

Service Document **Exchange Set**

Sono Clock 620 LED
ab Seriennummer 059398
from serial number 059398 on

Service Manual
Sicherheit
Safety
Materialnr./Part No. 720108000000



Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Materialnummer 720108000000, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000000, as well as the respective national deviations.

Alignment Information

Model : GRUNDIG SC620
 Ref. No. : SC620
 Date : 21-Jan-00

A) FM Radio section

1) FM IF

INPUT	SIGNAL	OUTPUT	SET RADIO	ADJUST	ADJUST FOR	REMARK
TP3,2	10.7MHz	TP5,2	Quiet Point	T1,2	Max. o/p symmetrical	Vol. at min. position

2) RF VOLTAGE

BAND	SIGNAL	OUTPUT	SET RADIO	ADJUST	ADJUST FOR	REMARK
FM	--	TP4,2	87.5MHz	L2	1.9 ~ 2.1V	high end 7.5 ~8V

3) FM RF

INPUT	SIGNAL	OUTPUT	SET RADIO	ADJUST	ADJUST FOR	REMARK
TP1,2	90MHz	Speaker	90MHz	L1	Max. o/p	Vol. at max. position
TP1,2	106MHz	" "	106MHz	TC1	" "	" "

4) 75KHZ CRYSTAL

		OUTPUT		ADJUST	ADJUST FOR	REMARK
		TP6,7		TC2	75K_ 10HZ	

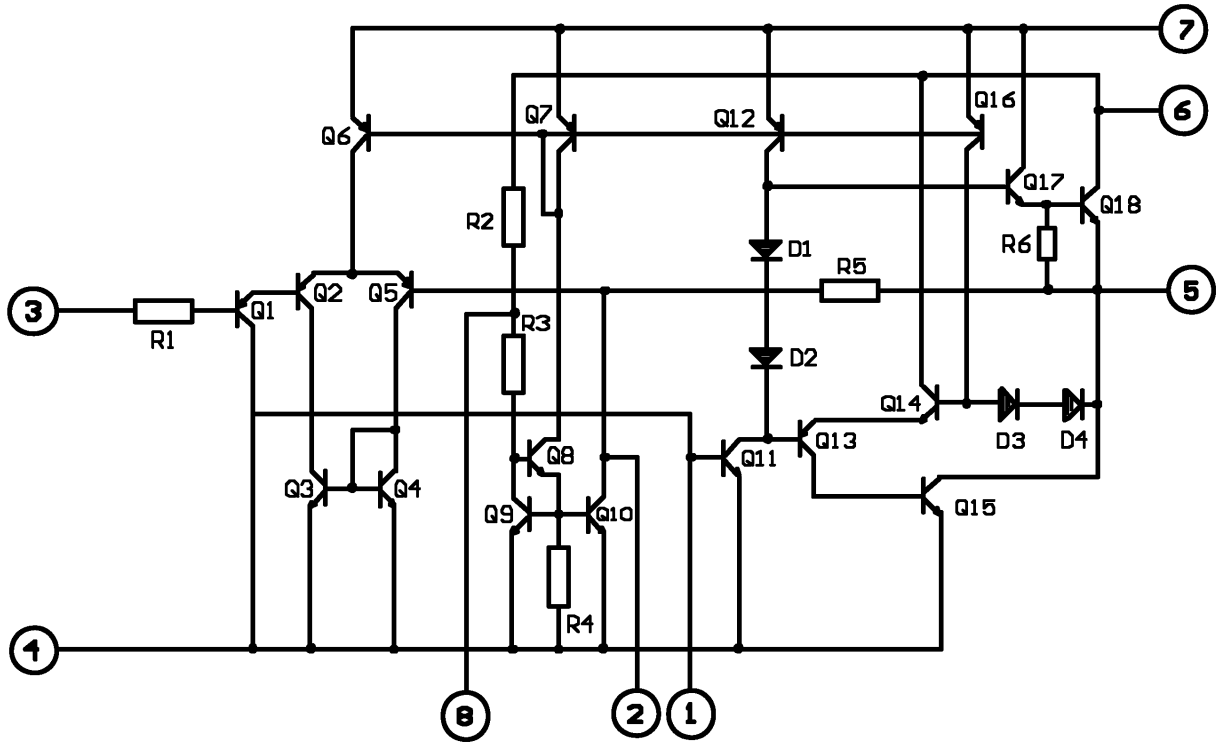
5) 4.332MHZ CRYSTAL

		OUTPUT		ADJUST	ADJUST FOR	REMARK
		TP8,9		TC3	4.332M_ 10HZ	

Note :

