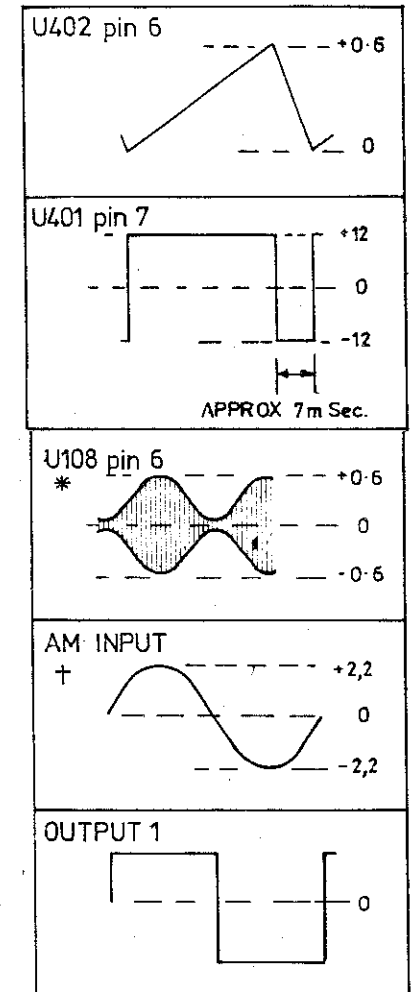


ISS	C/N	DATE	© COPYRIGHT 1981	BWD INSTRUMENTS PTY. LTD.	MELBOURNE AUSTRALIA
15	124	2-10-76	BWD INSTRUMENTS P/L	TITLE:	CIRCUIT DIAGRAM
14	156	1-12-81			POWER SUPPLIES
15	70/86	2-4-86			603B MINI-LAB
R	132/86	7/7/86			
SCALE :			TOL. : 0.2mm unless specified.	DRAWN	CHECKED
				APP'D	DRG. No: 1355
					SHT. OF

