX 16	DD10001
TR1,2	Transistor BC441-6	TR16201
	Transistor pad, large	SA10200
L1,L2	Inductor T0139	IN10303
T1	Transformer T0140	TF16000
	Printed Circuit Board BA398	EV10398

COMPONENT LAYOUT



PRINTED CIRCUIT BOARD ASSEMBLY BA406

## 1. GENERAL

The BA406 pcb is a plug-in unit for incorporation in a larger motherboard. The pcb contains two separate voltage follower circuits.

## 2. CIRCUIT DESCRIPTION (Fig. 1)

Input A is applied to the base of TR1, which obtains its base bias from the potential dividers R1, R2. TR2 and TR3 form a constant current system for the voltage following output A on pin 2.

The second channel (B) is similar to channel A, except that the base bias resistors for TR4 are mounted externally to the pcb to suit circuit requirements. Channels A and B are both included in BA406; channel B is omitted in BA406/H.

## 3. PARTS LIST

Reference	Description	Part No.
C1, C2*	Capacitor 7.5 p	CA10070
C3	Capacitor 0.01 $\mu$	CA20100
R1	Resistor 47K	RA047K0
R2	Resistor 1M	RA001M0
R3, 7*	Resistor 33K	RA033K0
R4, 8*	Resistor 100	RA100R0
R5	Resistor 1.2K	RA001K2
R6	Resistor 22K	RA022K0
TR1, 2, 4*, 5*	Transistor BC214KC	TR12402
TR3, 6*	Transistor BC184	TR16401
-	Mounting pads	SA10400
	*Omitted on BA406/H	

BA406 Issue 1  
January 1979

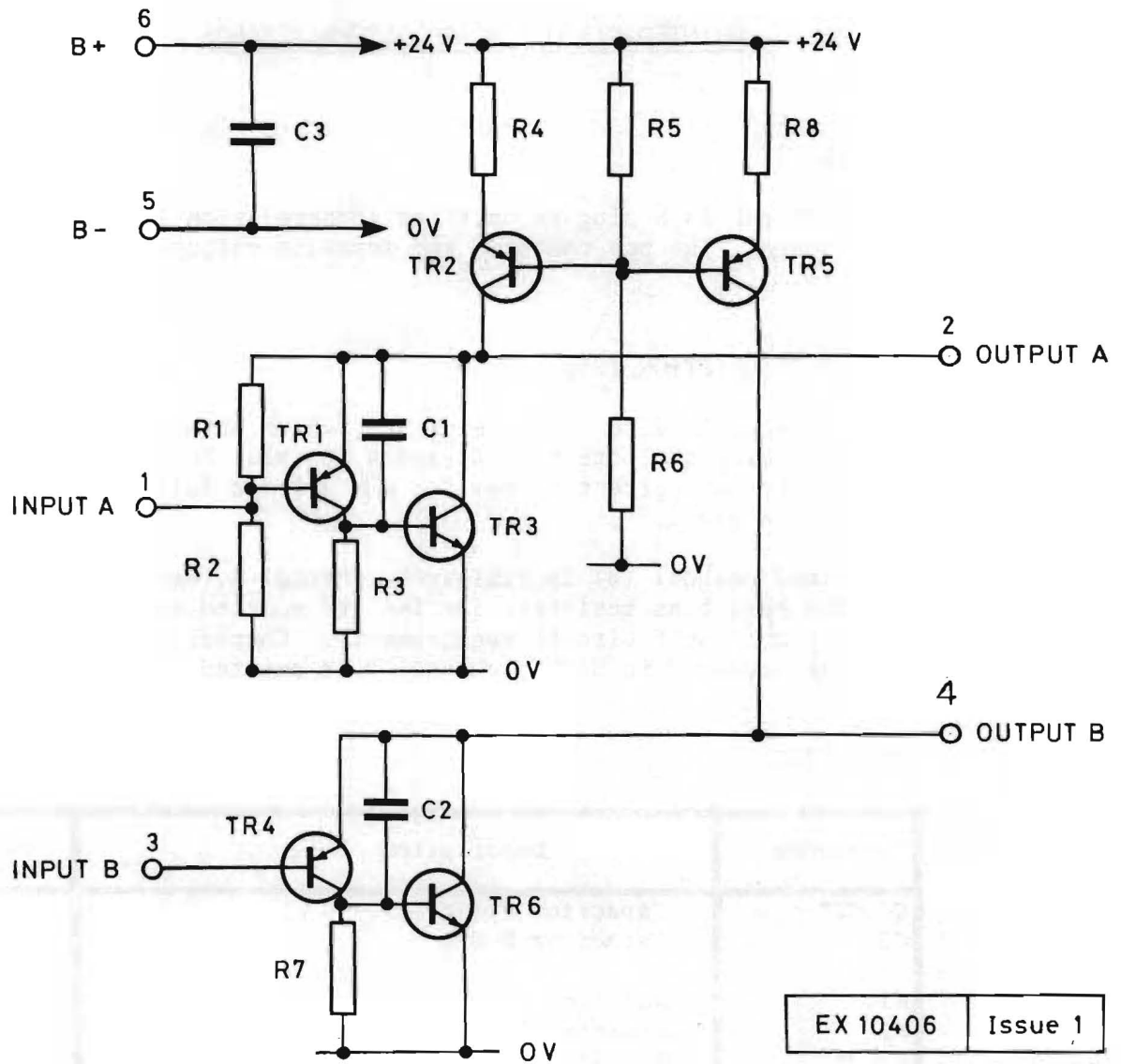


Fig. 1 Circuit Diagram BA 406

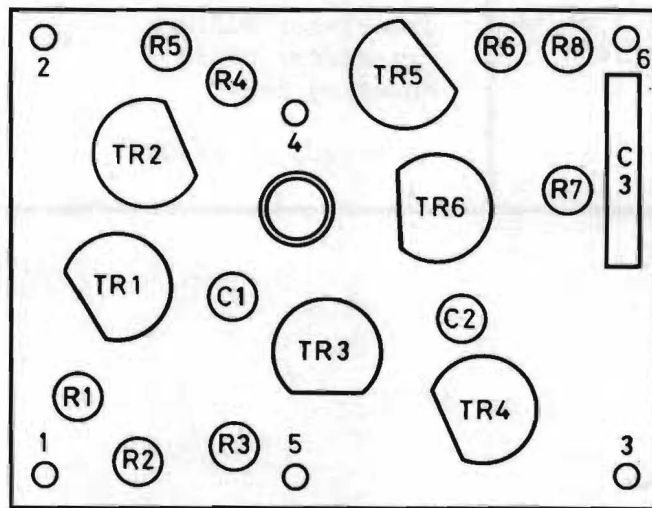
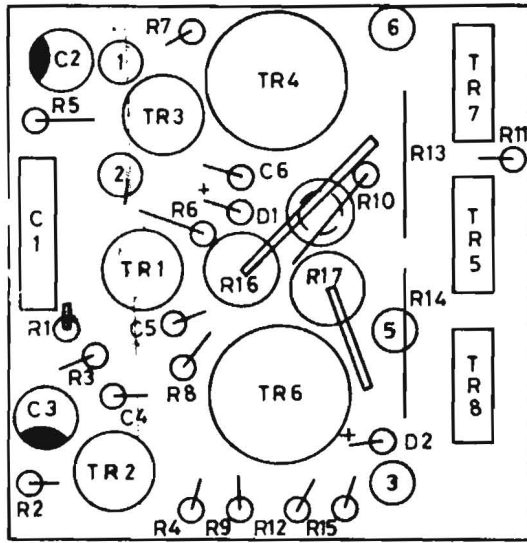


Fig. 2 Component Layout BA 406

COMPONENT LAYOUT BA441



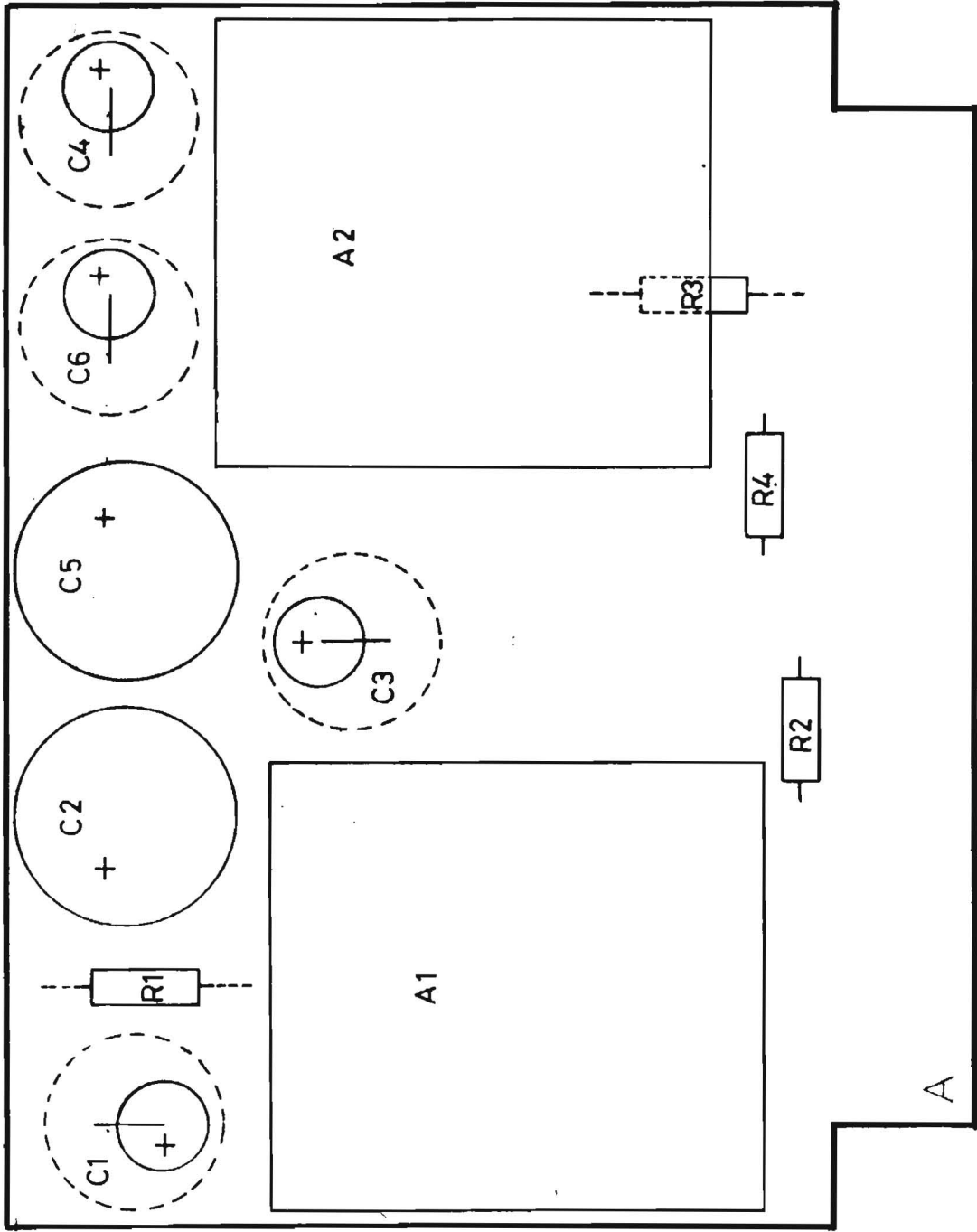
PARTS LIST BA441 SEE DRWG # EX 10441

Ref.	Description	Part No.
R1	Resistor 36K TR4 2%	R4 36K
R2	" 18K " "	R4 18K
R3	" 47K " "	R4 47K
R4	" 2K7 " "	R4 2K7
R5	" 47K " "	R4 47K
R6	" 15K " "	R4 15K
R7	" 560 " "	R4 560
R8	" 2K2 " "	R4 2K2
R9	" 560 " "	R4 560
R10	" 200 " "	R4 200
R11	" 10K " "	R4 10K
R12	" 27 " "	R4 27
R13	" 2K4 " "	R4 2K4
R14	" 2K4 " "	R4 2K4
R15	" 200 " "	R4 220
R16	" 0.33 W.W 2.5W	WW 0.33
R17	" " " "	WW 0.33
C1	Capacitor	C0198
C2	" 10 $\mu$ 25V	C0207
C3	" 22 $\mu$ 16V	C0199
C4	" 100 p 63V	C0039
C5	" 100 p 63V	C0039
C6	" 33 p 63V Suflex HS	C0037
D1	Diode AA 144	T0046
D2	" BAX 13	T0044
D3	" AA 144	T0076
TR1	Transistor BC214 KC	T0095
TR2	" BC184C	T0043
TR3	" BC184C	T0043
TR4	" BC461-6	T0062
TR5	" MJE 521	T0135
TR6	" BC441-6	T0052
TR7	" MJE 521	T0135
TR8	" MJE 371	T0134
	Connector	C0379

B  
A  
4  
4  
1

BA489 COMPONENT LAYOUT

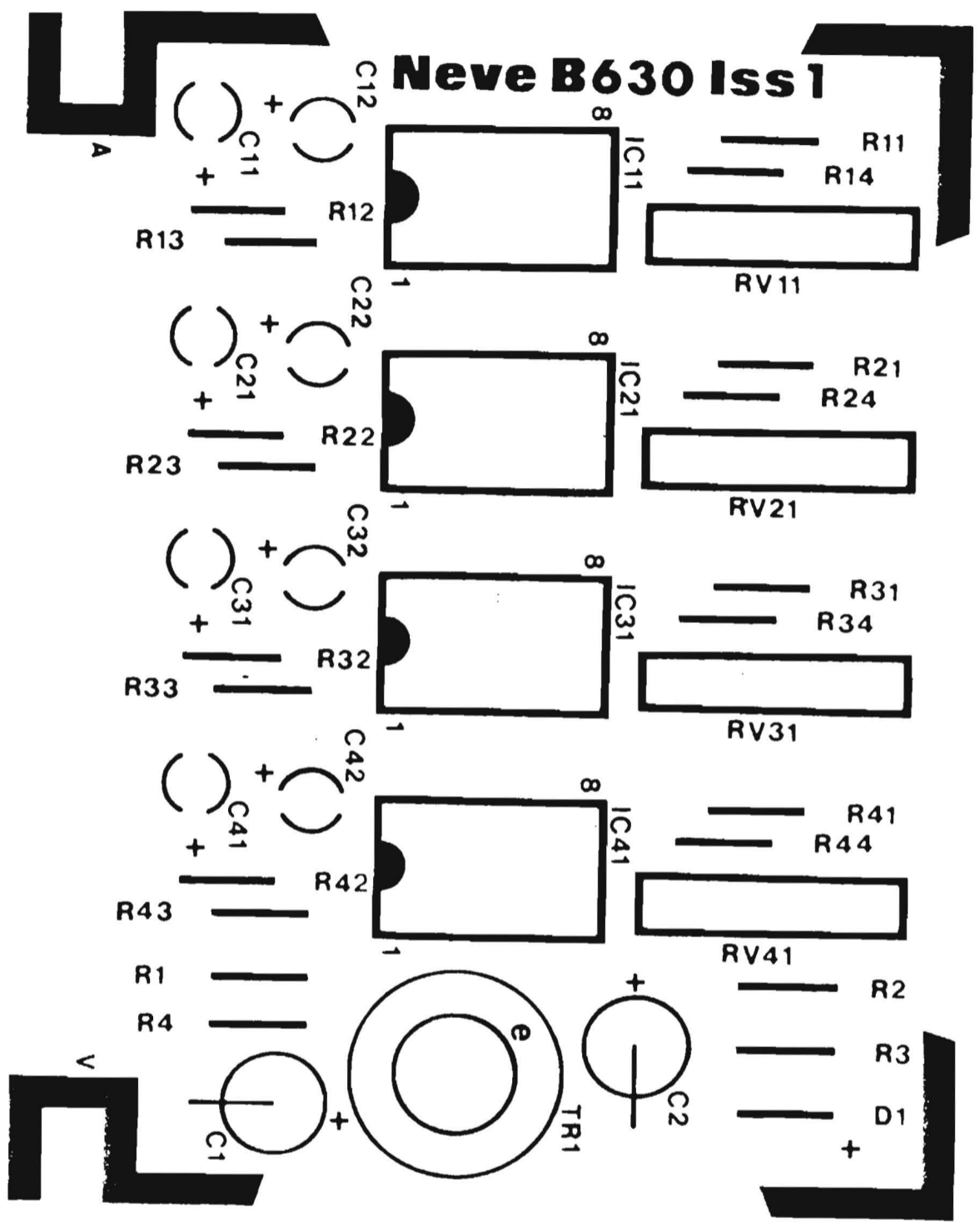
SEE DRUG # EX 10489














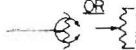

















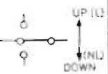




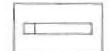



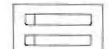
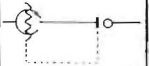










B 630

COMPONENT LAYOUT  
SEE DRWG #  
EX 10630



B  
6  
3  
0

	MULTIPIN CONNECTOR		MICROPHONE		PUSHBUTTON ILLUMINATED, CHANGEOVER		POTENTIOMETER, ROTARY
	SOLDER TAG TERMINATION		LOUDSPEAKER		PUSHBUTTON NON-ILLUMINATED, MECH. ACTIVATED COLOUR CHANGE		POTENTIOMETER, ROTARY STEPPED
	TUCHEL CONNECTOR WITH OPEN CONTACTS		HEADPHONES		ROTARY SWITCH (SHOWN IN ANTI-CLOCKWISE POSITION CONTACT FUNCTION TO BE DESIGNATED)		POTENTIOMETER, PAN POT
	TUCHEL CONNECTOR WITH JUMP CONTACTS		P.C. BOARD (TYPE TO BE STATED)		RELAY CONTACTS		POTENTIOMETER, QUAD PAN POT
	XLR CONNECTOR INPUT NORMALLY XLR 3-31		CHOKE		RELAY COIL		FADER, CALIBRATED, LINEAR, (LEVEL IN HAND TO BE STATED)
	XLR CONNECTOR OUTPUT NORMALLY XLR 3-32		SIGNAL LAMP (VOLTAGE & COLOUR TO BE STATED)		SWITCHER CROSSPOINT		FADER, CALIBRATED, WITH END STOP SWITCH (MAX. OF 3)
	JACK SOCKET, SINGLE		KEYSWITCH, SINGLE (FRONT PANEL FUNCTION DESIGNATED BY ARROW, MECHANICAL ACTION TO BE STATED)		LIMITER		MODULE GENERAL SYMBOL (FUNCTION & TYPE NUMBER TO BE STATED)
	JACK SOCKET, HALF NORMALISED PAIR (SEND ON UPPER ROW, RETURN ON LOWER ROW)		KEYSWITCH, TWO WAY (NOTES AS ABOVE)		METER (TYPE TO BE STATED)		MODULE WITH FRONT PANEL MOUNTING COMPONENT
	JACK SOCKET, SINGLE NORMALISED PAIR		TOGGLE SWITCH		METER, LIGHT BEAM, MONO		MODULE WITH EXTERNAL MOUNTING COMPONENT
	JACK SOCKET, DOUBLE NORMALISED PAIR		PUSHBUTTON, NON-ILLUMINATED		METER, LIGHT BEAM, STEREO		POT/PUSHBUTTON COMBINED INTO ONE COMPONENT (i.e. CENTRALAB)
	TRANSFORMER		PUSHBUTTON, NON-ILLUMINATED WITH LAMP INDICATION, (COLOUR TO BE STATED)		TERMINATION RESISTOR (VALUE TO BE STATED)		
					ATTENUATION RESISTOR (ATTEN. IN dB TO BE STATED)		
	HYBRID TRANSFORMER		PUSHBUTTON, ILLUMINATED		POTENTIOMETER, ROTARY PRE-SET		

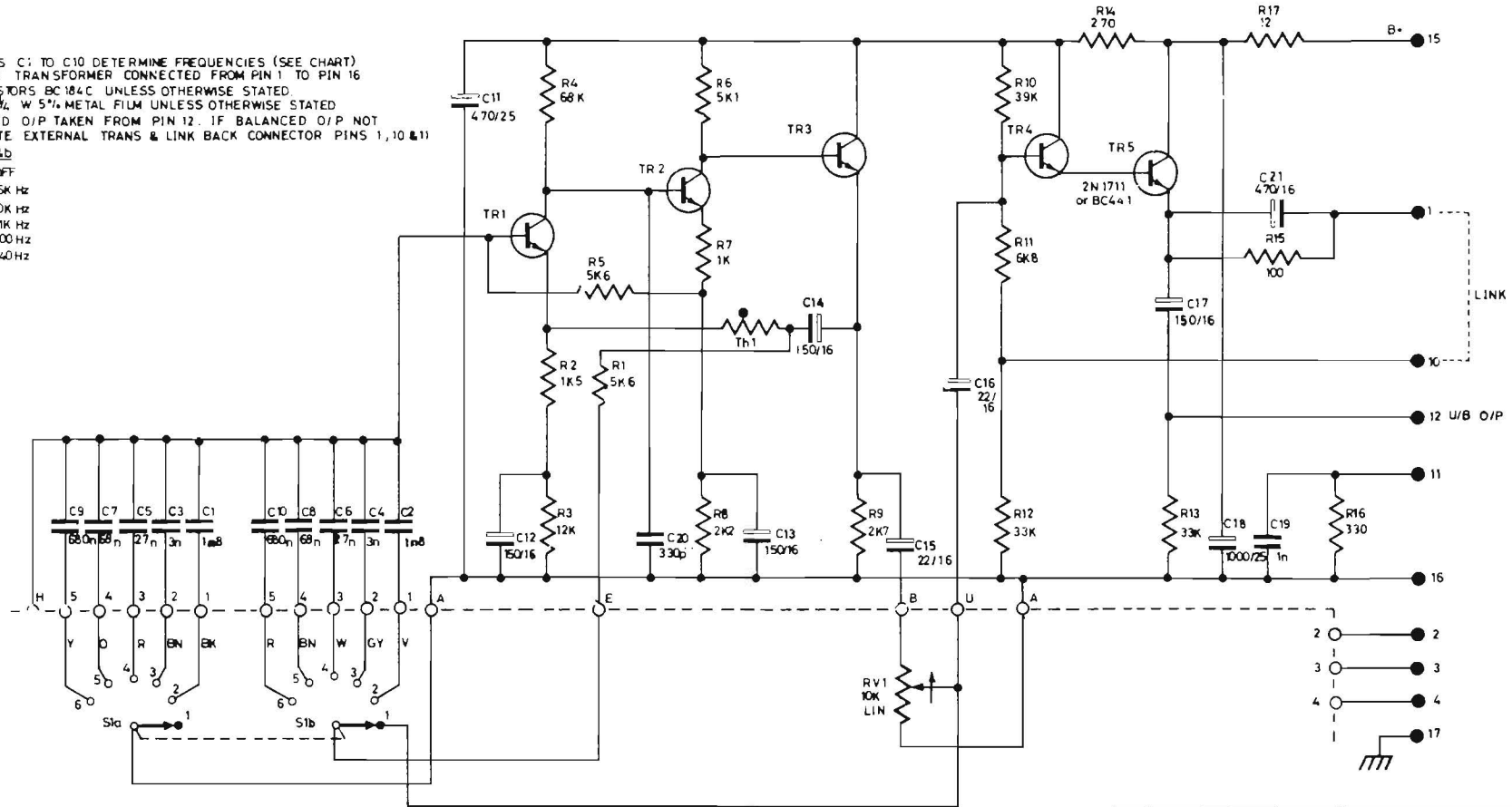
G	4 REDRAWN	ISSUE	FIRST USED ON	MATERIAL	TOL. UNLESS OTHERWISE STATED	
	9 OCT '78	DATE	DRN.	FINISH	LINEAR	ANGULAR HOLES
	CHANGE NOTE NO	TRACED ADL	TITLE	BLOCK DIAGRAM SYMBOLS		
	CHECKED	CHECKED	Neve Electronics International Ltd.		DRG No. B 10001	SCALE
	PJV	CHECKED	1978		© A2	MY 45-422 R

EO 10027

Drawing No. **EO 10027**

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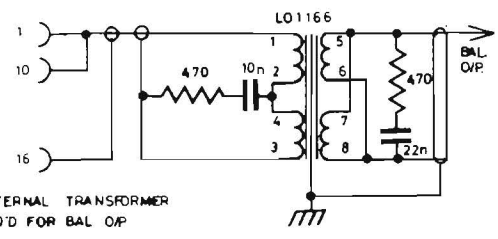
REMARKS: C1 TO C10 DETERMINE FREQUENCIES (SEE CHART)  
 BAL. O/P TRANSFORMER CONNECTED FROM PIN 1 TO PIN 16  
 TRANSISTORS BC184C UNLESS OTHERWISE STATED  
 RESISTORS 1/2 W 5% METAL FILM UNLESS OTHERWISE STATED  
 UNBALANCED O/P TAKEN FROM PIN 12. IF BALANCED O/P NOT  
 REQUIRED, DELETE EXTERNAL TRANS & LINK BACK CONNECTOR PINS 1, 10 & 11  
 S1a & b  
 S1 = OFF  
 2 = 15K Hz  
 3 = 10K Hz  
 4 = 1K Hz  
 5 = 400 Hz  
 6 = 40 Hz



C

D

E



EXTERNAL TRANSFORMER  
 REQ'D FOR BAL. O/P

2	1	ISSUE	FIRST USED ON	MATL.	5 20000 6-12-76	3 11330 19-9-75	4 11263 24-9-75
21-4-75	14-3-75	DATE	DRN. TJS	FINISH	TOL UNLESS OTHERWISE STATED		
11172		CHANGE NOTE NO.	TRACED JDC	TITLE 3515 OSCILLATOR (INC BA446 MOTHERBOARD)	LINEAR	ANGULAR	HOLES
1/BB		CHECKED	CHECKED		3rd ANGLE PRJ.	DIMS. IN	SCALE
					DRG. No. <b>EO 10027</b>		
					1975		© A3

EO 10027

W6-5 ONC-54 FOR

MT 54668R

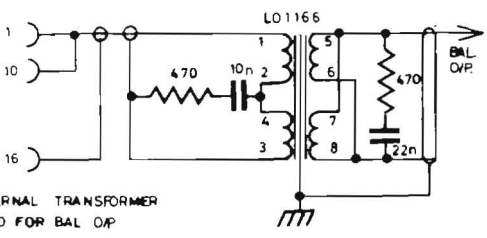
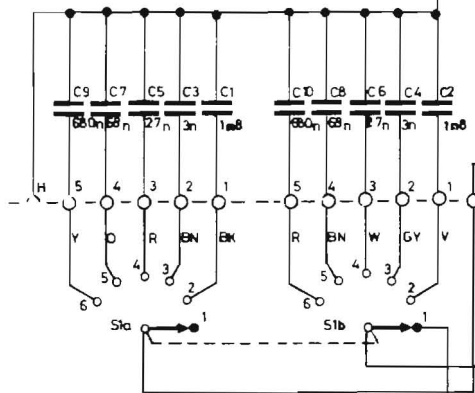
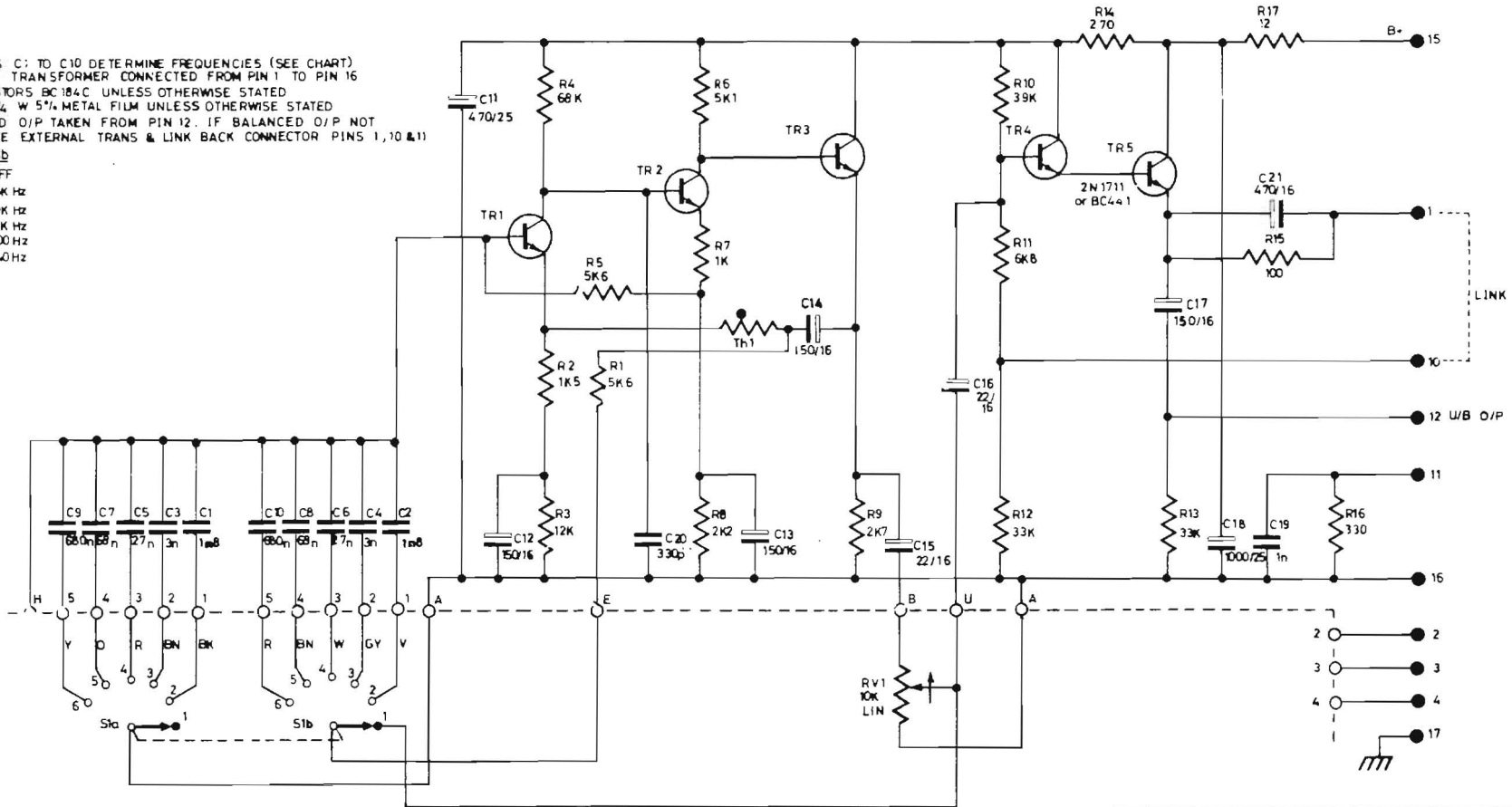
EO 10027

1 2 3 4 5 6

DRG No. 10027

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COMPONENTS C1 TO C10 DETERMINE FREQUENCIES (SEE CHART)  
 O/P TRANSFORMER CONNECTED FROM PIN 1 TO PIN 16  
 TRANSISTORS BC184C UNLESS OTHERWISE STATED  
 RESISTORS 1/4 W 5% METAL FILM UNLESS OTHERWISE STATED  
 BALANCED O/P TAKEN FROM PIN 12. IF BALANCED O/P NOT  
 REQUIRED DELETE EXTERNAL TRANS & LINK BACK CONNECTOR PINS 1, 10 & 11  
 S1a & b  
 S1 = OFF  
 S2 = 15K Hz  
 S3 = 10K Hz  
 S4 = 1K Hz  
 S5 = 400 Hz  
 S6 = 40 Hz



