Service
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ServiceManual

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PHILIPS

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CS 58 145

5405

Technical data

Mains voltage	: 160-276 V (± 10%); 50/60 Hz (± 5%) : 90-140V, 160-276 (± 10%) 50/60 Hz (± 5%) : (for multivoltage)
Power cons. at 230V~	: 25" 90W (stand-by ≤ 10W) : 29" 90W (stand-by ≤ 10W)
Aerial input impedance	: 75Ω - coax
Min. aerial input VHF	: 35μV
Min. aerial input UHF	: 40μV
Max. aerial input VHF/UHF	: 100mV
Pull-in range colour sync	: ± 300Hz
Pull-in range horizontal sync	: ± 600Hz
Pull-in range vertical sync	: ± 5Hz
Picture tube range	: 25" A59JMZ140X : 29" M68JUA125X
TV Systems	: Multi PAL/SECAM B/G/D/K/K1 : NTSC 3.58 and NTSC 4.43 : Dependent on stroke number.
Indications	: On Screen Display (OSD) : 1- LED (◐, ⏻, RC5)
VCR programs	: 0 - 59
Tuning and operating system	: ▭ ⟶ UV916 PLL : Band I: 47 - 170 MHz : Band II: 170 - 450 MHz : UHF: 450 - 861 MHz
Local operating functions	: ◐, ◿, ±P, HUE ±, ◑ ±, ▭ ±, ◇/◇, ▶▶

Connecting Facilities

Specification of the terminal sockets

SCART rear

1 - Audio ⊖ R (0.5V RMS ≤ 1kΩ)
2 - Audio ⊕ R (0.5V RMS ≥ 10kΩ)
3 - Audio ⊖ L (0.5V RMS ≤ 1kΩ)
4 - Audio mass
5 - Blue mass
6 - Audio ⊕ L (0.5V RMS ≥ 10kΩ)
7 - Blue ⊕ ($0.7V_{pp}$/75Ω)
8 - n.c.
9 - Green mass
11 - Green ⊕ ($0.7V_{pp}$/75Ω)
13 - Red mass
15 - Red ⊕ ($0.7V_{pp}$/75Ω)
16 - n.c.
17 - mass
18 - CVBS mass
19 - CVBS ⊕ ($1V_{pp}$/75Ω)
20 - CVBS ⊖ ($1V_{pp}$/75Ω)
21 - Earth screen

Various rear

3,5mm 2 x 8W/8Ω for L.S.

front

6.3mm 8- 1000 Ω

CINCH front

Cinch CVBS ⊕ $1V_{pp}$/75Ω

Cinch Audio ⊕ 0,5V RMS ≥ 10kΩ

S-VHS rear

1 - ⊥
2 - ⊥
3 - Y: ⊕ $1V_{pp}$/75Ω
4 - C: ⊕ $300mV_{pp}$/75Ω

Cinch Audio ⊕ L 0,2-2V RMS ≥ 10kΩ

Cinch Audio ⊕ R 0,2-2V RMS ≥ 10kΩ

Warnings

1. A set to be repaired should always be connected to the mains via a suitable isolating transformer.

2. Safety regulations demand that the set be restored to its original condition and that the components identical to the original types be used. Safety components are marked by the symbol ⚠.

3. To prevent damage to IC's and transistors any flash-over of the EHT should be avoided. To prevent damage to the picture tube the method, indicated in Fig. 3.1, has to be applied to discharge the picture tube. Make use of an EHT probe and a universal meter (position DC-V). Discharge until the reading of the meter is OV (after approx 30s).

4. ESD

   All IC's and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.
   When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools on the same potential.

5. The deflection and multipole units have been adjusted in an optimum way in the factory. Adjustment of these units during repair is thus not recommended.

6. **Removing the EHT cable.**
   After removal of the tule and nip out of the clamping rings N with a screwdriver or side-cutting pliers, the EHT cable may be pulled off the line output transformer (see Fig.3.2). When refitting the cable, first press the clamping ring onto the transformer until a click is heard; after this the cable may be pressed home. Make sure that the cable is pressed down well.

7. Proceed with care when testing the EHT section and the picture tube.

8. Never replace any modules or any other parts while the set is switched on.

9. Wear safety goggles during replacement of the picture tube.

10. Use plastic instead of metal alignment tools. This in order to preclude short-circuit or to prevent a specific circuit from being rendered unstable.

11. Upon a repair of a transistor or IC assembly i.e. a transistor or IC with heatsink and spring remounting should be carried out in the following order:
    - Transistor or IC on heatsink with spring.
    - Mount assembly and resolder the joints at last.

Notes

1. The direct voltages and waveforms should be measured relative to the nearest earthing point on the printed circuit board.

2. The DC voltages and oscillograms are where necessary measured with (⊓) and without (⊼) aerial signal, minimum brightness and maximum saturation and contrast (see diagrams). Voltages and oscillograms in the power supply section have been measured for both normal operation (⏻) and in the stand-by mode (⏻). As an input signal a colour bar pattern has been used.

3. The CRT board is provided with printed spark gaps. Each spark gap is arranged between an electrode of the CRT and the aquadag coating.

4. Connectors used for the modules (board to board) are gold-plated and must be replaced by the same type only.

5. The accessibility of the circuits on plugged boards can be increased through application of extension printed circuit boards.
   Code numbers of extension printed circuit boards:
   5-fold 4822 395 30261
   6-fold 4822 395 30259
   8-fold 4822 214 31402

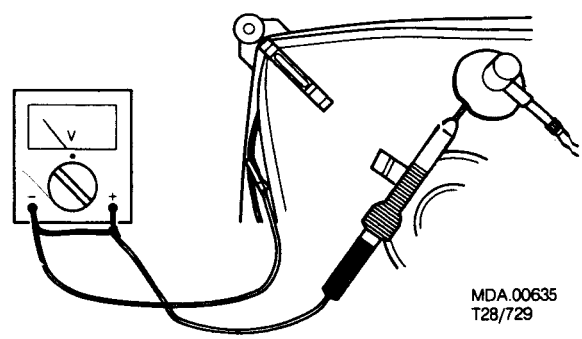


Fig. 3.1

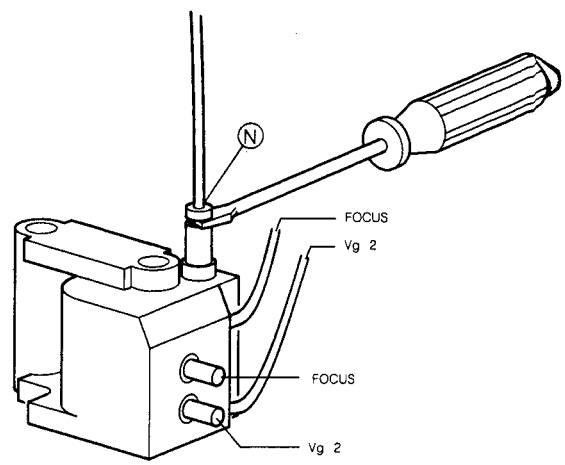


Fig. 3.2

Mechanical instructions

1. Service position

To facilitate troubleshooting and repairing the set, the chassis can, after disconnecting the degaussing cable, be pulled out of the cabinet, turned 180°, and placed behind the set on the LOT side of the chassis.

2. Servicing of SMD's (Surface Mounted Devices)

2.1 General cautions on handling and storage.

a. Oxidation on the SMD's terminals results in poor soldering. Do not handle SMD's with bare hands.
b. Avoid for storage places with sulfur or chlorine gas, direct sunlight, high temperatures or a high degree of humidity. As a result the capacitance or resistance value of the SMD's may be affected.
c. Rough handling of circuit boards containing SMD's may cause damage to the components as well as the circuit boards. Circuit boards containing SMD's should never be bent or flexed. Different circuit board materials expand and contract at different rates when heated or cooled and the components and/or solder connections may be damaged due to the stress. Never rub or scrape SMD components as this may cause the value of the component to change. Similarly, do not slide the circuit board across any surface.

2.2 Removal of SMD's

a. Heat the solder (for 2-3 seconds) at each terminal of the SMD. Small components can, by means of litze wire and a limited horizontal force, be removed with the soldering iron. They can also be removed with a solder sucker (see Fig. 4.1A) or.
b. While holding the SMD with a pair of tweezers take it off gently using the soldering iron's heat applied to each terminal (see Fig. 4.1B).
c. Remove the excess solder on the solder lands by means of litze wire or a solder sucker (see Fig. 4.1C).

Caution on removal:

a. When handling the soldering iron, use suitable pressure and be careful.
b. When removing the SMD, do not use undue force with the pair of tweezers.
c. The soldering iron to be used (approx. 30W), must preferably be provided with a thermal control (soldering temperature about 225 to 250° C)
d. The SMD, once removed, must **never** be used again.

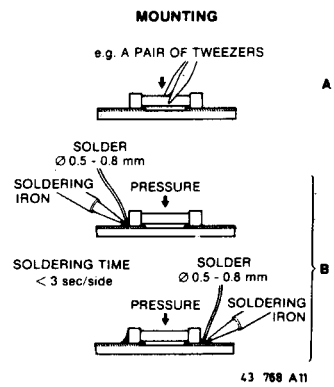


Fig. 4.2

2.3 Attachment of SMD's

a. Locate the SMD on the solder lands by means of tweezers and solder the component at one side. Ensure that the component is positioned well on the solder lands (see Fig. 4.2A).
b. Next complete the soldering of the terminals of the component (see Fig. 4.2B).

Caution on attachment:

a. When soldering the SMD terminals, do not touch them directly with the soldering iron. The soldering must be as quick as possible; care must be taken to avoid damage to the terminals and the body itself.
b. Keep the SMD's body in contact with the printed board when soldering.
c. The soldering iron to be used (approx. 30W) must preferably be provided with a thermal control (soldering temperature about 225 to 250°C).
d. Soldering should not be done outside the solder land.
e. Soldering flux (of rosin) may be used but should not be acidic.
f. After soldering, let the SMD cool down gradually at room temperature.
g. The quantity of solder must be proportional with the size of the solder land. If the quantity is too great, the SMD might crack or the solder lands might be torn loose from the printed board (see Fig. 4.3).

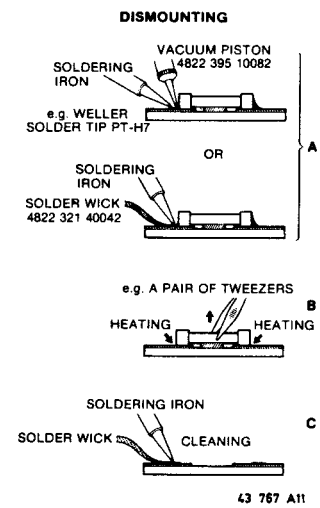


Fig. 4.1

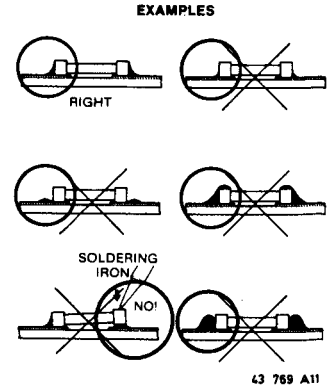
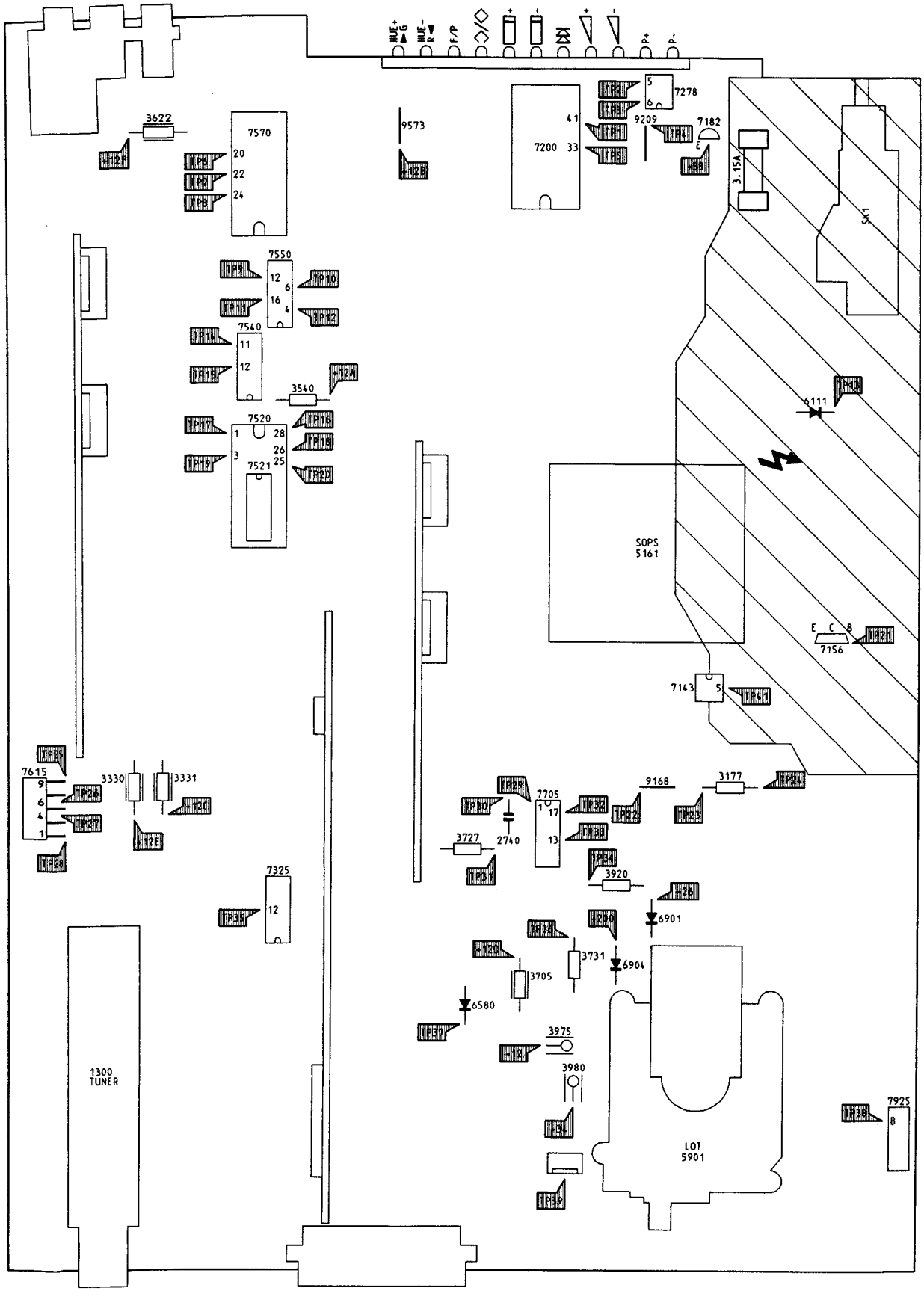


Fig. 4.3

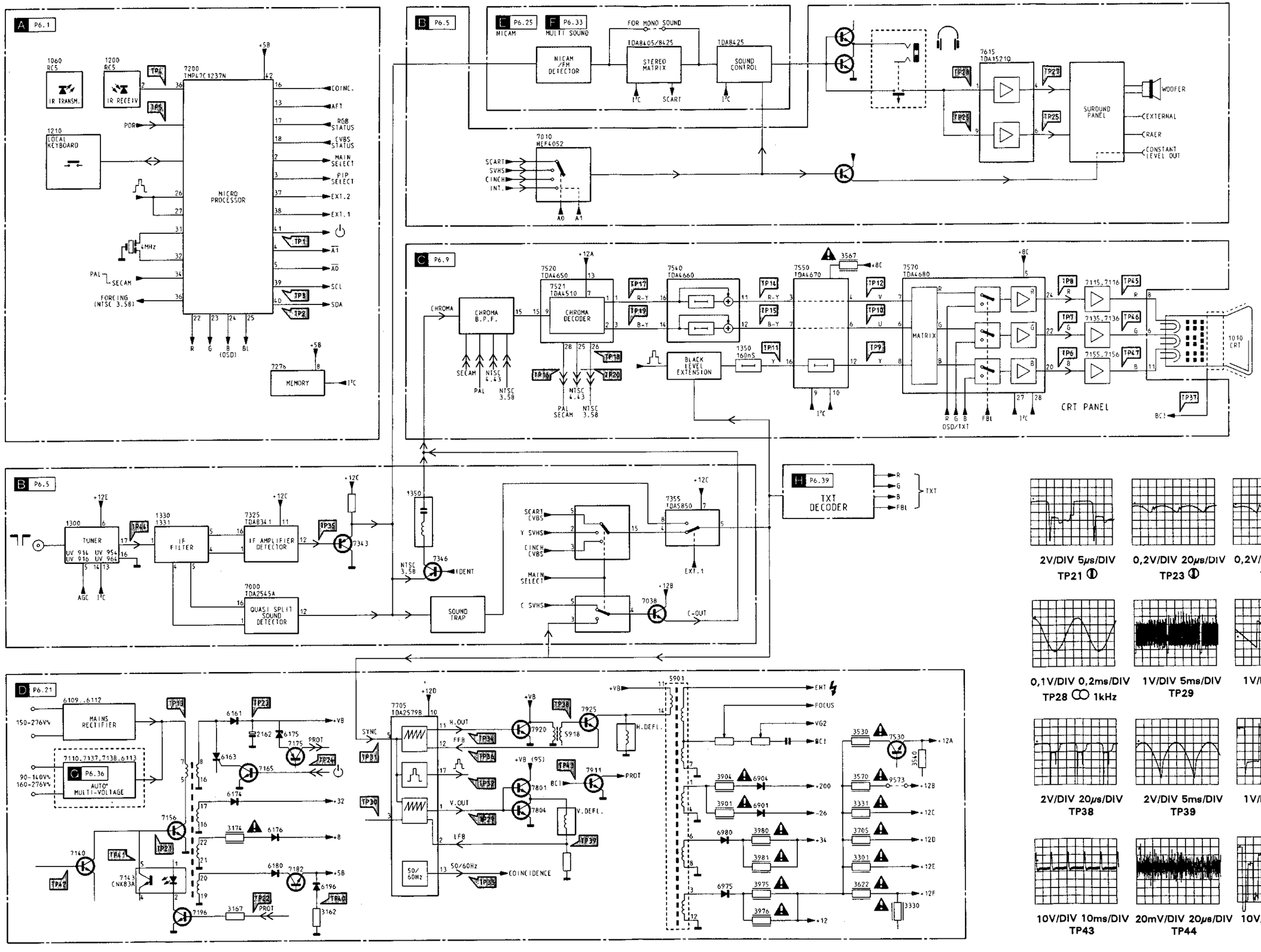
5.1 CHASSIS G112

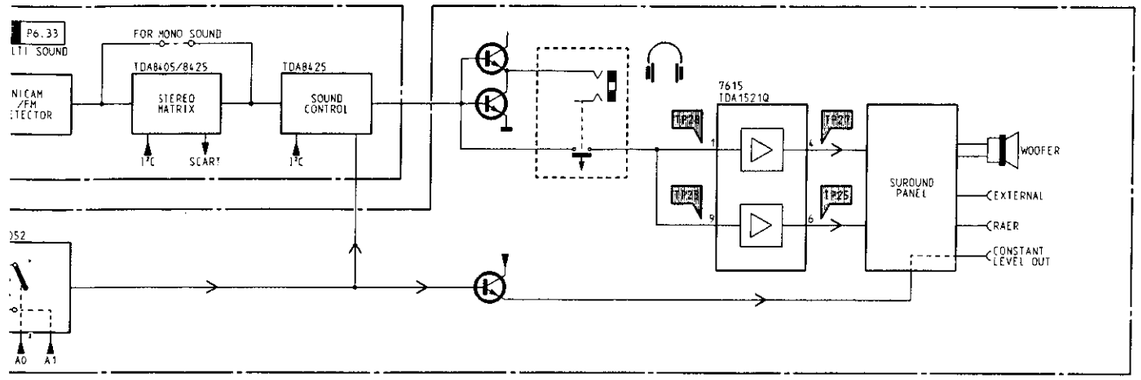


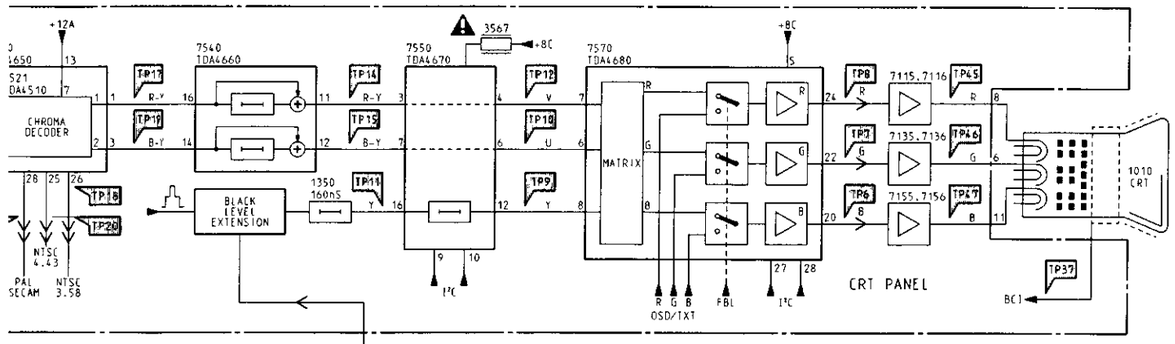
CL16532047/071.X001
181091

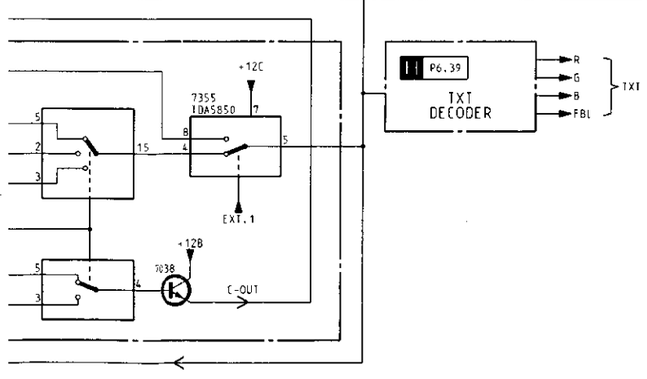
Blockdiagram

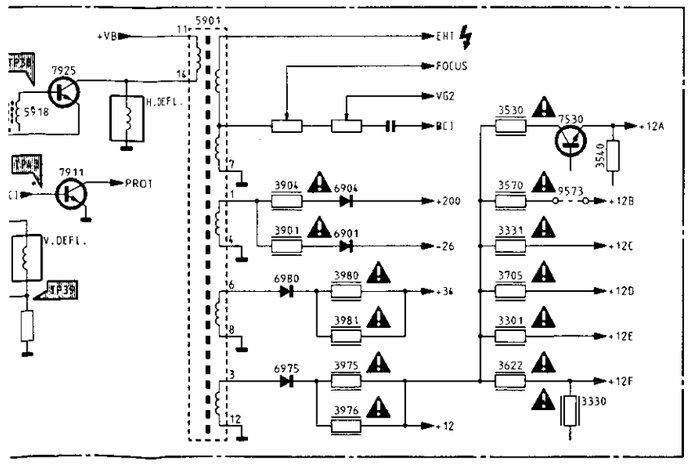
CHASSIS G112 5.2 5.3 CHASSIS G112

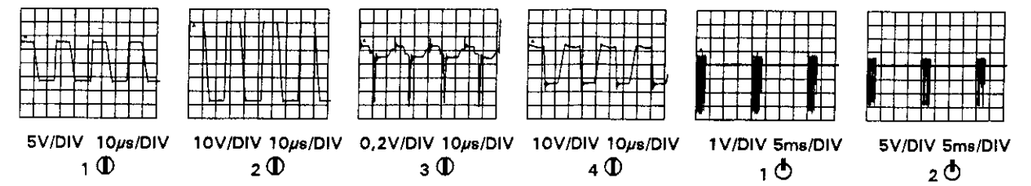


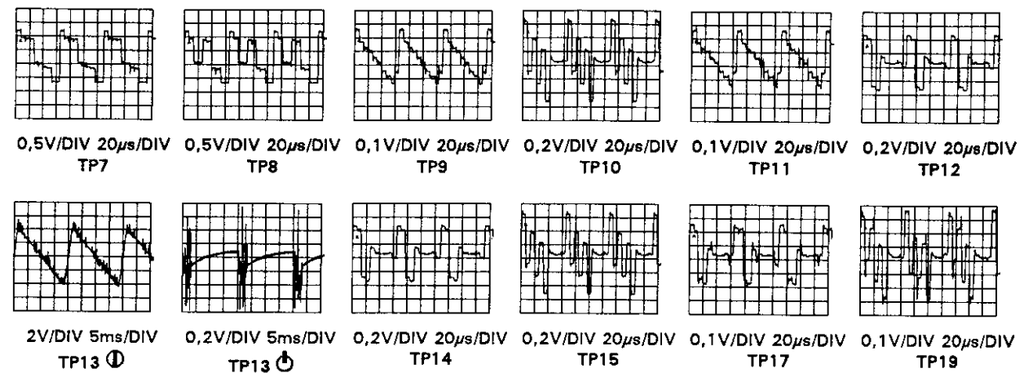

P6.33
FOR MONO SOUND
TDA8405/8425
TDA8425
STEREO MATRIX
SOUND CONTROL
I²C
SCART
7615 TDA1521Q
TP28
TP27
TP26
TP25
SURROUND PANEL
WOOFER
EXTERNAL
RAER
CONSTANT LEVEL OUT
A0
A1

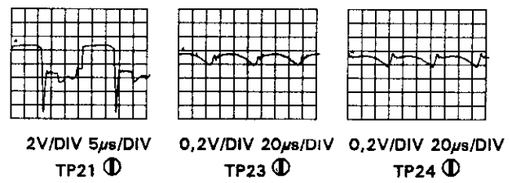

+12A
+8C
3567
7540 TDA4660
7550 TDA4670
7570 TDA4680
CHROMA DECODER
BLACK LEVEL EXTENSION
MATRIX
7115.7116
7135.7136
7155.7156
1010 CRT
CRT PANEL
TP17
TP14
TP12
TP8
TP45
TP19
TP15
TP18
TP11
TP9
TP7
TP46
TP6
TP47
TP16
TP20
TP37
R-Y
B-Y
Y
U
V
R
G
B
1350
160nS
NTSC 4.43
PAL SECAM
NTSC 3.58
I²C
OSD/TXT
FBL
BC1

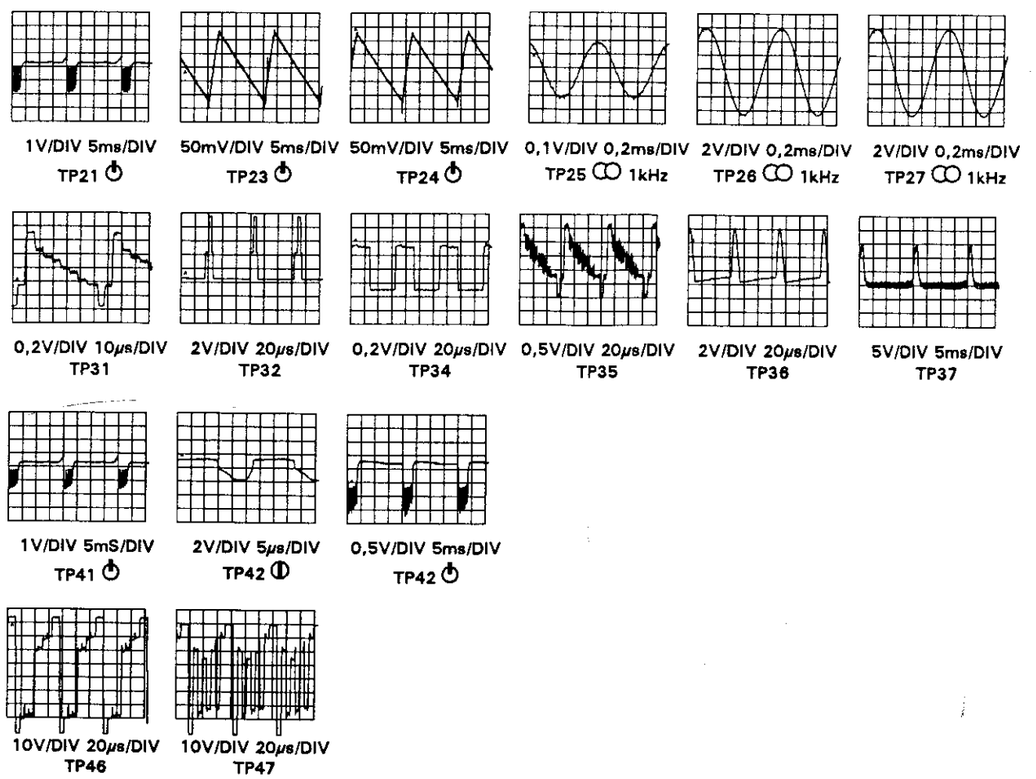

+12C
7355 TDA5850
EXT.1
+12B
7038
C-OUT
P6.39
TXT DECODER
R
G
B
FBL
TXT


5901
+VB
EHT
FOCUS
VG2
BC1
7925
S918
H.DEFL.
7911
PROT
V.DEFL.
TP38
TP39
3530
7530
+12A
3540
3904
6904
+200
3901
6901
-26
6980
3980
+34
3981
6975
3975
3976
+12
3570
9573
+12B
3331
+12C
3705
+12D
3301
+12E
3622
+12F
3330


5V/DIV 10µs/DIV
1
10V/DIV 10µs/DIV
2
0,2V/DIV 10µs/DIV
3
10V/DIV 10µs/DIV
4
1V/DIV 5ms/DIV
1
5V/DIV 5ms/DIV
2
5V/DIV 5ms/DIV
3
2V/DIV 5ms/DIV
4
Stand-by 0,7V
On 5V
TP1
DC: 5,1V
TP2 TP3
2V/DIV 0,1ms/DIV
TP4
0,5V/DIV 20µs/DIV
TP6


0,5V/DIV 20µs/DIV
TP7
0,5V/DIV 20µs/DIV
TP8
0,1V/DIV 20µs/DIV
TP9
0,2V/DIV 20µs/DIV
TP10
0,1V/DIV 20µs/DIV
TP11
0,2V/DIV 20µs/DIV
TP12
2V/DIV 5ms/DIV
TP13
0,2V/DIV 5ms/DIV
TP13
0,2V/DIV 20µs/DIV
TP14
0,2V/DIV 20µs/DIV
TP15
0,1V/DIV 20µs/DIV
TP17
0,1V/DIV 20µs/DIV
TP19


2V/DIV 5µs/DIV
TP21
0,2V/DIV 20µs/DIV
TP23
0,2V/DIV 20µs/DIV
TP24
0,1V/DIV 0,2ms/DIV
TP28 1kHz
1V/DIV 5ms/DIV
TP29
1V/DIV 5ms/DIV
TP30
2V/DIV 20µs/DIV
TP38
2V/DIV 5ms/DIV
TP39
1V/DIV 10µs/DIV
TP41
10V/DIV 10ms/DIV
TP43
20mV/DIV 20µs/DIV
TP44
10V/DIV 20µs/DIV
TP45


1V/DIV 5ms/DIV
TP21
50mV/DIV 5ms/DIV
TP23
50mV/DIV 5ms/DIV
TP24
0,1V/DIV 0,2ms/DIV
TP25 1kHz
2V/DIV 0,2ms/DIV
TP26 1kHz
2V/DIV 0,2ms/DIV
TP27 1kHz
0,2V/DIV 10µs/DIV
TP31
2V/DIV 20µs/DIV
TP32
0,2V/DIV 20µs/DIV
TP34
0,5V/DIV 20µs/DIV
TP35
2V/DIV 20µs/DIV
TP36
5V/DIV 5ms/DIV
TP37
1V/DIV 5mS/DIV
TP41
2V/DIV 5µs/DIV
TP42
0,5V/DIV 5ms/DIV
TP42
10V/DIV 20µs/DIV
TP46
10V/DIV 20µs/DIV
TP47