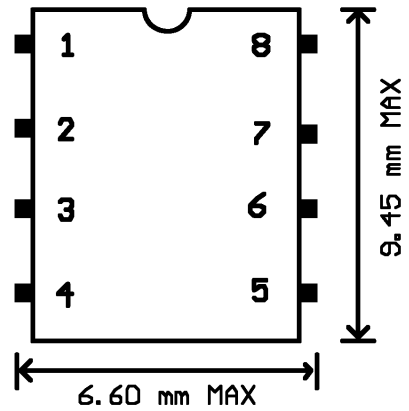
1. Use a digital meter to measure each required voltage on above items
2. Use weak signal in RF alignment
3. Radio & LCD board must be connected before alignment
4. Use the frequency counter to measure each required frequency on above items.

BLOCK DIAGRAM OF IC1, KA2201

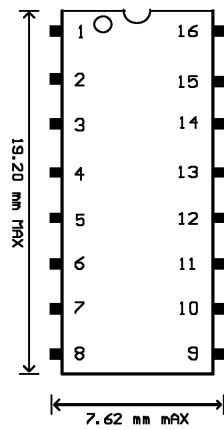
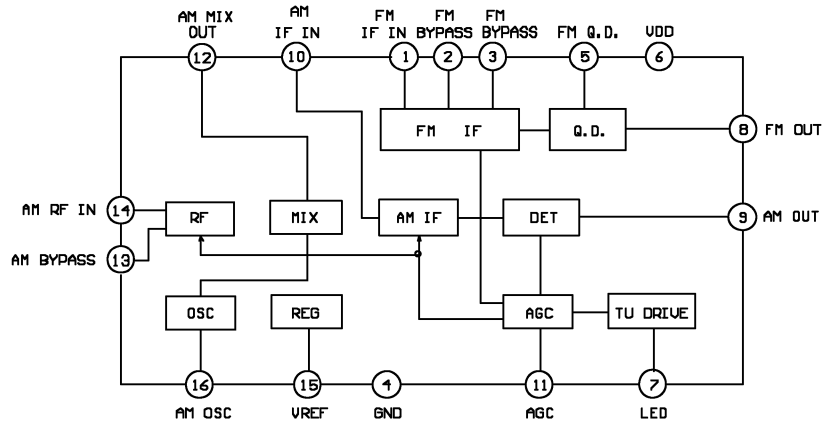


CONNECTION DIAGRAM

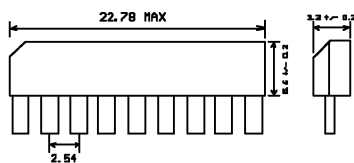
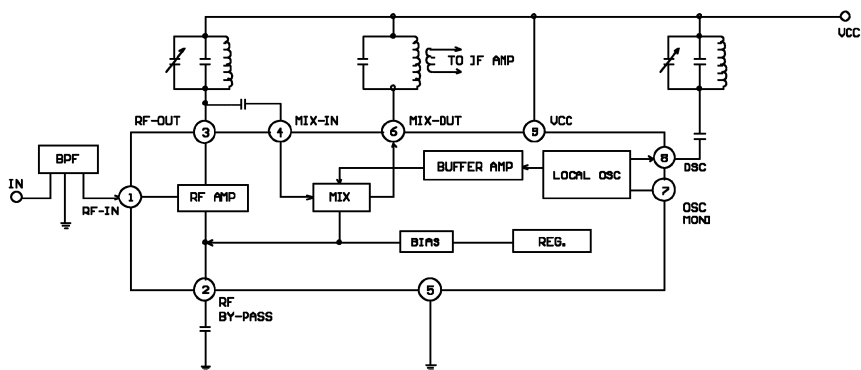
PIN NO.	CONNECTION
1	-----
2	-----
3	INPUT
4	GND
5	OUTPUT
6	UCC
7	-----
8	-----

