

TR 402 SUPPLEMENT

ISR





skanti

INSTRUCTION MANUAL

SSB TRANSMITTER

Type T400

402

PARTS LIST
FOR
AF AMPLIFIER



42C 1	22 nF	-20/+80%	30V	Cer.
42C 2	8.2 nF	-20/+80%	400V	Cer.
42C 3	22 μ F		15V	Tan
42C 4	10 nF	-20/+80%	30V	Cer.
42C 5	51 nF	1%	63V	Polyst.
42C 6	100 μ F		16V	W.alum.
42C 7	51 nF	1%	63V	Polyst.
42C 8	15 nF	1%	63V	Polyst.
42C 9	2.7 nF	1%	125V	Polyst.
42C10	0.1 μ F	-20/+80%	12V	Cer.
42C11	2.7 nF	1%	125V	Polyst.
42C12	470 pF	1%	125V	Polyst.
42C13	0.1 μ F	-20/+80%	12V	Cer.
42C14	0.22 μ F	10%	100V	Polyes.
42C15	0.1 μ F	-20/+80%	12V	Cer.
42C16	100 μ F		16V	W.alum.
42C17	10 nF	-20/+80%	30V	Cer.
42C18	0.22 μ F	10%	100V	Polyes.
42C19	470 pF	1%	125V	Polyst.
42C20	39 pF	5%	400V	Cer.
42C21	100 μ F		16V	W.alum.
42C22	470 pF	1%	125V	Polyst.
42C23	56 pF	5%	400V	Cer.
42C24	0.1 μ F	-20/+80%	12V	Cer.
42C25	22 μ F		15V	Tan
42C26	2.2 μ F	10%	100V	Polyes.
42C27	22 μ F		15V	Tan
42C28	22 μ F		15V	Tan
42C29	22 μ F		15V	Tan
42C30	0.1 μ F	-20/+80%	12V	Cer.
42C31	100 μ F		16V	W.alum.
42C32	8.2 nF	-20/+80%	400V	Cer.
42C33	100 μ F		16V	W.alum.
42D 1- 9	1S920			
42IC 1	TAA611 B12			
42L 1	100 μ H	RF CHOKE	10%	
42L2	10 μ H	Rf Choke	10%	



42R 1	27 ohms	5%	1/8W	Car.
42R 2	120 ohms	5%	1/4W	Car.
42R 3	39 kohms	5%	1/8W	Car.
42R 4	5.6 kohms	5%	1/8W	Car.
42R 5	1 kohm	5%	1/8W	Car.
42R 6	15 kohms	5%	1/8W	Car.
42R 7	8.2 kohms	5%	1/8W	Car.
42R 8	270 kohms	5%	1/8W	Car.
42R 9	180 kohms	5%	1/8W	Car.
42R10	3.9 kohms	5%	1/8W	Car.
42R11	3.9 kohms	5%	1/8W	Car.
42R12	47 kohms	5%	1/8W	Car.
42R13	5.6 kohms	5%	1/8W	Car.
42R14	15 kohms	5%	1/8W	Car.
42R15	56 kohms	5%	1/8W	Car.
42R16	3.9 kohms	5%	1/8W	Car.
42R17	820 ohms	5%	1/8W	Car.
42R18	12 kohms	5%	1/8W	Car.
42R19	330 ohms	5%	1/8W	Car.
42R20	1 kohm	Var.		Car.
42R21	1 kohm	5%	1/8W	Car.
42R22	12 kohms	5%	1/8W	Car.
42R23	47 kohms	5%	1/8W	Car.
42R24	470 kohms	5%	1/8W	Car.
42R25	22 kohms	Var.		Car.
42R26	22 kohms	5%	1/8W	Car.
42R27	12 kohms	5%	1/8W	Car.
42R28	10 ohms	5%	1/8W	Car.
42R29	1 kohm	5%	1/8W	Car.
42R30	2.7 kohms	5%	1/8W	Car.
42R31	470 kohms	5%	1/8W	Car.
42R32	10 kohms	5%	1/8W	Car.
42R33	68 kohms	5%	1/8W	Car.
42R34	18 kohms	5%	1/8W	Car.

42TR 1	BC109C
42TR 2	BC177B
42TR 3	BC109C
42TR 4	BC177B
42TR 5	2N4393

PARTS LIST

FOR

HF MIXER



46C 1	47 nF	-20/+80%	12V	Cer.
46C 2	0.1 μ F	-20/+80%	12V	Cer.
46C 3	270 pF	1%	125V	
46C 4	56 pF	1%	125V	
46C 5	324 pF	1%	125V	
46C 6	330 pF	1%	125V	
46C 7	270 pF	1%	125V	
46C 8	220 pF	1%	125V	
46C 9	180 pF	1%	125V	
46C10	100 pF	1%	125V	
46C11	0.1 μ F	-20/+80%	12V	Cer.
46C12	0.1 μ F	-20/+80%	12V	Cer.
46C13	0.1 μ F	-20/+80%	12V	Cer.
46C14	100 pF	1%	125V	Polyst.
46C15	0.1 μ F	-20/+80%	12V	Cer.
46C16	22 nF	-20/+80%	30V	Cer.
46C17	22 nF	-20/+80%	30V	Cer.
46C18	0.1 μ F	-20/+80%	12V	Cer.
46C19	47 nF	-20/+80%	12V	Cer.
46C20	0.1 μ F	-20/+80%	12V	Cer.
46C21	47 nF	-20/+80%	12V	Cer.
46C22	47 nF	-20/+80%	12V	Cer.
46C23	0.1 μ F	-20/+80%	12V	Cer.
46C24	240 pF	1%	125V	Polyst.
46C25	0.1 μ F	-20/+80%	12V	Cer.
46C26	22 nF	-20/+80%	30V	Cer.
46C27	0.1 μ F	-20/+80%	12V	Cer.
46C28	22 nF	-20/+80%	12V	Cer.

46D 1- 3 1S920

46IC 1 CA3039
46IC 2 TBA120

46L 1	100 μ H	RF CHOKE	10%
46L 2	17 TURN	} 12x0.04"	
46L 3	13 TURN		
46L 4	14 TURN		
46L 5	100 μ H	RF CHOKE	10%
46L 6	100 μ H	RF CHOKE	10%
46L 7	100 μ H	RF CHOKE	10%

PARTS LIST
FOR
AERIAL CURRENT METER CIRCUIT



50C 1	47 nF	-20/+80%	12V	Cer.
50C 2	47 nF	-20/+80%	12V	Cer.

50D 1	AAZ 17			
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50R 1	220 ohms	5%	1W	Car.
50R 2	220 ohms	5%	1W	Car.
50R 3	220 ohms	5%	1W	Car.
50R 4	390 ohms	5%	1/8W	Car.
50R 5	470 ohms	VDR		
50R 6	^{3.3} 5.6 kohms	5%	1/8W	Car.
50R 7	470 ohms	NTC		

50T 1	TRANSFORMER			
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SKANTI CODE: T-0154

PARTS LIST
DRIVER ANODE CIRCUIT HF



51C 1- 2	8.2 nF	-20/+80%	400V	Cer.
51C 3	330 pF	1%	125V	Polyst.
51C 4- 6	8.2 nF	-20/+80%	400V	Cer.
51C 7	390 pF	1%	125V	Polyst.
51C 8- 9	8.2 nF	-20/+80%	400V	Cer.
51C10	110 pF	1%	125V	Polyst.
51C11-12	8.2 nF	-20/+80%	400V	Cer.
51C13	56 pF	1%	125V	Polyst.
51C14-15	8.2 nF	-20/+80%	400V	Cer.
51C16	82 pF	±5%	400V	Cer.
51C17-18	8.2 nF	-20/+80%	400V	Cer.
51C19	110 pF	1%	125V	Polyst.
51C20-21	8.2 nF	-20/+80%	400V	Cer.
51C22	39 pF	±5%	400V	Cer.
51C23-29	8.2 nF	-20/+80%	400V	Cer.

51D 1- 9 1S920

51L 1	COIL	SKANTI CODE: T-0217
51L 2	COIL	SKANTI CODE: T-0224
51L 3	COIL	SKANTI CODE: T-0218
51L 4	COIL	7 TURN 0.45 mm E
51L 5	COIL	SKANTI CODE: T-0221
51L 6	COIL	6 TURN 0.45 mm E
51L 7	COIL	SKANTI CODE: T-0222
51L 8	COIL	SKANTI CODE: T-0223
51L 9-11	1 mH RF CHOKE	10%

51R 1	150 kohms	5%	1/8W	Car.
51R 2	470 kohms	5%	1/4W	Car.
51R 3	470 kohms	5%	1/4W	Car.
51R 4	820 ohms	5%	1/4W	Car.
51R 5	1500 ohms	1%	1/8W	MR
51R 6	150 kohms	5%	1/8W	Car.
51R 7	1 kohm	5%	1/4W	Car.
51R 8	150 kohms	5%	1/8W	Car.
51R 9	1.2 kohm	5%	1/4W	Car.
51R10	150 kohms	5%	1/8W	Car.
51R11	1.8 kohms	5%	1/4W	Car.
51R12	150 kohms	5%	1/8W	Car.
51R13	2.2 kohms	5%	1/4W	Car.
51R14	150 kohms	5%	1/8W	Car.
51R15	150 kohms	5%	1/8W	Car.

PARTS LIST
FOR
HF-BANDFILTERS



53C 1- 2	8.2 nF	-20/+80%	400V	Cer.
53C 3	0.1 μ F	-20/+80%	12V	Cer.
53C 4	47 nF	-20/+80%	12V	Cer.
53C 5	0.1 μ F	-20/+80%	12V	Cer.
53C 6	47 nF	-20/+80%	12V	Cer.
53C 7	0.1 μ F	-20/+80%	12V	Cer.
53C 8	47 nF	-20/+80%	12V	Cer.
53C 9	0.1 μ F	-20/+80%	12V	Cer.
53C10	820 pF	1%	125V	Polyst.
53C11	15 pF	5%	400V	Cer.N150
53C12-13	390 pF	1%	125V	Polyst.
53C14-15	0.1 μ F	-20/+80%	12V	Cer.
53C16	10 pF	± 0.25 pF	400V	Cer.N150
53C17-18	390 pF	1%	125V	Polyst.
53C19-20	0.1 μ F	-20/+80%	12V	Cer.
53C21	1 pF	± 0.25 pF	400V	
53C22-23	39 pF	1%	125V	
53C24-25	17 nF	-20/+80%	12V	Cer.
53C26	2.2 pF	± 0.25 pF	400V	
53C27	47 pF	5%	400V	
53C28	56 pF	1%	125V	
53C29-30	47 nF	-20/+80%	12V	Cer.
53C31	47 pF	± 0.25 pF	400V	
53C32	8.2 pF	± 0.25 pF	400V	
53C33	68 pF	5%	400V	
53C34	82 pF	1%	125V	
53C35-36	47 nF	-20/+80%	12V	Cer.
53C37	12 pF	5%	400V	Cer.N150
53C38	3.3 pF	± 0.25 pF	400V	Cer.NP0
53C39	82 pF	5%	400V	Cer.N150
53C40	100 pF	1%	125V	Polyst.
53C41-42	22 nF	-20/+80%	30V	Cer.
53C43	10 pF	± 0.25 pF	400V	Cer.N150
53C44	12 pF	5%	400V	Cer.N150
53C45	82 pF	5%	400V	Cer.N150
53C46	100 pF	1%	125V	Polyst.
53C47	22 nF	-20/+80%	30V	Cer.
53C48	1.0 nF	1%	500V	Polyst.
53C49	22 nF	-20/+80%	30V	Cer.
53C50-51	8.2 nF	-20/+80%	400V	Cer.