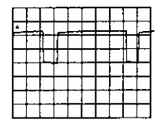
Controls

Stand-by 0,7V
On 5V

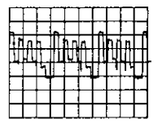
TP1

DC: 5,1V

TP2 TP3



2V/DIV 0,1ms/DIV
TP4

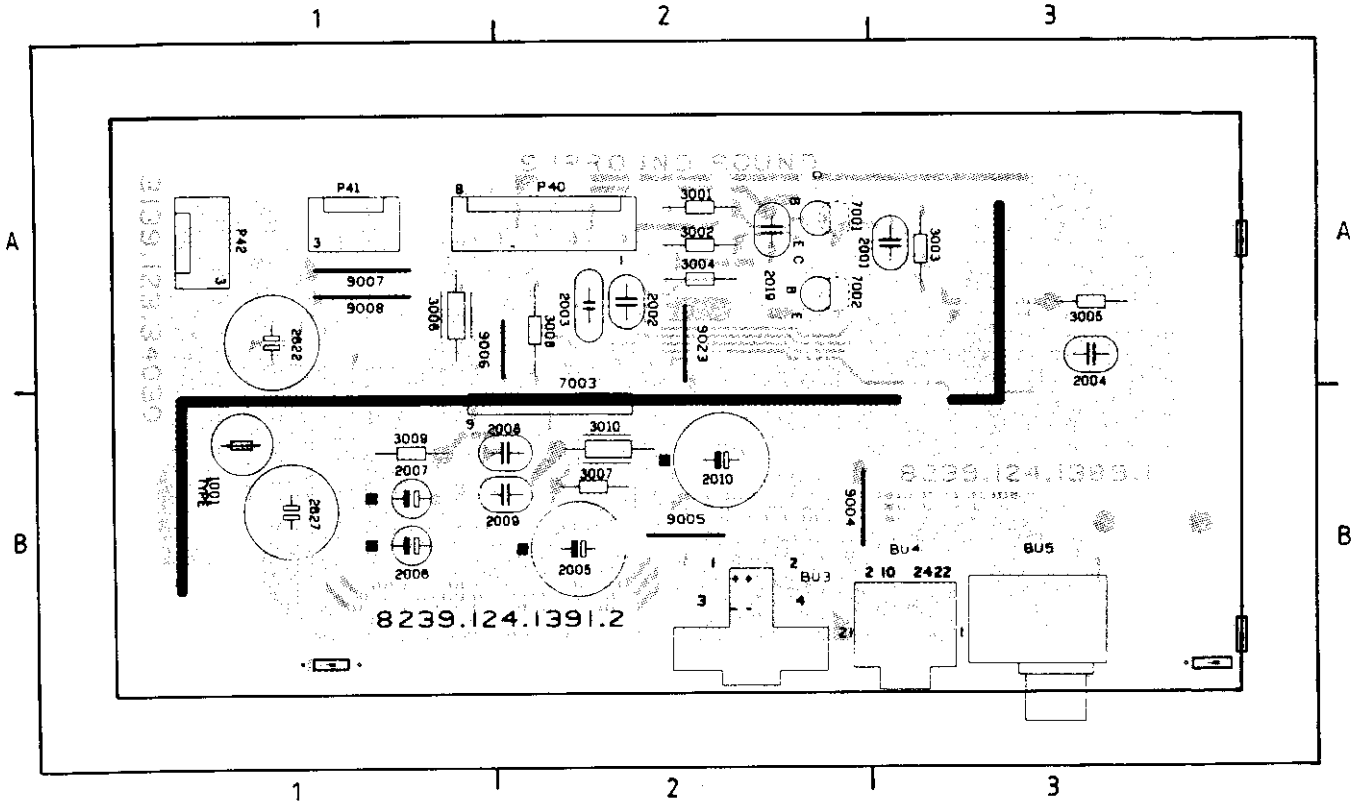


0,5V/DIV 20µs/DIV
TP6

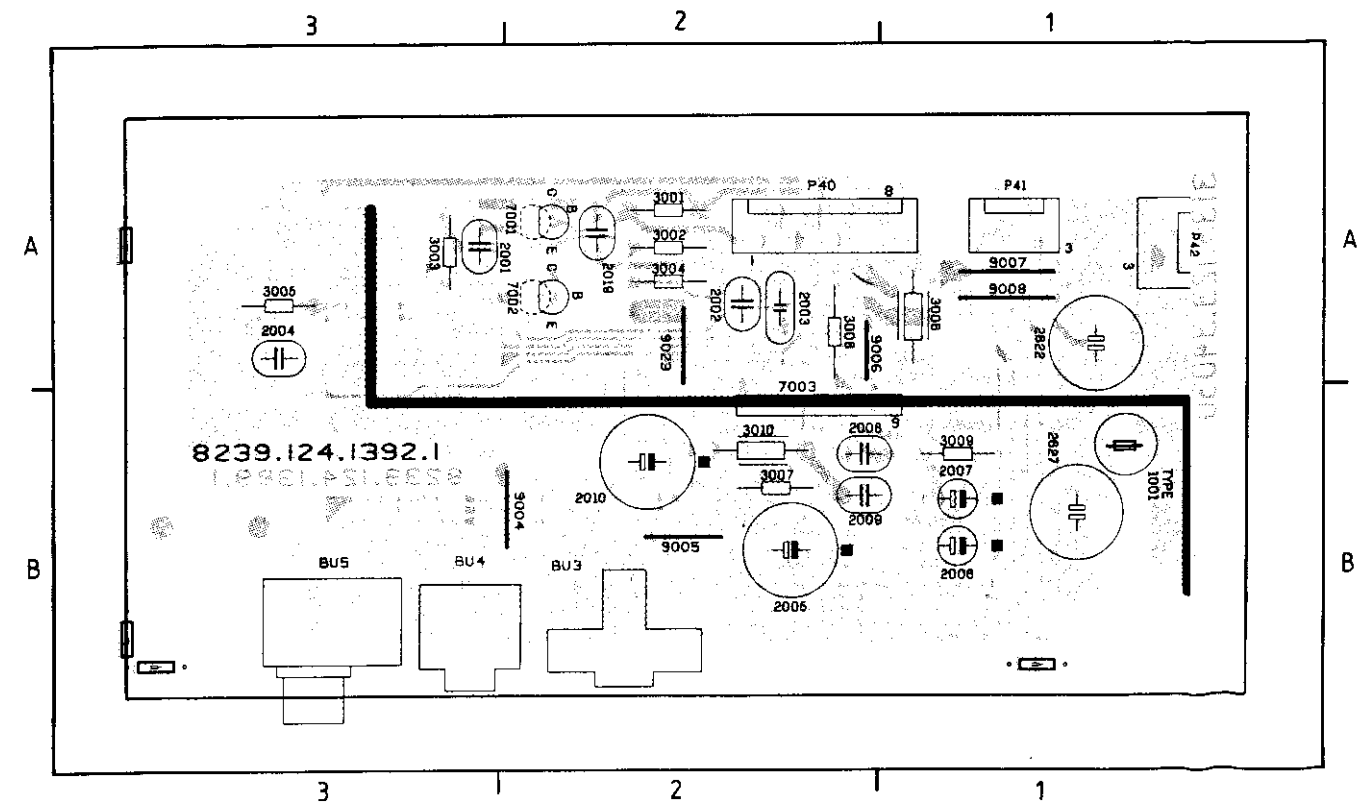
1210 CONTROL UNIT PANEL
1060 IR TRANSM.
1200 IR RECEIVER
7200 TMP47C1237N
DATA PROCESSOR
7210 RES
7232 BC848
7233 BC848
7264 BC848
7268 BC848
7278 X2402 EEPROM
6256 LL4148
6257 TLUV5300
6201 LL4148
6202 LL4148
6204 LL4148
6232 LL4148
6234 1N4148
6235 LL4148
6290 LL4148
6292 LL4148
6294 LL4148
6296 LL4148
1255 4MHz
NTSC 3.58
3V7-NTSC
5V -PAL
CVBS STATUS
RGB STATUS
AFT
COINC.
PIP SEL (RESERVED)
MAIN SELECT
SCL
SDA
EEPROM
IR TRANSM.
IR RECEIVER
TXT-STATUS
RGB-STATUS
POR
PAL/SECAM
EXT
B+C+D

CHASSIS G112
CL16532047/011, AREF 181091

Surround sound module



1001 B1	2005 B2	2010 B2	3002 A2	3007 B2	7002 A2	9007 A1	BU5 B3
2001 A3	2006 B1	2019 A2	3003 A3	3008 A2	7003 B2	9008 A1	P40 A2
2002 A2	2007 B1	2622 A1	3004 A2	3009 B1	9004 B2	9023 A2	P41 A1
2003 A2	2008 B2	2627 B1	3005 A3	3010 B2	9005 B2	BU3 B2	P42 A1
2004 A3	2009 B2	3001 A2	3006 A1	7001 A2	9006 A2	BU4 B2	



AV module

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2001 B4	2012 B4	2058 B2	3011 B4	3022 A4	3033 A5	3046 B3	3080 B4	4115 B3	7018 A4	7067 A3	S17 B2
2002 B4	2014 A4	2080 B4	3012 B2	3023 A3	3034 A5	3051 B2	3999 B1	4116 B2	7022 A4	9002 B5	S18 A3
2003 B5	2016 B3	3001 A5	3013 A4	3024 B3	3035 A4	3052 B2	4001 B5	4117 A4	7026 B3	9003 A5	S19 A5
2004 B5	2018 A5	3002 B5	3014 A4	3025 B3	3036 A4	3060 B2	4002 B5	4221 B1	7030 A4	9004 A5	S20 A6
2005 B4	2020 A5	3004 B4	3015 A4	3026 B3	3037 A4	3061 B2	4003 A5	4222 A3	7032 A4	9005 A5	S21 B4
2006 B4	2028 B5	3005 B5	3016 A4	3027 A4	3038 B3	3063 A4	4004 A5	4223 A4	7036 A4	9111 B3	
2007 B4	2038 A4	3006 B5	3017 A4	3028 B4	3039 A4	3064 A3	4005 B5	4224 B2	7038 B3	9112 B3	
2008 B4	2041 B2	3007 B4	3018 A4	3029 A4	3041 B4	3065 A3	4111 B3	7010 B5	7040 B3	9113 B3	
2009 B4	2048 B3	3008 B5	3019 A5	3030 A4	3042 A4	3067 A3	4112 B4	7012 A5	7050 B2	9221 B1	
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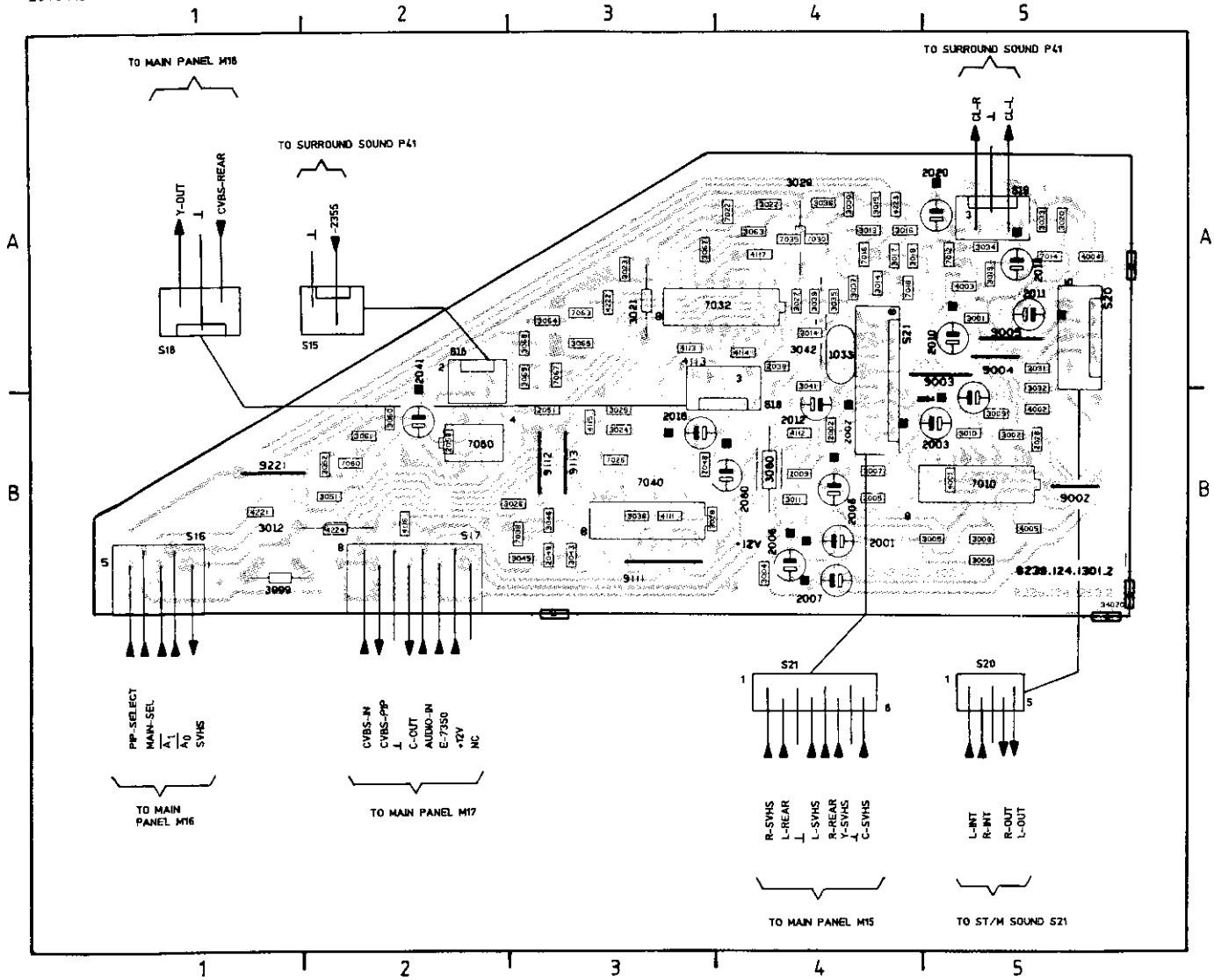
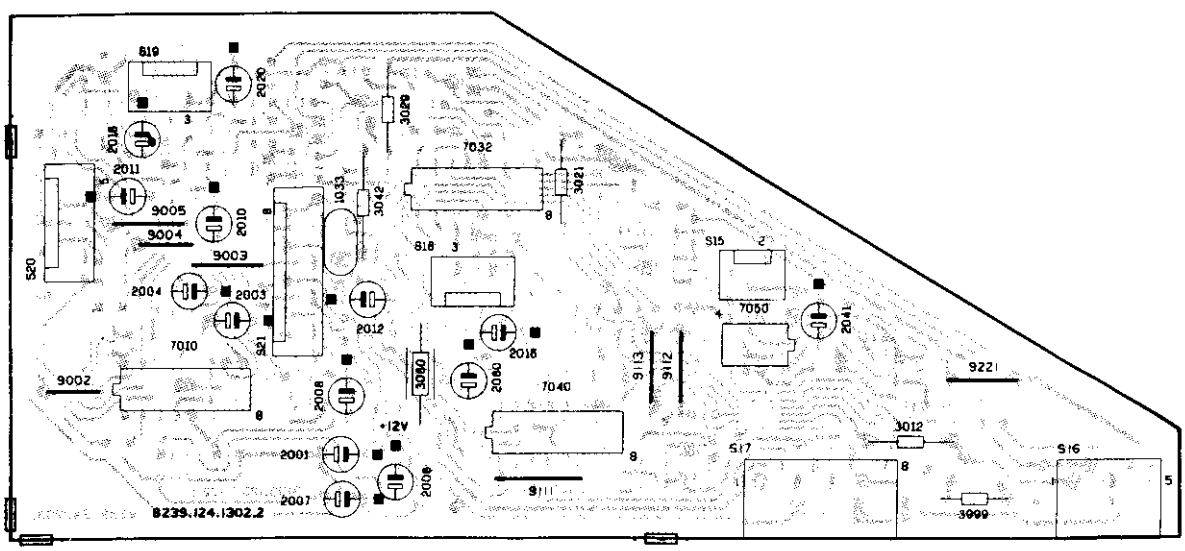




B

Tuner

1300	VERSION
UV954/IEC	/57
UV914/IEC	/79/69/68/65/67
UV916/IEC	/56/58
UV966/IEC	/75

NOT FOR -/56

ONLY FOR -/56

1330	1331	VERSION
OFWG3254	-	/68/69/75
OFWB3250	-	/75
OFWJ3250	-	/57
-	OFWK1950	/58
-	OFWK2950	/56
-	OFWG1961	/65/67

NOT FOR /56/58

IF

3345	VERSION
300	ONLY FOR /56
680	NOT FOR /56

ONLY FOR /56

AV-MODULE

Source selection

MAIN-SEL		STATUS		STATUS	HEF 4052	
LOWER	UPPER	MAIN		SOUND	A0	A1
0	1.25	FRONT		FRONT	1	1
1.25	2.5	SCART		SCART	1	0
2.5	3.75	SVHS		INT	0	1
3.75	5	SVHS		SVHS	0	0

Scart

2V/DIV 0,2ms/DIV
TP26 ∞ 1kHz

2V/DIV 0,2ms/DIV
TP27 ∞ 1kHz

0,1V/DIV 0,2ms/DIV
TP28 ∞ 1kHz

Source selection

B

1331	VERSION
-	/68/69/75
-	/75
-	/57
OFWK1950	/58
OFWK2950	/56
OFWG1961	/65/67

IF

1344	1346	VERSION
5.5	6.0	/56
6.0	6.5	/57
5.5	5.74	/75/68
5.5	5.8	/79/69
5.5	6.5	/58
5.5	-	/65/67

3345	VERSION
300	ONLY FOR /56
680	NOT FOR /56

MAIN-SEL		STATUS	STATUS	HEF 4052	
LOWER	UPPER	MAIN	SOUND	A0	A1
0	1.25	FRONT	FRONT	1	1
1.25	2.5	SCART	SCART	1	0
2.5	3.75	SVHS	INT	0	1
3.75	5	SVHS	SVHS	0	0

Source selection

Audio processing

SURROUND SOUND MODULE

2V/DIV 0,2ms/DIV
TP26 ∞ 1kHz

2V/DIV 0,2ms/DIV
TP27 ∞ 1kHz

0,1V/DIV 0,2ms/DIV
TP28 ∞ 1kHz

0,5V/DIV 20µs/DIV
TP35

20mV/DIV 20µs/DIV
TP44

0,1V/DIV 0,2ms/DIV
TP25 ∞ 1kHz

CHASSIS G112

EL16532047/012.BREF
181091

101	B33	3008	J32	5345	C20
1001	L32	3009	F14	6302	F 4
1300	B 1	3009	K32	6316	B 7
1330	A10	3010	F15	6345	B23
1331	A11	3010	K32	6401	I 3
1344	C24	3011	G12	6403	J 5
1346	C24	3012	M13	6404	M 5
1348	D24	3013	I13	6405	J 3
1350	A22	3014	J13	6407	J 6
2000	D12	3015	I12	6410	H 8
2001	F16	3016	H14	6411	H 8
2001	D14	3017	J12	6412	I 8
2001	K29	3018	I13	6413	I 8
2002	G11	3019	F17	6424	N 3
2002	L28	3021	K13	6425	M 3
2003	E12	3022	J14	6428	L 6
2003	K30	3023	K13	6430	K 5
2004	F12	3024	L12	6431	L 5
2004	K30	3025	K13	6432	L 5
2005	F11	3026	K14	6433	L 7
2005	D12	3028	M13	6438	L 7
2005	J29	3031	F14	6452	K 3
2006	G12	3032	F13	6458	L 3
2006	J30	3033	H18	6610	O 6
2007	G12	3034	J18	6611	O 8
2007	C14	3038	N13	6615	N23
2007	K32	3043	N17	6646	M23
2008	H12	3045	O18	7000	C11
2008	C14	3046	N17	7001	K29
2008	L31	3080	E18	7002	L28
2009	G11	3302	F 4	7003	K30
2009	L32	3303	F 4	7010	F15
2010	F18	3304	E 3	7012	I18
2010	K33	3305	E 3	7014	H18
2011	G18	3307	E 1	7016	I14
2012	N12	3308	F 2	7018	J13
2014	O12	3314	B 8	7022	J14
2016	N18	3316	C 6	7026	L14
2018	H18	3317	D 7	7032	I15
2019	J29	3318	D 8	7039	N17
2020	F17	3320	C 7	7042	L15
2020	J18	3325	D18	7325	A17
2028	F16	3326	D18	7343	C22
2038	I16	3332	A20	7344	D24
2048	L16	3334	A25	7345	C25
2049	N18	3335	A25	7346	A23
2080	F18	3336	A19	7347	B24
2302	E 5	3337	B23	7348	B25
2303	F 4	3338	A24	7350	C29
2304	E 3	3339	B24	7351	C27
2305	E 2	3341	C16	7421	J 8
2307	E 4	3342	C22	7431	K 8
2308	E 5	3343	C22	7435	L 8
2309	F 2	3344	C23	7441	M 7
2310	D 7	3345	C21	7451	K 2
2314	C 7	3346	D23	7451	L 2
2315	A 9	3347	B22	7601	J24
2316	B 7	3348	D25	7603	K24
2317	C 7	3349	C26	7605	K23
2325	B16	3351	C29	7615	N 6
2326	E17	3352	B29	7631	G28
2327	D20	3401	I 2	7635	F30
2330	C21	3403	H 5	7648	G24
2332	B21	3405	J 2	7649	H24
2334	A19	3407	H 5	7651	H23
2335	A19	3410	G 8		
2336	A19	3411	H 8		
2340	C16	3427	J 8		
2341	D16	3428	J 6		
2345	D21	3429	J 6		
2355	C26	3430	K 6		
2359	C28	3432	K 8		
2401	I 3	3433	K 7		
2403	I 5	3434	K 6		
2405	J 3	3435	K 6		
2407	I 6	3437	L 8		
2430	J 5	3438	L 7		
2435	K 5	3439	L 6		
2440	L 5	3440	I 6		
2457	L 3	3441	M 7		
2459	M 2	3442	M 8		
2602	J24	3450	J 2		
2603	L22	3451	K 3		
2611	G28	3452	K 3		
2612	H27	3456	L 2		
2613	D 6	3457	L 3		
2614	D 7	3458	L 3		
2615	H29	3459	M 3		
2616	H29	3600	I23		
2617	I30	3601	J24		
2618	O 8	3602	K24		
2622	M32	3603	K23		
2624	H32	3604	K22		
2627	M32	3605	L23		
2629	G32	3616	F28		
2630	G27	3617	G28		
2635	I29	3618	F27		
2636	H30	3624	H32		
2637	F28	3629	G32		
2642	G24	3640	F23		
2643	H22	3641	G24		
2646	L22	3642	G24		
3001	E18	3643	G23		
3001	K28	3644	G22		
3002	F16	3645	H23		
3002	K29	3646	M24		
3003	I27	4015	B32		
3004	G12	4316	A 7		
3004	L28	5000	B12		
3005	F13	5006	C15		
3005	K30	5010	B30		
3006	F13	5316	B 7		
3006	J29	5335	A17		
3007	E12	5336	A20		
3007	J30	5342	A10		
3008	F14	5344	C25		

C

Chrominance processing

0,5V/DIV 20µs/DIV TP6

0,5V/DIV 20µs/DIV TP7

0,5V/DIV 20µs/DIV TP8

0,1V/DIV 20µs/DIV TP9

0,2V/DIV 20µs/DIV TP10

0,1V/DIV 20µs/DIV TP11

0,2V/DIV 20µs/DIV TP12

0,1V/DIV 20µs/DIV TP17

0,1V/DIV 20µs/DIV TP19

5V/DIV 5ms/DIV TP37

10V/DIV 20µs/DIV TP46

10V/DIV 20µs/DIV TP47

10V/DIV 20µs/DIV TP45

Sharpness reduction

BLACK-LEVEL EXTENSION

PROVISION FOR PIP

P.I.P.

REMARKS

1) FOR -/57/79
2) NOT FOR -/75

RESERVED

C

Picture tube panel

0,2V/DIV 20µs/DIV
TP14

0,2V/DIV 20µs/DIV
TP15

0,1V/DIV 20µs/DIV
TP11

0,2V/DIV 20µs/DIV
TP12

10V/DIV 20µs/DIV
TP46

10V/DIV 20µs/DIV
TP47

10V/DIV 20µs/DIV
TP45

P.I.P.

RESERVED

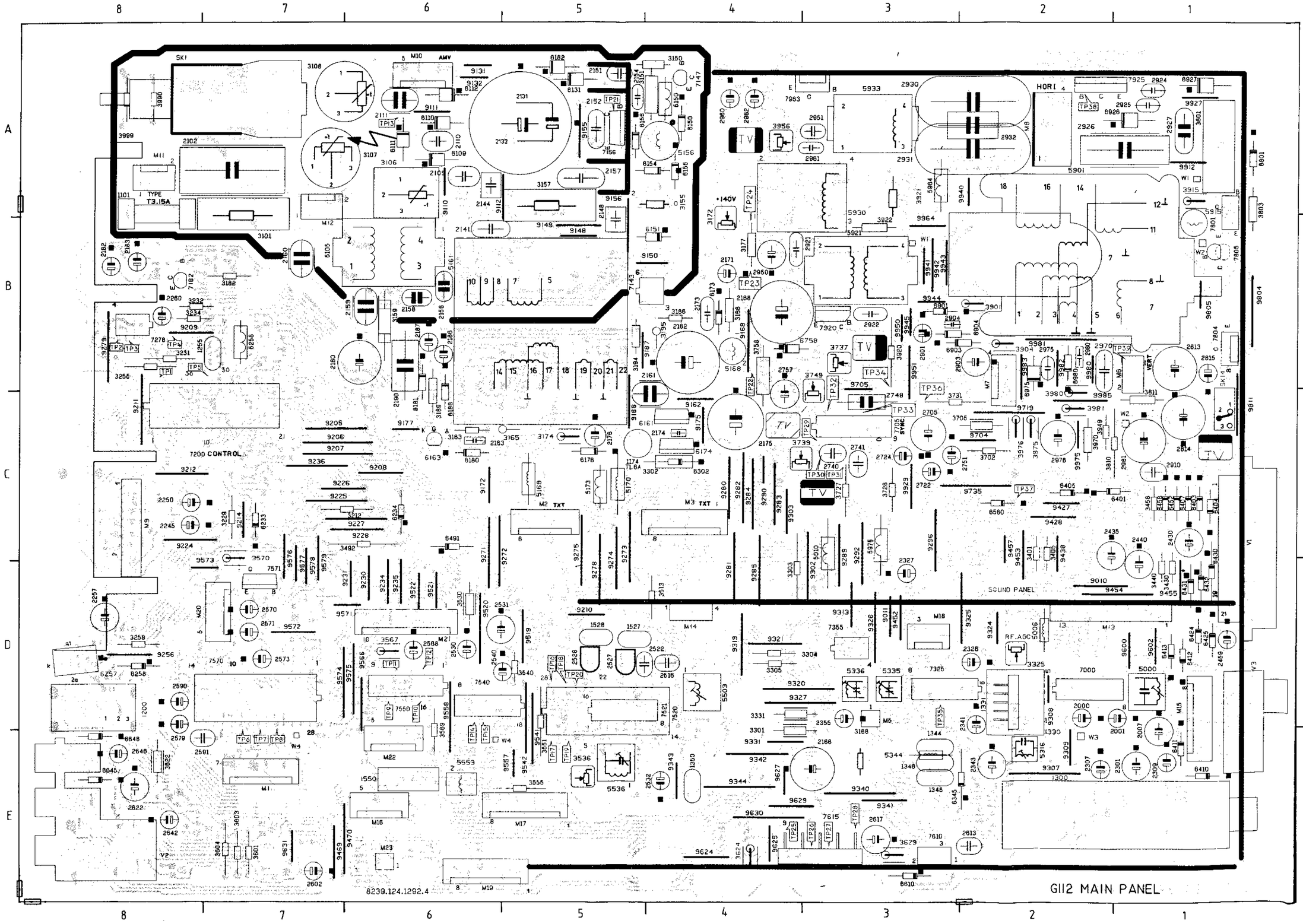
CHASSIS G112

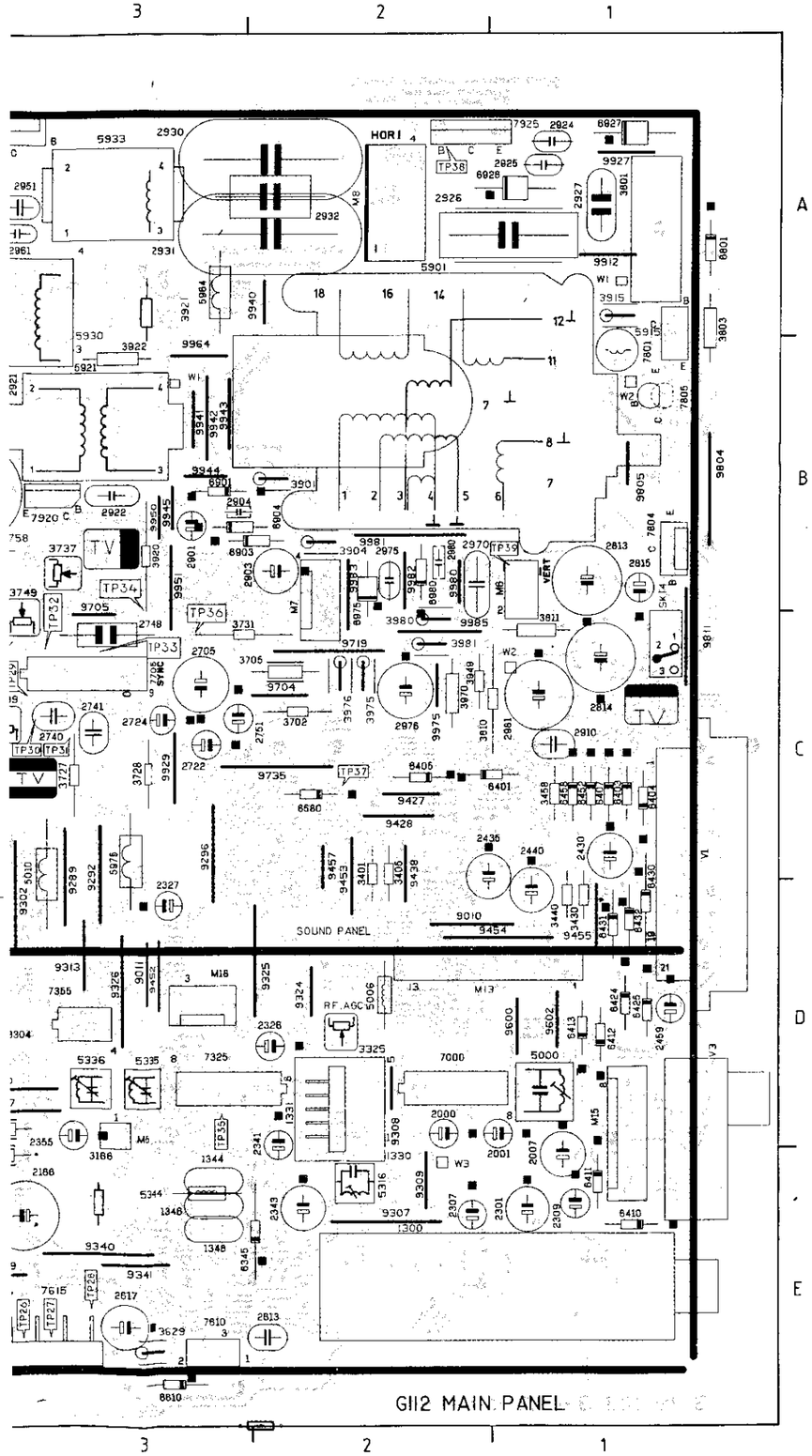
EL16532047/013.CREF
181091

BC55	C33	3123	H28	5182	J33
1350	K 5	3128	G29	5183	J33
1527	G10	3129	F29	5501	K12
1528	G10	3131	H29	5503	C 5
2102	D28	3132	L28	5536	A 9
2111	E29	3133	G29	5553	J 2
2122	H28	3135	F30	5558	L 4
2131	I29	3136	G31	5559	K 4
2133	M28	3137	L31	6115	C30
2134	M29	3138	G31	6134	M30
2142	K28	3141	K27	6135	F30
2151	L29	3142	K28	6137	L30
2165	C32	3143	L28	6155	J30
2166	D32	3148	J29	6157	K30
2178	M32	3149	I29	6166	C32
2179	G28	3151	K29	6491	D23
2188	M33	3153	J29	6492	E23
2249	D13	3155	L30	6509	F 7
2250	E13	3156	K30	6510	F 7
2500	C 2	3157	L30	6515	H 4
2501	K10	3158	J31	6520	I 2
2502	D 5	3160	B33	6540	C15
2502	L 8	3163	B33	6569	J17
2503	D 4	3165	C33	6571	F 2
2503	M 9	3166	B32	6575	D19
2504	D 5	3167	D32	6576	E20
2505	D 6	3178	M32	6580	L24
2505	K12	3179	G27	7110	D29
2506	D 7	3182	J32	7111	E29
2506	L14	3183	K33	7115	C30
2507	D 6	3185	J33	7116	D30
2508	D 5	3188	J34	7130	G29
2510	G12	3365	D18	7131	H29
2511	G12	3366	D18	7133	M29
2512	E13	3491	D24	7135	G30
2513	D13	3492	E23	7136	G30
2514	E 7	3500	D 4	7150	K29
2515	D 7	3501	D 3	7151	K29
2516	G11	3501	K11	7155	J30
2517	G 7	3502	E 4	7156	K30
2518	G 8	3502	L13	7161	D33
2522	G 8	3503	D 3	7501	F 3
2523	G 8	3503	M 9	7501	K 9
2524	M 9	3504	C 2	7502	E 5
2527	G10	3505	F 3	7503	E 3
2528	G10	3505	L12	7505	L13
2532	C 8	3506	G11	7509	N10
2534	B 9	3506	N10	7510	N 9
2535	B10	3507	E 4	7511	H 3
2536	B 9	3508	N10	7512	I 3
2537	B10	3509	F 4	7513	N12
2538	B 8	3509	M 9	7514	N11
2540	C15	3510	N10	7520	C 7
2541	D14	3511	H 3	7520	C 7
2542	E14	3511	N 8	7521	D 7
2543	H17	3512	H 4	7521	E 7
2544	G15	3512	N13	7540	C14
2545	C15	3513	H 2	7547	M 4
2546	H17	3513	M12	7550	F17
2547	N 4	3514	O11	7552	I 4
2548	N 5	3515	M11	7555	I 2
2552	J 5	3517	O11	7570	G21
2553	J 4	3520	L12	7571	E 2
2554	J 3	3521	K13		
2555	J 2	3522	H 8		
2556	L 4	3522	L13		
2557	G17	3524	H 8		
2558	H17	3525	K13		
2559	I15	3526	B11		
2560	K19	3527	C11		
2561	K19	3528	B11		
2562	K19	3536	B 9		
2563	K17	3540	B16		
2564	K18	3541	G17		
2565	E17	3542	F13		
2566	E18	3543	F14		
2567	F19	3544	G14		
2568	F19	3546	M 4		
2571	F 2	3547	N 4		
2572	F20	3548	G16		
2573	F21	3551	I 5		
2574	F24	3552	J 5		
2575	F25	3555	L 3		
2576	G20	3556	L 4		
2577	H20	3558	L 4		
2578	I20	3559	K 6		
2579	K23	3567	K 6		
2580	M24	3567	E20		
2582	J24	3569	J16		
2584	E26	3571	F 1		
2585	H26	3574	E25		
2586	L26	3575	E24		
2587	J25	3576	D20		
2588	J25	3577	J23		
2589	J25	3578	J23		
2590	J24	3580	K24		
2591	I24	3581	M24		
2592	F23	3582	J24		
2593	F22	3584	E26		
2594	F22	3585	H26		
2595	J21	3586	K26		
2596	J22	3587	K23		
2597	J22	3588	K24		
3101	E27	3591	F24		
3102	E28	3592	D21		
3103	E28	3593	D21		
3108	C29	3594	D20		
3109	C29	4134	L29		
3111	E29	4166	D34		
3113	E29	4538	G 9		
3115	C30	4539	G 9		
3116	D31	4556	K 6		
3117	M31	4559	L 5		
3118	C31	4595	K20		
3121	H27	4596	K20		
3122	H28	4597	K21		

