

SYMBOL	No	PCB	PART No	PART NAME	DESCRIPTION	MODELS
	R352	MAIN	103P378060	R-FUSE	1/4W 3.3-J	
	R353	MAIN	103P378060	R-FUSE	1/4W 3.3-J	
△	R3A11	AUD-PWR	103P378060	R-FUSE	1/4W 3.3-J	
△	R3A12	AUD-PWR	103P378060	R-FUSE	1/4W 3.3-J	
△	R3B01	AUD-PWR	103P378060	R-FUSE	1/4W 3.3-J	28
△	R3B02	AUD-PWR	103P378060	R-FUSE	1/4W 3.3-J	28
	R3D64	DOLBY	103P544000	R-NETWORK	1/8W 18K-J x4	
	R406	MAIN	103P397090	R-FUSE	1/2W 0.82-J	25
	R508	MAIN	102P243050	R-CEMENT-METAL-SUS	5W 6.8K-K/J	
	R511	MAIN	102P229010	R-CEMENT-WIRE-SUS	10W 8.2-K/J	
△	R512	MAIN	103P442020	R-FUSE-METAL	1W 560-K-OR-J	
△	R513	MAIN	103P398040	R-FUSE	1/2W 2.2-J	
△	R514	MAIN	103P397090	R-FUSE	1/2W 0.82-J	
△	R516	MAIN	103P397090	R-FUSE	1/2W 0.82-J	
△	R671	CRT	103P447080	R-FUSE-METAL	1W 0.68-K-OR-J	28
△	R671	CRT	103P448040	R-FUSE-METAL	1W 2.2-K-OR-J	25
△	R6B1	CRT	103P370010	R-FUSE	1/4W 10-J	28
△	R6B4	CRT	103P392050	R-FUSE	1/2W 1.0K-J	28
△	R6B6	CRT	103P370050	R-FUSE	1/4W 22-J	28
△	R6B7	CRT	103P370010	R-FUSE	1/4W 10-J	28
△	R6B8	CRT	103P392050	R-FUSE	1/2W 1.0K-J	28
	R921	MAIN	109D074010	R-CEMENT-METAL	5W 1.8K-K-OR-J	
△	R981	MAIN	109P913050	R-COMPOSITION	1/2W 6.8M-J	
△	R982	MAIN	109P913050	R-COMPOSITION	1/2W 6.8M-J	
	R991	PWR-SUB	102P087040	R-CEMENT-WIRE	10W 4.7-K	
CAPACITORS						
	C101	SAT	141P131050	C-CERAMIC-CHIP	CK50V 3300pF-K	BDS
	C102	SAT	141P131030	C-CERAMIC-CHIP	CK50V 2200pF-K	BDS
	C103	SAT	141P131050	C-CERAMIC-CHIP	CK50V 3300pF-K	BDS
	C105	SAT	141P131030	C-CERAMIC-CHIP	CK50V 2200pF-K	BDS
	C106	SAT	154P331090	C-CERAMIC-CHIP	CK50V 22pF-J	BDS
	C107	SAT	141P133080	C-CERAMIC-CHIP	CK50V 0.01μF-K	BDS
	C108	SAT	141P133080	C-CERAMIC-CHIP	CK50V 0.01μF-K	BDS
	C109	SAT	141P139030	C-CERAMIC-CHIP	B25V 0.1μF-K	BDS
	C110	SAT	141P133080	C-CERAMIC-CHIP	CK50V 0.01μF-K	BDS
	C111	SAT	154P333010	C-CERAMIC-CHIP	CK50V 68pF-J	BDS
	C112	SAT	154P332050	C-CERAMIC-CHIP	CK50C 39pF-J	BDS
	C113	SAT	154P333010	C-CERAMIC-CHIP	CK50V 68pF-J	BDS
	C114	SAT	154P331090	C-CERAMIC-CHIP	CK50V 22pF-J	BDS
	C115	SAT	141P133080	C-CERAMIC-CHIP	CK50V 0.01μF-K	BDS
	C116	SAT	141P139030	C-CERAMIC-CHIP	B25V 0.1μF-K	BDS
	C118	SAT	141P139030	C-CERAMIC-CHIP	B25V 0.1μF-K	BDS
	C119	SAT	141P135080	C-CERAMIC-CHIP	25V 0.1μF-Z	BDS
	C121	SAT	141P137040	C-CERAMIC-CHIP	B50V 0.022μF-Z	BDS
	C122	SAT	154P335010	C-CERAMIC-CHIP	CK50V 470pF-J	BDS
	C123	SAT	141P137080	C-CERAMIC-CHIP	B50V 0.047μF-K	BDS
	C124	SAT	141P130010	C-CERAMIC-CHIP	CK50V 220pF-J	BDS
	C125	SAT	154P335010	C-CERAMIC-CHIP	CK50V 470pF-J	BDS
	C126	SAT	141P132010	C-CERAMIC-CHIP	B50V 0.01μF-K	BDS