53D 1-16 1S920

53L 1- 2	220 μ H	RF CHOKER	10%	
53L 3	001		SKANTI CODE: T-0225	
53L 4	100 μ H	RF CHOKER	10%	
53L 5	001		SKANTI CODE: T-0202	



53L 6	COIL	SKANTI CODE: T-0201
53L 7	COIL	SKANTI CODE: T-0204
53L 8	COIL	SKANTI CODE: T-0203
53L 9	COIL	SKANTI CODE: T-0206
53L10	COIL	SKANTI CODE: T-0205
53L11	COIL	SKANTI CODE: T-0208
53L12	COIL	SKANTI CODE: T-0207
53L13	COIL	SKANTI CODE: T-0210
53L14	COIL	SKANTI CODE: T-0209
53L15	COIL	SKANTI CODE: T-0212
53L16	COIL	SKANTI CODE: T-0211
53L17	COIL	SKANTI CODE: T-0214
53L18	COIL	SKANTI CODE: T-0213

53R 1	150 ohms	5%	1/4W	Car.
53R 2- 3	150 ohms	5%	1/8W	Car.
53R 4	330 ohms	5%	1/8W	Car.
53R 5	30.1 ohms	1%	1/8W	MR
53R 6	6.8 kohms	5%	1/8W	Car.
53R 7	4.7 kohms	5%	1/8W	Car.
53R 8	390 ohms	5%	1/8W	Car.
53R 9	270 ohms	5%	1/8W	Car.
53R10	5.6 kohms	5%	1/8W	Car.
53R11	4.7 kohms	5%	1/8W	Car.
53R12	390 ohms	5%	1/8W	Car.
53R13	270 ohms	5%	1/8W	Car.
53R14	15 10 kohms	5%	1/8W	Car.
53R15	47 27 kohms	5%	1/8W	Car.
53R16	390 ohms	5%	1/8W	Car.
53R17	270 ohms	5%	1/8W	Car.
53R18	5.6 kohms	5%	1/8W	Car.
53R19	10 6.8 kohms	5%	1/8W	Car.
53R20	390 ohms	5%	1/8W	Car.
53R21	270 ohms	5%	1/8W	Car.
53R22	33 3.3 kohms	5%	1/8W	Car.
53R23	5.6 kohms	5%	1/8W	Car.
53R24	390 ohms	5%	1/8W	Car.
53R25	270 ohms	5%	1/8W	Car.
53R26	5.6 kohms	5%	1/8W	Car.
53R27	6.8 kohms	5%	1/8W	Car.
53R28	390 ohms	5%	1/8W	Car.
53R29	270 ohms	5%	1/8W	Car.
53R30	3.3 kohms	5%	1/8W	Car.
53R31	2.2 kohms	5%	1/8W	Car.
53R32	390 ohms	5%	1/8W	Car.
53R33	270 ohms	5%	1/8W	Car.

53T 1	TRANSFORMER	SKANTI CODE: T-0227
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PARTS LIST
FOR
CHASSIS (electrical parts)



57C 1- 5	8.2 nF	-20/+80%	400V	Cer.
57C 6	4.7 nF	20%	5kVs	Cer.
57C 7	6 μ F	10%	250V	MP
57C 8	0.1 μ F	-20/+80%	12V	Cer.
57C 9	180 pF	1%	125V	Polyst.
57C10	47 pF	5%	400V	Cer.N150
57C11	470 μ F		16V	W.alum.
57C12-13	22 nF	-20/+80%	30V	Cer.
57C14-15	0.1 μ F	10%	250V	Polyes.
57C16	160 pF	5%	400V	Cer.N150
57C17	8.2 nF	-20/+80%	400V	Cer.
57C18-21	0.1 μ F	-20/+80%	12V	Cer.
57C22-27	8.2 nF	-20/+80%	400V	Cer.
57C28	10 nF	10%	400V	Polyes.
57C29	47 nF	-20/+80%	12V	Cer.
57C30	10 nF	10%	400V	Polyes.
57C31	47 nF	-20/+80%	12V	Cer.
57C32	10 nF	10%	400V	Polyes.
57C33	47 nF	-20/+80%	12V	Cer.
57C34	0.1 μ F	10%	250V	Polyes.
57C35	4 μ F	10%	300V	MP
57C36	100 μ F		16V	W.alum.
57C37	0.1 μ F	10%	250V	Polyes.
57C38	not used 0.1 μ F 10%		250V	
57C39	not used			
57C40	22 nF	-20/+80%	30V	Cer.
57C41	8.2 nF	-20/+80%	400V	Cer.
57C42	5 pF	10%	2kVs	Cer.P140-100
57C43-44	100 pF	10%	3kVs	Cer.P140-100
57C45	4.7 nF	-20/+80%	5kVs	Cer.lak
57C46	4.7 nF	20%	5kVs	Cer.
57C47	120 pF	10%	3kVs	Cer.N200-300
57C48	60 pF	5%	3kVs	Cer.P140-100
57C49	100 pF	Var.	air	SKANTICODE: T-0165
57C50	100 pF	5%	3kVs	Cer.P140-100
57C51	80 pF	10%	2kVs	Cer.P140-100
57C52	30 pF	10%	3kVs	Cer.P140-100
57C53	40 pF	10%	3kVs	Cer.P140-100
57C54	30 pF	5%	3kVs	Cer.P140-100
57C55	60 pF	5%	3kVs	Cer.P140-100
57C56	120 pF	10%	3kVs	Cer.N200-300
57C57-58	100 pF	5%	3kVs	Cer.P140-100
57C59	300 pF	10%	3kVs	Cer.N200-300
57C60	400 pF	10%	3kVs	Cer.N200-300
57C61	600 pF	10%	3kVs	Cer.N200-300
57C62	150 pF	Var.	air	SKANTICODE: T-0243
57C63	60 pF	10%	2kVs	Cer.P140-100
57C64	300 pF	10%	3kVs	Cer.N200-300
57C65	22 pF	5%	400V	Cer.N150
57C66	180 pF	5%	400V	Cer.



57D 1	BZY93-C39	Zener		
57D 2	BZX79 C6V8	Zener		
57D 3	1S920			
57L 1- 3	COIL		SKANTI CODE: T-0273	
57L 4- 6	COIL		SKANTI CODE: T-0161	
57L 7	COIL		SKANTI CODE: T-0196	
57L 8- 9	COIL 100 Turn .35 ϕ			
57L10	COIL		SKANTI CODE: T-0174	
57L11	COIL		SKANTI CODE: T-0230	
57L12	COIL		SKANTI CODE: T-0238	
57L13-18	RF-choke 100uH 10%			
57ME 1	LEVEL METER	1 mA	70 ohm SKANTI CODE: T-0110	
57ME 2	AERIAL CURRENT	1 mA	70 ohm SKANTI CODE: T-0130	
57MT 1	HANDSET		SKANTICODE: T-0338	
57PL 2	1 pole connector (plug)		L623p B&L	
57PL 3	antenna		SKANTI CODE: T-0105	
57PL 4	earth		SKANTI CODE: T-0105	
57R 0	220 kohms	5%	1W	Car.
57R 1	6.8 ohms	5%	27W	ww
57R 2	82 ohms	5%	1/8W	Car.
57R 3	180 ohms	5%	1/8W	Car.
57R 4	56 ohms	5%	1/8W	Car.
57R 5	120 ohms	5%	1/8W	Car.
57R 6	5.6 kohms	5%	1/8W	Car. SKANTI CODE: T-0255
57R 7	8.4+7.6 ohms	5%	20W	ww
57R 8	12 ohms	5%	14W	ww
57R 9	470 kohms	5%	1/8W	Car.
57R10	9 ohms	5%	27W	ww
57R11	220 ohms	5%	1/8W	Car.
57R12	9 ohms	5%	27W	ww
57R13	220 ohms	5%	1/8W	Car.
57R14	9 ohms	5%	27W	ww
57R15	220 ohms	5%	1/8W	Car.
57R16	PTC	2322 661 91003		Miniwatt
57R17	68 ohms	5%	1/4W	Car.
57R18-20	1.1 ohms	5%	3W	ww
57R21	PTC	2322 661 91003		Miniwatt
57R22-25	47 kohms	5%	1W	Car.
57R26-28	68 ohms	5%	1/4W	Car.
57R29-31	120 ohms	5%	1/2W	Car.
57R32	470 kohms	5%	1W	Car.
57R33-34	2.2 kohms	5%	1/8W	Car.
57R35-40	1.5 Mohms	5%	1W	Car.
57R41	100 kohms	5%	1/8 W	Car.
57R42	12 kohms	5%	1/8 W	Car.
57R43	39 kohms	5%	1/8 W	Car.
57R44	150 ohms	5%	1/4 W	Car.
57RL1	RELAY	KMK2	24V DC	Keyswitch

PARTS LIST
FOR
NEUTRALIZATION



58C 1	8.2 nF	-20/+80%	400V	Cer.
58C 2	20 pF	Var.		Cer.
58C 3	10 18 pF	5%	400V	Cer.
58C 4	20 pF	Var.		Cer.
58C 5	18 27 pF	5%	400V	Cer.
58C 6	20 pF	Var.		Cer.
58C 7	27 pF	5%	400V	Cer.
58C 8	20 pF	Var.		Cer.
58C 9	27 pF	5%	400V	Cer.
58C10-12	8.2 nF	-20/+80%	400V	Cer.
58C13	22 pF	5%	400V	Cer.
58C14	8.2 nF	-20/+80%	400V	Cer.

58D 1- 4 1N4148

58L 1- 2	COIL		SKANTI CODE: T-0242
58L 3	COIL		SKANTI CODE: T-0241 - 2 turn
58L 4- 5	1 mH	RF CHOKE	10%

58R 1- 2	470 kohms	5%	1/8W	Car.
58R 3	33 kohms	5%	1/8W	Car.
58R 4- 5	470 kohms	5%	1/8W	Car.
58R 6	10 kohms	5%	1/8W	Car.

58T 1	TRANSFORMER	SKANTI CODE: T-0278
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PARTS LIST

FOR

AC RACK



71PL 1	1 pole plug		BNC
71PL 2	1 pole plug		BNC
71PL 3	1 pole plug		BNC
71S 1	safety switch	D52	Burgess
71S 2	safety switch	D52	Burgess
71S 3	safety switch	D52	Burgess
71SK 1	socket	EARTH	SKANTI CODE: T-0335
71SK 2	socket	ANTENNA	SKANTI CODE: T-0335
71SK 3	socket	25 pole XS25	McMurdo
71SK 4	socket	1 pole L623/S	B&L
71SK 5	socket	EARTH	SKANTI CODE: T-0335
71SK 6	socket	12 pole XS12	McMurdo
71SK 7	socket	25 pole XS25	McMurdo
71SK 8	socket	1 pole L623/S	B&L
	<i>Fan</i>	<i>Papst 4550</i>	

PARTS LIST

FOR

DC RACK



72C 1	8.2 nF	5%	125V	Polys.
72PL 1- 3	1 pole plug			BNC
72PL 4	1 pole plug			AMP
72R 1-10	6.8 ohm	5%	27W	ww
72S 1- 3	safety switch		D52	Burgess
72SK 1	socket	EARTH		SKANTI CODE: T-0335
72SK 2	socket	ANTENNA		SKANTI CODE: T-0335
72SK 3	socket	25 pole XS25		McMurdo
72SK 4	socket	1 pole L623/S		B&L
72SK 5	socket	EARTH		SKANTI CODE: T-0335
72SK 6	socket	12 pole XS12		McMurdo
72SK 7	socket	25 pole XS25		McMurdo
72SK 8	socket	1 pole L623/S		B&L

BF105



BC109C

BSX19



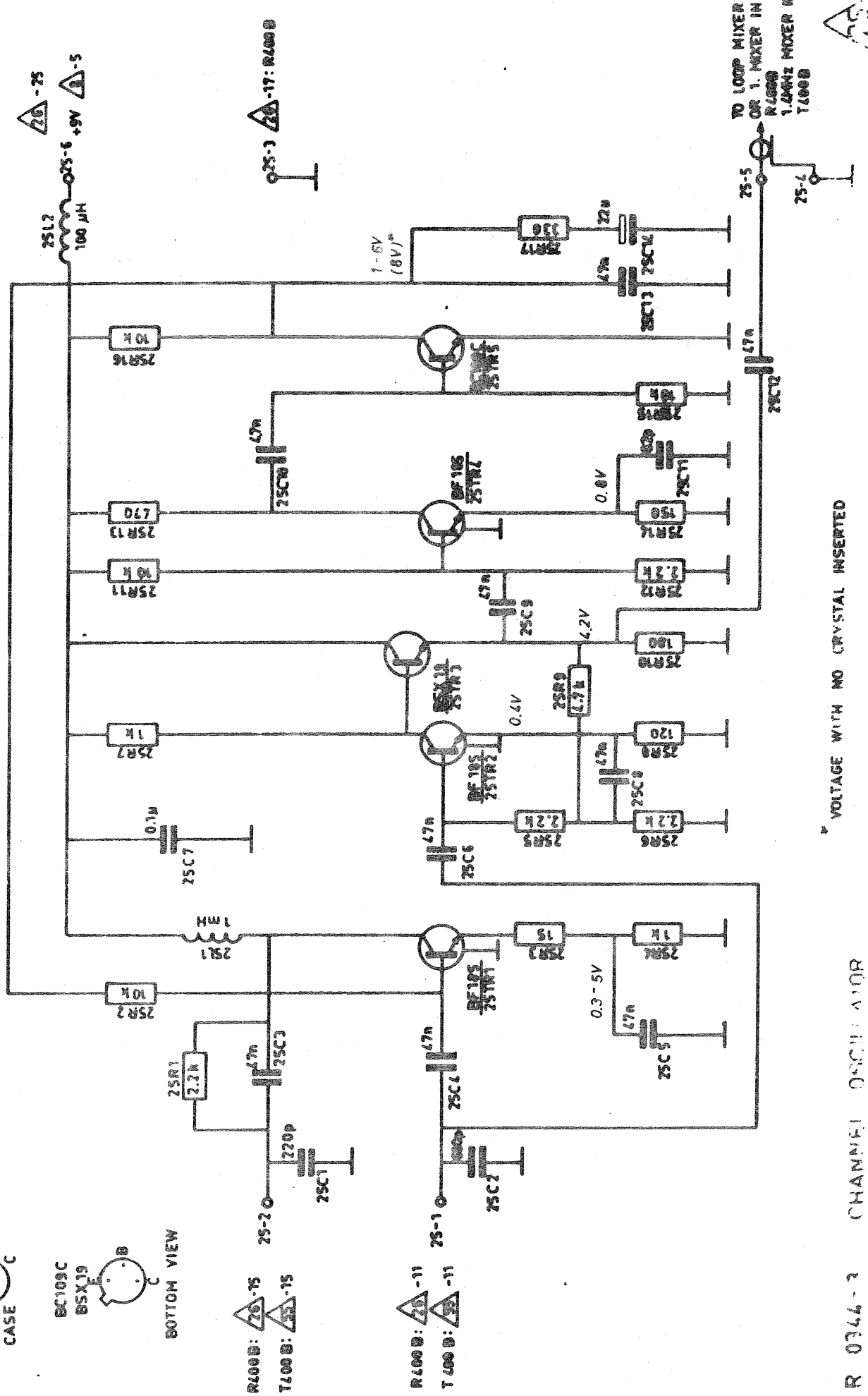
BOTTOM VIEW

R 400 B: 25-15

T 400 B: 25-15

R 400 B: 25-11

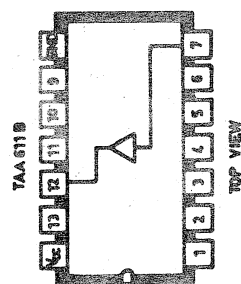
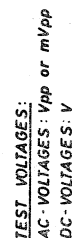
T 400 B: 25-11