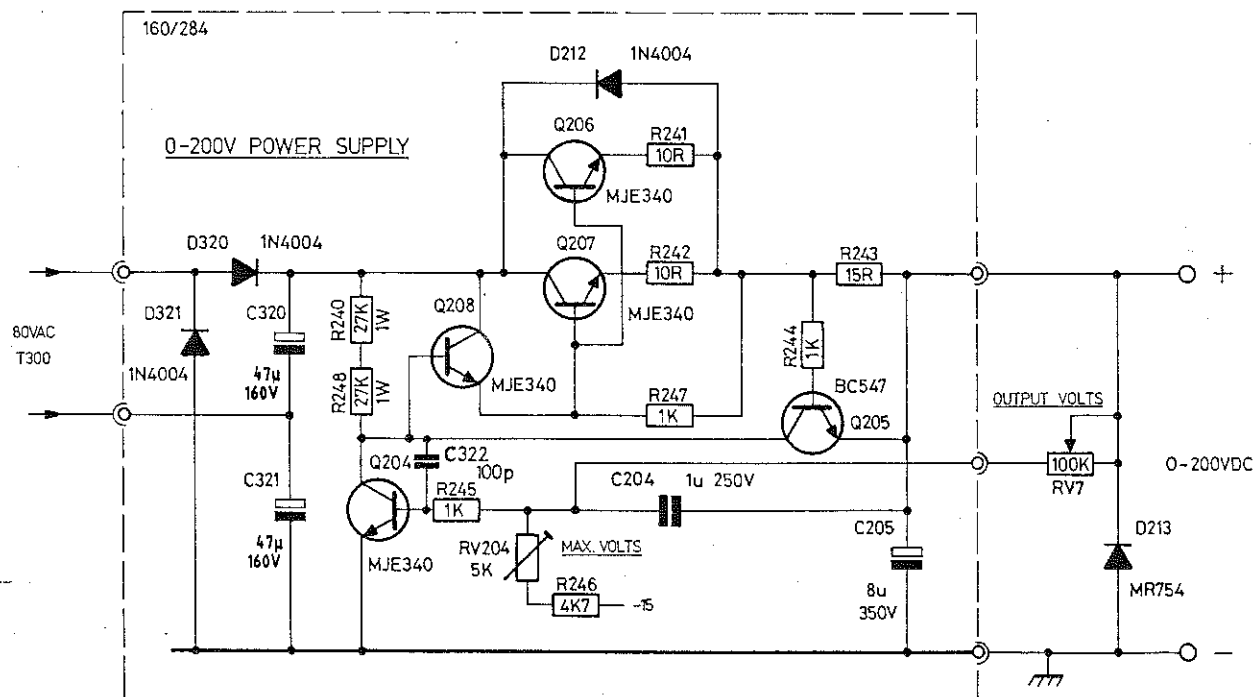
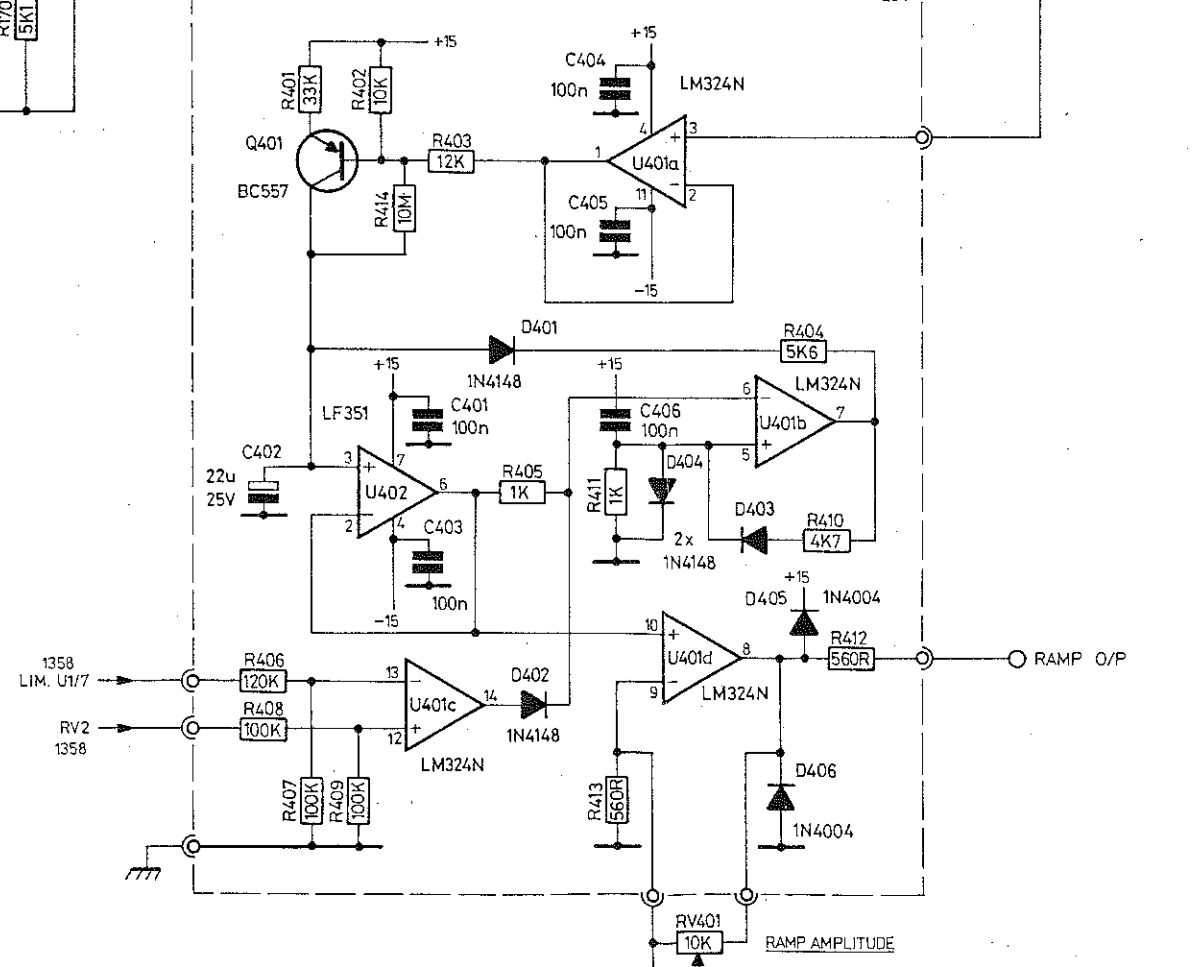
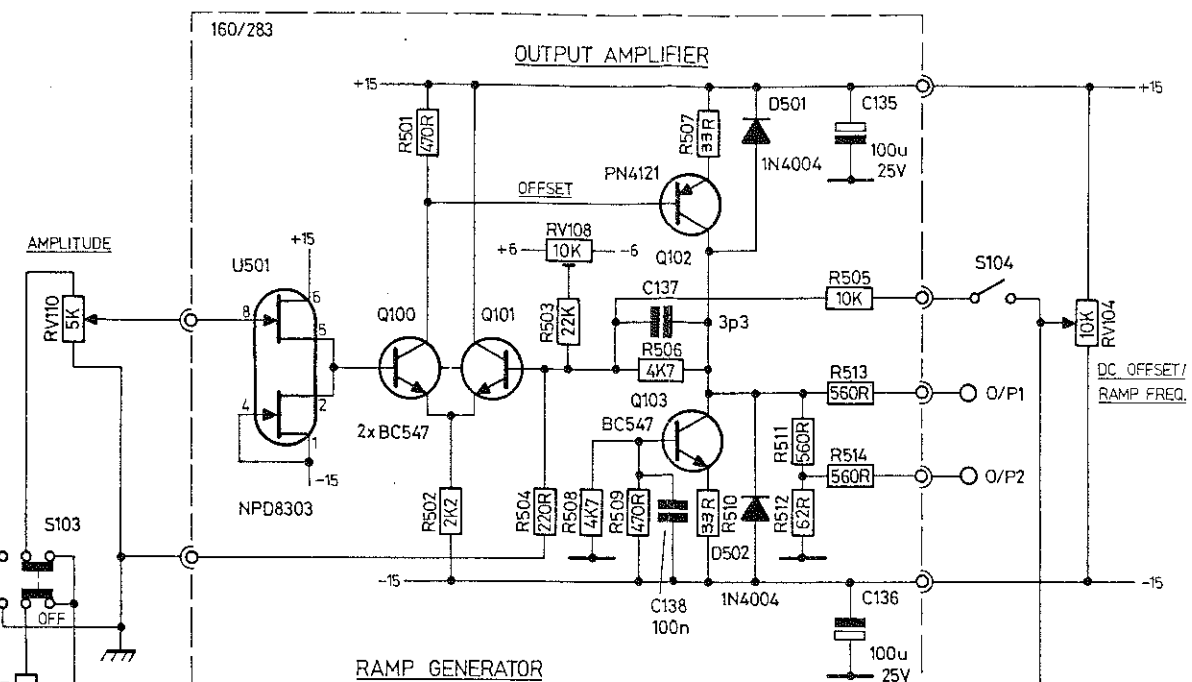
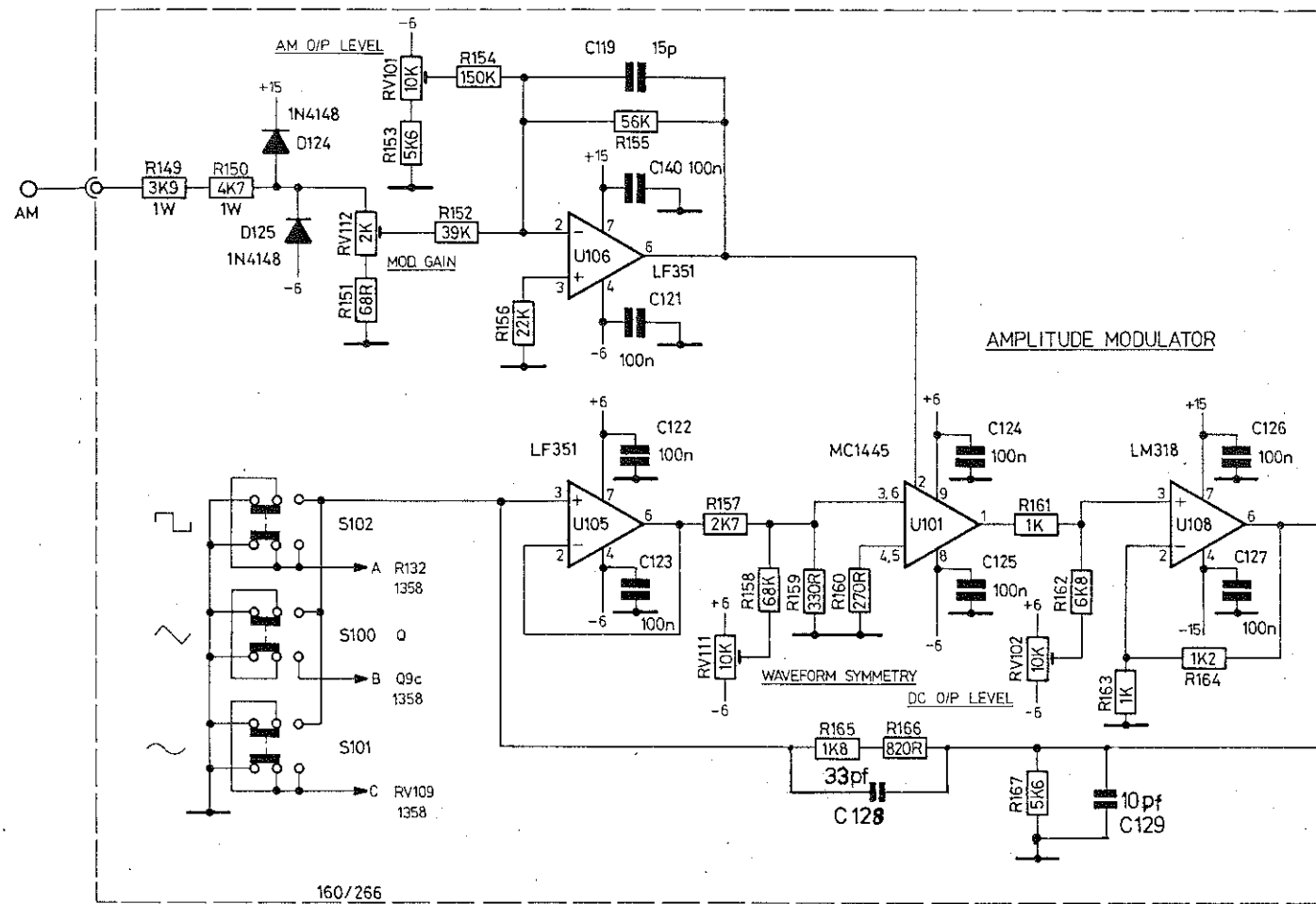
RV101 SET AM OUTPUT LEVEL
 RV102 SET DC OUTPUT LEVEL (AM)
 RV104 DC OFFSET CONTROL / RAMP FREQ.
 RV108 SET ZERO OFFSET (OUTPUT AMP)
 RV110 OUTPUT LEVEL CONTROL (OUTPUT AMP)
 RV111 WAVEFORM SYMMETRY (AMPLITUDE MODULATOR)
 RV112 MODULATION GAIN (AMPLITUDE MODULATOR)
 RV204 SET MAX. VOLTAGE (0-200V)
 RV401 AMPLITUDE CONTROL (REAR RV4)
 RV7 VOLTAGE CONTROL (0-200V)