SYMBOL No PCB		PART No	PART NAME	DESCRIPTION	MODELS
C127	SAT	154P331090	C-CERAMIC-CHIP	CK50V 22pF-J	BDS
C128	SAT	141P139030	C-CERAMIC-CHIP	B25V 0.1μF-K	BDS
C129	SAT	154P332070	C-CERAMIC-CHIP	CK50C 47pF-J	BDS
C131	SAT	141P135080	C-CERAMIC-CHIP	25V 0.1μF-Z	BDS
C132	SAT	141P135000	C-CERAMIC-CHIP	25V 0.22μF-Z	BDS
C147	SAT	154P333010	C-CERAMIC-CHIP	CK50C 68pF-J	BDS
C152	SAT	141P139030	C-CERAMIC-CHIP	B25V 0.1μF-K	BDS
C153	SAT	141P139030	C-CERAMIC-CHIP	B25V 0.1μF-K	BDS
C157	SAT	154P333010	C-CERAMIC-CHIP	CK50V 68pF-J	BDS
C158	SAT	154P333010	C-CERAMIC-CHIP	CK50V 68pF-J	BDS
C159	SAT	154P331030	C-CERAMIC-CHIP	CK50V 12pF-J	BDS
C160	SAT	154P333050	C-CERAMIC-CHIP	CK50V 100pF-J	BDS
C161	SAT	154P332070	C-CERAMIC-CHIP	CK50C 47pF-J	BDS
C163	SAT	154P332090	C-CERAMIC-CHIP	CK50V 56pF-J	BDS
C166	SAT	154P331010	C-CERAMIC-CHIP	CH50V 10pF-C	BDS
C167	SAT	154P333070	C-CERAMIC-CHIP	CK50V 120pF-J	BDS
C169	SAT	154P332070	C-CERAMIC-CHIP	CK50C 47pF-J	BDS
C170	SAT	141P133080	C-CERAMIC-CHIP	CK50V 0.01μF-K	BDS
C171	SAT	141P132010	C-CERAMIC-CHIP	B50V 0.01μF-K	BDS
C172	SAT	141P139030	C-CERAMIC-CHIP	B25V 0.1μF-K	BDS
C174	SAT	154P331090	C-CERAMIC-CHIP	CK50V 22pF-J	BDS
C175	SAT	154P331090	C-CERAMIC-CHIP	CK50V 22pF-J	BDS
C176	SAT	141P130010	C-CERAMIC-CHIP	CK50V 220pF-J	BDS
C177	SAT	141P131030	C-CERAMIC-CHIP	CK50V 2200pF-K	BDS
C179	SAT	154P334030	C-CERAMIC-CHIP	CK50V 220pF-J	BDS
C181	SAT	141P132010	C-CERAMIC-CHIP	B50V 0.01μF-K	BDS
C182	SAT	141P133080	C-CERAMIC-CHIP	CK50V 0.01μF-K	BDS
C193	SAT	141P133080	C-CERAMIC-CHIP	CK50V 0.01μF-K	BDS
C194	SAT	141P133080	C-CERAMIC-CHIP	CK50V 0.01μF-K	BDS
C195	SAT	141P130010	C-CERAMIC-CHIP	CK50V 220pF-J	BDS
C196	SAT	141P130030	C-CERAMIC-CHIP	CK50V 330pF-K	BDS
C197	SAT	154P331030	C-CERAMIC-CHIP	CK50V 12pF-J	BDS
C198	SAT	154P331030	C-CERAMIC-CHIP	CK50V 12pF-J	BDS
C199	SAT	141P131030	C-CERAMIC-CHIP	CK50V 2200pF-K	BDS
C241	SAT	141P139030	C-CERAMIC-CHIP	B25V 0.1μF-K	BDS
C242	SAT	141P139030	C-CERAMIC-CHIP	B25V 0.1μF-K	BDS
C244	SAT	141P139030	C-CERAMIC-CHIP	B25V 0.1μF-K	BDS
C509	MAIN	172P171060	C-M-PLASTIC-PP	1600V 0.018μF-J	
C5A3	MAIN	172P942040	C-M-PLASTIC-PP	2000V 9100pF-J	
C5B1	MAIN	172P941010	C-M-PLASTIC-PP	2000V 3300pF-J	28
C5B3	MAIN	172P941030	C-M-PLASTIC-PP	2000V 3300 pF-J	25
C904	MAIN	185D059040	C-ELECTROLYTIC	385V/400V, 150μF-M	
△ C981	MAIN	189P091010	C-CERAMIC-AC	AC400V E4700pF-M	
△ C991	PWR-SUB	189P117030	C-M-POLYESTER-AC	AC275V 0.22μF-μF	
SWITCHES					
S701	MAIN	432P066010	SW-KEY-BOARD		
S702	MAIN	432P066030	SW-KEY-BOARD		
S703	MAIN	432P066030	SW-KEY-BOARD		
S704	MAIN	432P066030	SW-KEY-BOARD		

