TOSHIBA

FILE NO. 030-200105

SERVICE MANUAL

COLOUR TELEVISION

C00S Chassis

36ZP18P, 32ZP18P

PRINTED IN JAPAN Mar., 2001 Ⓣ

TOSHIBA

FILE NO. 033-200201

SERVICE MANUAL

COLOUR TELEVISION

C00S Chassis

36ZP18Q

– SUMMARY –

36ZP18Q is the same as 36ZP18P except for the parts tabled on back of this sheet.
Use this service manual together with the original service manual of 36ZP18P, 32ZP18P (File No. 030-200105).

Jan., 2002

REPLACEMENT PARTS LIST DIFFERENCES

Location No.	Part No.	Description
CT01	24792221	EL, 220μF, ±20%, 6.3V
CT02	24109103	Chip, 0.01μF, ±10%
CT03	24109103	Chip, 0.01μF, ±10%
CT04	24793101	EL, 100μF, ±20%, 10V
CT05	24100104	Chip, 0.1μF, +80%, -20%, 25V
CT06	24793470	EL, 47μF, ±20%, 10V
CT07	24092538	Chip, 1μF, +80%, -20%, 10V
CT08	24105560	Chip, 56pF
CT09	24105560	Chip, 56pF
CT10	24793470	EL, 47μF, ±20%, 10V
CT11	24100104	Chip, 0.1μF, +80%, -20%, 25V
CT12	24793470	EL, 47μF, ±20%, 10V
CT13	24100104	Chip, 0.1μF, +80%, -20%, 25V
CT14	24100104	Chip, 0.1μF, +80%, -20%, 25V
CT17	24100104	Chip, 0.1μF, +80%, -20%, 25V
CT19	24794100	EL, 10μF, ±20%, 16V
CT20	24109103	Chip, 0.01μF, ±10%
CT21	24794100	EL, 10μF, ±20%, 16V
CT23	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX104	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX105	24774330	Chip, 33pF, CH
CX106	24774270	Chip, 27pF, CH
CX107	24774101	Chip, 100pF, CH
CX108	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX111	24092621	Chip, 1μF, ±10%, 10V
CX113	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX114	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX115	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX116	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX117	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX121	24774470	Chip, 47pF, CH
CX122	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX123	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX124	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX126	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX128	24092441	Chip, 1μF, +80%, -20%, 16V
CX129	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX130	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX145	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX148	24774101	Chip, 100pF, CH
CX149	24774470	Chip, 47pF, CH
CX150	24774271	Chip, 270pF, CH
CX151	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX155	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX157	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX159	24092441	Chip, 1μF, +80%, -20%, 16V
CX160	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX165	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX168	24774101	Chip, 100pF, CH
CX169	24774470	Chip, 47pF, CH
CX170	24774271	Chip, 270pF, CH
CX171	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX177	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX179	24092441	Chip, 1μF, +80%, -20%, 16V
CX180	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX184	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX185	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX186	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX190	24774330	Chip, 33pF, CH
CX191	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX192	24092293	Chip, 0.1μF, +80%, -20%, 25V

Location No.	Part No.	Description
CX193	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX201	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX202	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX204	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX205	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX206	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX208	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX209	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX211	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX212	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX214	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX215	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX216	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX221	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX222	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX224	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX227	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX228	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX230	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX231	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX232	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX234	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX237	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX238	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX239	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX240	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX241	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX243	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX244	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX245	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX246	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX247	24872331	Chip, 330 ohm, 1/16W
CX249	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX250	24092293	Chip, 0.1μF, +80%, -20%, 25V
GT03	24011472	Chip, 4700 ohm, 1/20W
GT04	24011472	Chip, 4700 ohm, 1/20W
GT05	24011472	Chip, 4700 ohm, 1/20W
GT07	24000445	Chip Jumper, 1680 Type
GT09	24011103	Chip, 10k ohm, 1/20W
K902	23306435	Remote Hand Unit, CT-90101
LT01	23103828	Chip (Ferrite Bead), TEM2121M
LT02	23103828	Chip (Ferrite Bead), TEM2121M
LT03	23103828	Chip (Ferrite Bead), TEM2121M
LT04	23103828	Chip (Ferrite Bead), TEM2121M
LT05	23103828	Chip (Ferrite Bead), TEM2121M
LT07	23103828	Chip (Ferrite Bead), TEM2121M
LT08	23103828	Chip (Ferrite Bead), TEM2121M
LT09	23103828	Chip (Ferrite Bead), TEM2121M
LT11	23103828	Chip (Ferrite Bead), TEM2121M
LT12	23103828	Chip (Ferrite Bead), TEM2121M
LX241	23103822	Chip (Ferrite Bead), TEM2117T
QA01	23009082	IC, 750010-179S
QR01	23009037	IC, MB90096P-232
QR03	23205123	Transistor, 2SA933ASQ
QT01	23000724	IC, SAA5665/0531
QT02	23314993	Transistor, 2SC4081T106Q
QT03	70114402	Transistor, 2SC3437Y-L
QT05	23314993	Transistor, 2SC4081T106Q
QT06	23000283	IC, R1121N331B-T
QT08	23314993	Transistor, 2SC4081T106Q
QT09	23000727	IC, M51008BVP12V