		POS'N SHOWN
S100	WAVEFORM SELECTOR (TRIANGLE)	OFF
S101	WAVEFORM SELECTOR (SINE)	OFF
S102	WAVEFORM SELECTOR (SQUARE)	ON
S103	AMPLITUDE MODULATOR ON-OFF	OFF
S104	DC OFFSET ON/OFF (REAR RV104)	OFF



* Only obtained if modulating waveform is present and is approx. 1/10th of the frequency of the generator.

† Must be supplied externally. A 39K resistor from 6,3VAC to AM input will suffice.



ISS	C/N	DATE	© COPYRIGHT 1981	BWD INSTRUMENTS P/L	TITLE:	MELBOURNE AUSTRALIA
17	124	6-10-81			CIRCUIT DIAGRAM	
14	194	16-4-82			200V P/SUPPLY, GENERATORS & O/P AMPLIFIER	
15	42/88	8-6-83			603B MINI-LAB	
16	75/83	25-10-83				
18	87/84	20-8-84				
TOL. ±0.2mm unless specified.			DRAWN	CHECKED	APP'D	SHT. OF
DRG. No. 1357						

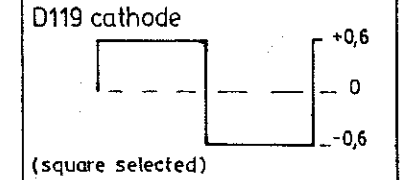
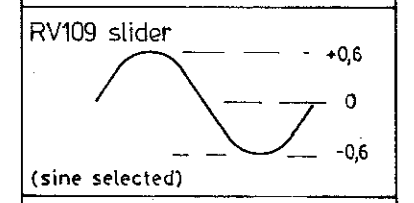
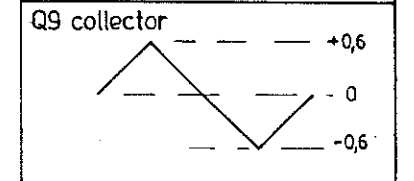
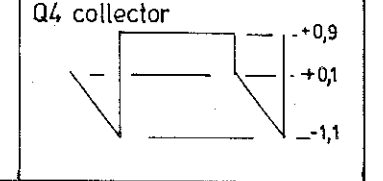
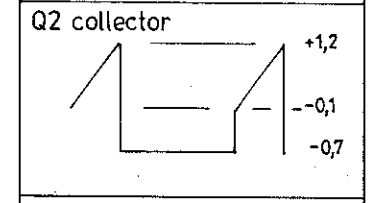
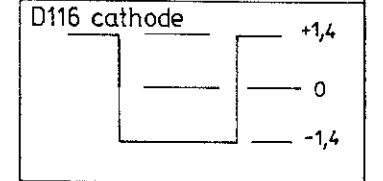
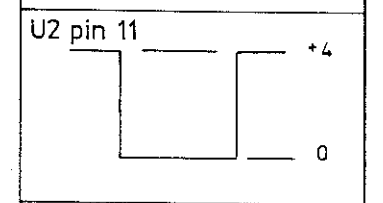
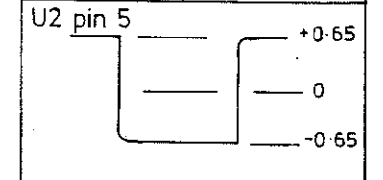
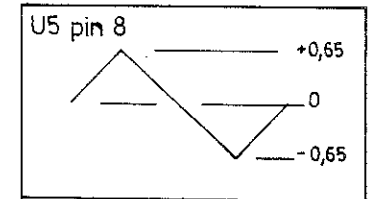
RV1 SET MAX. FREQUENCY
 RV2 FREQUENCY CONTROL
 RV3 SET MIN. FREQUENCY
 RV4 SYMMETRY (GANGED WITH RV401)
 RV5 SET 1:1 SYMMETRY