SYMBOL	No PCB	PART No	PART NAME	DESCRIPTION	MODELS
	S705	MAIN	432P066030	SW-KEY-BOARD	
⚠	S991	PWR-SUB	432C048010	SW-PUSH	AC250V 5A/80A
	SWA01	AUD-PWR	431C065020	SW-SLIDE	4-2 DC30V 1A NO
MISCELLANEOUS					
	CR5M1	MAIN	149P008010	CR-MULTIPLE	470P 3.6M-K
⚠	F991	PWR-SUB	283D047040	FUSE	T2A
	J251	MAIN	452C080020	21 PIN-SCART	035-098-4505
	J252	MAIN	452C080020	21 PIN-SCART	035-098-4505
	J253	MAIN	449C090010	SOCKET-DIN-MINI	4P-SW-TSUKI
	J254	MAIN	440C269010	PI-JACK-BOARD	LPR6529-1400
	J353	BOLBY	MELP424010	SOCKET-DIN-SP	
	J3A01	AUD-PWR	440C237020	TERMINAL-SP-8P	
	J601	CRT	449C126010	CRT SOCKET	
⚠	PC951	MAIN	268P068010	PHOTO COUPLER	TCDT1124G
	RP991	PWR-SUB	265P071050	POSISTOR	PTH451C41BG180N
	SK100	SAT	451C129020	JACK-MICROPHONE	YKB21-5129
	SP391		940B630001	ASSY-SPEAKER-SYSTEM	WITH WOOFER
	SP391		940B630002	ASSY-SPEAKER-SYSTEM	
	SP392		940B630002	ASSY-SPEAKER-SYSTEM	
	TU100	SAT	295P432010	TUNER-SAT	BSFK77G21
	TU101	MAIN	295P430010	TUNER-TV	U1343/IEC
	TU101	MAIN	295P430020	TUNER-TV	UV1315/IEC
	X301	DOLBY	285P225010	QUARTZ-CRYSTAL	AT-51 18.432MHZ
	X3D1	DOLBY	MELX017010	QUARTZ-CRYSTAL	4MHZ
	X601	MAIN	285P142020	QUARTZ-CRYSTAL	17.734475MHZ
	X602	MAIN	285P143020	QUARTZ-CRYSTAL	14.31818MHZ
	X701	MAIN	285P139040	QUARTZ-CRYSTAL	12MHZ
	X7701	TEXT	285P157010	QUARTZ-CRYSTAL	27MHZ/SAA5246
	XT100	SAT	MELX017010	CRYSTAL	4MHz
	XT101	SAT	285P139040	QUARTZ-CRYSTAL	12MHz
⚠	Z552	MAIN	299P193010	PROTECTOR	2000
	Z701	LED	939P580020	IR-PHOTO-MODULE	TFMK 5330
⚠	Z951	MAIN	299P193010	PROTECTOR	2000
⚠	Z951	MAIN	299P193030	PROTECTOR	3150
⚠	Z952	MAIN	299P193070	PROTECTOR	5000
⚠	Z953	MAIN	299P193000	PROTECTOR	1600
⚠	Z968	MAIN	299P193000	PROTECTOR	1600
PCB ASSEMBLIES					
⚠			920A416001	ASSY-PWB-MAIN	28LD
⚠			920A416003	ASSY-PWB-MAIN	28BDS
⚠			920A416019	ASSY-PWB-MAIN	28BD
⚠			920A425001	ASSY-PWB-MAIN	25LD
⚠			920A425006	ASSY-PWB-MAIN	25BD
⚠			920A425013*	ASSY-PWB-MAIN	* see notes next page
⚠			H92D001005*	ASSY-PWB-MAIN	* see notes next page
⚠			930C899001	ASSY-PWB-VM/CRT	25BD, 25LD
⚠			930C899003	ASSY-PWB-VM/CRT	28BD, 28LD
⚠			930C899007	ASSY-PWB-VM/CRT	25BDS
* see notes next page					