2	1	ISSUE	FIRST USED ON	MATL.
21-4-75	14-3-75	DATE	DRN. TJS	FINISH
11172		CHANGE NOTE NO	TRACED JDC	TITLE 3515 OSCILLATOR (INC BA446 MOTHERBOARD)
JBB		CHECKED		

5	20000	6-12-76		
3	11330	19-9-75	4	11263/12 24-9-75

TOL UNLESS OTHERWISE STATED	
LINEAR	ANGULAR HOLES
±	+0.13 -0
3rd ANGLE PRJ	DIMS. IN SCALE

DRG No. EO 10027  
 1975 © A3

NY 56668

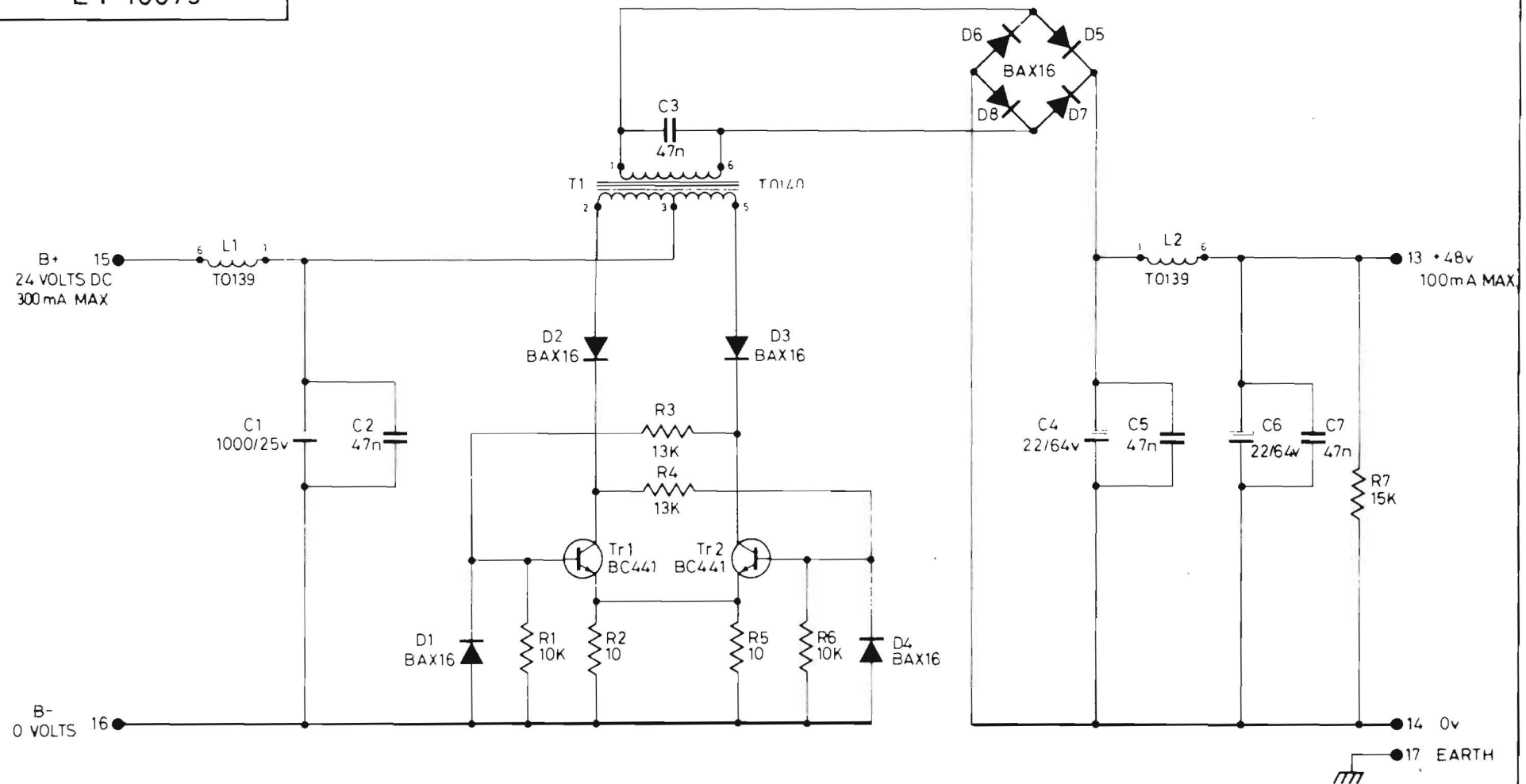
10027 - 070

W 5 ON 4 5 - 2 5 - 1 0 0 2 7

ET 10075

DRAWING NO  
**ET 10075**

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**NOTE**  
1 B+ AND B- LEADS SHOULD BE RETURNED INDIVIDUALLY TO THE POWER SUPPLY'S DISTRIBUTION POINT AND NOT BE LOOMED WITH ANY LOW SIGNAL LEVEL AUDIO WIRING

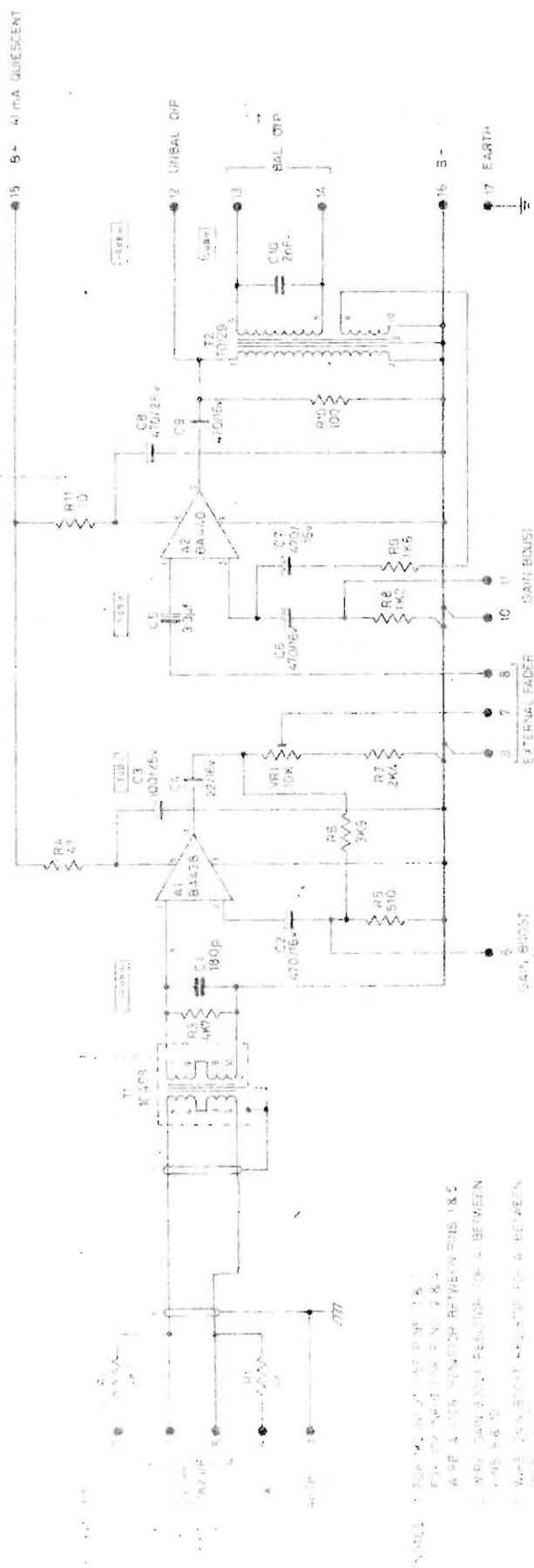
	1	ISSUE	FIRST USED ON	MAT	TOL UNLESS OTHERWISE STATED		
	17 9 74	DATE	DRN. DJS	FINISH	LINEAR	ANGULAR	HOLES
		CHANGE NOTE NO	TRACED CK		3RD ANGLE PROJ	DIMS IN	SCALE
		CHECKED			DRG NO		ET 10075
		CHECKED	Rupert Neve & Company Ltd.		1974	© A3	

5200-4M

TAWING NO

EN10051

EN 100 51



- 1. WIRE 40 PIN MODULE TO PIN 1 & 2 FOR 100% COMPATIBILITY WITH 100% WIRE 40 PIN MODULES BETWEEN RNS 1 & 2
- 2. WIRE 40 PIN MODULE TO PIN 1 & 2 BETWEEN RNS 1 & 2
- 3. WIRE 40 PIN MODULE TO PIN 1 & 2 BETWEEN RNS 1 & 2
- 4. FOR 100% COMPATIBILITY WITH 100% WIRE 40 PIN MODULES BETWEEN RNS 1 & 2
- 5. FOR 100% COMPATIBILITY WITH 100% WIRE 40 PIN MODULES BETWEEN RNS 1 & 2
- 6. FOR 100% COMPATIBILITY WITH 100% WIRE 40 PIN MODULES BETWEEN RNS 1 & 2

5. FOR OVERALL MODULE GAIN OF > 40DB THE GAIN BOOST SHOULD BE EVENLY DISTRIBUTED BETWEEN A1 & A2.

6. FOR GAIN BOOSTING DETAILS REFER TO BLOCK DIAGRAM.

FROZEN GOLD LABEL

PROVEN GOLD LABEL

7	5	2
24-10-77	24-10-77	24-10-77
50086	50086	50086

50086	50086	50086
24-10-77	24-10-77	24-10-77
50086	50086	50086

50086	50086	50086
24-10-77	24-10-77	24-10-77
50086	50086	50086

50086	50086	50086
24-10-77	24-10-77	24-10-77
50086	50086	50086

50086	50086	50086
24-10-77	24-10-77	24-10-77
50086	50086	50086

50086	50086	50086
24-10-77	24-10-77	24-10-77
50086	50086	50086

EN10051  
1974

M Robert Nave & Company Ltd

40 PIN AUDIO MODULE

40 PIN AUDIO MODULE

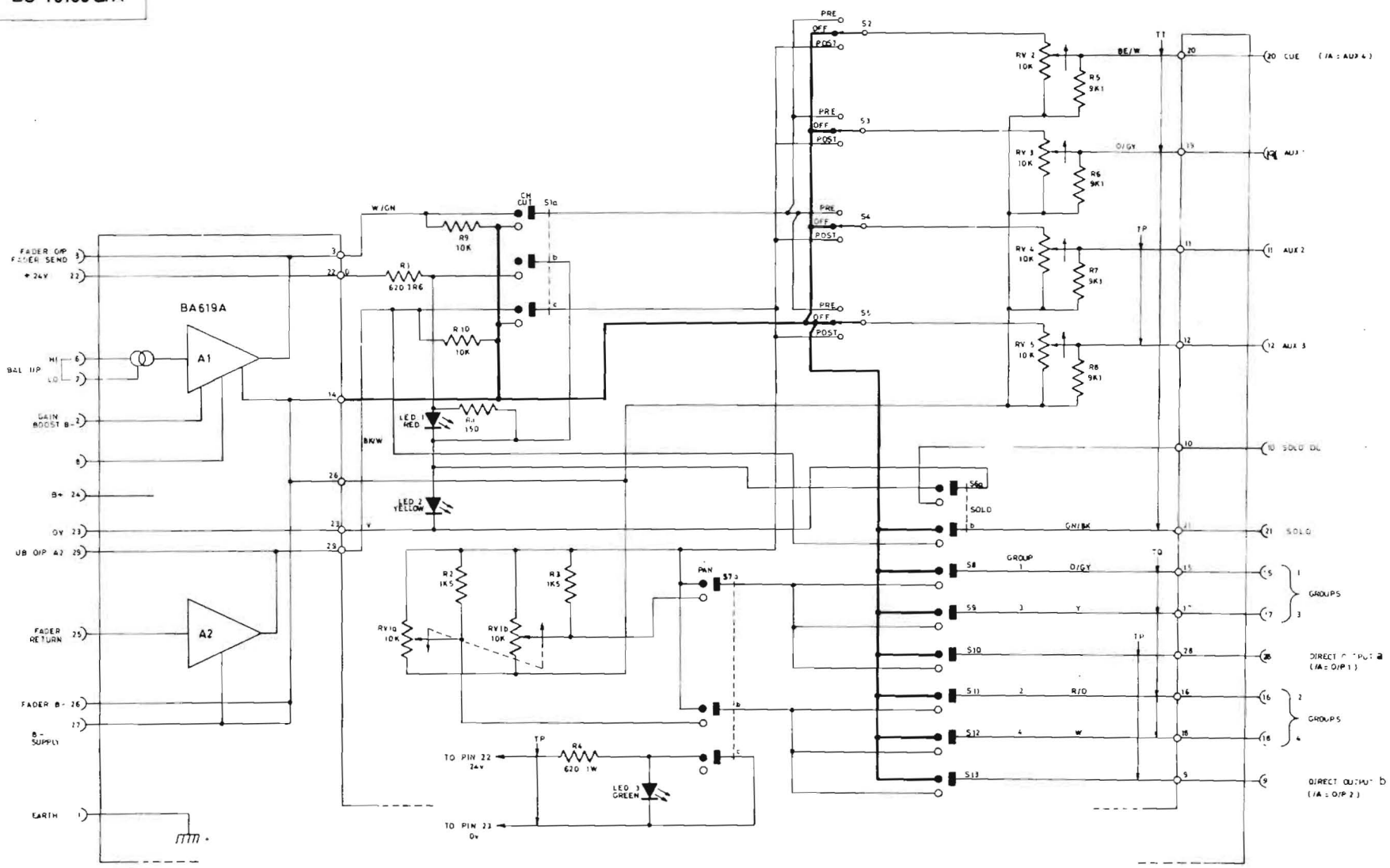
40 PIN AUDIO MODULE

40 PIN AUDIO MODULE

40 PIN AUDIO MODULE

ES 10189 4/A

ES 10189 & /A



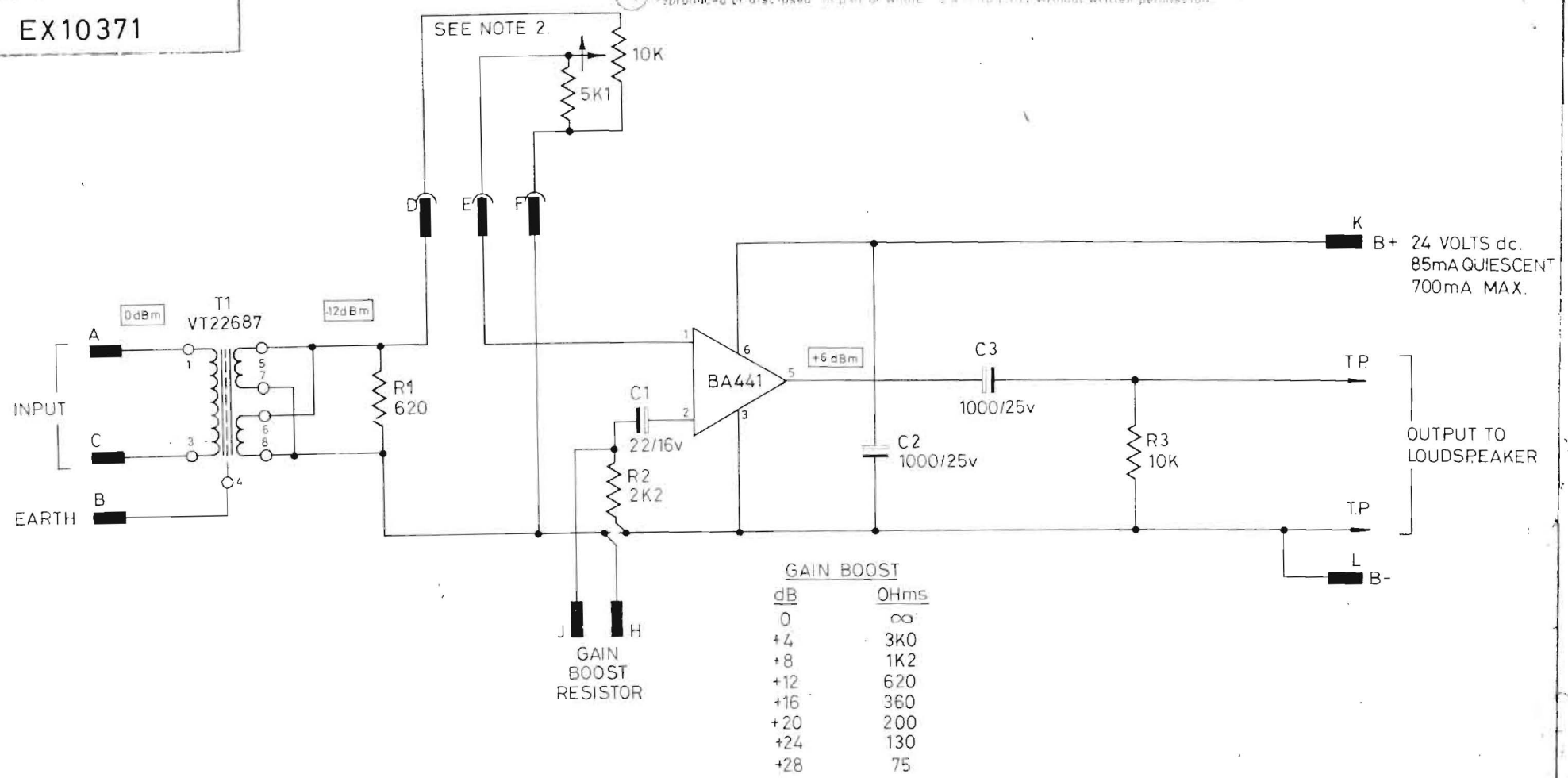
6	5	4	3	2	1	ISSUE	FIRST USED ON A 4236	MATL	DIMENSIONS UNLESS OTHERWISE STATED	
13-6-78	20-9-77	16-5-77	20-4-77	5-4-77	7-2-77	DATE	DRN A.J.G.	FINISH	LINEAR	ANGULAR HOLES
DIRECT O/P B WAS 1. & WAS 2 JA ADDED		CN50030	PIN 22 HCS 21 BMS PIN WAS 508 R1: TRM ADDED		B- SUPPLY PIN 28 HCS D.O.I		CHANGE NOTE NO	TRACED A.L.Q.	TITLE 33726 & 33726/A CHANNEL SWITCHING UNIT	
FCB	DIL.	10K	FE2	FCB	CHECKED	Rupert Neve & Company Ltd.			DRG No ES 10189 & /A	
									1977	© A2

4/A 08-0-5M

371

DRAWING NO  
EX10371

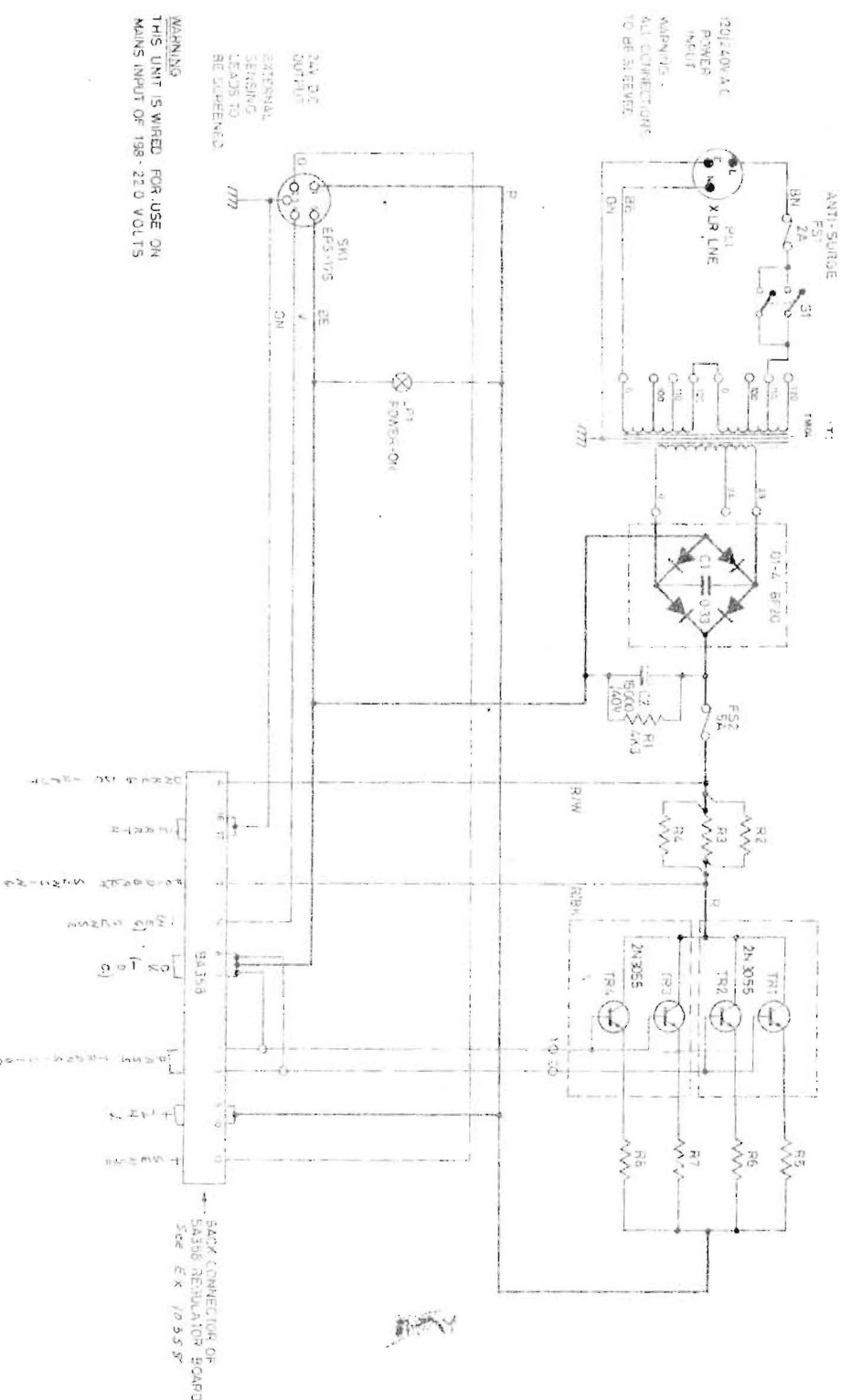
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- NOTES.
- 1 B+ & B- TO BE RETURNED INDEPENDENTLY TO P.S.U DISTRIBUTION POINT
  - 2 STRAP D TO E IF NO EXT FADER OR POT IS REQUIRED

1	ISSUE	FIRST USED ON	ON MAT	TOL UNLESS OTHERWISE STATED	
	1.7.74	DATE	DRN. DJS	FINISH	LINEAR ANGULAR HOLES
CHANGE NOTE NO	TRACED	SK	TITLE	DRG. NO	DIMS IN SCALE
	CHECKED		BA371 CUE SPEAKER AMPLIFIER CIRCUIT DIAGRAM.	EX10371	
CHECKED			Rupert Neve & Company Ltd.	1974.	© A3



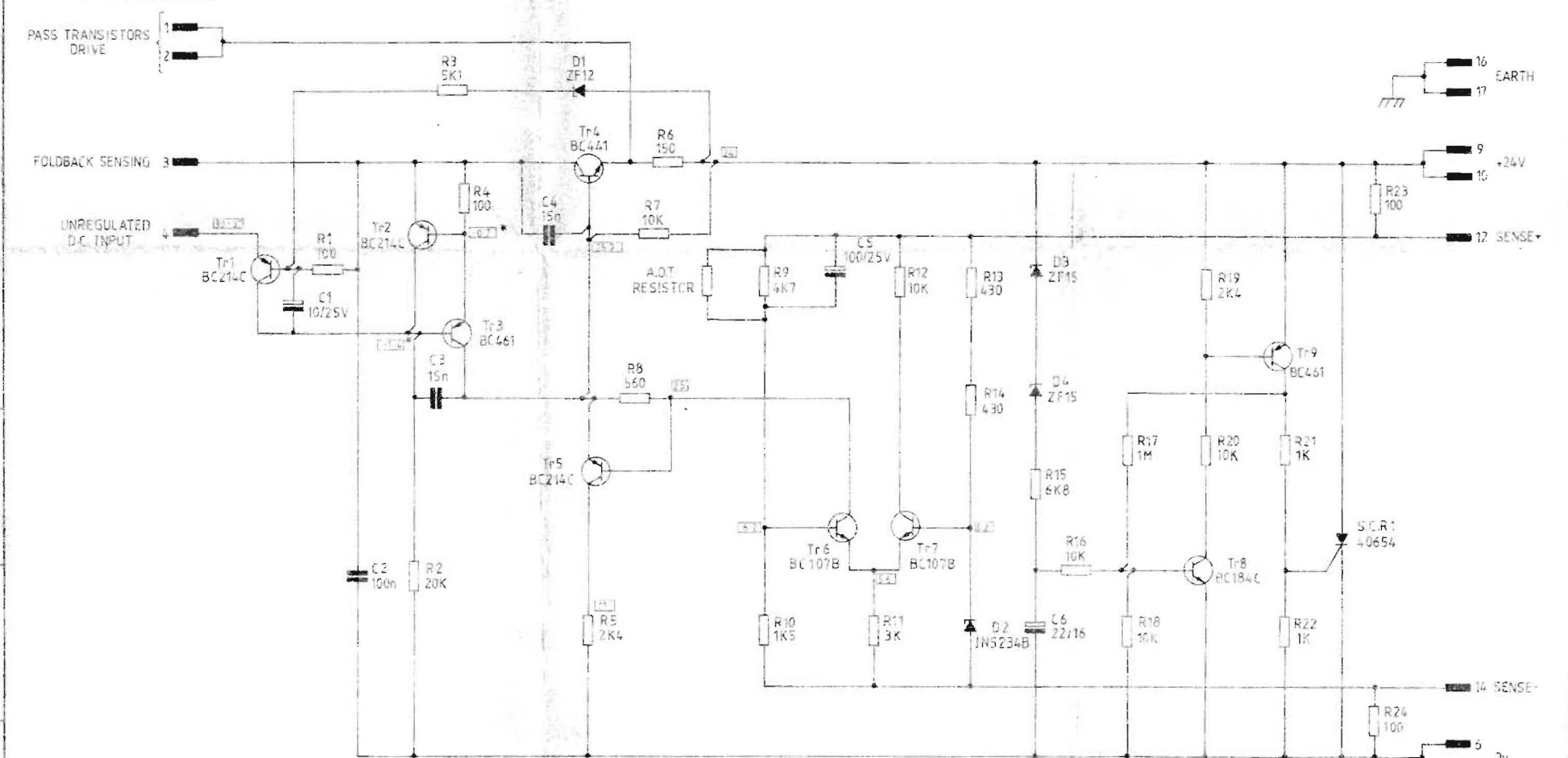


WARNING  
THIS UNIT IS WIRED FOR USE ON  
MAINS INPUT OF 198-220 VOLTS

- R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100, R101, R102, R103, R104, R105, R106, R107, R108, R109, R110, R111, R112, R113, R114, R115, R116, R117, R118, R119, R120, R121, R122, R123, R124, R125, R126, R127, R128, R129, R130, R131, R132, R133, R134, R135, R136, R137, R138, R139, R140, R141, R142, R143, R144, R145, R146, R147, R148, R149, R150, R151, R152, R153, R154, R155, R156, R157, R158, R159, R160, R161, R162, R163, R164, R165, R166, R167, R168, R169, R170, R171, R172, R173, R174, R175, R176, R177, R178, R179, R180, R181, R182, R183, R184, R185, 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DRAWING No. **EX10358**  
*SEE ALSO:*  
 ET 10087  
 24 VOLT  
 MODULE

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ALL VOLTAGES MEASURED WRT 0-Volt EXCEPT \*  
 WHICH ARE WRT. PIN 3  
 FOR A.O.T. RESISTOR SEE TEST SPEC. E210358  
 ALL RESISTORS M.O. 2%  
 HEATSINK FITTED TO SCR1 & TR4

	2	1	ISSUE	FIRST USED ON A3012	MATL	TOL UNLESS OTHERWISE STATED	
	14-1-75	10-3-74	DATE	DRN D.J.S.	FINISH	LINEAR	ANGULAR HOLES
	100V RE-DRAWN T.C.R.		CHANGE NOTE NO	TRACED S.P.W.		DIM. IN	SCALE
			CHECKED		TITLE EA358 24 VOLT 5 AMP REGULATOR (INCORPORATED IN 3600 MODULE)	DRG No. 244 A358 ET <b>EX10358</b> 100P7	
			CHECKED	Neve Electronics International Ltd.			1981 ©A2

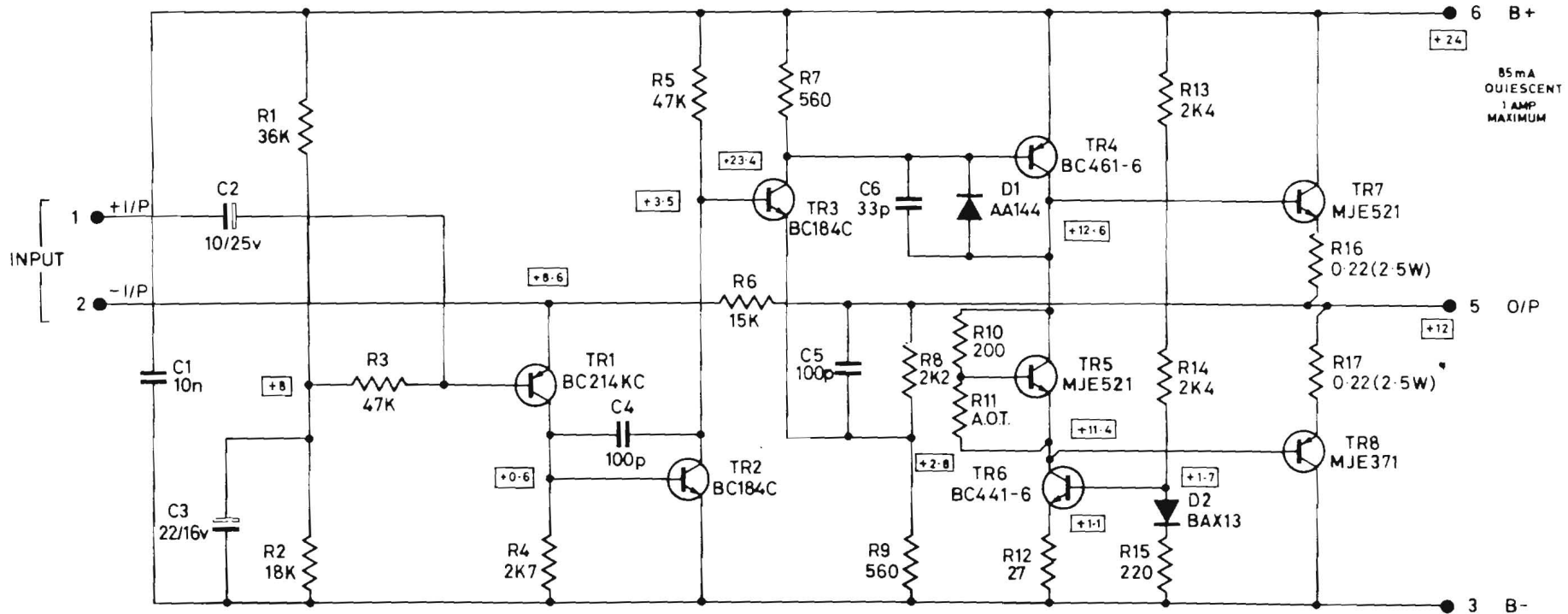
1  
0  
3  
5  
8

NY 455455 R



DRAWING N2  
EX 10441

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85mA QUIESCENT  
1 AMP MAXIMUM

NOTES.