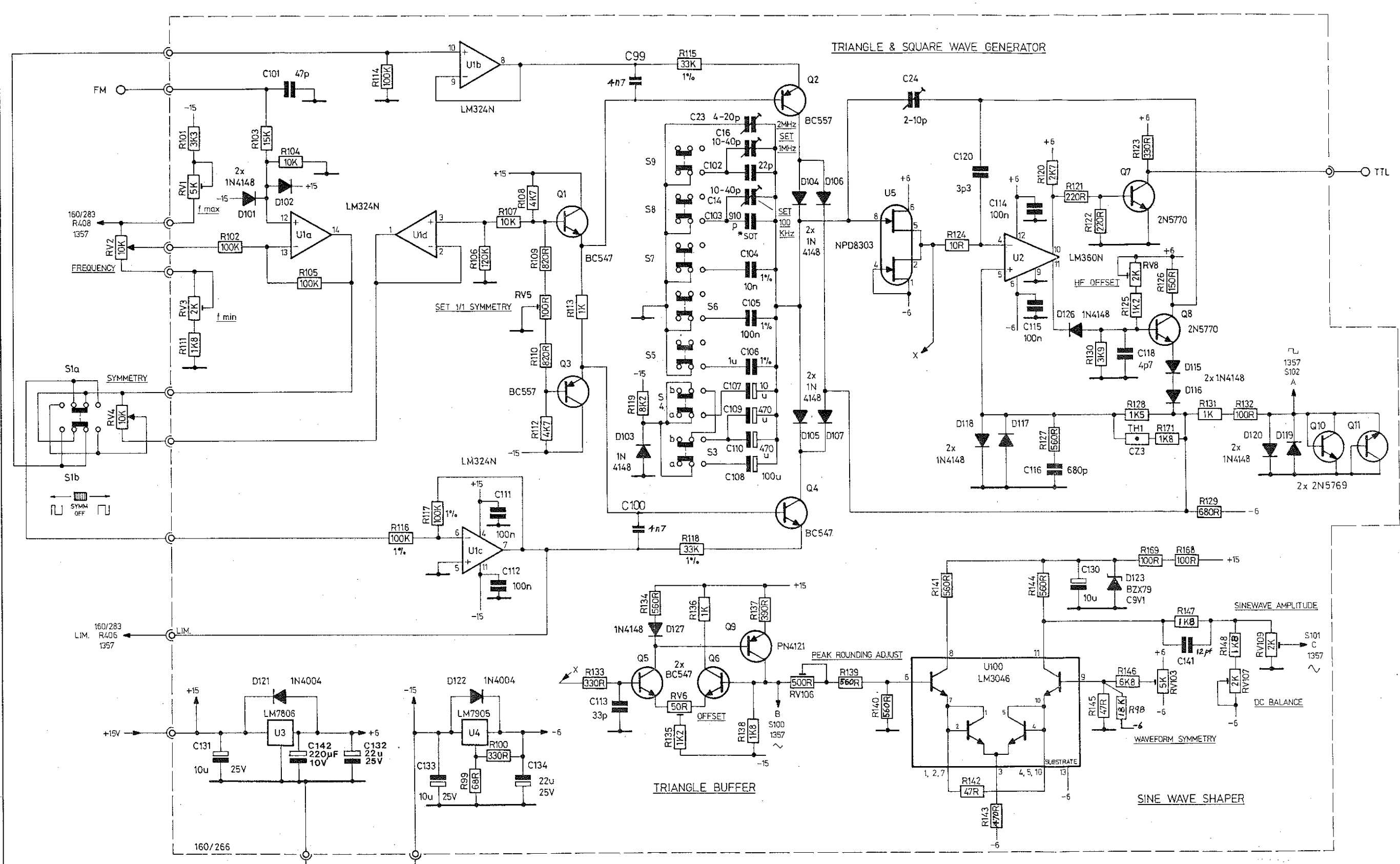
RV103 WAVEFORM SYMMETRY (SINE CONV.)
 RV106 PEAK ROUNDING ADJUST (SINE CONV.)
 RV107 SET DC OUTPUT LEVEL (SINE CONV.)
 RV109 SET SINE AMPLITUDE (SINE CONV.)

C14 SET 100KHz
 C16 SET 1MHz
 C23 SET 2MHz
 C24 COMPENSATION CAPACITOR

S1 VARIABLE SYMMETRY POS'N SHOWN 1:1 FIXED
 S3-9 FREQUENCY RANGE x 10KHz

RV6 TRIANGLE BUFFER OFFSET ADJUST
 RV8 HIGH FREQ. OFFSET ADJUST





ISS	C/N	DATE	© COPYRIGHT 1981	BWD INSTRUMENTS PTY. LTD.	MELBOURNE AUSTRALIA
13	124	12.10.81	BWD INSTRUMENTS P/L	TITLE:	CIRCUIT DIAGRAM
14	193	16.4.92			FUNCTION GENERATOR
15	254	12.10.92			603B MINI-LAB
16	75/83	25.10.83			
18	37/84	20.8.84			

SCALE	:	DRAWN	CHECKED	APP'D	DRG. No: 1358	SHT. OF
TOL.	: 0.2mm unless specified.					

* SOT - Select on test



BWD INSTRUMENTS PTY. LTD.