Location No.	Part No.	Description
QT10	23314993	Transistor, 2SC4081T106Q
QT11	23906367	IC, PST9146NL
QT12	23314994	Transistor, 2SA1576AT106
QT13	23314994	Transistor, 2SA1576AT106
QT14	23314994	Transistor, 2SA1576AT106
QT15	23314994	Transistor, 2SA1576AT106
QX02	23000198	IC, EM636327Q-8
QX21	23318824	IC, TC7S08F T85L
R101	24366104	CF, 100k ohm
RT01	24011101	Chip, 100 ohm, 1/20W
RT02	24011101	Chip, 100 ohm, 1/20W
RT03	24011102	Chip, 1k ohm, 1/20W
RT04	24011102	Chip, 1k ohm, 1/20W
RT05	24011100	Chip, 10 ohm, 1/20W
RT06	24011332	Chip, 3300 ohm, 1/20W
RT07	24011473	Chip, 47k ohm, 1/20W
RT08	24011473	Chip, 47k ohm, 1/20W
RT09	24011332	Chip, 3300 ohm, 1/20W
RT10	24011222	Chip, 2200 ohm, 1/20W
RT11	24011332	Chip, 3300 ohm, 1/20W
RT12	24011222	Chip, 2200 ohm, 1/20W
RT13	24011102	Chip, 1k ohm, 1/20W
RT14	24011102	Chip, 1k ohm, 1/20W
RT15	24011473	Chip, 47k ohm, 1/20W
RT16	24011473	Chip, 47k ohm, 1/20W
RT18	24011223	Chip, 22k ohm, 1/20W
RT19	24000445	Chip Jumper, 1680 Type
RT20	24011102	Chip, 1k ohm, 1/20W
RT21	24011332	Chip, 3300 ohm, 1/20W
RT22	24011222	Chip, 2200 ohm, 1/20W
RT23	24000445	Chip Jumper, 1680 Type
RT24	24000594	Chip, 12k ohm, ±1%, 1/16W
RT26	24011472	Chip, 4700 ohm, 1/20W
RT27	24000594	RM73B1J123FD
RT28	24011101	Chip, 100 ohm, 1/20W
RT29	24011101	Chip, 100 ohm, 1/20W
RT30	24011473	Chip, 47k ohm, 1/20W
RT31	24011103	Chip, 10k ohm, 1/20W
RT32	24011103	Chip, 10k ohm, 1/20W
RT33	24011472	Chip, 4700 ohm, 1/20W
RT34	24011222	Chip, 2200 ohm, 1/20W
RT35	24011102	Chip, 1k ohm, 1/20W
RT37	24011101	Chip, 100 ohm, 1/20W
RT38	24011151	Chip, 150 ohm, 1/20W
RT39	24011561	Chip, 560 ohm, 1/20W
RT40	24011151	Chip, 150 ohm, 1/20W
RT42	24011470	Chip, 47 ohm, 1/20W
RT43	24011151	Chip, 150 ohm, 1/20W
RT44	24011103	Chip, 10k ohm, 1/20W
RX107	24872821	Chip, 820 ohm, 1/16W
RX130	24872561	Chip, 560 ohm, 1/16W
RX131	24782102	Chip, 1k ohm, 1/16W
✻ U104	23787220	TEXT Board, PD0267B
✻ U105	23784880	DFS SDRAM Board, PB9512A
✻ U902A	23787221	SIGNAL/BLA Board, PD0039D
XT01	23153930	Crystal, 12.0MHz
Y101	23565500	Owner's Manual, English, 36ZP18Q
Y102	23565496	Owner's Manual, French, 36ZP18Q
Y103	23565497	Owner's Manual, German, 36ZP18Q
Y104	23565498	Owner's Manual, Italian, 36ZP18Q
Y105	23565495	Owner's Manual, Spanish, 36ZP18Q
Y106	23565499	Owner's Manual, Portuguese, 36ZP18Q
Y131	23565569	QSUG

TOSHIBA

FILE NO. 033-200205

SERVICE MANUAL

COLOUR TELEVISION

C00S Chassis

32ZP18Q

– SUMMARY –

32ZP18Q is the same as 32ZP18P except for the parts tabled on back of this sheet.
Use this service manual together with the original service manual of 36ZP18P, 32ZP18P (File No. 030-200105).

PUBLISHED IN JAPAN, Feb., 2002 So

REPLACEMENT PARTS LIST DIFFERENCES

Location No.	Part No.	Description
CT01	24792221	EL, 220μF, ±20%, 6.3V
CT02	24109103	Chip, 0.01μF, ±10%
CT03	24109103	Chip, 0.01μF, ±10%
CT04	24793101	EL, 100μF, ±20%, 10V
CT05	24100104	Chip, 0.1μF, +80%, -20%, 25V
CT06	24793470	EL, 47μF, ±20%, 10V
CT07	24092538	Chip, 1μF, +80%, -20%, 10V
CT08	24105560	Chip, 56pF
CT09	24105560	Chip, 56pF
CT10	24793470	EL, 47μF, ±20%, 10V
CT11	24100104	Chip, 0.1μF, +80%, -20%, 25V
CT12	24793470	EL, 47μF, ±20%, 10V
CT13	24100104	Chip, 0.1μF, +80%, -20%, 25V
CT14	24100104	Chip, 0.1μF, +80%, -20%, 25V
CT17	24100104	Chip, 0.1μF, +80%, -20%, 25V
CT19	24794100	EL, 10μF, ±20%, 16V
CT20	24109103	Chip, 0.01μF, ±10%
CT21	24794100	EL, 10μF, ±20%, 16V
CT23	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX111	24092621	Chip, 1μF, ±10%, 10V
CX121	24774470	Chip, 47pF, CH
CX130	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX241	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX243	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX244	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX245	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX246	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX247	24872331	Chip, 330 ohm, 1/16W
CX249	24092293	Chip, 0.1μF, +80%, -20%, 25V
CX250	24092293	Chip, 0.1μF, +80%, -20%, 25V
GT03	24011472	Chip, 4700 ohm, 1/20W
GT04	24011472	Chip, 4700 ohm, 1/20W
GT05	24011472	Chip, 4700 ohm, 1/20W
GT07	24000445	Chip Jumper, 1680 Type
GT09	24011103	Chip, 10k ohm, 1/20W
K902	23306435	Remote Hand Unit, CT-90101
LT01	23103828	Chip (Ferrite Bead), TEM2121M
LT02	23103828	Chip (Ferrite Bead), TEM2121M
LT03	23103828	Chip (Ferrite Bead), TEM2121M
LT04	23103828	Chip (Ferrite Bead), TEM2121M
LT05	23103828	Chip (Ferrite Bead), TEM2121M
LT07	23103828	Chip (Ferrite Bead), TEM2121M
LT08	23103828	Chip (Ferrite Bead), TEM2121M
LT09	23103828	Chip (Ferrite Bead), TEM2121M
LT11	23103828	Chip (Ferrite Bead), TEM2121M
LT12	23103828	Chip (Ferrite Bead), TEM2121M
LX241	23103822	Chip (Ferrite Bead), TEM2117T
QA01	23009082	IC, 750010-179S
QR01	23009037	IC, MB90096P-232
QR03	23205123	Transistor, 2SA933ASQ
QT01	23000724	IC, SAA5665/0531
QT02	23314993	Transistor, 2SC4081T106Q
QT03	70114402	Transistor, 2SC3437Y-L
QT05	23314993	Transistor, 2SC4081T106Q
QT06	23000283	IC, R1121N331B-T
QT08	23314993	Transistor, 2SC4081T106Q
QT09	23000727	IC, M51008BVP12V
QT10	23314993	Transistor, 2SC4081T106Q
QT11	23009114	IC, BD4746G-TR
QT12	23314994	Transistor, 2SA1576AT106
QT13	23314994	Transistor, 2SA1576AT106
QT14	23314994	Transistor, 2SA1576AT106
QT15	23314994	Transistor, 2SA1576AT106

