

RTV servis Horvat

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Croatia

SSIS : CP - 330

MATIC DIAGRAM

- B/G

/SECAM - B/G, D/K
TSC - 3.58/4.43 (AV)

/SECAM - B/G, D/K
ECAM - L

- I

10.4 JUN . 1996

OTES :

OF RESISTANCE "OHM" IS OMITTED.
100 OHMS = 100000 OHMS)

TORS ARE 1/6 WATT UNLESS
NOTED.

ICE VALUES 1.0 AND ABOVE ARE IN pF
LOW ARE IN uF EXCEPT AS INDICATED.
00000 pF)

VALUES ARE IN uH EXCEPT AS INDICATED.

ARE 1N4148 EXCEPT AS INDICATED.

TRANSISTOR ARE KTC3198Y ALL PNP TRANSISTER
266Y EXCEPT AS INDICATED.

GE AND AC WAVEFORM MEASUREMENT CONDITIONS.
VOLTAGES IN EACH POINT ARE MEASURED
E STANDARD COLOUR BAR SIGNAL INPUT
HEL) AND ALL CONTROLS SET TO THE
POSITION.

PAGES WITH VTVM AND AC WAVEFORMS
LLOSCOPE)
NOMINAL LINE VOLTAGE : AC 230V 50HZ)

S SCHEMATIC DIAGRAM IS A STANDARD ONE
IT AND CIRCUIT CONSTANTS MAY BE SUBJECT TO
OR IMPROVEMENT WITHOUT ANY NOTICE.

TY CAUTION :