Monocarrier

CHASSIS G112 6.13 6.14 CHASSIS G112





1101 A8	2975 B2	6111 A6	9271 C6	M6 B1
1174 C5	2976 C2	6112 A6	9272 C6	M7 C2
1200 D8	2980 B2	6131 A5	9273 C5	M8 A2
1255 B7	2981 C1	6132 A5	9274 C5	M9 C8
1300 E1	3101 A7	6150 A4	9275 C5	SK14 B1
1330 D2	3106 A6	6151 B5	9278 D5	V1 C1
1331 D2	3107 A7	6154 A5	9279 B8	V2 E8
1344 E3	3108 A7	6155 A4	9280 C4	V3 E1
1346 E3	3150 A5	6158 A5	9281 D4	W1 B3
1348 E3	3151 A5	6181 C4	9282 C4	W2 B1
1350 E4	3155 A5	6183 C6	9283 C4	W3 E2
1527 D5	3157 A5	6173 B4	9284 C4	W4 E7
1528 D5	3159 B6	6174 C4	9285 D4	
1550 E8	3163 C6	6176 C5	9289 C3	
2000 D2	3165 C5	6180 C6	9290 C4	
2001 D2	3166 E3	6181 B6	9292 C3	
2007 E1	3169 B4	6186 C6	9296 C3	
2102 A7	3172 B4	6233 C7	9302 D4	
2109 A6	3174 C5	6234 C6	9303 C4	
2110 A6	3177 B4	6257 D8	9307 E2	
2111 A6	3182 B7	6258 D8	9308 D2	
2131 A5	3186 B4	6302 C4	9309 E2	
2132 A5	3189 B6	6345 E3	9313 D3	
2141 B6	3194 B5	6401 C2	9319 D4	
2144 A6	3195 B4	6403 C1	9320 D4	
2148 A5	3212 C6	6404 C1	9321 D4	
2151 A5	3229 C7	6405 C2	9324 D2	
2152 A5	3231 B6	6407 C1	9325 D3	
2154 A5	3232 B7	6410 E1	9326 D3	
2156 B6	3234 B7	6411 E1	9327 D4	
2157 A5	3255 B6	6412 D1	9331 E4	
2158 B6	3258 D8	6413 D1	9340 E3	
2159 B6	3301 E4	6424 D1	9341 E3	
2160 B7	3302 C4	6425 D1	9342 E4	
2161 C5	3303 D4	6430 D1	9343 E4	
2162 B4	3304 D4	6431 D1	9344 E4	
2163 C6	3305 D4	6432 D1	9427 C2	
2166 E3	3325 D2	6452 C1	9428 C2	
2168 B4	3331 D4	6458 C1	9438 C2	
2171 B4	3401 C2	6491 C6	9452 D3	
2173 B4	3405 C2	6580 C2	9453 C2	
2174 C4	3430 D1	6610 E3	9454 D2	
2175 C4	3440 D1	6645 E8	9455 D1	
2176 C5	3458 C1	6646 E8	9457 C2	
2180 B6	3492 C8	6758 B4	9469 E7	
2182 B8	3513 D5	6801 A1	9470 E7	
2183 B8	3530 D6	6901 B3	9519 D5	
2186 B6	3536 E5	6903 B3	9520 D6	
2187 B8	3540 D5	6904 B3	9521 D6	
2189 B8	3551 D5	6926 A1	9522 D6	
2245 C8	3555 E5	6927 A1	9541 E5	
2250 C8	3567 D8	6975 B2	9542 D5	
2257 D8	3569 E8	6980 B2	9557 E5	
2260 B8	3570 C7	7000 D2	9558 D8	
2301 E1	3601 E7	7143 B5	9566 D6	
2307 E2	3603 E7	7147 A4	9571 D6	
2309 E1	3604 E7	7156 A5	9572 D7	
2328 D2	3622 E8	7182 B8	9573 D7	
2327 D3	3624 E4	7200 C8	9574 D7	
2341 D2	3629 E3	7278 B8	9575 D6	
2343 E2	3702 C2	7325 D2	9576 C7	
2355 D3	3705 C2	7355 D3	9577 D7	
2430 C1	3727 C3	7520 E5	9578 D7	
2435 C2	3728 C3	7521 D5	9578 C7	
2440 D1	3731 C3	7540 D5	9800 D1	
2459 D1	3737 B3	7550 D6	9802 D1	
2516 D4	3739 C3	7570 D7	9824 E4	
2522 D5	3749 C3	7571 D7	9825 E4	
2527 D5	3758 B4	7810 E3	9827 E4	
2528 D5	3801 A1	7815 E3	9829 E4	
2530 D6	3803 A1	7705 C3	9830 E4	
2531 D5	3810 C2	7801 A1	9831 E7	
2532 E4	3811 C1	7804 B1	9704 C2	
2540 D5	3901 B2	7805 B1	9705 B3	
2568 D6	3904 B2	7920 B3	9719 C2	
2570 D7	3915 A1	7925 A2	9735 C2	
2571 D7	3920 B3	7963 A4	9804 B1	
2573 D7	3921 A3	9010 D2	9805 B1	
2579 D8	3922 B3	9011 D3	9811 C1	
2590 D8	3949 C2	9110 A6	9912 A1	
2591 E7	3956 A4	9111 A6	9927 A1	
2602 E7	3970 C2	9112 A5	9929 C3	
2613 E2	3975 C2	9131 A6	9940 A2	
2617 E3	3976 C2	9132 A6	9941 B3	
2622 E8	3980 C2	9148 B5	9942 B3	
2642 E8	3981 C2	9149 B5	9943 B3	
2646 E8	3990 A8	9150 B5	9944 B3	
2705 C3	3999 A8	9155 A5	9945 B3	
2722 C3	5000 D1	9156 B5	9950 B3	
2724 C3	5006 D2	9162 C4	9951 B3	
2740 C3	5010 C3	9168 B4	9964 B3	
2741 C3	5105 B6	9172 C6	9975 C2	
2748 C3	5150 A4	9175 C4	9980 B2	
2751 C3	5156 A4	9177 C8	9981 B2	
2757 C4	5161 B6	9187 B5	9982 B2	
2813 B1	5168 B4	9188 C5	9983 B2	
2814 C1	5169 C5	9205 C7	9985 C2	
2815 B1	5170 C5	9206 C7		
2901 B3	5173 C5	9207 C7	M1 E7	
2903 B2	5258 B7	9208 C8	M10 A6	
2904 B3	5316 E2	9209 B8	M11 A8	
2910 C1	5335 D3	9210 D5	M12 A7	
2921 B4	5336 D3	9211 C8	M13 D2	
2922 B3	5344 E3	9212 C8	M14 D4	
2925 A1	5503 D4	9214 C7	M15 E1	
2926 A1	5536 E5	9224 C8	M16 E8	
2927 A1	5553 E8	9225 C7	M17 E5	
2930 A2	5901 A2	9226 C7	M18 D3	
2931 A2	5915 A1	9227 C6	M19 E5	
2932 A2	5921 B3	9228 C8	M2 C5	
2950 B4	5930 B4	9230 D6	M20 D7	
2951 A3	5933 A3	9231 D6	M21 D6	
2960 A4	5964 A3	9234 D6	M22 E8	
2961 A4	5975 C3	9235 D6	M23 E8	
2982 A4	6109 A6	9236 C7	M3 C4	
2970 B2	6110 A6	9256 D8	M5 D3	

2102 B2	3116 A2	3143 B2	3188 A1	7131 A2	P3 B1	
2111 A2	3117 A2	3148 B2	3333 A2	7133 B2	P4 A1	
2122 A2	3118 A1	3149 B1	4133 A2	7135 A2	P6 B1	
2131 A2	3121 A2	3161 B2	4134 B2	7136 A2	P8 B1	
2134 B2	3122 A2	3163 B2	6182 A1	7150 B2		
2142 B2	3123 A2	3166 B2	6183 A1	7161 B2		
2151 B2	3128 A2	3166 B2	6115 A2	7155 B2		
2165 B2	3128 A2	3157 A2	6130 B2	7156 B2		
2178 B2	3130 B2	3158 B1	6134 A2	7160 B2		
2179 B2	3131 A2	3160 B2	6135 A1	7161 B2		
2188 A1	3132 B2	3163 B2	6137 A2	9100 B2		
3101 B2	3133 A2	3166 B2	6155 B2	9101 A2		
3102 B2	3134 B2	3166 B2	6157 A2	9102 A1		
3103 B2	3135 A2	3167 B2	6166 B2	9103 A1		
3108 B2	3136 A2	3178 A1	7110 B2	9105 A1		
3109 B2	3137 A2	3178 B2	7111 A2	9111 B2		
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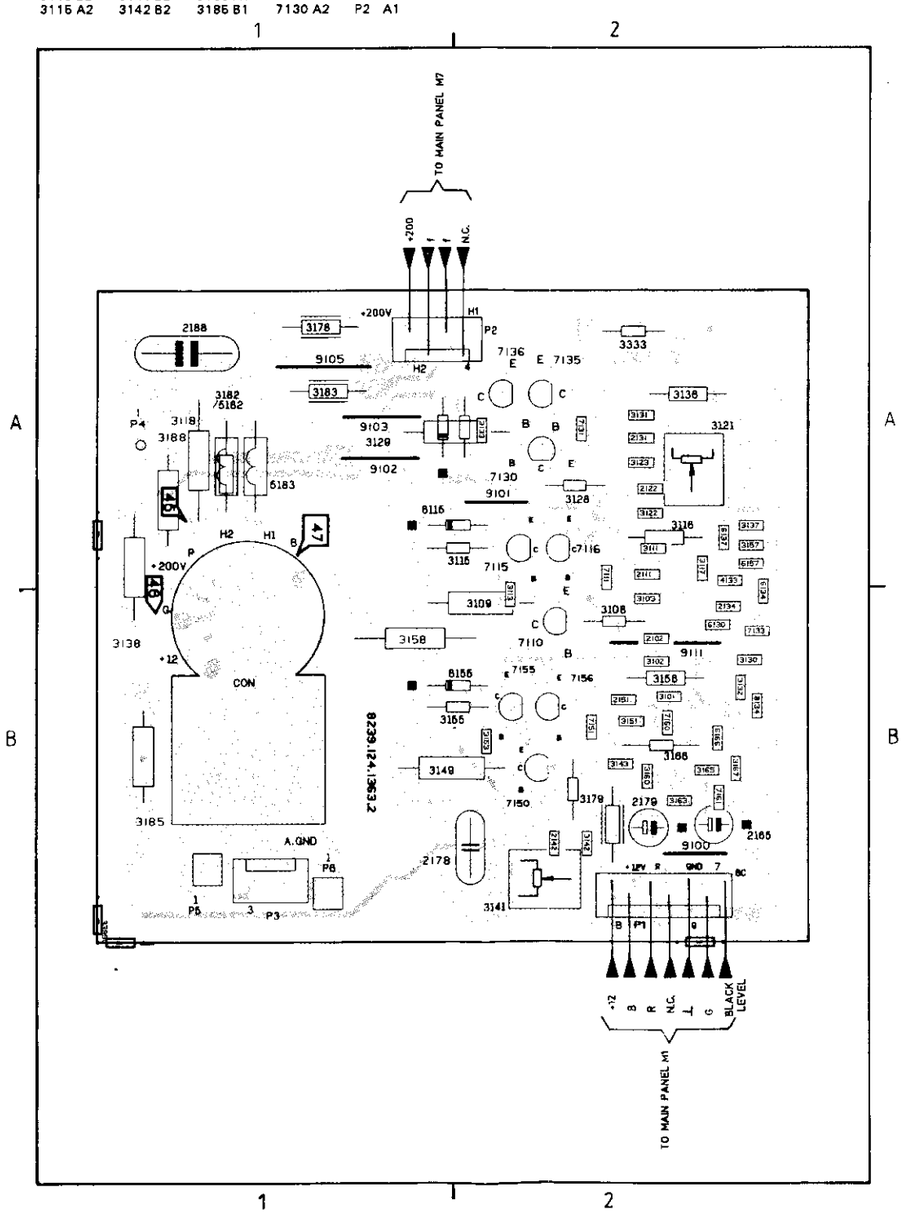

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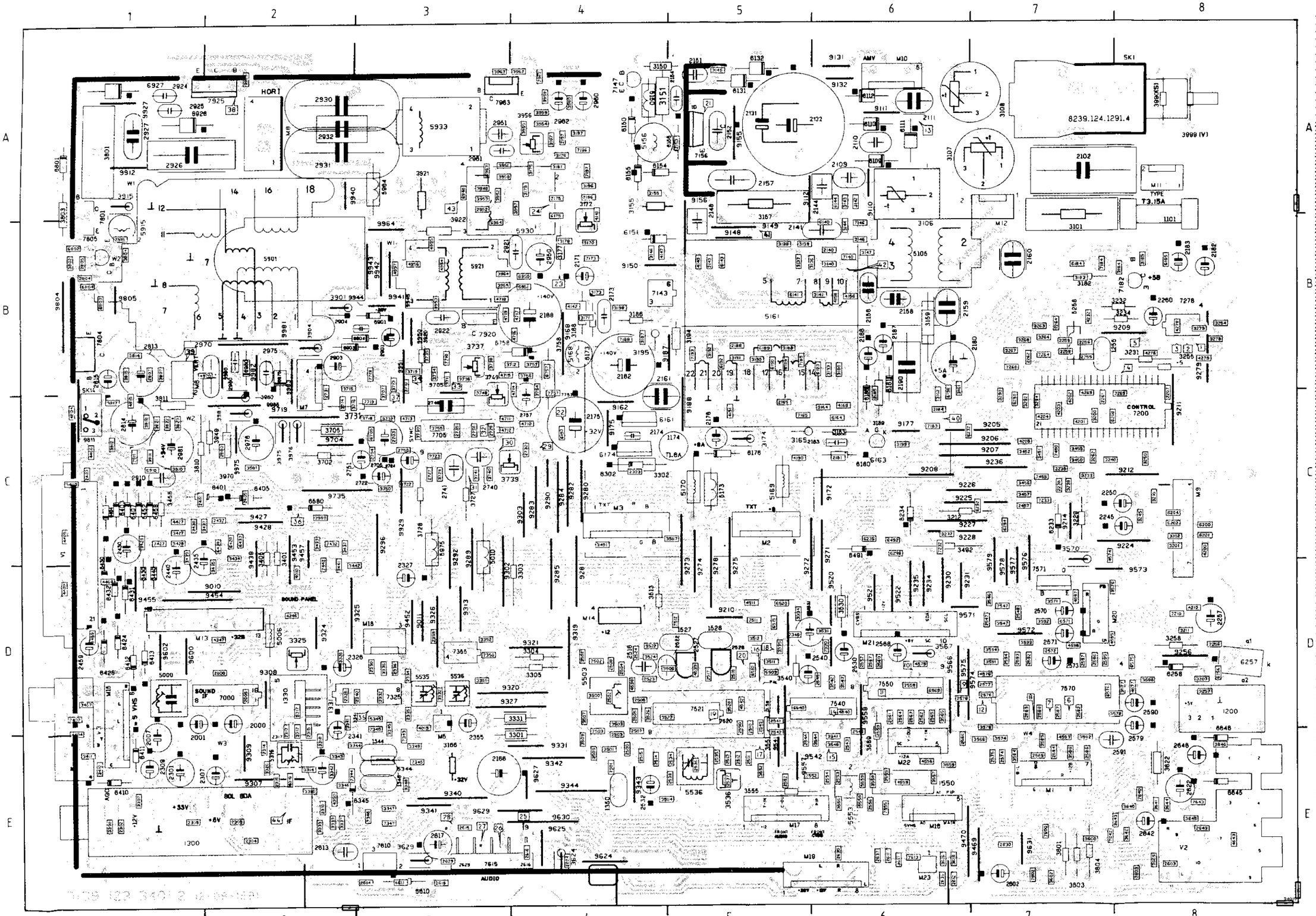

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1550 E6	2522 D5	2922 B3	3
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2143 B5	2541 D5	2975 B2	3
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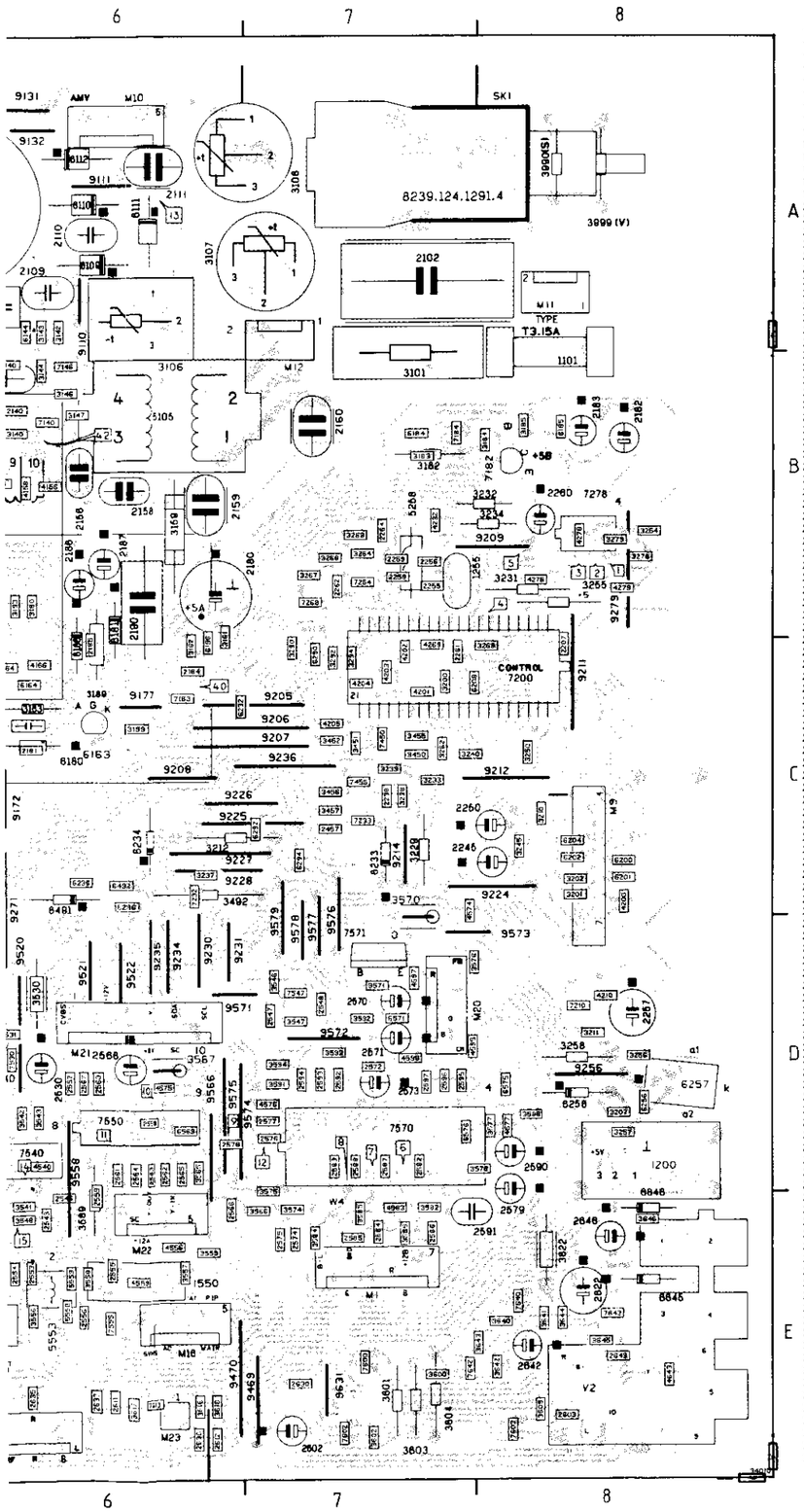

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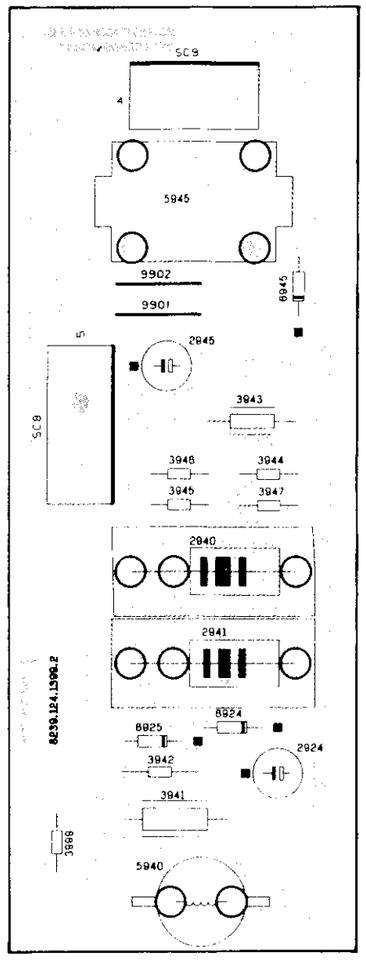
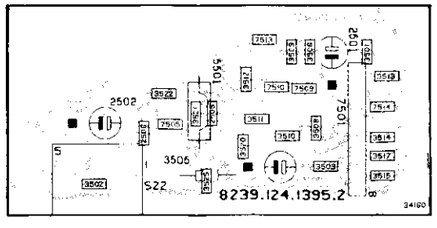
S-Correction module



Black level module



Power supply

Synchronization

CHASSIS G112 | 6.21 | 6.22 | CHASSIS G112

D

5V/DIV 10µs/DIV
1

10V/DIV 10µs/DIV
2
Power supply

0,2V/DIV 10µs/DIV
3

10V/DIV 10µs/DIV
4

FOR MULTI VOLTAGE SEE DIAGRAM G

DEGAUSSING COIL

ON/OFF

273V* (300V*)

RESERVED FOR PIP

FOR -/57/79

+8 (TELETEXT)

+8B (P.I.P)

+8A (NICAM)

+32A

+32B

+140 (+11V6)

PROT

STANDBY

+5A

+5B

POR

A106

A110

D107

D108

D52

2V/DIV 5µs/DIV
TP21

2V/DIV 5ms/DIV
TP13

0,2V/DIV 20µs/DIV
TP23

0,2V/DIV 20µs/DIV
TP24

0,2V/DIV 5ms/DIV
TP13

1V/DIV 5ms/DIV
TP21

1V/DIV 5ms/DIV
1

5V/DIV 5ms/DIV
2

5V/DIV 5ms/DIV
3

2V/DIV 5ms/DIV
4

* MEASURED IN RESPECT OF ⏚

50mV/DIV 5ms/DIV
TP23

Frame

1V/DIV 10µs/DIV
TP41

1V/DIV 5mS/DIV
TP41

2V/DIV 5µs/DIV
TP42

0,5V/DIV 5ms/DIV
TP42

1V/DIV 5ms
TP29

REMARKS
1) FOR 29" SET
2) FOR 25" SET
3) ONLY PRESEN
4) ONLY PRESEN

FRAME DRIVE

FRAME FLYBACK

FEEDBACK

2V/DIV 20µs/DIV
TP32

0,2V/D

50mV/DIV 5ms/DIV
TP24

Synchronisation

CVBS

IDENT

50/60Hz

15625Hz

50Hz

H.REF.

DATA

IDENT.

TV

FBB

D36 D37 D38 D101

A133 C104 C102 C41 C105 C4 6

Frame

50mV/DIV 5ms/DIV
TP23

1V/DIV 10µs/DIV
TP41

1V/DIV 5mS/DIV
TP41

2V/DIV 5µs/DIV
TP42

0,5V/DIV 5ms/DIV
TP42

1V/DIV 5ms/DIV
TP29

1V/DIV 5ms/DIV
TP30

0,2V/DIV 10µs/DIV
TP31

2V/DIV 5ms/DIV
TP39

REMARKS
1) FOR 29" SETS
2) FOR 25" SETS
3) ONLY PRESENT IN 29" SETS
4) ONLY PRESENT IN 25" SETS

2V/DIV 20µs/DIV
TP32

0,2V/DIV 20µs/DIV
TP34

2V/DIV 20µs/DIV
TP36

Synchronisation

Horizontal

50mV/DIV 5ms/DIV
TP24

2V/DIV 20µs/DIV
TP38

10V/DIV 10ms/DIV
TP43

CHASSIS G112

CL16532047/014 ,DREF 181091

1100	C 2	3140	J 2	3942	F34	7184	I13
1101	D 3	3141	L 5	3943	E31	7185	C11
1174	B 9	3142	E 3	3944	E32	7188	M11
1953	L29	3143	F 3	3945	E32	7193	M12
A 2102	D 3	3144	I 4	3946	E32	7196	M13
2109	E 4	3146	J 5	3947	E32	7197	M14
2110	F 4	3147	K 5	3948	M32	7530	N27
2111	E 5	3148	L 1	3949	N34	7705	I18
2132	F 5	3150	J 6	3950	M32	7710	K16
2140	K 3	3155	N 4	3951	M32	7713	L17
2141	K 2	3157	I 7	3952	L32	7719	N16
2143	K 4	3161	I14	3953	L32	7757	J23
B 2144	G 3	3162	K14	3954	N32	7801	B17
2148	L 1	3163	E10	3956	N31	7804	D18
2150	D 4	3164	G11	3957	N31	7805	E17
2151	I 5	3165	F10	3958	M31	7911	K31
2152	I 7	3166	C11	3959	L31	7920	K25
2153	K 8	3167	N14	3960	L30	7925	I26
2154	K 7	3168	D10	3962	M30	7962	N30
2155	M 4	3170	E10	3963	M30	7963	M29
C 2156	M 7	3171	E13	3964	N33	9901	F30
2157	I 7	3172	E10	3965	N33	9902	D30
2158	N 7	3173	E11	3965	N31		
2159	N 6	3174	B 9	3970	L33		
2161	C 9	3175	E13	3975	L26		
2162	D10	3176	E13	3976	L26		
2163	E 9	3177	D14	3980	H30		
D 2165	G10	3178	E14	3981	H30		
2166	C11	3179	E13	5105	D 5		
2168	D14	3180	H11	5150	J 6		
2171	E12	3181	E13	5156	J 7		
2173	E11	3182	H12	5161	A 8		
2174	C10	3183	I12	5161	K 1		
2175	C11	3184	H13	5161	L 6		
2176	B11	3185	I13	5162	D10		
E 2180	H10	3186	L11	5168	D12		
2181	H 9	3188	L10	5169	A 9		
2182	I14	3189	L10	5170	B12		
2183	J14	3190	M10	5173	A12		
2184	K14	3191	M10	5901	A28		
2185	K 9	3192	M11	5915	H27		
2186	K10	3193	H10	5921	J25		
F 2187	K10	3194	L12	5930	I29		
2188	M10	3195	L13	5933	L29		
2190	N10	3196	M13	5940	G32		
2196	M14	3197	N14	5945	E30		
2197	N13	3198	D12	5964	I25		
2301	O24	3199	L13	5975	M25		
2343	N24	3267	L11	6109	F 4		
2530	N28	3301	N25	6110	F 4		
G 2531	O28	3331	M25	6111	E 5		
2570	N26	3471	M18	6112	F 5		
2622	O26	3483	L25	6131	I 5		
2703	H22	3530	M27	6132	I 5		
2704	H22	3531	N28	6140	K 2		
2705	M24	3570	M26	6141	L 5		
2720	L17	3622	N26	6143	L 5		
2722	H19	3702	N20	6144	G 3		
H 2724	H18	3707	K17	6150	K 6		
2727	J17	3710	K16	6151	L 2		
2730	N19	3711	K17	6154	M 4		
2731	M23	3712	K16	6155	M 4		
2735	N21	3713	L17	6156	K 7		
2740	M18	3714	M16	6161	D 9		
2741	N18	3715	M17	6163	F 9		
I 2748	H21	3716	N17	6164	F 9		
2750	H20	3718	M16	6173	E11		
2751	H19	3719	K16	6174	B10		
2756	K23	3722	H19	6175	D13		
2757	K23	3723	H18	6176	B10		
2804	E17	3727	I16	6180	H 9		
2805	E16	3728	J16	6181	I11		
2807	C18	3729	J16	6183	J10		
J 2813	E19	3730	L23	6184	I12		
2814	E19	3731	L23	6185	I13		
2815	E21	3732	L23	6186	L 9		
2901	C25	3734	N21	6188	L 9		
2903	A25	3735	N21	6189	M10		
2904	A26	3736	M21	6190	M 9		
2910	K30	3737	M22	6192	N12		
K 2915	H27	3738	N20	6196	J14		
2921	J24	3739	N17	6197	L15		
2922	J25	3740	N17	6585	B26		
2924	F33	3748	H20	6705	M24		
2925	J26	3749	H20	6757	J24		
2926	J27	3750	H19	6758	J22		
2927	K27	3754	J23	6801	C17		
2930	K29	3755	K22	6802	C16		
L 2931	K29	3756	I24	6803	D17		
2932	L29	3757	J24	6804	D17		
2940	G33	3758	I23	6901	B26		
2941	G32	3801	B17	6903	A25		
2945	E32	3802	C16	6910	K31		
2950	M33	3803	C18	6924	F33		
M 2951	N32	3804	E16	6925	J27		
2952	L32	3807	C19	6925	G33		
2960	M31	3810	E19	6927	K27		
2961	L31	3811	D20	6945	E31		
2962	M30	3814	E22	6948	M32		
2970	M33	3815	F21	6950	N33		
2975	M27	3817	F20	6951	N33		
2976	M26	3818	E20	6963	M29		
N 2980	H29	3821	F20	6964	M29		
2981	I31	3822	F20	6975	L27		
3001	E 2	3823	F21	6980	H29		
3101	D 4	3901	B27	7140	J 3		
3106	D 7	3904	B27	7143	K13		
3107	D 5	3910	K32	7143	K 4		
3107	D 6	3911	K30	7146	J 5		
3108	D 6	3912	K32	7147	K 6		
3108	D 7	3915	H26	7156	H 6		
O 3131	J 7	3920	K24	7165	F10		
3136	J 1	3921	I25	7173	D11		
3137	J 1	3922	J25	7175	D13		
3138	J 1	3925	J26	7182	H14		
3139	J 2	3941	G33	7183	J14		

NICAM module

NICAM SOUND MODULE

QPSK demodulator

NICAM decoder

Sound selector

Stereo decoder

Digital

REMARKS

PRESENT IN SETS:

1) PRESENT FOR PAL I
2) PRESENT FOR PAL B/G DUAL-MODULE
3) NOT INSERTED
4) PRESENT FOR PAL B/G MONO-MODULE

**	PIN 9 7040	PIN 4 7040
STEREO	0V	0V
DUAL	0V	5V
MONO	5V	0V

**	PIN 9 7040	PIN 4 7040
STEREO	0V	0V
DUAL	0V	5V
MONO	5V	0V

*	
FOR -/57	
2356,2357	15n
2358,2359	6n8
3356,3357	2k7
3358,3359	15k
3345	4k7

REMARKS

PRESENT IN SETS:

1) PRESENT FOR PAL I
2) PRESENT FOR PAL B/G DUAL-MODULE
3) NOT INSERTED
4) PRESENT FOR PAL B/G MONO-MODULE

Digital filter

D/A Conversion

Low pass filter

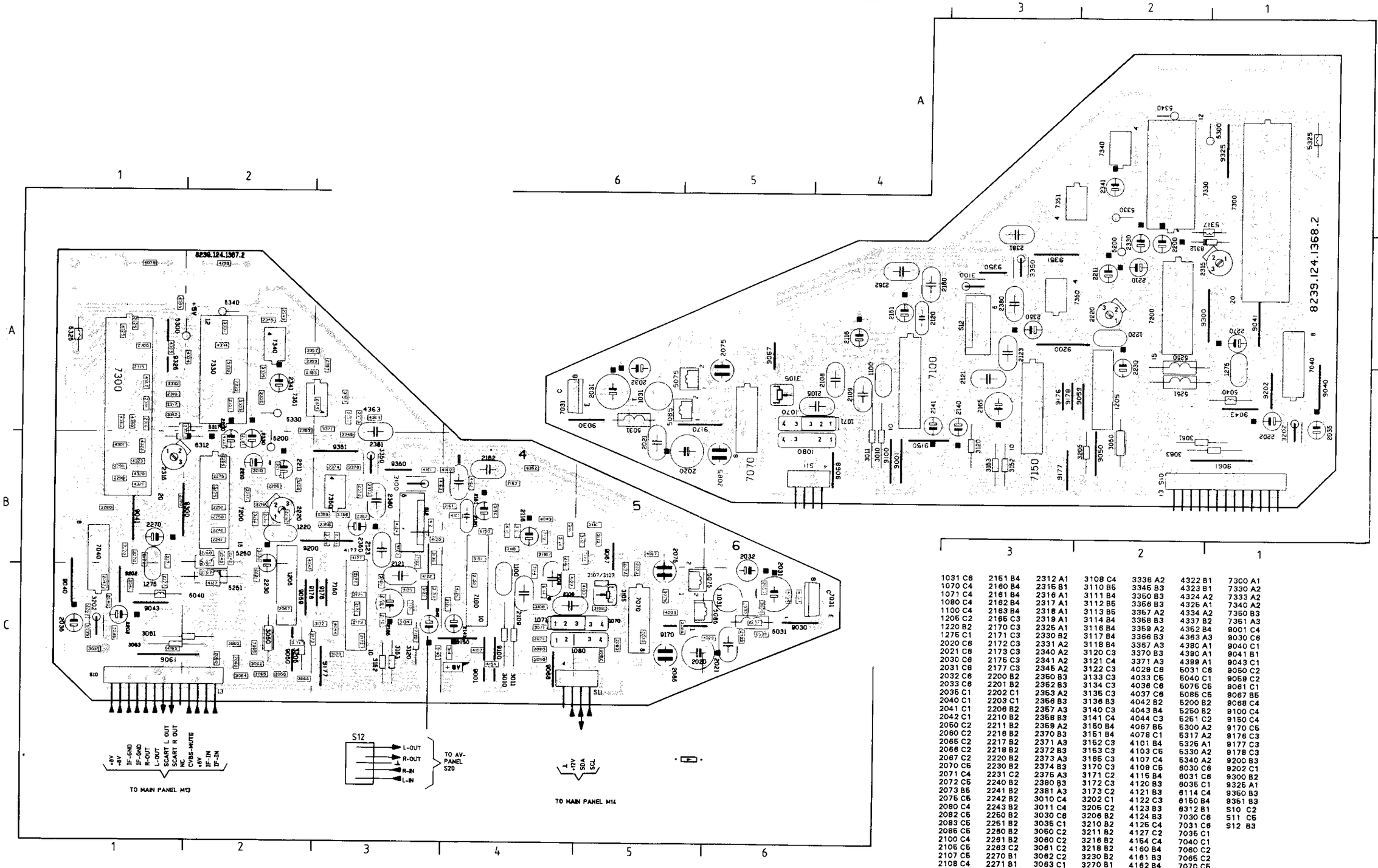
ereo decoder

CHASSIS G112

CL16532047/015.EREF 181091

1031	K 2	3010	E 3	7122	J23
1070	K 6	3011	F 3	7150	K27
1071	J 6	3030	L 2	7200	C 6
1080	I 6	3035	J 2	7300	D14
1100	N14	3050	B 2	7330	D22
1205	C 4	3060	B 2	7333	C24
1220	G 6	3061	C 2	7340	D27
1275	A11	3062	B 2	7350	C33
2020	J 1	3063	C 2	7351	F33
2021	J 2	3064	C 2		
2030	N 2	3071	K 5		
2031	M 3	3075	J 8		
2032	N 3	3080	M 5		
2033	L 3	3085	N 8		
2035	J 3	3100	I 3		
2040	B20	3105	K11		
2041	C20	3106	K11		
2042	C21	3107	L11		
2050	B 1	3108	L12		
2060	C 1	3110	N10		
2065	C 3	3111	M11		
2066	C 3	3112	N11		
2067	D 3	3113	N11		
2070	J 7	3114	M11		
2071	K 5	3116	N11		
2072	L 6	3117	N12		
2073	L 7	3118	M12		
2075	J 8	3120	J21		
2080	L 5	3121	I22		
2082	M 6	3122	I22		
2083	M 7	3133	J22		
2085	N 8	3134	J21		
2100	I 3	3135	I23		
2105	K12	3136	J23		
2107	L12	3140	J21		
2108	L11	3141	J20		
2109	L13	3150	N17		
2110	M10	3151	N17		
2116	O11	3152	F 3		
2120	N15	3153	G 3		
2140	J20	3165	M26		
2141	J19	3170	L31		
2150	N25	3171	L31		
2151	N17	3172	M31		
2160	K21	3173	M31		
2161	L21	3202	J 3		
2162	K21	3205	E 4		
2163	L20	3206	C 5		
2165	N26	3210	B 6		
2170	N29	3211	B 5		
2171	K29	3216	F 5		
2172	N30	3218	F 7		
2173	K30	3230	G 8		
2175	N28	3270	A10		
2177	N28	3275	B11		
2200	G11	3276	B12		
2201	G12	3280	C13		
2202	K 3	3310	G16		
2203	K 4	3312	G16		
2206	C 5	3331	C24		
2210	B 6	3332	D24		
2211	B 5	3333	C25		
2216	G 5	3335	C27		
2217	F 6	3336	D26		
2218	G 7	3345	H30		
2220	G 5	3350	D31		
2230	F 8	3356	B31		
2231	G 8	3357	E31		
2240	B 9	3358	C31		
2241	F11	3359	F31		
2242	F 9	3366	B32		
2243	F 9	3367	E32		
2250	B 8	3370	B32		
2251	B 7	3371	E32		
2260	F10	4120	J24		
2261	F10	4121	K23		
2263	B 9	4123	J24		
2270	B10	4124	K23		
2271	B10	4302	G16		
2275	B11	4320	B15		
2276	B11	4321	C15		
2277	B12	4322	B16		
2280	C13	4323	C16		
2285	B 7	470n	K26		
2290	C12	470n	K26		
2291	E12	5031	M 3		
2300	G13	5040	A20		
2300	N 4	5075	I 8		
2310	G16	5085	N 8		
2312	G17	5200	F12		
2315	G18	5250	B 8		
2316	G17	5251	B 7		
2317	G19	5300	N 4		
2318	G19	5317	G18		
2319	G16	5325	G19		
2325	G19	5330	C25		
2330	D26	5340	C29		
2331	D26	6030	N 3		
2340	C29	6031	M 2		
2341	C29	6035	J 2		
2345	G28	6114	N12		
2350	E30	6150	O17		
2352	E31	6312	G17		
2353	H31	7030	M 2		
2356	B31	7031	N 3		
2357	E31	7035	J 3		
2358	B31	7040	A18		
2359	F31	7060	C 2		
2370	B33	7065	C 3		
2371	E33	7070	K 7		
2372	B32	7100	J14		
2373	E32	7110	N10		
2374	C32	7112	M11		
2375	F32	7114	M12		
2380	G34	7120	J22		
2381	G33	7121	I23		

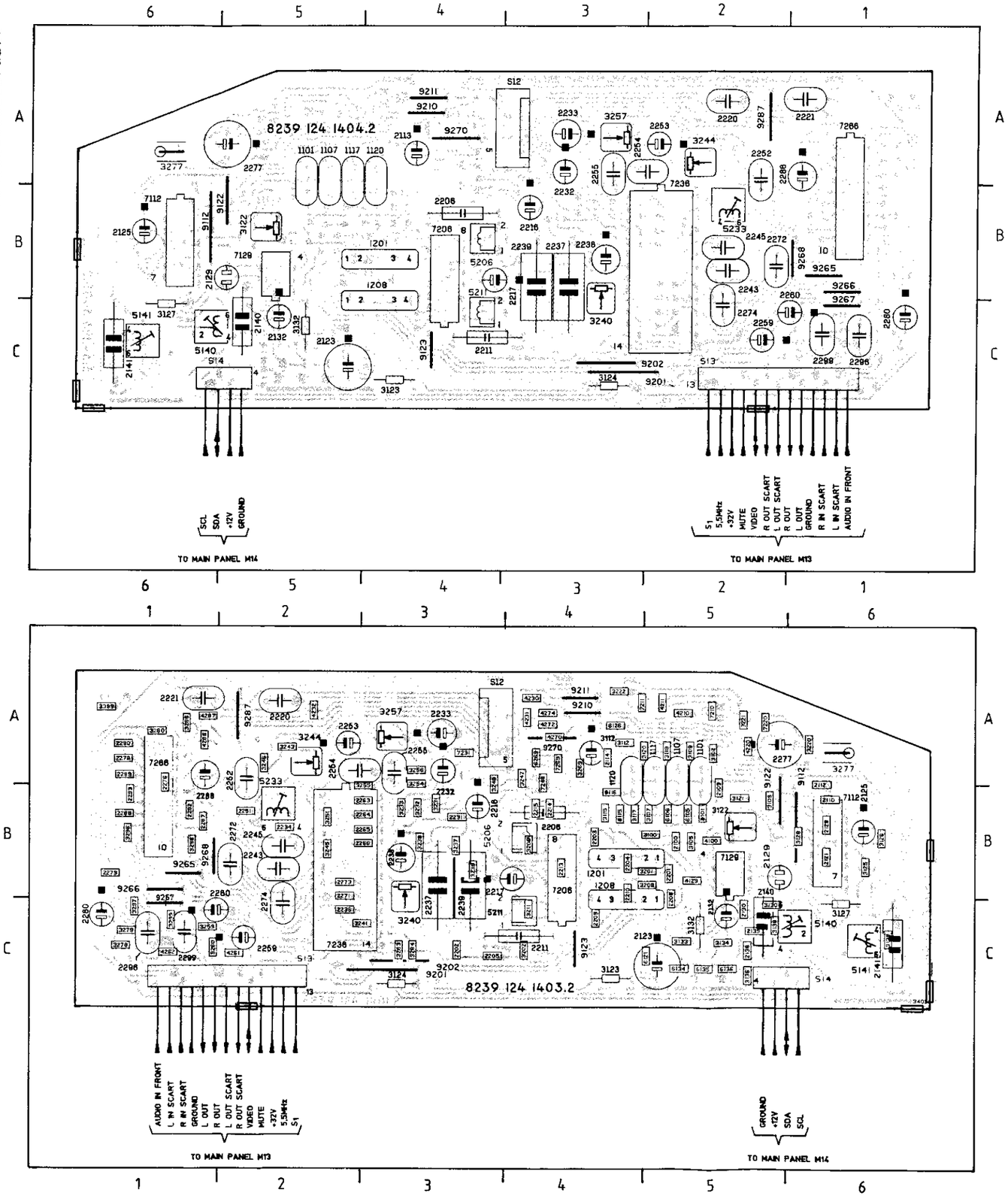
NICAM module



1031 C6	2161 B4	2312 A1	3108 C4	3336 A2	4322 B1	7300 A1
1070 C4	2160 B4	2315 B1	3110 B6	3346 B3	4323 B1	7330 A2
1071 C4	2161 B4	2316 A1	3111 B4	3350 B3	4324 A2	7333 A2
1080 C4	2162 B4	2317 A1	3112 B6	3356 B3	4325 A1	7340 A2
1100 C4	2163 B4	2318 A1	3113 B5	3357 A2	4334 A2	7350 B3
1205 C2	2165 C3	2319 A1	3114 B4	3358 B3	4337 B2	7351 A3
1220 B2	2170 C3	2325 A1	3116 B4	3359 A2	4352 B4	9001 C4
1275 C1	2171 C3	2330 B2	3117 B4	3366 B3	4363 A3	9030 C6
2020 C6	2172 C3	2331 A2	3118 B4	3367 A3	4380 A1	9040 C1
2021 C6	2173 C3	2340 A2	3120 C3	3370 B3	4390 A1	9041 B1
2030 C6	2175 C3	2341 A2	3121 C4	3371 A3	4389 A1	9043 C1
2031 C6	2177 C3	2345 A2	3122 C3	4028 C6	5031 C6	9050 C2
2032 C6	2200 B2	2360 B3	3133 C3	4033 C5	5040 C1	9059 C2
2033 C6	2201 B2	2362 B3	3134 C3	4036 C6	5076 C5	9061 C1
2035 C1	2202 C1	2363 A2	3135 C3	4037 C6	5086 C5	9067 B5
2040 C1	2203 C1	2368 B3	3136 B3	4042 B2	5200 B2	9068 C4
2041 C1	2208 B2	2367 A3	3140 C3	4043 B4	5250 B2	9100 C4
2042 C1	2210 B2	2368 B3	3141 C4	4044 C3	5251 C2	9150 C4
2060 C2	2211 B2	2369 A2	3150 B4	4067 B5	5300 A2	9170 C5
2060 C2	2216 B2	2370 B3	3151 B4	4078 C1	5317 A2	9176 C3
2065 C2	2217 B2	2371 A3	3152 C3	4101 B4	5325 A1	9177 C3
2066 C2	2218 B2	2372 B3	3153 C3	4103 C5	5330 A2	9178 C3
2067 C2	2220 B2	2373 A3	3165 C3	4107 C4	5340 A2	9200 B3
2070 C5	2230 B2	2374 B3	3170 C3	4109 C5	6030 C6	9202 C1
2071 C4	2231 C2	2375 A3	3171 C2	4116 B4	6031 C6	9300 B2
2072 C5	2240 B2	2380 B3	3172 C3	4120 B3	6035 C1	9325 A1
2073 B5	2241 B2	2381 A3	3173 C2	4121 B3	6114 C4	9360 B3
2075 C5	2242 B2	3010 C4	3202 C1	4122 C3	6150 B4	9361 B3
2080 C4	2243 B2	3011 C4	3205 C2	4123 B3	6312 B1	S10 C2
2082 C5	2250 B2	3030 C6	3206 B2	4124 B3	7030 C6	S11 C5
2083 C5	2251 B2	3035 C1	3210 B2	4125 C4	7031 C6	S12 B3
2085 C5	2260 B2	3060 C2	3211 B2	4127 C2	7035 C1	
2100 C4	2261 B2	3080 C2	3216 B2	4154 C4	7040 C1	
2105 C5	2263 C2	3081 C2	3218 B2	4160 B4	7060 C2	
2107 C5	2270 B1	3082 C2	3230 B2	4161 B3	7065 C2	
2108 C4	2271 B1	3083 C1	3270 B1	4162 B4	7070 C5	
2109 C4	2275 B2	3064 C2	3275 B2	4163 B3	7100 B4	
2110 B4	2276 B1	3071 C4	3276 B1	4177 B3	7110 B5	
2118 B4	2277 C1	3075 C5	3280 B1	4186 C1	7112 B4	
2120 B4	2280 B1	3080 C4	3310 A1	4299 C2	7114 C4	
2121 C3	2285 B2	3085 C5	3312 A1	4301 B1	7120 C3	
2123 B3	2290 B1	3100 B3	3331 A2	4302 A1	7121 C3	
2140 C3	2291 B1	3105 C5	3332 A2	4305 A1	7122 B3	
2141 C4	2300 A1	3106 C5	3333 A2	4320 B1	7150 B3	
2150 C3	2310 A1	3107 C5	3336 A2	4321 B1	7200 B2	

Sound module

CHASSIS G112 6.31 6.32 CHASSIS G112



1101 A5 3208 B4
1107 A5 3211 C4
1117 A5 3220 A6
1120 B4 3221 A5
1201 B4 3222 A4
1208 C4 3231 B3
2100 B5 3232 B3
2109 B5 3233 B3
2110 B6 3237 B3
2112 B6 3238 B3
2113 A4 3239 B3
2114 A4 3240 B3
2121 B6 3241 C2
2123 C5 3243 A2
2125 B6 3244 A2
2128 B6 3245 B2
2129 B5 3246 A2
2130 C5 3247 A4
2132 C5 3248 B3
2138 C5 3251 B2
2138 C5 3264 B3
2140 C5 3266 B2
2141 C6 3268 A3
2201 B5 3267 A3
2202 C3 3269 C1
2203 B4 3280 C1
2204 B4 3289 A4
2205 C3 3277 A6
2206 B4 3278 C1
2208 C5 3279 C1
2208 C4 3280 A1
2210 B4 3283 C3
2211 C4 3284 C3
2213 B4 3286 A1
2214 B4 3296 B1
2215 B4 3297 C1
2216 B3 3298 B1
2217 B4 3299 C1
2220 A2 3399 A1
2221 A1 4100 B5
2231 B3 4101 B5
2232 A3 4116 B4
2233 A3 4116 B4
2234 B2 4128 B5
2236 C2 4210 A5
2237 B3 4211 A5
2238 B3 4220 A6
2239 B3 4230 A4
2243 B2 4231 A4
2245 B2 4232 A2
2261 B2 4261 C2
2262 A2 4262 C1
2263 A2 4270 A4
2264 A2 4272 A4
2265 A3 4274 A4
2269 C2 4286 A1
2260 C1 4287 A1
2263 B2 5140 C6
2264 B2 5141 C6
2265 B2 5206 B4
2268 B2 5211 C4
2271 C2 5233 B2
2272 B2 6105 B5
2273 B2 6106 B5
2274 C2 6115 B4
2276 B1 6116 B4
2277 A5 6121 C4
2278 A1 6128 A4
2279 B1 6134 C5
2280 C1 6135 C5
2286 A1 6136 C5
2287 B1 6269 A4
2288 B1 7112 B6
2289 A1 7129 B5
2290 A1 7206 C4
2292 B1 7210 A5
2293 B1 7211 A4
2296 C1 7220 A5
2299 C1 7231 A3
3100 B5 7236 B3
3101 B5 7248 B4
3102 A5 7266 A1
3105 B5 7289 A4
3107 B4 9112 B6
3108 A5 9122 B5
3109 B5 9123 C4
3112 A4 9201 C3
3115 B4 9202 C3
3117 B4 9210 A4
3118 A5 9211 A4
3120 A4 9265 B1
3121 B5 9266 B1
3122 B5 9267 C1
3123 C4 9268 B1
3124 C3 9270 A4
3126 B6 9287 A2
3126 B6 S12 A3
3127 C6 S13 C2
3128 B6 S14 C8
3130 C5
3132 C5
3133 C5
3134 C5
3136 C5
3138 C5
3139 C6
3201 B4
3202 C4
3206 B4

Sound module

F

ONLY FOR SETS WITH MULTI-MONO SOUND

Multi sound demodulator

ONLY FOR SETS WITH SINGLE/DUAL MONO SOUND

Single/dual mono sound demodulator

ONLY FOR SETS WITH STEREO SOUND

Demodulator

Stereo Identification dematrix

R OUT SCART

L OUT SCART

SCL

SDA

STEREO 117.5Hz

DUAL 274.1Hz

F

ONLY FOR SETS WITH SINGLE/DUAL MONO SOUND

Single/dual mono sound demodulator

7112 TBA120U

REMARKS

PRESENT IN SETS:

1) ADDED FOR DUAL SOUND
2) 3139 = 1K5 (DUAL SOUND)
   3139 = JUMPER (SINGLE SOUND)

ONLY FOR SETS WITH: MULTI MONO SOUND SINGLE/DUAL MONO SOUND

Stereo identification dematrix

7236 TDA8405

7266 TDA8425

7129-2B LM358

7269 BC848

7210 BC848

7211 BC848

7220 BC848

7231 BC639

7248 BC848

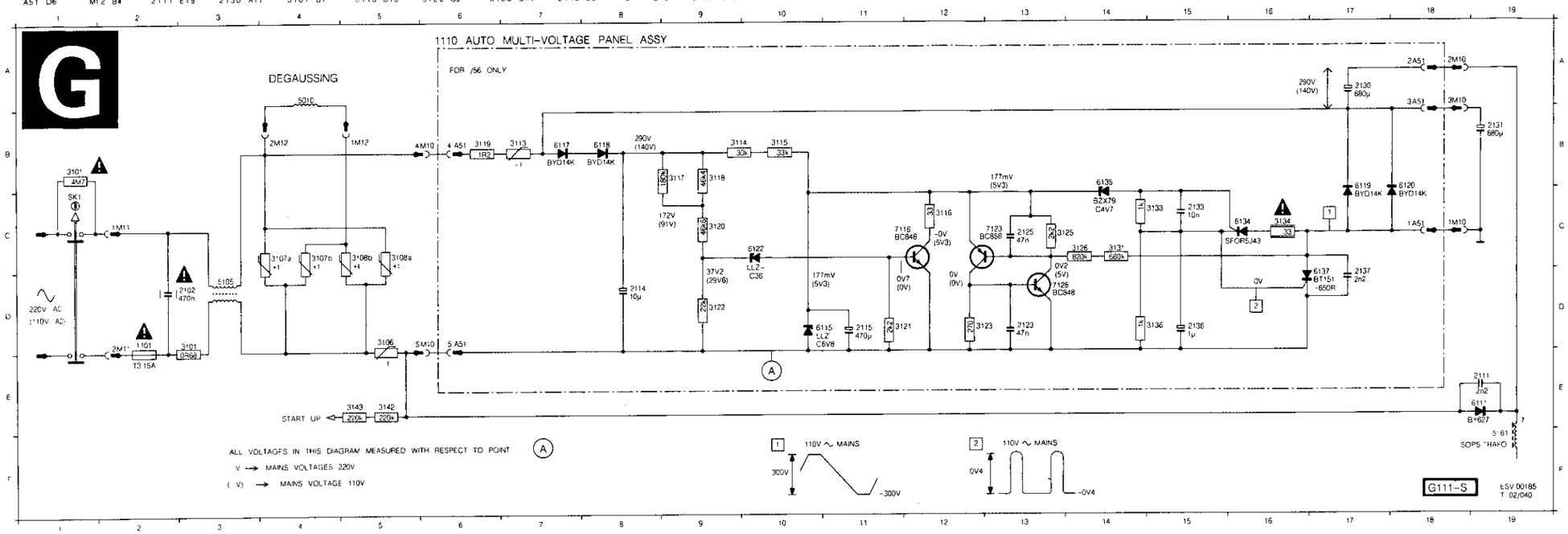
CHASSIS G112

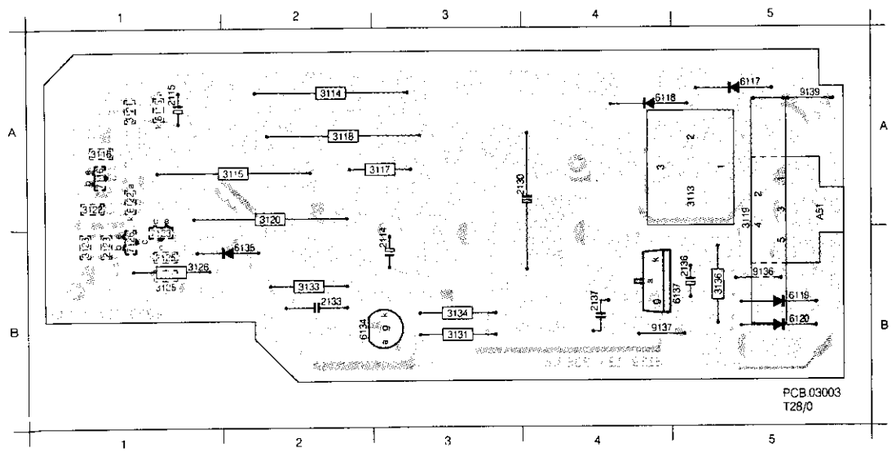
CL16532047/016, FREF 181091

1101	C18	3132	F 5
1107	C 7	3133	F 5
1110	B 6	3134	F 6
1117	D 7	3136	E 6
1120	D 7	3138	E 8
1120	C18	3138	G21
1201	K 5	3139	G22
1208	I 5	3201	K 4
2100	B 3	3202	J 4
2100	B16	3206	L 8
2109	C 8	3208	J 4
2109	C20	3211	J 8
2110	C 8	3220	I29
2110	C21	3221	J28
2112	C11	3222	J29
2112	C23	3231	L11
2113	C25	3232	L11
2113	C13	3233	L12
2114	C25	3237	K11
2114	C13	3238	K12
2121	B 9	3239	J11
2121	B21	3240	J12
2123	B10	3241	I15
2123	B21	3243	M15
2125	D11	3244	M15
2125	D24	3245	L15
2128	F10	3246	M15
2128	D22	3247	N14
2129	F12	3248	N14
2130	G 6	3251	L14
2132	G 5	3254	M16
2138	E 8	3255	L16
2139	F 8	3256	M17
2140	F 8	3257	M17
2140	F21	3259	L19
2141	F22	3260	L20
2201	K 4	3269	G28
2202	J 3	3277	M 4
2203	K 6	3283	L21
2204	L 6	3284	L21
2205	I 3	3286	M23
2206	L 8	3296	K28
2208	I 4	3297	K28
2209	J 6	3298	L28
2210	J 6	3299	L28
2211	H 8	4101	B18
2213	I 7	4115	C17
2214	I 6	4116	C18
2215	I 6	4261	L19
2216	K10	4272	G29
2217	J10	4274	G28
2220	K23	5140	E 9
2221	K23	5140	E21
2231	K10	5141	E22
2232	L11	5206	M 7
2233	L12	5211	H 7
2234	L13	5233	M12
2236	I16	6105	B 5
2237	K11	6106	B 6
2239	J11	6115	C 4
2243	M15	6116	C 6
2245	M15	6121	B10
2251	M14	6121	B21
2252	M14	6126	E13
2253	M13	6126	D24
2254	M17	6134	F 6
2255	M16	6135	F 7
2259	K18	6136	F 7
2260	K18	6289	F27
2263	L17	7112	B 8
2264	L17	7112	B21
2265	L18	7129	D 4
2266	L18	7129	E12
2271	J17	7206	I 6
2272	J18	7210	I28
2273	J18	7211	J28
2274	I18	7220	J29
2276	M23	7231	M11
2277	M 4	7236	I13
2286	M23	7248	N14
2287	J26	7266	J23
2288	M26	7269	F28
2289	J24		
2290	J25		
2292	J25		
2293	M25		
3100	C 4		
3100	C17		
3101	B 5		
3102	B 7		
3102	B19		
3105	D 5		
3107	C 6		
3108	B 7		
3109	C 8		
3109	C20		
3112	C24		
3112	C13		
3115	D 4		
3117	E 7		
3118	C 7		
3120	D 7		
3120	C19		
3121	A10		
3122	A11		
3123	A 9		
3123	A21		
3124	A10		
3124	A21		
3125	C12		
3125	C24		
3126	C13		
3126	D24		
3127	F12		
3128	F11		
3130	F 6		

Auto multivoltage module

A51 A18 M10 B6 M12 B5 2114 D8 2131 B19 3101 D3 3116 C12 3121 D11 3131 C14 3143 E5 6115 D10 6122 C10 7126 D13
A51 B18 M10 D6 SK1 C1 2115 D11 2133 C15 3106 D5 3117 B9 3122 D9 3133 C15 5010 A4 6117 B7 6134 C16 3107a C4
A51 B6 M11 C2 1101 D2 2123 D13 2136 D15 3113 B7 3118 B9 3123 D12 3134 C16 5105 D3 6118 B8 6135 B14 3107b C4
A51 C18 M11 D2 2102 D3 2125 C13 2137 D17 3114 B9 3119 B6 3125 C13 3136 D15 5161 F19 6119 C17 6137 D17 3108a C5
A51 D6 M12 B4 2111 E19 2130 A17 3101 B1 3115 B10 3120 C9 3126 C14 3142 E5 6111 E19 6120 C18 7116 C13 3108b C5





A51 A5 7126 B1
2114 B3 9136 B5
2115 A1 9137 B4
2123 B1 9139 A5
2125 B1
2130 A4
2133 B2
2136 B6
2137 B4
3113 A5
3114 A2
3115 A2
3116 A1
3117 A2
3118 A2
3119 B5
3120 A2
3121 A1
3122 A1
3123 B1
3125 B1
3126 B1
3131 B3
3133 B2
3134 B3
3136 B5
6115 A1
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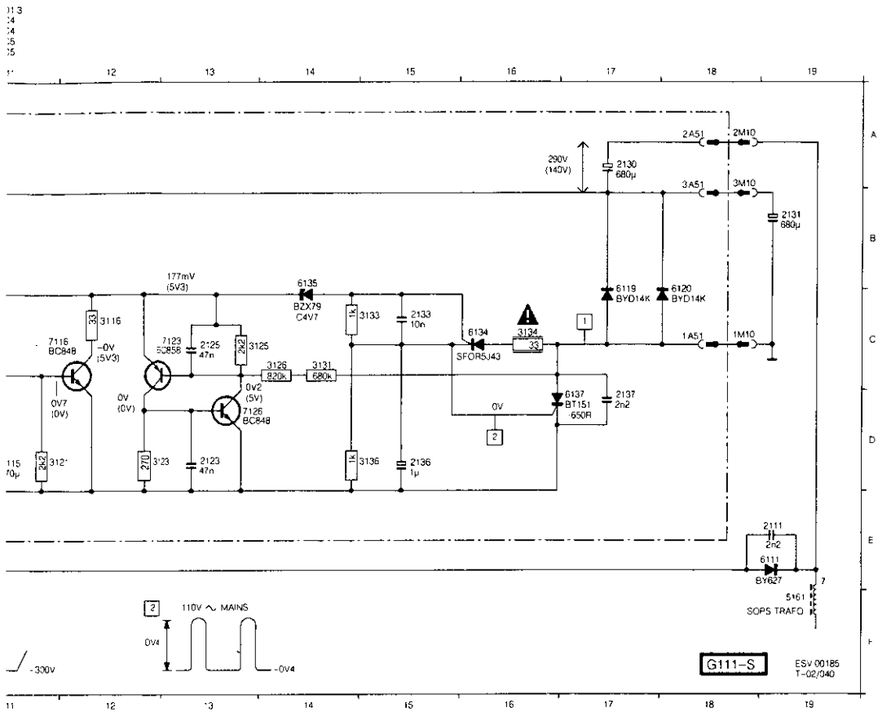
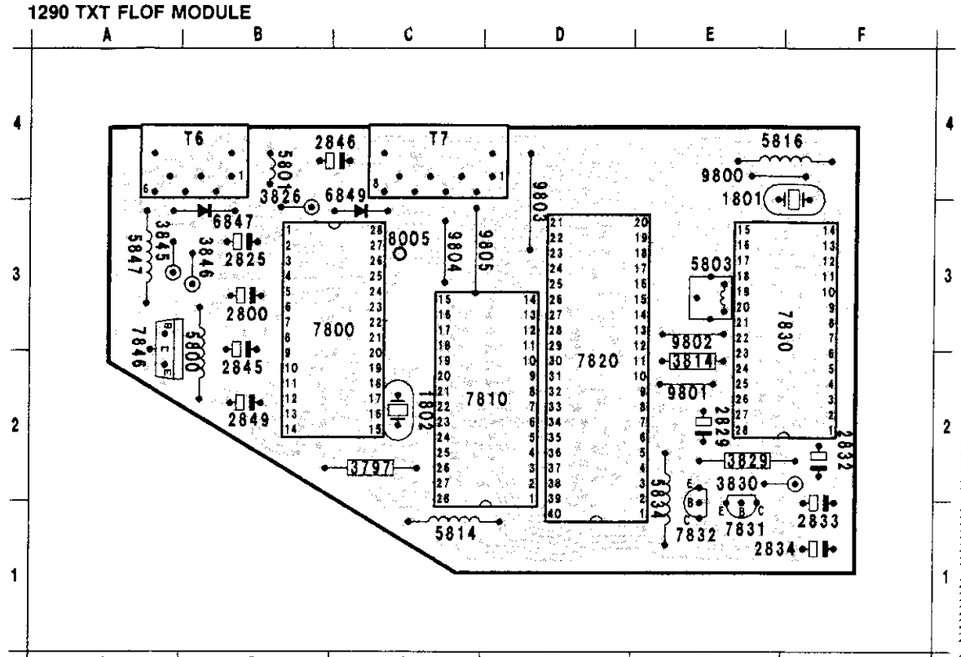
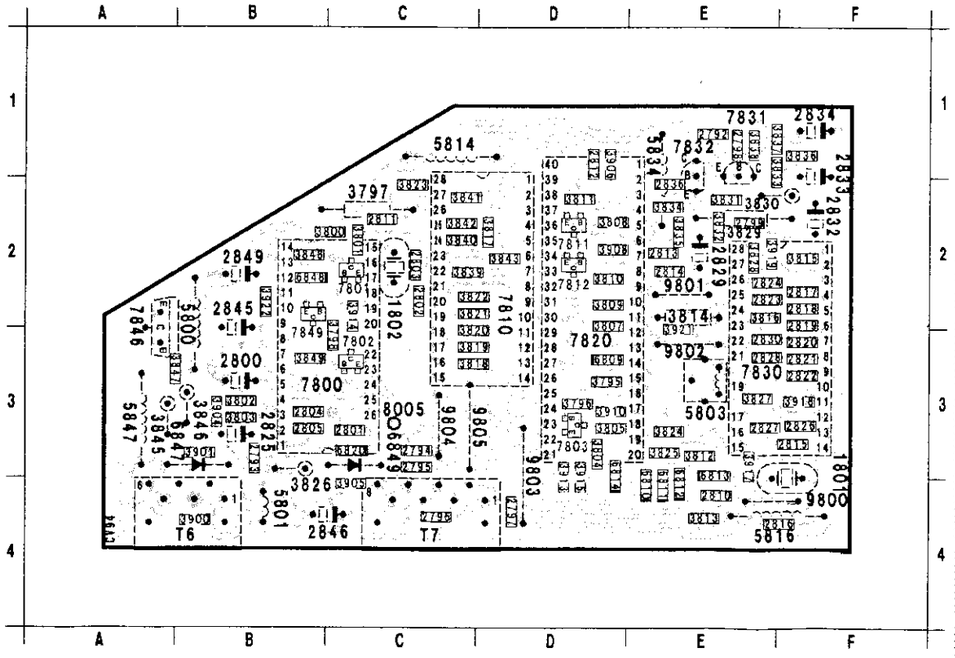
6135 B2
6137 B5
7116 A1
7123 B1



Teletext module

1290 TXT FLOF MODULE

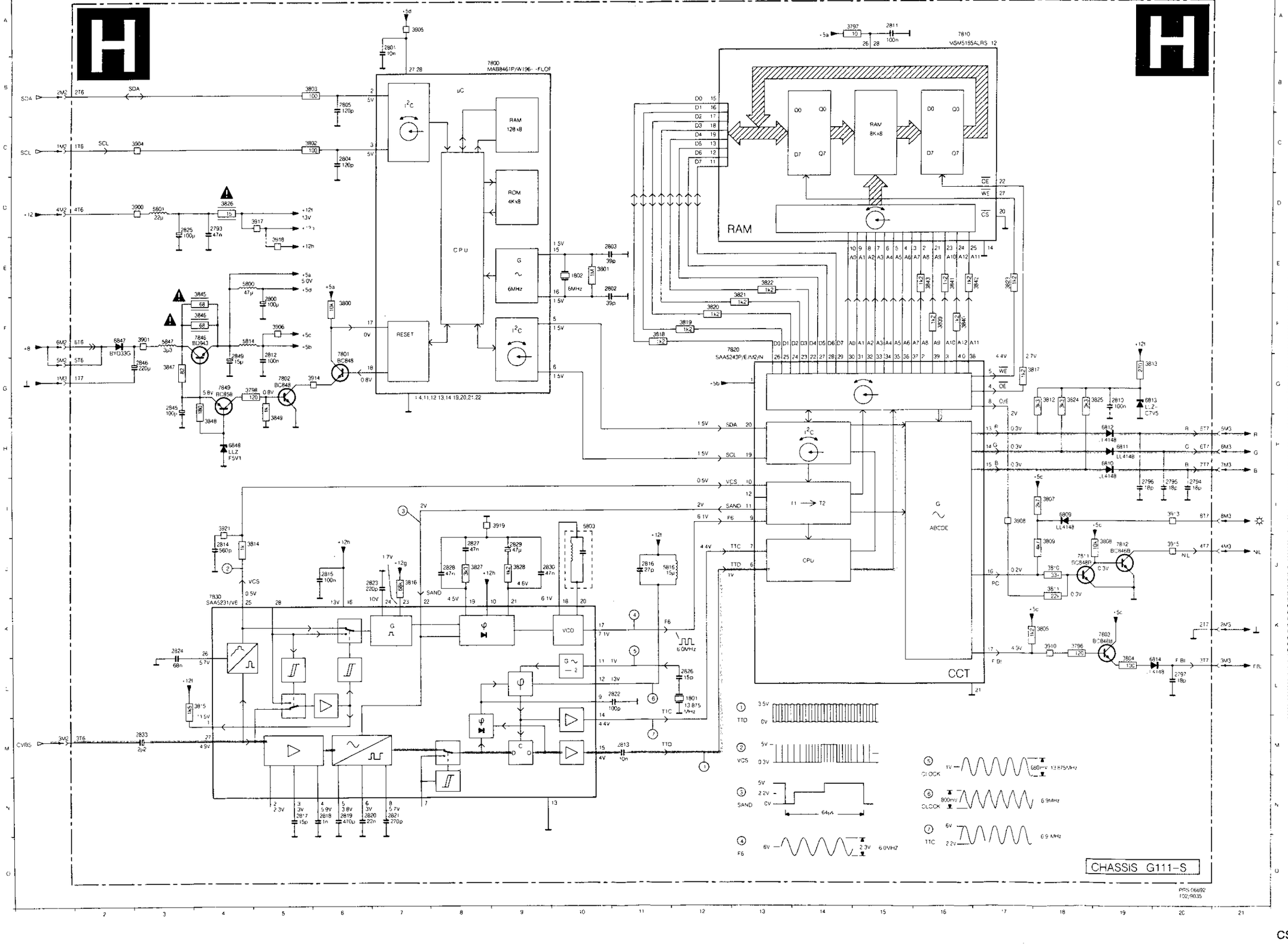




Teletext module

CHASSIS G112 | 6.39 | 6.40 | CHASSIS G112

TXT DECODER – FLOF



Electrical Settings

1. Settings on the carrier board

1.1 +140V power supply voltage
Connect a voltmeter (DC) across C2162. Adjust potentiometer 3172 to +140V ± 0.5V.