MANUAL CHANGE INFORMATION FOR MODEL BWD 603B

FROM SERIAL NO.	ISSUE	DATE	FROM SERIAL NO.	ISSUE	DATE
50121	13	16.12.81	53349	17	25-10-83
	14	23.4.82		18	20/08/84
	15	12.10.82	57591	20	1/4/86
52526	16	7.6.83			

Issue	Sect.	Page	Cct.	A M E N D M E N T
13	ALL		ALL	New handbook and improved circuit
14	7	1		RV8 added to Table
14	7	5		Section 7.13 altered to include adjustment of RV8
14	7	9		Diagram changed to suit new PC board
14	7	11		Diagram changed to suit new PC board
14	11	1	1358	R99 & R100 added
14	11	1	1358	R106 changed from 150K to 120K
14	11	1	1358	R125 changed from 2K2 to 1K2
14	11	1	1358	R134 changed from 390Ω to 560Ω
14	11	1	1358	R140 changed from 470Ω to 680Ω
14	11	2	1358	RV6 changed from 1K to 50Ω
14	11	2	1358	RV8 added
14	11	2	1358	C135 changed to C141 (number was used twice)
14	11	3	1358	D127 added
14	11	3	1358	U4 changed from LM7906 to LM7905
14	11	5	1357	R151 changed from 680Ω to 68Ω
14	11	5	1357	R503 changed from 33K to 22K
14	11	6	1357	RV112 changed from 1K to 2K
14	11	6	1357	C128 changed from 39pf to 47pf
14	11	6	1357	C129 changed from 22pf to 18pf
14	11	6	1357	C137, C138, C406 added
14	11	6	1357	C120 changed to C140 (number was used twice)
15	11	1		R127 changed from 270Ω to 560Ω
15	11	1		R128 changed from 3.3K to 1.5K
15	11	1		Add R171 1K8 1/4W 5% MF
15	11	2		C116 Changed from 1mF to 680pF
15	11	2		C117 Deleted
15	11	2		C141 Changed from 10pF to 3.2pF
16	11	6	1357	Add C322 100pf 600V 5% N750 CDS
17	11	6	1357	Delete C128 and C129
17	11	3	1358	Add Q10 and Q11 (2N 5769)
18	11	6	1357	C128 added (33pF)
18	11	6	1357	C129 added (10pF)
18	11	5	1357	R507 & R510 changed from 27Ω to 33Ω
18	11	2	1358	C99 & C100 added (0.0047μF)
18	11	1	1358	R98 added (18K)
18	11	1	1358	R139 changed from 470Ω to 560Ω
18	11	1	1358	R140 changed from 680Ω to 560Ω
18	11	1	1358	R143 changed from 390Ω to 470Ω
18	11	1	1358	R147 changed from 3K3 to 1K8
18	11	1	1358	R148 changed from 2K7 to 1K8
18	11	2	1358	C141 changed from 8p2 to 12pF
19	11	2	1358	Add C142 220μF 10V
20	11	11	1355	Add D225 TN4004

BWD INDUSTRIES LTD.

MANUAL CHANGE INFORMATION FOR MODEL BWD: 603B

FROM SERIAL NO.	ISSUE	DATE	FROM SERIAL NO.	ISSUE	DATE
	21	9.7.86			

Issue	Sect.	Page	Cct.	AMENDMENT
21	11	9	1355	R314, 315, 316 & 317 added.
21	11	9	1355	R208 was 300ohm 1W
21	11	9	1355	R218 was 1K. $\frac{1}{2}$ W.
21	11	12E	1355	U302 was LM320T-12
21	11	10	1355	C302, 303 were 2222-016-16101
21	11	6	1357	C32, 321 were 50uF 150V PH2222-040-11509
21	11	9	1355	R21 was 0.5 Ω 5W
21	11	9	1355	R215 was 0.5 Ω 5W
21	11	9	1355	R318 was 470 Ω $\frac{1}{2}$ W
21	11	9	1355	R319 was 470 Ω $\frac{1}{2}$ W
21	11	9	1355	R323 was 100 Ω $\frac{1}{2}$ W
21	11	10	1355	R326 & 327 were 680 Ω $\frac{1}{2}$ W
21	11	12E	1355	Q200 was 2N3642
21	11	12E	1355	Q201 was 2N3644