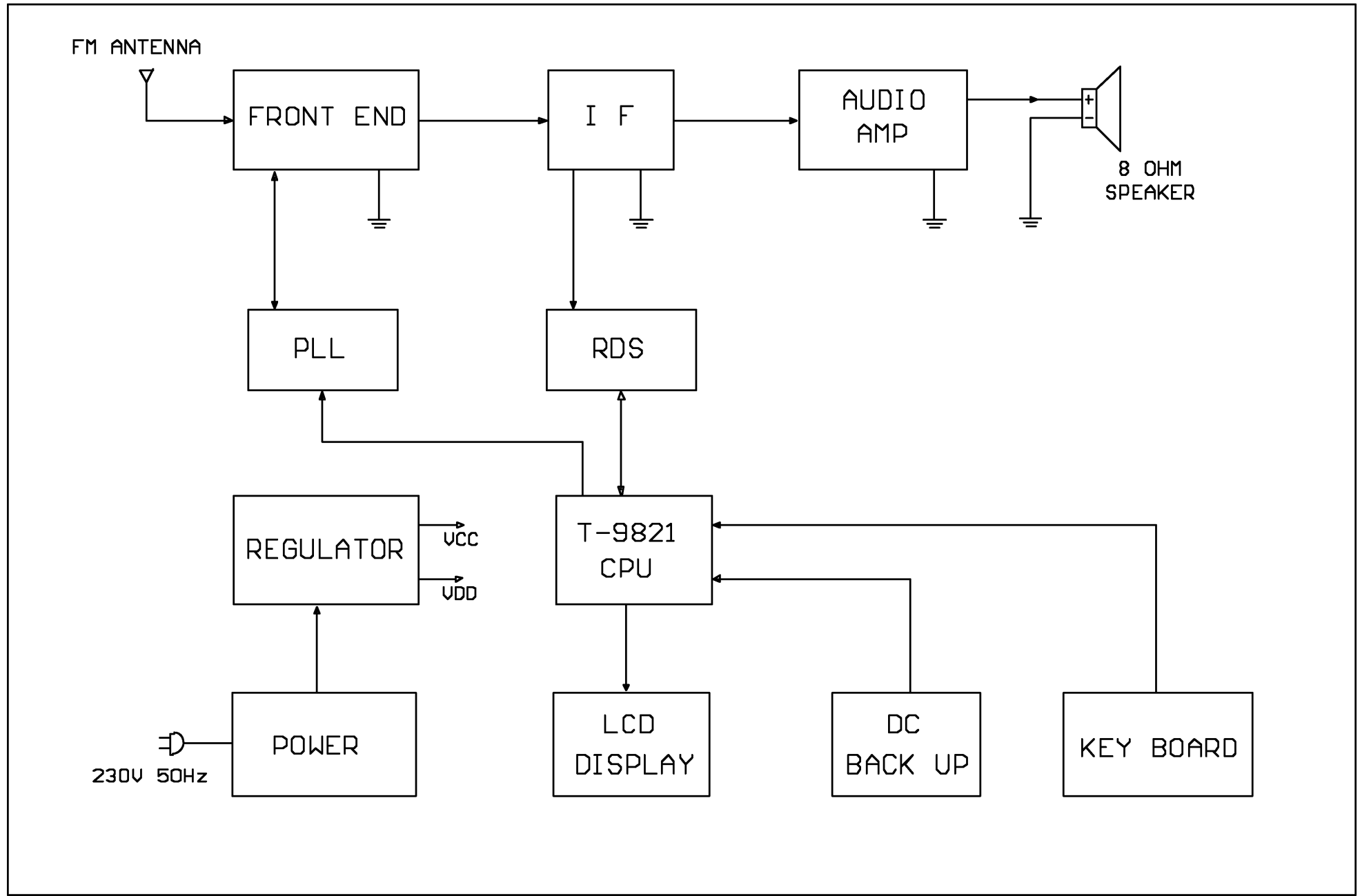


BLOCK DIAGRAM OF IC3, LA1260