1.2 Horizontal synchronization
Interconnect pins 5 and 9 of IC7705.
Apply an aerial signal.
Adjust potentiometer 3749 until the picture is straight. Remove the interconnection.

1.3 Horizontal centring
Set the brightness and contrast control to nominal.
Adjust with potentiometer 3737.

1.4 Picture width
Is adjusted with potentiometer 3956.

1.5 Vertical centring
Is adjusted with switch SK14.

1.6 Picture height
Is adjusted with potentiometer 3739.

1.7 Focusing
Is adjusted with the focusing potentiometer in the line output transformer.

1.8 VG2 adjustment
Connect a signal generator (e.g. PM5515) and set it to black raster signal.
Set brightness, contrast and saturation to a minimum. Measure with an oscilloscope (frame-frequent) to the points 6,8 and 11 of the picture tube. Note at which level the lower side of each oscilloscope lies (see Fig. 7.1). Now connect the oscilloscope to the point where the lowest level was noted. Adjust with the Vg_2 potentiometer so, that this level becomes 150V (see Fig. 7.1)

1.9 RF AGC
If the picture of a strong local transmitter is reproduced distorted, adjust potentiometer 3325 until the picture shows no distortion.

1.10 AFC
Connect a D.C. voltmeter to pin 5 of IC7325.
Connect a signal generator as shown in Fig. 7.2.
Set the signal generator to *MHz (see table I) and adjust coil 5336 for a voltage of 6.0V ±0.2V.

1.11 Chroma bandpass filter

a. **Setting for PAL/SECAM sets (TDA4650)**
Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.286 MHz/0.2 Vpp. Switch the unit to EXT1. Connect pin 27 IC7520 to pin 13 IC7520 (+12V). Connect an oscilloscope to pin 15 IC7520 Set 5503 to maximum amplitude.
Remove the interconnection.

b. **Setting for PAL sets (TDA4510)**
Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.43 MHz. Connect the unit to EXT1.
Connect an oscilloscope to pin 9 IC7521.
Set 5503 to maximum amplitude.

1.12 Subcarrier oscillator

a. **PAL sets (TDA4510)**
Apply a colour signal with 4.43MHz subcarrier. Connect point 11 of IC7521 to ground. Adjust 2527 in such a manner so that the colour on the screen has practically come to a standstill. Remove the interconnection.

b. **PAL/SECAM sets (TDA4650)**
Apply a colour signal with 4.43Mhz subcarrier. Connect point 17 of IC7520 to ground and interconnect points 28 and 13. Adjust 2528 in such a manner so that the colour on the screen has practically come to a standstill. Remove the interconnections.

c. **MULTI system sets (TDA4650)**
Repeat setting 1.11b.
Apply a colour signal with 3.58Mhz subcarrier. Connect point 17 of IC7520 to ground and interconnect points 26 and 13. Adjust 2528 in such a manner so that the colour on the screen has practically come to a standstill. Remove the interconnection.

1.13 The 4.43 Mhz and the 3.58Mhz chroma trap in the luminance circuit
Apply a colourbar signal with 4.43 Mhz subcarrier. Connect an oscilloscope to point 16 of IC7550 and adjust L5553 to minimum amplitude of the chrominance signal.

1.14 SECAM demodulators for PAL/SECAM sets (TDA4650)
Connect a pattern generator and supply a SECAM black pattern. Connect an oscilloscope to pin 1 IC7520. Turn R3536 fully clockwise. Set 5536 to minimum amplitude.
Connect the oscilloscope to pin 3 IC7520. Set 3536 to minimum amplitude.

1.15 The picture demodulator
Connect a signal generator (e.g. PM5326) as shown in Fig. 7.2 and adjust it for a frequency of *MHz (see table I). Modulate (AM) the signal with for instance 1 kHz. Desolder resistor 2315 at one side. Connect an oscilloscope to pin 5 of IC7355 and adjust 5335 for a maximum distortion free signal. Ensure that the demodulator is not overloaded. Secure capacitor 2315 again by soldering.

Version	IF Frequency
/65,/67,/68,/69,/79	38.9MHz
/56	38.9MHz
/75	36.875MHz
/57	39.5MHz
/58	38.0MHz

1.16 The intercarrier demodulator
Connect a signal generator (e.g. PM5326) as indicated in Fig. 7.3 and adjust it for a frequency of 38,9 Mhz (38.0 Mhz for /93). Modulate (AM) the signal with for instance 1 kHz. Connect an oscilloscope to pin 12 of IC7000 and adjust 5000 for a minimum amplitude. Ensure that the demodulator is not overloaded.

1.17 Alignment of I.F.-response curve (/56/65/67/68 only)
Inject a signal of 37.4 Mhz (100mV) via a capacitor of 1nF to point 17 of tuner 1300. Measure the output at pin 1 of sawfilter 1331. Reduce the output of the generator to 34.4 Mhz. Adjust coil 5316 for an output of -18dB ± 0.5dB with relation to the output voltage measured at 37.4Mhz.

2 Settings on the stereo sound module

Note: Where the adjustment mention a generator signal, colour pattern generator PM5515 has been used.

2.1 The 5,5 Mhz (6,5 Mhz for /93)sound section
Apply a generator signal (PAL or SECAM B/G) whose sound carrier is (FM) modulated with a frequency of for instance 1 kHz. Set the generator to the mono mode and adjust 5211 for a minimum interference in the sound. Or measure with an oscilloscope at pin 4 IC7206 (oscilloscope in the AC mode) and adjust 5211 for a maximum amplitude.

2.2 The 5,742Mhz (6,742 Mhz for /93) sound section

a. Apply a generator signal (PAL or SECAM B/G) with two sound carriers, of which the sound carriers have been modulated with a frequency (e.g. 1 kHz) and the second sound carrier has been provided with the pilot signal for the 2nd language. Select II by means of the remote control.

b. Next adjust 5206 for a minimum interference in the sound. Or measure with an oscilloscope at pin 5 IC7206 (oscilloscope in mode AC) and adjust 5206 for maximum amplitude.

2.3 Pilot tone adjustment
Apply a generator signal as in point 2a. Adjust 5233 so that the set switches over well between language I and language II (pilot tone = 54,688 kHz).

2.4 Stereo matrix
Apply a generator signal and set the generator to the stereo mode and modulate the (R) right channel with 1kHz. Connect an oscilloscope to pin 20 IC7236 and adjust 3240 for a minimum amplitude.

2.5 117,5 Hz active filter (stereo filter)
Apply a generator signal and set the generator to the stereo mode. Both sound carriers are unmodulated. Connect an oscilloscope to pin 23 IC7236 and adjust 3244 for a maximum amplitude.

2.6 274,1 Hz active filter (2nd language filter)
Apply a generator signal with 2 sound carriers which are unmodulated. (Generator in the DUAL mode) Connect an oscilloscope to pin 2 of IC7236 and adjust 3257 for a maximum amplitude.

3. Settings on the NICAM sound module

3.1 The 5,5 Mhz(6,0 Mhz for /57) sound section
Apply a generator signal (PM5515) and set the generator to the mono mode. Sound carrier M1 has to be modulated with a frequency of 1 kHz. Adjust 5075 for a minimum interference in the sound. Or measure with an oscilloscope at pin 4 of IC7070 (oscilloscope in the AC mode) and adjust 5075 for a maximum amplitude.

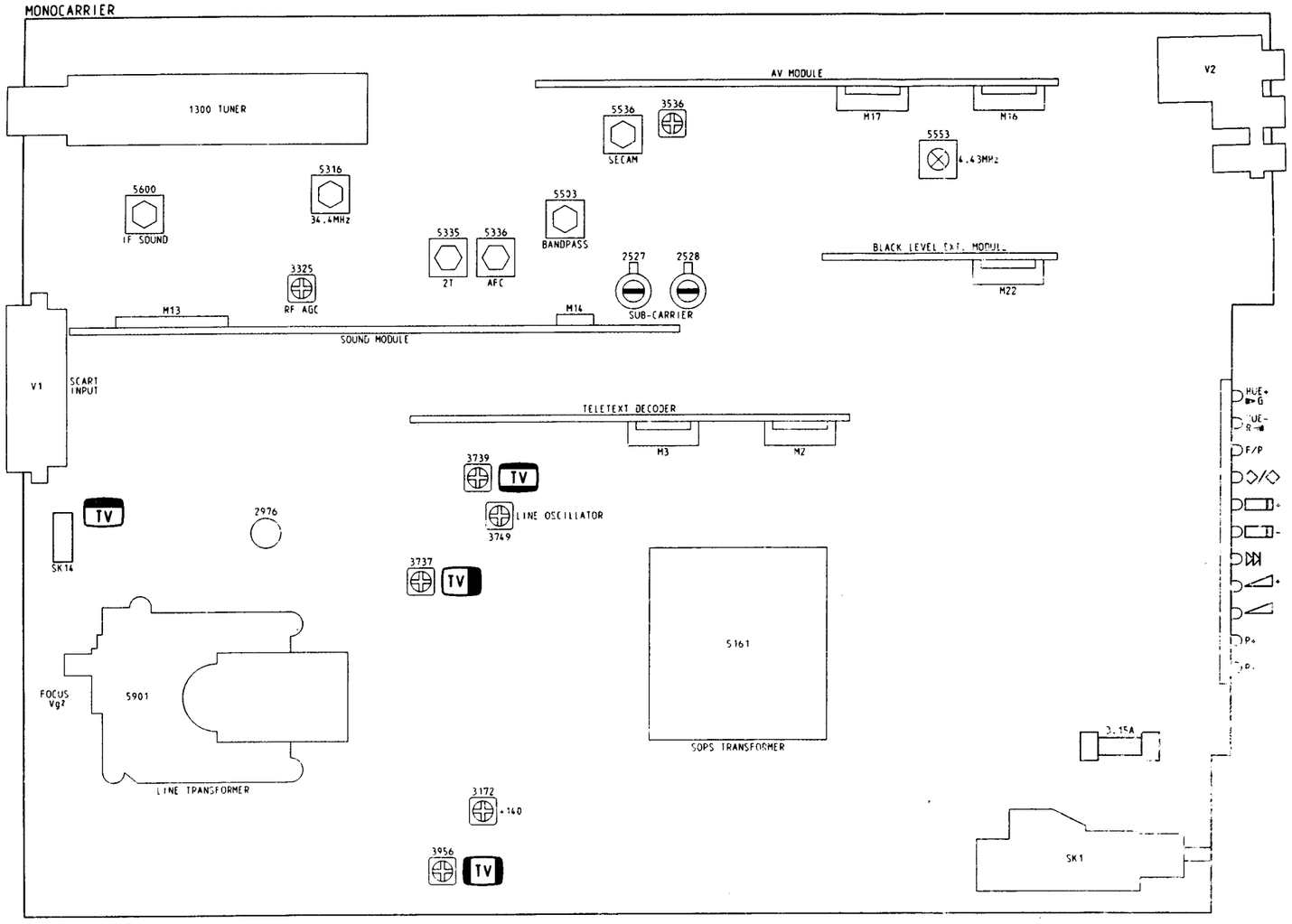
3.2 The 5,742 Mhz sound section
Apply a generator signal (PM5515) and set the generator to the dual mode. Sound carrier M2 (R) has to be modulated with a frequency of 1 kHz. Select language II on the set by means of the remote control. Adjust 5075 for a minimum interference in the sound. Or measure with an oscilloscope at pin 5 of IC7070 (oscilloscope in mode AC) and adjust 5085 for maximum amplitude.

3.3 Stereo matrix
Apply a generator signal (PM5515) and set the generator to the stereo mode. Sound carrier M2 has to be modulated with a frequency of 1 kHz. Connect an oscilloscope to pin 14 of IC7100 and adjust 3105 for a minimum amplitude.

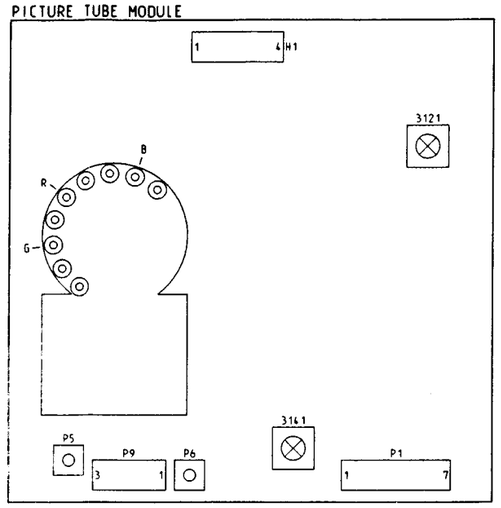
3.4 The NICAM demodulator
Apply an aerial or generator signal provided with a NICAM sound signal. Connect an oscilloscope in X-Y operation to pins 19 and 20 of IC7200 (which signal is used as X or as Y drive is immaterial). Adjust the oscilloscope for a sensitivity (both X and Y) of 1 V/div AC. Adjust the X and Y position so that the cross pattern is situated in the centre of the oscilloscope picture. Adjust 2220 for a straight cross pattern (see Fig. 7.4).

3.5 The NICAM sample clock oscillator
Apply an aerial or generator signal provided with a NICAM sound signal. Connect an oscilloscope to pin 9 of IC7300. Adjust the oscilloscope for a sensitivity of 1 V/div and a time base of 2 µsec/div. Adjust 2315 for a still and symmetric square wave (50% duty cycle).

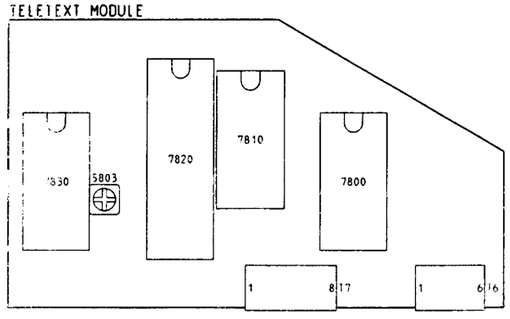
MONOCARRIER



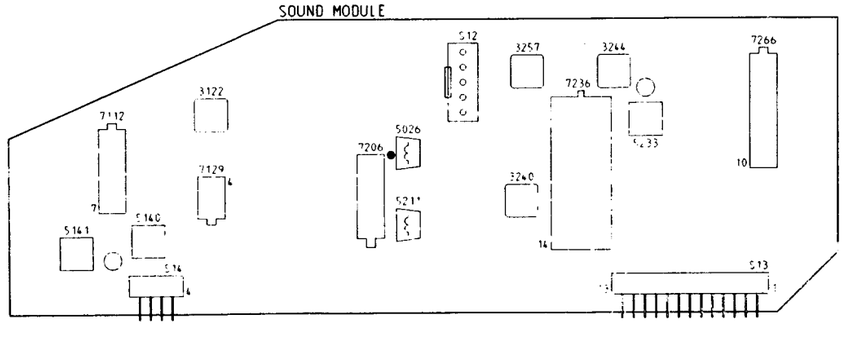
PICTURE TUBE MODULE



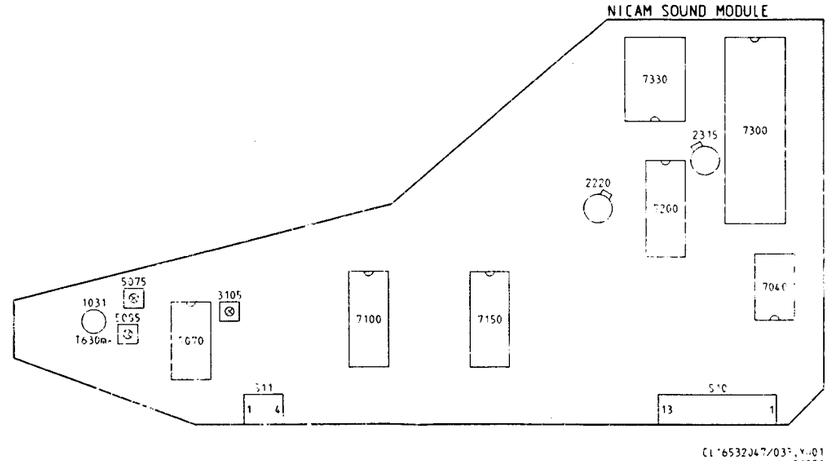
TELETEXT MODULE



SOUND MODULE



NICAM SOUND MODULE



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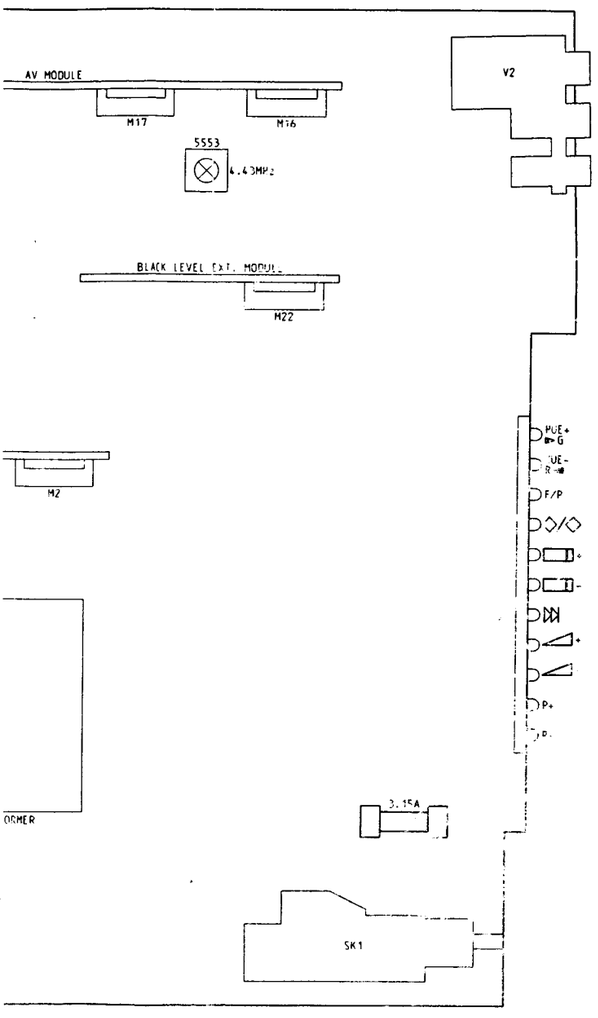
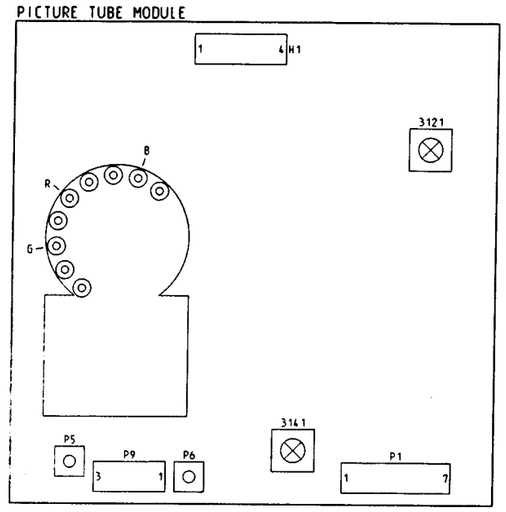
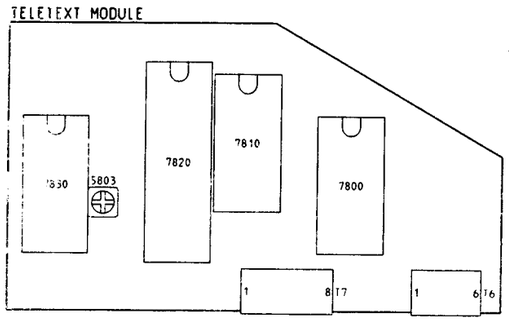
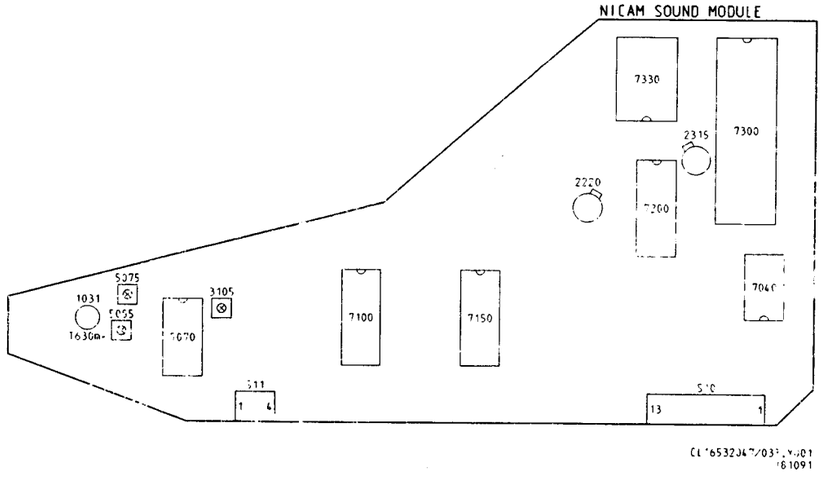
181091









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4. Settings on the mono sound module

4.1 Dual mono sound circuit

Apply transmitter or generator signal, of which the sound carrier (PAL B,G 5,5 MHz) is modulated with one frequency (for instance 1kHz). Next adjust 5141 towards minimum interference in the sound (=maximum AM suppression). Apply transmitter or generator signal, of which the sound carrier (PAL D,K 6,5 Mhz) is modulated with one frequency (for instance 1kHz). Next adjust 5140 towards minimum interference in the sound (= maximum AM suppression). If there is no interference present in the sound it may be generated with a collector motor of which the interference is not suppressed.

4.2 Multi sound circuit

Apply a generator or transmitter signal with 5.5 Mhz picture-sound distance.
Next apply 12V DC to pin 14 of IC7112 via a resistor of 470kΩ.
Measure pin 8 of IC7112 voltage as V1 volt (DC).
Then disconnect the 12V and the resistor. Now adjust R3122 such that the voltage at pin 8 of IC7112 is again V1 volt (DC). Adjust L5140 for an output voltage of 8V at pin 7 of IC7129.

4.3 PAL B/G mono sound

Apply a generator or transmitter signal, of which the sound carrier (PAL B/G 5,5MHz) is modulated with one frequency (for instance 1kHz). Next adjust 5140 towards minimum interference in the sound (=maximum AM suppression).

5. Settings on the picture tube panel

5.1 Cut-off points

Apply an aerial signal. Adjust contrast, brightness and saturation for minimum.

5.2 Grey scale

Apply a grey scale pattern and adjust the set for normal operation. Allow the set to warm-up for about 10 minutes. Adjust 3380 and 3384 until the desired grey scale has been obtained.

6. Settings on the teletext decoder

Connect pin 22 of IC7830 to ground. Connect a frequency counter to pin 17 of IC7830 and adjust 5803 for 6,000 Mhz ± 30 kHz.

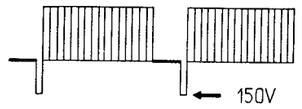

Fig. 7.1

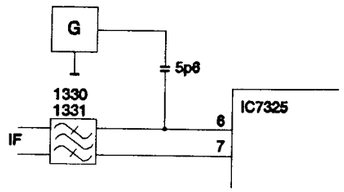

Fig. 7.2

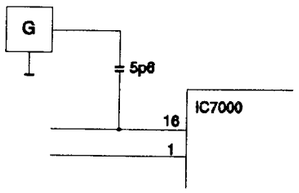

Fig. 7.3

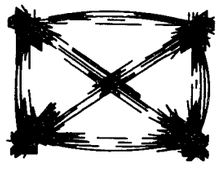

Fig. 7.4

Repair tips

Error messages displayed via OSD and flashing LED
(on time is 58msec; off time is variable)

Error message on the screen	Off time (ms) Flashing LED indication	Description of error	Possible defective component
F0	58	Internal Ram	IC7240
F1	117	12V power	supply
F2	235	Internal timer	IC7200
F3	469	Nicam Decoder	IC7040
F4	958	EEPROM error	IC7278
F5	827	Stereo decoder	IC7236 IC7100
F6	606	Sound control amplifier	IC7150 IC7266
F7*	164	Teletext decoder	IC7820 IC7800
F8	-	Chroma Processing	IC7570
F9	-	Chroma Processing	IC7550
FA	-	Tuner error	1300
FB	-	PIP error	Reserved

Note:
If there is no picture the off time of the LED indication can be measured by means of an oscilloscope, in order to nevertheless be able to determine which error message has been generated.

*) This error message only occurs in a functioning set. After switching-off and on the set this error message will no longer be given while the error continues to exist.

Spare parts list

Mono carrier

4822 290 60626	2p female mains	
4822 264 40207	3p male wtb	
4822 264 50148	8p male btb	
4822 265 20439	2p hor defl	
4822 265 30351	5p male wtb	
4822 265 30378	4p male wtb	
4822 265 30389	2p male	
4822 265 30796	4p vert defl	
4822 265 40442	10p male wtb	
4822 265 40822	7p male wtb	
4822 267 30639	2p male mains	
4822 267 40648	5p male btb	
4822 267 50591	6p male btb	
4822 267 50861	8p male wtb	
4822 267 60243	scart 21p	
4822 267 50823	foil conn.	
4822 267 20355	cinch	
4822 267 20387	svhs socket	

various

	4822 256 30274	fuse holder
	4822 256 91844	led
	4822 273 30324	sk4
	4822 276 12916	sk1
	4822 276 13195	sk1 for /68
	4822 401 10751	pcb spacer
	4822 404 31058	holder sk1
	4822 404 31059	strap heats.
	4822 404 31219	Surr snd brack
	4822 404 31221	s-corr bracket
	4822 432 92152	cover sk1
	4822 432 92822	cover sk1 /68
	4822 492 70429	spring 7156
	4822 492 70429	spring 7801
	4822 492 70429	spring 7963
	4822 492 70429	spring 7804
	4822 492 70429	spring 7610
	4822 492 70507	spring 7925
	4822 492 70507	spring 7615
1101	4822 070 33152	FUSE 3.15AT
1174	4822 071 51602	FUSE 1.6AT
1200	4822 212 22983	INFRA RED RC5
1210	4822 218 21059	KEYBOARD ASSY
1255	4822 242 70831	CER. RES 4MHz
1300	4822 210 10465	UV964/IEC
1300	4822 210 10466	UV914/IEC
1300	4822 210 50124	UV916E/IEC
1300	4822 210 10471	UV954/IEC
1330	4822 242 72554	OFWG3254
1330	4822 242 73202	OFWB3250
1330	4822 242 73561	OFWJ3250
1331	4822 242 71613	OFWK1950
1331	4822 242 72197	OFWK2950
1344	4822 153 30025	TPS6.0MB
1344	4822 242 72086	TPS5.5MB
1346	4822 153 30025	TPS6.0MB
1346	4822 157 63723	TRAP 5.74MHz
1346	4822 157 63724	TRAP 5.8MHz
1346	4822 242 71375	TPS6.5MB
1348	4822 242 71207	TPS4.5MB
1350	4822 242 81077	4.43MHz
1527	4822 242 70304	8.867MHz
1527	4822 242 70736	7.159MHz
1528	4822 242 70304	8.867MHz
1550	4822 320 40257	160ns

2000	4822 124 40435	10µF 20% 50V
2001	4822 124 41577	4,7µF 20% 50V
2005	4822 122 31784	4,7nF 10% 50V
2007	4822 124 40195	150µF 20% 16V
2008	4822 122 33496	100nF 10% 63V
2102	4822 121 51457	470nF 10% 275V
2109	4822 122 32769	2N2 10% 1kV
2110	4822 122 32769	2N2 10% 1kV
2111	4822 122 33824	2.2nF 10% 1kV
2131	4822 124 41891	680µF 20% 250V
2132	4822 124 23169	330µF 20% 400V
2140	4822 122 31839	82pF 10% 50V
2141	4822 122 40594	470pF 10% 1kV
2143	4822 122 31808	150pF 10% 50V
2144	4822 121 51319	1µF 10% 63V
2148	4822 121 51319	1µF 10% 63V
2151	4822 122 33302	1nF 10% 50V
2152	4822 122 40594	470pF 10% 1kV
2153	4822 122 31644	2,2nF 10% 63V
2154	5322 121 42465	68nF 5% 63V
2155	4822 122 31644	2,2nF 10% 63V
2156	4822 126 10832	330pF 10% 2kV
2157	4822 122 32771	1,5nF 10% 2kV
2158	4822 122 31695	1nF 10% 2kV
2159	4822 122 40602	1nF 20% 400V
2160	4822 126 10831	33pF 10% 400V
2161	4822 122 33824	2.2nF 10% 1kV
2162	4822 124 22349	100µF 10% 160V
2163	4822 122 31348	120pF 2% 500V
2165	5322 122 33446	3,3nF 10% 63V
2166	4822 124 42105	1000µF 20% 50V
2168	4822 124 22349	100µF 10% 160V
2171	4822 124 41506	47µF 20% 16V
2173	4822 121 51115	270nF 10% 63V
2174	5322 122 32331	1nF 10% 100V
2175	4822 124 21338	1000µF 20% 50V
2176	4822 124 22606	68µF 20% 16V
2180	4822 124 22582	2200µF 20% 16V
2181	4822 122 31644	2,2nF 10% 63V
2182	4822 124 41564	100µF 20% 25V
2183	4822 124 41564	100µF 20% 25V
2184	4822 122 32927	220nF
2185	4822 122 31644	2,2nF 10% 63V
2186	4822 124 41578	6,8µF 20% 50V
2187	4822 124 41578	6,8µF 20% 50V
2188	4822 122 31981	33nF 0,5pF 50V
2190	4822 121 51099	22nF 2% 63V
2196	4822 122 31797	22nF 10% 63V
2197	4822 122 31797	22nF 10% 63V
2207	4822 122 31797	22nF 10% 63V
2238	4822 122 31765	100pF 5% 50V
2245	4822 124 40242	1µF 20% 63V
2255	4822 122 31825	27pF 10% 50V
2256	4822 122 31825	27pF 10% 50V
2257	4822 124 40196	220µF 20% 16V
2258	4822 122 31971	10pF 10% 50V
2259	4822 122 31971	10pF 10% 50V
2260	4822 124 40272	33µF 20% 16V
2261	4822 122 32927	220nF
2262	4822 122 32442	10nF 50V
2264	4822 122 33496	100nF 10% 63V
2301	4822 124 40195	150µF 20% 16V
2302	4822 122 32442	10nF 50V
2303	4822 122 31781	1500pF 10% 50V
2307	4822 124 40272	33µF 20% 16V
2308	4822 122 33496	100nF 10% 63V
2309	4822 124 40272	33µF 20% 16V
2310	4822 122 31797	22nF 10% 63V
2314	4822 122 31971	10pF 10% 50V
2315	4822 122 32442	10nF 50V
2316	4822 122 32442	10nF 50V
2317	4822 122 32504	15pF 5% 50V
2325	4822 122 32442	10nF 50V
2326	4822 124 40242	1µF 20% 63V
2327	4822 124 41678	22µF 20% 25V
2330	4822 122 31644	2,2nF 10% 63V
2332	4822 122 32442	10nF 50V
2334	4822 126 11147	820nF 25% 500V
2335	4822 126 11147	820nF 25% 500V
2336	4822 122 32504	15pF 5% 50V
2340	4822 122 33498	2,7nF 10% 63V
2341	4822 124 40243	1,5µF 20% 63V
2343	4822 124 40195	150µF 20% 16V
2345	4822 122 31772	47pF 5% 50V
2355	4822 124 40435	10µF 20% 50V
2359	4822 122 33496	100nF 10% 63V
2401	4822 122 31784	4,7nF 10% 50V
2403	4822 122 32142	270pF 5% 63V
2405	4822 122 31784	4,7nF 10% 50V
2407	4822 122 32142	270pF 5% 63V
2430	4822 124 40195	150µF 20% 16V
2435	4822 124 40195	150µF 20% 16V
2440	4822 124 40195	150µF 20% 16V
2459	4822 121 51252	470nF 5% 63V
2500	4822 122 31772	47pF 5% 50V
2502	4822 122 31774	56pF 5% 50V
2503	4822 122 31765	100pF 5% 50V
2504	4822 122 31773	560pF 5% 50V
2505	4822 122 31765	100pF 5% 50V
2505	4822 122 31766	120pF 5% 50V
2506	4822 122 31961	68pF 5% 63V
2507	4822 122 31768	180pF 5% 50V
2507	4822 122 31965	220pF 5% 63V
2508	5322 122 31842	330pF 5% 63V
2510	4822 122 31965	220pF 5% 63V
2511	4822 122 31965	220pF 5% 63V
2512	4822 122 33496	100nF 10% 63V
2513	4822 122 33496	100nF 10% 63V
2514	4822 122 32442	10nF 50V
2515	4822 122 32442	10nF 50V
2516	4822 121 51319	1µF 10% 63V
2517	4822 122 31797	22nF 10% 63V
2518	4822 122 31797	22nF 10% 63V
2522	5322 121 42661	330nF 5% 63V
2523	4822 122 32542	47nF 10% 63V
2524	4822 122 33496	100nF 10% 63V
2527	4822 125 50534	20pF 150V
2528	4822 125 50534	20pF 150V
2530	4822 124 40272	33µF 20% 16V
2531	4822 124 40849	330µF 20% 16V
2532	4822 124 40435	10µF 20% 50V
2534	4822 122 32504	15pF 5% 50V
2535	4822 122 32504	15pF 5% 50V
2536	4822 122 31765	100pF 5% 50V
2537	4822 122 31727	470pF 5% 63V
2538	4822 122 31727	470pF 5% 63V
2540	4822 124 40435	10µF 20% 50V
2541	4822 122 31746	1000pF 5% 50V
2542	4822 122 31746	1000pF 5% 50V
2543	4822 122 32482	22pF 5% 63V
2544	4822 122 32542	47nF 10% 63V
2545	4822 122 32442	10nF 50V
2546	4822 122 32482	22pF 5% 63V
2552	4822 122 32927	220nF
2553	4822 122 31971	10pF 10% 50V
2554	4822 122 33205	12pF 10% 63V