1. ADJUST RESISTOR R11 TO GIVE QUIESCENT CURRENT OF 85mA. SEE EZ10441
2. ALL VOLTAGES MEASURED W.R.T. B-VE
3. MAXIMUM OUTPUT WATTS INTO 4ohms.
4. GAIN BOOST IDENTICAL TO BA440
5. AMPLIFIER MAY NOT BE OPERATED WITHOUT MECHANICAL HEAT SINK ASSEMBLY.

1	ISSUE	FIRST USED ON	MAT'L	TOL. UNLESS OTHERWISE STATED	
	DATE	DRN. D.J.S.	FINISH	LINEAR	ANGULAR HOLES
	CHANGE NOTE NO	TRACED C.K.	TITLE	DRG ANGLE PER DIMS IN SCALE	
	CHECKED		BA441 LARGE SIGNAL AMPLIFIER	DRG. NO	EX 10441
	CHECKED		Rupert Neve & Company Ltd.	1974.	© A3

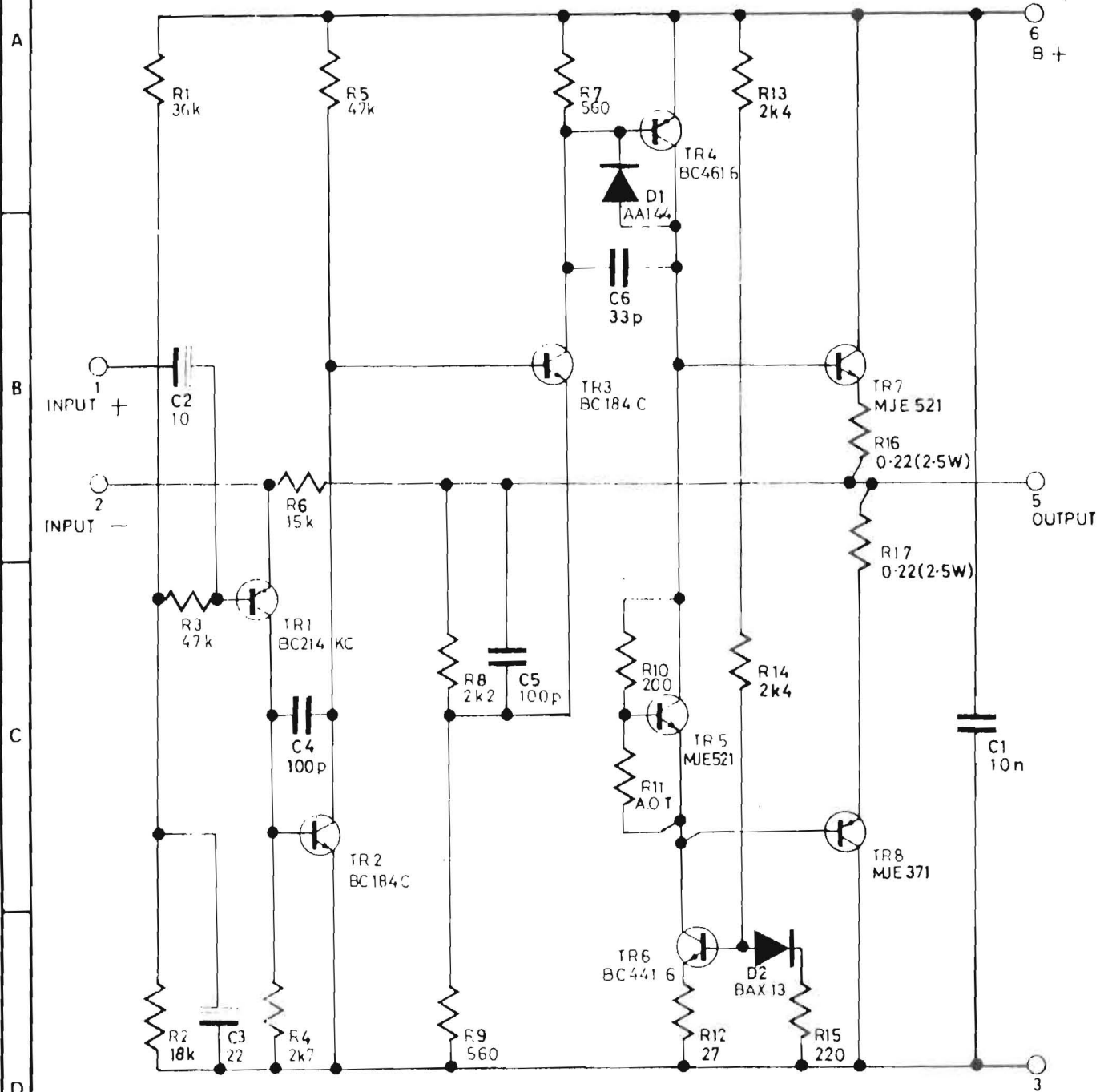
77  
X  
10441

10441 X 11

EX 10441



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- NOTES: 1. ADJUST RESISTOR R11 TO GIVE QUIESCENT CURRENT OF 85mA. SEE EZ10441  
 2. ALL VOLTAGES MEASURED WITH RESPECT TO B-  
 3. MAXIMUM OUTPUT WATTS INTO 4 OHMS  
 4. GAIN BOOST IDENTICAL TO BA 440  
 5. AMPLIFIER SHOULD NOT BE OPERATED WITHOUT MECHANICAL HEAT SINK ASSY.

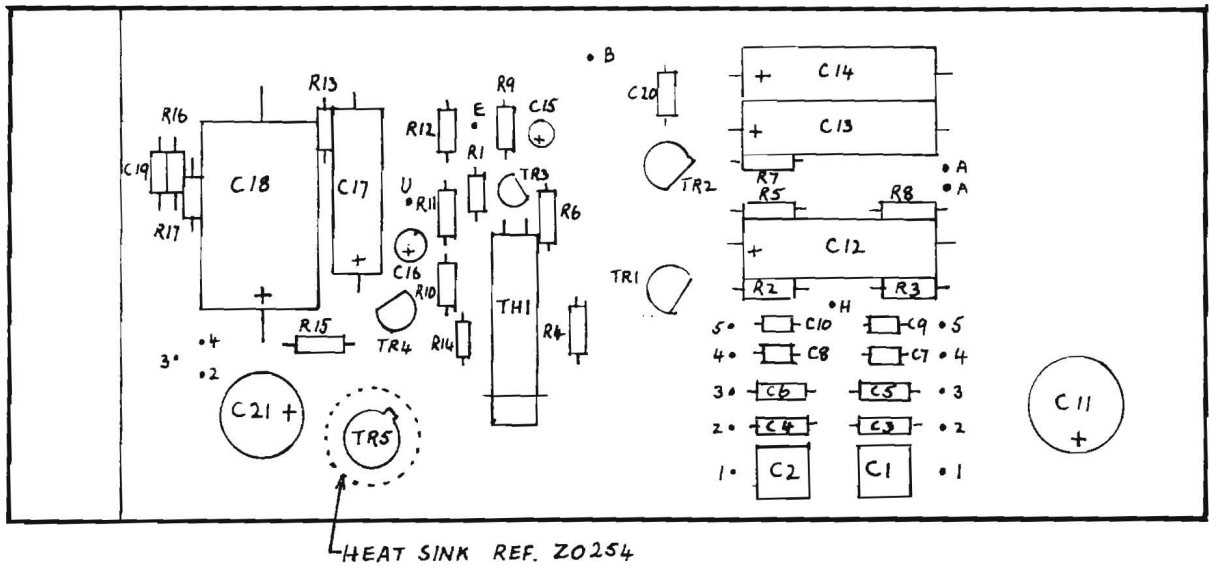
RE DRAWN FOR THB BY CM	1	ISSUED	FIRST USED ON		MATERIAL	TOL UNLESS OTHERWISE STATED		
			3411			LINEAR	ANGULAR	HOLES
3 MAY 76	9 MAY 74	DATE	DRN	DJS	FINISH	3RD ANGLE PRJ	DIMS IN	SCALE
		CHANGE NOTE N°	TRACED	CK	TITLE	DRG NO	EX 10441	
			CHECKED		PCB LARGE SIGNAL AMPLIFIER BA 441			

EX 10441

# BA 446 COMPONENT LAYOUT

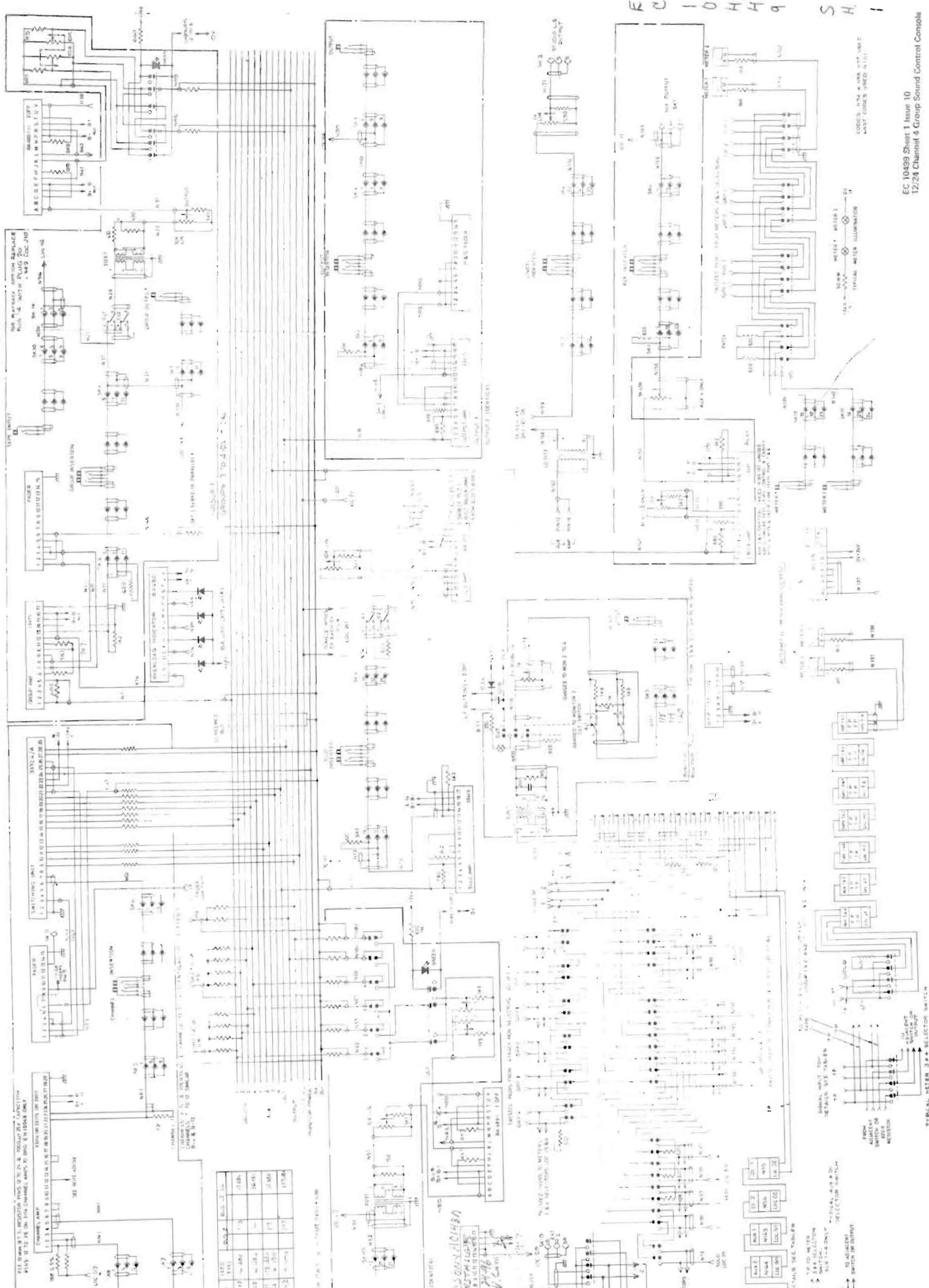
AS USED IN 3515

EW 10446/B



EW 10446/B I6 2

EW 10446/B



RELAY	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10
1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1	1	1

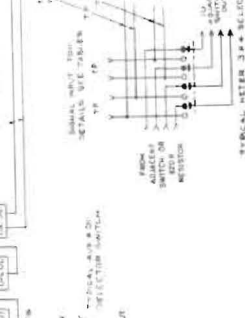
EC 10499 S.H.I

CODED IN 4 AND 11111  
LAST CODES IN 11111

METER 1  
METER 2  
METER 3  
TYPICAL METER ILLUMINATION

METER 1  
METER 2  
METER 3

METER 1  
METER 2  
METER 3

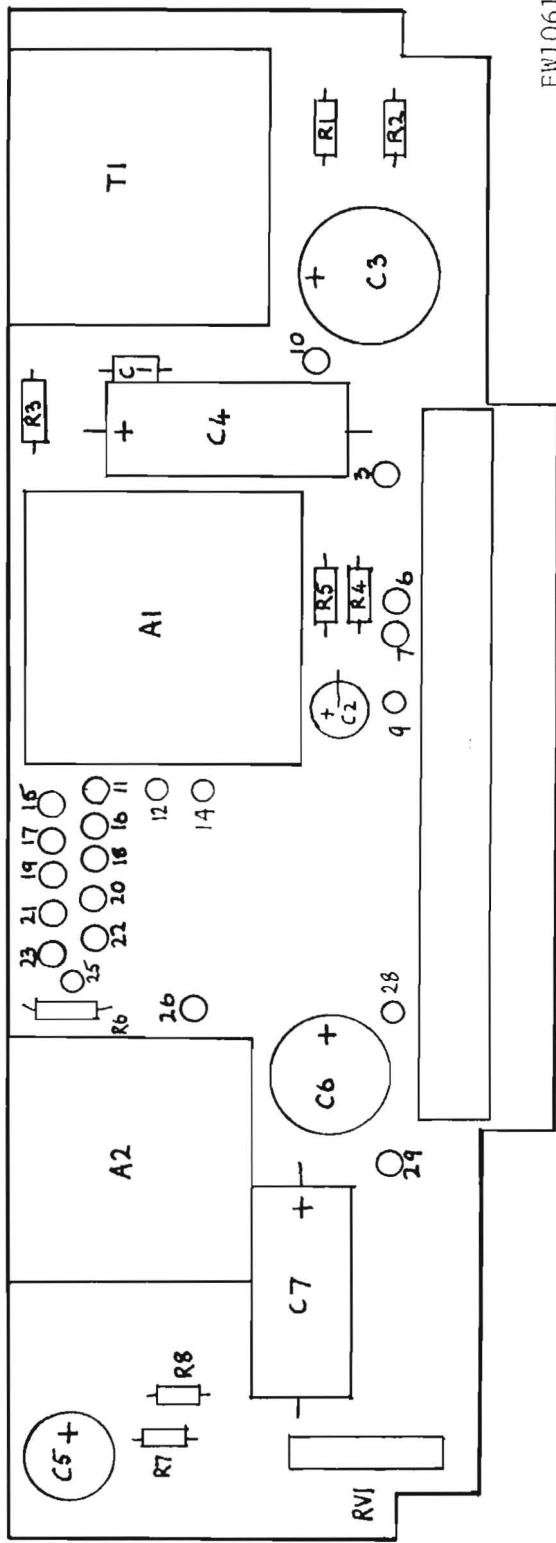


TYPICAL METER 3 & SELECTOR SWITCH  
EMPTY FOR 3ND

CHANNEL SELECTOR SWITCH  
 1 TO 10  
 11 TO 20  
 21 TO 30  
 31 TO 40  
 41 TO 50  
 51 TO 60  
 61 TO 70  
 71 TO 80  
 81 TO 90  
 91 TO 100  
 101 TO 110  
 111 TO 120  
 121 TO 130  
 131 TO 140  
 141 TO 150  
 151 TO 160  
 161 TO 170  
 171 TO 180  
 181 TO 190  
 191 TO 200  
 201 TO 210  
 211 TO 220  
 221 TO 230  
 231 TO 240  
 241 TO 250  
 251 TO 260  
 261 TO 270  
 271 TO 280  
 281 TO 290  
 291 TO 300  
 301 TO 310  
 311 TO 320  
 321 TO 330  
 331 TO 340  
 341 TO 350  
 351 TO 360  
 361 TO 370  
 371 TO 380  
 381 TO 390  
 391 TO 400  
 401 TO 410  
 411 TO 420  
 421 TO 430  
 431 TO 440  
 441 TO 450  
 451 TO 460  
 461 TO 470  
 471 TO 480  
 481 TO 490  
 491 TO 500  
 501 TO 510  
 511 TO 520  
 521 TO 530  
 531 TO 540  
 541 TO 550  
 551 TO 560  
 561 TO 570  
 571 TO 580  
 581 TO 590  
 591 TO 600  
 601 TO 610  
 611 TO 620  
 621 TO 630  
 631 TO 640  
 641 TO 650  
 651 TO 660  
 661 TO 670  
 671 TO 680  
 681 TO 690  
 691 TO 700  
 701 TO 710  
 711 TO 720  
 721 TO 730  
 731 TO 740  
 741 TO 750  
 751 TO 760  
 761 TO 770  
 771 TO 780  
 781 TO 790  
 791 TO 800  
 801 TO 810  
 811 TO 820  
 821 TO 830  
 831 TO 840  
 841 TO 850  
 851 TO 860  
 861 TO 870  
 871 TO 880  
 881 TO 890  
 891 TO 900  
 901 TO 910  
 911 TO 920  
 921 TO 930  
 931 TO 940  
 941 TO 950  
 951 TO 960  
 961 TO 970  
 971 TO 980  
 981 TO 990  
 991 TO 1000







EW10619/A

BA619 COMPONENT LAYOUT

EW 10619

DRAWING No.  
EX 10489

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COMPONENT VALUES TO BE USED ON BA489/A etc

	BA489/A	BA489/B	BA489/C	BA489/D	BA489/E	BA489/F	BA489/G	BA489/H	BA489/J	BA489/K	BA489/L	BA489/M	BA489/N	BA489/P	BA489/Q	BA489/R	BA489/S	BA489/T	BA489/U	BA489/V	BA489/W	BA489/X	BA489/Y	BA489/Z		
A1	BA437	BA438	BA440	BA437	BA438	BA440	BA437	BA438	BA437	BA438	BA640	BA438	BA440	BA640	BA512	BA441	BA438	BA441	BA638	BA640	BA638	BA640	BA638	BA638	A1	
A2	BA437	BA438	BA440	not used	not used	not used	BA438	BA440	BA440	BA640	BA640	BA438	BA440	BA640	BA512	BA441	BA512	BA638	BA640	not used	not used	BA640	BA640	A2		
C1	150/16	150/16	470/16	150/16	150/16	470/16	150/16	150/16	150/16	470/16	470/16	470/16	470/16	470/16	470/16	150/16	150/16	150/16	150/16	470/16	150/16	470/16	150/16	150/16	C1	
C2	470/25	470/25	470/25	470/25	470/25	470/25	470/25	470/25	470/25	100/40	470/40	100/40	470/25	470/40	470/25	470/25	470/25	470/25	470/25	470/25	470/25	470/25	470/25	470/25	C2	
C3	470/16	150/16	470/16	150/16	150/16	470/16	470/16	150/16	150/16	150/16	470/40	150/16	470/25	470/40	470/16	LINK	150/16	LINK	150/16	470/25	150/16	470/25	150/16	150/16	C3	
C4	150/16	150/16	470/16	not used	not used	not used	150/16	470/16	470/16	470/16	470/16	470/16	470/16	470/16	470/16	150/16	470/16	150/16	470/16	470/16	470/16	470/16	470/16	470/16	C4	
C5	470/25	470/25	470/25	---	---	---	470/25	470/25	470/25	470/40	470/40	100/40	470/25	---	470/25	470/25	470/25	---	470/25	470/25	---	---	470/25	470/25	C5	
C6	470/16	150/16	470/16	---	---	---	470/16	470/16	470/16	470/40	470/40	150/16	470/25	---	470/16	LINK	470/16	---	150/16	470/25	---	---	470/16	LINK	C6	
R1	47	47	10	47	47	10	47	47	47	47	10	47	10	10	10	LINK	47	LINK	47	10	47	10	47	47	R1	
R2	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	R2
R3	47	47	10	not used	not used	not used	47	10	10	10	10	47	10	10	10	LINK	10	---	47	10	10	10	10	10	R3	
R4	10K	10K	10K	---	---	---	10K	10K	10K	10K	10K	10K	10K	---	10K	10K	10K	---	---	10K	10K	---	---	10K	10K	R4

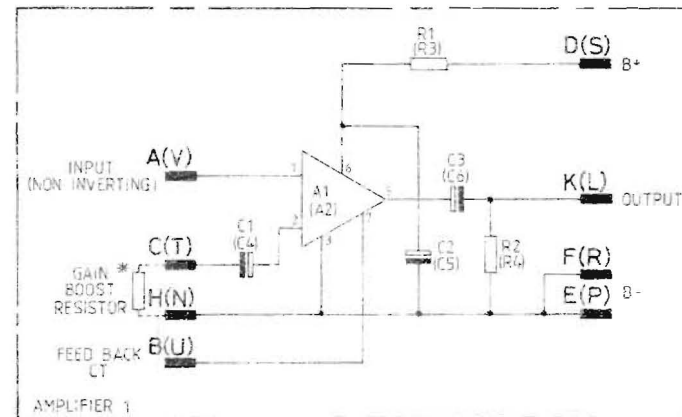
VARIANTS N,V,&X ARE NOT SUITABLE FOR MODULES & CAN ONLY BE USED IN CONSOLE APPLICATIONS.

GAIN BOOST RESISTOR VALUES  
(WHEN USING NON-INVERTING INPUT)

	BA489/AA	BA489/AB	BA489/AC	BA489/AD	BA489/AE	
A1	BA640	BA638	BA640	BA640	BA441	A1
A2	BA640	BA441		BA441	BA441	A2
C1	470/16	150/16	1000/16	470/16	150/16	C1
C2	470/25	470/40	470/25	470/25	470/25	C2
C3	LINK	150/16	1000/16	470/16	1000/16	C3
C4	470/16	150/16		470/16	150/16	C4
C5	470/25	470/40		470/25	470/25	C5
C6	LINK	LINK		LINK	1000/16	C6
R1	10	47	10	10	LINK	R1
R2		10K	10K	10K	10K	R2
R3	10	LINK		LINK	LINK	R3
R4		10K			10K	R4

dB	Ohms
10	6K8
12	5K1
14	3K6
16	2K7
18	2K2
20	1K6
22	1K3
24	1K0
26	820
28	620
30	510
32	390
34	300
36	240
38	200
40	150
42	120
44	91

MAXIMUM GAIN BOOST 45dB



AMPLIFIER 1  
AMPLIFIER 2 IDENTICAL PIN & COMPONENT IDENT'S IN BRACKETS

17	—	10	ISSUE	FIRST USED ON	MATL	TOL UNLESS OTHERWISE STATED
15-1-82	17-6-81	20-6-81	DATE	DRN T.J.S	FINISH	LINEAR ANGULAR HOLES
50730	REDRAWN	61314	CHANGE NOTE NO	TRACED S.P.W	TITLE	DIMS IN SCALE
			CHECKED		DUAL AMP MOTHERBOARD FOR BA437-440 SERIES	DRG No. EX 10489
			CHECKED		Neve Electronics International Ltd.	1981 © AZ

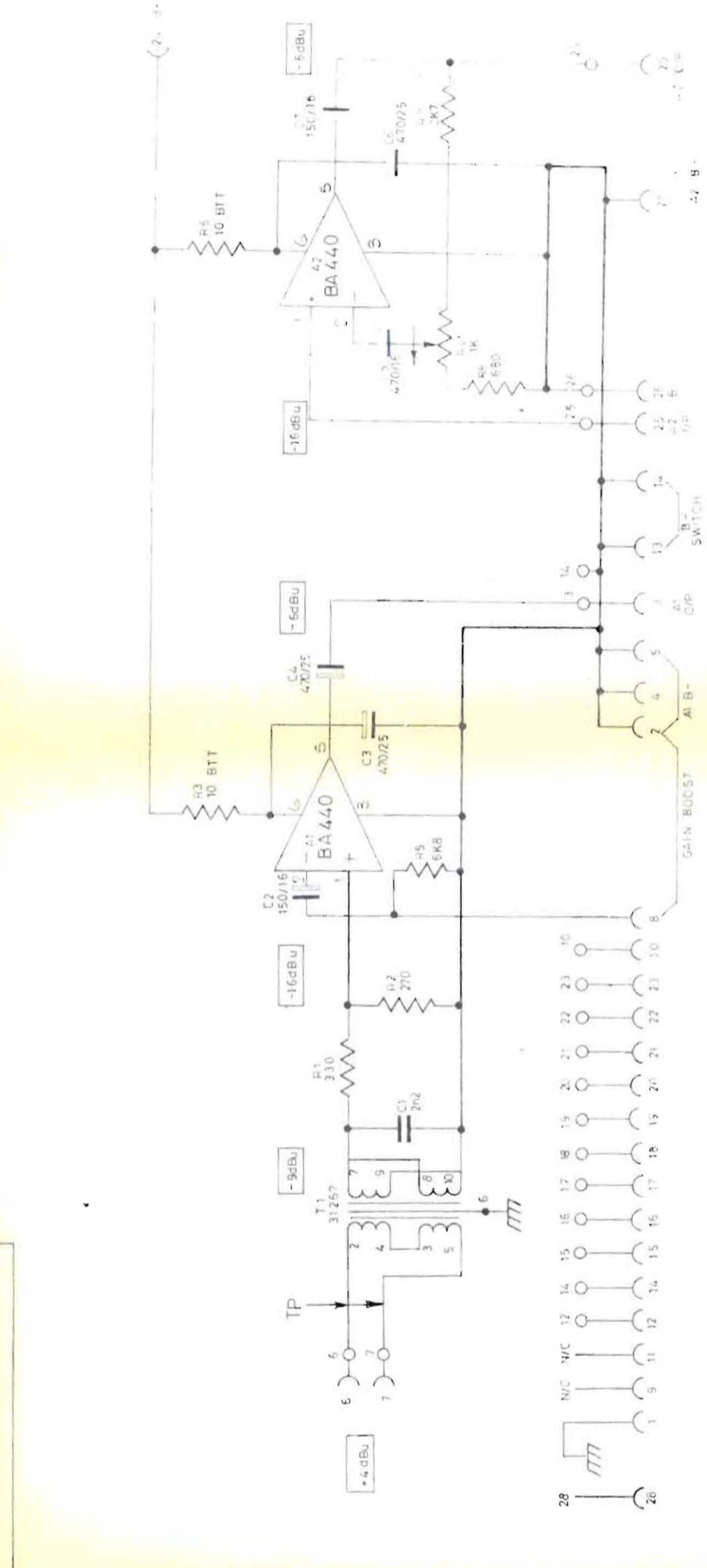
EX 10489

EX 10619/A

DRAWING No.

EX 10619/A

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ISSUE	DATE	CHANGE NOTE NO	CHECKED	FIRST USED ON	MATL
1				A4216 SW UNIT	FINISH
2	11-7-77			DRN. A J	TRACED JDC
					CHECKED

EX 10619/A  
1977  
© A3  
MY 3465R

Rupert Neve & Company Ltd.