Location No.	Part No.	Description
QX02	23000198	IC, EM636327Q-8
QX21	23318824	IC, TC7S08F T85L
RT01	24011101	Chip, 100 ohm, 1/20W
RT02	24011101	Chip, 100 ohm, 1/20W
RT03	24011102	Chip, 1k ohm, 1/20W
RT04	24011102	Chip, 1k ohm, 1/20W
RT05	24011100	Chip, 10 ohm, 1/20W
RT06	24011332	Chip, 3300 ohm, 1/20W
RT07	24011473	Chip, 47k ohm, 1/20W
RT08	24011473	Chip, 47k ohm, 1/20W
RT09	24011332	Chip, 3300 ohm, 1/20W
RT10	24011222	Chip, 2200 ohm, 1/20W
RT11	24011332	Chip, 3300 ohm, 1/20W
RT12	24011222	Chip, 2200 ohm, 1/20W
RT13	24011102	Chip, 1k ohm, 1/20W
RT14	24011102	Chip, 1k ohm, 1/20W
RT15	24011473	Chip, 47k ohm, 1/20W
RT16	24011473	Chip, 47k ohm, 1/20W
RT18	24011223	Chip, 22k ohm, 1/20W
RT19	24000445	Chip Jumper, 1680 Type
RT20	24011102	Chip, 1k ohm, 1/20W
RT21	24011332	Chip, 3300 ohm, 1/20W
RT22	24011222	Chip, 2200 ohm, 1/20W
RT23	24000445	Chip Jumper, 1680 Type
RT24	24000594	Chip, 12k ohm, ±1%, 1/16W
RT26	24011472	Chip, 4700 ohm, 1/20W
RT27	24000594	RM73B1J123FD
RT28	24011101	Chip, 100 ohm, 1/20W
RT29	24011101	Chip, 100 ohm, 1/20W
RT30	24011473	Chip, 47k ohm, 1/20W
RT31	24011103	Chip, 10k ohm, 1/20W
RT32	24011103	Chip, 10k ohm, 1/20W
RT33	24011472	Chip, 4700 ohm, 1/20W
RT34	24011222	Chip, 2200 ohm, 1/20W
RT35	24011102	Chip, 1k ohm, 1/20W
RT37	24011101	Chip, 100 ohm, 1/20W
RT38	24011151	Chip, 150 ohm, 1/20W
RT39	24011561	Chip, 560 ohm, 1/20W
RT40	24011151	Chip, 150 ohm, 1/20W
RT42	24011470	Chip, 47 ohm, 1/20W
RT43	24011151	Chip, 150 ohm, 1/20W
RT44	24011103	Chip, 10k ohm, 1/20W
RX107	24872821	Chip, 820 ohm, 1/16W
RX130	24872561	Chip, 560 ohm, 1/16W
RX131	24782102	Chip, 1k ohm, 1/16W
✻ U104	23787220	TEXT Board, PD0267B
✻ U105	23784880	DFS SDRAM Board, PB9512A
✻ U902A	23787222	SIGNAL/BLA Board, PD0039C
XT01	23153930	Crystal, 12.0MHz
Y101	23565500	Owner's Manual, English, 32ZP18Q
Y102	23565496	Owner's Manual, French, 32ZP18Q
Y103	23565497	Owner's Manual, German, 32ZP18Q
Y104	23565498	Owner's Manual, Italian, 32ZP18Q
Y105	23565495	Owner's Manual, Spanish, 32ZP18Q
Y106	23565499	Owner's Manual, Portuguese, 32ZP18Q
Y131	23565569	QSUG

TOSHIBA CORPORATION

1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN

TABLE OF CONTENTS

CHAPTER 1 **GENERAL ADJUSTMENTS**

SAFETY INSTRUCTIONS 3
SET-UP ADJUSTMENT 4
SERVICE MODE 6
DESIGN MODE 9
ELECTRICAL ADJUSTMENTS 10
CIRCUIT CHECK 17

CHAPTER 2 **SPECIFIC INFORMATIONS**

SETTING & ADJUSTING DATA 18
LOCATION OF CONTROLS 19
CIRCUIT BLOCK DIAGRAM 21
CHASSIS AND CABINET REPLACEMENT PARTS LIST 22
PC BOARDS BOTTOM VIEW 41
TERMINAL VIEW OF TRANSISTORS 52
SPECIFICATIONS 55
APPENDIX:
CIRCUIT DIAGRAM

CHAPTER 1 GENERAL ADJUSTMENTS

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is (A) kV at zero beam current (minimum brightness) under a (C) V AC power source. The high voltage must not, under any circumstances, exceed (B) kV.