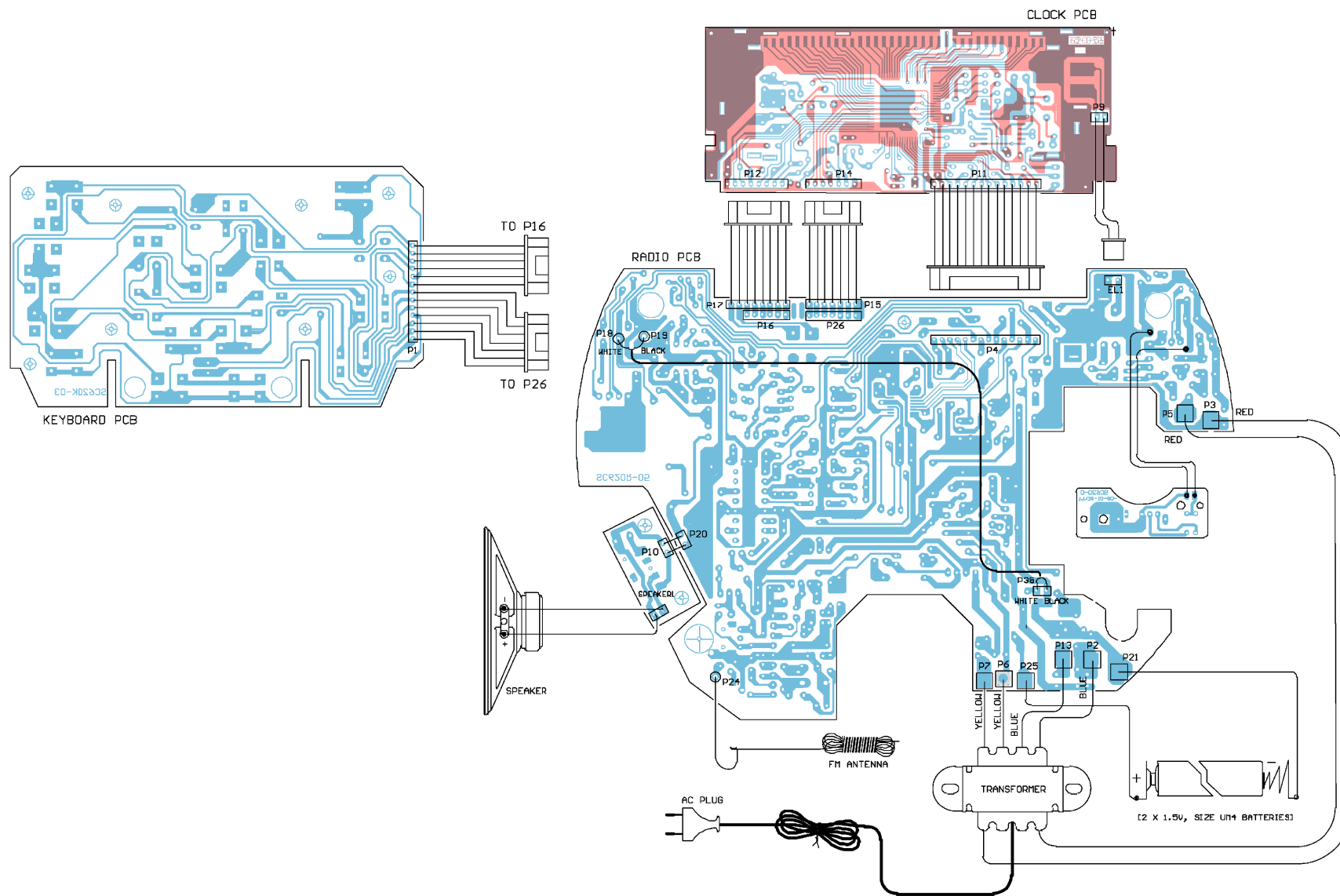


BLOCK DIAGRAM OF IC1, TA7358

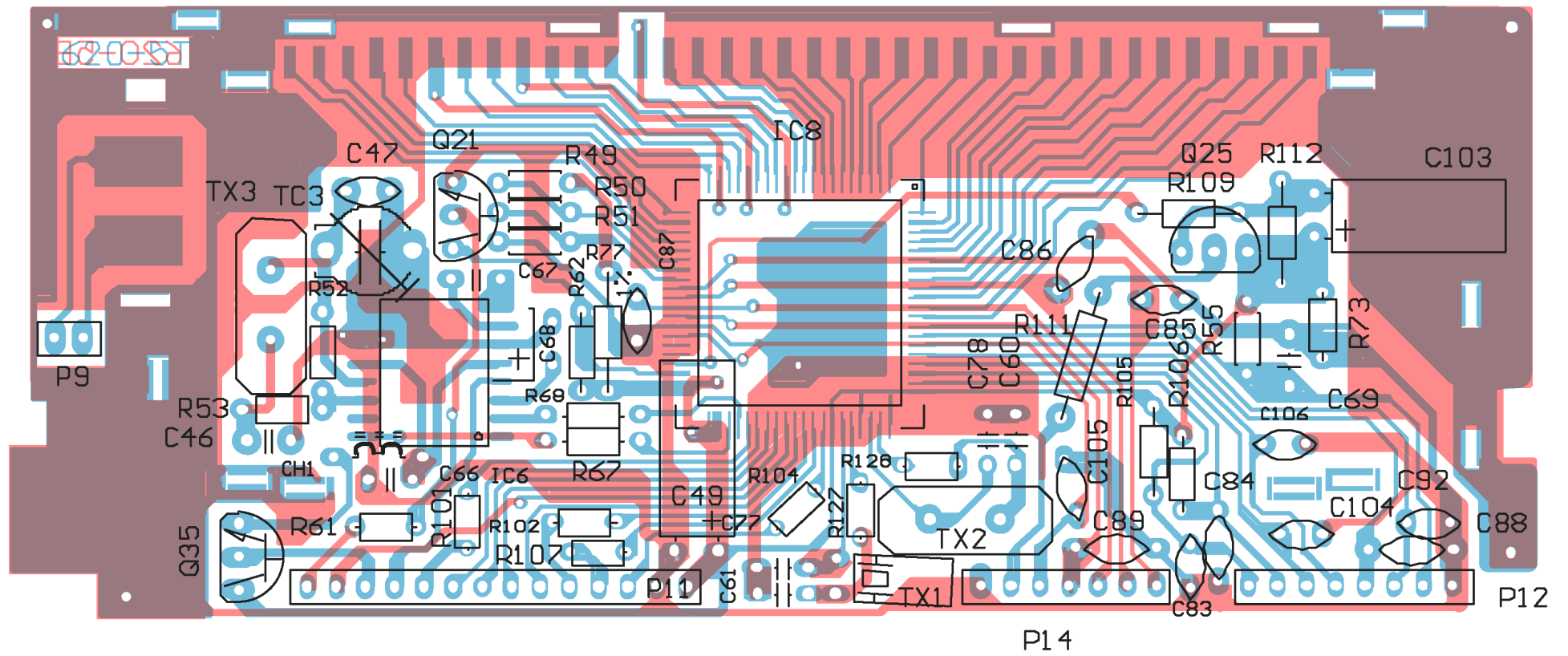