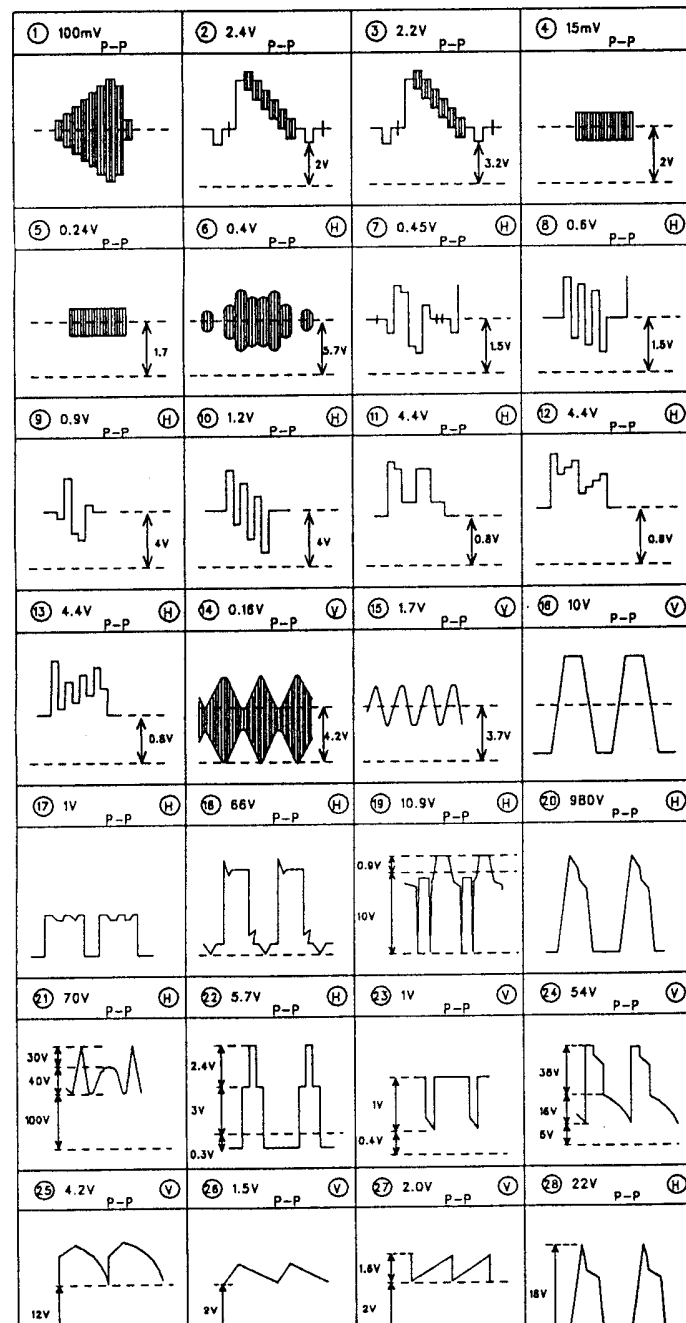
URING THIS CHASSIS IT IS IMPORTANT THAT
TECHNICIAN READ AND FOLLOW THE

WAVE FORMS

INPUT SIGNAL : PAL SYSTEM

VIDEO : 8 STEP COLOR BAR 87.5% AM

AUDIO : 1KHz SINE WAVE 60% FM



DIFFERENT PART FOR SYST

NO	LOC	P-B/G(FTZ) [TF]	P/S-B/G.D/K N-3/4 (AV) [TK]	P/S-B/G S-L/L' [VA]	P-I [TU]
1	VT101	TEKE-120A	←	VTSS-7SZ3	DT2-IV15P
2	SF101	G1968M	K2950M	G1968M	J1951M
3	Z701	TPS5.5MB	←	←	TPS6.0MB
4	Z702		TPS6.5MB		
5	Z801	SFE5.5MB	←	←	SFE6.0MB
6	Z802		SFE6.5MB		
7	I502		TDA8395	←	
8	I701	TDA8362B	←	TDA8362	TDA8362B
9	P801A	CW-4232	KKP-419C	CW-4232	CW-3222
10	C105	10u	←	33u	10u
11	C107	4.7u	←	←	
12	C108	0.01	←	←	
13	C109	4.7u	←	←	
14	C110	0.01	←	←	
15	C111	4.7u	←	←	18V 100u
16	C801	200V 0.47	200V 0.1	200V 0.47	←
17	C802	200V 0.47	200V 0.1	200V 0.47	←
18	JB01	JUMPER	←	OPEN	JUMPER
19	JB02	JUMPER	←	OPEN	JUMPER
20	JK01	JUMPER	OPEN	JUMPER	←
21	R108	18K	←	←	JUMPER
22	R110	OPEN	←	100K	8.2M
23	R113	470	←	220	470
24	R116	OPEN	←	100K	OPEN
25	R501	47K		47K	←
26	CA01		10u	←	
27	DA01		1N4148	←	
28	IA01		4053	←	
29	QA01		KTC3198Y	←	
30	QA02		KTA1266Y	←	
31	QA03		KTC3198Y	←	
32	RA01		47K	←	
33	RA02		10K	←	
34	RA03		10K	←	
35	RA04		22K	←	
36	RA05		10K	←	
37	RA06		47K	←	
38	RA07		1K	←	
39	RA08		1/4W1	←	
40	RA09		820K	←	
41	CU01				1000
42	CU02				1000
43	CU03				100
44	CU04				100
45	CL02			0.01	
46	CL03			33u 18V	
47	CL04			4.7u	
48	CL05			4.7u	
49	CL06			1u	
50	CL07			2200	
51	CL08			10	

NO	LOC	P.
67	QL04	
68	QL05	
69	QL06	
70	SL01	
71	RL01	
72	RL02	
73	RL03	
74	RL04	
75	RL05	
76	RL08	
77	RL07	
78	RL08	
79	RL09	
80	RL10	
81	RL11	
82	RL12	
83	RL13	
84	RL14	
85	RL15	
86	RL17	
87	RL24	
88	RL25	
89	RL26	
90	CN01	
91	CN02	
92	LN01	
93	QN01	
94	RN01	
95	RN02	
96	XN01	
97	DV04	
98	DV05	
99	DV08	
100	DV09	
101	DV12	
102	DV13	
103	QV03	
104	QV04	
105	RV29	
106	RV30	
107	DT05	
108	IT01	
109	IT02	
110	XT01	
111	F801C	
112	LA02	
113	W511	
114	W512A	
115	PA01A	
116	PA01B	
117	P805	
118	Q804	

NOTES :

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(100 OHMS = 100000 OHMS)

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LOW ARE IN uF EXCEPT AS INDICATED.
00000 pF)

VALUES ARE IN uH EXCEPT AS INDICATED.