VOLTAGE WITH NO CRYSTAL INSERTED

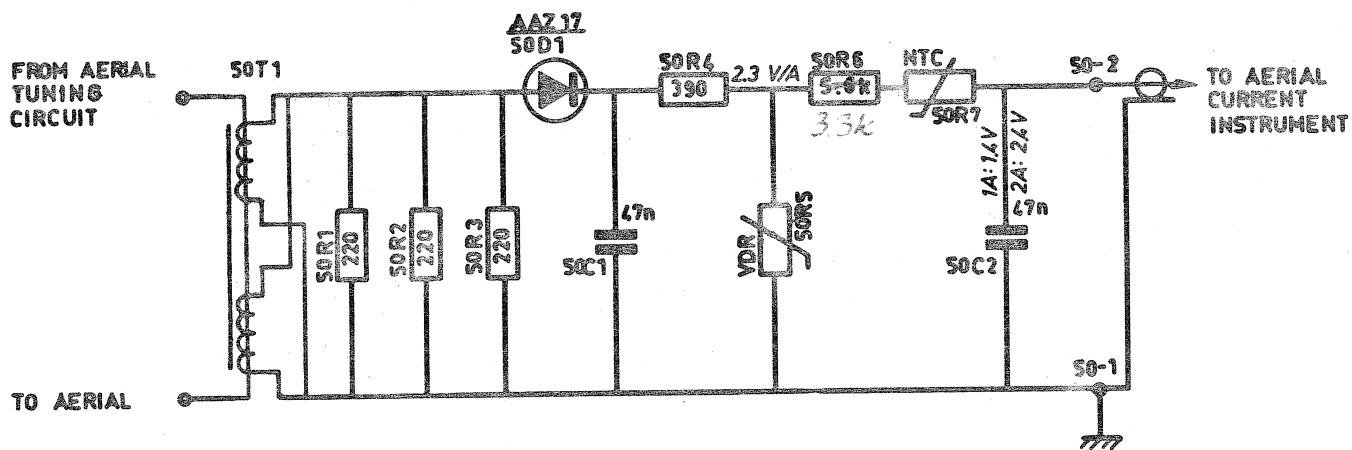
R 0346-2 CHANNEL OSCILLATOR

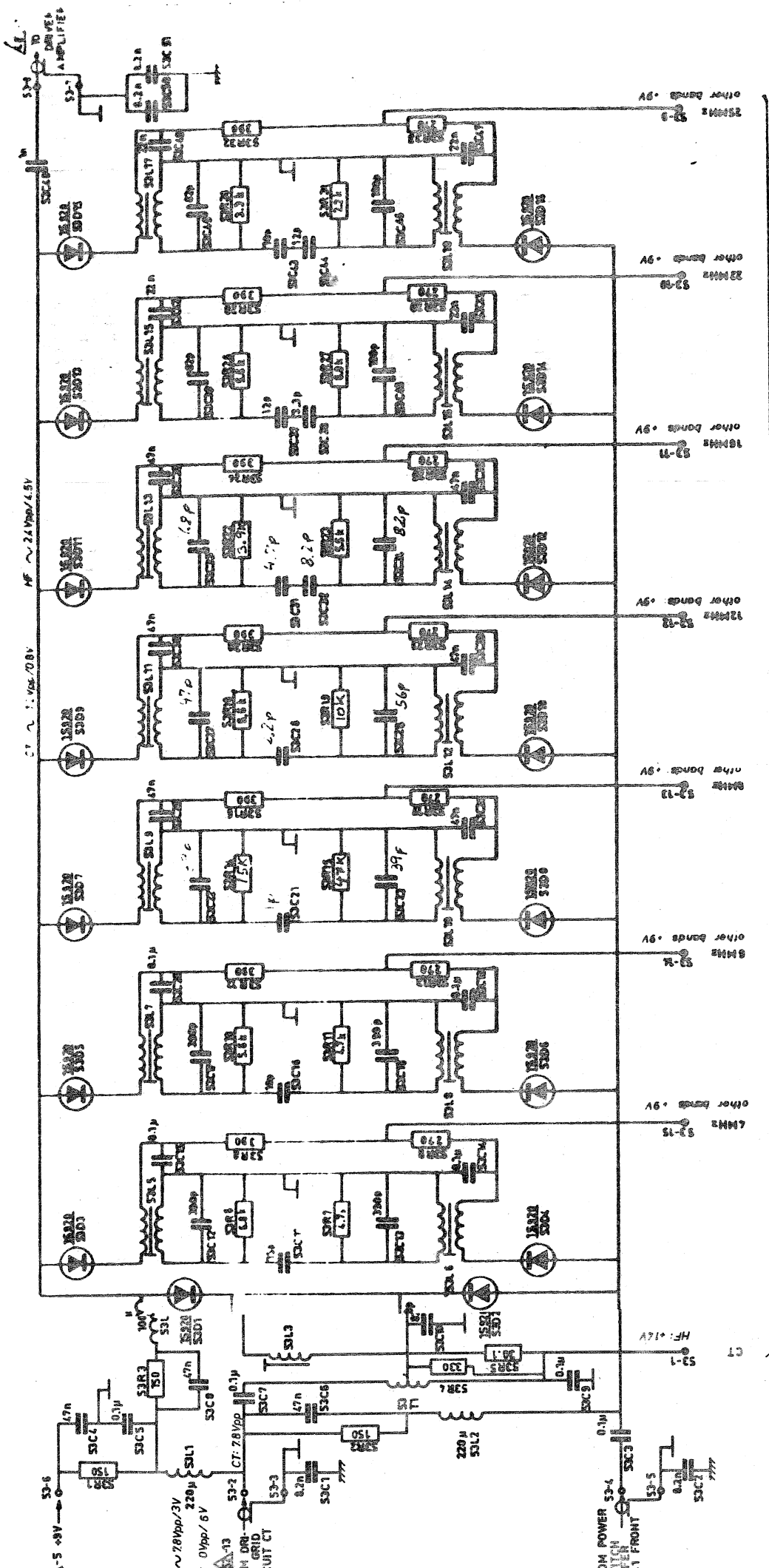
△



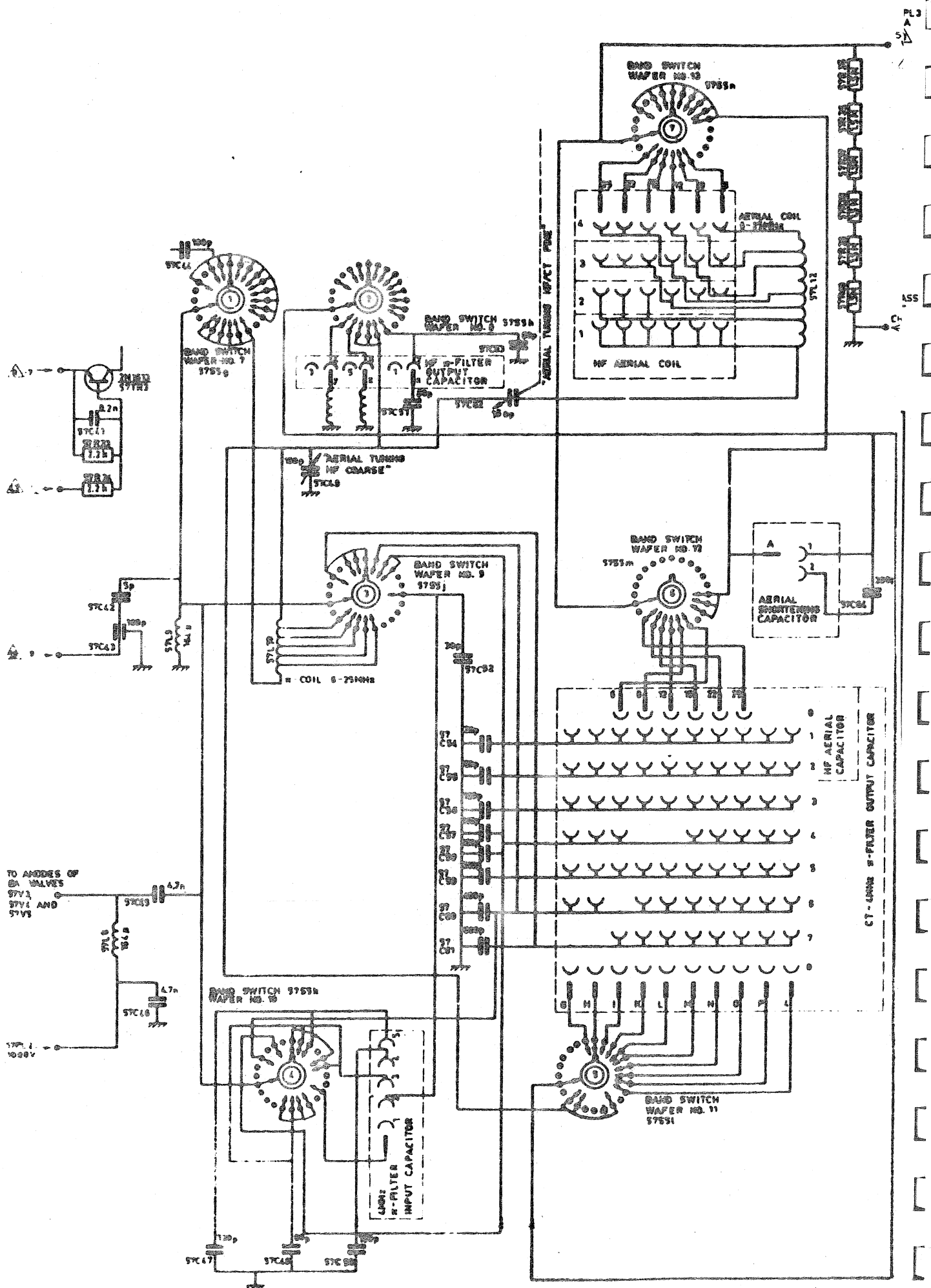
NEW BOTTOM VIEW

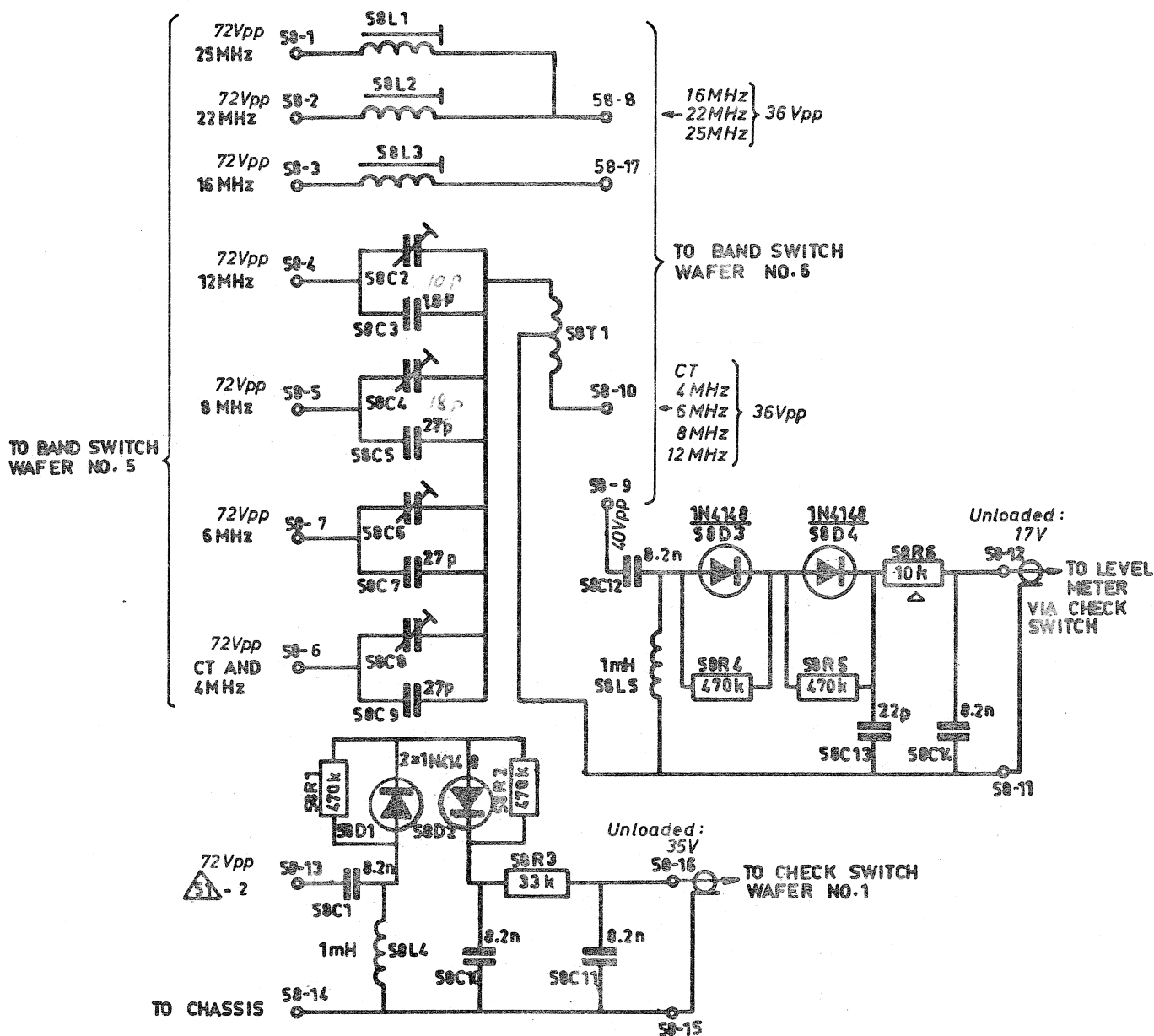






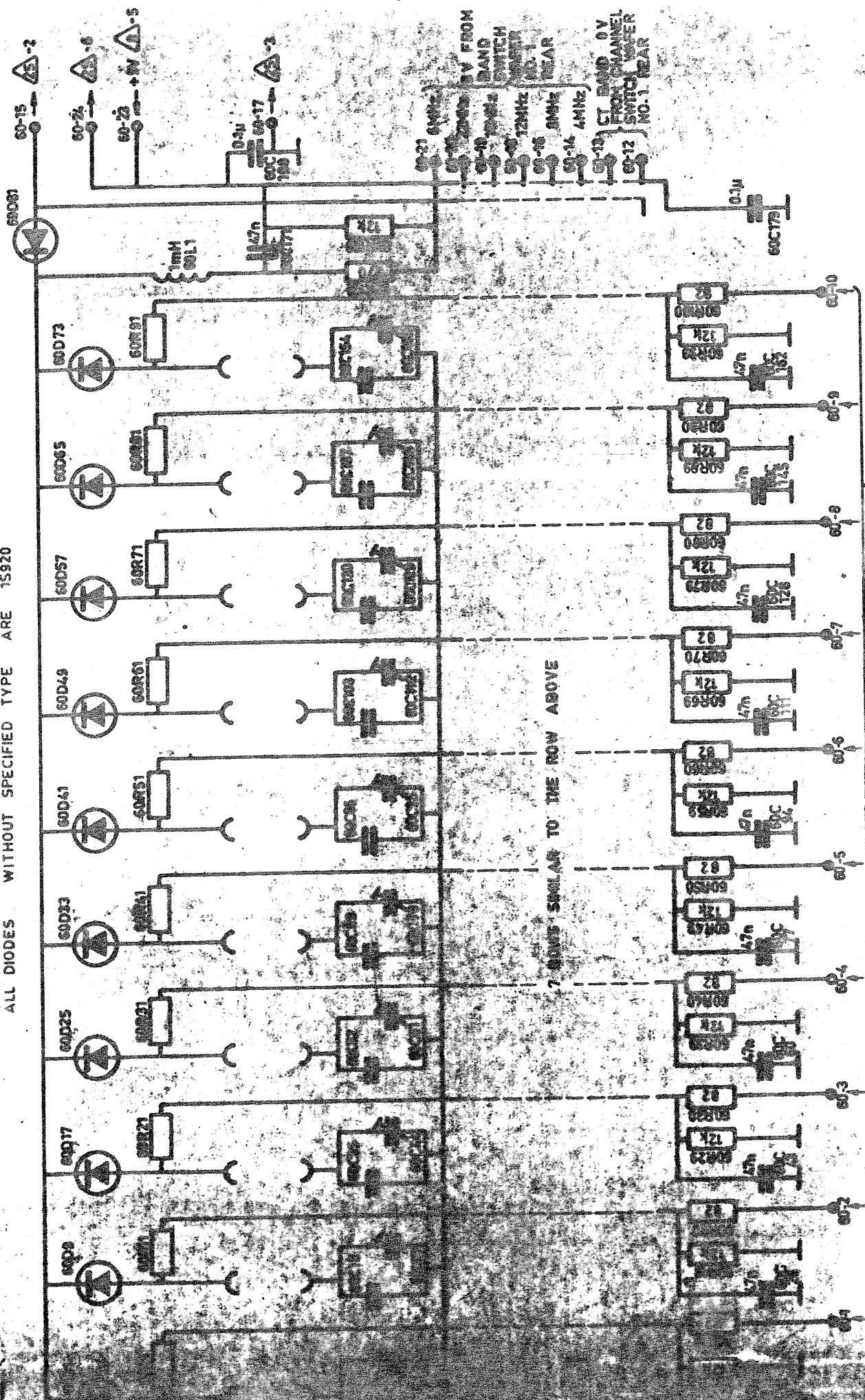
0V FROM BAND SWITCH
WAFER NO. 1 BACK





TEST VOLTAGES:
AC-VOLTAGES: Vpp or mVpp
DC-VOLTAGES: V

ALL	RESISTORS	WITHOUT	SPECIFIED	VALUE	10 K