SYMBOL No PCB	PART No	PART NAME	DESCRIPTION	MODELS
⚠	930C899008	ASSY-PWB-VM/CRT		28BDS
⚠	930C900001	ASSY-PWB-POWER-SUB		
⚠	930C901001	ASSY-PWB-LED		
⚠	930C902010	ASSY-PWB-V/CRYPT	* see notes next page	BDS
⚠	930C903020*	ASSY-PWB-SAT	* see notes next page	*25BDS
⚠	930C903040*	ASSY-PWB-SAT	* see notes next page	*BDS
⚠	930C904004	ASSY-PWB-AUDIO-PWR		28
⚠	930C904006	ASSY-PWB-AUDIO-PWR		25
⚠	930C909001	ASSY-PWB-TEXT		
⚠	930C911002	ASSY-PWB-DOLBY		25BD, 25LD
⚠	930C911006	ASSY-PWB-DOLBY		28BDS
⚠	930C911007	ASSY-PWB-DOLBY		28BD, 28LD
⚠	930C911014	ASSY-PWB-DOLBY		25BDS
MECHANICAL AND COSMETIC				
⚠	246C162010	AC-POWER CORD/UK-PLUG		
	669D212040	SCREW 3x10 black	sp conns. / back cover fixing	
	669D218070	SCREW 5x30 sems	CRT fixing	
	669D220030	SCREW 3x10		
	669D221040	SCREW 4x12		
	669D221060	SCREW 4x16	back cover fixing	
⚠	700C600080	ASSY-BACK-COVER		25BD
⚠	700C600090	ASSY-BACK-COVER		25BDS
⚠	700C601020	ASSY-BACK-COVER		25LD
⚠	700C604050	ASSY-BACK-COVER		28BD
⚠	700C604060	ASSY-BACK-COVER		28BDS
⚠	700C604080	ASSY-BACKCOVER		28LD
	701D602080	ASSY-CABINET		25BD
	701D602090	ASSY-CABINET		25BDS
	701D604020	ASSY-CABINET		25LD
	701D605080	ASSY-CABINET		28BD
	701D605090	ASSY-CABINET		28BDS
	701D607020	ASSY-CABINET		28LD
	752C600090	ASSY-DOOR-SAT		25BD/LD
	752C601000	ASSY-DOOR-SAT		25BDS
	752C602000	ASSY-DOOR-SAT		28LD
	752C602030	ASSY-DOOR-SAT		28BDS
	752C602090	ASSY-DOOR-SAT		28BD
	752C603000	ASSY-DOOR-CONTROL		25
	752C603030	ASSY-DOOR-CONTROL		28
	754C600030	ASSY BUTTON POWER		25
	754C600050	ASSY-BUTTON POWER		28
	761C573010	DOOR-CATCH	for openable doors	
	761C550010	DOOR-CLIP	for fixed (Card reader) door	BD, LD
	244D279010	SPEAKER CABLE (PAIR)	for rear surround speakers	
	290P054070	TRANS-REMOCON		
	801C280010	PACKING-CASE		28
	801C280020	PACKING-CASE		25
	803A400010	CUSHION-SET		28
	803A401010	CUSHION-SET		25

SYMBOL No PCB	PART No	PART NAME	DESCRIPTION	MODELS
	831D296030	PACKING-BAG		25
	831D296040	PACKING-BAG		28
	871C601030	SERVICE MANUAL		
	872C123020	IB-COLOUR		LD
	872C123040	IB-COLOUR		BDS
	872C124000	IB-COLOUR		BD
	770B217010	UNIT-DOLBY-STAND	INC. rear & centre speakers	28
	770B217020	UNIT-DOLBY-STAND	INC. rear & centre speakers	25
	770B217030	UNIT-DOLBY-STAND	WITHOUT speakers	28
	770B217040	UNIT-DOLBY-STAND	WITHOUT speakers	25
	926P035020	SPEAKER-SYSTEM	rear speaker (single)	
	H48P001010	SPEAKER-SYSTEM	centre speaker (in stand)	
	999D161010	SAT-LINK-LEAD		BDS

NOTES

For CT-25AV1BDS only you *must* order the correct part numbers for **Assy PCB Main** and **Assy PCB Satellite** depending on the Serial number:

Serial Number	Assy PCB Main	Assy PCB Satellite
000001 ~ 000500	H92D001005	930C903020
000501 ~ onwards	920A425013	930C903040

Do not order these 2 parts using the numbers listed on the card inside the TV.