ARE 1N4148 EXCEPT AS INDICATED.

TRANSISTOR ARE KTC3198Y ALL PNP TRANSISTOR
266Y EXCEPT AS INDICATED.

DC AND AC WAVEFORM MEASUREMENT CONDITIONS.
VOLTAGES IN EACH POINT ARE MEASURED
E STANDARD COLOUR BAR SIGNAL INPUT
(V) AND ALL CONTROLS SET TO THE
POSITION.

PAGES WITH VTVM AND AC WAVEFORMS
(OSCILLOSCOPE)

NOMINAL LINE VOLTAGE : AC 230V 50HZ)

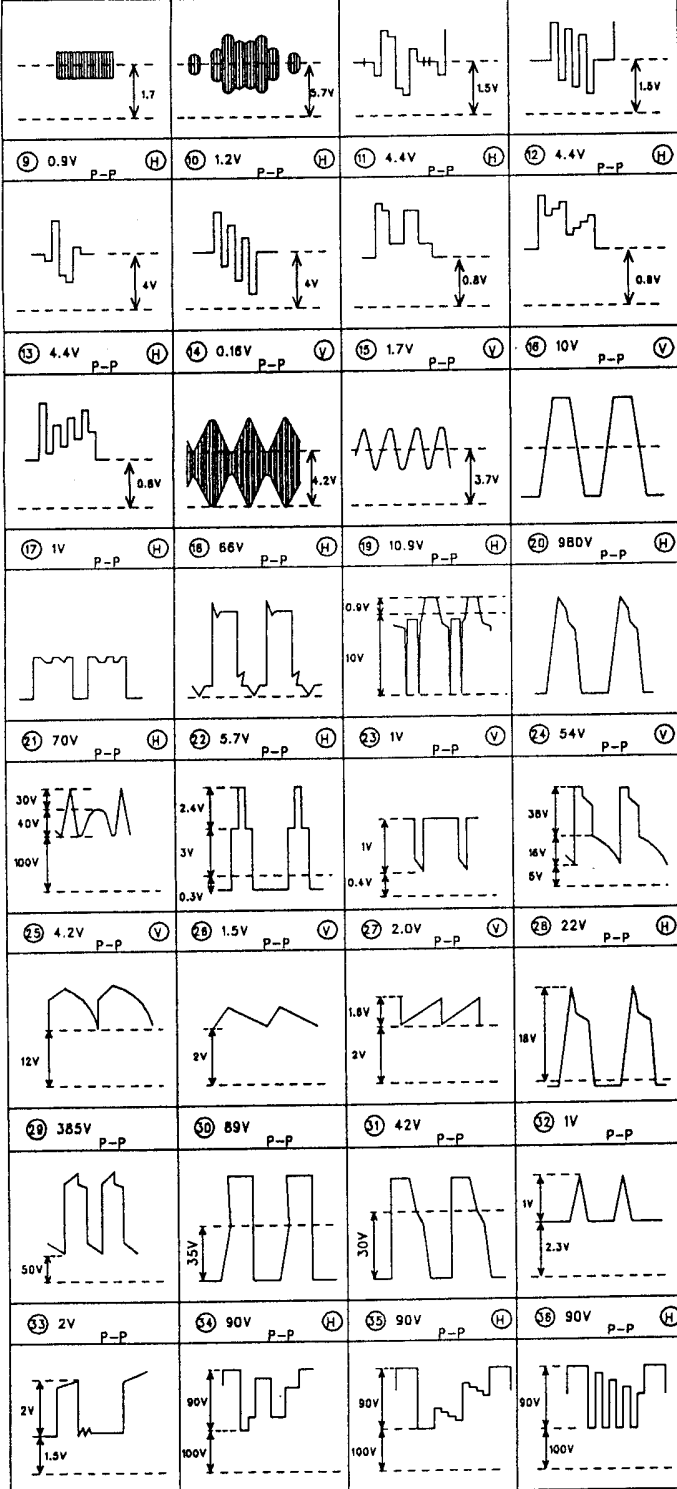
5 SCHEMATIC DIAGRAM IS A STANDARD ONE
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SAFETY CAUTION :

BEFORE WORKING ON THIS CHASSIS IT IS IMPORTANT THAT
TECHNICIAN READ AND FOLLOW THE
SAFETY PRECAUTION. "SAFETY PRECAUTIONS"
AT SAFETY NOTICE" IN THE SERVICE MANUAL.