ALL	CAPACITORS	WITHOUT	SPECIFIED	VALUE	10 P
ALL	DIODES	WITHOUT	SPECIFIED	TYPE	159



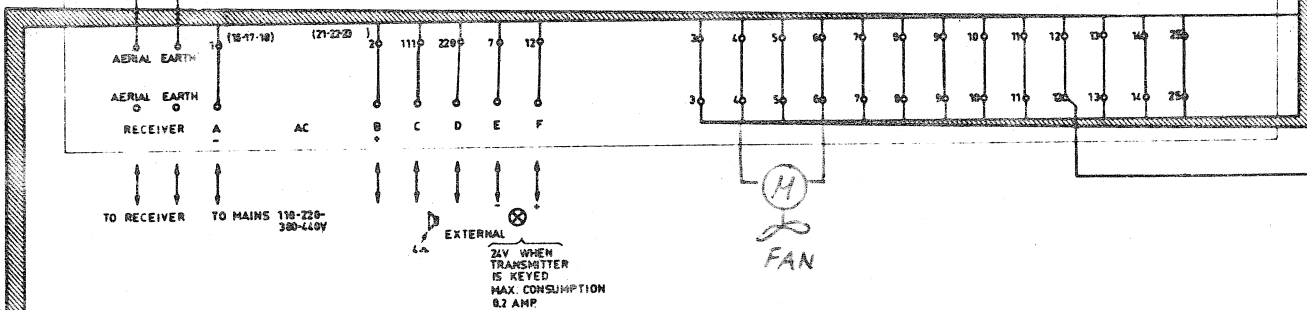
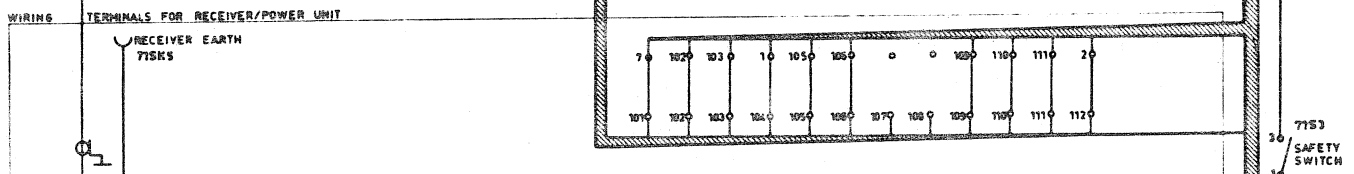
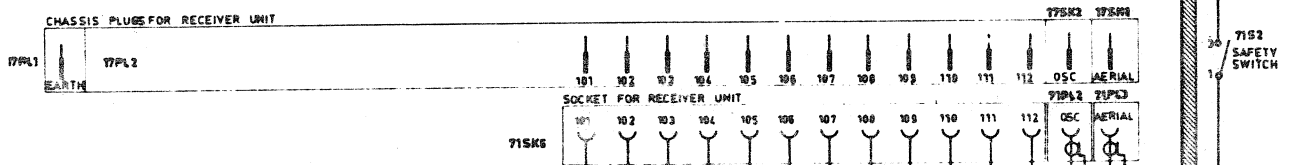
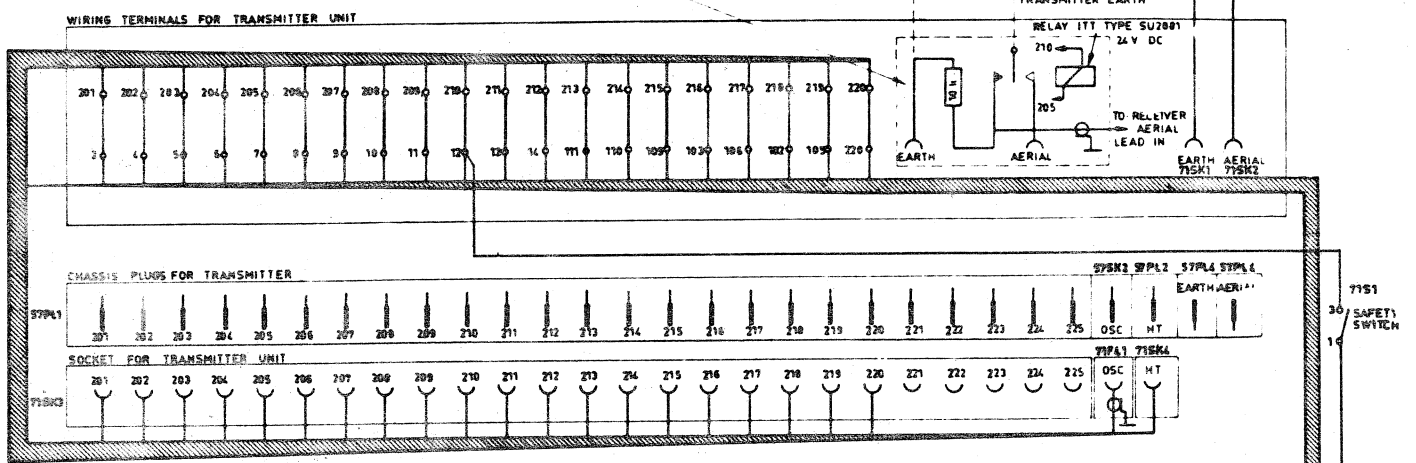
49V FROM CHANNEL SWITCH WAFER NO.1 FRONT

CRYSTAL BOARD



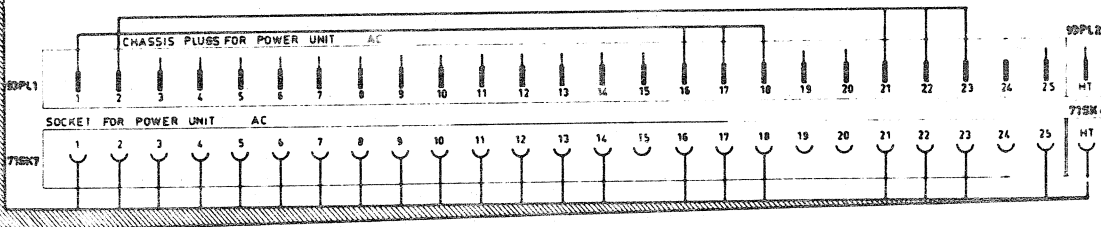
OPTIONAL AERIAL RELAY FOR
EXTRA RECEIVER OR INTEGRAL
RECEIVER (SIMPLEX) (SEE IN-
STRUCTION MANUAL FOR
TRANSMITTER T400)