BA 1.1.1.1 MOTHERBOARD

UNLESS OTHERWISE STATED  
ALL DIMENSIONS ARE IN MILLIMETERS

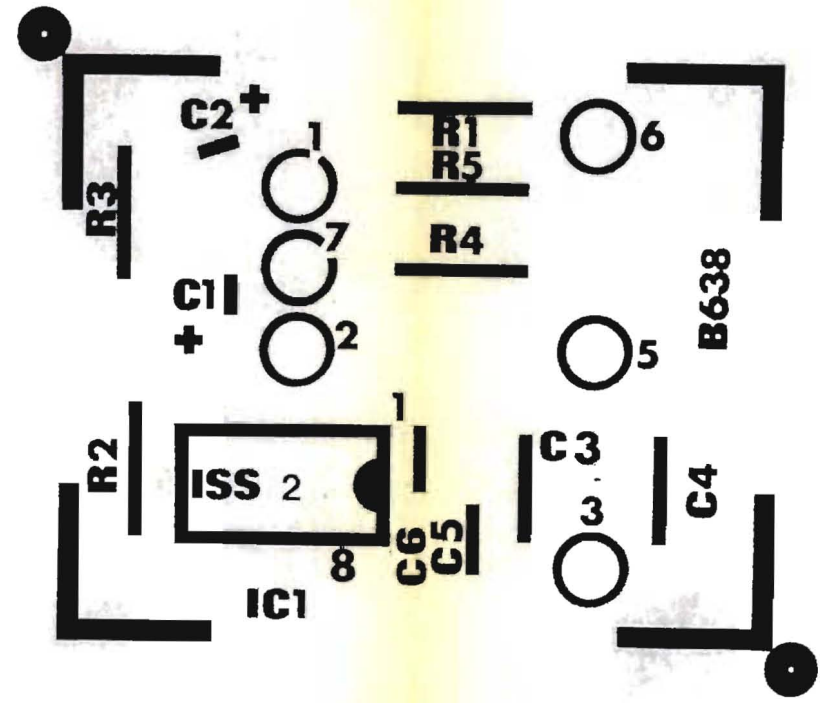
EX 10619/A

EW 10638

DRAWING No.  
EW10638

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A  
B  
C  
D  
E



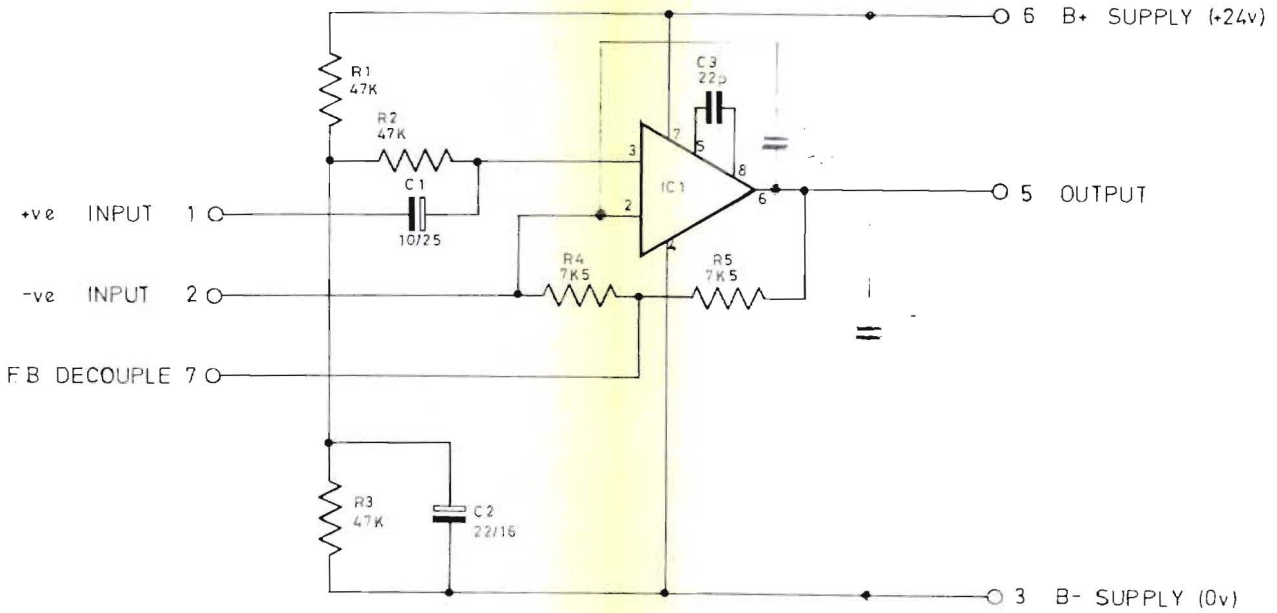
2	1	ISSUE	FIRST USED ON	MATL.	TOL. UNLESS OTHERWISE STATED	
		DATE	DRN.	FINISH	LINEAR	ANGULAR HOLES
		CHANGE NOTE NO.	TRACED		$+0.13$	$-0$
		CHECKED	CHECKED	TITLE	3rd ANGLE PROJ.	DIMS. IN SCALE
		CHECKED	Neve Electronics International Ltd.		DRG. No.	FW10638
					19	© A3

EW 10638

EX 10638

DRAWING No.  
EX 10638

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NOTES -- 1 ALL RESISTORS 1/4 W 5% MO  
2 C1 IS A LOW LEAKAGE TANTALUM CAPACITOR

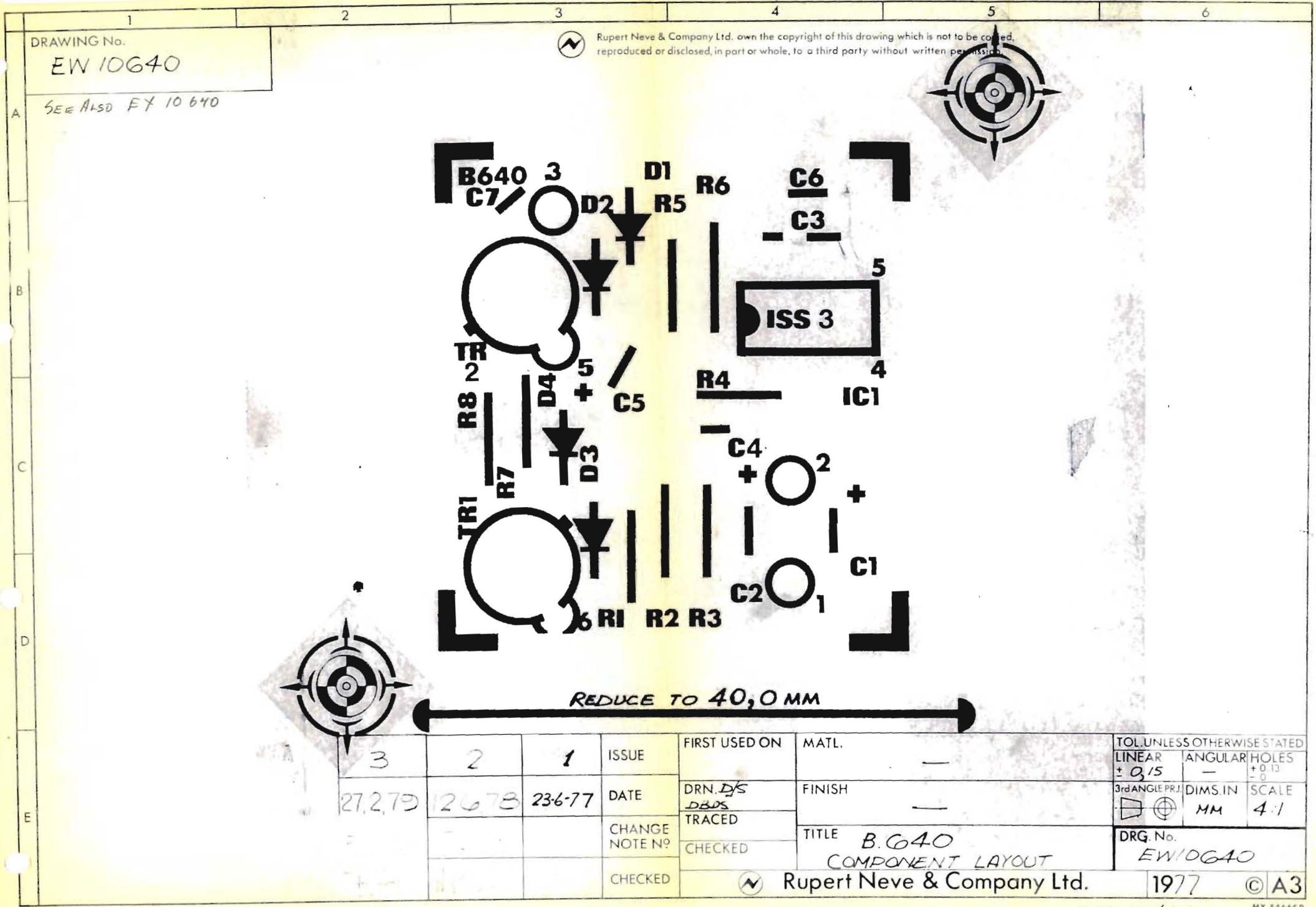
		1	ISSUE	FIRST USED ON	MATL.	TOL UNLESS OTHERWISE STATED
			DATE	DRN. J. B.	FIN. J. B.	LINEAR ANGULAR HOLES
			CHANGE NOTE NO	TRACED J. D. C.		3rd ANGLE PROJ DIMS. IN SCALE
			CHECKED	CHECKED J. B.	TITLE SMALL SIGNAL AMPLIFIER	DRG. No EX 10638
					BA 638	1977 © A3

Rupert Neve & Company Ltd.

BA 638

EX 10638

FW 10640



DRAWING No.  
EW 10640

SEE ALSO FX 10640

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3	2	1	ISSUE	FIRST USED ON	MATL.	TOL. UNLESS OTHERWISE STATED		
			DATE	DRN. <i>D/S</i> <i>D/S</i> TRACED	FINISH	LINEAR ± 0.15	ANGULAR —	HOLES +0.13 —0
			CHANGE NOTE N°	CHECKED	TITLE B.640 COMPONENT LAYOUT	3rd ANGLE PROJ. ⊕	DIMS. IN MM	SCALE 4:1
			CHECKED	Rupert Neve & Company Ltd.			DRG. No. EW10640	1977 © A3

FW 10640 MY 54665R

B  
A  
6  
4  
0  
  
E  
W  
1  
0  
6  
4  
0

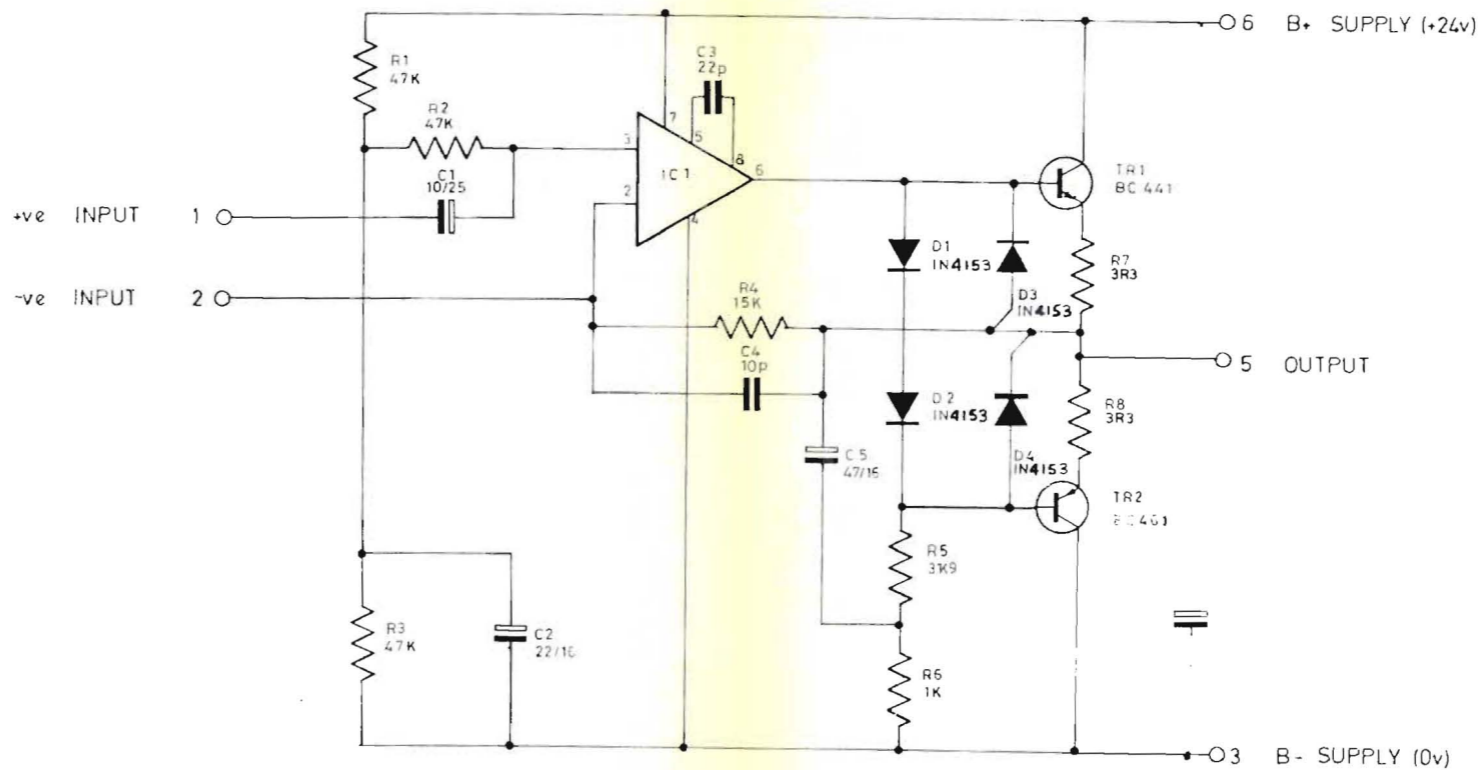
EX 10640

DRAWING No.

EX 10640

SEE ALSO EW 10640

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NOTE - 1 ALL RESISTORS  $\frac{1}{4}$  W 5% M.O.  
 2 C1 IS A LOW LEAKAGE TANTALUM CAPACITOR.  
 TR1 & TR2 ARE MOUNTED TO HEATSINK

4	3	2	1	ISSUE	FIRST USED ON D205	MATL.	TOL UNLESS OTHERWISE STATED
12-7-78	2-6-78	23-3-77	DATE	DRN J.B.	FINISH	LINEAR	ANGULAR HOLES +0.13 -0
30117	30116		CHANGE NOTE NO	TRACED J.D.C.	TITLE 1.5 Watt POWER AMPLIFIER BA 640	3rd ANGLE PROJ	DIMS IN SCALE
			CHECKED				DRG No. EX 10640

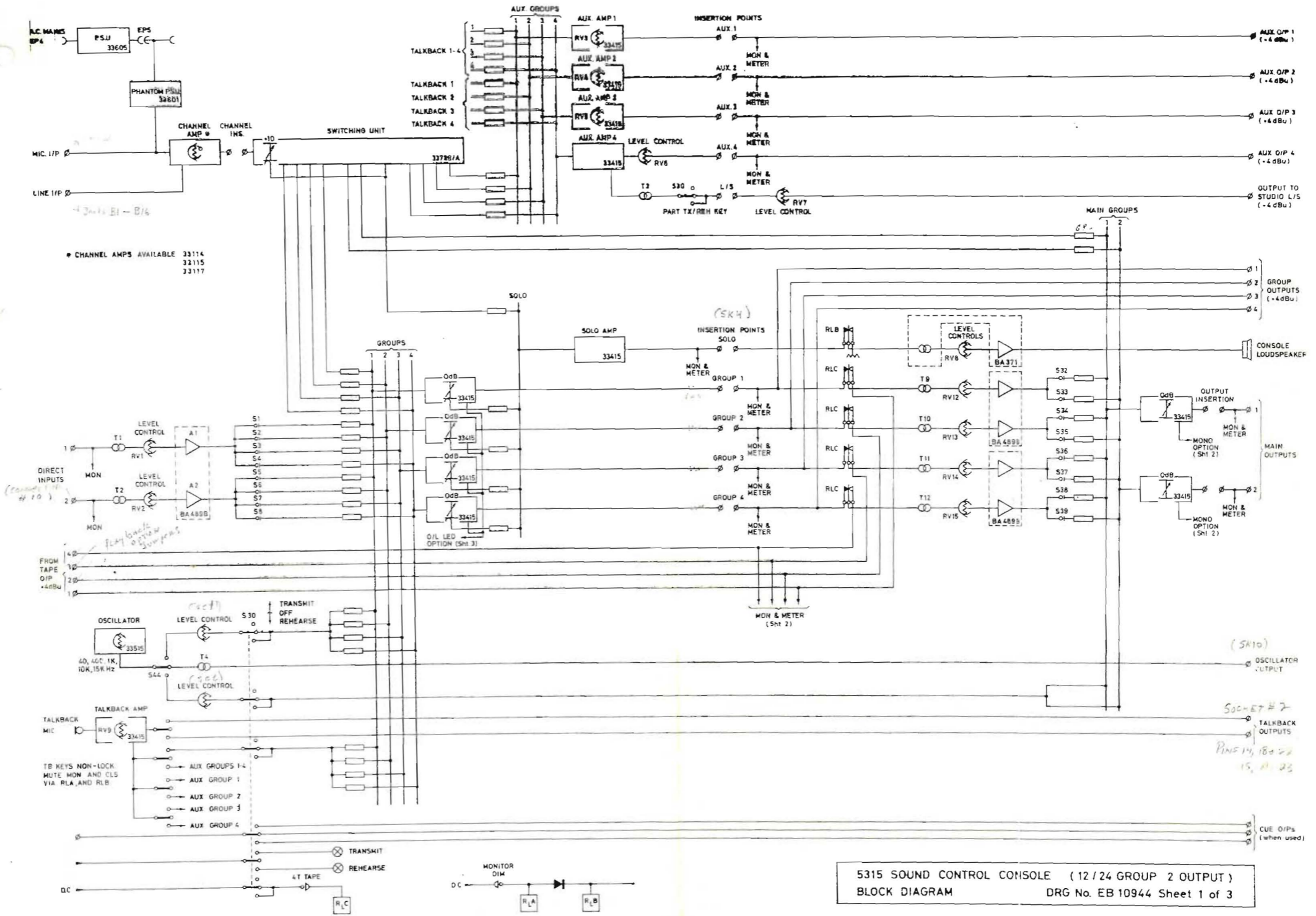
Rupert Neve & Company Ltd.

1977

© A3

MY 54665R

EX 10640

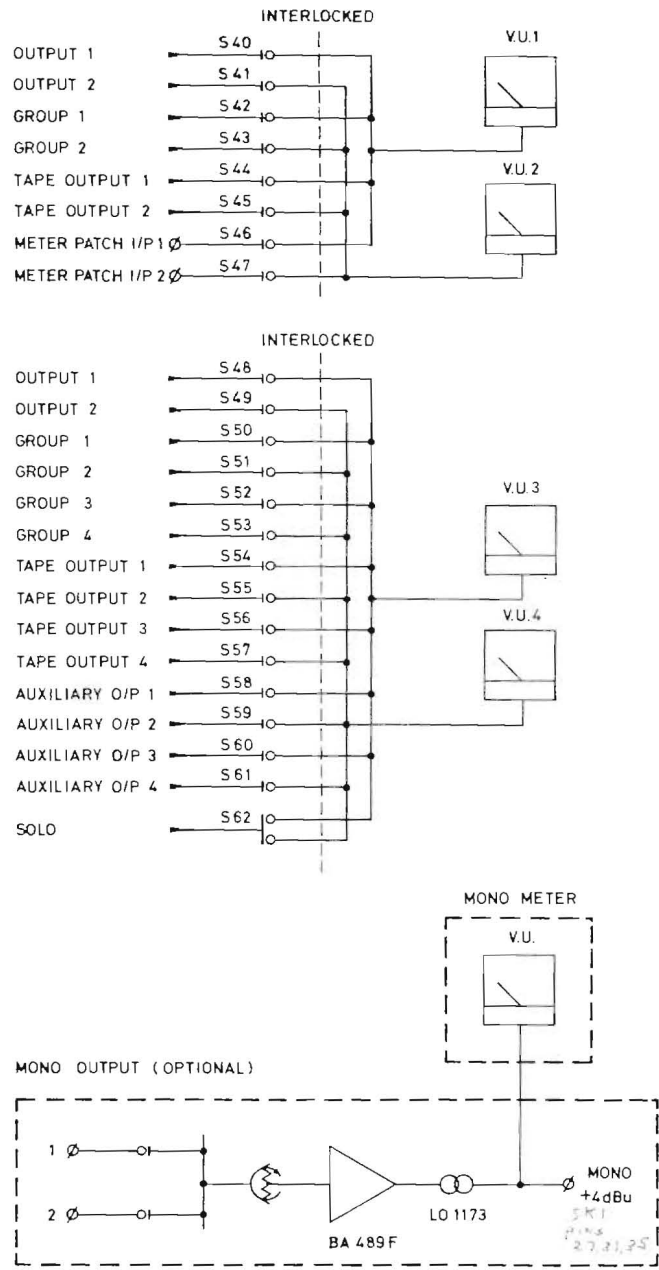


5315 SOUND CONTROL CONSOLE (12/24 GROUP 2 OUTPUT)  
 BLOCK DIAGRAM  
 DRG No. EB 10944 Sheet 1 of 3

EB  
 10944  
 1  
 OF  
 3



### METERING



### MONITORING

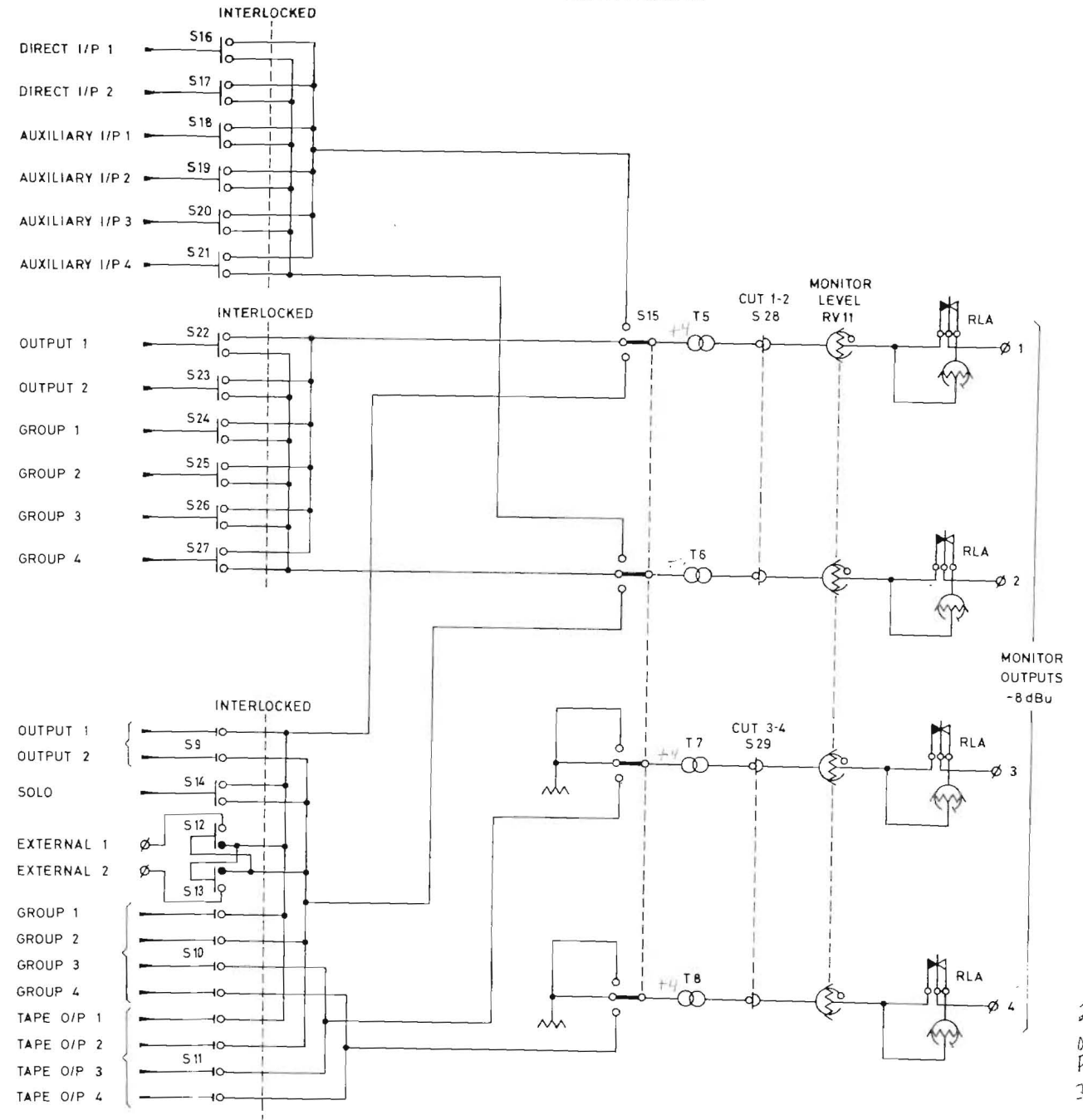
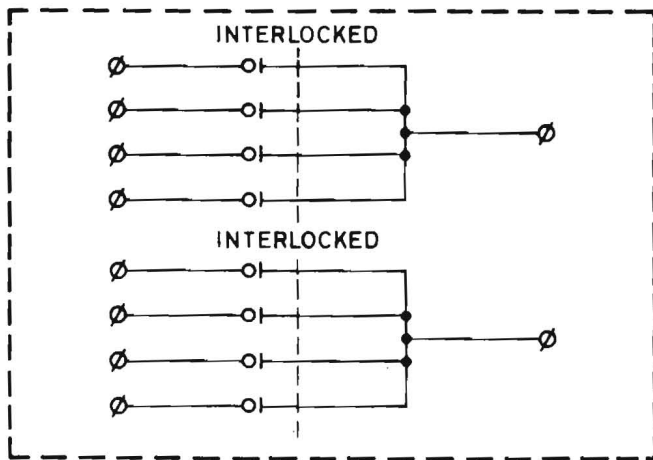


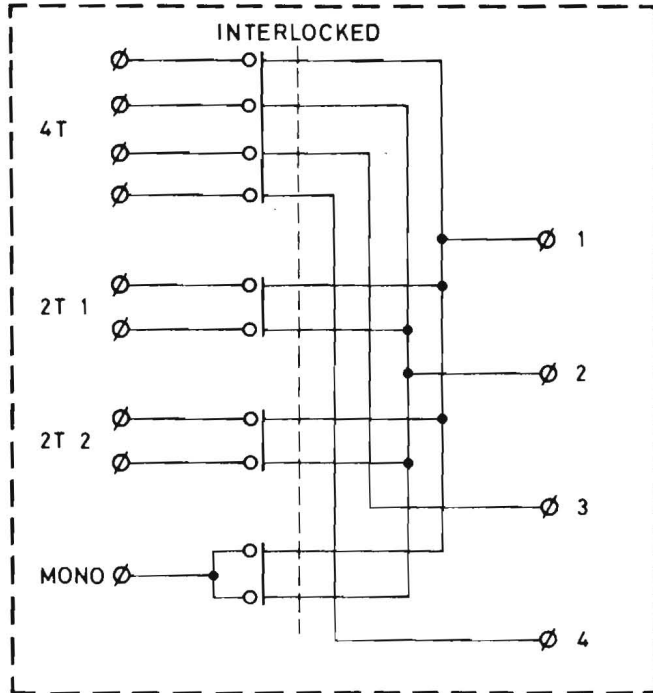
Fig. 1B MONITORING AND METERING

A 1 1 0 4 1 2 0 F 3

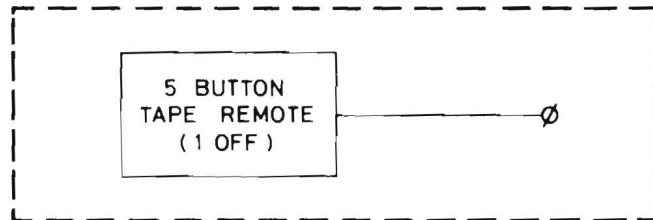
INPUT SELECTOR ( 2 CHANNELS )



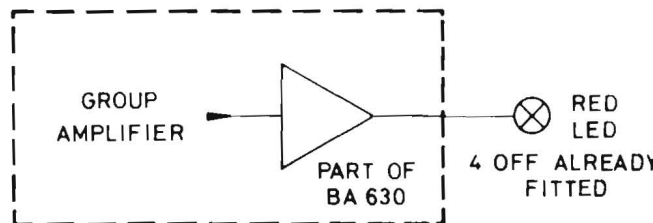
PLAYBACK SELECTOR



TAPE REMOTE



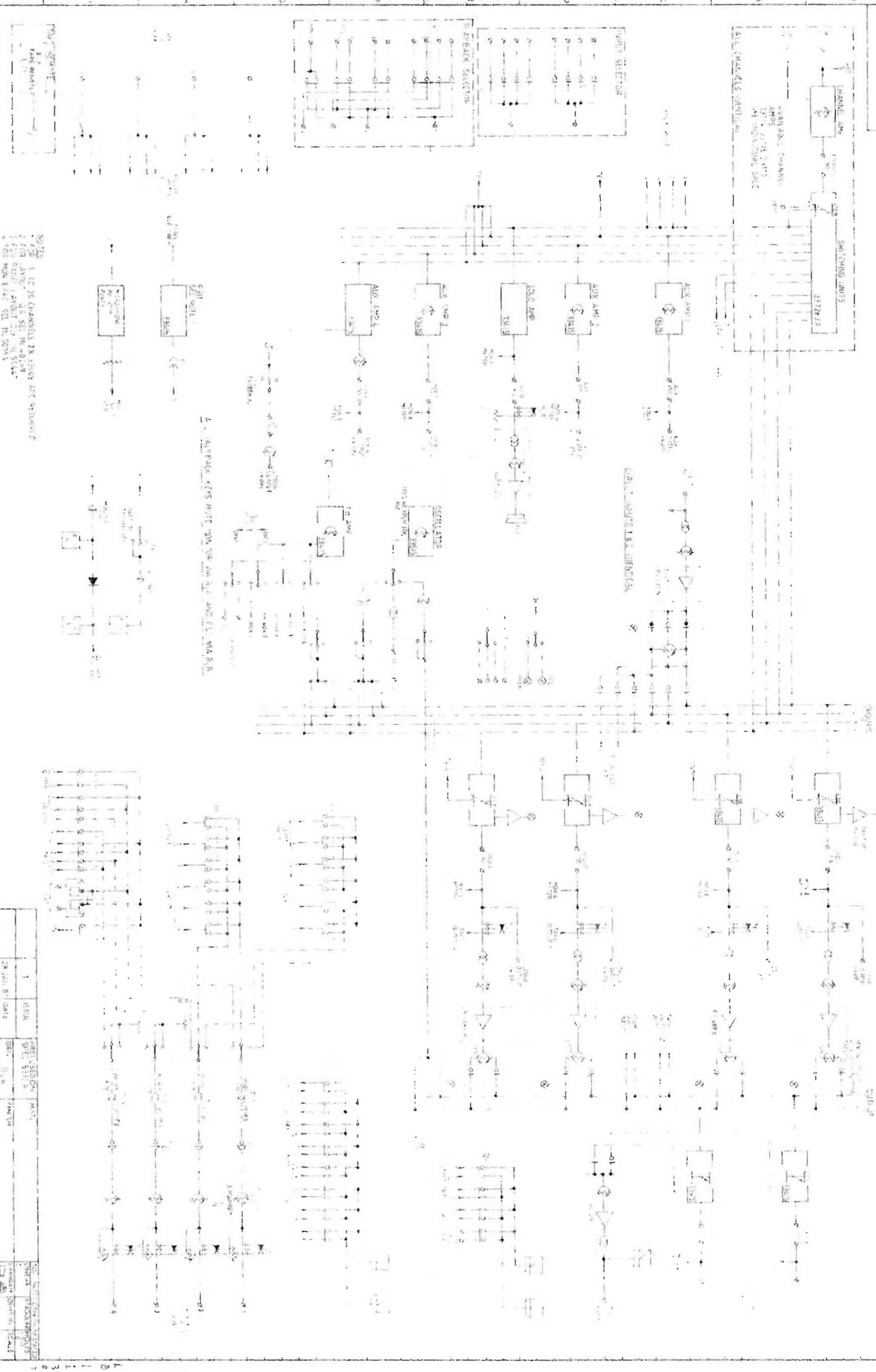
OVERLOAD INDICATORS ( 4 OFF )



OPTIONS

DRG. No. ER 10944 Sheet 3 of 3

EB 10944 3 OF 3



NOTE: 1. IC 16 CHANNELS IN 300V ARE REQUIRED.  
 2. FOR AMP. 3. A SET IN 0.10V.  
 3. FOR AMP. 1. OUTPUT 2. IN 50V.  
 4. FOR AMP. 1. IN 50V.