VideoCrypt Decoder

The VideoCrypt decoder PCB is only serviceable by Mitsubishi service department.

In the event of a fault on this PCB, please follow this procedure:

1. Contact the Mitsubishi consumer spares department to request an advance replacement VideoCrypt decoder PCB.
2. Upon receipt of the replacement PCB, complete the enclosed form and return it with the faulty PCB, in the packaging provided.

Failure to return the PCB within 30 days will incur full replacement PCB costs.

NB

The plastic PCB frame, connecting lead and fixing screw should be retained as the replacement PCB is supplied *without* these items.

7 SCHEMATIC DIAGRAMS

7.1 SERVICING PRECAUTIONS

The Δ symbol indicates components with characteristics critical to safety and performance.

These parts **must** only be replaced with parts having identical values and characteristics – refer to the Service Parts List for the correct Mitsubishi part numbers.










Do not compromise the safety of the receiver by improper servicing.

7.2 GENERAL NOTES

- DC voltages are measured from the points indicated to circuit ground.
- Waveforms are for a PAL colour bar signal.
- Test Points are shown as: "TP6A", etc.
- This is a basic circuit diagram – receivers are subject to modification due to continuous engineering improvement.

7.3 COMPONENT INFORMATION

SPECIFIC SYMBOLS

	Zener diode
	Varicap
	Posistor
	Thermistor
	Fusible resistor
	Crystal
	Air gap
	Part (e.g. resistor) on copper side of PCB
	Ceramic filter