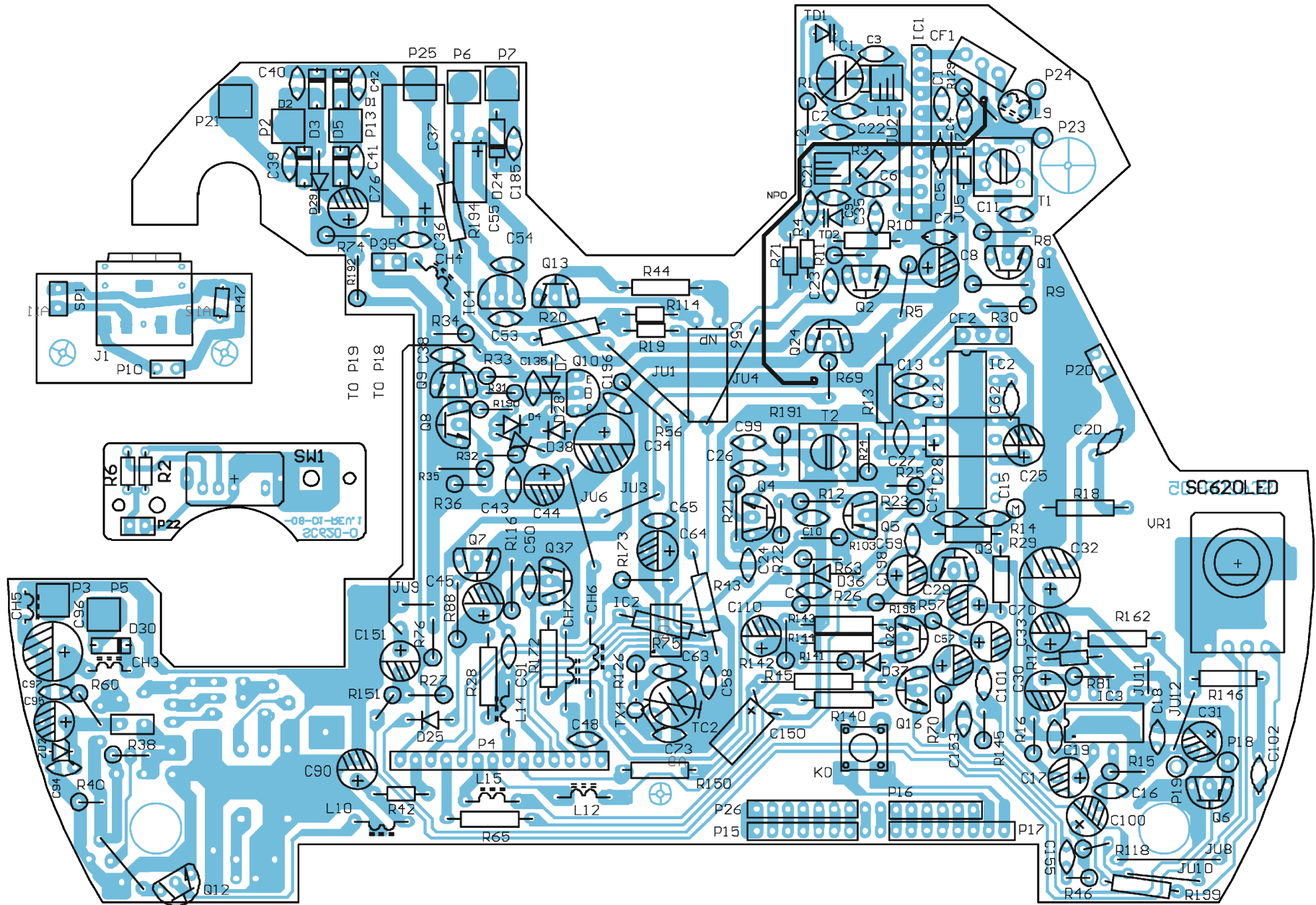