   Refer to table-1 for high voltage (A), (B) & AC voltage (C). (See SETTING & ADJUSTING DATA on page 18)

   Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure in this manual. It is recommended that the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.
2. The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
3. Some part in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

SAFETY PRECAUTION

WARNING : Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; nonmetallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-ray radiation or other hazards.

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE “X-RAY RADIATION PRECAUTION”, “SAFETY PRECAUTION” AND “PRODUCT SAFETY NOTICE” ON PAGE 3 OF THIS MANUAL.

SET-UP ADJUSTMENT

■ The following adjustments should be made when a complete realignment is required or a new picture tube is installed. Perform the adjustments in order as follows :

1. Color Purity
2. Convergence
3. White Balance

Note: The PURITY/CONVERGENCE MAGNET assembly and rubber wedges need mechanical positioning. Refer to figure 1.
Mounting position of the purity magnet assembly should fit to same position as old one because slightly difference to the position depend on a kind of tube.

* There are no adjustment of purity and convergence in some picture tube (Unified with purity magnet)

COLOR PURITY ADJUSTMENT

NOTE : Before attempting any purity adjustments, the receiver should be operated for at least fifteen minutes.

1. Demagnetize the picture tube and cabinet using a degaussing coil.
2. Set the brightness and contrast to maximum.
3. Use a green raster from among the built-in test signals.
4. Loosen the clamp screw holding the yoke and slide the yoke backward or forward to provide vertical green belt (zone) in the picture screen.
5. Remove the Rubber Wedges.
6. Rotate and spread the tabs of the purity magnet (See figure 2.) around the neck of the picture tube until the green belt is in the center of the screen. At the same time, enter the raster vertically.
7. Slowly move the yoke forward or backward until a uniform green screen is obtained. Tighten the clamp screw of the yoke temporarily.
8. Check the purity of the red and blue raster.

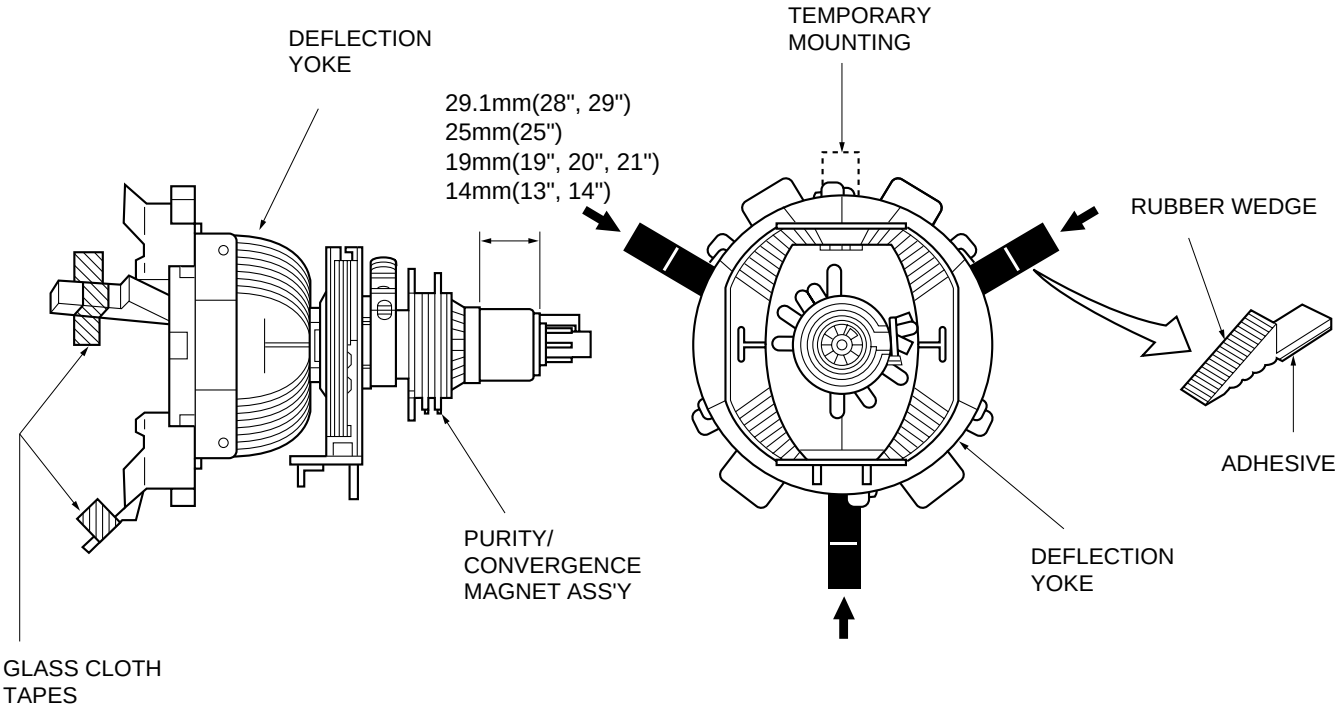


Figure 1.

CONVERGENCE ADJUSTMENTS

NOTE: Before attempting any convergence adjustments, the receiver should be operated for at least fifteen minutes.