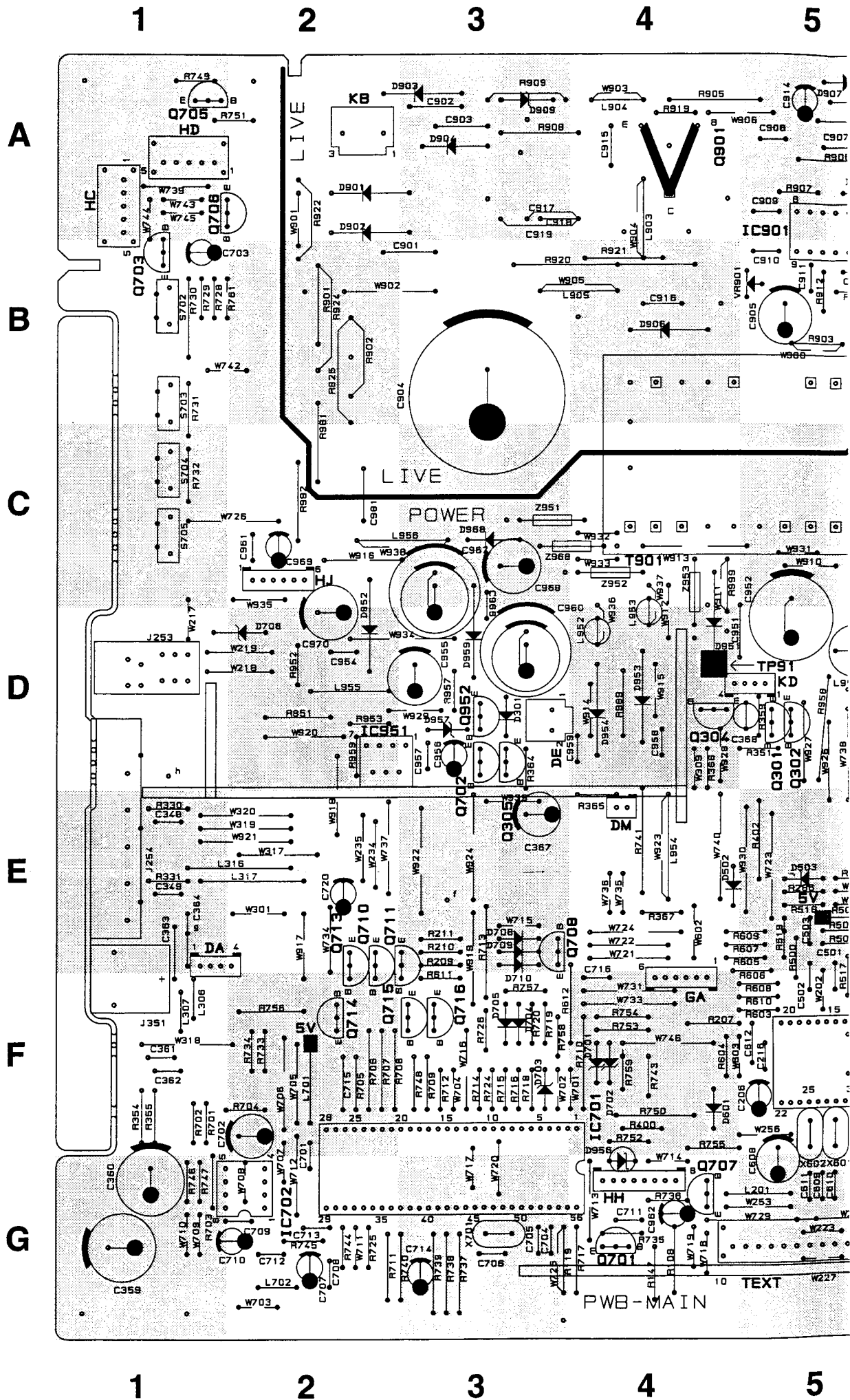
RESISTORS

Value	without spec.	Ω , K = K Ω , M = M Ω
Wattage	without spec.	1/4W or 1/6W (chips: 1/10W)
Tolerance	without spec.	$\pm 5\%$ D = $\pm 0.5\%$, F = $\pm 1\%$, J = $\pm 5\%$, K = $\pm 10\%$,
Type	without spec.	Carbon film (S) Composition (MB) Metal oxide film (CE) Cemented (W) Wire wound (M) Metal film (MPC) Metal plate cement (ML) Metal linear