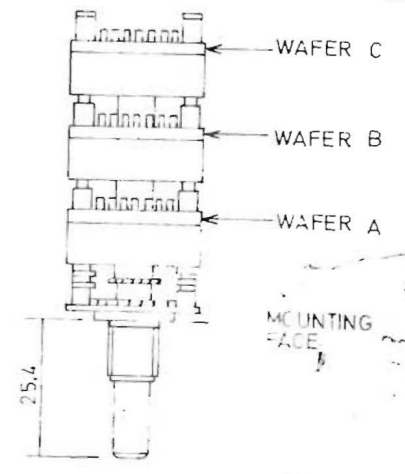
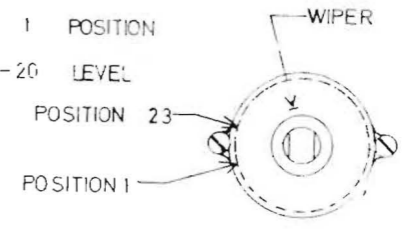
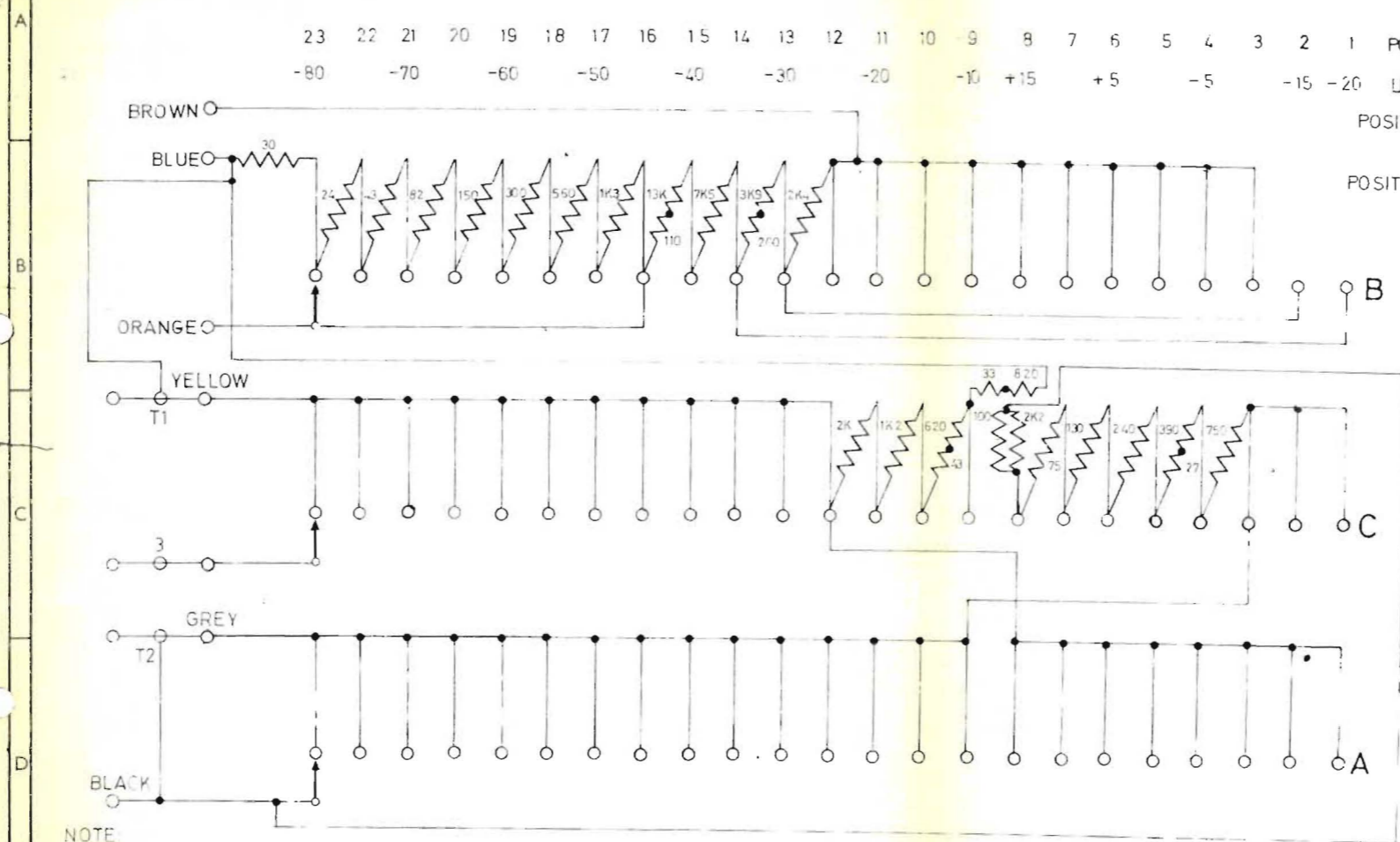
A. APPROX. KEYS MUST GO UP ON L.F. AND L.F. VIA P.F.

1	450K	RESISTOR	100K	RESISTOR
2	100K	RESISTOR	100K	RESISTOR
3	100K	RESISTOR	100K	RESISTOR
4	100K	RESISTOR	100K	RESISTOR
5	100K	RESISTOR	100K	RESISTOR
6	100K	RESISTOR	100K	RESISTOR
7	100K	RESISTOR	100K	RESISTOR
8	100K	RESISTOR	100K	RESISTOR
9	100K	RESISTOR	100K	RESISTOR
10	100K	RESISTOR	100K	RESISTOR
11	100K	RESISTOR	100K	RESISTOR
12	100K	RESISTOR	100K	RESISTOR
13	100K	RESISTOR	100K	RESISTOR
14	100K	RESISTOR	100K	RESISTOR
15	100K	RESISTOR	100K	RESISTOR
16	100K	RESISTOR	100K	RESISTOR
17	100K	RESISTOR	100K	RESISTOR
18	100K	RESISTOR	100K	RESISTOR
19	100K	RESISTOR	100K	RESISTOR
20	100K	RESISTOR	100K	RESISTOR
21	100K	RESISTOR	100K	RESISTOR
22	100K	RESISTOR	100K	RESISTOR
23	100K	RESISTOR	100K	RESISTOR
24	100K	RESISTOR	100K	RESISTOR
25	100K	RESISTOR	100K	RESISTOR
26	100K	RESISTOR	100K	RESISTOR
27	100K	RESISTOR	100K	RESISTOR
28	100K	RESISTOR	100K	RESISTOR
29	100K	RESISTOR	100K	RESISTOR
30	100K	RESISTOR	100K	RESISTOR
31	100K	RESISTOR	100K	RESISTOR
32	100K	RESISTOR	100K	RESISTOR
33	100K	RESISTOR	100K	RESISTOR
34	100K	RESISTOR	100K	RESISTOR
35	100K	RESISTOR	100K	RESISTOR
36	100K	RESISTOR	100K	RESISTOR
37	100K	RESISTOR	100K	RESISTOR
38	100K	RESISTOR	100K	RESISTOR
39	100K	RESISTOR	100K	RESISTOR
40	100K	RESISTOR	100K	RESISTOR
41	100K	RESISTOR	100K	RESISTOR
42	100K	RESISTOR	100K	RESISTOR
43	100K	RESISTOR	100K	RESISTOR
44	100K	RESISTOR	100K	RESISTOR
45	100K	RESISTOR	100K	RESISTOR
46	100K	RESISTOR	100K	RESISTOR
47	100K	RESISTOR	100K	RESISTOR
48	100K	RESISTOR	100K	RESISTOR
49	100K	RESISTOR	100K	RESISTOR
50	100K	RESISTOR	100K	RESISTOR

EK 20046

DRAWING NO. EK 20046

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ELMA 01-3 X 23

NOTE: REFERS TO 1081 SERIES SEE RELEVANT CIRCUITS

WIRES TO BE 6" LONG 7/7076 OR EQUIVALENT

5	4	3	2	1	ISSUE	FIRST USED ON A 599	MATL	TOL UNLESS OTHERWISE STATED		
24-7-75	9-11-73	29/10/73	24/11/73	1E-9-72	DATE	DRN. PFT	FINISH	LINEAR	ANGULAR	HOLES
10988	10802	10790	10635		CHANGE NOTE NO	TRACED		3RD ANGLE PROJ.	DIMS IN	SCALE
					CHECKED		TITLE 1081 CHANNEL AMPLIFIER SENSITIVITY SWITCH ASSEMBLY	DRG NO	EK 20046	
					CHECKED		Rupert Neve & Company Ltd.	1972	© A3	

NM7827

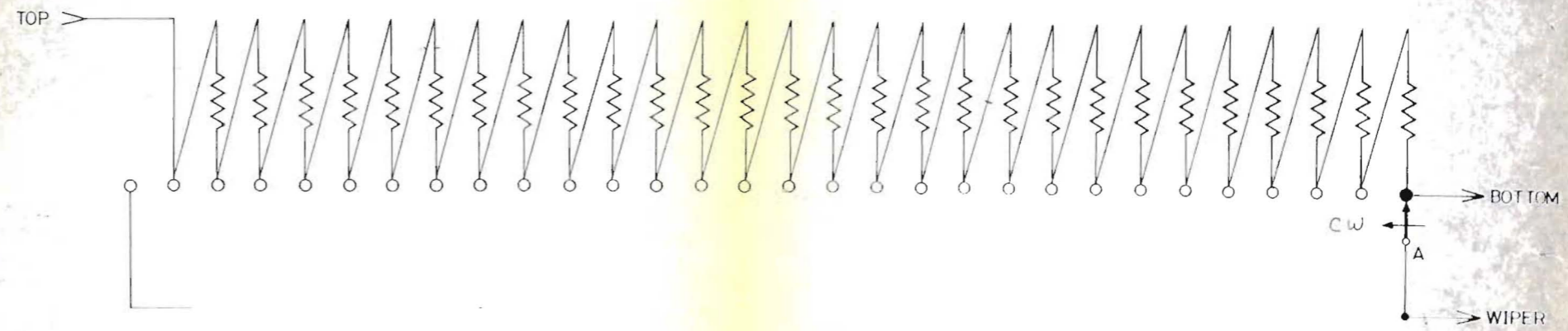
E  
K  
20046

EK 20084/-

DRAWING No.  
EK 20084/-

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POSITION	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
RES. VALUE			150	150	120	120	120	100	91	82	82	75	68	68	56	47	47	39	33	27	22	22	18	18	15	15	12	12	12	10
								(100)				(68)																		



APPROX dB STEPS	0	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.8	2.0	2.4	2.7	3.7	6.9	∞
-----------------	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	---

NOTE: TOTAL RESISTANCE 1630 ohms  
MADE ON PAINTON WINKLER 30 WAY, (CS-1P-23-4B)  
STOPPED TO 29, ROTATION 336°  
ALL RESISTORS TR4/MR4 5%

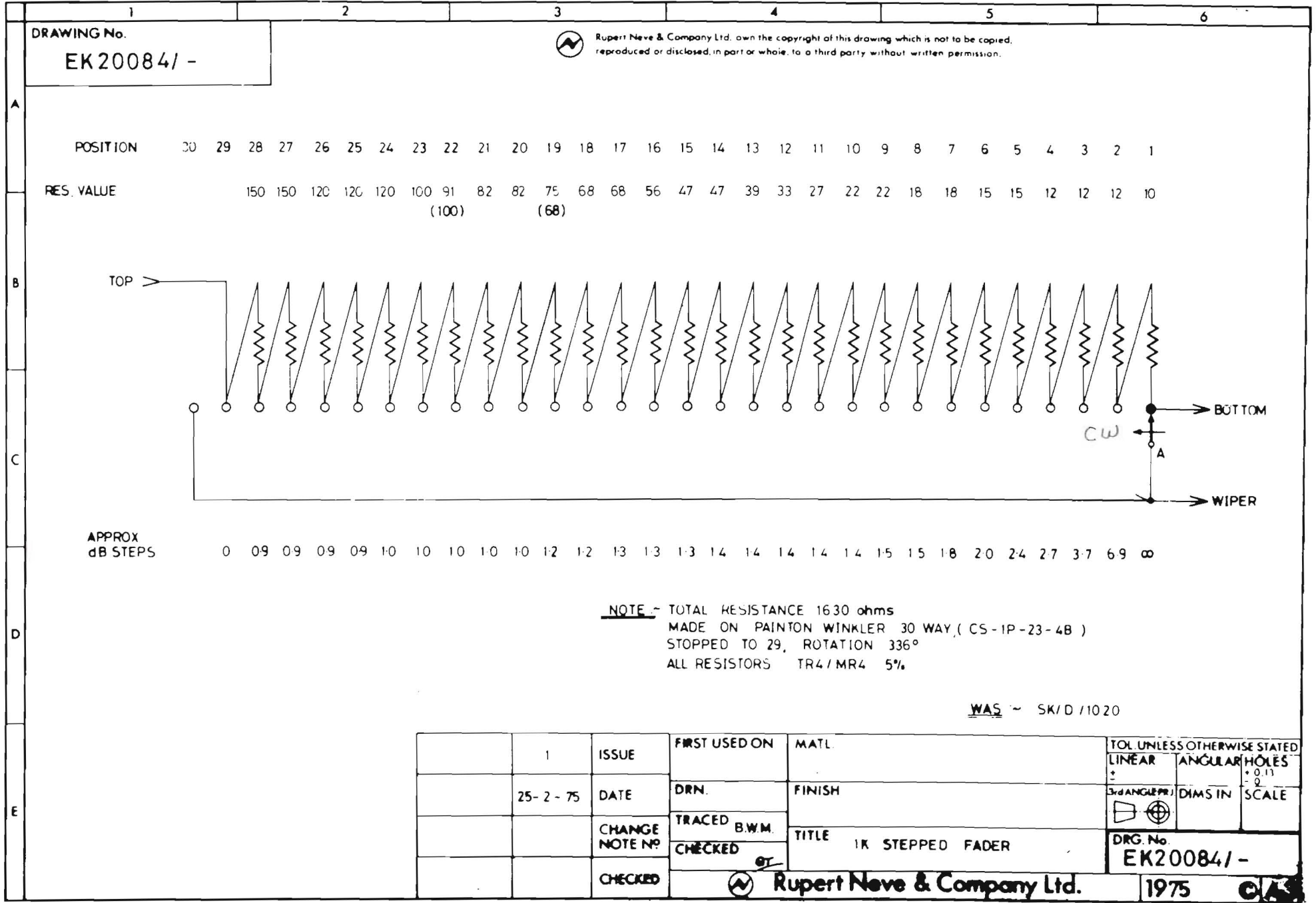
WAS ~ SK/D 11020

1	ISSUE	FIRST USED ON	MATL	TOL UNLESS OTHERWISE STATED
25-2-75	DATE	DRN.	FINISH	LINEAR
	CHANGE NOTE N°	TRACED B.W.M.	TITLE	ANGULAR HOLES
	CHECKED	CHECKED	1K STEPPED FADER	3rd ANGLE PROJ
	CHECKED			DIMS IN SCALE
				DRG No.
				EK20084/-
Rupert Neve & Company Ltd.				1975

EK 20084

© A3

FH 20084/



ET 20084/

CA

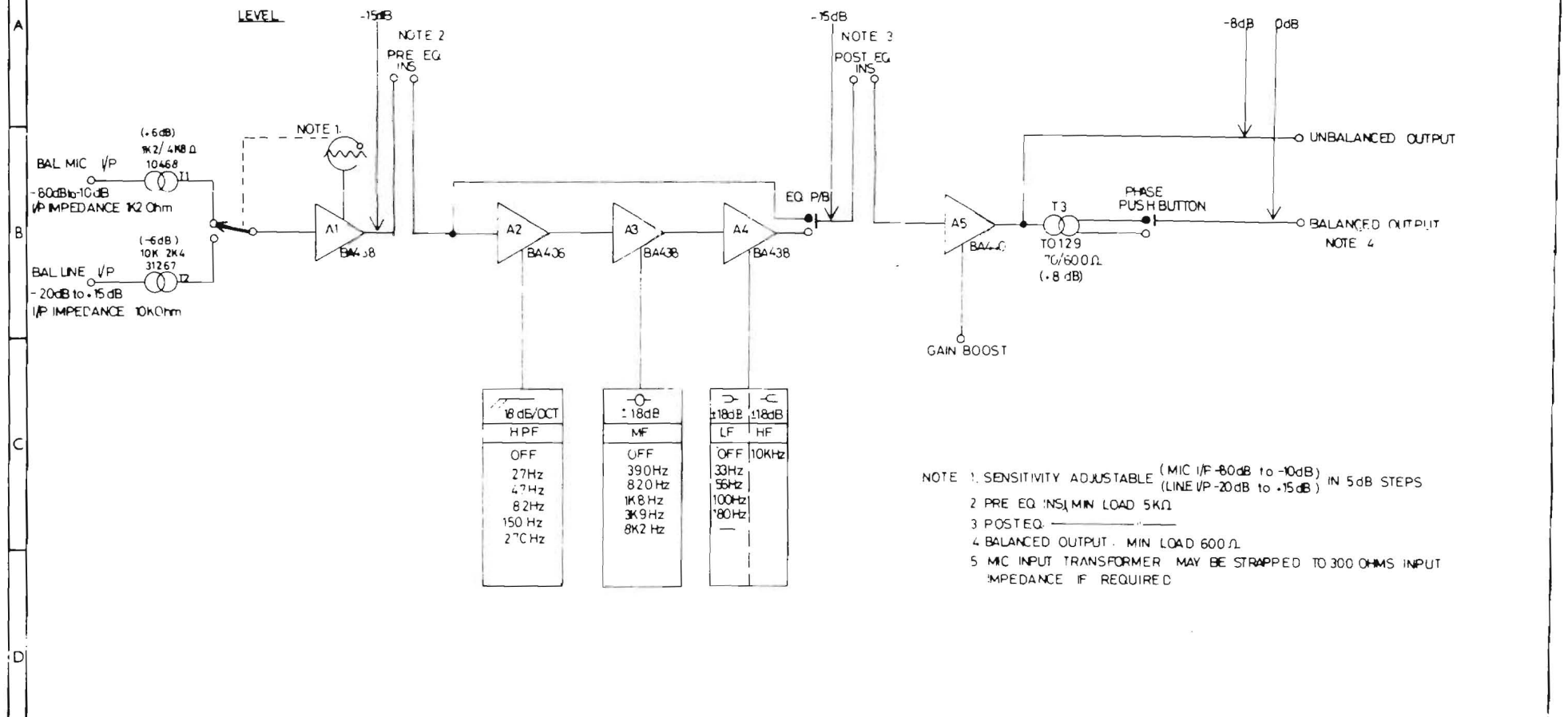
EK20084/- SWITCH ASSEMBLY

IK63 TAPERED FADER

1 Bank -/1	2 Bank -/2	3 Bank -/3	4 Bank -/4	Description	Part No.
1	1			Switch Painton Winkler CS-IP-23-2B	S0145
		1	1	Switch Painton Winkler CS-IP-23-4B	S0146
1	2	3	4	Resistor 10 TP4 ±2%	R4 10
3	6	9	12	Resistor 12 " "	R4 12
2	4	6	8	Resistor 15 " "	R4 15
2	4	6	8	Resistor 18 " "	R4 18
2	4	6	8	Resistor 22 " "	R4 22
1	2	3	4	Resistor 27 " "	R4 27
1	2	3	4	Resistor 33 " "	R4 33
1	2	3	4	Resistor 39 " "	R4 39
2	4	6	8	Resistor 47 " "	R4 47
1	2	3	4	Resistor 56 " "	R4 56
2	4	6	8	Resistor 68 " "	R4 68
1	2	3	4	Resistor 75 " "	R4 75
2	4	6	8	Resistor 82 " "	R4 82
1	2	3	4	Resistor 91 " "	R4 91
1	2	3	4	Resistor 100 " "	R4 100
3	6	9	12	Resistor 120 " "	R4 120
2	4	6	8	Resistor 150 " "	R4 150

DRAWING NO  
**EB 20104**

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18 dB/OCT	18dB	18dB	18dB
HPF	MF	LF	HF
OFF	OFF	OFF	10KHz
27Hz	390Hz	33Hz	
47Hz	820Hz	56Hz	
82Hz	1K8Hz	100Hz	
150Hz	3K9Hz	180Hz	
270Hz	8K2Hz		

- NOTE 1: SENSITIVITY ADJUSTABLE (MIC I/P -80dB to -10dB)  
(LINE I/P -20dB to +15dB) IN 5dB STEPS
- 2 PRE EQ INS: MIN LOAD 5KΩ
- 3 POST EQ: \_\_\_\_\_
- 4 BALANCED OUTPUT: MIN LOAD 600Ω
- 5 MIC INPUT TRANSFORMER MAY BE STRAPPED TO 300 OHMS INPUT IMPEDANCE IF REQUIRED

2 WIRE CIRCUIT DIAG EH 10050  
FRONT PANEL LAYOUT ML60918

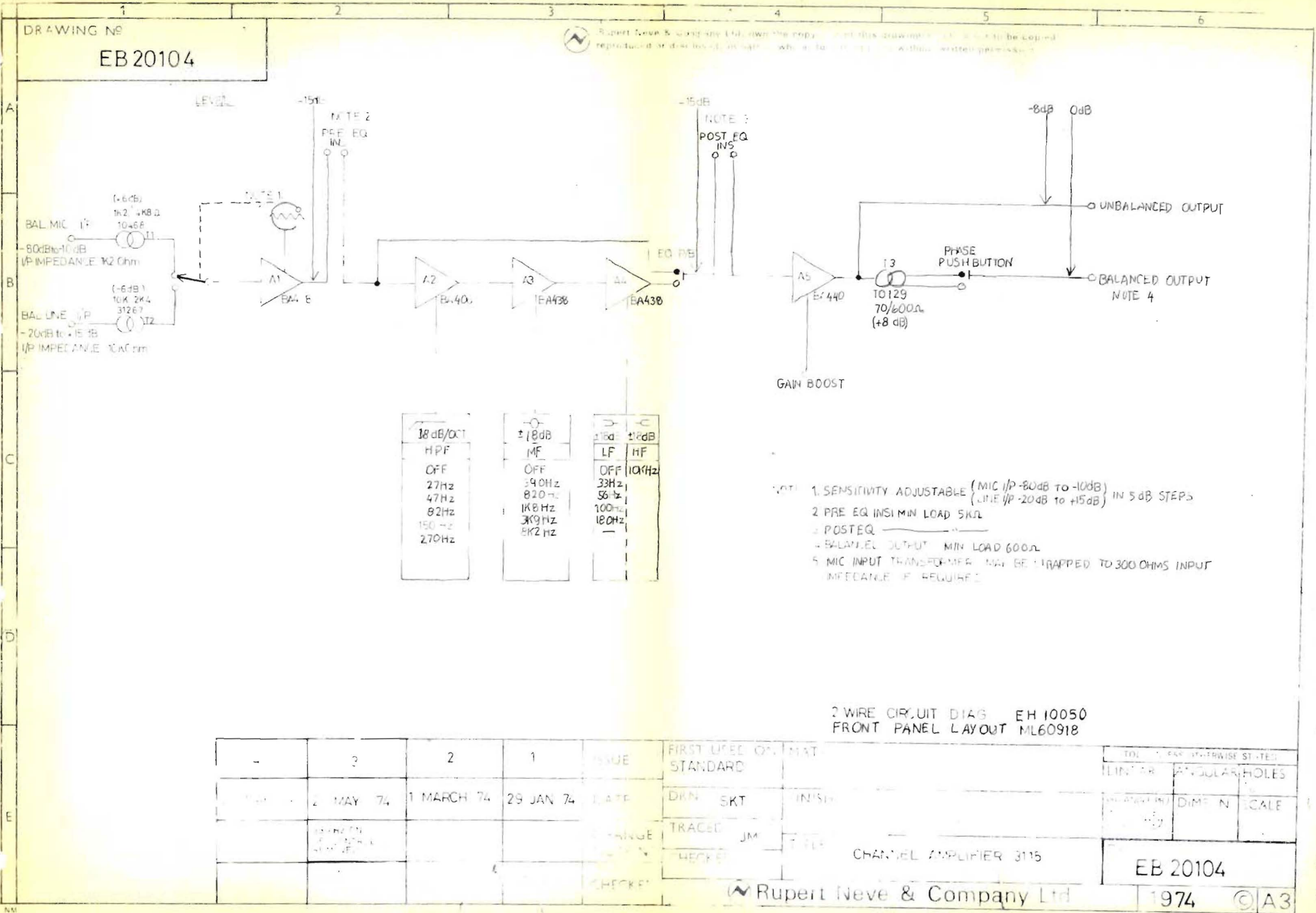
4	3	2	1	ISSUE	FIRST USED ON STANDARD	MATL	TOL UNLESS OTHERWISE STATED			
21 MAY 74	2 MAY 74	1 MARCH 74	29 JAN 74	DATE	DRN. SKT	FINISH	LINEAR	ANGULAR	HOLES	
	330 Hz ON LF CONTROL REMOVED			CHANGE NOTE NO	TRACED JM	TITLE	3RD ANGLE PROJ	DIMS IN	SCALE	
				CHECKED		CHANNEL AMPLIFIER 3115	DRG. NO <b>EB 20104</b>			
Rupert Neve & Company Ltd.							1974	© A3		

H 0 - 0 2 G M

40107 67



EB 20104



DRAWING NO  
EB 20104

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18 dB/OCT HPF	±18dB MF	10dB LF	12dB HF
OFF	OFF	OFF	OFF
27Hz	30Hz	33Hz	10KHz
47Hz	820Hz	56Hz	
82Hz	1K8Hz	100Hz	
150Hz	3K9Hz	180Hz	
270Hz	8K2Hz		

- NOTE:
1. SENSITIVITY ADJUSTABLE (MIC I/P -80dB TO -10dB) (LINE I/P -20dB TO +15dB) IN 5dB STEPS
  2. PRE EQ INS MIN LOAD 5KΩ
  3. POST EQ " " " "
  4. BALANCED OUTPUT MIN LOAD 600Ω
  5. MIC INPUT TRANSFORMER MAY BE TRAPPED TO 300 OHMS INPUT IMFEASIBLE IF REQUIRED

2 WIRE CIRCUIT DIAG EH 10050  
FRONT PANEL LAYOUT ML60918

	3	2	1	ISSUE	FIRST USED OR STANDARD	MAT	TITLE: PART NUMBER: ST. TEST:		
	2 MAY 74	1 MARCH 74	29 JAN 74	DATE	DRN SKT	FINISH	LINEAR	ANGULAR	HOLES
				CHANGE	TRACED JM	FILE	DIAMETER	DIMENSION	SCALE
				CHECKED			CHANNEL AMPLIFIER 3115		
							EB 20104		
							1974 © A3		

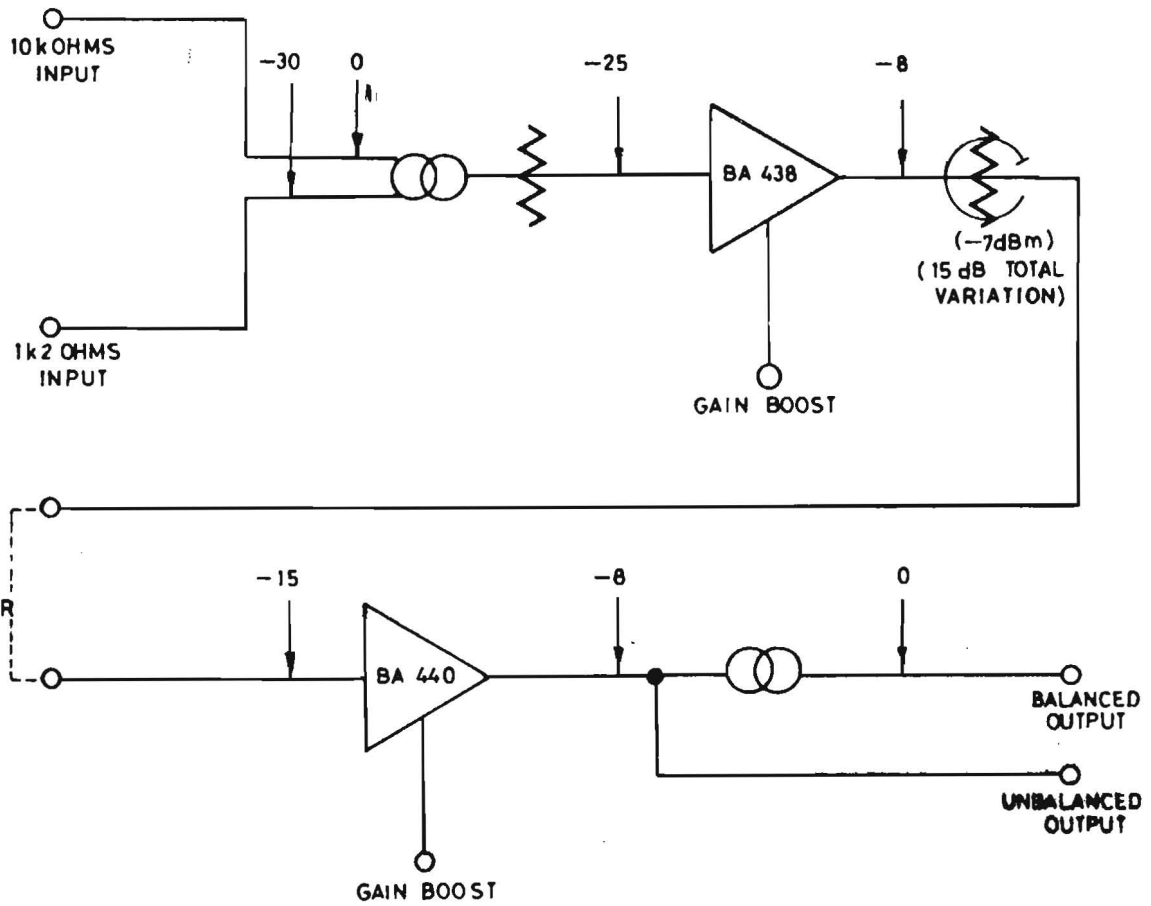
Rupert Neve & Company Ltd

EB 20104



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A  
B  
C  
D



GAIN BOOST TABLE OF VALUES FOR BA 440

BOOST	RESISTOR
3	1k5
6	620
9	360
12	220
15	120
18	91

GAIN BOOST TABLE OF VALUES FOR BA 438

BOOST	RESISTOR
3	1k0
6	430
9	240
12	150
15	91
18	62

NOTE - LEVELS ARE IN dBm

RE DRAWN FOR THB BY CM	1	ISSUE	FIRST USED ON	MATL.	TOL. UNLESS OTHERWISE STATED			
			DRN. AHL		FINISH	LINEAR +	ANGULAR	HOLES +0.13 -0
3 MAY 76	24 APR 74	DATE	TRACED JM	TITLE	3RD ANGLE PRJ.	DIMS IN	SCALE	
		CHANGE NOTE NO	CHECKED		LINE AMPLIFIER 3415	DRG. NO	EB 20121	
		CHECKED	Rupert Neve & Company Ltd.			1974	© A4	