■ CENTER CONVERGENCE ADJUSTMENT

1. Use the cross-dot pattern from among the built-in test signals.
2. Set the brightness and contrast for well defined pattern.
3. Adjust two tabs of the 4-Pole Magnets to change the angle between them (See figure 2.) and superimpose red and blue vertical lines in the center area of the picture screen.
4. Turn the both tabs at the same time keeping the angle constant to superimpose red and blue horizontal lines at the center of the screen.
5. Adjust two tabs of 6-Pole Magnets to superimpose red/blue line and green one. Adjusting the angle affects the vertical lines and rotating both magnets affects the horizontal lines.
6. Repeat adjustments 3, 4, 5 keeping in mind red, green and blue movement, because 4-Pole Magnets and 6-Pole Magnets have mutual interaction and make dot movement complex.

■ CIRCUMFERENCE CONVERGENCE ADJUSTMENT

1. Loosen the clamping screw of deflection yoke slightly to allow the yoke to tilt.
2. Temporarily put a wedge as shown in figure 1. (Do not remove cover paper on adhesive part of the wedge.)
3. Tilt front of the deflection yoke up or down to obtain better convergence in circumference. (See figure 3.) Push the mounted wedge into the space between picture tube and the yoke to fix the yoke temporarily.
4. Put other wedge into bottom space and remove the cover paper to stick.
5. Tilt front of the yoke right or left to obtain better convergence in circumference. (See figure 3.)
6. Keep the yoke position and put another wedge in either upper space. Remove cover paper and stick the wedge on picture tube to fix the yoke.
7. Detach the temporarily mounted wedge and put it in another upper space. Stick it on picture tube to fix the yoke.
8. After fixing three wedges, recheck overall convergence. Tighten the screw firmly to fix the yoke and check the yoke is firm.
9. Stick three adhesive tapes on wedges as shown in figure 1.

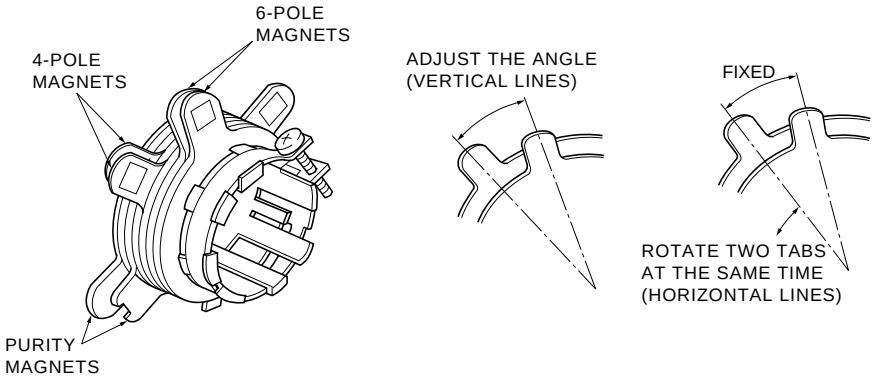
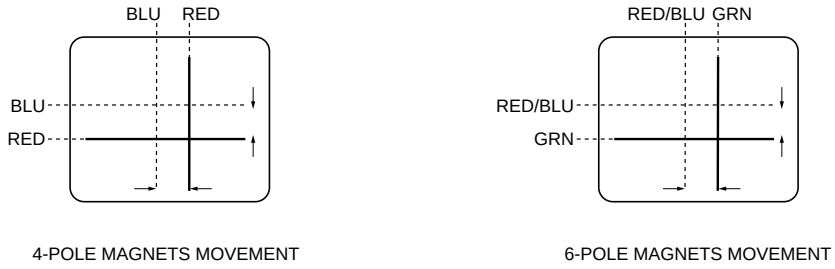


Figure 2.



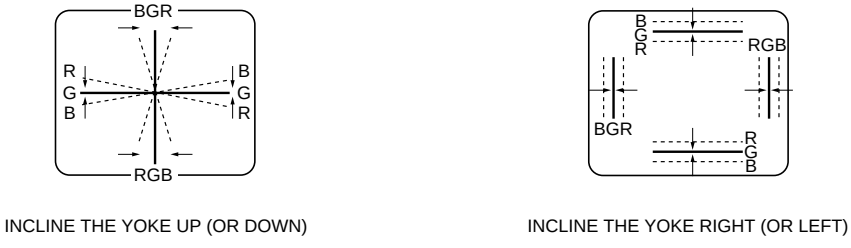


Figure 3. Dot Movement Pattern

SERVICE MODE

1. ENTERING TO SERVICE MODE

1) Press 🔇 button once on Remote Control.

2) Press 🔇 button again to keep pressing.

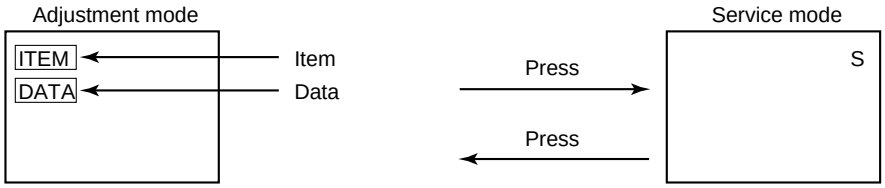
3) While pressing the 🔇 button, press MENU button on TV set.



(Service mode display)

2. DISPLAYING THE ADJUSTMENT MENU

1) Press MENU button on TV.



3. KEY FUNCTION IN THE SERVICE MODE

The following key entry during display of adjustment menu provides special functions.