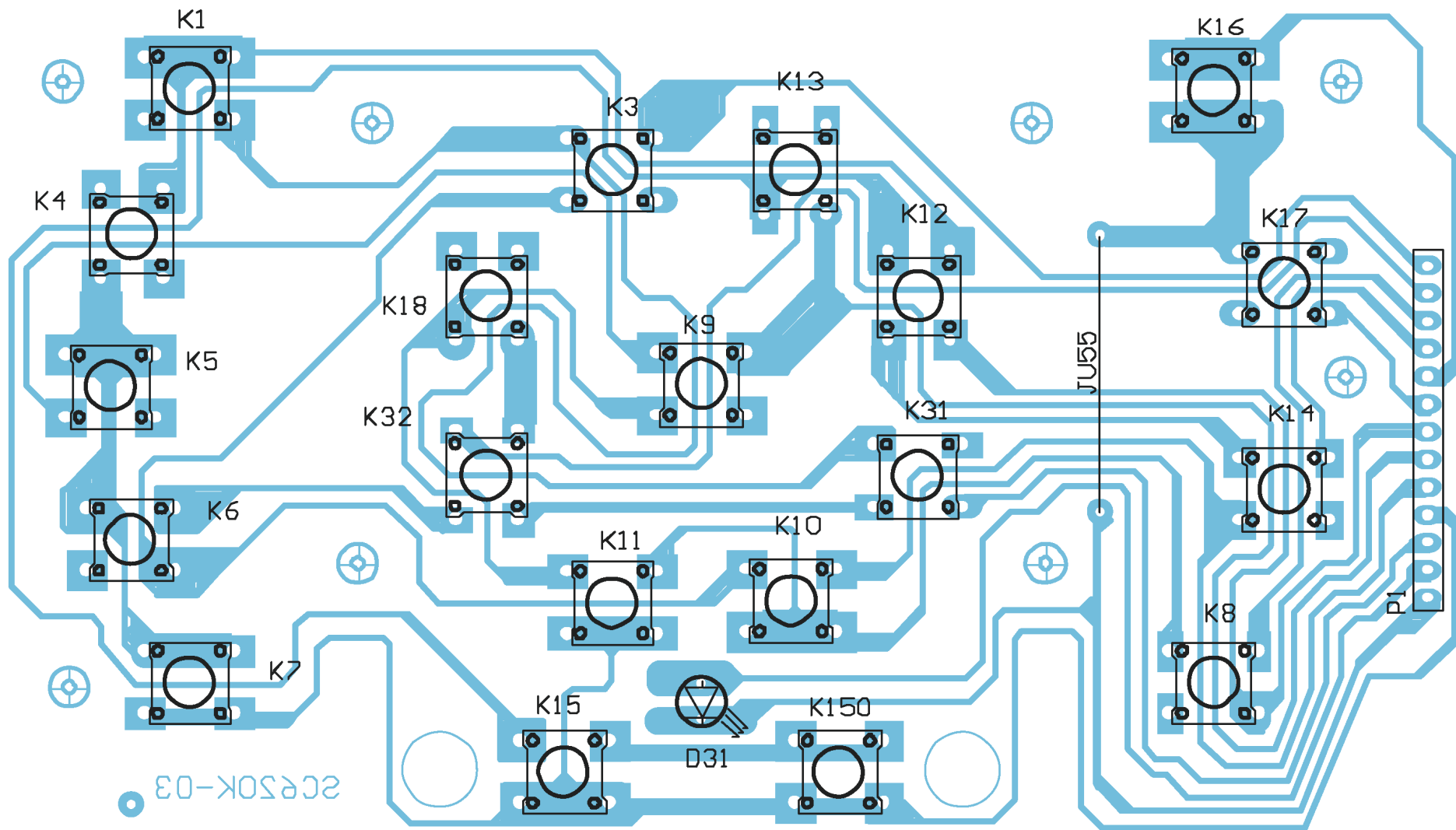
GRUNDIG SC620 WIRING DIAGRAM

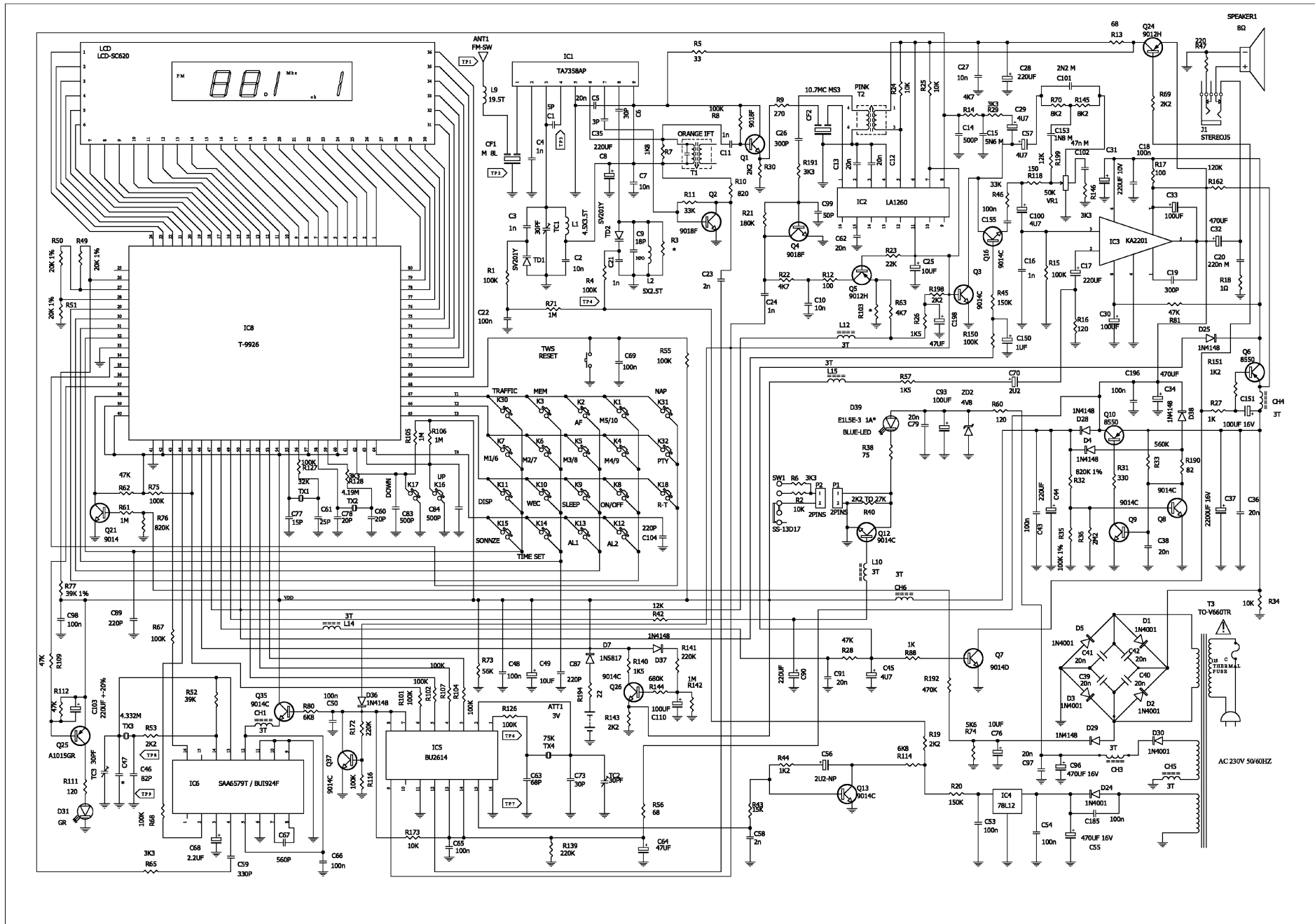


FS-03-09









VOLTAGE TABLE OF MODEL : GRUNDIG SC620 (UNITS = VOLTS)