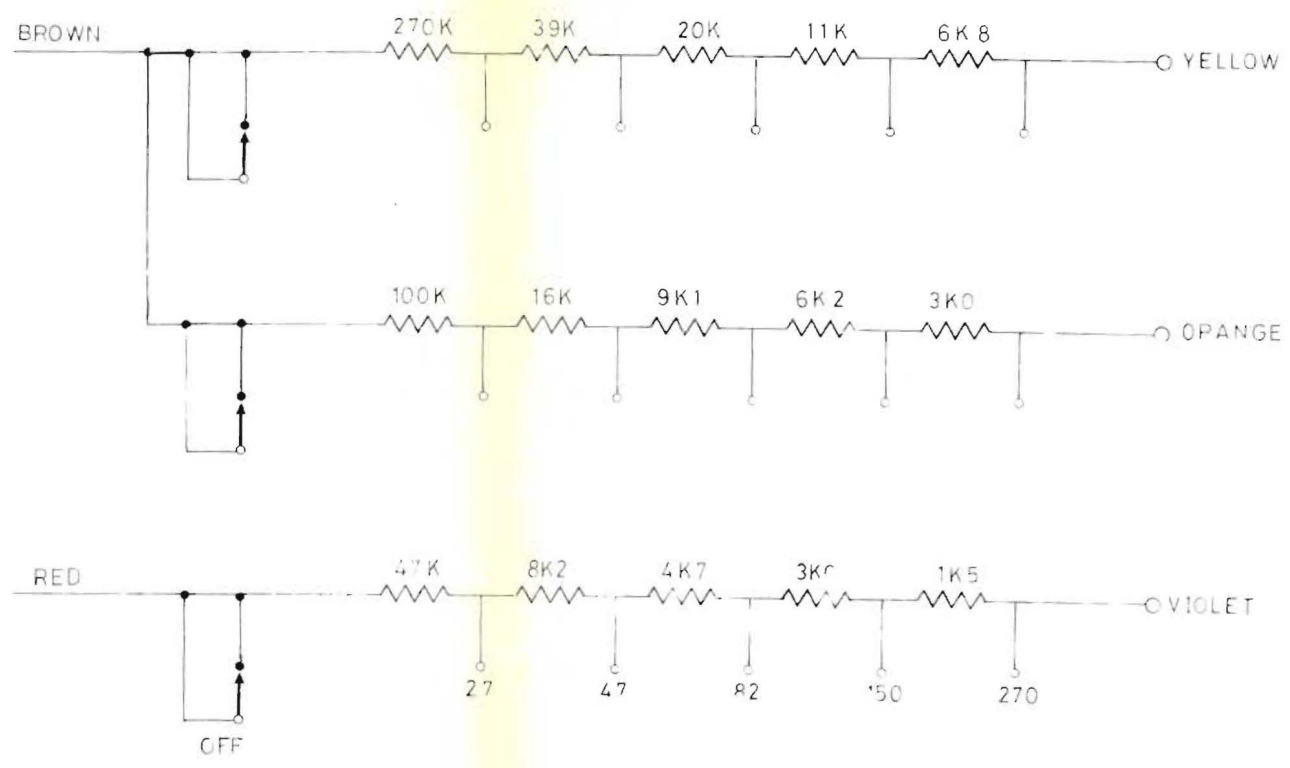
EB 20121

ER 20150

DRAWING NO  
EK 20150

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A  
B  
C  
D  
E



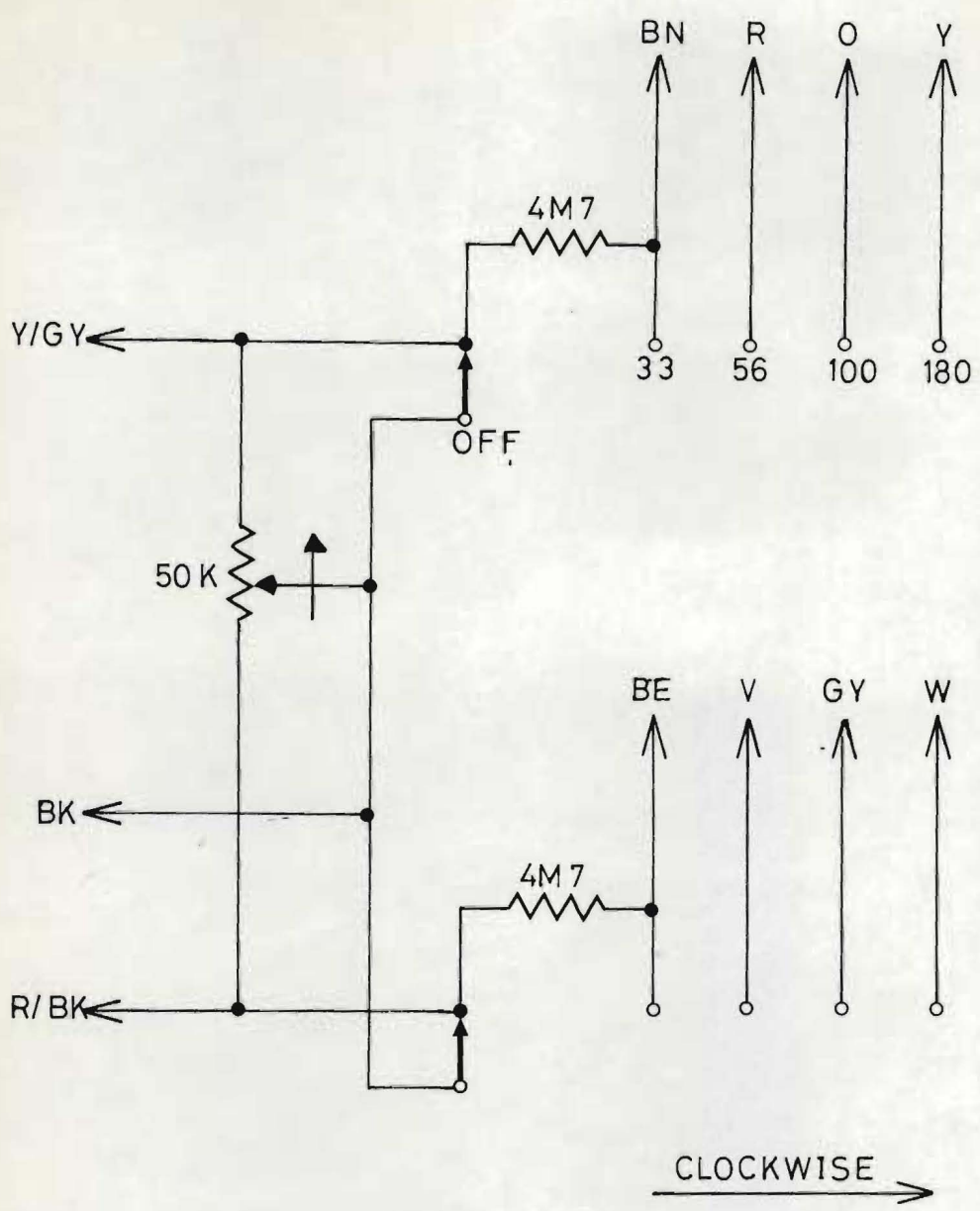
DIAMOND 'H' SWITCH 3P 6W  
SO 585

	1	ISSUE	FIRST USED ON	MAT'L	TOL. UNLESS OTHERWISE STATED		
	22 AUG 74	DATE	DRN WR	FINISH	LINEAR	ANGULAR	HOLES
		CHANGE NOTE NO	TRACED JDC	TITLE 3115 HP FILTER SWITCH ASSEMBLY	PRO ANGLE	DIMS IN	SCALE
		CHECKED			ORG NO	EK 20150	
		CHECKED	Rupert Neve & Company Ltd.		1974	© A3	

EK 20150

EK 20151


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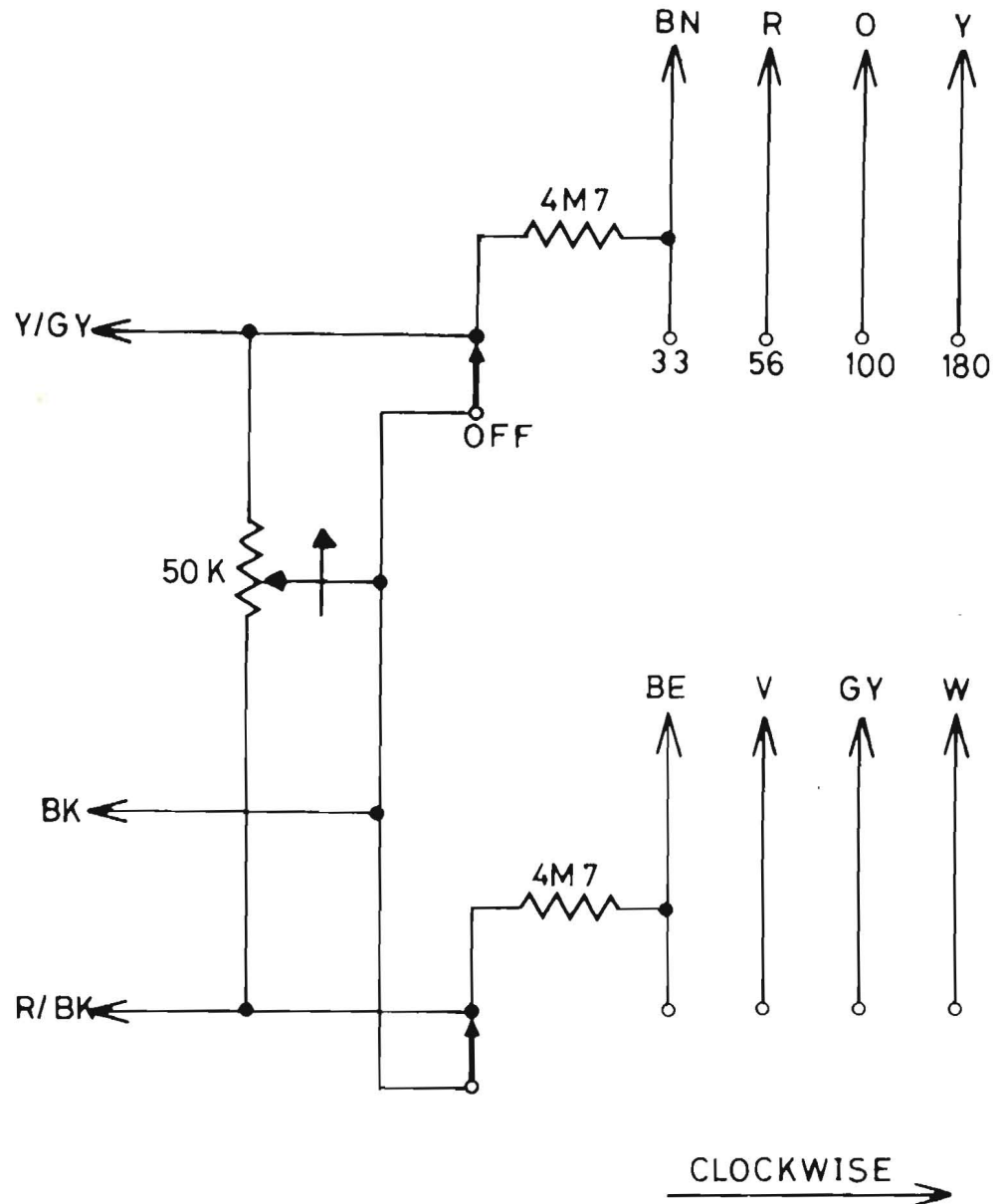



EK 20151

1	ISSUE	FIRST USED ON	MATL.	TOL. UNLESS OTHERWISE STATED			
	22.8.74.	DATE	DRN. W.R.	FINISH	LINEAR ±	ANGULAR	HOLES + .005 - .000
	CHANGE NOTE NO	TRACED JDC.			3RD ANGLE PRJ.	DIMS IN	SCALE
	CHECKED	WUR	TITLE 3115 BASS SWITCH ASSEMBLY		DRG. NO EK 20151		
	CHECKED	Rupert Neve & Company Ltd.			1974	© A4	

NM7828

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1	ISSUE	FIRST USED ON	MATL.	TOL. UNLESS OTHERWISE STATED			
	22.8 74	DATE	DRN W.R.	FINISH	LINEAR ±	ANGULAR	HOLES + .005 - .000
	CHANGE NOTE NO	TRACED IDC		TITLE 3115 BASS SWITCH ASSEMBLY	3RD ANGLE PRJ	DIMS IN	SCALE
	CHECKED	CHECKED WVK			DRG. NO EK 20151		
		CHECKED	 Rupert Neve & Company Ltd.		1974	©	A4

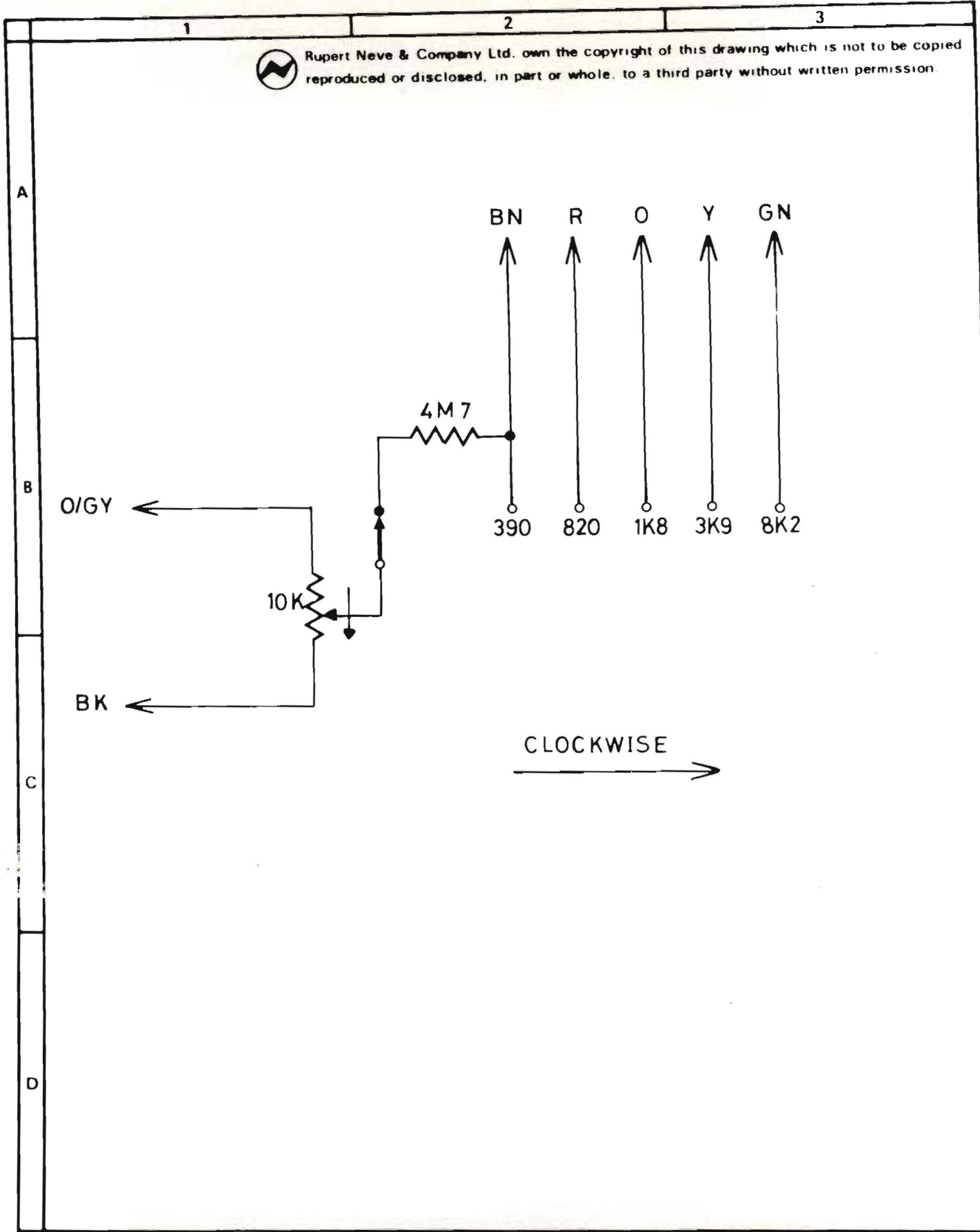
NM7R2H

EK 20151

EK 20152



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1	ISSUE	FIRST USED ON	MATL.	TOL. UNLESS OTHERWISE STATED			
	22 8 74	DATE	DRN. WR	FINISH	LINEAR ±	ANGULAR	HOLES + .005 - .000
	CHANGE NOTE NO	TRACED JDC	CHECKED WVK	TITLE 3115 PRESENCE SWITCH ASSEMBLY	3RD ANGLE PRJ.	DIMS IN	SCALE
	CHECKED	Rupert Neve & Company Ltd.			1974	©	A4

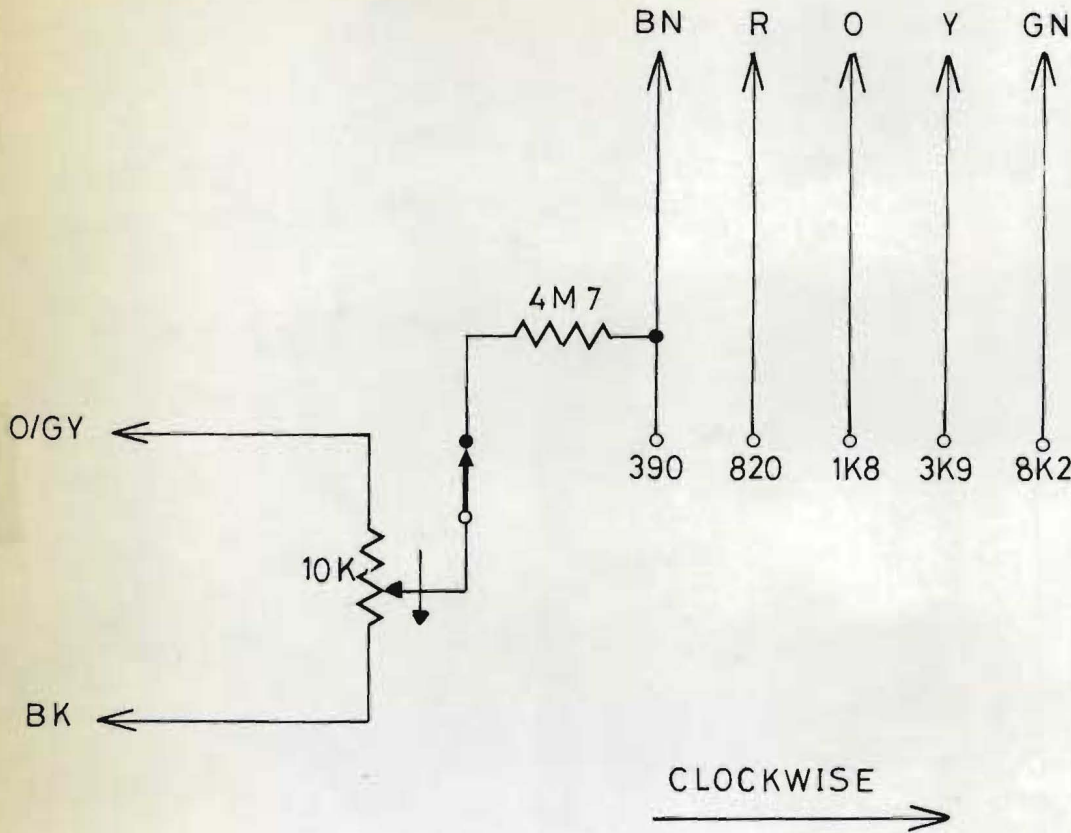
NM7828

EK 20152

EK 20152



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1	ISSUE	FIRST USED ON	MATL.	TOL. UNLESS OTHERWISE STATED		
	22 8 74	DRN. WR	FINISH	LINEAR ±	ANGULAR	HOLES +.005 -.000
	CHANGE NOTE NO	TRACED JDC	TITLE 3115 PRESENCE SWITCH ASSEMBLY	3RD ANGLE PRJ.	DIMS IN	SCALE
	CHECKED	CHECKED WVK		DRG. NO EK 20152		
	CHECKED	Rupert Neve & Company Ltd.			1974	© A4

NM7828

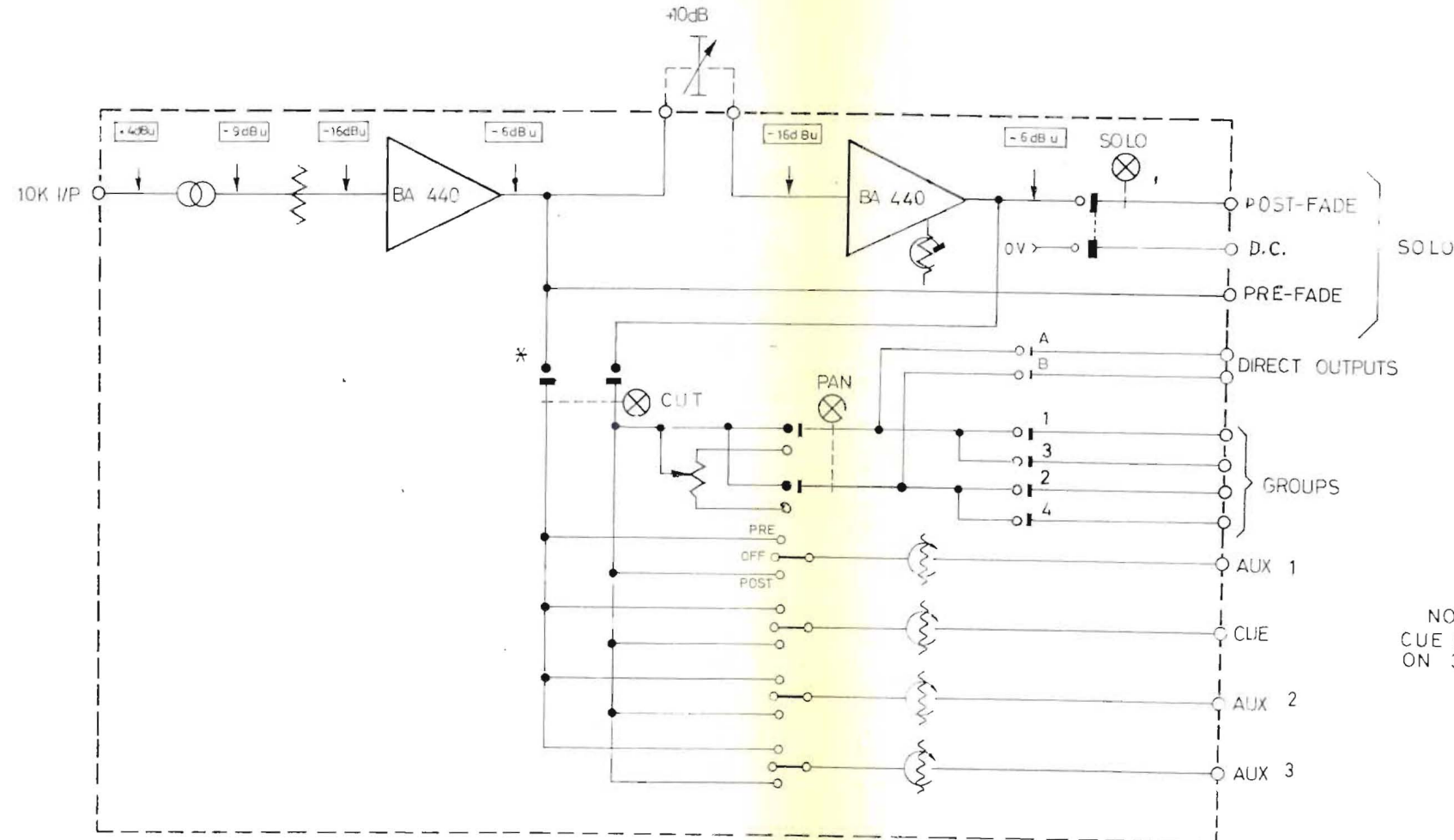
EK 20152

EB 20261  
SEE ALSO: ES 10189 +/A

1 2 3 4 5 6

DRAWING No.  
**EB 20261**

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NOTE  
CUE BECOMES AUX 4  
ON 33726 A

FRONT PANEL LAYOUT ML33726

3	2	1	ISSUE	FIRST USED ON A4236	MATL.	TOL UNLESS OTHERWISE STATED	
26 AUG 77	2 MARCH 77	9 DEC 76	DATE	DRN. JH	FINISH	LINEAR ±	ANGULAR HOLES +0.13 -0
			CHANGE NOTE N°	TRACED NN	TITLE 33726 & 33726 A SWITCHING UNIT	3rd ANGLE PRJ ⊕	DIMS. IN SCALE
		JH	CHECKED			DRG. No. <b>EB 20261</b>	

Rupert Neve & Company Ltd.

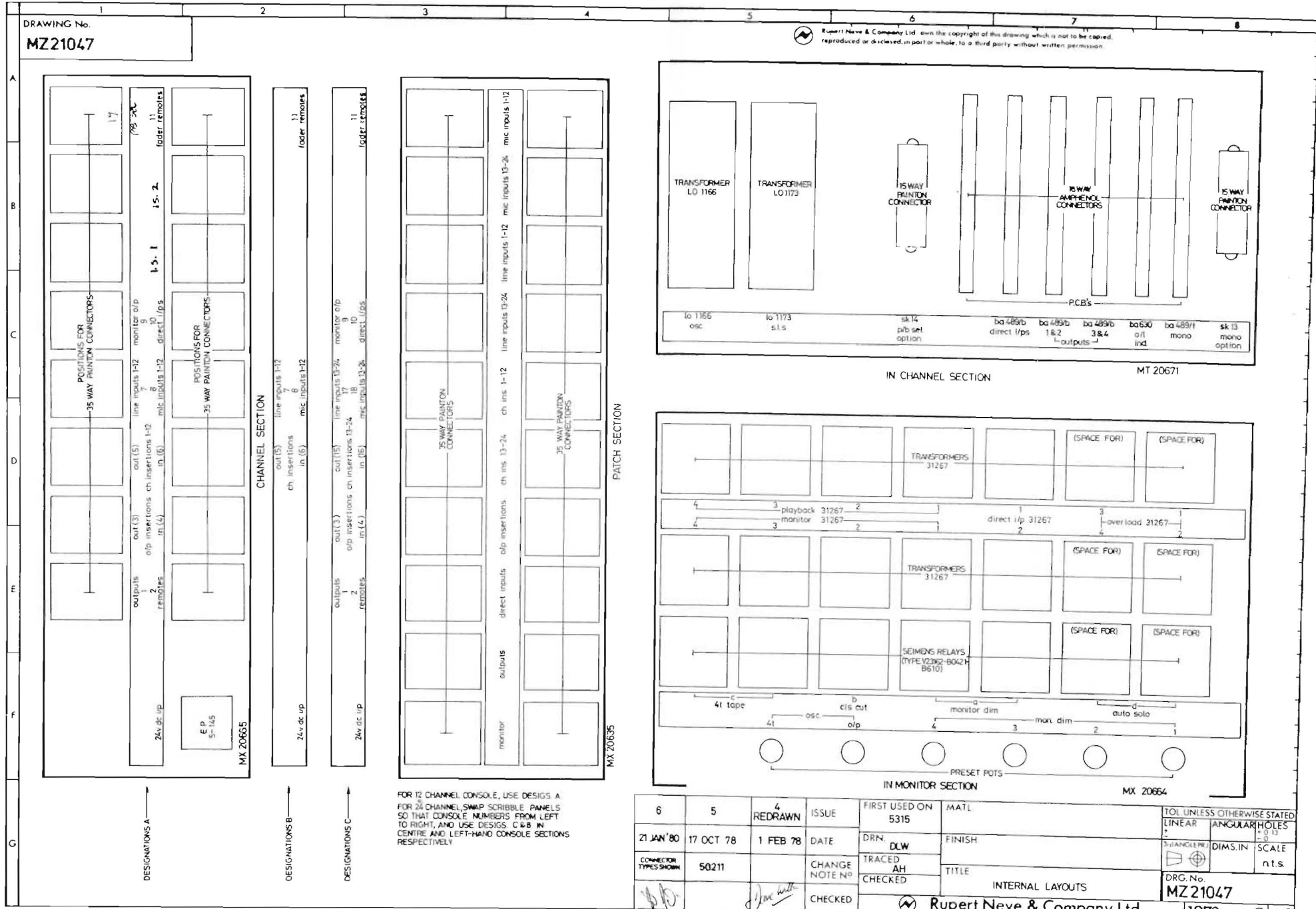
1976 © A3

MY 54665R

EB 20261

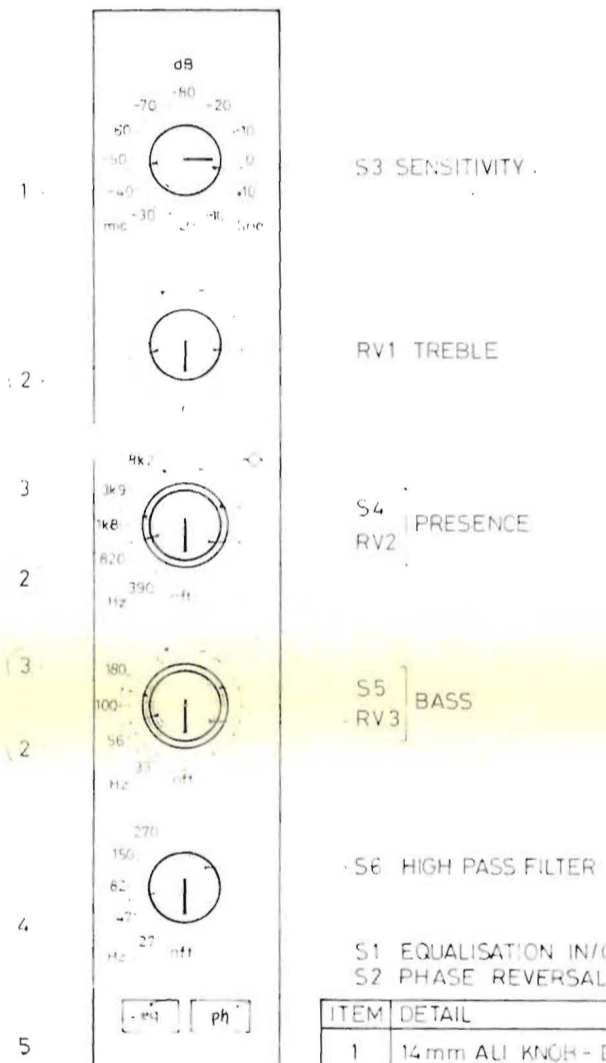


MZ 21047



DRAWING No.  
ML 33115

INFORMATION USED  
BY TECHNICAL HANDBOOKS  
SECTION



ITEM	DETAIL
1	14 mm ALI KNOB - DARK BLUE CAP
2	14 mm ALI KNOB - MEDIUM BLUE CAP
3	18 mm ALI KNOB
4	14 mm ALI KNOB - LIGHT BLUE CAP
5	(ISOSTAT) 10mm CAP - GREY FILLED BLACK

219 (8.62")

35 (1.37")

SIZE CODE 35 DP

4	REDRAWN	ISSUE	A 3677
21 JAN 80	DATE	DESIGN	F J V
CHL KPT	DESIGNED BY	TRACED	ATL
	CHECKED BY	TESTED	

Rupert Neve & Company Ltd.