IMPORTANT SAFETY NOTE :

COMPONENTS MARKED WITH A \triangle ARE IMPORTANT FOR MAINTAINING
ALIGNMENT OF THE SET AND SHOULD BE REPLACED ONLY
WITH IDENTICAL TO THOSE IN THE ORIGINAL OR
EQUIVALENT IN THE PARTS LIST.
ALWAYS MAINTAIN THE SAFETY OF THE SET THROUGH
PROPER SERVICING.



13	C109	4.7u			
14	C110	0.01			
15	C111	4.7u			18V 100u
16	C801	200V 0.47	200V 0.1	200V 0.47	
17	C802	200V 0.47	200V 0.1	200V 0.47	
18	J801	JUMPER		OPEN	JUMPER
19	J802	JUMPER		OPEN	JUMPER
20	JK01	JUMPER	OPEN	JUMPER	
21	R108	18K			JUMPER
22	R110	OPEN		100K	8.2M
23	R113	470		220	470
24	R116	OPEN		100K	OPEN
25	R501	47K		47K	
26	CA01		10u		
27	DA01		1N4148		
28	IA01		4053		
29	QA01		KTC3198Y		
30	QA02		KTA1286Y		
31	QA03		KTC3198Y		
32	RA01		47K		
33	RA02		10K		
34	RA03		10K		
35	RA04		22K		
36	RA05		10K		
37	RA06		47K		
38	RA07		1K		
39	RA08		1/4W1		
40	RA09		820K		
41	CU01				1000
42	CU02				1000
43	CU03				100
44	CU04				100
45	CL02			0.01	
46	CL03			33u 18V	
47	CL04			4.7u	
48	CL05			4.7u	
49	CL06			1u	
50	CL07			2200	
51	CL08			10	
52	CL09			T203R3008	
53	CL12			25V 10u	
54	DL01			1S2188	
55	DL02			1S2188	
56	DL03			1N4148	
57	DL04			1S2188	
58	DL05			1N4148	
59	DL06			1N4148	
60	DL08	1N4148			
61	IL01			TDA3843	
62	LL01			10uH	
63	LL02			10uH	
64	QL01			KTC3198Y	
65	QL02			KTC3198Y	
66	QL03			KTC3198Y	

79	RL09	
80	RL10	
81	RL11	
82	RL12	
83	RL13	
84	RL14	
85	RL15	
86	RL17	
87	RL24	
88	RL25	
89	RL28	
90	CN01	
91	CN02	
92	LN01	
93	QN01	
94	RN01	
95	RN02	
96	YN01	
97	DV04	
98	DV05	
99	DV08	
100	DV09	
101	DV12	
102	DV13	
103	QV03	
104	QV04	
105	RV29	
106	RV30	
107	DT05	
108	IT01	
109	IT02	
110	XT01	
111	F801C	
112	LA02	
113	W511	
114	W512A	
115	PA01A	
116	PA01B	
117	P805	
118	Q801L	
119	Z101	
120	Z102	

STEM (!)

DIFFERENT PART FOR SIZE

P-B/G(FTZ) [TF]	P/S-B/G/D/K N-3/4 (AV) [TK]	P/S-B/G 5-L/L' [VA]	P-I [TU]
		KTC319BY	
		KTC319BY	
		KTC319BY	
		L9481M	
		2.2K	
		10K	
		10K	
		10K	
		22K	
		68K	
		3K	
		1K	
		1K	
		4.7K	
		39K	
		100K	
		4.7K	
		22K	
		39K	
		4.7K	
		22K	
		43K	
		4.7K	
1	220		
2	1000		
1	100uH		
11	KTC319BY		
11	4.7K		
2	1K		
11	3.58MHz		
14	1N4148		
05	1N4148		
08			1N4148
09		1N4148	
12		1N4148	
13	1N4148	←	←
03	KTA126BY	←	←
04	KTA126BY	←	←
29	4.7K	←	←
30	4.7K	←	←
05	1N4148	←	1N4148
11	SAA5281PE	SAA5281PH	SAA5281PE
12	KA2188	←	KA2188
01	27MHz	←	27MHz
01C			FUSE COVER
02			CRT BS LABEL
11	SHIELD CASE		SHIELD CASE ←
12A	SHIELD PLATE		SHIELD PLATE ←
01A		CONN WAFER	←
01B		CONN AS	←
01B		TUNER GND AS	←