Mono carrie

2555	4822 1	
2556	4822 1	
2557	4822 1	
2558	4822 1	
2559	4822 1	
2560	4822 1	
2561	4822 1	
2562	4822 1	
2563	4822 1	
2564	4822 1	
2567	4822 1	
2568	4822 1	
2570	4822 1	
2571	4822 1	
2572	4822 1	
2573	4822 1	
2576	4822 1	
2577	4822 1	
2578	4822 1	
2579	4822 1	
2580	5322 1	
2582	4822 1	
2584	4822 1	
2585	4822 1	
2586	4822 1	
2587	4822 1	
2588	4822 1	
2589	4822 1	
2590	4822 1	
2591	5322 1	
2592	4822 1	
2593	4822 1	
2594	4822 1	
2602	4822 1	
2603	4822 1	
2811	4822 1	
2812	4822 1	
2813	5322 1	
2814	4822 1	
2815	4822 1	
2816	4822 1	
2817	4822 1	
2818	4822 1	
2822	4822 1	
2824	4822 1	
2829	4822 1	
2830	4822 1	
2835	4822 1	
2836	4822 1	
2837	4822 1	
2842	4822 1	
2843	4822 1	
2848	4822 1	
2903	4822 1	
2904	4822 1	
2905	4822 1	
2922	4822 1	
2924	4822 1	
2927	4822 1	
2928	4822 1	
2930	4822 1	
2931	4822 1	
2935	4822 1	
2940	5322 1	
2941	5322 1	
2948	4822 1	
2950	4822 1	
2951	4822 1	
2956	4822 1	
2957	4822 1	

Mono carrier

	4822 290 60626	2p female mains
	4822 264 40207	3p male wtb
	4822 264 50148	8p male btb
	4822 265 20439	2p hor defl
	4822 265 30351	5p male wtb
	4822 265 30378	4p male wtb
	4822 265 30389	2p male
	4822 265 30796	4p vert defl
	4822 265 40442	10p male wtb
	4822 265 40822	7p male wtb
	4822 267 30639	2p male mains
	4822 267 40648	5p male btb
	4822 267 50591	6p male btb
	4822 267 50861	8p male wtb
	4822 267 60243	scart 21p
	4822 267 50823	foil conn.
	4822 267 20355	cinch
	4822 267 20387	svhs socket

various

	4822 256 30274	fuse holder
	4822 256 91844	led
	4822 273 30324	sk4
	4822 276 12916	sk1
	4822 276 13195	sk1 for /68
	4822 401 10751	pcb spacer
	4822 404 31058	holder sk1
	4822 404 31059	strap heats.
	4822 404 31219	Surr snd brack
	4822 404 31221	s-corr bracket
	4822 432 92152	cover sk1
	4822 432 92822	cover sk1 /68
	4822 492 70429	spring 7156
	4822 492 70429	spring 7801
	4822 492 70429	spring 7963
	4822 492 70429	spring 7804
	4822 492 70429	spring 7610
	4822 492 70507	spring 7925
	4822 492 70507	spring 7615
1101	4822 070 33152	FUSE 3.15AT
1174	4822 071 51602	FUSE 1.6AT
1200	4822 212 22983	INFRA RED RC5
1210	4822 218 21059	KEYBOARD ASSY
1255	4822 242 70831	CER. RES 4MHz
1300	4822 210 10465	UV964/IEC
1300	4822 210 10466	UV914/IEC
1300	4822 210 50124	UV916E/IEC
1300	4822 210 10471	UV954/IEC
1330	4822 242 72554	OFWG3254
1330	4822 242 73202	OFWB3250
1330	4822 242 73561	OFWJ3250
1331	4822 242 71613	OFWK1950
1331	4822 242 72197	OFWK2950
1344	4822 153 30025	TPS6.0MB
1344	4822 242 72086	TPS5.5MB
1346	4822 153 30025	TPS6.0MB
1346	4822 157 63723	TRAP 5.74MHz
1346	4822 157 63724	TRAP 5.8MHz
1346	4822 242 71375	TPS6.5MB
1348	4822 242 71207	TPS4.5MB
1350	4822 242 81077	4.43MHz
1527	4822 242 70304	8.867MHz
1527	4822 242 70736	7.159MHz
1528	4822 242 70304	8.867MHz
1550	4822 320 40257	160ns

2000	4822 124 40435	10µF 20% 50V
2001	4822 124 41577	4,7µF 20% 50V
2005	4822 122 31784	4,7nF 10% 50V
2007	4822 124 40195	150µF 20% 16V
2008	4822 122 33496	100nF 10% 63V
2102	4822 121 51457	470nF 10% 275V
2109	4822 122 32769	2N2 10% 1kV
2110	4822 122 32769	2N2 10% 1kV
2111	4822 122 33824	2.2nF 10% 1kV
2131	4822 124 41891	680µF 20% 250V
2132	4822 124 23169	330µF 20% 400V
2140	4822 122 31839	82pF 10% 50V
2141	4822 122 40594	470pF 10% 1kV
2143	4822 122 31808	150pF 10% 50V
2144	4822 121 51319	1µF 10% 63V
2148	4822 121 51319	1µF 10% 63V
2151	4822 122 33302	1nF 10% 50V
2152	4822 122 40594	470pF 10% 1kV
2153	4822 122 31644	2,2nF 10% 63V
2154	5322 121 42465	68nF 5% 63V
2155	4822 122 31644	2,2nF 10% 63V
2156	4822 126 10832	330pF 10% 2kV
2157	4822 122 32771	1,5nF 10% 2kV
2158	4822 122 31695	1nF 10% 2kV
2159	4822 122 40602	1nF 20% 400V
2160	4822 126 10831	33pF 10% 400V
2161	4822 122 33824	2.2nF 10% 1kV
2162	4822 124 22349	100µF 10% 160V
2163	4822 122 31348	120pF 2% 500V
2165	5322 122 33446	3,3nF 10% 63V
2166	4822 124 42105	1000µF 20% 50V
2168	4822 124 22349	100µF 10% 160V
2171	4822 124 41506	47µF 20% 16V
2173	4822 121 51115	270nF 10% 63V
2174	5322 122 32331	1nF 10% 100V
2175	4822 124 21338	1000µF 20% 50V
2176	4822 124 22606	68µF 20% 16V
2180	4822 124 22582	2200µF 20% 16V
2181	4822 122 31644	2,2nF 10% 63V
2182	4822 124 41564	100µF 20% 25V
2183	4822 124 41564	100µF 20% 25V
2184	4822 122 32927	220nF
2185	4822 122 31644	2,2nF 10% 63V
2186	4822 124 41578	6,8µF 20% 50V
2187	4822 124 41578	6,8µF 20% 50V
2188	4822 122 31981	33nF 0,5pF 50V
2190	4822 121 51099	22nF 2% 63V
2196	4822 122 31797	22nF 10% 63V
2197	4822 122 31797	22nF 10% 63V
2207	4822 122 31797	22nF 10% 63V
2238	4822 122 31765	100pF 5% 50V
2245	4822 124 40242	1µF 20% 63V
2255	4822 122 31825	27pF 10% 50V
2256	4822 122 31825	27pF 10% 50V
2257	4822 124 40196	220µF 20% 16V
2258	4822 122 31971	10pF 10% 50V
2259	4822 122 31971	10pF 10% 50V
2260	4822 124 40272	33µF 20% 16V
2261	4822 122 32927	220nF
2262	4822 122 32442	10nF 50V
2264	4822 122 33496	100nF 10% 63V
2301	4822 124 40195	150µF 20% 16V
2302	4822 122 32442	10nF 50V
2303	4822 122 31781	1500pF 10% 50V
2307	4822 124 40272	33µF 20% 16V
2308	4822 122 33496	100nF 10% 63V
2309	4822 124 40272	33µF 20% 16V
2310	4822 122 31797	22nF 10% 63V
2314	4822 122 31971	10pF 10% 50V
2315	4822 122 32442	10nF 50V
2316	4822 122 32442	10nF 50V
2317	4822 122 32504	15pF 5% 50V
2325	4822 122 32442	10nF 50V
2326	4822 124 40242	1µF 20% 63V
2327	4822 124 41678	22µF 20% 25V
2330	4822 122 31644	2,2nF 10% 63V
2332	4822 122 32442	10nF 50V
2334	4822 126 11147	820nF 25% 500V
2335	4822 126 11147	820nF 25% 500V
2336	4822 122 32504	15pF 5% 50V
2340	4822 122 33498	2,7nF 10% 63V
2341	4822 124 40243	1,5µF 20% 63V
2343	4822 124 40195	150µF 20% 16V
2345	4822 122 31772	47pF 5% 50V
2355	4822 124 40435	10µF 20% 50V
2359	4822 122 33496	100nF 10% 63V
2401	4822 122 31784	4,7nF 10% 50V
2403	4822 122 32142	270pF 5% 63V
2405	4822 122 31784	4,7nF 10% 50V
2407	4822 122 32142	270pF 5% 63V
2430	4822 124 40195	150µF 20% 16V
2435	4822 124 40195	150µF 20% 16V
2440	4822 124 40195	150µF 20% 16V
2459	4822 121 51252	470nF 5% 63V
2500	4822 122 31772	47pF 5% 50V
2502	4822 122 31774	56pF 5% 50V
2503	4822 122 31765	100pF 5% 50V
2504	4822 122 31773	560pF 5% 50V
2505	4822 122 31765	100pF 5% 50V
2505	4822 122 31766	120pF 5% 50V
2506	4822 122 31961	68pF 5% 63V
2507	4822 122 31768	180pF 5% 50V
2507	4822 122 31965	220pF 5% 63V
2508	5322 122 31842	330pF 5% 63V
2510	4822 122 31965	220pF 5% 63V
2511	4822 122 31965	220pF 5% 63V
2512	4822 122 33496	100nF 10% 63V
2513	4822 122 33496	100nF 10% 63V
2514	4822 122 32442	10nF 50V
2515	4822 122 32442	10nF 50V
2516	4822 121 51319	1µF 10% 63V
2517	4822 122 31797	22nF 10% 63V
2518	4822 122 31797	22nF 10% 63V
2522	5322 121 42661	330nF 5% 63V
2523	4822 122 32542	47nF 10% 63V
2524	4822 122 33496	100nF 10% 63V
2527	4822 125 50534	20pF 150V
2528	4822 125 50534	20pF 150V
2530	4822 124 40272	33µF 20% 16V
2531	4822 124 40849	330µF 20% 16V
2532	4822 124 40435	10µF 20% 50V
2534	4822 122 32504	15pF 5% 50V
2535	4822 122 32504	15pF 5% 50V
2536	4822 122 31765	100pF 5% 50V
2537	4822 122 31727	470pF 5% 63V
2538	4822 122 31727	470pF 5% 63V
2540	4822 124 40435	10µF 20% 50V
2541	4822 122 31746	1000pF 5% 50V
2542	4822 122 31746	1000pF 5% 50V
2543	4822 122 32482	22pF 5% 63V
2544	4822 122 32542	47nF 10% 63V
2545	4822 122 32442	10nF 50V
2546	4822 122 32482	22pF 5% 63V
2552	4822 122 32927	220nF
2553	4822 122 31971	10pF 10% 50V
2554	4822 122 33205	12pF 10% 63V

Mono carrier

2555	4822 122 31825	27pF 10% 50V
2556	4822 122 31765	100pF 5% 50V
2557	4822 122 32442	10nF 50V
2558	4822 122 32442	10nF 50V
2559	4822 122 32927	220nF
2560	4822 122 33496	100nF 10% 63V
2561	4822 122 33496	100nF 10% 63V
2562	4822 122 33496	100nF 10% 63V
2563	4822 122 32927	220nF
2564	4822 122 32927	220nF
2567	4822 122 31797	22nF 10% 63V
2568	4822 124 41506	47µF 20% 16V
2570	4822 124 41506	47µF 20% 16V
2571	4822 124 40242	1µF 20% 63V
2572	4822 122 31797	22nF 10% 63V
2573	4822 124 41678	22µF 20% 25V
2576	4822 122 31797	22nF 10% 63V
2577	4822 122 31797	22nF 10% 63V
2578	4822 122 33496	100nF 10% 63V
2579	4822 124 40435	10µF 20% 50V
2580	5322 122 31647	1nF 10% 63V
2582	4822 122 31772	47pF 5% 50V
2584	4822 122 31765	100pF 5% 50V
2585	4822 122 31765	100pF 5% 50V
2586	4822 122 31765	100pF 5% 50V
2587	4822 122 33496	100nF 10% 63V
2588	4822 122 33496	100nF 10% 63V
2589	4822 122 33496	100nF 10% 63V
2590	4822 124 40242	1µF 20% 63V
2591	5322 121 42661	330nF 5% 63V
2592	4822 122 31797	22nF 10% 63V
2593	4822 122 31797	22nF 10% 63V
2594	4822 122 31797	22nF 10% 63V
2602	4822 124 40272	33µF 20% 16V
2603	4822 122 32891	68nF 10% 63V
2611	4822 122 33496	100nF 10% 63V
2612	4822 122 32927	220nF
2613	5322 121 42661	330nF 5% 63V
2614	4822 122 33496	100nF 10% 63V
2615	4822 122 31981	33nF 0,5pF 50V
2616	4822 122 31981	33nF 0,5pF 50V
2617	4822 124 41525	100µF 20% 25V
2618	4822 122 33496	100nF 10% 63V
2622	4822 124 40201	1000µF 20% 16V
2624	4822 122 31797	22nF 10% 63V
2629	4822 122 31797	22nF 10% 63V
2630	4822 122 32927	220nF
2635	4822 122 31797	22nF 10% 63V
2636	4822 122 31797	22nF 10% 63V
2637	4822 122 32542	47nF 10% 63V
2642	4822 124 40272	33µF 20% 16V
2643	4822 122 32891	68nF 10% 63V
2646	4822 121 51252	470nF 5% 63V
2703	4822 122 31775	680pF 5% 50V
2704	4822 122 31797	22nF 10% 63V
2705	4822 124 40196	220µF 20% 16V
2722	4822 124 41678	22µF 20% 25V
2724	4822 124 41576	2,2µF 20% 50V
2727	4822 122 32142	270pF 5% 63V
2728	4822 122 33496	100nF 10% 63V
2730	4822 122 32442	10nF 50V
2731	4822 122 32541	27nF 10% 63V
2735	4822 122 33496	100nF 10% 63V
2740	5322 121 42661	330nF 5% 63V
2741	5322 121 42661	330nF 5% 63V
2748	4822 121 42937	2,7nF 50% 250V
2750	4822 122 33496	100nF 10% 63V
2751	4822 124 41678	22µF 20% 25V
2756	4822 122 32442	10nF 50V
2757	4822 124 40435	10µF 20% 50V
2804	4822 124 31644	2,2nF 10% 63V
2805	4822 122 32808	1,2nF 10% 63V
2807	4822 122 32542	47nF 10% 63V
2813	4822 124 42106	1500µF 20% 35V
2814	4822 124 42106	1500µF 20% 35V
2815	4822 124 41566	3,3µF 20% 50V
2901	4822 124 40435	10µF 20% 50V
2903	4822 124 41596	22µF 20% 50V
2904	4822 126 11958	2,2nF 10% 500V
2910	4822 121 51252	470nF 5% 63V
2915	4822 122 31644	2,2nF 10% 63V
2921	4822 121 42007	100nF 10% 100V
2922	4822 126 10472	1,5nF 10% 500V
2925	4822 122 50078	560pF 10% 2kV
2926	4822 121 70055	10nF 20% 2KV
2926	4822 121 70058	9,1nF 2% 2kV
2927	4822 121 43395	27nF 10% 250V
2930	4822 121 51563	560nF 5% 250V
2931	4822 121 51563	560nF 5% 250V
2932	4822 121 51528	470nF 5% 250V
2950	4822 124 40744	68µF 20% 40V
2951	4822 121 43822	270nF 5% 50V
2952	4822 122 31782	15nF 10% 50V
2952	4822 122 32566	3,9nF 10% 63V
2960	4822 124 40242	1µF 20% 63V
2961	4822 121 43396	120nF 5% 63V
2962	4822 124 40772	6,8µF 20% 100V
2970	4822 121 40516	22nF 10% 250V
2975	4822 122 40348	2,2nF 10% 1kV
2976	4822 124 40201	1000µF 20% 16V
2980	4822 126 11958	2,2nF 10% 500V
2981	4822 124 41886	1000µF 20% 35V

3101	4822 053 21475	2,2Ω 10% 5W
3101	4822 113 80555	0,68Ω 5% 5W
3101	4822 116 82776	2,2Ω 10% 5W
3106	4822 116 30344	NTC
3107	4822 116 40206	DUAL PTC
3108	4822 116 40135	30-1k 265V 25%
3108	4822 116 40223	18-3k 270V 25%
3136	4822 051 10243	24k 2% 0,25W
3137	4822 051 10243	24k 2% 0,25W
3138	4822 051 10243	24k 2% 0,25W
3139	4822 051 10243	24k 2% 0,25W
3140	4822 051 10512	5k1 2% 0,25W
3141	4822 051 10473	47k 2% 0,25W
3142	4822 051 10224	220k 2% 0,25W
3143	4822 051 10224	220k 2% 0,25W
3144	4822 051 10103	10k 2% 0,25W
3146	4822 051 10471	470Ω 2% 0,25W
3147	4822 051 10101	100Ω 2% 0,25W
3148	4822 051 10221	220Ω 2% 0,25W
3150	4822 050 22209	22Ω 5% 0,4W
3151	4822 053 11221	220Ω 5% 2W
3155	4822 113 80579	120Ω 10% 7W
3157	4822 111 91881	27Ω 5% 5W
3159	4822 053 21475	4M7 5% 0,5W
3159	4822 053 21825	4M7 5% 0,5W
3161	4822 051 10101	100Ω 2% 0,25W
3162	4822 051 10221	220Ω 2% 0,25W
3163	4822 116 52267	30k 5% 0,5W
3164	4822 051 10472	4k7 2% 0,25W
3165	4822 116 82151	470Ω 5% 0,25W
3166	4822 113 80474	2,2Ω 5% 5W
3167	4822 051 10391	390Ω 2% 0,25W
3168	4822 050 27503	75k 1% 0,6W
3170	4822 051 10332	3k3 2% 0,25W
3171	4822 051 10103	10k 2% 0,25W
3172	4822 100 11348	1k 30%LIN
3173	4822 051 10561	560Ω 2% 0,25W
3174	4822 052 11108	1Ω 5% 0,5W
3175	4822 051 10683	68k 2% 0,25W
3176	4822 051 10683	68k 2% 0,25W
3177	4822 050 26202	6k2 1% 0,6W
3178	4822 051 10134	130k 2% 0,25W
3179	4822 051 10683	68k 2% 0,25W
3180	4822 051 10102	1k 2% 0,25W
3181	4822 051 10683	68k 2% 0,25W
3182	4822 053 10221	220Ω 5% 1W
3183	4822 051 10221	220Ω 2% 0,25W
3184	4822 051 10101	100Ω 2% 0,25W
3185	4822 051 10103	10k 2% 0,25W
3186	4822 116 52183	18Ω 5% 0,5W
3187	4822 051 10241	240Ω 2% 0,25W
3188	4822 051 10102	1k 2% 0,25W
3189	4822 050 22212	2k21 1% 0,6W
3190	4822 051 10159	15Ω 2% 0,25W
3191	4822 051 10122	1k2 2% 0,25W
3192	4822 051 10151	150Ω 2% 0,25W
3193	4822 051 10102	1k 2% 0,25W
3194	4822 050 25601	560Ω 5% 0,25W
3195	4822 050 25601	560Ω 1% 0,6W
3196	4822 051 10101	100Ω 2% 0,25W
3197	4822 051 10682	6k8 2% 0,25W
3198	4822 051 10151	150Ω 2% 0,25W
3199	4822 051 10101	100Ω 2% 0,25W
3200	4822 051 10223	22k 2% 0,25W
3201	4822 051 10103	10k 2% 0,25W
3202	4822 051 10103	10k 2% 0,25W
3229	4822 116 52301	75k 5% 0,5W
3231	4822 116 52233	10k 5% 0,5W
3232	4822 050 11002	1k 1% 0,4W
3233	4822 051 10182	1k8 2% 0,25W
3234	4822 116 52233	10k 5% 0,5W
3237	4822 051 10103	10k 2% 0,25W
3238	4822 051 10682	6k8 2% 0,25W
3239	4822 051 10102	1k 2% 0,25W
3240	4822 051 10103	10k 2% 0,25W
3245	4822 051 10102	1k 2% 0,25W
3254	4822 051 10103	10k 2% 0,25W
3255	4822 116 52233	10k 5% 0,5W
3256	4822 051 10511	510Ω 2% 0,25W
3257	4822 051 10221	220Ω 2% 0,25W
3258	4822 116 52225	510Ω 5% 0,5W
3262	4822 051 10472	4k7 2% 0,25W
3263	4822 051 10303	30k 2% 0,25W
3264	4822 051 10123	12k 2% 0,25W
3267	4822 051 10104	100k 2% 0,25W
3268	4822 051 10103	10k 2% 0,25W
3269	4822 051 10472	4k7 2% 0,25W
3278	4822 051 10332	3k3 2% 0,25W
3279	4822 051 10202	2k 2% 0,25W
3290	4822 051 10182	1k8 2% 0,25W
3292	4822 051 10182	1k8 2% 0,25W
3294	4822 051 10182	1k8 2% 0,25W
3301	4822 052 10109	10Ω 5% 0,3W
3302	4822 053 11203	20k 5% 2W
3303	4822 116 52257	22k 5% 0,5W
3304	4822 116 52206	120Ω 5% 0,5W
3305	4822 116 52206	120Ω 5% 0,5W
3307	4822 051 10272	2k7 2% 0,25W
3308	4822 051 10103	10k 2% 0,25W
3314	4822 051 10223	22k 2% 0,25W
3316	4822 051 10332	3k3 2% 0,25W
3317	4822 051 10563	56k 2% 0,25W
3318	4822 051 10103	10k 2% 0,25W
3320	4822 116 90536	120Ω 1% 1/8W
3325	4822 100 11163	100k Lin
3326	4822 051 10683	68k 2% 0,25W

Mono carrier

3331	4822 052 11108	1Ω 5% 0,5W
3332	4822 051 10103	10k 2% 0,25W
3334	4822 051 10103	10k 2% 0,25W
3335	4822 051 10103	10k 2% 0,25W
3336	4822 051 10102	1k 2% 0,25W
3337	4822 051 10473	47k 2% 0,25W
3338	4822 051 10223	22k 2% 0,25W
3339	4822 051 10473	47k 2% 0,25W
3341	4822 051 10122	1k2 2% 0,25W
3342	4822 051 10331	330Ω 2% 0,25W
3343	4822 051 10331	330Ω 2% 0,25W
3344	4822 051 10131	130Ω 2% 0,25W
3345	4822 051 10301	300Ω 2% 0,25W
3346	4822 051 10103	10k 2% 0,25W
3347	4822 051 10392	3k9 2% 0,25W
3348	4822 051 10103	10k 2% 0,25W
3349	4822 051 20222	2k2 5% 0,1W
3351	4822 051 10391	390Ω 2% 0,25W
3352	4822 051 10561	560Ω 2% 0,25W
3401	4822 116 52226	560Ω 5% 0,5W
3403	4822 051 10561	560Ω 2% 0,25W
3405	4822 116 52226	560Ω 5% 0,5W
3407	4822 051 10561	560Ω 2% 0,25W
3410	4822 051 10759	75Ω 2% 0,25W
3411	4822 051 10759	75Ω 2% 0,25W
3427	4822 051 10682	6k8 2% 0,25W
3428	4822 051 10332	3k3 2% 0,25W
3429	4822 051 10471	470Ω 2% 0,25W
3430	4822 116 52201	75Ω 5% 0,5W
3432	4822 051 10682	6k8 2% 0,25W
3433	4822 051 10332	3k3 2% 0,25W
3434	4822 051 10471	470Ω 2% 0,25W
3435	4822 051 10759	75Ω 2% 0,25W
3437	4822 051 10682	6k8 2% 0,25W
3438	4822 051 10332	3k3 2% 0,25W
3439	4822 051 10471	470Ω 2% 0,25W
3440	4822 116 52201	75Ω 5% 0,5W
3441	4822 051 10472	4k7 2% 0,25W
3442	4822 051 20222	2k2 5% 0,1W
3450	4822 051 10103	10k 2% 0,25W
3451	4822 051 10223	22k 2% 0,25W
3452	4822 051 10104	100k 2% 0,25W
3455	4822 051 10102	1k 2% 0,25W
3456	4822 051 20222	2k2 5% 0,1W
3457	4822 051 10221	220Ω 2% 0,25W
3458	4822 116 52201	75Ω 5% 0,5W
3459	4822 051 10759	75Ω 2% 0,25W
3491	4822 051 10102	1k 2% 0,25W
3492	4822 116 52225	510Ω 5% 0,5W
3500	4822 051 10113	11k 2% 0,25W
3500	4822 051 10821	820Ω 2% 0,25W
3501	4822 051 10621	620Ω 2% 0,25W
3502	4822 051 10103	10k 2% 0,25W
3503	4822 051 10621	620Ω 2% 0,25W
3504	4822 051 10101	100Ω 2% 0,25W
3505	4822 051 10152	1k5 2% 0,25W
3507	4822 051 10103	10k 2% 0,25W
3509	4822 051 10103	10k 2% 0,25W
3511	4822 051 10182	1k8 2% 0,25W
3512	4822 051 10103	10k 2% 0,25W
3513	4822 116 52234	100k 5% 0,5W
3522	4822 051 10103	10k 2% 0,25W
3524	4822 051 10332	3k3 2% 0,25W
3526	4822 051 10103	10k 2% 0,25W
3527	4822 051 10332	3k3 2% 0,25W
3528	4822 051 10182	1k8 2% 0,25W
3530	4822 052 11278	2Ω7 5% 0,5W
3531	4822 051 10271	270Ω 2% 0,25W
3536	4822 100 11348	1k 30%LIN
3540	4822 116 52226	560Ω 5% 0,5W
3541	4822 051 10102	1k 2% 0,25W
3542	4822 051 10103	10k 2% 0,25W
3543	4822 051 10103	10k 2% 0,25W
3544	4822 051 10105	1M 5% 0,25W
3548	4822 051 10102	1k 2% 0,25W
3551	4822 116 52293	6k 2 5% 0,5W
3552	4822 051 10102	1k 2% 0,25W
3555	4822 116 52215	220Ω 5% 0,5W
3556	4822 051 10751	750Ω 2% 0,25W
3557	4822 051 10331	330Ω 2% 0,25W
3558	4822 051 10151	150Ω 2% 0,25W
3559	4822 051 10681	680Ω 2% 0,25W
3565	4822 116 90536	120Ω 1% 1/8W
3566	4822 116 90536	120Ω 1% 1/8W
3567	4822 052 10159	15Ω 5% 0,3W
3569	4822 116 52283	4k 7 5% 0,5W
3570	4822 052 10478	4,7Ω 5% 0,5W
3571	4822 051 10431	430Ω 2% 0,25W
3574	4822 116 90536	120Ω 1% 1/8W
3575	4822 116 90536	120Ω 1% 1/8W
3576	4822 051 10472	4k7 2% 0,25W
3577	4822 051 10473	47k 2% 0,25W
3578	4822 051 10473	47k 2% 0,25W
3580	4822 051 10562	5k6 2% 0,25W
3581	4822 051 10101	100Ω 2% 0,25W
3582	4822 051 10202	2k 2% 0,25W
3584	4822 051 10101	100Ω 2% 0,25W
3585	4822 051 10101	100Ω 2% 0,25W
3586	4822 051 10101	100Ω 2% 0,25W
3587	4822 051 10103	10k 2% 0,25W
3591	4822 051 10122	1k2 2% 0,25W
3592	4822 051 10471	470Ω 2% 0,25W
3593	4822 051 10471	470Ω 2% 0,25W
3594	4822 051 10471	470Ω 2% 0,25W
3600	4822 051 10562	5k6 2% 0,25W
3601	4822 116 52199	68Ω 5% 0,5W
3602	4822 051 10689	68Ω 2% 0,25W
3603	4822 116 52207	1k 2 5% 0,5W
3604	5322 111 41103	1M81 5% 0,5W
3605	4822 051 10621	620Ω 2% 0,25W
3616	4822 051 10301	300Ω 2% 0,25W
3617	4822 051 10301	300Ω 2% 0,25W
3618	4822 111 90368	680k 2% 0,125W
3622	4822 052 10479	47Ω 5% 0,3W
3624	4822 052 10828	8,2Ω 5% 0,3W
3629	4822 052 10828	8,2Ω 5% 0,3W
3640	4822 051 10562	5k6 2% 0,25W
3641	4822 051 10689	68Ω 2% 0,25W
3642	4822 051 10689	68Ω 2% 0,25W
3643	4822 051 10122	1k2 2% 0,25W
3644	4822 051 10185	1M 8 5% 0,25W
3645	4822 051 10621	620Ω 2% 0,25W
3646	4822 051 10759	75Ω 2% 0,25W
3702	4822 116 52263	2k 7 5% 0,5W
3705	4822 052 10478	4,7Ω 5% 0,3W
3707	4822 051 10153	15k 2% 0,25W
3710	4822 051 10153	15k 2% 0,25W
3711	4822 051 10474	470k 2% 0,25W
3712	4822 051 10103	10k 2% 0,25W
3713	4822 051 10103	10k 2% 0,25W
3714	4822 051 10223	22k 2% 0,25W
3715	4822 051 10104	100k 2% 0,25W
3716	4822 051 10104	100k 2% 0,25W
3718	4822 051 10103	10k 2% 0,25W
3719	4822 051 10334	330k 2% 0,25W
3722	4822 051 10829	82Ω 2% 0,25W
3723	4822 051 10682	6k8 2% 0,25W
3727	4822 116 52263	2k 7 5% 0,5W
3728	4822 116 52238	12k 5% 0,5W
3729	4822 051 10272	2k7 2% 0,25W
3730	4822 051 10102	1k 2% 0,25W
3731	4822 116 52256	2k 2 5% 0,5W
3732	4822 051 10103	10k 2% 0,25W
3734	4822 051 10565	5M 6 5% 0,25W
3735	4822 051 10101	100Ω 2% 0,25W
3735	4822 051 10395	3M 9 5% 0,25W
3736	4822 051 10104	100k 2% 0,25W
3737	4822 100 20166	10k Lin
3738	4822 051 10104	100k 2% 0,25W
3739	4822 101 21154	200k 25%
3740	4822 051 10184	180k 2% 0,25W
3741	4822 051 10134	130k 2% 0,25W
3748	4822 051 10303	30k 2% 0,25W
3749	4822 100 20166	10k Lin
3750	4822 051 10102	1k 2% 0,25W
3754	4822 051 10181	180Ω 2% 0,25W
3755	4822 051 10472	4k7 2% 0,25W
3756	4822 051 10102	1k 2% 0,25W
3757	4822 051 10472	4k7 2% 0,25W
3758	4822 053 11561	560Ω 5% 2W
3801	4822 113 80473	8k2 5% 5W
3802	4822 051 10689	68Ω 2% 0,25W
3803	4822 050 21508	1Ω5 1% 0,6W
3804	4822 051 10102	1k 2% 0,25W
3807	4822 051 10151	150Ω 2% 0,25W
3810	4822 116 52276	3k 9 5% 0,5W
3811	4822 050 21502	1k5 1% 0,6W
3814	4822 051 10204	200k 2% 0,25W
3815	4822 051 10133	13k 2% 0,25W
3817	4822 051 10158	1Ω5 5% 0,25W
3817	4822 051 10308	3Ω 5% 0,25W
3818	4822 051 10158	1Ω5 5% 0,25W
3818	4822 051 10308	3Ω 5% 0,25W
3821	4822 051 10158	1Ω5 5% 0,25W
3822	4822 051 10158	1Ω5 5% 0,25W
3823	4822 051 10108	1Ω 5% 0,25W
3901	4822 052 11159	15Ω 5% 0,5W
3904	4822 052 11159	15Ω 5% 0,5W
3910	4822 051 10104	100k 2% 0,25W
3911	4822 051 10474	470k 2% 0,25W
3912	4822 051 10103	10k 2% 0,25W
3915	4822 052 11471	470Ω 5% 0,5W
3920	4822 116 52186	22Ω 5% 0,5W
3921	4822 112 41123	3k9 5% 5,8W
3921	4822 116 83537	3k9 10% 7W
3922	4822 050 23302	3k3 1% 0,6W
3925	4822 051 10399	39Ω 2% 0,25W
3948	4822 051 10124	120k 2% 0,25W
3949	4822 116 52243	1k 5 5% 0,5W
3950	4822 051 10272	2k7 2% 0,25W
3950	4822 051 10332	3k3 2% 0,25W
3951	4822 051 10102	1k 2% 0,25W
3951	4822 051 10511	510Ω 2% 0,25W
3952	4822 051 10184	180k 2% 0,25W
3952	4822 051 10334	330k 2% 0,25W
3953	4822 051 10105	1M 5% 0,25W
3954	4822 051 10102	1k 2% 0,25W
3955	4822 051 10104	100k 2% 0,25W
3956	4822 100 20589	20k Lin
3957	4822 051 10102	1k 2% 0,25W
3958	4822 051 10102	1k 2% 0,25W
3959	4822 051 10104	100k 2% 0,25W
3960	4822 051 10103	10k 2% 0,25W
3962	4822 051 20222	2k2 5% 0,1W
3963	4822 051 10102	1k 2% 0,25W
3964	4822 051 10102	1k 2% 0,25W
3965	4822 051 10102	1k 2% 0,25W
3970	4822 050 22203	22k 1% 0,6W
3975	4822 052 11108	1Ω 5% 0,5W
3976	4822 052 11108	1Ω 5% 0,5W