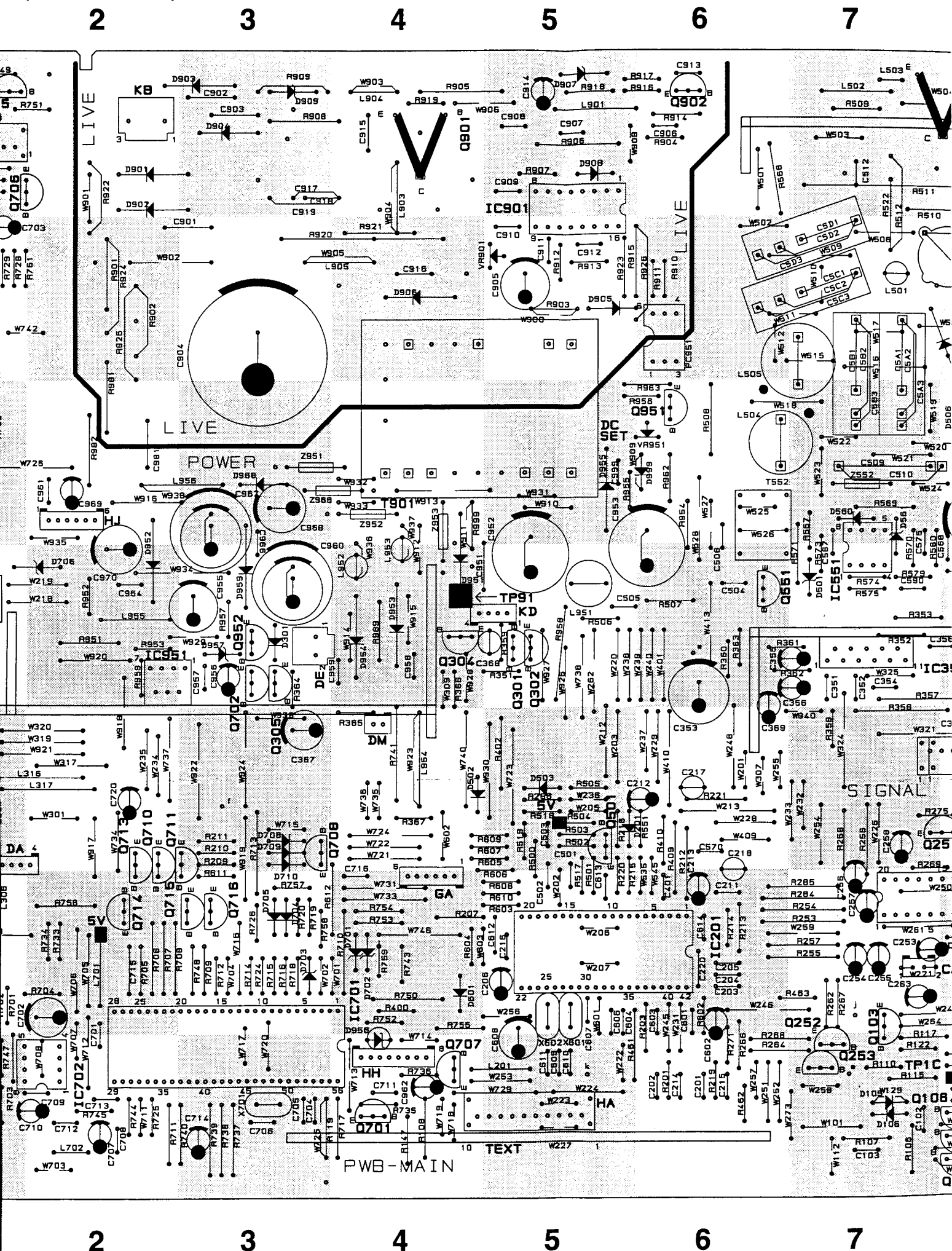
CAPACITORS

Value	without spec.	pF for values >1, μ F for values <1
Voltage	without spec.	50V
Tolerance	without spec.	electrolytic: $\pm 20\%$, others $\pm 10\%$ G = $\pm 2\%$, J = $\pm 5\%$, K = $\pm 10\%$, M = $\pm 20\%$, P = +100 -0%, Z = +80 -20%, Q = +30 -10%, T = +200 -0%, C = ± 0.25 pF, D = ± 0.5 , F = ± 1 pF, G = ± 2 pF
Type	without spec.	Ceramic (MF) Polyester (PP) Polypropylene film (ALM) Aluminum electrolytic (TF) Twin film (SC) Semiconductor ceramic (MP) Metalised paper (MPP) Metalised plastic film (MMF) Metalised polyester (MF.PP) Polyester/polypropylene film (PS) Polystyrene (styrol) (TAN) or (TANT) Tantalum —N— Electrolytic (BP) or (NP) Non-polarised electrolytic
Characteristic	(only ceramic capacitors)	
	without spec.	B or F (high dielectric)
	CH, SL, etc.	Temperature compensating types

PCB-MAIN (AV1 series)



(AV1 series)



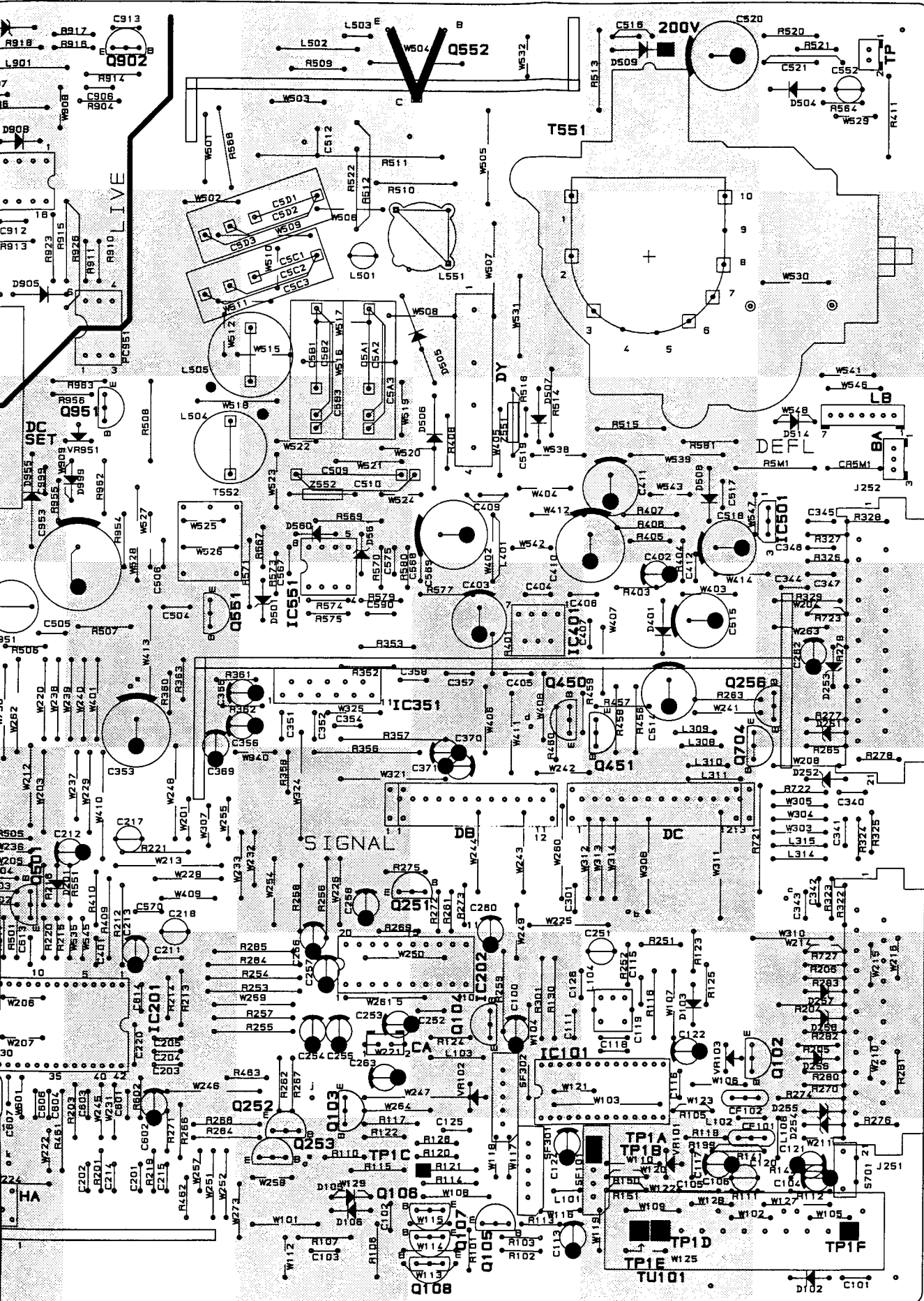
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7