NO.	LOC.	14"					20"					21"		
		ORION		PHILIPS		POLKOLOR	ORION		SAMSUNG	POLKOLOR		ORION	PHILIPS	POLKOLOR
1	CRT	A34JLL90X		A34EAC01X		A33EFU13X	A48JLL90X		A48ECR11X	A48EEV33X01		A51JSW90X	A51EAL55X	A51EEV1
2	CRT SOCKET	ISM-01S		←		ISH-04S	ISM-03S		ISH-04S	←		ISM-03S	ISH-04S	←
3	D/COIL	DC-1450		←		←	DC-2050		←	←		DC-2070	←	←
4	T402	DCF2077D	1142.5037	FSA2400B5	1142.5034	1142.5025B	DCF-2217J	1142.5037	FSA-17013M	FSA26012M	1142.5056	DCF-2217L	FSA-17013M	←
5	C409	1.6KV 6000	←	1.6KV 6200	←	1.6KV 6000	1.6KV 6900	1.6KV 7500	1.6KV 8200	←	←	1.6KV 7500	1.6KV 8200	1.6KV 75
6	C410	2KV 470	←	2KV 680	←	2KV 220	2KV 470	-	2KV 1000	-	-	2KV 470	←	←
7	C411	200V 0.47u	200V 0.33u	200V 0.51u	←	←	200V 0.47u	200V 0.51u	200V 0.51u	←	←	200V 0.36u	200V 0.47u	←
8	L403	L-125	←	L-102	L-76	←	L-102	L-76	L-62	L-76	←	L-102	L-76	←
9	L405	AZ-9004Y	←	←	←	←	AZ-9004Y	←	JUMPER	←	←	AZ-9004Y	JUMPER	←
10	R308	2W 270	←	2W 180	←	←	2W 270	←	2W 180	←	←	2W 270	2W 180	←
11	R411	1/2W 160K	←	←	←	←	1/2W 110K	←	←	←	←	←	←	←
12	R421	1W 5.6 (F)	2W 2.4 (F)	1W 3.9 (F)	1W 2.0 (F)	1W 0.68(F)	1W 6.2 (F)	2W 2.4 (F)	2W 2.7 (F)	2W 2.4 (F)	1W 1.0 (F)	1W 6.2 (F)	1W 6.8 (F)	2W 2.4
13	R423	2W 56	←	←	←	←	2W 56	←	JUMPER	←	←	2W 56	JUMPER	←
14	R501	2W 9.1K	←	←	←	←	2W 12K	←	←	←	←	←	←	←
15	R511	2W 9.1K	←	←	←	←	2W 12K	←	←	←	←	←	←	←
16	R521	2W 9.1K	←	←	←	←	2W 12K	←	←	←	←	←	←	←
17	R525	220	←	120	←	←	220	←	120	←	←	220	120	←
18	RV09	2.2K	←	←	←	←	2.7K	←	←	←	←	←	←	←
19	RV17	11K	←	←	←	←	4.7K	←	←	←	←	2SD1555	←	←
20	Q402	KSD5072-TU	←	←	←	←	←	←	←	←	←	2SD1555	←	←
21	Q801	KSD5072-TU	←	←	←	←	←	←	←	←	←	YFW500-06	←	←
22	P401	YFW500-05	←	YFW500-06	←	←	YFW500-05	←	YFW500-06	←	←	YFW500-06	←	←
23	RB01	ECPAC 180W270	←	←	←	←	YFW500-05	←	←	←	←	J503P53D 140W290L	←	←