Mono carrier

3980	4822 052 11228	2,2Ω 5% 0,5W
3981	4822 052 11228	2,2Ω 5% 0,5W
3990	4822 051 10333	33k 2% 0,25W
3990	4822 116 52257	22k 5% 0,5W
4xxx	4822 051 10008	0Ω 5% 0,25W

5000	4822 157 60536	0,34µH
5006	4822 157 52286	22µH
5010	4822 157 60171	ferite bead
5105	4822 158 30224	CU20D3
5105	4822 212 23611	CU20D3
5150	4822 157 51216	5,6µH
5156	4822 157 63707	ferite bead
5161	4822 148 80946	CE 465
5168	4822 157 52505	33µH
5169	4822 157 53202	choke
5170	4822 157 62769	2,5µH
5258	4822 157 52287	39µH
5316	4822 157 60528	0,43µH
5317	4822 157 62324	0,82µH
5335	4822 156 21445	0,24µH
5336	4822 156 21446	0,2µH
5344	4822 157 62767	8,2µH
5345	4822 157 63722	5,6µH
5503	4822 156 20819	9µH
5536	4822 156 21148	7,6µH
5553	4822 156 21026	34 µH
5558	4822 157 62852	12µH
5559	4822 157 62852	12µH
5901	4822 140 10382	L.O.T.
5915	4822 157 52505	33µH
5921	4822 148 80943	CU20
5930	4822 157 52472	1,04mH
5933	4822 158 10728	TRANSF.ASSY
5964	4822 157 62769	2,5µH
5975	5322 157 52539	15µH

6109	4822 130 81766	BYD14K
6110	4822 130 81766	BYD14K
6111	4822 130 80432	BY627
6111	4822 130 81766	BYD14K
6112	4822 130 81766	BYD14K
6131	4822 130 81766	BYD14K
6132	4822 130 81766	BYD14K
6140	4822 130 80446	LL4148
6141	4822 130 80446	LL4148
6143	4822 130 80446	LL4148
6144	4822 130 80446	LL4148
6150	4822 130 42488	BYD33D
6151	4822 130 32904	BZV85-C5V6
6154	4822 130 42488	BYD33D
6155	4822 130 42488	BYD33D
6156	4822 130 42488	BYD33D
6161	4822 130 82831	ERC20M-06
6163	4822 130 20215	SF0R5J43
6164	4822 130 80446	LL4148
6173	4822 130 34167	BZX79-F6V2
6174	4822 130 82831	ERC20M-06
6175	4822 130 82194	BZV55-B6V2
6176	4822 130 42488	BYD33D
6180	4822 130 42488	BYD33D
6181	4822 130 42488	BYD33D
6183	4822 130 82192	LLZ-C8V2
6184	4822 130 80905	LLZ-F5V1
6185	4822 130 80883	LLZ-C4V7
6186	4822 130 42488	BYD33D
6188	4822 130 80446	LL4148
6189	4822 130 82195	BZV55-B18
6190	4822 130 80446	LL4148
6192	4822 130 80446	LL4148
6196	4822 130 81227	LLZ-F5V6
6197	4822 130 80887	LLZ-C36
6201	4822 130 80446	LL4148
6202	4822 130 80446	LL4148
6204	4822 130 80446	LL4148
6232	4822 130 80446	LL4148
6233	4822 130 30621	1N4148
6234	4822 130 30621	1N4148
6236	4822 130 80446	LL4148
6256	4822 130 80446	LL4148
6257	4822 209 72895	TLUV5300
6290	4822 130 80446	LL4148
6292	4822 130 80446	LL4148
6294	4822 130 80446	LL4148
6296	4822 130 80446	LL4148
6302	4822 130 82037	HZT33
6316	4822 130 81765	BA683
6345	4822 130 30621	1N4148
6401	4822 130 34233	BZX79-C5V1
6403	4822 130 34233	BZX79-C5V1
6404	4822 130 31253	BZX79-C2V4
6405	4822 130 34233	BZX79-C5V1
6407	4822 130 34233	BZX79-C5V1
6410	4822 130 34233	BZX79-C5V1
6411	4822 130 34233	BZX79-C5V1
6412	4822 130 34233	BZX79-C5V1
6413	4822 130 34233	BZX79-C5V1
6424	4822 130 34233	BZX79-C5V1
6425	4822 130 34233	BZX79-C5V1
6428	4822 130 80446	LL4148
6430	4822 130 30621	1N4148
6431	4822 130 30621	1N4148
6432	4822 130 30621	1N4148
6433	4822 130 80446	LL4148
6438	4822 130 80446	LL4148
6452	4822 130 34197	BZX79-C12
6458	4822 130 34233	BZX79-C5V1
6491	4822 130 30621	1N4148
6492	4822 130 80446	LL4148
6509	4822 130 80446	LL4148
6510	4822 130 80446	LL4148
6515	4822 130 80446	LL4148
6520	4822 130 80446	LL4148
6540	4822 130 80954	LLZ-C5V6
6569	4822 130 80906	LLZ-C7V5
6571	4822 130 82882	LLZ-F8V2
6575	4822 130 80446	LL4148
6576	4822 130 80446	LL4148
6580	4822 130 42489	BYD33G
6610	4822 130 31981	BZX79-C3V9
6611	4822 130 80446	LL4148
6645	4822 130 34233	BZX79-C5V1
6646	4822 130 34233	BZX79-C5V1
6705	4822 130 80446	LL4148
6757	4822 130 81223	LLZ-C2V4
6758	4822 130 31966	BZV85-C12
6801	4822 130 42488	BYD33D
6802	4822 130 81141	BZV55-C43
6803	4822 130 80446	LL4148
6804	4822 130 80446	LL4148
6901	4822 130 42488	BYD33D
6903	4822 130 42488	BYD33D
6904	4822 130 42606	BYD33J
6910	4822 130 81141	BZV55-C43
6926	4822 130 41275	BY228
6927	4822 130 32058	BYW95B
6948	4822 130 81144	LLZ-C30
6950	4822 130 80446	LL4148
6951	4822 130 80446	LL4148
6963	4822 130 80446	LL4148
6964	4822 130 81764	BZV55-C51
6975	4822 130 80914	BYD74B
6980	4822 130 42488	BYD33D

7000	4822 209 81878	TDA2545A
7140	5322 130 42136	BC848C
7143	4822 130 82034	CNX83A
7146	4822 130 42513	BC858C
7147	5322 130 44647	BC368
7156	4822 130 60851	2SC3973B
7165	4822 130 61207	BC848
7173	5322 130 42136	BC848C
7175	4822 130 61923	BF821
7182	5322 130 44647	BC368
7183	4822 130 61207	BC848
7184	5322 130 42012	BC858
7185	5322 130 42012	BC858
7188	5322 130 42756	BC857C
7193	5322 130 42755	BC847C
7196	4822 130 61207	BC848
7197	5322 130 42012	BC858
7200	4822 209 30977	TMP47C1237N
7232	4822 130 61207	BC848
7233	4822 130 61207	BC848
7264	4822 130 61207	BC848
7268	4822 130 61207	BC848
7278	4822 209 62098	X2402
7325	4822 209 72746	TDA8341/N6
7343	5322 130 42012	BC858
7344	5322 130 42012	BC858
7345	5322 130 42012	BC858
7346	5322 130 42012	BC858
7347	4822 130 61207	BC848
7348	4822 130 61207	BC848
7350	4822 130 61207	BC848
7355	4822 209 83119	TDA5850
7427	4822 130 61207	BC848
7432	4822 130 61207	BC848
7437	4822 130 61207	BC848
7442	4822 209 73852	PMBT2369
7450	4822 130 61207	BC848
7455	4822 130 61207	BC848
7501	4822 130 61207	BC848
7502	4822 130 61207	BC848
7503	4822 130 61207	BC848
7511	4822 130 61207	BC848
7512	4822 130 61207	BC848
7520	4822 209 30011	TDA4650/N3
7521	4822 209 30389	TDA4510/N3
7530	4822 130 42133	BC817
7540	4822 209 63108	TDA4660/N2
7550	4822 209 63994	TDA4670/N1
7552	4822 130 61207	BC848
7555	5322 130 42136	BC848C
7570	4822 209 63298	TDA4680/N1
7571	4822 130 60775	2SD1266P
7600	5322 130 42136	BC848C
7602	4822 130 42513	BC858C
7603	5322 130 41981	BC848A
7610	4822 209 61882	L78S24CV
7613	5322 130 41981	BC848A
7615	4822 209 73311	TDA1521Q/N4
7640	5322 130 42136	BC848C
7642	4822 130 42513	BC858C
7643	5322 130 41981	BC848A

: 2% 0,25W
: 2 5% 0,5W
)k 2% 0,25W
M 6 5% 0,25W
)0Ω 2% 0,25W
M 9 5% 0,25W
)0k 2% 0,25W
)k Lin
)0k 2% 0,25W
)0k 25%
)0k 2% 0,25W
)0k 2% 0,25W
)k 2% 0,25W
)k Lin
2% 0,25W
:0Ω 2% 0,25W
7 2% 0,25W
2% 0,25W
7 2% 0,25W
0Ω 5% 2W
2 5% 5W
Ω 2% 0,25W
:5 1% 0,6W
2% 0,25W
0Ω 2% 0,25W
9 5% 0,5W
5 1% 0,6W
0k 2% 0,25W
k 2% 0,25W
5 5% 0,25W
5% 0,25W
5 5% 0,25W
5 5% 0,25W
5% 0,25W
Ω 5% 0,5W
Ω 5% 0,5W
)k 2% 0,25W
)k 2% 0,25W
< 2% 0,25W
)Ω 5% 0,5W
Ω 5% 0,5W
) 5% 5,8W
) 10% 7W
) 1% 0,6W
Ω 2% 0,25W
)k 2% 0,25W
5 5% 0,5W
' 2% 0,25W
) 2% 0,25W
2% 0,25W
)Ω 2% 0,25W
)k 2% 0,25W
)k 2% 0,25W
5% 0,25W
2% 0,25W
)k 2% 0,25W
: Lin
2% 0,25W
2% 0,25W
)k 2% 0,25W
: 2% 0,25W
5% 0,1W
2% 0,25W
2% 0,25W
2% 0,25W
1% 0,6W
5% 0,5W
5% 0,5W

Spare parts list

Mono carrier

3980	4822 052 11228	2,2Ω 5% 0,5W
3981	4822 052 11228	2,2Ω 5% 0,5W
3990	4822 051 10333	33k 2% 0,25W
3990	4822 116 52257	22k 5% 0,5W
4xxx	4822 051 10008	0Ω 5% 0,25W

5000	4822 157 60536	0,34µH
5006	4822 157 52286	22µH
5010	4822 157 60171	ferite bead
5105	4822 158 30224	CU20D3
5105	4822 212 23611	CU20D3
5150	4822 157 51216	5,6µH
5156	4822 157 63707	ferite bead
5161	4822 148 80946	CE 465
5168	4822 157 52505	33µH
5169	4822 157 53202	choke
5170	4822 157 62769	2,5µH
5258	4822 157 52287	39µH
5316	4822 157 60528	0,43µH
5317	4822 157 62324	0,82µH
5335	4822 156 21445	0,24µH
5336	4822 156 21446	0,2µH
5344	4822 157 62767	8,2µH
5345	4822 157 63722	5,6µH
5503	4822 156 20819	9µH
5536	4822 156 21148	7,6µH
5553	4822 156 21026	34 µH
5558	4822 157 62852	12µH
5559	4822 157 62852	12µH
5901	4822 140 10382	L.O.T.
5915	4822 157 52505	33µH
5921	4822 148 80943	CU20
5930	4822 157 52472	1,04mH
5933	4822 158 10728	TRANSF.ASSY
5964	4822 157 62769	2,5µH
5975	5322 157 52539	15µH

6109	4822 130 81766	BYD14K
6110	4822 130 81766	BYD14K
6111	4822 130 80432	BY627
6111	4822 130 81766	BYD14K
6112	4822 130 81766	BYD14K
6131	4822 130 81766	BYD14K
6132	4822 130 81766	BYD14K
6140	4822 130 80446	LL4148
6141	4822 130 80446	LL4148
6143	4822 130 80446	LL4148
6144	4822 130 80446	LL4148
6150	4822 130 42488	BYD33D
6151	4822 130 32904	BZV85-C5V6
6154	4822 130 42488	BYD33D
6155	4822 130 42488	BYD33D
6156	4822 130 42488	BYD33D
6161	4822 130 82831	ERC20M-06
6163	4822 130 20215	SF0R5J43
6164	4822 130 80446	LL4148
6173	4822 130 34167	BZX79-F6V2
6174	4822 130 82831	ERC20M-06
6175	4822 130 82194	BZV55-B6V2
6176	4822 130 42488	BYD33D
6180	4822 130 42488	BYD33D
6181	4822 130 42488	BYD33D
6183	4822 130 82192	LLZ-C8V2
6184	4822 130 80905	LLZ-F5V1
6185	4822 130 80883	LLZ-C4V7
6186	4822 130 42488	BYD33D
6188	4822 130 80446	LL4148
6189	4822 130 82195	BZV55-B18
6190	4822 130 80446	LL4148
6192	4822 130 80446	LL4148
6196	4822 130 81227	LLZ-F5V6
6197	4822 130 80887	LLZ-C36
6201	4822 130 80446	LL4148
6202	4822 130 80446	LL4148
6204	4822 130 80446	LL4148
6232	4822 130 80446	LL4148
6233	4822 130 30621	1N4148
6234	4822 130 30621	1N4148
6236	4822 130 80446	LL4148
6256	4822 130 80446	LL4148
6257	4822 209 72895	TLUV5300
6290	4822 130 80446	LL4148
6292	4822 130 80446	LL4148
6294	4822 130 80446	LL4148
6296	4822 130 80446	LL4148
6302	4822 130 82037	HZT33
6316	4822 130 81765	BA683
6345	4822 130 30621	1N4148
6401	4822 130 34233	BZX79-C5V1
6403	4822 130 34233	BZX79-C5V1
6404	4822 130 31253	BZX79-C2V4
6405	4822 130 34233	BZX79-C5V1
6407	4822 130 34233	BZX79-C5V1
6410	4822 130 34233	BZX79-C5V1
6411	4822 130 34233	BZX79-C5V1
6412	4822 130 34233	BZX79-C5V1
6413	4822 130 34233	BZX79-C5V1
6424	4822 130 34233	BZX79-C5V1
6425	4822 130 34233	BZX79-C5V1
6428	4822 130 80446	LL4148
6430	4822 130 30621	1N4148
6431	4822 130 30621	1N4148
6432	4822 130 30621	1N4148
6433	4822 130 80446	LL4148
6438	4822 130 80446	LL4148
6452	4822 130 34197	BZX79-C12
6458	4822 130 34233	BZX79-C5V1
6491	4822 130 30621	1N4148
6492	4822 130 80446	LL4148
6509	4822 130 80446	LL4148
6510	4822 130 80446	LL4148
6515	4822 130 80446	LL4148
6520	4822 130 80446	LL4148
6540	4822 130 80954	LLZ-C5V6
6569	4822 130 80906	LLZ-C7V5
6571	4822 130 82882	LLZ-F8V2
6575	4822 130 80446	LL4148
6576	4822 130 80446	LL4148
6580	4822 130 42489	BYD33G
6610	4822 130 31981	BZX79-C3V9
6611	4822 130 80446	LL4148
6645	4822 130 34233	BZX79-C5V1
6646	4822 130 34233	BZX79-C5V1
6705	4822 130 80446	LL4148
6757	4822 130 81223	LLZ-C2V4
6758	4822 130 31966	BZV85-C12
6801	4822 130 42488	BYD33D
6802	4822 130 81141	BZV55-C43
6803	4822 130 80446	LL4148
6804	4822 130 80446	LL4148
6901	4822 130 42488	BYD33D
6903	4822 130 42488	BYD33D
6904	4822 130 42606	BYD33J
6910	4822 130 81141	BZV55-C43
6926	4822 130 41275	BY228
6927	4822 130 32058	BYW95B
6948	4822 130 81144	LLZ-C30
6950	4822 130 80446	LL4148
6951	4822 130 80446	LL4148
6963	4822 130 80446	LL4148
6964	4822 130 81764	BZV55-C51
6975	4822 130 80914	BYD74B
6980	4822 130 42488	BYD33D

7000	4822 209 81878	TDA2545A
7140	5322 130 42136	BC848C
7143	4822 130 82034	CNX83A
7146	4822 130 42513	BC858C
7147	5322 130 44647	BC368
7156	4822 130 60851	2SC3973B
7165	4822 130 61207	BC848
7173	5322 130 42136	BC848C
7175	4822 130 61923	BF821
7182	5322 130 44647	BC368
7183	4822 130 61207	BC848
7184	5322 130 42012	BC858
7185	5322 130 42012	BC858
7188	5322 130 42756	BC857C
7193	5322 130 42755	BC847C
7196	4822 130 61207	BC848
7197	5322 130 42012	BC858
7200	4822 209 30977	TMP47C1237N
7232	4822 130 61207	BC848
7233	4822 130 61207	BC848
7264	4822 130 61207	BC848
7268	4822 130 61207	BC848
7278	4822 209 62098	X2402
7325	4822 209 72746	TDA8341/N6
7343	5322 130 42012	BC858
7344	5322 130 42012	BC858
7345	5322 130 42012	BC858
7346	5322 130 42012	BC858
7347	4822 130 61207	BC848
7348	4822 130 61207	BC848
7350	4822 130 61207	BC848
7355	4822 209 83119	TDA5850
7427	4822 130 61207	BC848
7432	4822 130 61207	BC848
7437	4822 130 61207	BC848
7442	4822 209 73852	PMBT2369
7450	4822 130 61207	BC848
7455	4822 130 61207	BC848
7501	4822 130 61207	BC848
7502	4822 130 61207	BC848
7503	4822 130 61207	BC848
7511	4822 130 61207	BC848
7512	4822 130 61207	BC848
7520	4822 209 30011	TDA4650/V3
7521	4822 209 30389	TDA4510/V6
7530	4822 130 42133	BC817
7540	4822 209 63108	TDA4660/V2
7550	4822 209 63994	TDA4670/V1
7552	4822 130 61207	BC848
7555	5322 130 42136	BC848C
7570	4822 209 63298	TDA4680/V4
7571	4822 130 60775	2SD1266P
7600	5322 130 42136	BC848C
7602	4822 130 42513	BC858C
7603	5322 130 41981	BC848A
7610	4822 209 61882	L78S24CV
7613	5322 130 41981	BC848A
7615	4822 209 73311	TDA1521Q/N4
7640	5322 130 42136	BC848C
7642	4822 130 42513	BC858C
7643	5322 130 41981	BC848A

Spare parts list

Mono carrier

7705	4822 209 63297	TDA2579B/N1
7710	4822 130 61207	BC848
7713	5322 130 42012	BC858
7719	4822 130 61207	BC848
7757	5322 130 42012	BC858
7801	4822 130 60775	2SD1266P
7804	4822 130 61236	BD234
7805	4822 130 44257	BC547
7911	4822 130 61233	BC857
7920	4822 130 42159	BF819
7925	4822 130 43921	2SD1577PV
7962	5322 130 60159	BC846B
7963	5322 130 60268	BD236

Surround sound module

	4822 264 40207	3p male wtb
	4822 267 31291	2p cinch
	4822 267 31442	ext. Loudsp.
	4822 267 50861	8p male wtb
	4822 404 31219	bracket

Various

1001	4822 071 51602	fuse 1,6A

2001	5322 121 42465	68nF 5% 63V
2002	5322 121 42465	68nF 5% 63V
2003	4822 121 43343	4,7nF 10% 400V
2004	4822 121 43179	18nF 5% 250V
2005	5322 124 41468	1000µF 20% 40V
2006	4822 124 40242	1µF 20% 63V
2007	4822 124 41577	4,7µF 20% 50V
2008	5322 121 42386	100nF 5% 63V
2009	5322 121 42386	100nF 5% 63V
2010	4822 124 41747	680µF 20%
2019	5322 121 42386	100nF 5% 63V
2622	4822 124 41577	4,7µF 20% 50V
2627	4822 124 41577	4,7µF 20% 50V

3001	4822 116 52298	680k 5% 0,5W
3002	4822 116 52249	1k8 5% 0,5W
3003	4822 116 52298	680k 5% 0,5W
3004	4822 116 52249	1k8 5% 0,5W
3005	4822 116 52283	4k7 5% 0,5W
3006	4822 052 10108	1Ω 5% 0,3W
3007	4822 116 52258	220k 5% 0,5W
3008	4822 116 52233	10k 5% 0,5W
3009	4822 116 52296	6k8 5% 0,5W
3010	4822 052 10338	3,3Ω 5% 0,3W

7001	4822 130 40948	BC548A
7002	4822 130 40948	BC548A
7003	4822 209 61758	TDA1013B/N1

AV module

	4822 264 40207	3p male wtb
	4822 265 30351	5p male wtb
	4822 265 40471	8p fem btb
	4822 265 40503	5p fem btb
	4822 267 50861	8p

2001	4822 124 40435	10µF 20% 50V
2002	4822 122 32142	270pF 5% 63V
2003	4822 124 40242	1µF 20% 63V
2004	4822 124 40242	1µF 20% 63V
2005	4822 122 32142	270pF 5% 63V
2006	4822 124 40242	1µF 20% 63V
2007	4822 124 40242	1µF 20% 63V
2008	4822 124 40242	1µF 20% 63V
2009	4822 122 32142	270pF 5% 63V
2010	4822 124 40242	1µF 20% 63V
2011	4822 124 40242	1µF 20% 63V
2012	4822 124 40242	1µF 20% 63V
2014	4822 122 33496	100nF 10% 63V
2016	4822 124 40242	1µF 20% 63V
2018	4822 124 40435	10µF 20% 50V
2020	4822 124 40435	10µF 20% 50V
2028	4822 122 32442	10nF 50V
2038	4822 122 32442	10nF 50V
2048	4822 122 32442	10nF 50V
2049	4822 122 32442	10nF 50V
2080	4822 124 40433	47µF 20% 25V

3001	4822 051 10472	4k7 2% 0,25W
3002	4822 051 10472	4k7 2% 0,25W
3004	4822 051 10561	560Ω 2% 0,25W
3005	4822 051 10104	100k 2% 0,25W
3006	4822 051 10104	100k 2% 0,25W
3007	4822 051 10561	560Ω 2% 0,25W
3008	4822 051 10473	47k 2% 0,25W
3009	4822 051 10104	100k 2% 0,25W
3010	4822 051 10104	100k 2% 0,25W
3011	4822 051 10561	560Ω 2% 0,25W
3012	4822 116 52284	47k 5% 0,5W
3013	4822 051 10103	10k 2% 0,25W
3014	4822 051 10103	10k 2% 0,25W
3015	4822 051 10103	10k 2% 0,25W
3016	4822 051 10103	10k 2% 0,25W
3017	4822 051 10103	10k 2% 0,25W
3018	4822 051 10103	10k 2% 0,25W
3019	4822 051 10104	100k 2% 0,25W
3020	4822 051 10104	100k 2% 0,25W
3021	4822 116 52233	10k 5% 0,5W
3022	4822 051 10103	10k 2% 0,25W
3023	4822 051 10103	10k 2% 0,25W
3024	4822 051 10103	10k 2% 0,25W
3025	4822 051 10333	33k 2% 0,25W
3026	4822 051 10472	4k7 2% 0,25W
3028	4822 051 10153	15k 2% 0,25W
3031	4822 051 10104	100k 2% 0,25W
3032	4822 051 10104	100k 2% 0,25W
3033	4822 051 20222	2k2 5% 0,1W
3034	4822 051 20222	2k2 5% 0,1W
3038	4822 051 10182	1k8 2% 0,25W
3043	4822 051 10101	100Ω 2% 0,25W
3045	4822 051 10271	270Ω 2% 0,25W
3046	4822 051 10101	100Ω 2% 0,25W
3080	4822 052 10109	10Ω 5% 0,3W
4xxx	4822 051 10008	0Ω 5% 0,25W

Spare parts list

AV module

7010	4822 209 10263	HEF4052BP
7012	4822 130 61207	BC848
7014	4822 130 61207	BC848
7016	4822 130 61207	BC848
7018	4822 130 61207	BC848
7022	4822 130 61207	BC848
7026	4822 130 61207	BC848
7032	5322 209 10576	HEF4053BP
7038	4822 130 61207	BC848
7040	5322 209 10576	HEF4053BP

CRT module

	4822 255 70247	CRT SOCKET
	4822 265 20366	1P MALE
	4822 265 30378	4P MALE
	4822 265 40822	7P MALE
2102	4822 122 31825	27pF 10% 50V
2111	4822 122 31775	680pF 5% 50V
2122	4822 122 31825	27pF 10% 50V
2131	4822 122 31775	680pF 5% 50V
2142	4822 122 31825	27pF 10% 50V
2151	4822 122 31775	680pF 5% 50V
2165	4822 124 40433	47µF 20% 25V
2178	4822 121 41689	100N 10% 250V
2179	4822 124 40433	47µF 20% 25V
2188	4822 121 41926	33N 10% 630V
3101	4822 051 10221	220Ω 2% 0,25W
3102	4822 051 10391	390Ω 2% 0,25W
3103	4822 051 10332	3k3 2% 0,25W
3108	4822 116 52252	180k 5% 0,5W
3109	4822 053 11153	15k 5% 2W
3111	4822 051 10151	150Ω 2% 0,25W
3113	4822 051 10331	330Ω 2% 0,25W
3115	4822 116 52217	270Ω 5% 0,5W
3116	4822 052 10102	1k 5% 0,3W
3117	4822 051 10823	82k 2% 0,25W
3118	4822 111 50518	1k5 10% 0,25W
3121	4822 100 20149	2K2 LIN 20%
3122	4822 051 10391	390Ω 2% 0,25W
3123	4822 051 10332	3k3 2% 0,25W
3128	4822 116 52252	180k 5% 0,5W
3129	4822 053 11153	15k 5% 2W
3131	4822 051 10151	150Ω 2% 0,25W
3133	4822 051 10331	330Ω 2% 0,25W
3135	4822 116 52217	270Ω 5% 0,5W
3136	4822 052 10102	1k 5% 0,3W
3137	4822 051 10108	1Ω 5% 0,25W
3138	4822 111 50518	1k5 10% 0,25W
3141	4822 100 20149	2k2 LIN 20%
3142	4822 051 10391	390Ω 2% 0,25W
3143	4822 051 10332	3k3 2% 0,25W
3148	4822 116 52252	180k 5% 0,5W
3149	4822 053 11153	15k 5% 2W
3151	4822 051 10151	150Ω 2% 0,25W
3153	4822 051 10331	330Ω 2% 0,25W
3155	4822 116 52217	270Ω 5% 0,5W
3156	4822 052 10102	1k 5% 0,3W
3157	4822 051 10108	1Ω 5% 0,25W
3158	4822 111 50518	1k5 10% 0,25W
3160	4822 051 10102	1k 2% 0,25W
3163	4822 051 10153	15k 2% 0,25W
3165	4822 051 10182	1k8 2% 0,25W
3166	4822 051 10103	10k 2% 0,25W
3167	4822 051 10432	4k3 2% 0,25W
3178	4822 052 10181	180Ω 5% 0,3W
3179	4822 052 10109	10Ω 5% 0,3W
3183	4822 052 10108	1Ω0 5% 0,3W
3183	4822 052 11108	1Ω 5% 0,5W
3185	4822 111 50518	1k5 10% 0,25W
3188	4822 111 50518	1k5 10% 0,25W
3333	4822 051 10333	33k 2% 0,25W
3333	4822 116 52257	22k 5% 0,5W
4133	4822 051 10008	0Ω 5% 0,25W
4134	4822 051 10008	0Ω 5% 0,25W
5182	4822 157 52392	27µH
5183	4822 157 52136	82µH
5182	4822 158 10551	27µH
5183	5322 157 52539	15µH
6115	4822 130 30842	BAV21
6134	4822 130 81512	LLZ-C6V2
6135	4822 130 30842	BAV21
6155	4822 130 30842	BAV21
6166	4822 130 82192	LLZ-C8V2
7110	4822 130 41782	BF422
7111	4822 130 61207	BC848
7115	4822 130 41782	BF422
7116	4822 130 41646	BF423
7130	4822 130 41782	BF422
7131	4822 130 61207	BC848
7135	4822 130 41782	BF422
7136	4822 130 41646	BF423
7150	4822 130 41782	BF422
7151	4822 130 61207	BC848
7155	4822 130 41782	BF422
7156	4822 130 41646	BF423
7160	5322 130 42012	BC858
7161	4822 130 61207	BC848

S-correction module

	4822 265 30796	4P
	4822 265 30935	5P
2940	4822 121 51593	180nF 250V
2941	4822 121 51593	180nF 250V
2942	4822 124 40756	1µF 20% 100V
3941	4822 052 11102	1k 5% 0,5W
3942	4822 116 52264	27k 5% 0,5W
5940	4822 157 52688	AT4042/92
6924	4822 130 42488	BYD33D
6925	4822 130 42488	BYD33D

Spare parts list

Black level module

	4822 265 40503	5P FEM BTB
2501	4822 124 40272	33µF 20% 16V
2502	4822 124 40242	1µF 20% 63V
2503	4822 124 41577	4,7µF 20% 50V
2505	4822 122 32482	22pF 5% 63V
2506	4822 122 31965	220pF 5% 63V
3501	4822 051 10104	100k 2% 0,25W
3502	4822 051 10102	1k 2% 0,25W
3503	4822 051 10103	10k 2% 0,25W
3505	4822 116 52207	1k 2 5% 0,5W
3506	4822 051 10272	2k7 2% 0,25W
3508	4822 051 10102	1k 2% 0,25W
3509	4822 051 10392	3k9 2% 0,25W
3510	4822 051 10102	1k 2% 0,25W
3511	4822 051 10103	10k 2% 0,25W
3512	4822 051 10103	10k 2% 0,25W
3513	4822 051 10182	1k8 2% 0,25W
3514	4822 051 10102	1k 2% 0,25W
3515	4822 051 10681	680Ω 2% 0,25W
3517	4822 051 10102	1k 2% 0,25W
3520	4822 051 10272	2k7 2% 0,25W
3521	4822 051 10272	2k7 2% 0,25W
3522	4822 051 10561	560Ω 2% 0,25W
3525	4822 051 10102	1k 2% 0,25W
5501	4822 157 52287	39µH
7501	4822 209 30711	CX20125.
7505	4822 130 61207	BC848
7509	5322 130 42012	BC858
7510	5322 130 42012	BC858
7513	5322 130 42012	BC858
7514	5322 130 42012	BC858

Nicam sound module

	4822 265 30351	5p MALE WTB

various

1031	4822 071 56301	FUSE 630MA
1070	4822 242 70714	SFT5,5MA
1071	4822 242 71713	SFE6,0MBF
1080	4822 242 70485	SFT5,74MA
1100	5322 242 72349	9,216 MHZ
1101	4822 242 72547	SFE5,5MBF
1107	4822 242 71725	SFE4,5MBF
1117	4822 242 71713	SFE6,0MBF
1120	4822 242 72057	SFE6,5MBF
1201	4822 242 70485	SFT5,74MA
1205	4822 242 72301	TH316BQM
1205	4822 242 72303	TH316BQM
1208	4822 242 70714	SFT5,5MA
1220	4822 242 72302	5,850 MHZ
1220	4822 242 72347	6,552 MHZ
1275	4822 242 72304	5,824 MHZ
2020	4822 124 21725	470µF 20% 16V
2021	4822 121 51252	470nF 5% 63V
2030	4822 122 33496	100nF 10% 63V
2031	4822 124 40198	470µF 20% 16V
2032	4822 124 41438	100µF 20% 16V
2033	4822 122 33496	100nF 10% 63V
2035	4822 124 41433	33µF 20% 16V
2040	4822 122 33496	100nF 10% 63V
2050	4822 122 31981	33nF 0,5pF 50V
2060	5322 122 31647	1nF 10% 63V
2065	4822 122 32507	6,8pF 5% 50V
2066	5322 122 31647	1nF 10% 63V
2067	4822 122 33496	100nF 10% 63V
2070	4822 122 33496	100nF 10% 63V
2071	4822 122 33205	12pF 10% 63V
2072	4822 122 31797	22nF 10% 63V
2073	4822 122 31797	22nF 10% 63V
2075	4822 121 43066	1nF 2% 400V
2080	4822 122 32482	22pF 5% 63V
2082	4822 122 31797	22nF 10% 63V
2083	4822 122 31797	22nF 10% 63V
2085	4822 121 51262	910pF 5% 400V
2100	4822 122 31825	27pF 10% 50V
2100	4822 122 33496	100nF 10% 63V
2105	4822 121 51252	470nF 5% 63V
2108	4822 121 43047	1µF 10% 63V
2109	4822 121 43047	1µF 10% 63V
2109	4822 122 31797	22nF 10% 63V
2110	4822 122 31797	22nF 10% 63V
2110	4822 122 31961	68pF 5% 63V
2112	4822 122 32542	47nF 10% 63V
2113	4822 124 41576	2,2µF 20% 50V
2114	5322 122 31648	12nF 10% 50V
2116	4822 124 41757	10µF 20% 16V
2120	4822 121 42408	220nF 5% 63V
2121	4822 121 43066	1nF 5% 250V
2121	4822 121 42008	470nF 10% 63V
2121	4822 121 31797	22nF 10% 63V
2123	4822 121 42008	470nF 10% 63V
2123	4822 124 22263	220µF 20% 25V
2125	4822 124 40435	10µF 20% 50V
2128	4822 122 32542	47nF 10% 63V
2129	4822 124 21443	2,2µF 20% 50V
2130	4822 122 31797	22nF 10% 63V
2132	4822 124 40433	47µF 20% 25V
2138	4822 122 32442	10nF 50V
2139	4822 122 32442	10nF 50V
2140	4822 121 43066	1nF 5% 250V
2140	4822 124 41433	33µF 20% 16V
2141	4822 121 42729	1,5nF 1% 250V
2141	4822 124 41433	33µF 20% 16V
2150	4822 122 33496	100nF 10% 63V
2151	4822 124 41643	100µF 20% 16V
2160	4822 121 51252	470nF 5% 63V
2162	4822 121 51252	470nF 5% 63V
2165	4822 124 41569	150µF 20% 16V
2170	4822 122 31981	33nF 0,5pF 50V
2171	4822 122 31981	33nF 0,5pF 50V
2172	4822 122 31916	5,6nF 10% 63V
2173	4822 122 31916	5,6nF 10% 63V
2175	4822 122 31782	15nF 10% 50V
2176	4822 121 42008	470nF 10% 63V
2177	4822 122 31782	15nF 10% 50V
2178	4822 121 51252	470nF 5% 63V
2200	4822 124 41433	33µF 20% 50V
2201	4822 122 32442	10nF 50V
2201	4822 122 32482	22pF 5% 63V
2202	4822 122 31971	10pF 10% 50V
2202	4822 124 41641	33µF 20% 16V
2203	4822 122 31797	22nF 10% 63V
2203	4822 122 32442	10nF 50V
2204	4822 122 31797	22nF 10% 63V
2205	4822 122 32765	820pF 10% 63V
2206	4822 121 43066	1nF 2% 400V
2206	4822 122 32442	10nF 50V
2208	4822 122 33205	12pF 10% 63V
2209	4822 122 31797	22nF 10% 63V
2210	4822 122 31797	22nF 10% 63V
2210	4822 124 41644	0,47µF 20% 50V
2211	4822 121 51262	0,47µF 20% 50V
2213	4822 122 33496	100nF 10% 63V
2214	4822 122 33496	100nF 10% 63V
2215	4822 122 33496	100nF 10% 63V
2216	4822 122 33205	12pF 10% 63V
2216	4822 124 40435	10µF 20% 50V
2217	4822 122 31774	56pF 5% 50V
2217	4822 124 40435	10µF 20% 50V
2218	4822 122 31769	18pF 5% 50V
2220	4822 121 42008	470nF 10% 63V
2220	4822 121 51252	470nF 5% 63V
2220	4822 125 50045	22pF 250V
2221	4822 121 42008	470nF 10% 63V
2221	4822 121 51252	470nF 5% 63V
2230	4822 124 41644	0,47µF 20% 50V
2231	4822 122 31765	100pF 5% 50V
2231	4822 122 32442	10nF 50V
2232	4822 124 40272	33µF 20% 16V
2233	4822 124 22606	68µF 20% 16V
2234	4822 122 33479	820pF
2236	4822 122 33496	100nF 10% 63V
2237	4822 121 42936	39nF 1% 63V
2238	4822 124 40195	150µF 20% 16V
2239	4822 121 42936	39nF 1% 63V
2240	4822 122 32442	10nF 50V
2241	4822 122 32442	10nF 50V
2242	4822 122 33496	100nF 10% 63V
2243	4822 121 43523	56nF 10% 63V
2243	4822 122 33496	100nF 10% 63V
2245	4822 121 43523	56nF 10% 63V
2250	4822 122 31965	220pF 5% 63V
2251	4822 122 31965	220pF 5% 63V
2251	4822 122 32542	47nF 10% 63V
2252	4822 121 20238	82nF 10% 63V
2253	4822 124 41577	4,7µF 20% 50V
2254	4822 121 41934	22nF 10% 100V
2255	4822 121 41934	22nF 10% 100V
2259	4822 124 40435	10µF 20% 50V
2260	4822 122 33496	100nF 10% 63V