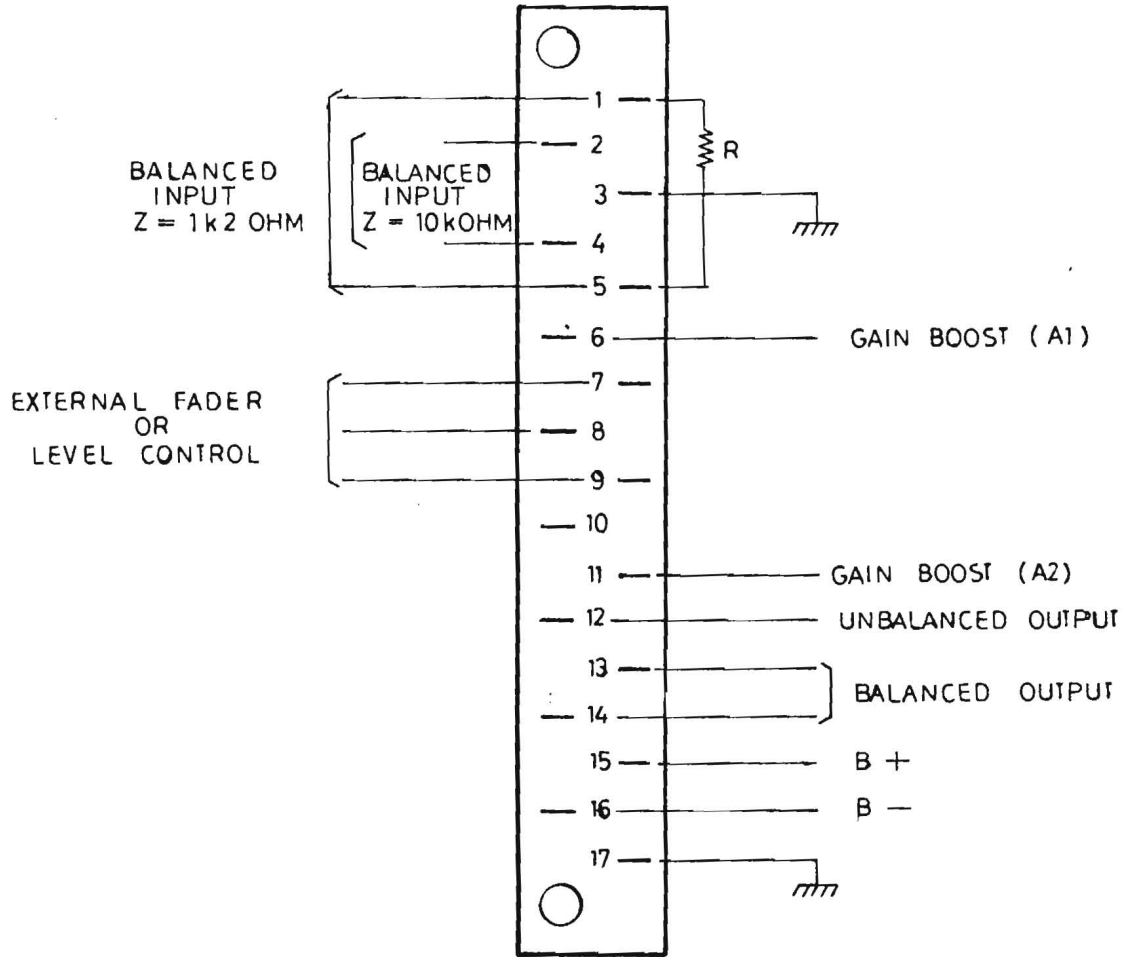
CHAR. GEL. AMPLIFIER 33115  
FRONT PANEL LAYOUT

ML 33115  
1980

A3

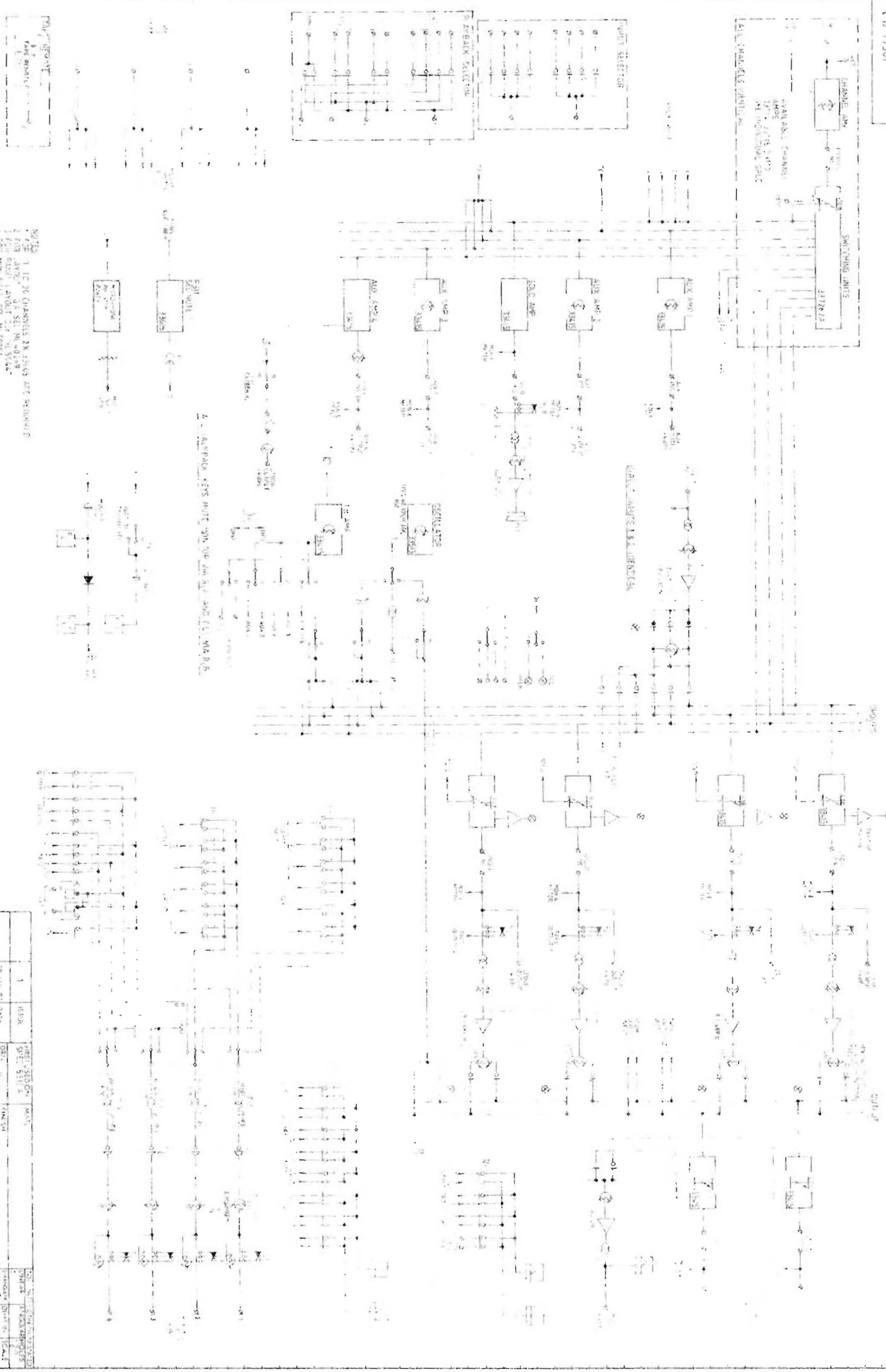
33415/A

REAR CONNECTOR LAYOUT



NOTE: FOR 10kOHM INPUT ONLY  
ADD A 470 RESISTOR AS SHOWN

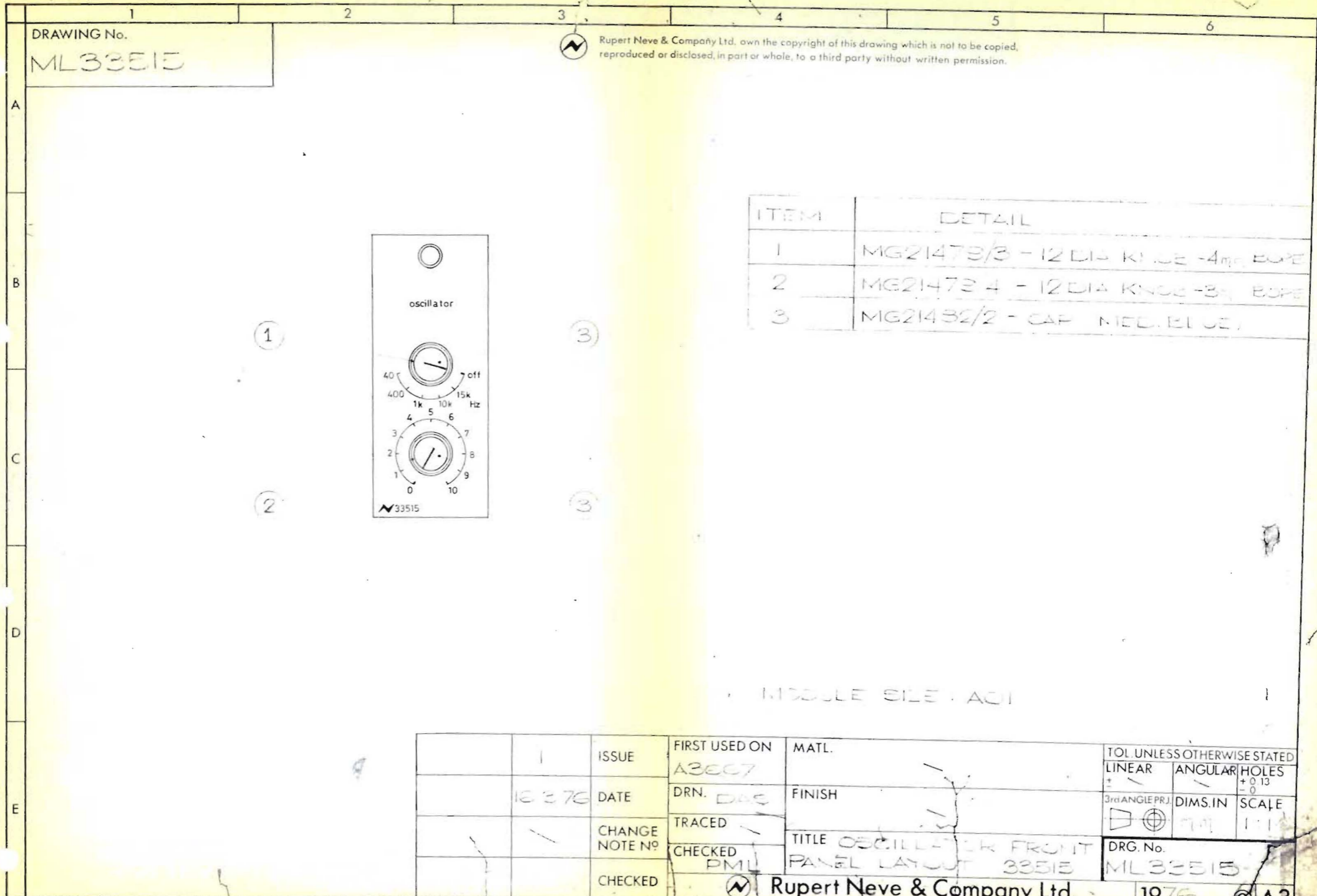
3  
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1  
5  
/A



1	450V	REF. SECTION	DATE	28 JAN 67	DATE	28 JAN 67	BY	W.M.	BY	W.M.
		SPEC. SHEET								
		QUANTITY								
		REVISION								
		PROJECT NO.								
		PROJECT NAME								
		PROJECT ADDRESS								
		PROJECT PHONE								
		PROJECT FAX								
		PROJECT E-MAIL								
		PROJECT WEBSITE								
		PROJECT URL								
		PROJECT CONTACT								
		PROJECT COMMENTS								
		PROJECT APPROVAL								
		PROJECT SIGNATURE								
		PROJECT DATE								
		PROJECT TIME								
		PROJECT COST								
		PROJECT BUDGET								
		PROJECT STATUS								
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		PROJECT POLITICAL								
		PROJECT CULTURAL								
		PROJECT HISTORICAL								
		PROJECT SCIENTIFIC								
		PROJECT TECHNICAL								

ML 33515

OSCILLATOR



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ITEM	DETAIL
1	MG21473/3 - 12 DIA KNOB - 4mm BORE
2	MG21473/4 - 12 DIA KNOB - 3mm BORE
3	MG21432/2 - CAP NED. BLUE

MODULE SIDE - ACU

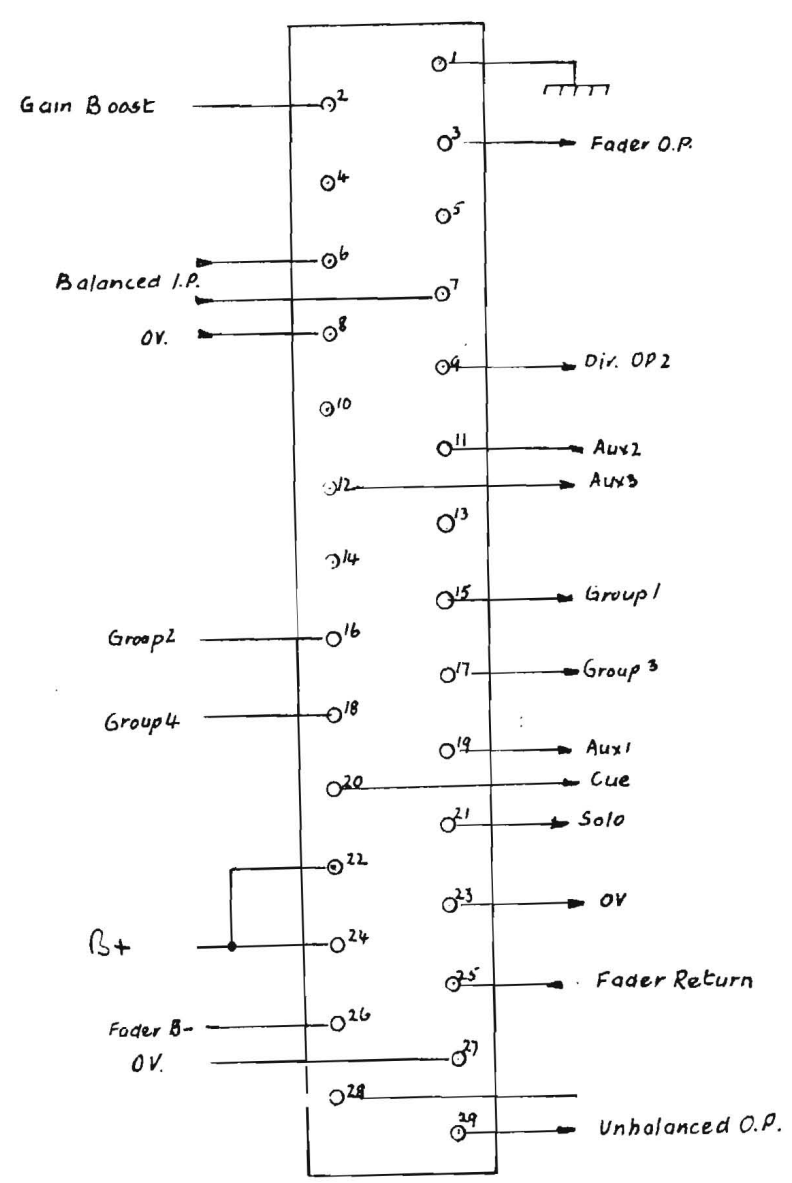
	1	ISSUE	FIRST USED ON	MATL.	TOL UNLESS OTHERWISE STATED	
	1E 376	DATE	DRN. DAE	FINISH	LINEAR	ANGULAR HOLES
		CHANGE NOTE NO	TRACED		3rd ANGLE PRJ	DIMS. IN SCALE
		CHECKED	CHECKED PML	TITLE OSCILLATOR FRONT PANEL LAYOUT 33515		DRG. No. ML33515
		CHECKED		Rupert Neve & Company Ltd.		1976 © A3

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SS 100 H

# GROUP SWITCHING UNIT

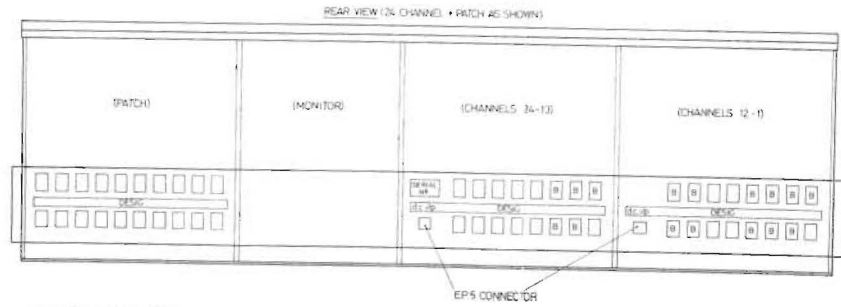
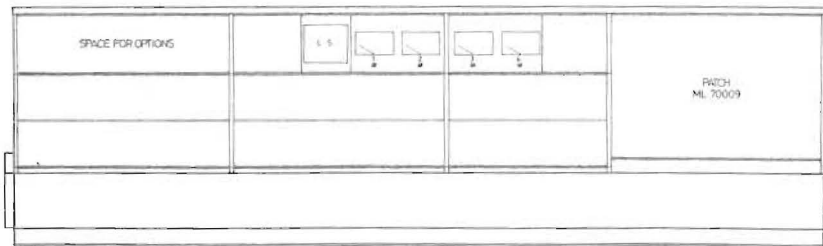
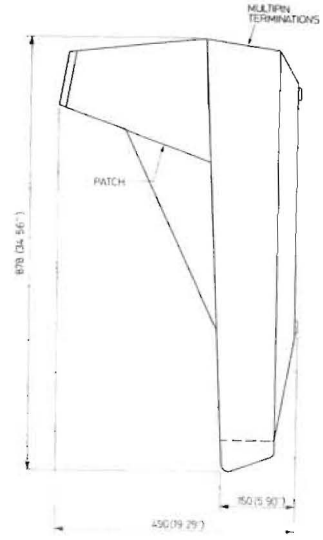
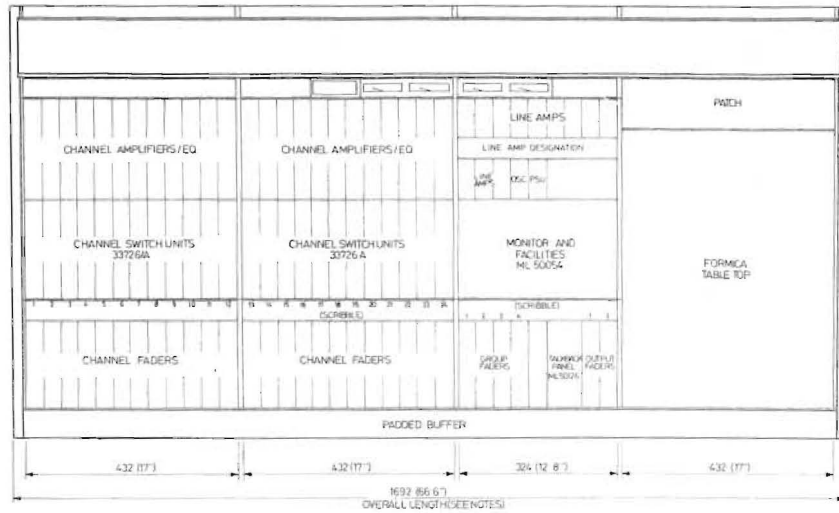
REAR PANEL CONNECTOR 33726A



3  
3  
7  
2  
6  
A

DRAWING No  
ML 40026 SHT 10F2

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FOR CONNECTOR DESIGNATIONS REFER TO MZ 2104  
ALL CONNECTOR POSITIONS TO ACCEPT 35 WAY PANTON EXCEPT WHERE SHOWN B-BLANKING PLATE FITTED

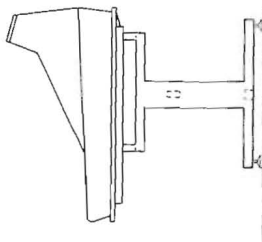
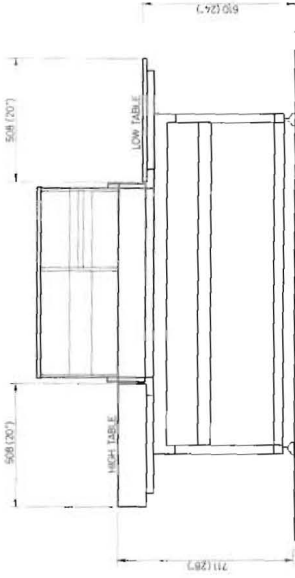
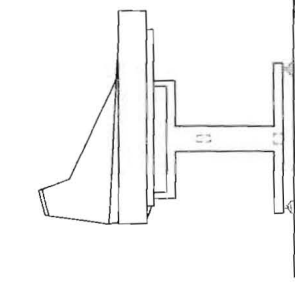
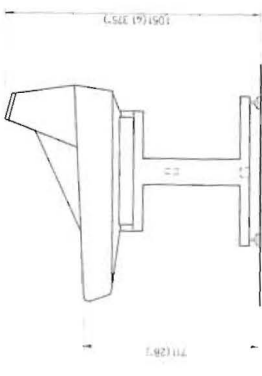
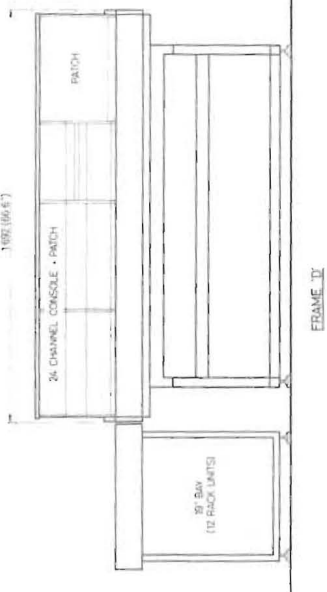
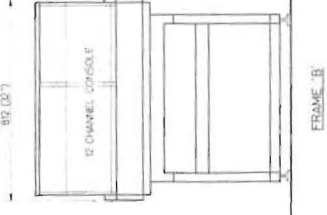
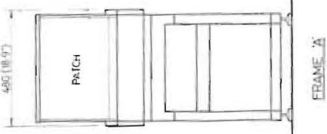
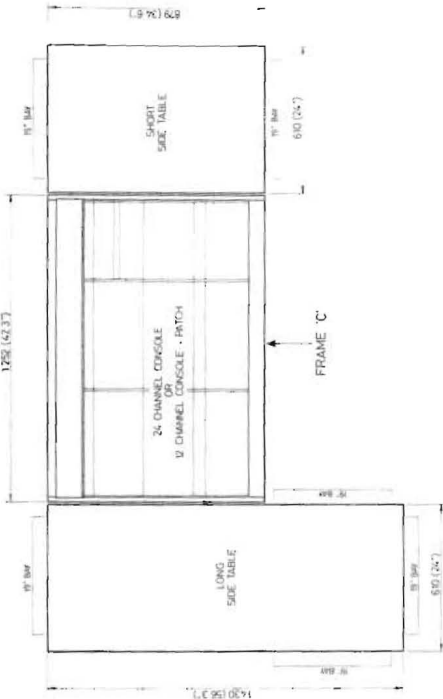
- NOTES:
- FOR GENERAL ASSY DRAWINGS SEE ML 40026 SHT 2
  - BLACK SIMULATED LEATHER FRONT BUFFER
  - BELFORT TRIMWOOD SAPELE TRIM (TOP & SIDES)
  - DOVE GREY FORMICA TABLE TOP
  - METERS MAY BE VU OR PPM (SIFAM 225 (ILLUMINATED))
  - OVERALL LENGTHS - 012 CHANNEL CONSOLE 812 (32")  
012 CHANNEL CONSOLE WITH PATCH 1252 (49' 3")  
012 CHANNEL CONSOLE 1252 (49' 3")  
024 CHANNEL CONSOLE WITH PATCH 1692 (66' 6")
  - FOR OPTIONS SEE EB 10944 SHT 2 & ML 50000
  - FOR CONSOLE BLOCK DIAGRAM SEE EB 10944 SHT 1
  - OVERLOAD LED'S BELOW METERS - RED

6	REDRAWN	ISSUE	FIRST USED ON SPEC 5315	MATL	TOL UNLESS OTHERWISE STATED
21	JAN 80	DATE	DRN: 0 J 0	FINISH	LINEAR ANGULAR HOLES
			TRACED		SCALE
			ADL		1000 1:5
			CHECKED		ORG No
					ML 40026 SHT 10F2
					1980 © A1

ML 40026 10F2

DRAWING NO.  
ML 40026 SH 2 OF 2

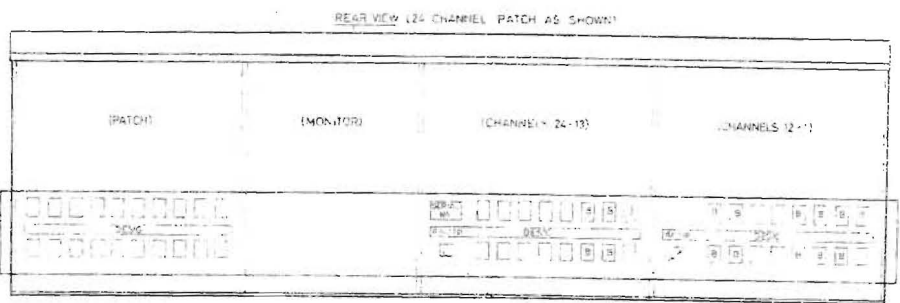
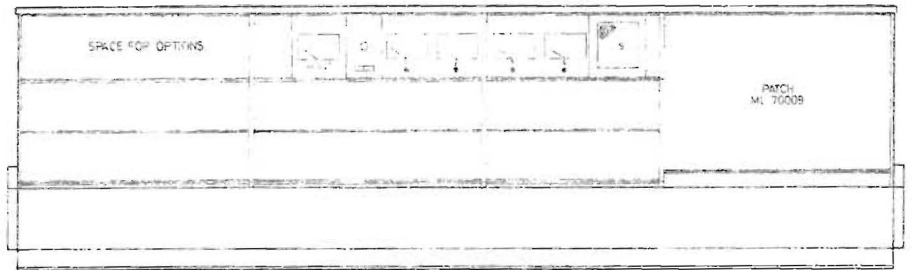
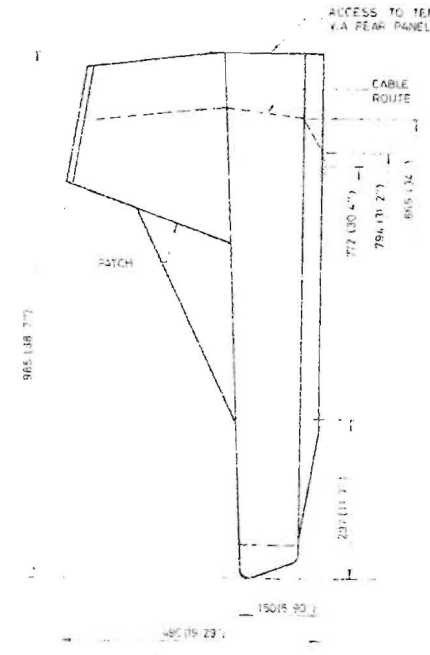
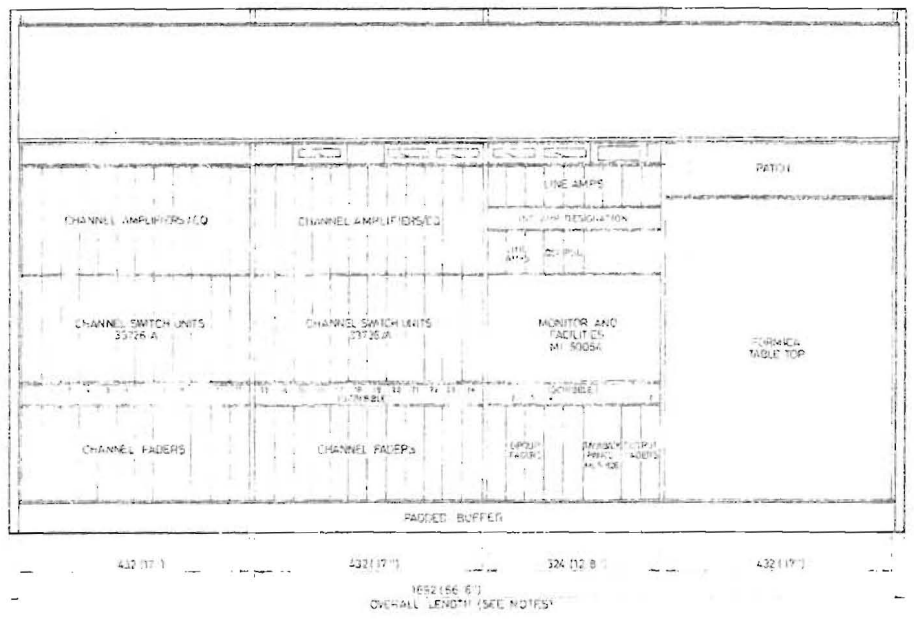
Place Electronic components and wiring in approved slots. Wiring which is not to be secured by the chassis should be secured by a separate support structure or other suitable means.