A single horizontal line ON/OFF:	INFO button (on Remote) or ⊖ button (on TV)
Test signal selection :	⊖ button (on Remote)
Selection of the adjustment items :	Channel ▲/▼ (on TV or Remote)
Change of the data value :	Volume ◿ +/– (on TV or Remote)
Adjustment menu mode ON/OFF :	MENU button (on TV)
Initialization of the memory (QA02) :	CALL + Channel button on TV (▲)
Reset the count of operating protect circuit to “00”:	CALL + Channel button on TV (▼)
“RCUT” selection :	1 button
“GCUT” selection :	2 button
“BCUT” selection :	3 button
“CNTX” (or “SCNT”) selection :	4 button
“COLC” selection :	5 button– – – – – Color thickness correction
“TNTC” selection :	6 button note: Displayed differently as shown below, depending on the setting of the receiving color system.
Self diagnostic display ON/OFF :	9 button COLP (PAL) COLC (NTSC) COLS (SECAM)

CAUTION : Never try to perform initialization unless you have changed the memory IC.

4. SELECTING THE ADJUSTING ITEMS

1) Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2. (▼ button for reverse order)

Refer to table-2 for preset data of adjustment mode.
(See SETTING & ADJUSTING DATA on page 18)

5. ADJUSTING THE DATA

1) Pressing of VOLUME ◿ +/– button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

6. EXIT FROM SERVICE MODE

1) Pressing POWER button to turn off the TV once.

■ INITIALIZATION OF MEMORY DATA OF QA02

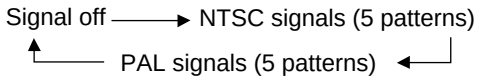
After replacing QA02, the following initialization is required.

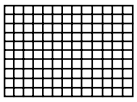
1. Enter the service mode, then select any register item.
2. Press and hold the CALL button on the Remote, then press the CHANNEL ▲ button on the TV. The initialization of QA02 has been complated.
3. Check the picture carefully. If necessary, adjust any adjustment item above. Perform “Auto search Memory” on the owner’s manual.

CAUTION: Never attempt to initialize the data unless QA02 has been replaced.

7. TEST SIGNAL SELECTION

1) Every pressing of ⊖ button on the Remote Control changes the built-in test patterns on screen as described below in SERVICE MODE.

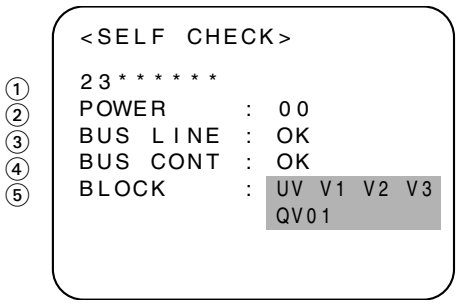


Signals	Picture
• Red raster • Green raster • Blue raster • All White	
• Black cross-hatch	

* The signals marked with ▒ are not usable to display in the Test signal for some model.

8. SELF DIAGNOSTIC FUNCTION

1) Press “9” button on Remote Control during display of adjustment menu in the service mode.
   The diagnosis will begin to check if interface among IC’s are executed properly.
2) During diagnosis, the following displays are shown.



Indicated color of mode now selected : Green and Red
Indicated color of other modes : White

Green : Normal
Red : The microcomputer operates to provide judgement of no video signal. The red color is still indicated though the signal is input, failure may exist in input signal line including QV01.
QV01 : In case of indication green ---Normal
In case of indication red with input signal----
Failure may exist in output line including QV01.

① Part number of microcomputer (QA01)
② Operation number of protecting circuit ----“00” is normal.
When indication is other than “00”, overcurrent apts to flow, and circuit parts may possibly be damaged.
③ BUS LINE CHECK ----“OK” is normal.
“SDA1-GND” ---------- SDA-GND short circuit.
“SCL1-GND” ---------- SCL-GND short circuit.
“SCL1-SDA1” ---------- SCL-SDA short circuit.
④ BUS CONT ----“OK” is normal.
When indication shows “Q ○○○ NG”, the device with the number may possibly be damaged.
⑤BLOCK
UV : TV reception mode
V1 : VIDEO 1 input mode (→①1)
V2 : VIDEO 2 input mode (→①2)
V3 : VIDEO 3 input mode (→①3)

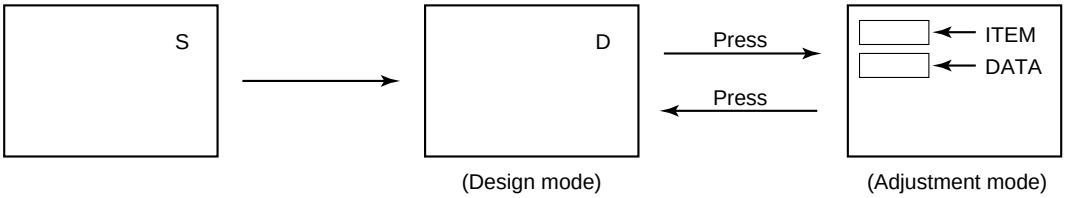
NOTE: Component which controls character display on screen is ICF01 (TELETEXT IC.). If this display function fails to operate due to damage in ICF01, self diagnosis procedure is as follows.
(1) In case that power indicator is blinking with interval of 0.5 seconds; it means protecting circuit (Current limiter) is operating, and circuit components may possibly be damaged. Check related components.
(2) In case that power indicator is blinking with interval of 1 second; Protecting circuit does not operate, but a part of Bus line does not operate normally. Check Bus line.

* The items marked with ▒ are not usable to display in the SELF DIAGNOSTIC FUCTION for some model.

DESIGN MODE

1. ENTERING TO DESIGN MODE

1) Select the Service mode. 2) While pressing 🔇 or CALL button on Remote and press MENU button on TV. 3) Press MENU button on TV.



(Design mode) (Adjustment mode)

When QA02 is initialized, items “OPT0” and “OPT1” of DESIGN MODE are set to the data of the representative model of this chassis family.
Therefore, because ON-SCREEN specification remains in the state of the representative of model. This model is required to reset the data of items “OPT0” and “OPT1”.