TRANSMITTER AERIAL



FOR MAINS OPERATION USE PLASTIC CABLE MIN. 2 = 25mm²
FOR EXTERNAL CABLE USE PLASTIC CABLE MIN. 2 = 15mm²

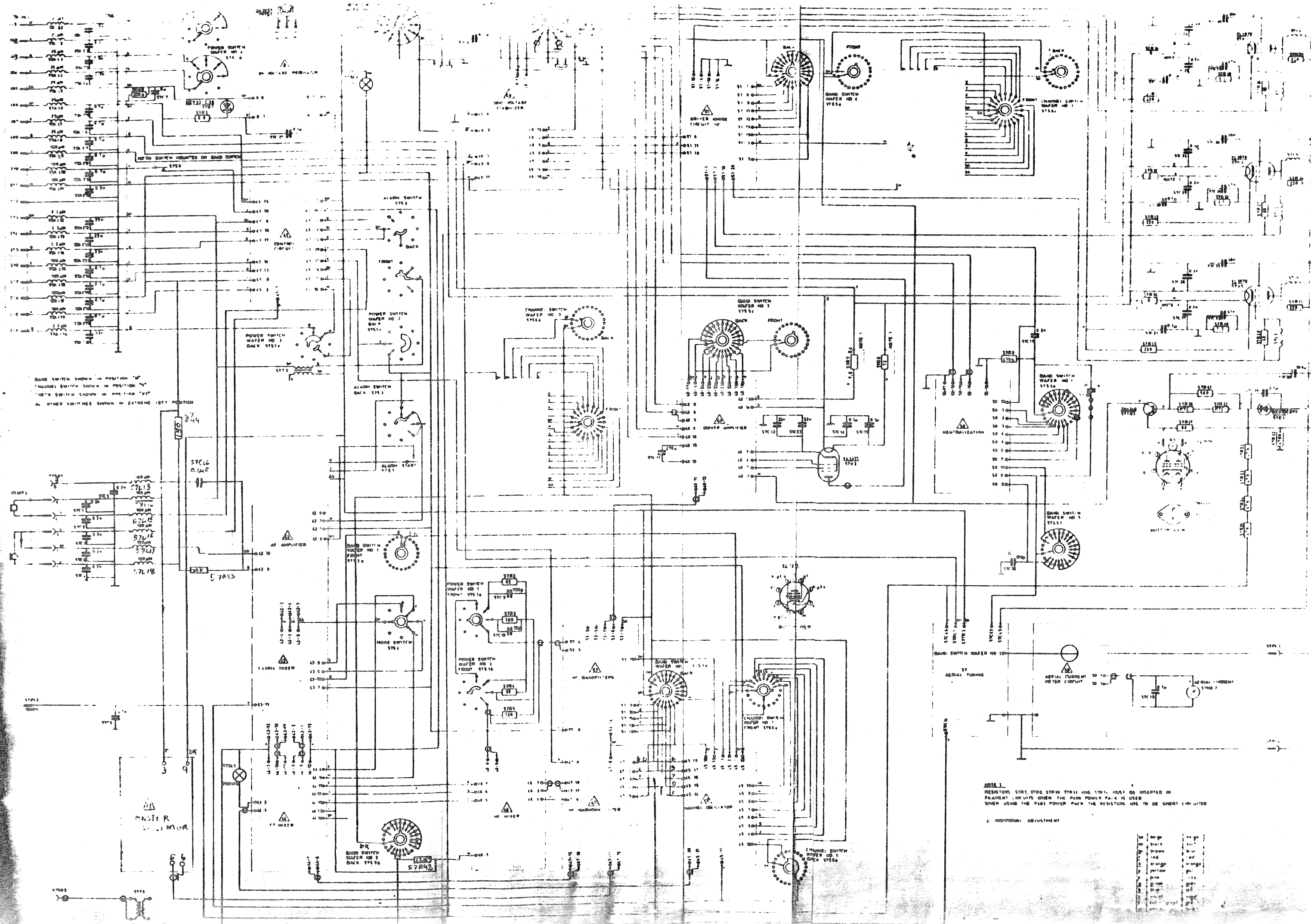
EARTH CABLE FOR RECEIVER PLASTIC CABLE MIN. 25mm²
EARTH FOR TRANSMITTER 100 = 0.5mm COPPER STRIP
AERIAL CABLE FOR RECEIVER COAXIALCABLE TYPE T2236 (A593M) 50A OR RG212U



CAUTION: IN INSTALLATIONS FOR DUPLEX OPERATION IT IS
NECESSARY TO USE SEPARATE EARTH CONNECTIONS
FOR RECEIVER AND TRANSMITTER.

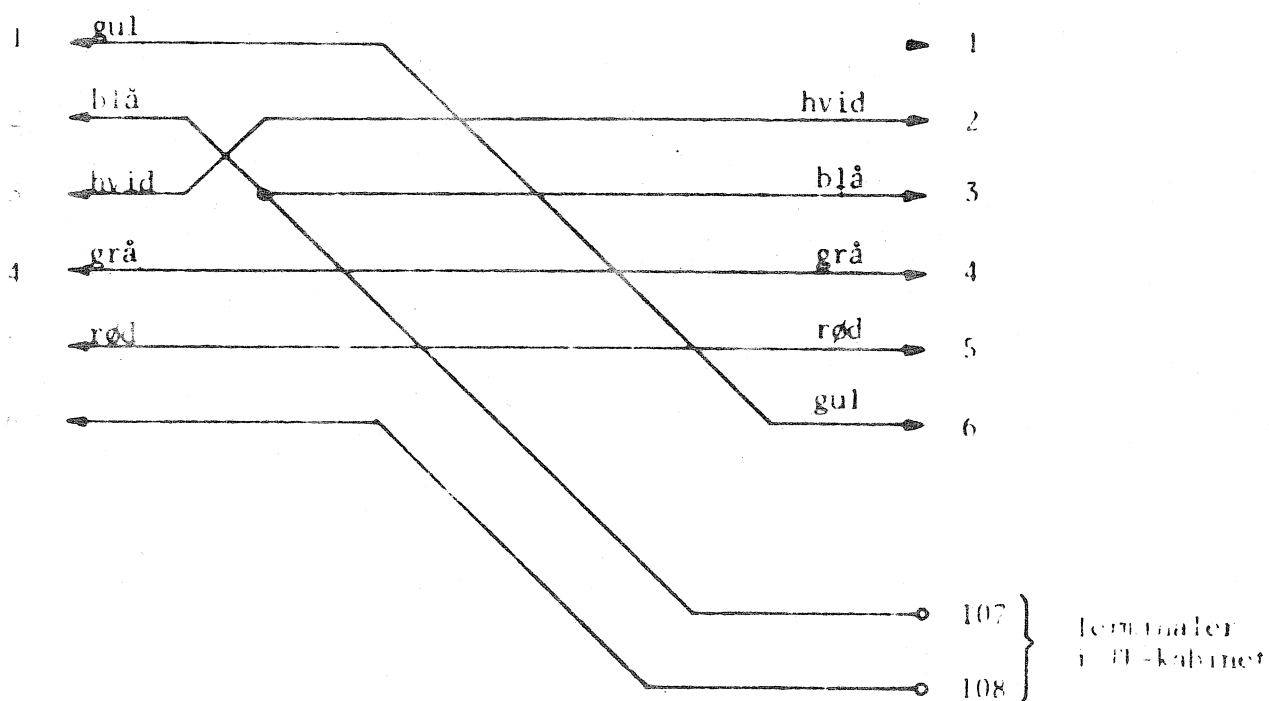
TERMINALS ARE NUMBERED IN THE FOLLOWING ORDER
POWER UNIT, RECEIVER, TRANSMITTER, EXTERNAL CONNECTIONS





SO 6

T 402



Mellemledning mikrofonstik T 402/SO 6 ITUA

200cm styrekabel 5×0.5^2 R.S. nr. 10276

225cm netledning 2×0.75^2

2 mikrofonstik T 3400/1



skanti

INSTRUCTION MANUAL

SSB RECEIVER

Type R400

402

PARTS LIST
FOR
HF COIL SECTION



3C 1	0.1 pF	10%	250V	Polyes.
3C 2	47 nF	-20/+80%	12V	Cer.
3C 3	27 pF	5%	400V	Cer.N150
3C 4-10	0.1 uF	10%	250V	Polyes.
3C11	47 nF	-20/+80%	12V	Cer.
3C12	5.2 pF	$\pm 0.25pF$	400V	Cer.
3C13	160 pF	5%	400V	Cer.
3C14	91 pF	5%	400V	Cer.
3C15	82 pF	5%	400V	Cer.
3C16	68 pF	5%	400V	Cer.
3C17	56 pF	5%	400V	Cer.
3C18	51 pF	5%	400V	Cer.N150
3C19	39 pF	5%	400V	Cer.N150
3C20	47 nF	-20/+80%	12V	Cer.
3C21	6.8 pF	$\pm 0.25pF$	400V	Cer.N150
3C22-23	3.3 pF	$\pm 0.25pF$	400V	Cer.
3C24	2.2 pF	$\pm 0.25pF$	400V	Cer.
3C25	2.2 pF	$\pm 0.25pF$	400V	Cer.
3C26	2.2 pF	$\pm 0.25pF$	400V	Cer.
3C27	2.2 pF	$\pm 0.25pF$	400V	Cer.
3C28	2.2 pF	$\pm 0.25pF$	400V	Cer.
3C29	5.6 pF	$\pm 0.25pF$	400V	Cer.N150
3C30	3.9 pF	$\pm 0.25pF$	400V	Cer.N150
3C31	3.3 pF	$\pm 0.25pF$	400V	Cer.N150
3C32	2.7 pF	$\pm 0.25pF$	400V	Cer.
3C33	2.7 pF	$\pm 0.25pF$	400V	Cer.NP0
3C34-35	2.2 pF	$\pm 0.25pF$	400V	Cer.NP0
3C36	47 nF	-20/+80%	12V	Cer.
3C37	160 pF	5%	400V	Cer.N150
3C38	91 pF	5%	400V	Cer.
3C39	68 pF	5%	400V	Cer.
3C40	68 pF	5%	400V	Cer.
3C41	56 pF	5%	400V	Cer.
3C42	51 pF	5%	400V	Cer.N150
3C43	39 pF	5%	400V	Cer.N150
3C44	47 pF	5%	400V	Cer.
3C45	47 nF	-20/+80%	12V	Cer.
3C46	6.8 pF	$\pm 0.25pF$	400V	Cer.N150
3C47-48	3.3 pF	$\pm 0.25pF$	400V	Cer.
3C49	2.7 pF	$\pm 0.25pF$	400V	Cer.
3C50	2.2 pF	$\pm 0.25pF$	400V	Cer.
3C51	2.2 pF	$\pm 0.25pF$	400V	Cer.
3C52	2.2 pF	$\pm 0.25pF$	400V	Cer.NP0
3C53	5.6 pF	$\pm 0.25pF$	400V	Cer.N150
3C54	3.9 pF	$\pm 0.25pF$	400V	Cer.N150
3C55	3.3 pF	$\pm 0.25pF$	400V	Cer.N150
3C56	2.7 pF	$\pm 0.25pF$	400V	Cer.
3C57-59	2.2 pF	$\pm 0.25pF$	400V	Cer.NP0
3C60	33 pF	5%	400V	Cer.
3C61	160 pF	5%	400V	Cer.N150
3C62	91 pF	5%	400V	Cer.
3C63	82 pF	5%	400V	Cer.