DATE : 21 Jan 00

COMPONENTS : IC'S

IC 1, TA7358AP	
AT POWER ON CONDITION	
PIN NO.	V-OUT (Volts)
1	0,53
2	1,24
3	5,38
4	1,23
5	0
6	5,36
7	4,72
8	5,33
9	5,36

IC 3, KA2201	
AT POWER ON CONDITION	
PIN NO.	V-OUT (Volts)
1	0,64
2	0,6
3	0
4	0
5	6,16
6	11,65
7	11,5
8	6,91

IC 2, LA1260	
AT POWER ON CONDITION	
PIN NO.	V-OUT (Volts)
1	1,54
2	1,54
3	1,54
4	0
5	4,95
6	4,69
7	0,65
8	1,57
9	1,45
10	1,54
11	1,41
12	3,4
13	0
14	-2,45
15	2,41
16	2,28

IC 4, 78L12	
AT POWER ON CONDITION	
PIN NO.	V-OUT (Volts)
1	18,95
2	0
3	12,15

IC 5, BU2614	
AT POWER ON CONDITION	
PIN NO.	V-OUT (Volts)
1	2,64
2	1,82
3	0,06
4	5,01
5	0,08
6	0
7	5,32
8	5,32
9	0,01
10	0
11	0
12	2,58
13	5,46
14	5,46
15	0,56
16	0

VOLTAGE TABLE OF MODEL : GRUNDIG SC620 (UNITS = VOLTS)

DATE : 21 Jan 00

COMPONENTS : IC'S

IC 6, SAA6579T	
AT POWER ON CONDITION	
PIN NO.	V-OUT (Volts)
1	4,58
2	1,8
3	2,29
4	2,28
5	4,58
6	0
7	2,27
8	2,34
9	0
10	0
11	0
12	4,57
13	2,29
14	2,32
15	2,29
16	2,29

IC 8, T98F1							
AT POWER ON CONDITION (V-OUT = VOLTS)							
PIN NO.	V-OUT	PIN NO.	V-OUT	PIN NO.	V-OUT	PIN NO.	V-OUT
1	1,49	21	1,51	41	4,99	61	4,99
2	1,49	22	1,51	42	4,99	62	4,99
3	1,51	23	1,51	43	2,15	63	3,64
4	1,51	24	1,51	44	1,6	64	4,7
5	1,49	25	5	45	0,16	65	4,73
6	1,52	26	3,01	46	0	66	4,74
7	1,52	27	2,02	47	0	67	4,75
8	1,5	28	1,01	48	4,99	68	4,82
9	1,49	29	0	49	0	69	1,5
10	1,5	30	0	50	0	70	1,5
11	1,5	31	0	51	0	71	1,51
12	1,48	32	0	52	4,99	72	1,49
13	1,49	33	0	53	0	73	1,5
14	1,51	34	0	54	4,99	74	1,5
15	1,5	35	0	55	1,48	75	1,35
16	1,5	36	0	56	2,54	76	1,5
17	1,51	37	4,99	57	4,99	77	1,5
18	1,5	38	0,05	58	2	78	1,5
19	1,51	39	5	59	2,89	79	1,5
20	1,5	40	5	60	4,99	80	0

VOLTAGE TABLE OF MODEL : GRUNDIG SC620 (UNITS = VOLTS)

DATE : 21 Jan 00

COMPONENTS : TRANSISTORS

MEASURED CONDITION : AT POWER ON

Q1	9018F
C	5,32
B	3,41
E	2,7

Q8	9014C
C	0,55
B	0,5
E	0

Q19	902H
C	1,05
B	3,37
E	3,4

Q2	9018F
C	2,5
B	0,77
E	0

Q9	9014C
C	10,96
B	0,55
E	0

Q20	9013
C	10,1
B	4,04
E	3,4

Q3	9014C
C	0
B	0
E	0

Q10	8550
C	5,68
B	11,07
E	11,7

Q21	9014
C	0,05
B	0,57
E	0

Q4	9018F
C	0
B	0
E	0

Q12	9013
C	0
B	0
E	2,85

Q24	9012H
C	5,64
B	4,91
E	5,67

Q5	9012H
C	0
B	0,6
E	0

Q13	9014C
C	1,47
B	0,55
E	0

Q25	A10156R
C	4,98
B	1,02
E	4,99

Q6	8550
C	11,68
B	10,82
E	11,72

Q16	9014C
C	0,3
B	0
E	0

Q26	9014C
C	0
B	0,07
E	0

Q7	9014D
C	0,1
B	0,7
E	0

Q18	9013
C	1,05
B	0,35
E	0

Q35	9014C
C	4,99
B	5,24
E	4,58

Q37	9014C
C	5,23
B	0,11
E	0