2. SELECTING THE ADJUSTING ITEMS

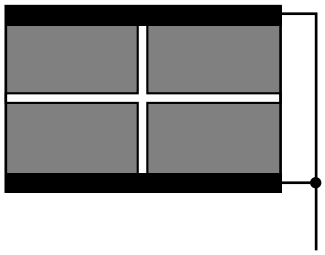
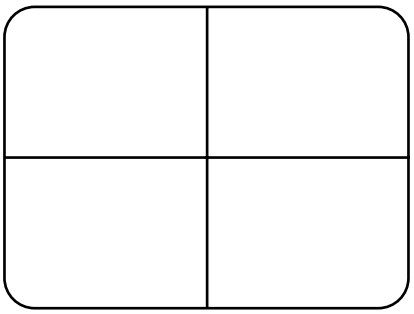
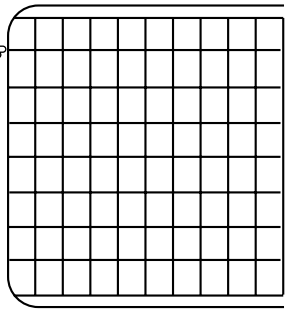
Every pressing of CHANNEL ▼ button in the design mode changes the adjustment items in the order of table-3.
(▲ button for reverse order)

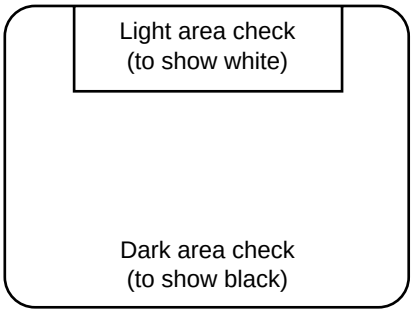
Refer to table-3 for data of design mode.
(See SETTING & ADJUSTING DATA on page 18)

3. ADJUSTING THE DATA

Pressing of VOLUME ▲ or ▼ button will change the value of data.

ELECTRICAL ADJUSTMENTS

ITEM	ADJUSTMENT PROCEDURE
FOCUS VR ADJ	1. Enter the service mode, then select any register item. 2. Press the TV/VIDEO button on the Remote until the black cross-bar pattern appears on the screen. 3. Adjust the FOCUS control (on T461) for well defined scanning lines on the picture screen.
SUB-BRIGHTNESS (BRTC) Note: Constrict the picture height until the vertical retrace line appears adjusting the item HIT (HEIGHT).	1. Set CONTRAST to minimum, and BRIGHTNESS to center by adjusting user controls. 2. Set the TV in service mode to get white cross-bar of inside pattern. 3. Select BRTC (brightness correction), and adjust the ◿ – /+ button to reduce the value so that white portion of inside pattern slightly light. 4. Adjust ◿ – /+ button to increase the data value of BRTC, and set it just before the difference between the belt of vertical retrace and the border of black portion of inside pattern is visible. After that, return vertical height and contrast.  Belt of vertical retrace
HORIZONTAL POSITION ADJUSTMENT (HPOS) VERTICAL POSITION ADJUSTMENT (VPOS)	1. Set the TV in service mode, and get black or white cross-bar signal with VIDEO button on remote hand unit. 2. Select either HPOS (Horizontal picture phase) or VPOS (Vertical picture phase) with CHANNEL ▲, ▼ buttons, and adjust horizontal or vertical picture position in the center of screen with VOLUME ◿ – /+ buttons. 
VERTICAL AMPLITUDE ADJUSTMENT (HIT)	1. Set the TV in service mode, and get black or white cross-hatch signal with VIDEO button on remote hand unit. 2. Select HIT (Vertical amplitude) with CHANNEL ▲, ▼ buttons, and adjust vertical amplitude with VOLUME ◿ – /+ buttons so that vertical amplitude lacks a little. 3. Adjust vertical amplitude with VOLUME ◿ – /+ buttons so that the first bar on cross-hatch signal touches edge of screen. The first ☞ 

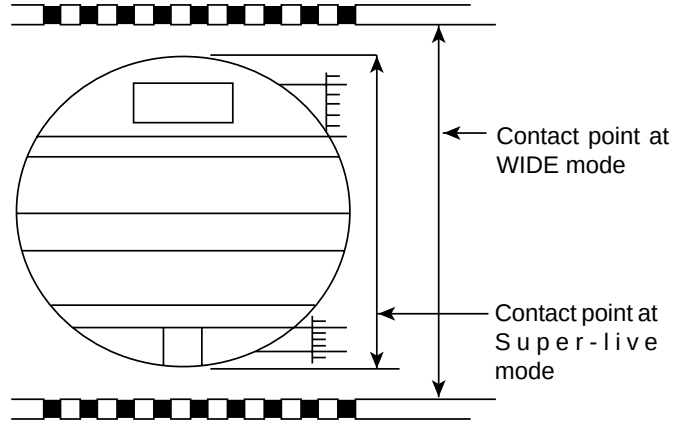
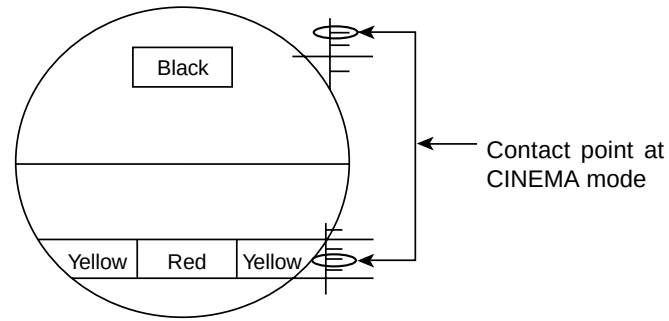
ITEM	ADJUSTMENT PROCEDURE
WHITE BALANCE ADJUSTMENT ● CUTOFF ADJUSTMENT (RCUT) (GCUT) (BCUT) ● DRIVE ADJUSTMENT (GDRV) (BDRV)	1. Set Contrast to 40, and brightness to +20 by picture control. 2. Set the TV in service mode, and get the inside W/B adjusting signal with VIDEO button. 3. Select RCUT, GCUT and BCUT with CHANNEL ▲, ▼ buttons, to set individual values to Initial reference data, and to set GDRV and BDRV to Initial reference data with VOLUME ◿ – /+ buttons (See page 18). 4. Press -/- - button on the remote control and rotate Screen VR to get one slight horizontal line on screen. Note: Every pressing of -/- - button provides Horizontal line picture and Normal picture alternately. 5. Press -/- - button to release horizontal line picture, and select the two other colors which did not light in the above step with CHANNEL ▲, ▼ buttons. Then tap VOLUME ◿ – /+ buttons so that three colors slightly light in the same level. ※ To correct white balance in light area, select GDRV and BDRV with CHANNEL ▲, ▼ buttons to adjust. ※ To correct white balance in dark area, perform fine adjustment of RCUT, GCUT and BCUT. 