DIFFERENT PART FOR SMPS (OPTION)

NO.	LOC.	230V 50HZ	110-260V 50/60HZ
1	T801	TSM-4020	
2	C807	150u 400V	220u 400V
3	DF03	—	BYV95C
4	RF05	—	5.1K
5	DF04	—	ZPD12
6	CF01	—	1u 160V
7	DF01	—	KTC3207
8	DF05	—	ZPD1B
9	RF06	—	33K
10	R812	1/4W 15K	1/4W 13K
11	R814	1/4W 2.7K	

DIFFERENT PART FOR SPEAKER (OPTION)

NO.	LOC.	230V 50HZ	110-260V 50/60HZ
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		4.7K	
		39K	
		100K	
		4.7K	
		22K	
		39K	
		4.7K	
		22K	
		43K	
		4.7K	
1		220	
2		1000	
1		100uH	
1		KTC318BY	
1		47K	
2		1K	
1		3.58MHz	
14		1N4148	
35		1N4148	
08			1N4148
09			1N4148
12			1N4148
13	1N4148	←	←
03	KTA126BY	←	←
04	KTA126BY	←	←
29	4.7K	←	←
30	4.7K	←	←
05	1N4148	←	1N4148
11	SAA5281PE	SAA5281PH	SAA5281PE
12	KA2186	←	KA2186
01	27MHz	←	27MHz
01C			FUSE COVER
02			CRT BS LABEL
111	SHIELD CASE		SHIELD CASE ←
12A	SHIELD PLATE		SHIELD PLATE ←
101A		CONN WAFER	←
101B		CONN AS	←
305	TUNER GND AS		TUNER GND AS ←
801L			LABEL WARNING
101			40.4MHz TRAP
102			40.4MHz TRAP

14	R501	2W 9.1K	←	←	←	←	2W 12K	←	←	←	←	←	←	←
15	R511	2W 9.1K	←	←	←	←	2W 12K	←	←	←	←	←	←	←
16	R521	2W 9.1K	←	←	←	←	220	←	120	←	←	220	120	←
17	R525	220	←	120	←	←	220	←	120	←	←	←	←	←
18	RV09	2.2K	←	←	←	←	2.7K	←	←	←	←	←	←	←
19	RV17	11K	←	←	←	←	4.7K	←	←	←	←	2SD1555	←	←
20	Q402	KSD5072-TU	←	←	←	←	←	←	←	←	←	2SD1555	←	←
21	Q801	KSD5072-TU	←	←	←	←	←	←	←	←	←	YFW500-06	←	←
22	P401	YFW500-05	←	YFW500-06	←	←	YFW500-05	←	YFW500-06	←	←	YFW500-06	←	←
23	RB01	ECPAC 180M270	←	←	←	←	←	←	←	←	←	J503P53D 140M290L	←	←

DIFFERENT PART FOR SMPS (OPTION)

NO.	LOC.	230V 50HZ	110-260V 50/60Hz
1	TB01	TSM-4020	
2	C807	150u 400V	220u 400V
3	DF03	—	BYV95C
4	RF05	—	5.1K
5	DF04	—	ZPD12
6	CF01	—	1u 160V
7	QF01	—	KTC3207
8	DF05	—	ZPD18
9	RF06	—	33K
10	RB12	1/4W 15K	1/4W 13K
11	RB14	1/4W 2.7K	

DIFFERENT PART FOR SPEAKER (OPTION)

NO.		1SPK (2W)	2SPK(2W + 2W)
1	SPK	8 ohm	16 ohm
2	SPK	—	16 ohm
3	R820	15K	8.2K

CAPACITOR

ELECTRO	— —
CERAMIC	— —
CERAMIC CH	— — (CH)
TANTAL	— — (T)
ELECTRO NONPOLAR	— — (NP)
MYLAR	— — (M)

RESISTOR

CARBON FILM	—W—
M-OXIDE FILM	—W— (M)
CARBON COMP	—W— (CC)
FUSIBLE	—W— (F)
CEMENT	—W— (C)

COIL

PEAKING	—W—
CHOKE	—W— (C)
BEAD	—W— (B)