8

9

10



A

B

C

D

E

F

G

6

7

8

9

10

MAIN PCB COMPONENT ADDRESSES

C509	C7
C5A1	B7
C5A2	B7
C5A3	C7
C5B1	B7
C5B2	B7
C5B3	C7
C5C1	B7
C5C2	B7
C5C3	B7
C5D1	B7
C5D2	B7
C5D3	B6
C904	B3
C981	C2
CF101	G9
CF102	F9
CR5M1	C10
D102	G10
D103	F9
D105	G7
D106	G7
D201	E6
D251	D10
D252	E10
D253	D10
D254	G10
D255	F10
D256	F10
D257	F10
D258	F10
D301	D3
D401	D9
D501	D7
D502	E4
D503	E5
D504	A10
D505	B9
D506	C8
D507	C8
D508	C9
D509	A9
D514	C10
D560	C7
D561	C7
D601	F4
D701	F4
D702	F4
D703	F3
D704	F3
D705	F3
D706	D2

D708	E3
D709	E3
D710	E3
D901	A2
D902	A2
D903	A3
D904	A3
D905	B5
D906	B4
D907	A5
D908	A5
D909	A3
D951	D4
D952	D2
D953	D4
D954	D4
D955	C5
D956	G4
D957	D3
D959	D3
D968	C3
D999	C6
IC101	F9
IC201	F6
IC202	F8
IC351	D7
IC401	D8
IC501	C10
IC551	D7
IC701	F4
IC702	G2
IC901	A5
IC951	D2
J251	G10
J252	C10
J253	D1
J254	E1
J351	F1
L101	G8
L102	G9
L103	F8
L104	F9
L106	G10
L201	G5
L306	F1
L307	F1
L308	D9
L309	D9
L310	E9
L311	E9
L314	E10
L315	E10

L316	E2
L317	E2
L401	C8
L501	B7
L502	A7
L503	A7
L504	C6
L505	B6
L551	B8
L701	F2
L702	G2
L901	A5
L903	A4
L904	A4
L905	B4
L951	D5
L952	D4
L953	D4
L954	E4
L955	D2
L956	C3
PC951	B6
Q102	F10
Q103	F7
Q104	F8
Q105	G8
Q106	G8
Q107	G8
Q108	G7
Q251	E8
Q252	G7
Q253	G7
Q256	D10
Q301	D5
Q302	D5
Q304	D4
Q305	D3
Q450	D8
Q451	D9
Q501	E5
Q551	D6
Q552	A8
Q701	G4
Q702	D3
Q703	B1
Q704	D10
Q705	A1
Q706	A1
Q707	G4
Q708	E3
Q710	E2
Q711	E2

Q713	E2
Q714	F2
Q715	F3
Q716	F3
Q901	A4
Q902	A6
Q951	C6
Q952	D3
R352	D7
R353	D7
R406	C9
R508	C6
R511	A7
R512	A7
R513	A9
R514	C8
R516	C8
R573	D7
R574	D7
R575	D7
R5M1	C10
R921	B4
R954	C6
R955	C5
R981	C2
R982	C2
S701	G10
S702	B1
S703	B1
S704	C1
S705	C1
SF101	G9
SF301	G8
SF302	F8
T551	A8
T552	C6
T901	C4
TU101	G9
VR101	G9
VR102	F8
VR103	F9
VR901	B5
VR951	C6
X601	F5
X602	F5
X701	G3
Z551	C8
Z552	C7
Z951	C3
Z952	C4
Z953	C4
Z968	C3