3	REDRAWN	ISSUE	FIRST USED ON	MATERIAL	DATE	BY	SCALE
2	ISSUE	5/15	5/15	5/15	5/15	5/15	1:10
1	DATE	31 MAY 78	15 DEC 78	DATE	DATE	DATE	DATE
	CHANGE	TRACED	TRACED	TRACED	TRACED	TRACED	TRACED
	NOTE NO.	CHECKED	CHECKED	CHECKED	CHECKED	CHECKED	CHECKED
	TITLE	CONSOLE GENERAL ASSEMBLY					
	CHECKED	Neva Electronics International Ltd.					
	DATE	1978					
	DRAWN	ML 40026 SH 2 OF 2					



DRAWING No.  
ML 40269 SH1 1 OF 2



FOR CONNECTOR DESIGNATIONS REFER TO ME 21047  
ALL CONNECTOR POSITIONS ACCEPT 35 WAY FAINTON EXCEPT WHERE SHOWN  
B-BLANKING PLATE FITTED

- EPS CONNECTOR
- NOTES
- 1 FOR GENERAL ASSY DRAWINGS SEE ML 40269 SH1 1
  - 2 BLACK SIMULATED LEATHER FRONT PADDED
  - 3 BELFORT TRUWOOD SAPELE TRIM (TOP & SIDES)
  - 4 COVE (KEY FORMICA) TABLE TOP
  - 5 METERS MAY BE 1/4" ON P.P.M. (SIPAM 22F ILLUMINATED)
  - 6 OVERALL LENGTHS: 012 CHANNEL CONSOLE 1252 (48' 3")  
012 CHANNEL CONSOLE WITH PATCH 1252 (48' 3")  
014 CHANNEL CONSOLE 1252 (48' 3")  
014 CHANNEL CONSOLE WITH PATCH 1692 (56' 6")
  - 7 FOR OPTIONS SEE EB 11301 & ML 50247
  - 8 FOR CONSOLE BLOCK DIAGRAM SEE EB 11307
  - 9 OVERLOAD V.E.D.'S BELOW METERS - REF.
  - 10 PATCH PANEL FOR 12 CHANNEL CONSOLE IN ML 3008A

REV	DATE	ISSUE	FIRST USED ON	SCALE	TOL. UNLESS OTHERWISE STATED
1	27 JAN 81	16 OCT 80	DATE	DRY 1/10	FINISH
2		CHANGED	TRACED	CMZ	TITLE
3		NOTED	CHECKED		

ML 40269 SH1 1 OF 2

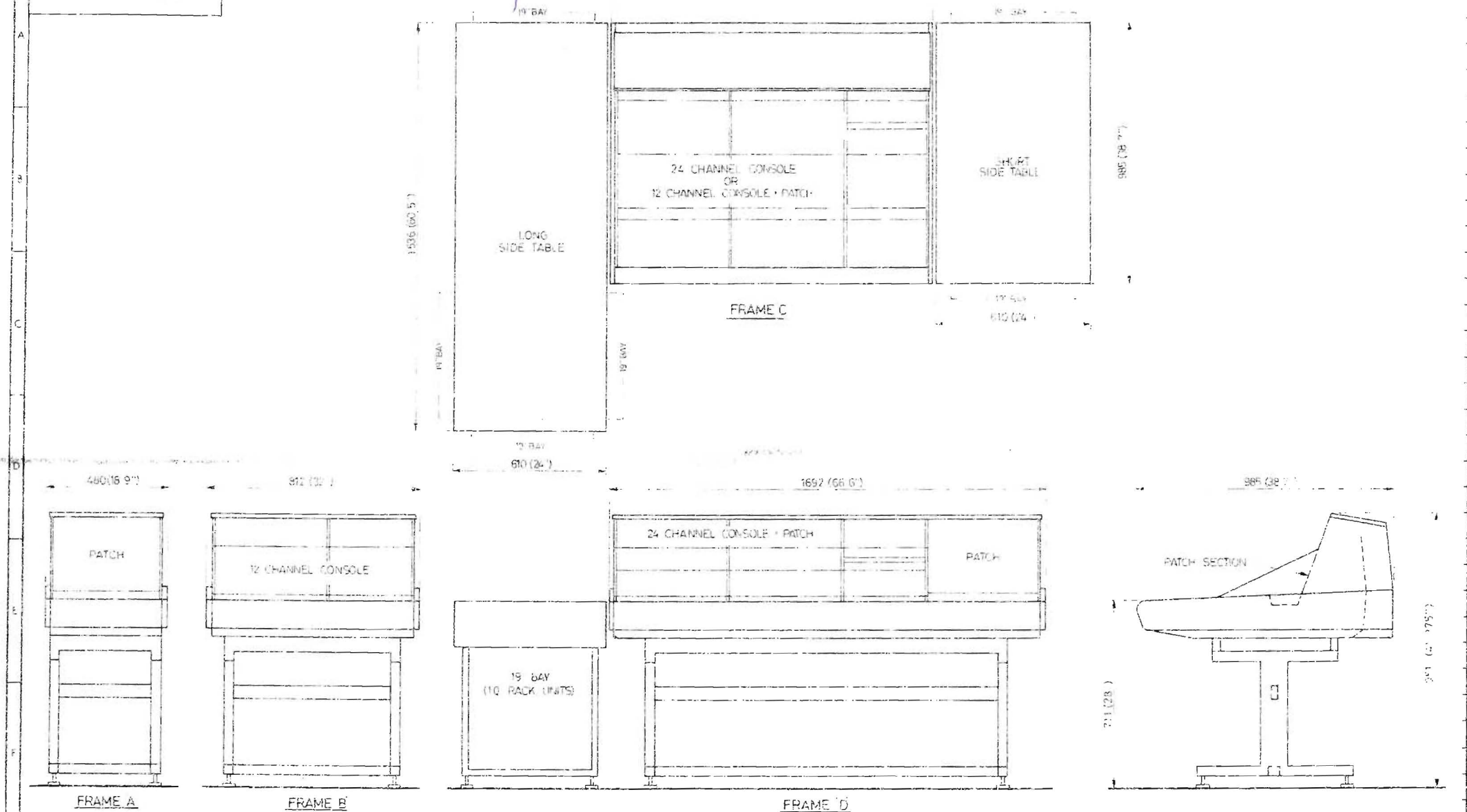
Q12

DRAWING No.  
ML 40269 SHT 2 OF 2

1252 (49 3")

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ML 40269 2 OF 2 711



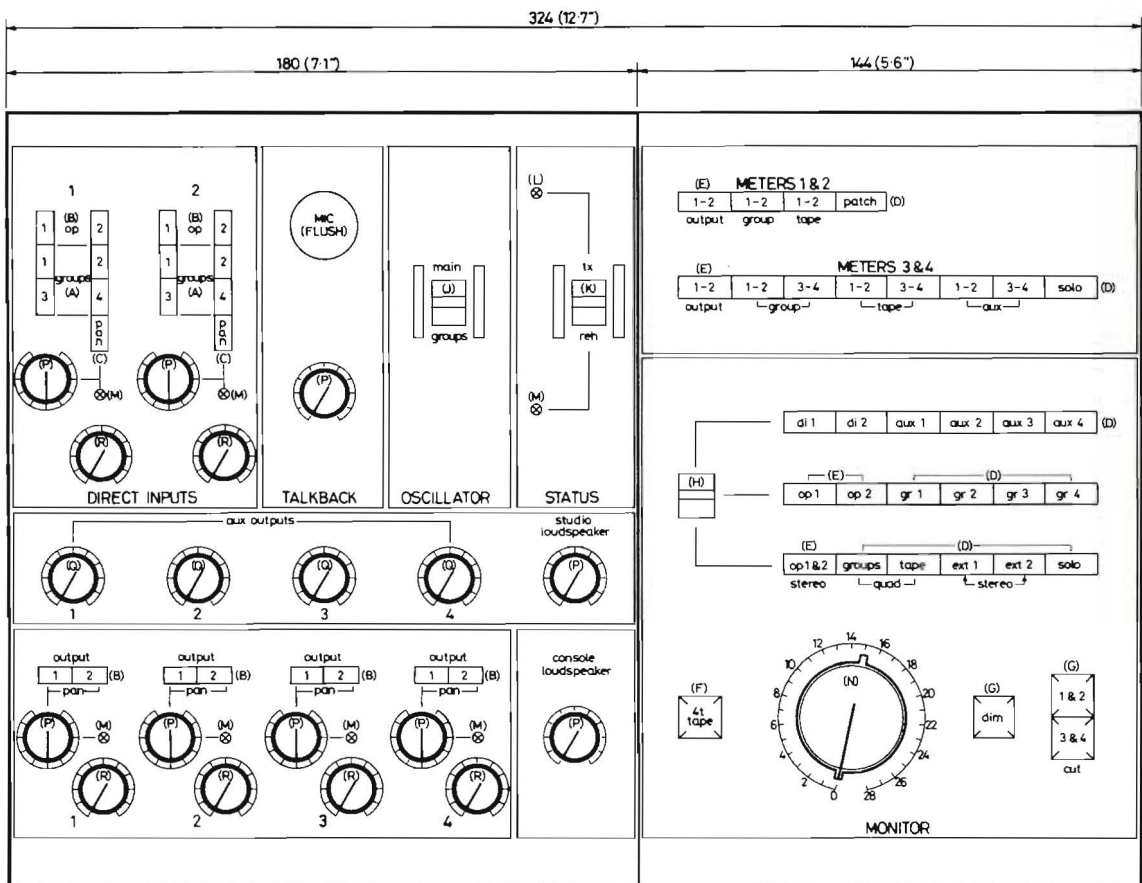
1		A	ISSUE	FIRST USED ON E315 A	DERIVED FROM ML 40026		TOL. UNLESS OTHERWISE STATED	
29 JAN 81	15 OCT '80	DATE	DRN. A.G.B.	FINISH	LINEAR	ANGULAR	HOLES	
		CHANGE NOTE NO.	TRACED A.G.L.	TITLE	±0.13	±0.13	±0.13	
		CHECKED	CHECKED	CONSOLE GENERAL ASSEMBLY	±0.13	±0.13	±0.13	
					DRG. No.	ML 40269 SHT 2 OF 2		
					Neve Electronics International Ltd.		1980	© A2

NY A33452 R

ML 50054

DRAWING No.  
ML50054

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ITEM	DETAIL
A	10 mm PB (ISOSTAT) - GREY FILLED BLACK.
B	10 mm PB (ISOSTAT) - BLACK FILLED WHITE.
C	10 mm PB (ISOSTAT) - WHITE FILLED BLACK.
D	15 mm PB (ISOSTAT) - GREY FILLED RED.
E	15 mm PB (ISOSTAT) - BLACK FILLED RED.
F	12,5 mm PB (TJ ILLUMINATED) - WHITE FILLED BLACK.
G	12,5 mm PB (TJ ILLUMINATED) - RED FILLED WHITE.
H	KEYSWITCH CAP - GREY FILLED RED.
J	KEYSWITCH CAP - GREY FILLED WHITE. } GUARDED
K	KEYSWITCH CAP - RED.
L	LED - RED.
M	LED - GREEN.
N	31 mm KNOB - MEDIUM BLUE INSERT
P	14 mm KNOB - MEDIUM BLUE INSERT.
Q	14 mm KNOB - LIGHT BLUE INSERT.
R	14 mm KNOB - DARK BLUE INSERT.

3	REDRAWN	ISSUE	FIRST USED ON A 5676 SPEC 5375 UPDATE	MATL.	TOL. UNLESS OTHERWISE STATED
12 SEPT 78	DATE	DRN. DJO	FINISH	LINEAR	ANGULAR HOLES
	CHANGE NOTE N°	TRACED AH	TITLE	3rd ANGLE PROJ	DIMS. IN
	CHECKED	CHECKED	MONITOR AND FACILITIES PANEL LAYOUT	mm	SCALE
				DRG. No.	SCALE
				ML50054	1:1
				DRG. No.	
				1978	
				Neve Electronics International Ltd.	A2

29 009 T2

ML 50126



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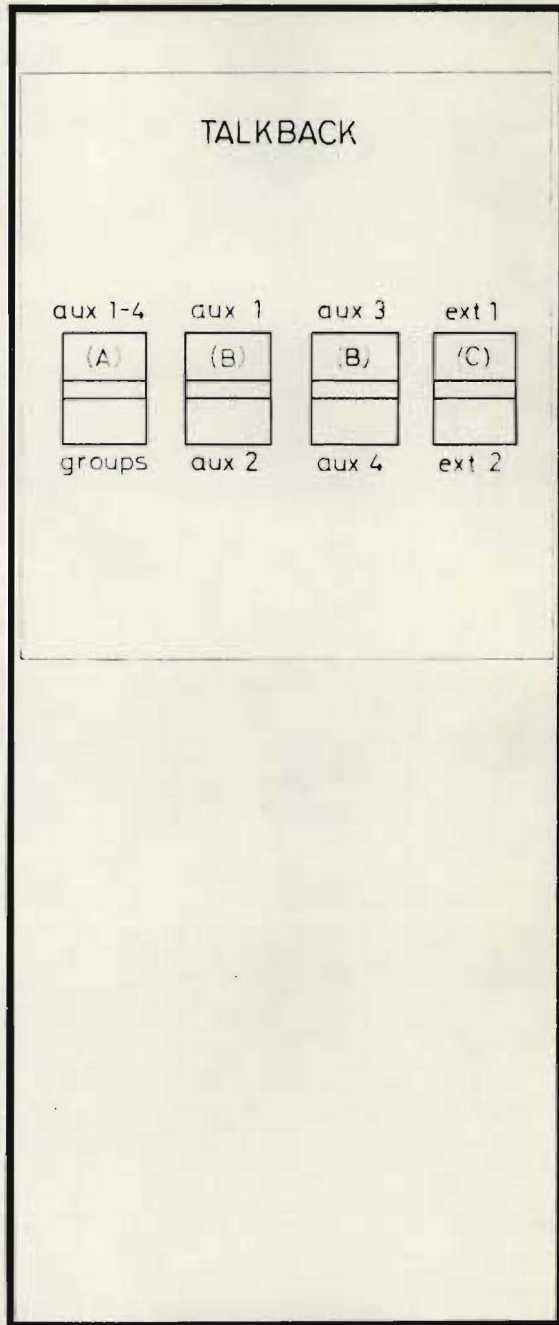
A

B

C

D

ITEM	DETAIL
A	KEYSWITCH CAP. IVORY/RED.
B	" " IVORY.
C	" " GREY/GREEN.



174 (6.87")

71 (2.8")

ML 50126

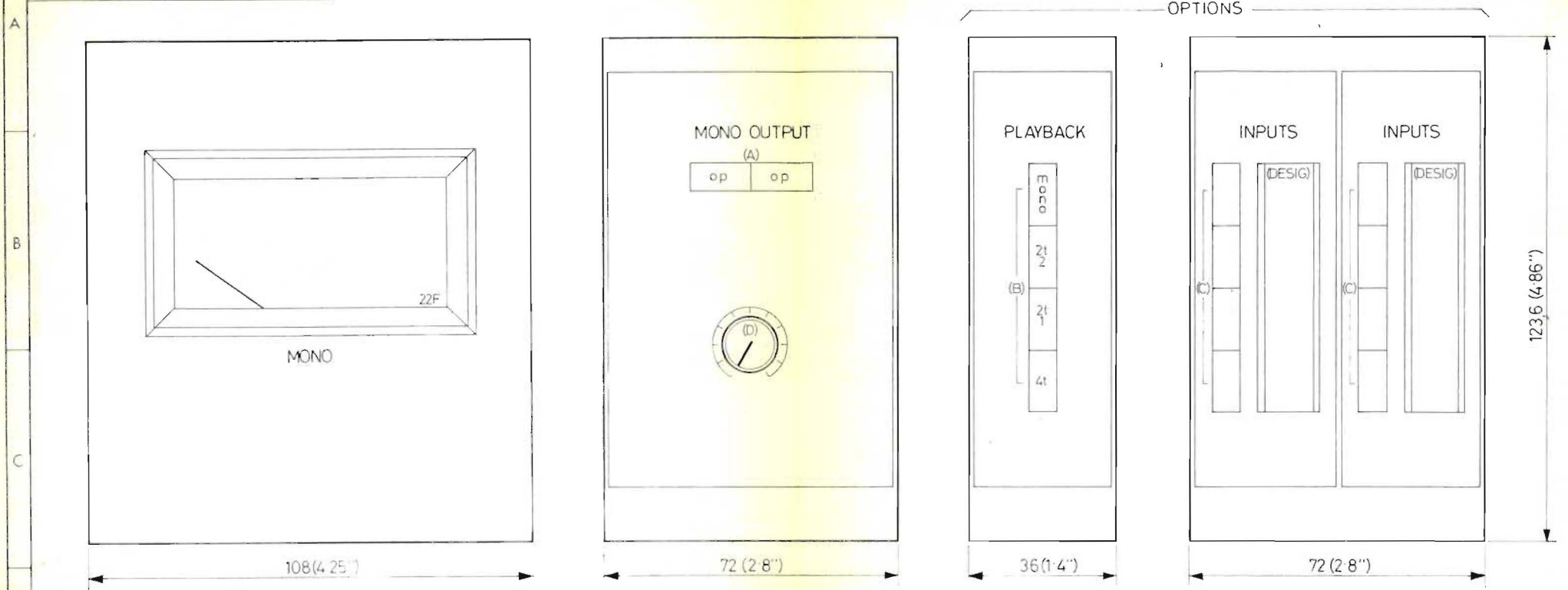
1	ISSUE	FIRST USED ON SPEC 5315	MATL	TOL. UNLESS OTHERWISE STATED			
	27.7.77	DATE	DRN. DLW	FINISH	LINEAR + -	ANGULAR	HOLES +0.13 -0
	CHANGE NOTE No	TRACED NT	CHECKED	TITLE	3rd ANGLE PR	DIMS IN mm	SCALE 1:1
	CHECKED			TALKBACK PANEL	DRG. No ML50126		
				Rupert Neve & Company Ltd. 1977		© A4	

MY 54665R

DRAWING No.

ML 50447

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ITEM	DETAIL
A	15mm (iSOSTAT) CAP - BLACK FILLED WHITE.
E	" " " - GREY FILLED RED.
C	" " " - WHITE.
D	14mm DIA. ALI. KNOB - DARK BLUE INSERT.

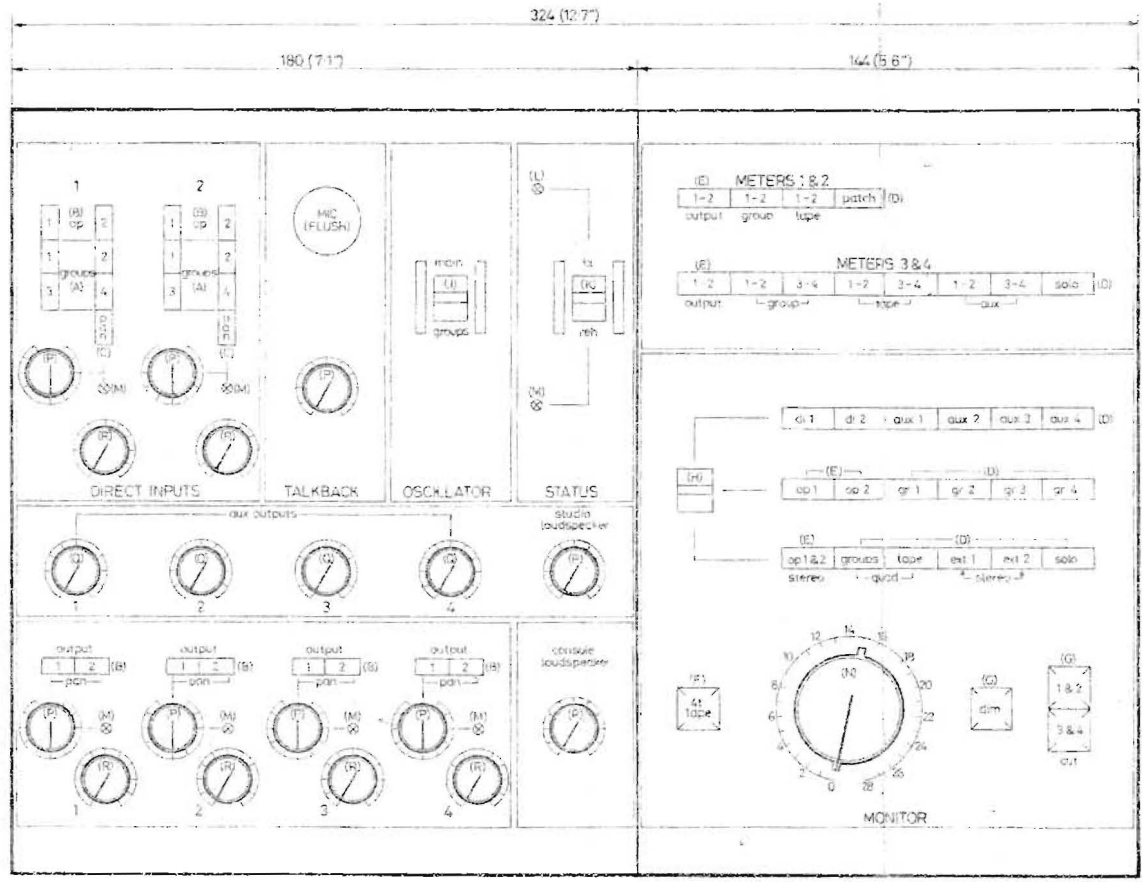
FOR BLOCK DIAG SEE EB 11307

4	3 REDRAWN	SSUE	FIRST USED ON	MATL.	TOL UNLESS OTHERWISE STATED			
			SPEC 5315A		LINEAR	ANGULAR	HOLES	
	26.1.81	10 JAN '80	DATE	DRN. D.J.O.	FINISH	3rd ANGLE PRJ	DIMS. IN	SCALE
			TRACED	CHECKED		mm	1:1	
		CHANGE NOTE NO	TITLE		DRG. No.			
			5315A PANEL LAYOUTS		ML 50447			
		CHECKED	Neve Electronics International Ltd.			1980		

ML 50447

DRAWING No  
ML50054

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ITEM	DETAIL
A	10 mm PB (ISOSTAT) - GREY FILLED BLACK
B	10 mm PB (ISOSTAT) - BLACK FILLED WHITE
C	10 mm PB (ISOSTAT) - WHITE FILLED BLACK
D	15 mm PB (ISOSTAT) - GREY FILLED RED
E	15 mm PB (ISOSTAT) - BLACK FILLED RED
F	12,5 mm PB (TJ ILLUMINATED) - WHITE FILLED BLACK
G	12,5 mm PB (TJ ILLUMINATED) - RED FILLED WHITE
H	KEYSWITCH CAP - GREY FILLED RED
J	KEYSWITCH CAP - GREY FILLED WHITE
K	KEYSWITCH CAP - RED
L	LED - RED
M	LED - GREEN
N	31mm KNOB - MEDIUM BLUE INSERT
P	14mm KNOB - MEDIUM BLUE INSERT
Q	14mm KNOB - LIGHT BLUE INSERT
R	14mm KNOB - DARK BLUE INSERT

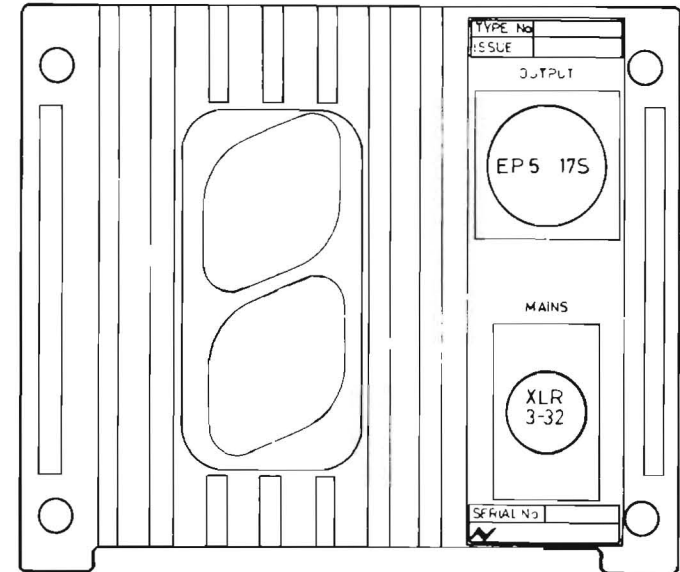
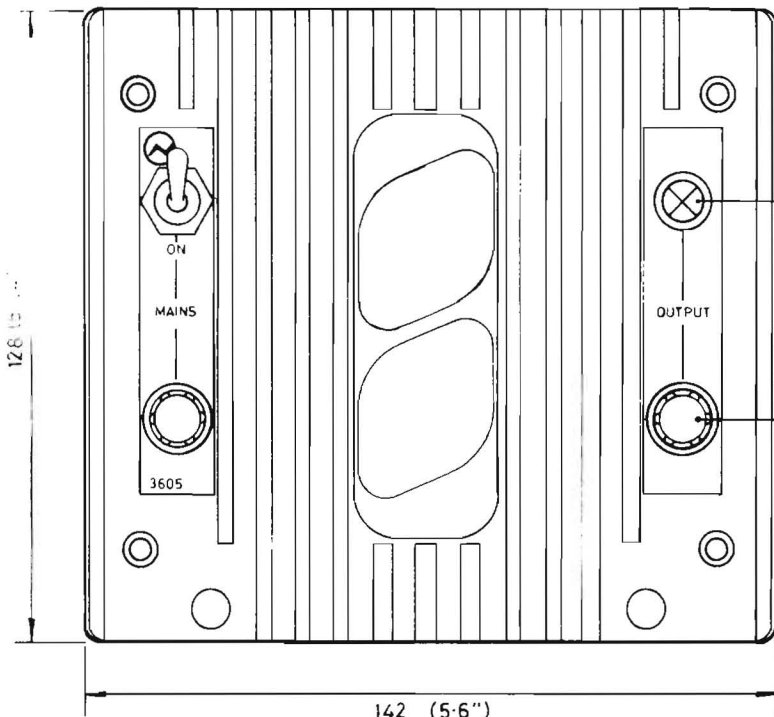
ML 50054

4	3	ISSUE	FIRST USED ON ASSETS SPEC 8315 UPDATE	MATL	TOL UNLESS OTHERWISE STATED LINEAR ANGULAR HOLES
7 JULY 81	12 SEPT 78	DATE	DRN DJO	FINISH	DRN DJO
		CHANGE NOTE NR	TRACED AH	TITLE	DRN DJO
		CHECKED	CHECKED	MONITOR AND FACILITIES PANEL LAYOUT	ML50054
				Neve Electronics International Ltd.	1978 ©A7

DRAWING No.

ML61439

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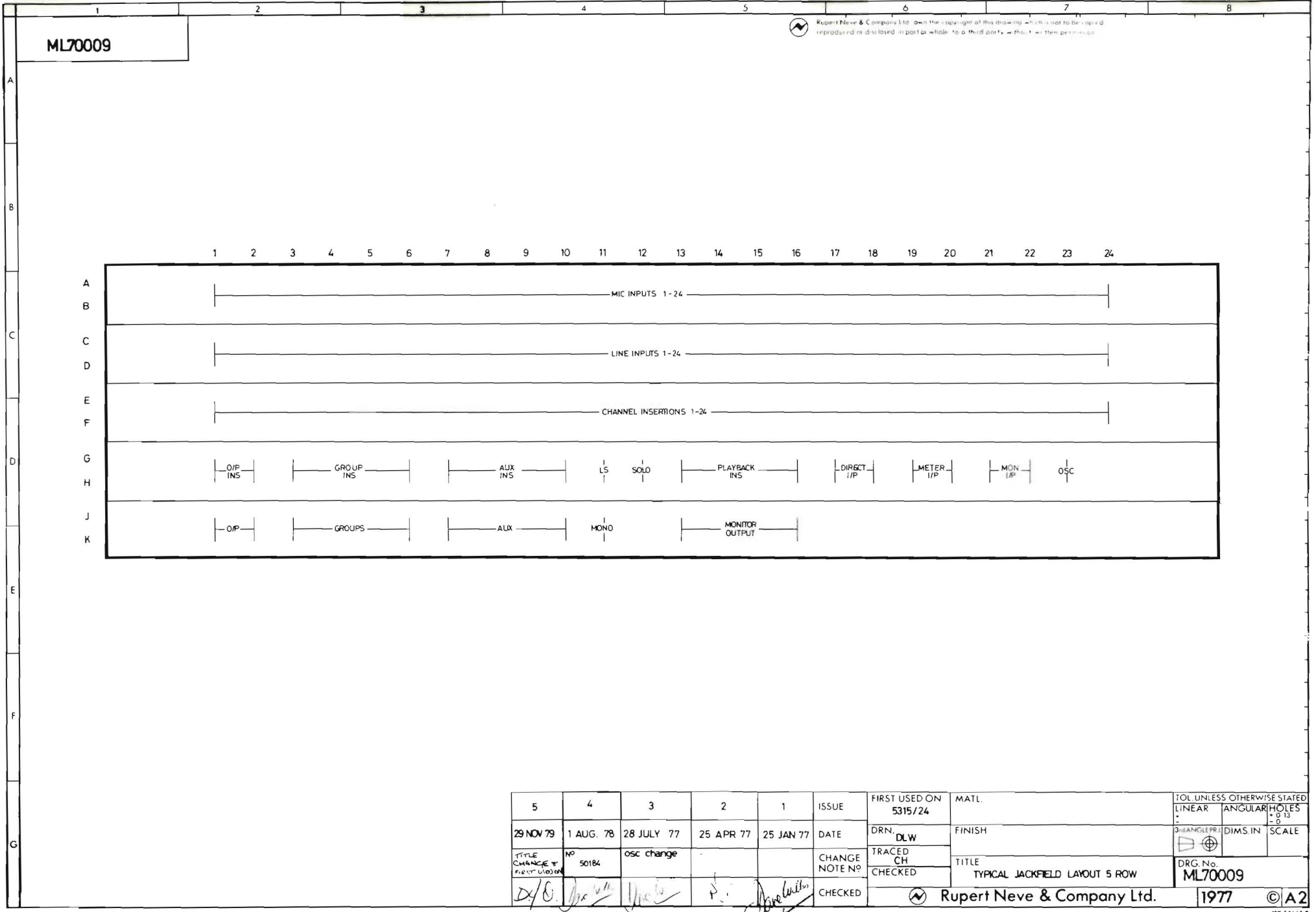
- NOTES:- 1) UNIT SUPPLIED STRAPPED FOR 110/220 V — TAPS AVAILABLE FOR 220/230/240 V A.C.  
 2) THIS PSU IS SUITABLE FOR USE FREE STANDING OR FOR 19" RACK MOUNTING IN A 5-25" HIGH RACK FRAME ASSEMBLY WHICH SUPPORTS 3 SIMILAR PSU MODULES  
 3) HEAT SINK PROTRUDES 29 mm (1-14") FORWARD FROM FRONT & REAR PANELS  
 4) TOTAL DEPTH 398mm (15-67")

1	ISSUE	FIRST USED ON	MATL.	TOL. UNLESS OTHERWISE STATED	
		A3707	/	LINEAR	ANGULAR HOLES
2-4-76	DATE	DRN. SCL	FINISH	+ / -	+0.13 / -0
		TRACED	/	3rd ANGLE PROJ.	DIMS. IN
	CHANGE NOTE NO	CHECKED PML	TITLE	1:1	SCALE
	CHECKED	POWER SUPPLY 3605	DRG. No.		
		Rupert Neve & Company Ltd.	ML 61439		
		1976	© A3		

61439

ML 61439 / SEE ALSO: BA 358; BA 366; FT 10087; EX 10358;

ML 70009



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5	4	3	2	1	ISSUE	FIRST USED ON 5315/24	MATL.	TOL. UNLESS OTHERWISE STATED	
29 NOV 79	1 AUG. 78	28 JULY 77	25 APR 77	25 JAN 77	DATE	DRN: DLW	FINISH	LINEAR	ANGULAR
TITLE CHANGE & FIRST USE		NO 50184	osc change		CHANGE NOTE NO	TRACED CH		DIAMETER	HOLE
D/O. [Signature]		[Signature]	[Signature]	[Signature]	CHECKED		TITLE	SCALE	
								TYPICAL JACKFIELD LAYOUT 5 ROW	
								DRG. No. ML70009	
								1977	
								Rupert Neve & Company Ltd.	
								© A2	

0000 7 13

MY 54005 R



DRAWING No.

ML33515



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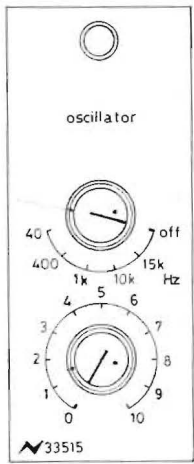
A  
B  
C  
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E

①

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③

③



ITEM	DETAIL
1	MG21473/3 - 12 DIA KNOB - 4mm BORE
2	MG21473/4 - 12 DIA KNOB - 3mm BORE
3	MG21432/2 - CAP NICKEL BRUSH

MIDDLE SIDE VIEW

	1	ISSUE	FIRST USED ON	MATL.	TOL UNLESS OTHERWISE STATED		
			A3007		LINEAR	ANGULAR	HOLES
	18/3/76	DATE	DRN. DAE	FINISH	+0.13		+0.13
		CHANGE NOTE NO	TRACED		3rd ANGLE PRJ.	DIMS. IN	SCALE
			CHECKED PML			T.R.	1:1
		CHECKED			TITLE OSCILLATOR FRONT PANEL LAYOUT 33515		DRG. No. ML33515
				Rupert Neve & Company Ltd.	1976	© A3	

M L 3 3 5 1 5

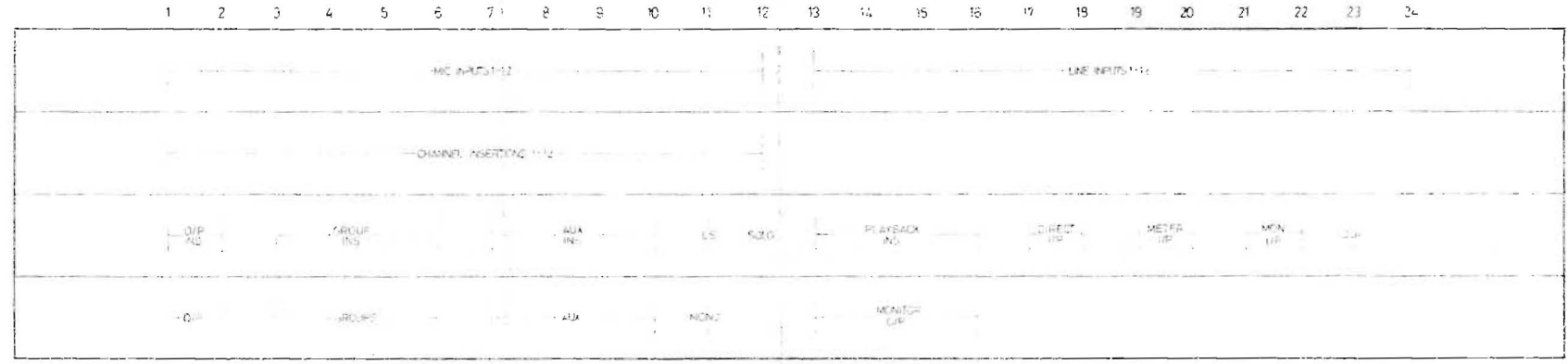


1 2 3 4 5 6 7 8

DRAWING No.  
ML 70009/A

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A  
B  
C  
D  
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F  
G



1	ISSUE	FIRST USED ON	MATL.	TOL. UNLESS OTHERWISE STATED:	
29 NOV 79	DATE	5315/12	FINISH	LINEAR	ANGULAR
	CHANGE NOTE NP	DRN. DJD		HOTES	HOTES
	CHECKED	TRACED JAS	TITLE	DIAMETERS	DIAMS IN
		CHECKED	TYPICAL JACKFIELD LAYOUT 4 ROW	SCALE	
				DRG. No.	ML 70009/A
				1979	© A2

ML 70009/A