3C64	68 pF	5%	400V	Cer.
3C65	56 pF	5%	400V	Cer.
3C66	51 pF	5%	400V	Cer.N150
3C67	39 pF	5%	400V	Cer.N150
3C68	150 pF	5%	400V	Cer.N150
3C69	47 nF	-20/+80%	12V	Cer.
3C70	12 pF	5%	400V	Cer.N150
3C71	100 pF	5%	400V	Cer.N150
3C72-79	47 nF	-20/+80%	12V	Cer.
3C80	4.7 pF	±0.25pF	400V	Cer.N150
3C81-87	47 nF	-20/+80%	12V	Cer.
3C88	4.7 nF	-20/+80%	30V	Cer.
3C89	180 pF	5%	400V	Cer.N150
3C90	150 pF	5%	400V	Cer.N150
3C91	110 pF	5%	400V	Cer.N150
3C92	100 pF	5%	400V	Cer.N150
3C93	75 pF	5%	400V	Cer.N150
3C94	56 pF	5%	400V	Cer.N150
3C95	39 pF	5%	400V	Cer.N150
3C96	5.6 pF	±0.25pF	400V	Cer.N150
3C97-98	3.3 pF	±0.25pF	400V	Cer.N150
3C99	2.7 pF	±0.25pF	400V	Cer.NP0
3C100-101	2.2 pF	±0.25pF	400V	Cer.NP0
3C102	1.8 pF	±0.25pF	400V	Cer.NP0
3C103	5.6 pF	±0.25pF	400V	Cer.N150
3C104	3.9 pF	±0.25pF	400V	Cer.N150
3C105	3.3 pF	±0.25pF	400V	Cer.N150
3C106	2.7 pF	±0.25pF	400V	Cer.NP0
3C107-108	2.2 pF	±0.25pF	400V	Cer.NP0
3C109	1.8 pF	±0.25pF	400V	Cer.NP0
3C110	47 nF	-20/+80%	12V	Cer.
3C111	180 pF	5%	400V	Cer.N150
3C112	150 pF	5%	400V	Cer.N150
3C113	110 pF	5%	400V	Cer.N150
3C114	100 pF	5%	400V	Cer.N150
3C115	75 pF	5%	400V	Cer.N150
3C116	56 pF	5%	400V	Cer.N150
3C117	39 pF	5%	400V	Cer.N150
3C118	47 nF	-20/+80%	12V	Cer.
3C119-125	0.1 nF	10%	250V	Polyes.
3C126	47 nF	-20/+80%	12V	Cer.
3C127	150 pF	5%	400V	Cer.
3D 1-24	1S920			
3D25	BZX79 C6V8	Zener		

3IC 1 S1010C

SL 1 COIL
SL 2 COIL
SL 3 COIL
SL 4 COIL
SL 5 COIL

SKANTI CODE: R-0204
SKANTI CODE: R-0207
SKANTI CODE: R-0207
SKANTI CODE: R-0207
SKANTI CODE: R-0182



3L 6	COIL	SKANTI CODE: R-0185
3L 7	COIL	SKANTI CODE: R-0186
3L 8	COIL	SKANTI CODE: R-0186
3L 9	COIL	SKANTI CODE: R-0186
3L10-11	COIL	SKANTI CODE: R-0187
3L12-13	COIL	SKANTI CODE: R-0208
3L14	COIL	SKANTI CODE: R-0209
3L15-16	1 ml	10%
	RF CLOCK	

3R 1- 7	1.0 kohm	5%	1/8W	Car.
3R 8-11	150 ohms	5%	1/8W	Car.
3R12-18	1.0 kohm	5%	1/8W	Car.
3R19	150 ohms	5%	1/8W	Car.
3R20	330 ohms	5%	1/8W	Car.
3R21	150 ohms	5%	1/8W	Car.
3R22-28	1.0 kohm	5%	1/8W	Car.
3R29	1.8 kohms	5%	1/8W	Car.
3R30-36	1.0 kohm	5%	1/8W	Car.
3R37	47 ohms	5%	1/8W	Car.
3R38	100 ohms	5%	1/8W	Car.
3R39	33 ohms	5%	1/8W	Car.

3SL 1- 7	LAMP	A9A-C
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3T 1	TRANSFORMER	SKANTI CODE: R-0176
3T 2	TRANSFORMER	SKANTI CODE: R-0177
3T 3	TRANSFORMER	SKANTI CODE: R-0180
3T 4	TRANSFORMER	SKANTI CODE: R-0180
3T 5	TRANSFORMER	SKANTI CODE: R-0180
3T 6- 7	TRANSFORMER	SKANTI CODE: R-0181
3T 8	TRANSFORMER	SKANTI CODE: R-0188
3T 9	TRANSFORMER	SKANTI CODE: R-0191
3T10	TRANSFORMER	SKANTI CODE: R-0192
3T11	TRANSFORMER	SKANTI CODE: R-0192
3T12	TRANSFORMER	SKANTI CODE: R-0192
3T13-14	TRANSFORMER	SKANTI CODE: R-0193
3T15	TRANSFORMER	SKANTI CODE: R-0200
3T16	TRANSFORMER	SKANTI CODE: R-0201
3T17	TRANSFORMER	SKANTI CODE: R-0202
3T18	TRANSFORMER	SKANTI CODE: R-0191
3T19	TRANSFORMER	SKANTI CODE: R-0192
3T20-21	TRANSFORMER	SKANTI CODE: R-0203
3T22	TRANSFORMER	SKANTI CODE: R-0194
3T23	TRANSFORMER	SKANTI CODE: R-0195
3T24	TRANSFORMER	SKANTI CODE: R-0196
3T25	TRANSFORMER	SKANTI CODE: R-0197
3T26	TRANSFORMER	SKANTI CODE: R-0198
3T27-28	TRANSFORMER	SKANTI CODE: R-0199

PARTS LIST
FOR
IF AMPLIFIERS



5C 1	47 nF	-20/+80%	12V	Cer.
5C 2	10 nF	-20/+80%	30V	Cer.
5C 3	47 nF	-20/+80%	12V	Cer.
5C 4- 6	0.1 μ F	-20/+80%	12V	Cer.
5C 7	100 pF	$\pm 5\%$	400V	Cer.N150
5C 8	22 pF	$\pm 5\%$	400V	Cer.N150
5C 9-11	0.1 μ F	-20/+80%	12V	Cer.
5C12	360 pF	1%	125V	Polyst.
5C13	1 nF	1%	125V	Polyst.
5C14-18	0.1 μ F	-20/+80%	12V	Cer.
5C19	10 nF	-20/+80%	30V	Cer.
5C20	0.22 μ F	-20/+80%	12V	Cer.
5C21	0.1 μ F	-20/+80%	12V	Cer.
5C22	0.22 μ F	-20/+80%	12V	Cer.

5D 1	BZY88 C6V8	Zener
5D 2- 6	1S920	

5IC 1	SL612C
5IC 2	TBA120
5IC 3	CA3026

5L 1	1 mH	RF CHOKE	$\pm 10\%$
5L 2	22 μ H	RF CHOKE	$\pm 10\%$
5L 3	47 μ H	RF CHOKE	$\pm 10\%$

5R 1- 2	100 ohms	5%	1/8W	Car.
5R 3	56 ohms	5%	1/8W	Car.
5R 4	47 ohms	5%	1/8W	Car.
5R 5	8.2 kohms	5%	1/8W	Car.
5R 6	1.8 kohms	5%	1/8W	Car.
5R 7- 8	680 ohms	5%	1/8W	Car.
5R 9	100 ohms	5%	1/8W	Car.
5R10	390 ohms	5%	1/8W	Car.
5R11	270 ohms	5%	1/8W	Car.
5R12	390 ohms	5%	1/8W	Car.
5R13	100 ohms	5%	1/8W	Car.
5R14-15	3.9 kohms	5%	1/8W	Car.
5R16-17	180 ohms	5%	1/8W	Car.
5R18	220 ohms	5%	1/8W	Car.
5R19-20	100 ohms	5%	1/8W	Car.
5R21	220 ohms	5%	1/8W	Car.
5R22	68 ohms	5%	1/8W	Car.
5R23	180 ohms	5%	1/8W	Car.
5R24	82 ohms	5%	1/8W	Car.
5R25-26	3.9 kohms	5%	1/8W	Car.



5R27	100 ohms	5%	1/8W	Car.
5R28	4.7 kohms	5%	1/8W	Car.
5R29	2.7 kohms	5%	1/8W	Car.
5R30	1 kohm	5%	1/8W	Car.
5R31	680 ohms	5%	1/8W	Car.
5R32	4.7 kohms	5%	1/8W	Car.
5R33	180 ohms	5%	1/8W	Car.
5R34	10 kohms	5%	1/8W	Car.
5R35	2.2 kohms	5%	1/8W	Car.
5R36	100 ohms	5%	1/8W	Car.
5R37	1 kohm	5%	1/8W	Car.

5TR 1- 2 BF185

5X 1	FILTER	939 BB	AM <i>Telex 1.3985 MHz</i>
5X 2	FILTER	939 DB	SSB

PARTS LIST
FOR
LOOP MIXER AND PHASE DETECTOR



14C 1	0.1 μ F	-20/+80%	12V	Cer.
14C 2	10 nF	-20/+80%	30V	Cer.
14C 3	10 nF	-20/+80%	30V	Cer.
14C 4	0.1 μ F	10%	250V	Polyes.
14C 5	0.1 μ F	-20/+80%	12V	Cer.
14C 6	39 pF	5%	400V	Cer.N150
14C 7	33 pF	5%	400V	Cer.N150
14C 8	10 nF	-20/+80%	30V	Cer.
14C 9	10 nF	-20/+80%	30V	Cer.
14C10	4.7 nF	-20/+80%	30V	Cer.
14C11	22 nF	-20/+80%	30V	Cer.
14C12	18 pF	5%	400V	Cer.N150
14C13	0.1 μ F	-20/+80%	12V	Cer.
14C14	10 nF	-20/+80%	30V	Cer.
14C15	0.1 μ F	-20/+80%	12V	Cer.
14C16	10 nF	-20/+80%	30V	Cer.
14C17	0.1 μ F	-20/+80%	12V	Cer.
14C18	0.1 μ F	-20/+80%	12V	Cer.
14C19	0.1 μ F	-20/+80%	12V	Cer.
14C20	0.1 μ F	-20/+80%	12V	Cer.
14C21	47 pF	5%	400V	Cer.N150
14C22	47 pF	5%	400V	Cer.N150
14C23	100 pF	5%	400V	Cer.N150
14C24	22 μ F	20%	15V	Tan.
14C25	0.1 μ F	-20/+80%	12V	Cer.
14C26	100 pF	5%	400V	Cer.N150
14D 1	1S920			
14D 2	1S920			
14D 3	1S920			
14D 4	1S920			
14D 5	1S920			
14D 6	1S920			
14D 7	AAZ 17			
14D 8	AAZ 17			
14D 9-10	1S920			
14IC 1	SL641C			
14L 1	100 μ H	RF CHOKE	10%	
14L 2	100 μ H	RF CHOKE	10%	
14L 3	COIL		SKANTI CODE: R-0241	
14L 4	100 μ H	RF CHOKE	10%	
14L 5	1 ml	RF CHOKE	10%	

PARTS LIST
FOR
FILTERS FOR 4.2-9.8 AND 12.6 MHz



15C 1- 2	22 nF	-20/+80%	30V	Cer.
15C 3- 5	47 nF	-20/+80%	12V	Cer.
15C 6	0.1 μ F	-20/+80%	12V	Cer.
15C 7	330 pF	1%	125V	Polyst.
15C 8	1 nF	1%	125V	Polyst.
15C 9	330 pF	1%	125V	Polyst.
15C10	910 pF	1%	125V	Polyst.
15C11	1.8 pF	± 0.25 pF	400V	Cer.NP0
15C12	5.6 pF	± 0.25 pF	400V	Cer.N150
15C13	270 pF	1%	125V	Polyst.
15C14	0.1 μ F	-20/+80%	12V	Cer.
15C15	330 pF	1%	125V	Polyst.
15C16	1 nF	1%	125V	Polyst.
15C17	330 pF	1%	125V	Polyst.
15C18	910 pF	1%	125V	Polyst.
15C19	2.7 pF	± 0.25 pF	400V	Cer.NP0
15C20-21	47 nF	-20/+80%	12V	Cer.
15C22	330 pF	1%	125V	Polyst.
15C23	1.2 nF	1%	125V	Polyst.
15C24-25	47 nF	-20/+80%	12V	Cer.

15D 1-10 1S920

15L 1	COIL		SKANTI CODE: R-0215
15L 2	COIL	<i>12 Turn 12 x 0.40</i>	SKANTI CODE: R-0216
15L 3	COIL		SKANTI CODE: R-0215
15L 4	COIL	<i>12 Turn 12 x 0.40</i>	SKANTI CODE: R-0216
15L 5	COIL		SKANTI CODE: R-0235
15L 6	COIL		SKANTI CODE: R-0217