Nicam sound m

2260	4822 124 4	
2261	4822 122 3	
2263	4822 122 3	
2263	4822 122 3	
2264	4822 122 3	
2265	4822 122 3	
2266	4822 122 3	
2270	4822 124 4	
2271	4822 122 3	
2271	4822 122 3	
2272	4822 121 4	
2273	4822 122 3	
2274	4822 121 4	
2275	4822 122 3	
2276	4822 122 3	
2276	4822 122 3	
2277	4822 122 3	
2277	4822 124 4	
2280	4822 122 3	
2285	4822 122 3	
2286	4822 124 4	
2287	4822 122 3	
2288	4822 122 3	
2289	4822 122 3	
2290	4822 122 3	
2290	4822 122 3	
2291	4822 122	
2292	4822 122	
2293	4822 122	
2300	4822 122	
2310	4822 122 3	
2312	4822 122	
2315	4822 125 5	
2317	4822 122 3	
2318	4822 122 3	
2319	4822 122 3	
2325	4822 122	
2330	4822 124	
2331	4822 122 3	
2340	4822 122 3	
2341	4822 124	
2345	5322 122 3	
2350	4822 124 4	
2352	4822 122 3	
2353	4822 122 3	
2356	4822 122 3	
2357	4822 122 3	
2358	4822 122 3	
2359	4822 122 3	
2370	4822 122 3	
2371	4822 122 3	
2372	4822 122 3	
2373	4822 122 3	
2374	4822 122 3	
2375	4822 122 3	
2380	4822 121 5	
2381	4822 121 4	
3010	4822 116 5	
3011	4822 116 5	
3030	4822 051 1	
3035	4822 051 1	
3050	4822 052 1	
3060	4822 051 1	
3061	4822 116 5	
3062	4822 051 1	
3063	4822 116 5	
3064	4822 051 1	
3071	4822 051 1	

Black level module

	4822 265 40503	5P FEM BTB
Capacitors		
2501	4822 124 40272	33µF 20% 16V
2502	4822 124 40242	1µF 20% 63V
2503	4822 124 41577	4,7µF 20% 50V
2505	4822 122 32482	22pF 5% 63V
2506	4822 122 31965	220pF 5% 63V
Resistors		
3501	4822 051 10104	100k 2% 0,25W
3502	4822 051 10102	1k 2% 0,25W
3503	4822 051 10103	10k 2% 0,25W
3505	4822 116 52207	1k 2 5% 0,5W
3506	4822 051 10272	2k7 2% 0,25W
3508	4822 051 10102	1k 2% 0,25W
3509	4822 051 10392	3k9 2% 0,25W
3510	4822 051 10102	1k 2% 0,25W
3511	4822 051 10103	10k 2% 0,25W
3512	4822 051 10103	10k 2% 0,25W
3513	4822 051 10182	1k8 2% 0,25W
3514	4822 051 10102	1k 2% 0,25W
3515	4822 051 10681	680Ω 2% 0,25W
3517	4822 051 10102	1k 2% 0,25W
3520	4822 051 10272	2k7 2% 0,25W
3521	4822 051 10272	2k7 2% 0,25W
3522	4822 051 10561	560Ω 2% 0,25W
3525	4822 051 10102	1k 2% 0,25W
Coils		
5501	4822 157 52287	39µH
Semiconductors		
7501	4822 209 30711	CX20125.
7505	4822 130 61207	BC848
7509	5322 130 42012	BC858
7510	5322 130 42012	BC858
7513	5322 130 42012	BC858
7514	5322 130 42012	BC858

Nicam sound module

	4822 265 30351	5p MALE WTB
various		
1031	4822 071 56301	FUSE 630MA
1070	4822 242 70714	SFT5,5MA
1071	4822 242 71713	SFE6,0MBF
1080	4822 242 70485	SFT5,74MA
1100	5322 242 72349	9,216 MHZ
1101	4822 242 72547	SFE5,5MBF
1107	4822 242 71725	SFE4,5MBF
1117	4822 242 71713	SFE6,0MBF
1120	4822 242 72057	SFE6,5MBF
1201	4822 242 70485	SFT5,74MA
1205	4822 242 72301	TH316BOM
1205	4822 242 72303	TH316BQM
1208	4822 242 70714	SFT5,5MA
1220	4822 242 72302	5,850 MHZ
1220	4822 242 72347	6,552 MHZ
1275	4822 242 72304	5,824 MHZ
Capacitors		
2020	4822 124 21725	470µF 20% 16V
2021	4822 121 51252	470nF 5% 63V
2030	4822 122 33496	100nF 10% 63V
2031	4822 124 40198	470µF 20% 16V
2032	4822 124 41438	100µF 20% 16V
2033	4822 122 33496	100nF 10% 63V
2035	4822 124 41433	33µF 20% 16V
2040	4822 122 33496	100nF 10% 63V
2050	4822 122 31981	33nF 0,5pF 50V
2060	5322 122 31647	1nF 10% 63V
2065	4822 122 32507	6,8pF 5% 50V
2066	5322 122 31647	1nF 10% 63V
2067	4822 122 33496	100nF 10% 63V
2070	4822 122 33496	100nF 10% 63V
2071	4822 122 33205	12pF 10% 63V
2072	4822 122 31797	22nF 10% 63V
2073	4822 122 31797	22nF 10% 63V
2075	4822 121 43066	1nF 2% 400V
2080	4822 122 32482	22pF 5% 63V
2082	4822 122 31797	22nF 10% 63V
2083	4822 122 31797	22nF 10% 63V
2085	4822 121 51262	910pF 5% 400V
2100	4822 122 31825	27pF 10% 50V
2100	4822 122 33496	100nF 10% 63V
2105	4822 121 51252	470nF 5% 63V
2108	4822 121 43047	1µF 10% 63V
2109	4822 121 43047	1µF 10% 63V
2109	4822 122 31797	22nF 10% 63V
2110	4822 122 31797	22nF 10% 63V
2110	4822 122 31961	68pF 5% 63V
2112	4822 122 32542	47nF 10% 63V
2113	4822 124 41576	2,2µF 20% 50V
2114	5322 122 31648	12nF 10% 50V
2116	4822 124 41757	10µF 20% 16V
2120	4822 121 42408	220nF 5% 63V
2121	4822 121 42008	470nF 10% 63V
2121	4822 121 31797	22nF 10% 63V
2123	4822 121 42008	470nF 10% 63V
2123	4822 124 22263	220µF 20% 25V
2125	4822 124 40435	10µF 20% 50V
2128	4822 122 32542	47nF 10% 63V
2129	4822 124 21443	2,2µF 20% 50V
2130	4822 122 31797	22nF 10% 63V
2132	4822 124 40433	47µF 20% 25V
2138	4822 122 32442	10nF 50V
2139	4822 122 32442	10nF 50V
2140	4822 121 43066	1nF 5% 250V
2140	4822 124 41433	33µF 20% 16V
2141	4822 121 42729	1,5nF 1% 250V
2141	4822 124 41433	33µF 20% 16V
2150	4822 122 33496	100nF 10% 63V
2151	4822 124 41643	100µF 20% 16V
2160	4822 121 51252	470nF 5% 63V
2162	4822 121 51252	470nF 5% 63V
2165	4822 124 41569	150µF 20% 16V
2170	4822 122 31981	33nF 0,5pF 50V
2171	4822 122 31981	33nF 0,5pF 50V
2172	4822 122 31916	5,6nF 10% 63V
2173	4822 122 31916	5,6nF 10% 63V
2175	4822 122 31782	15nF 10% 50V
2176	4822 121 42008	470nF 10% 63V
2177	4822 122 31782	15nF 10% 50V
2178	4822 121 51252	470nF 5% 63V
2200	4822 124 41433	33µF 20% 50V
2201	4822 122 32442	10nF 50V
2201	4822 122 32482	22pF 5% 63V
2202	4822 122 31971	10pF 10% 50V
2202	4822 124 41641	33µF 20% 16V
2203	4822 122 31797	22nF 10% 63V
2203	4822 122 32442	10nF 50V
2204	4822 122 31797	22nF 10% 63V
2205	4822 122 32765	820pF 10% 63V
2206	4822 121 43066	1nF 2% 400V
2206	4822 122 32442	10nF 50V
2208	4822 122 33205	12pF 10% 63V
2209	4822 122 31797	22nF 10% 63V
2210	4822 122 31797	22nF 10% 63V
2210	4822 124 41644	0,47µF 20% 50V
2211	4822 121 51262	0,47µF 20% 50V
2213	4822 122 33496	100nF 10% 63V
2214	4822 122 33496	100nF 10% 63V
2215	4822 122 33496	100nF 10% 63V
2216	4822 122 33205	12pF 10% 63V
2216	4822 124 40435	10µF 20% 50V
2217	4822 122 31774	56pF 5% 50V
2217	4822 124 40435	10µF 20% 50V
2218	4822 122 31769	18pF 5% 50V
2220	4822 121 42008	470nF 10% 63V
2220	4822 121 51252	470nF 5% 63V
2220	4822 125 50045	22pF 250V
2221	4822 121 42008	470nF 10% 63V
2221	4822 121 51252	470nF 5% 63V
2230	4822 124 41644	0,47µF 20% 50V
2231	4822 122 31765	100pF 5% 50V
2231	4822 122 32442	10nF 50V
2232	4822 124 40272	33µF 20% 16V
2233	4822 124 22606	68µF 20% 16V
2234	4822 122 33479	820pF
2236	4822 122 33496	100nF 10% 63V
2237	4822 121 42936	39nF 1% 63V
2238	4822 124 40195	150µF 20% 16V
2239	4822 121 42936	39nF 1% 63V
2240	4822 122 32442	10nF 50V
2241	4822 122 32442	10nF 50V
2242	4822 122 33496	100nF 10% 63V
2243	4822 121 43523	56nF 10% 63V
2243	4822 122 33496	100nF 10% 63V
2245	4822 121 43523	56nF 10% 63V
2250	4822 122 31965	220pF 5% 63V
2251	4822 122 31965	220pF 5% 63V
2251	4822 122 32542	47nF 10% 63V
2252	4822 121 20238	82nF 10% 63V
2253	4822 124 41577	4,7µF 20% 50V
2254	4822 121 41934	22nF 10% 100V
2255	4822 121 41934	22nF 10% 100V
2259	4822 124 40435	10µF 20% 50V
2260	4822 122 33496	100nF 10% 63V

Nicam sound module

2260	4822 124 40435	10µF 20% 50V
2261	4822 122 33496	100nF 10% 63V
2263	4822 122 32442	10nF 50V
2263	4822 122 33496	100nF 10% 63V
2264	4822 122 32891	68nF 10% 63V
2265	4822 122 33496	100nF 10% 63V
2266	4822 122 32891	68nF 10% 63V
2270	4822 124 41644	0,47µF 20% 50V
2271	4822 122 31797	22nF 10% 63V
2271	4822 122 32442	10nF 50V
2272	4822 121 42008	470nF 10% 63V
2273	4822 122 31797	22nF 10% 63V
2274	4822 121 42008	470nF 10% 63V
2275	4822 122 31774	56pF 5% 50V
2276	4822 122 32444	33pF 5% 50V
2276	4822 122 33496	100nF 10% 63V
2277	4822 122 31769	18pF 5% 50V
2277	4822 124 40198	470µF 20% 16V
2280	4822 122 32504	15pF 5% 50V
2285	4822 122 32442	10nF 50V
2286	4822 124 40195	150µF 20% 16V
2287	4822 122 32856	8,2nF 10% 63V
2288	4822 122 32856	8,2nF 10% 63V
2289	4822 122 31782	15nF 10% 50V
2290	4822 122 31782	15nF 10% 50V
2290	4822 122 32504	15pF 5% 50V
2291	4822 122 32504	15pF 5% 50V
2292	4822 122 31981	33nF 0,5pF 50V
2293	4822 122 31981	33nF 0,5pF 50V
2300	4822 122 33496	100nF 10% 63V
2310	4822 122 33496	100nF 10% 63V
2312	4822 122 31772	47pF 5% 50V
2315	4822 125 50045	22p 250V
2317	4822 122 32442	10nF 50V
2318	4822 122 31972	39pF 5% 50V
2319	4822 122 32442	10nF 50V
2325	4822 122 31961	68pF 5% 63V
2330	4822 124 41506	47µF 20% 16V
2331	4822 122 31797	22nF 10% 63V
2340	4822 122 33496	100nF 10% 63V
2341	4822 124 41506	47µF 20% 16V
2345	5322 122 31647	1nF 10% 63V
2350	4822 124 41506	47µF 20% 16V
2352	4822 122 31797	22nF 10% 63V
2353	4822 122 31797	22nF 10% 63V
2356	4822 122 31981	33nF 0,5pF 50V
2357	4822 122 31981	33nF 0,5pF 50V
2358	4822 122 31782	15nF 10% 50V
2359	4822 122 31782	15nF 10% 50V
2370	4822 122 32999	2,2N 5%
2371	4822 122 32999	2,2N 5%
2372	4822 122 33498	2,7nF 10% 63V
2373	4822 122 33498	2,7nF 10% 63V
2374	4822 122 31773	560pF 5% 50V
2375	4822 122 31773	560pF 5% 50V
2380	4822 121 51252	470nF 5% 63V
2381	4822 121 42008	470nF 10% 63V
Resistors		
3010	4822 116 52219	330Ω 5% 0,5W
3011	4822 116 52219	330Ω 5% 0,5W
3030	4822 051 10471	470Ω 2% 0,25W
3035	4822 051 10331	330Ω 2% 0,25W
3050	4822 052 10688	6,8Ω 5% 0,3W
3060	4822 051 10103	10k 2% 0,25W
3061	4822 116 52279	4k 3 5% 0,5W
3062	4822 051 10271	270Ω 2% 0,25W
3063	4822 116 52217	270Ω 5% 0,5W
3064	4822 051 10471	470Ω 2% 0,25W
3071	4822 051 10102	1k 2% 0,25W
3075	4822 051 10152	1k5 2% 0,25W
3080	4822 051 10102	1k 2% 0,25W
3085	4822 051 10152	1k5 2% 0,25W
3100	4822 051 10122	1k2 2% 0,25W
3100	4822 052 10108	1Ω 5% 0,3W
3101	4822 051 10271	270Ω 2% 0,25W
3102	4822 051 10181	180Ω 2% 0,25W
3105	4822 051 10332	3k3 2% 0,25W
3105	4822 100 20166	10k Lin
3106	4822 051 10682	6k8 2% 0,25W
3107	4822 051 10103	10k 2% 0,25W
3107	4822 051 10122	1k2 2% 0,25W
3107	4822 051 10822	8k2 2% 0,25W
3108	4822 051 10181	180Ω 2% 0,25W
3108	4822 051 10562	5k6 2% 0,25W
3109	4822 051 10472	4k7 2% 0,25W
3110	4822 051 10103	10k 2% 0,25W
3111	4822 051 10123	12k 2% 0,25W
3112	4822 051 10102	1k 2% 0,25W
3112	4822 051 10331	330Ω 2% 0,25W
3113	4822 051 10821	820Ω 2% 0,25W
3114	4822 051 10274	270k 2% 0,25W
3115	4822 051 10332	3k3 2% 0,25W
3116	4822 051 10562	5k6 2% 0,25W
3117	4822 051 10122	1k2 2% 0,25W
3117	4822 051 10562	5k6 2% 0,25W
3118	4822 051 10104	100k 2% 0,25W
3118	4822 051 10181	180Ω 2% 0,25W
3120	4822 051 10181	180Ω 2% 0,25W
3120	4822 051 10822	8k2 2% 0,25W
3121	4822 051 10122	1k2 2% 0,25W
3121	4822 051 10472	4k7 2% 0,25W
3122	4822 051 10102	1k 2% 0,25W
3122	4822 100 11368	2k Lin
3123	4822 116 52224	470Ω 5% 0,5W
3124	4822 116 52224	470Ω 5% 0,5W
3125	4822 051 10472	4k7 2% 0,25W
3126	4822 051 10102	1k 2% 0,25W
3127	4822 116 81682	2M2 5% 0,5W
3128	4822 051 10393	39k 2% 0,25W
3130	4822 051 10223	22k 2% 0,25W
3132	4822 116 52257	22k 5% 0,5W
3133	4822 051 10102	1k 2% 0,25W
3133	4822 051 20183	18k 5% 0,1W
3134	4822 051 10202	2k 2% 0,25W
3134	4822 051 10224	220k 2% 0,25W
3135	4822 051 10102	1k 2% 0,25W
3136	4822 051 10102	1k 2% 0,25W
3136	4822 051 10224	220k 2% 0,25W
3138	4822 051 10273	27k 2% 0,25W
3138	4822 051 20222	2k2 5% 0,1W
3139	4822 051 10152	1k5 2% 0,25W
3140	4822 051 10563	56k 2% 0,25W
3141	4822 051 10563	56k 2% 0,25W
3150	4822 051 10202	2k 2% 0,25W
3151	4822 051 10392	3k9 2% 0,25W
3152	4822 116 52219	330Ω 5% 0,5W
3153	4822 116 52219	330Ω 5% 0,5W
3165	4822 051 10478	4Ω7 5% 0,25W
3170	4822 051 10471	470Ω 2% 0,25W
3171	4822 051 10471	470Ω 2% 0,25W
3172	4822 051 10471	470Ω 2% 0,25W
3173	4822 051 10471	470Ω 2% 0,25W
3182	4822 051 10008	0Ω 5% 0,25W
3201	4822 051 10102	1k 2% 0,25W
3202	4822 051 10332	3k3 2% 0,25W
3202	4822 052 10109	10Ω 5% 0,3W
3205	4822 116 52224	470Ω 5% 0,5W
3206	4822 051 10152	1k5 2% 0,25W
3206	4822 051 10471	470Ω 2% 0,25W
3208	4822 051 10102	1k 2% 0,25W
3210	4822 051 10154	150k 2% 0,25W
3211	4822 051 10152	1k5 2% 0,25W
3211	4822 051 10224	220k 2% 0,25W
3216	4822 051 10511	510Ω 2% 0,25W
3218	4822 051 10102	1k 2% 0,25W
3220	4822 051 10122	1k2 2% 0,25W
3221	4822 051 10103	10k 2% 0,25W
3222	4822 051 10822	8k2 2% 0,25W
3230	4822 051 10393	39k 2% 0,25W
3231	4822 051 10829	82Ω 2% 0,25W
3232	4822 051 10563	56k 2% 0,25W
3233	4822 051 10333	33k 2% 0,25W
3237	4822 051 10132	1k3 2% 0,25W
3238	4822 051 10472	4k7 2% 0,25W
3239	4822 051 10132	1k3 2% 0,25W
3240	4822 100 20166	10k 30% Lin
3241	4822 051 10473	47k 2% 0,25W
3243	4822 051 10561	560Ω 2% 0,25W
3244	4822 101 10927	470Ω 30% Lin
3245	4822 051 10824	820k 2% 0,25W
3246	4822 051 10273	27k 2% 0,25W
3247	4822 051 20183	18k 5% 0,1W
3248	4822 051 10103	10k 2% 0,25W
3251	4822 051 10683	68k 2% 0,25W
3254	4822 051 10333	33k 2% 0,25W
3255	4822 051 10105	1M 5% 0,25W
3256	4822 051 10561	560Ω 2% 0,25W
3257	4822 101 10927	470Ω 30% Lin
3259	4822 051 10563	56k 2% 0,25W
3260	4822 051 10563	56k 2% 0,25W
3269	4822 051 20222	2k2 5% 0,1W
3270	4822 051 10393	39k 2% 0,25W
3275	4822 051 10471	470Ω 2% 0,25W
3276	4822 051 10102	1k 2% 0,25W
3277	4822 052 10688	6,8Ω 5% 0,3W
3280	4822 051 10331	330Ω 2% 0,25W
3283	4822 051 10331	330Ω 2% 0,25W
3284	4822 051 10331	330Ω 2% 0,25W
3286	4822 051 10472	4k7 2% 0,25W
3296	4822 051 10471	470Ω 2% 0,25W
3297	4822 051 10471	470Ω 2% 0,25W
3298	4822 051 10471	470Ω 2% 0,25W
3299	4822 051 10471	470Ω 2% 0,25W
3310	4822 051 10102	1k 2% 0,25W
3312	4822 051 10103	10k 2% 0,25W
3331	4822 051 10104	100k 2% 0,25W
3332	4822 051 10104	100k 2% 0,25W
3333	4822 051 10473	47k 2% 0,25W
3335	4822 051 10392	3k9 2% 0,25W
3336	4822 051 10392	3k9 2% 0,25W
3345	4822 051 10682	6k8 2% 0,25W
3350	4822 052 10109	10Ω 5% 0,3W
3356	4822 051 10122	1k2 2% 0,25W
3357	4822 051 10122	1k2 2% 0,25W
3358	4822 051 10682	6k8 2% 0,25W
3359	4822 051 10682	6k8 2% 0,25W
3366	4822 051 10472	4k7 2% 0,25W
3367	4822 051 10472	4k7 2% 0,25W
3370	4822 051 10472	4k7 2% 0,25W
3371	4822 051 10472	4k7 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W
Coils		
5031	4822 157 51157	3,3µH
5040	4822 157 53575	3,3µH
5075	4822 157 52511	0,83µH
5085	4822 157 52511	0,83µH
5140	4822 156 21451	12,5µH

Spare parts list

Nicam sound module

5200	4822 157 62665	3,3µH
5206	4822 157 52511	0,83µH
5211	4822 157 52511	0,83µH
5233	4822 157 52512	10600,0 µH
5250	4822 157 51238	820µH
5251	4822 157 51238	820µH
5300	4822 157 53202	Choke
5317	4822 157 53575	3,3µH
5325	4822 152 20677	10µH
5330	4822 157 62665	3,3µH
5340	4822 157 62665	3,3µH
6030	4822 130 80954	BZV55-C5V6
6031	4822 130 80446	LL4148
6035	4822 130 81027	LLZ-C11
6105	4822 130 80446	LL4148
6106	4822 130 80446	LL4148
6114	4822 130 80954	LLZ-C5V6
6115	4822 130 80446	LL4148
6116	4822 130 80446	LL4148
6121	4822 130 81288	LLZ-C12
6126	4822 130 80446	LL4148
6134	5322 130 80119	BBY40
6135	5322 130 80119	BBY40
6136	5322 130 80119	BBY40
6150	4822 130 80446	LL4148
6269	4822 130 80446	LL4148
6312	5322 130 34953	BB405B
7030	5322 130 41983	BC858B
7031	4822 130 60775	2SD1266P
7035	4822 130 61207	BC848
7040	5322 209 10883	PCF8574P
7060	5322 130 42136	BC848C
7065	4822 130 60514	BC859B
7070	4822 209 73756	U2829B
7100	4822 209 30764	TDA8415/V1
7110	4822 130 61207	BC848
7112	5322 130 42012	BC858
7112	4822 209 81118	TBA120U/V4
7114	4822 130 61207	BC848
7120	4822 130 61207	BC848
7121	4822 130 61207	BC848
7122	4822 130 61207	BC848
7129	4822 209 70672	LM358N
7150	4822 209 63734	TDA8425/V5
7200	4822 209 62227	TA8662N
7206	4822 209 73756	U2829B
7210	4822 130 61207	BC848
7211	4822 130 61207	BC848
7220	4822 130 61207	BC848
7231	5322 130 41983	BC858B
7236	4822 209 72371	TDA8405/V4
7248	4822 130 61207	BC848
7266	4822 209 63734	TDA8425/V5
7269	4822 130 61207	BC848
7300	4822 209 61114	CF70123
7330	4822 209 72545	SAA7220P/C
7333	4822 130 61207	BC848
7340	4822 209 73236	TDA1543/N2
7350	4822 209 83163	LM833N
7351	4822 209 83163	LM833N
7351	4822 209 83163	LM833N

Auto multi voltage module

	4822 265 30497	5P MALE WTB
2114	4822 124 41889	10µF 10% 400V
2115	4822 124 40198	470µF 20% 16V
2123	4822 122 32542	47nF 10% 63V
2125	4822 122 32542	47nF 10% 63V
2130	4822 124 41892	680µF 20% 400V
2133	4822 121 41677	10nF 10% 400V
2136	4822 124 40242	1µF 20% 63V
2137	4822 122 32769	2N2 10% 1kV
3113	4822 116 30344	NTC
3114	4822 116 52133	30k 5% 2,5W
3115	4822 116 51736	33k 5% 2,5W
3116	4822 051 10339	33Ω 2% 0,25W
3117	4822 116 52252	180k 5% 0,5W
3118	4822 116 52132	46k 4 1% 1W
3119	4822 116 82147	1,2Ω 10% 10W
3120	4822 116 52132	46k 4 1% 1W
3121	4822 051 20222	2k2 5% 0,1W
3122	4822 051 10223	22k 2% 0,25W
3123	4822 051 10271	270Ω 2% 0,25W
3125	4822 051 20222	2k2 5% 0,1W
3126	4822 050 28204	820k 1% 0,6W
3131	4822 050 26804	680k 1% 0,6W
3133	4822 050 11002	1k 5% 0,5W
3134	4822 052 10339	33Ω 5% 0,3W
3136	4822 050 11002	1k 5% 0,5W
6115	4822 130 81513	LLZ-C6V8
6117	4822 130 81766	BYD14K
6118	4822 130 81766	BYD14K
6119	4822 130 81766	BYD14K
6120	4822 130 81766	BYD14K
6122	4822 130 80887	LLZ-C36
6134	4822 130 20215	SF0R5J43
6135	4822 130 34174	BZX79-C4V7
6306	5322 130 24081	BT151-650R
7116	4822 130 61207	BC848
7123	5322 130 42012	BC858
7126	4822 130 61207	BC848

TXT module

	4822 265 40469	6P FEM
	4822 265 40471	8P FEM

Various

1801	4822 242 73552	13,875 000 MHz
1802	4822 242 71508	6,00 MHz
2793	4822 122 32542	47nF 10% 63V
2794	4822 122 31769	18pF 5% 50V
2795	4822 122 31769	18pF 5% 50V
2796	4822 122 31769	18pF 5% 50V
2797	4822 122 31769	18pF 5% 50V
2800	4822 124 40178	100µF 20% 10V
2801	4822 122 32442	10nF 50V
2802	4822 122 31972	39pF 5% 50V
2803	4822 122 31972	39pF 5% 50V
2804	4822 122 31766	120pF 5% 50V
2805	4822 122 31766	120pF 5% 50V
2810	4822 122 33496	100nF 10% 63V
2811	4822 122 33496	100nF 10% 63V
2812	4822 122 33496	100nF 10% 63V
2813	4822 122 32442	10nF 50V
2814	4822 122 31773	560pF 5% 50V
2815	4822 122 33496	100nF 10% 63V
2816	4822 122 31825	27pF 10% 50V
2817	4822 122 32504	15pF 5% 50V
2818	5322 122 31647	1nF 10% 63V
2819	4822 122 31727	470pF 5% 63V
2820	4822 122 31797	22nF 10% 63V
2821	4822 122 32142	270pF 5% 63V
2822	4822 122 31765	100pF 5% 50V
2823	4822 122 31965	220pF 5% 63V
2824	4822 122 32891	68nF 10% 63V
2825	4822 124 41525	100µF 20% 25V
2826	4822 122 32504	15pF 5% 50V
2827	4822 122 32542	47nF 10% 63V
2828	4822 122 32542	47nF 10% 63V
2829	4822 124 41506	47µF 20% 16V
2830	4822 122 32542	47nF 10% 63V
2833	4822 124 41576	2,2µF 20% 50V
2845	4822 124 40178	100µF 20% 10V
2846	4822 124 41554	220µF 20% 10V
2849	4822 124 21212	15µF 20% 40V
3795	4822 051 10392	3k9 2% 0,25W
3796	4822 116 90536	120Ω 1% 1/8W
3797	4822 116 52176	10Ω 5% 0,5W
3798	4822 116 90536	120Ω 1% 1/8W
3800	4822 051 10103	10k 2% 0,25W
3801	4822 051 10105	1M 5% 0,25W
3802	4822 051 10101	100Ω 2% 0,25W
3803	4822 051 10101	100Ω 2% 0,25W
3804	4822 051 10101	100Ω 2% 0,25W
3805	4822 051 10122	1k2 2% 0,25W
3807	4822 051 10622	6k2 2% 0,25W
3808	4822 051 10103	10k 2% 0,25W
3809	4822 051 10132	1k3 2% 0,25W
3810	4822 051 10333	33k 2% 0,25W
3811	4822 051 10223	22k 2% 0,25W
3812	4822 051 10332	3k3 2% 0,25W
3813	4822 051 10361	360Ω 2% 0,25W
3814	4822 050 11002	1k0 1% 0,4W
3815	4822 051 10152	1k5 2% 0,25W
3816	4822 051 10683	68k 2% 0,25W
3817	4822 051 10122	1k2 2% 0,25W
3818	4822 051 10122	1k2 2% 0,25W
3819	4822 051 10122	1k2 2% 0,25W

TXT module

3820	4822 051 10122	1k2 2% 0,25W
3821	4822 051 10122	1k2 2% 0,25W
3822	4822 051 10122	1k2 2% 0,25W
3823	4822 051 10122	1k2 2% 0,25W
3824	4822 051 10332	3k3 2% 0,25W
3825	4822 051 10332	3k3 2% 0,25W
3826	4822 052 10159	15Ω 5% 0,33W
3827	4822 051 10332	3k3 2% 0,25W
3828	4822 051 10829	82Ω 2% 0,25W
3839	4822 051 10122	1k2 2% 0,25W
3840	4822 051 10122	1k2 2% 0,25W
3841	4822 051 10122	1k2 2% 0,25W
3842	4822 051 10122	1k2 2% 0,25W
3843	4822 051 10122	1k2 2% 0,25W
3845	4822 052 10689	68Ω 5% 0,33W
3846	4822 052 10689	68Ω 5% 0,33W
3847	4822 051 10829	82Ω 2% 0,25W
3848	4822 051 10181	180Ω 2% 0,25W
3849	4822 051 10102	1k 2% 0,25W
3850	4822 051 20222	2k2 5% 0,1W
3852	4822 051 20222	2k2 5% 0,1W
3999	4822 051 10182	1k8 2% 0,25W
3999	4822 051 20222	2k2 5% 0,1W
3999	4822 051 10392	3k9 2% 0,25W
4xxx	jumper	
5800	4822 156 20966	47µH 10%
5801	4822 157 52849	22µH 10%
5803	4822 157 52825	60µH
5814	4822 157 53608	10µH 10%
5816	4822 157 52224	15µH 10%
5847	4822 157 51157	3,3µH 10%
6809	4822 130 80446	LL4148
6810	4822 130 80446	LL4148
6811	4822 130 80446	LL4148
6812	4822 130 80446	LL4148
6813	4822 130 81512	LLZ-C6V2
6814	4822 130 80446	LL4148
6847	4822 130 42489	BYD33G
6848	4822 130 80905	LLZ-F5V1
7800	4822 209 62479	MAB8461p/w196
7800	4822 209 30281	PCF84C81A/097
7800	4822 209 30279	PCF84C81A/096
7801	4822 130 61207	BC848
7802	4822 130 61207	BC848
7803	5322 130 41982	BC848B
7811	5322 130 41982	BC848B
7812	5322 130 60159	BC846B
7820	4822 209 73879	SAA5243P/E/M2
7820	4822 209 63974	SAA5243P/H
7820	4822 209 63975	SAA5243P/T
7830	4822 209 63645	SAA5231/V6
7846	5322 130 44921	BD943
7849	5322 130 42012	BC858