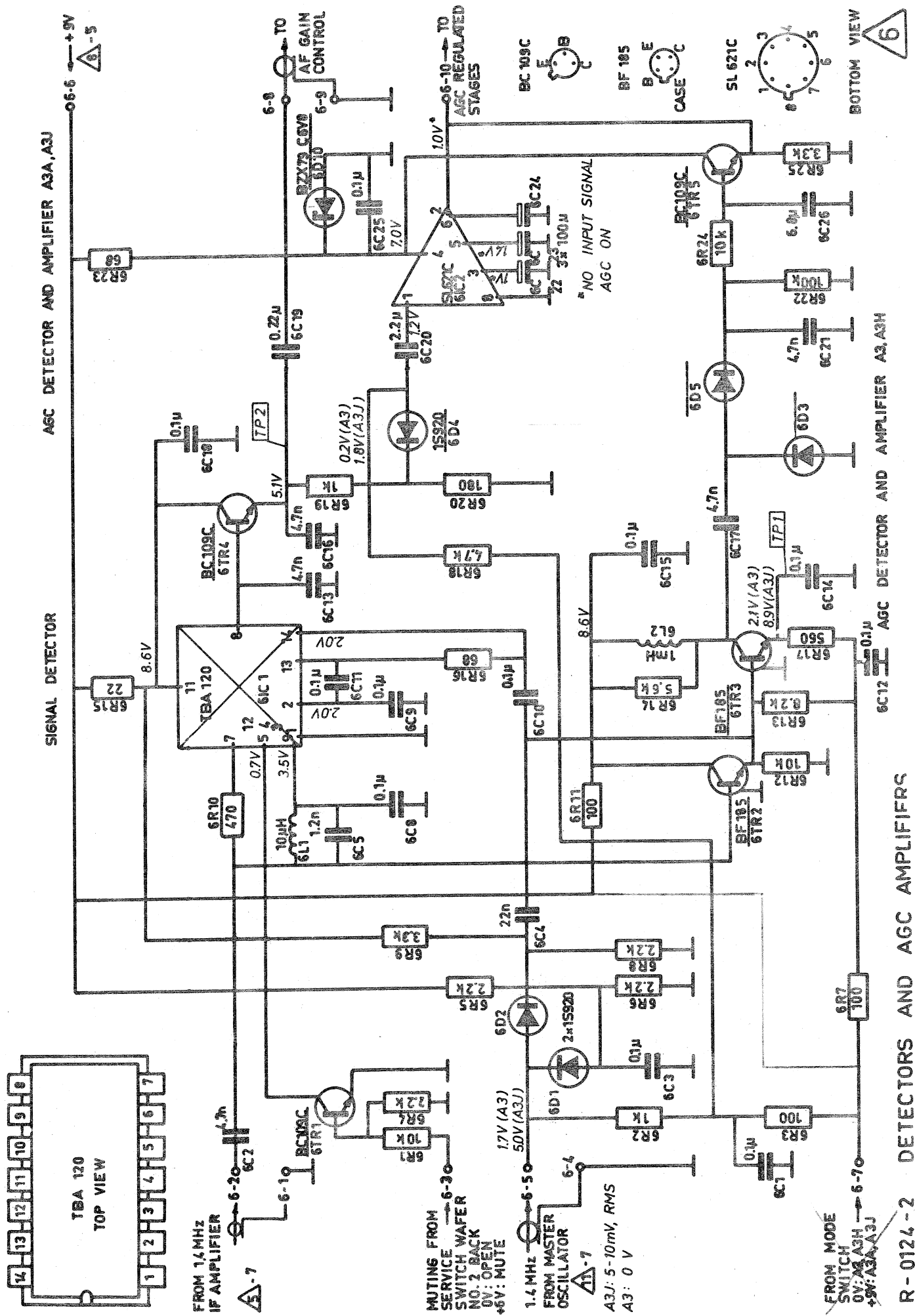
15R 1	18 kohms	5%	1/8W	Car.
15R 2	6.8 kohms	5%	1/8W	Car.
15R 3	3.3 kohms	5%	1/8W	Car.
15R 4	100 ohms	5%	1/8W	Car.
15R 5	1.2 kohms	5%	1/8W	Car.
15R 6- 7	1.5 kohms	5%	1/8W	Car.
15R 8	10 kohms	5%	1/8W	Car.
15R 9	1.5 kohms	5%	1/8W	Car.
15R10	10 kohms	5%	1/8W	Car.
15R11	2.2 kohms	5%	1/8W	Car.
15R12-13	82 ohms	5%	1/8W	Car.
15R14	1.0 kohm	5%	1/8W	Car.
15R15	10 kohms	5%	1/8W	Car.
15R16	82 ohms	5%	1/8W	Car.
15R17-18	2.2 kohms	5%	1/8W	Car.

PARTS LIST
FOR
CHASSIS (electrical parts)



17C 1	15 nF	-20/+80%	400V	Cer.
17C 2	0.1 μ F	10%	250V	Polyes.
17C 3	15 nF	-20/+80%	400V	Cer.
17C 4	47 nF	10%	250V	Polyes.
17C 5	0.1 μ F	10%	250V	Polyes.
17C 6	4.7 nF	\pm 20%	5kV	Cer.
17C 7	47 nF	10%	250V	Polyes.
17C 8	22 nF	-20/+80%	30V	Cer.
17C 9	22 nF	-20/+80%	30V	Cer.
17D 1	388A			
17D 2	388A			
17D 3	1S920			
17D 4	BZX79 C6V8	Zener		
17L 1	1 mH	RF CHOKE	\pm 10%	
17L 2	100 μ H	RF CHOKE	\pm 10%	
17LS 1	8 ohms	0.5W	LOUDSPEAKER	
17PL 1	1 pole connector (plug)		SKANTI CODE: R-0233	
17PL 2	12 pole connector (plug)		XP12	McMurdo
17R 1	10 kohms	5%	1 W	Car.
17R 2	10 kohms	5%	1/8 W	Car.
17R 3	100 ohms	5%	1/8 W	Car.
17R 4	10 kohms	5%	1/8 W	Car.
17R 5	10 kohms	log.	1/3 W	Var.Car.
17R 6	2.2 kohms	5%	1/8 W	Car.
17R 7	10 kohms	lin.	1/3 W	Var.Car.
17R 8	330 ohms	5%	1/8 W	Car.
17R 9	8.2 ohms	5%	1 W	ww
17R 10	10 kohms	lin	1/4 W	Var. Car.
17S 1a,b,c,d	service	ROTARY SWITCH	SKANTI CODE: R-0224	
17S 2a,b,c	band	ROTARY SWITCH	SKANTI CODE: R-0225	
17S 3	mode	ROTARY SWITCH	SKANTI CODE: R-0223	
17S 4	speaker	ROTARY SWITCH	SKANTI CODE: R-0223	
17S 5a,b	channel	ROTARY SWITCH	SKANTI CODE: R-0226	
17SK 1	connector (socket)		BNC UG657/U	
17SK 2	connector (socket)		BNC UG657/U	isol.
17SK 3	4 pole connector (socket)		XS4	McMurdo
17SK 4	Connector (socket) pack SS-1			
17SL 1	LAMP	12V	913 0012	Schurter
17TR 1	2N3055			
17TR 2	2N3055			

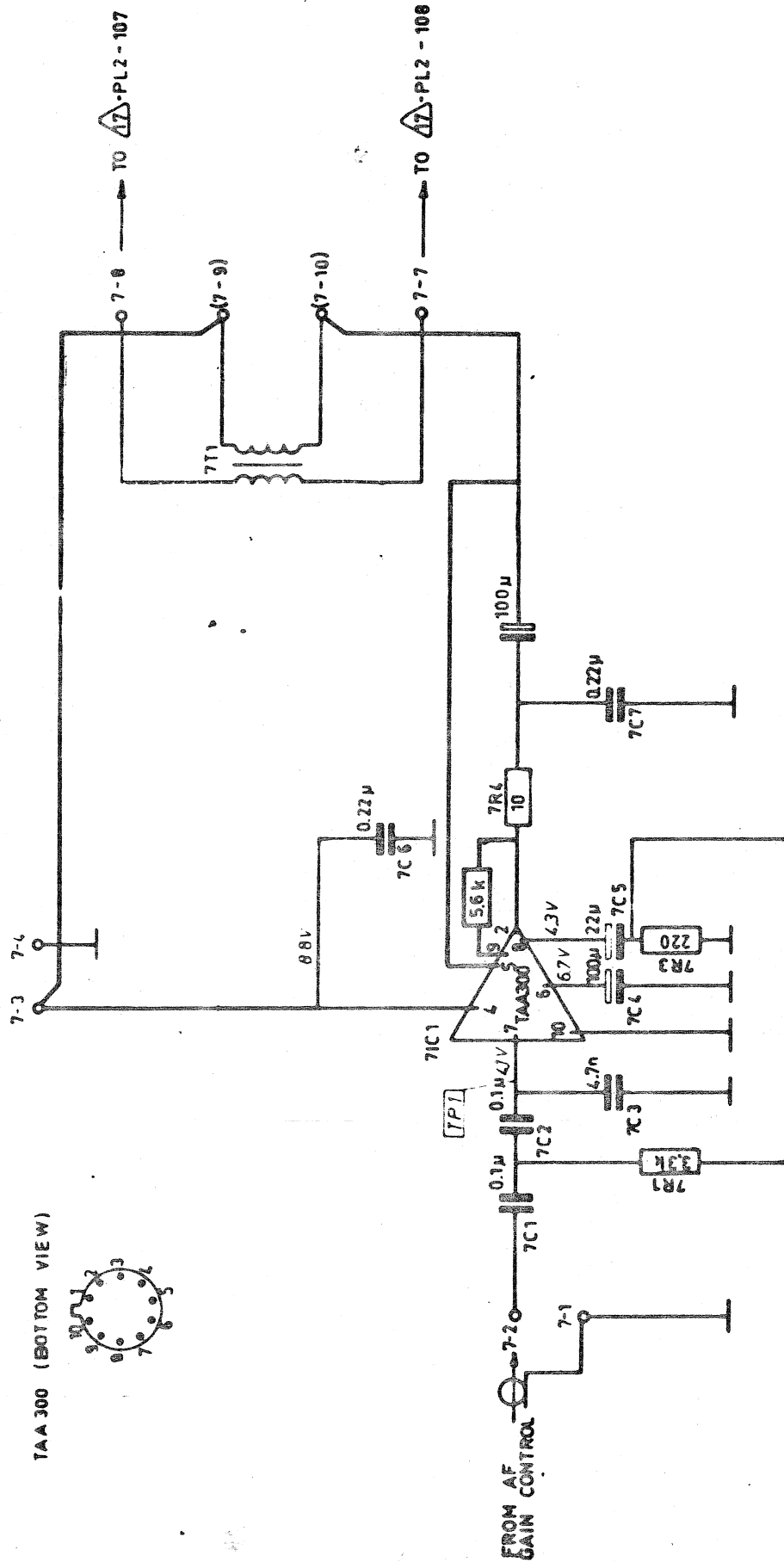






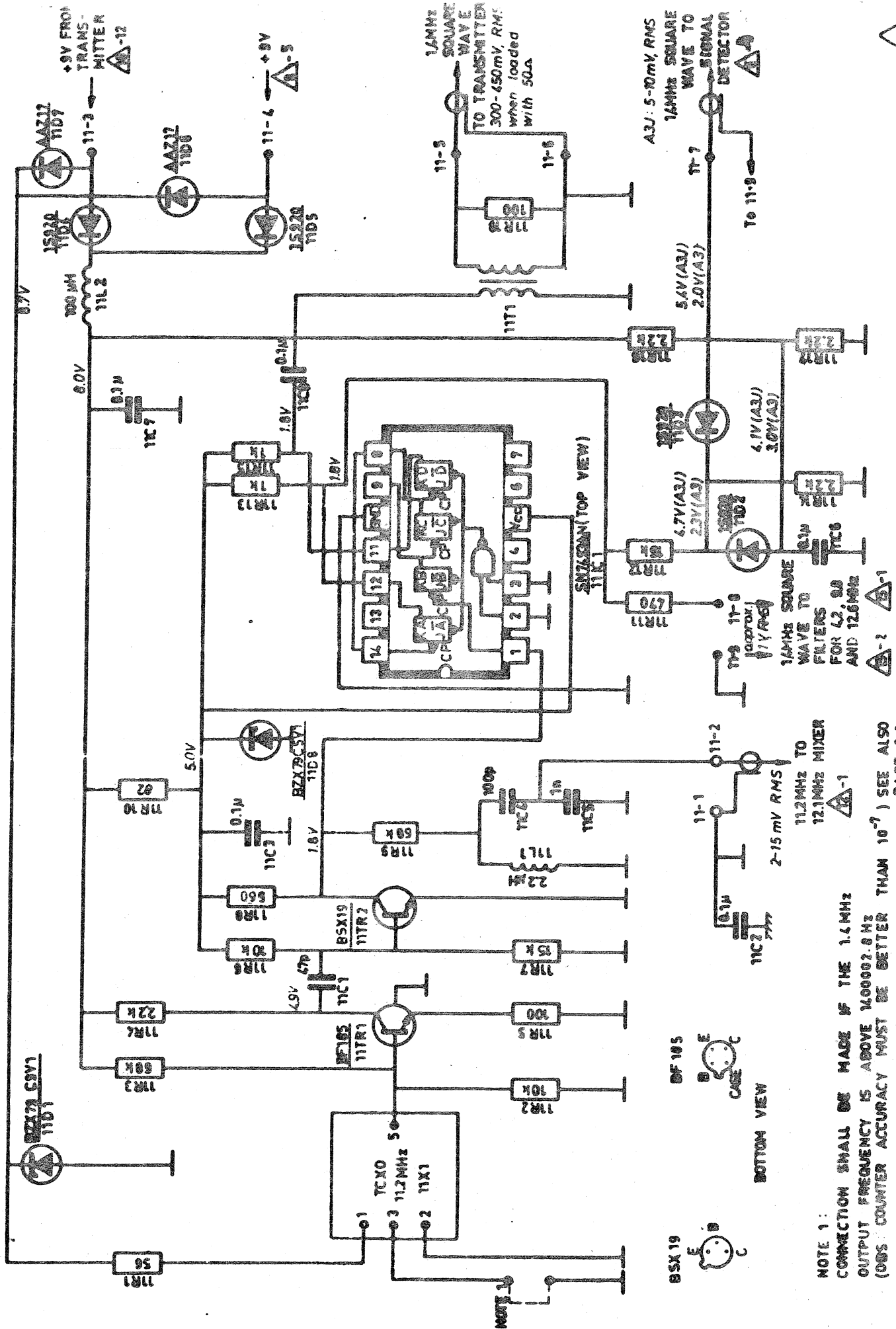
9V

TAA 300 (BOTTOM VIEW)



R-0360-1 AF AMPLIFIER - 600Ω

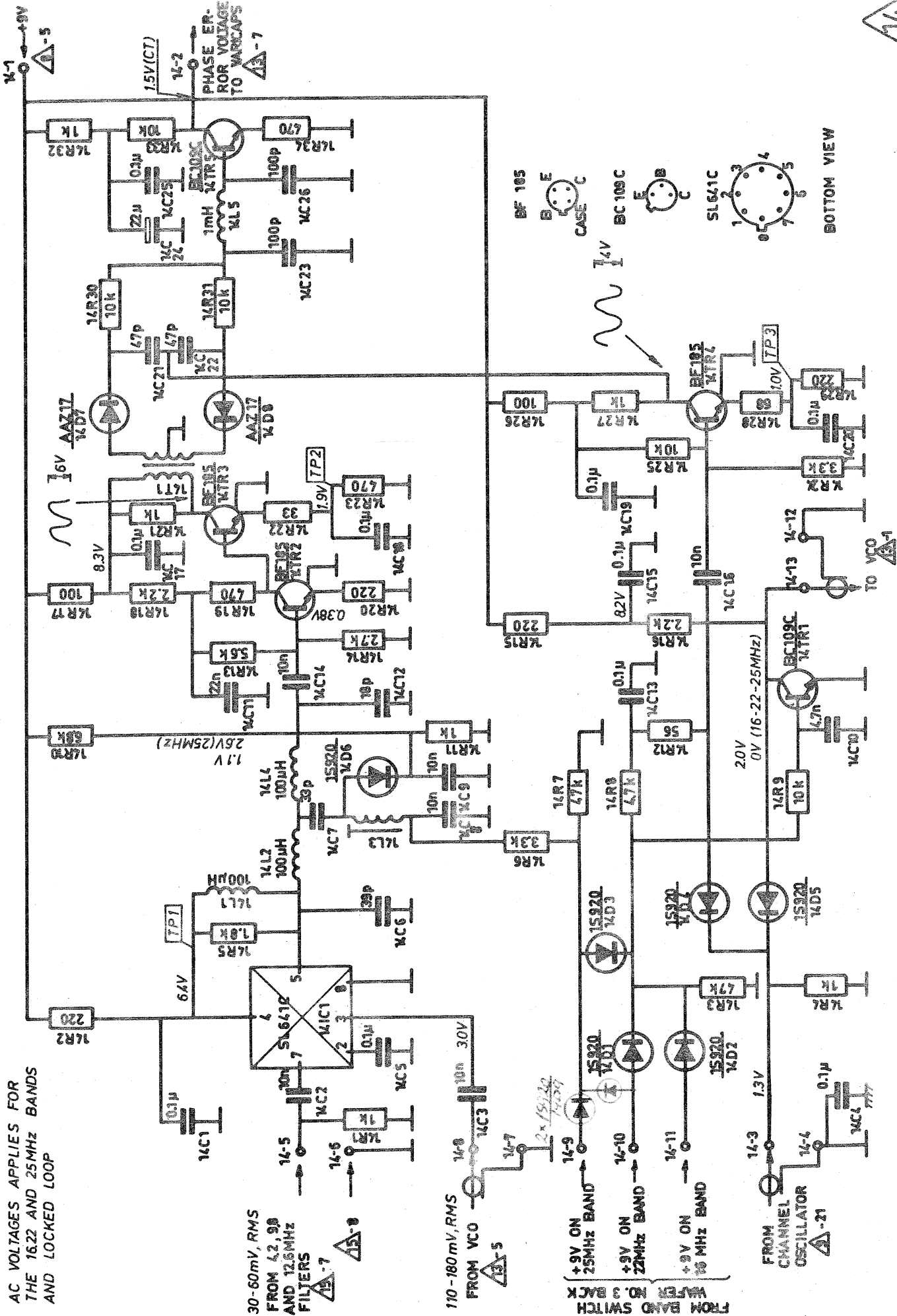
7-mc



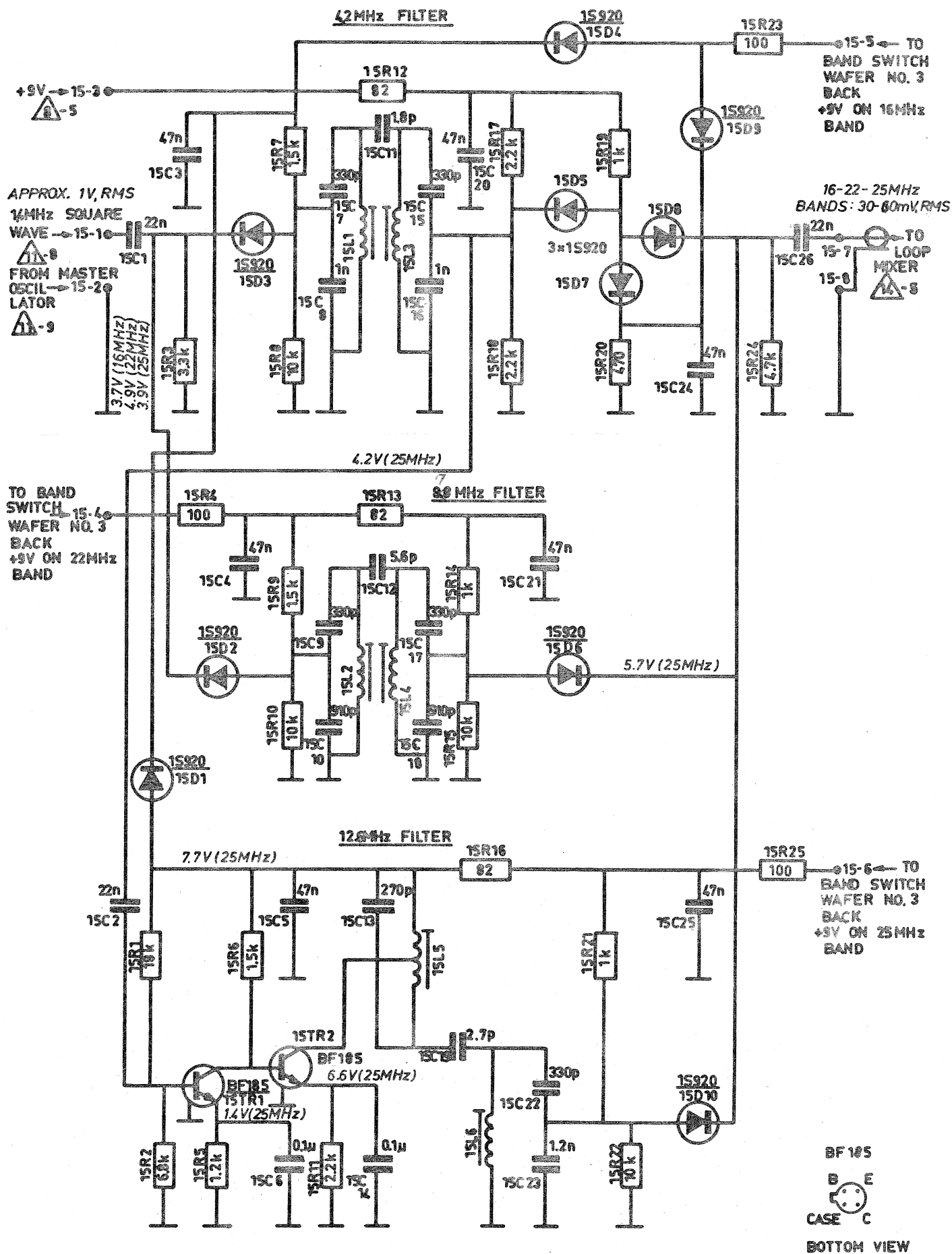
NOTE 1:
 CONNECTION SHALL BE MADE IF THE 1.4MHz
 OUTPUT FREQUENCY IS ABOVE 100002.8MHz
 (DGS COUNTER ACCURACY MUST BE BETTER THAN 10^{-7}) SEE ALSO
 PAGE 2-6

R-0144-3 MASTER OSCILLATOR

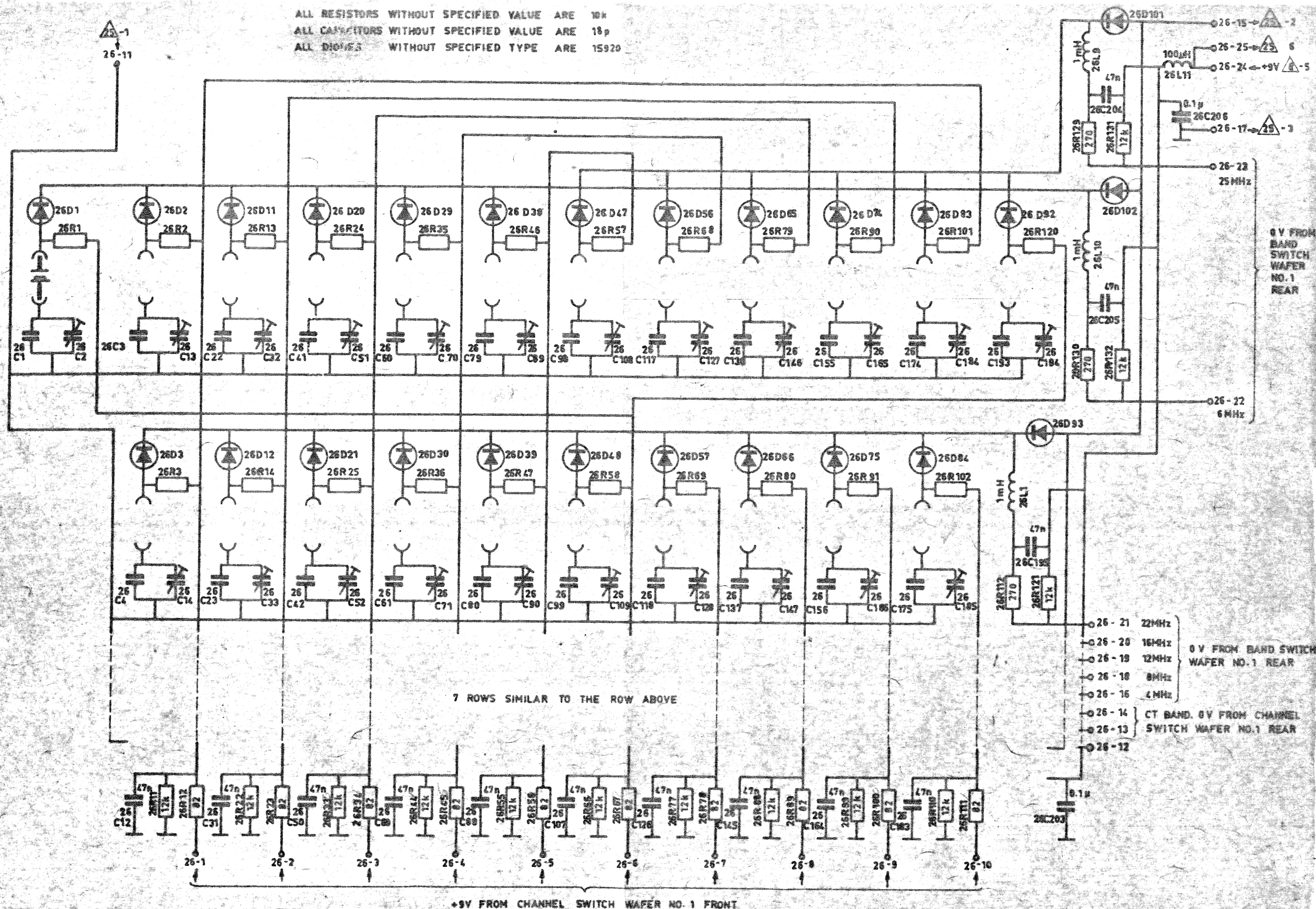
AC VOLTAGES APPLIES FOR
THE 1622 AND 25MHz BANDS
AND LOCKED LOOP



R - 0156 - 1 LOOP MIXER AND PHASE DETECTOR



ALL RESISTORS WITHOUT SPECIFIED VALUE ARE 10K
 ALL CAPACITORS WITHOUT SPECIFIED VALUE ARE 10p
 ALL DIODES WITHOUT SPECIFIED TYPE ARE 15920



0V FROM BAND SWITCH WAFER NO.1 REAR

0V FROM BAND SWITCH WAFER NO.1 REAR

CT BAND, 0V FROM CHANNEL SWITCH WAFER NO.1 REAR

7 ROWS SIMILAR TO THE ROW ABOVE

+9V FROM CHANNEL SWITCH WAFER NO.1 FRONT

BF185



BC109C

BSX19



BOTTOM VIEW

R100B: 26-75

T100B: 33-15

R100B: 26-11

T100B: 33-11