(Reference Factory Adjustments)

Items	Names	Settings (User control)	Input signals	Measuring points	Adjusting methods	Adjusting standards
[SCNT]	Sub-contrast	PICTURE MODE-1 Screen size: WIDE Audio system: I	Sub-bright signal (PAL-I Signal)	TP46B	① Adjust the amplitude from the pedestal level to the white peak.	2.4 ± 0.1 Vp-p
[BRTC]	Sub-bright Center	PICTURE MODE-1 Screen size: WIDE	Sub-bright Signal	Screen adjust-ment	① Adjust the number of collapsed black lines of the sub-bright signal. ② Adjust this after adjusting W/B, [SCNT].	4±1.5 pieces Screen adjustment
[COLP]	Sub-color center PAL	PICTURE MODE-1 Screen size: WIDE	Sub-bright Signal (PAL)	TP46B	① Adjust the amplitude of B-Y. (Apply Y mute at the time of adjustment)	1.2 ± 0.1 Vo-p
SCREEN VR [RCUT] [GCUT] [BCUT] [GDRV] [BDRV]	R Cutoff G Cutoff B Cutoff G Drive B Drive	PICTURE MODE-1 Screen size: WIDE [RCUT]: 40H [GCUT]: 40H [BCUT]: 40H [GDRV]: 35H [BDRV]: 35H		Screen adjustment	① Enter Horizontal Straight-line Mode. ② Gradually increase the screen VR until R, G, or B line starts to light up slightly. ③ Determine this location as the adjusting position of the screen VR. ④ Gradually raise the respective lines other than the line that glimmered in ② above and stop at the location where each of them glimmers. (Adjust so that it will become almost white) ⑤ Escape from horizontal straight-line mode. ⑥ Use the CA100 and adjust repeatedly so that both the dark and bright areas will come to correct values.	Bright part (103cd/m^2) 8750K-0.002uv Dark part (17cd/m^2) 8750K-0.002uv Screen judgment (CA100)

Items	Names	Settings (User control)	Input signals	Measuring points	Adjusting methods	Adjusting standards
[SBY]	SECAM B-Y Black level		SECAM Color bar	TP01	① Vary [SBY] so that the level of black and white signal areas will be aligned with that of BLK.	0 ± 10 mV
[SRY]	SECAM R-Y Black level		SECAM Color bar	TP02	① Vary [SRY] so that the level of black and white signal areas will be aligned with that of H. BLK.	0 ± 10 mV
[COLS]	Sub-color Center SECAM	PICTURE MODE-1 Screen size: WIDE	SECAM Color bar	TP46B	① Adjust the amplitude of B-Y. (Apply Y mute at the time of adjustment)	1.6 ± 0.1 Vo-p (Pedestal to Peak)

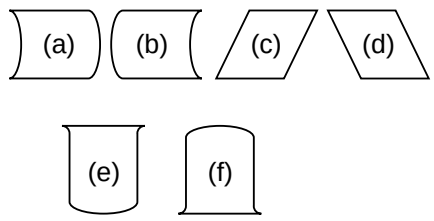
1. Data adjustment

	Adjusting items	Adjusting methods	
Vertical	WIDE mode Vertical amplitude [HIT] Vertical position [VPS1]	PAL WG Philips Pattern, User Adjustment Standard Adjust the vertical amplitude by [HIT] so that the top-and-bottom flags will be hidden. PAL Philips Pattern, User Adjustment Standard Adjust the vertical position [VPS1] so that the vertical screen position will come to the center in Philips Pattern. (See the figure on the right)	
	Super-live mode Vertical amplitude [HIT]	PAL Philips Pattern, User Adjustment Standard Adjust the vertical amplitude position by [HIT] so that the top and bottom of the circle will contact the CPT mask in Philips Pattern. (See the figure on the right)	
	CINEMA mode Vertical amplitude [HIT]	Philips Pattern, User Adjustment Standard Adjust the vertical amplitude by [HIT] so that point shown in the lower right will contact the CRT mask. (See the figure on the right)	

2. Circuit adjustment (Volume/data adjustment)

No.	Target model names	Adjusting items	Adjusting methods
1	36ZP18P 32ZP18P	Focus adjustment (1) FOCUS VR	Conditions: PAL Retoma signal, User Adjustment Standard Adjustment: Use the focus volume of the focus block (T461), and set it to the most counterclockwise position where the lateral fly-back lines of the screen center become minimized.
		Focus adjustment (2) R950	Conditions: PAL Retoma signal WIDE mode, User adjustment standard Adjustment: Use the sub-focus volume (R950) on the CRT-drive printed circuit board, and set it to the position where the longitudinal fly-back lines of the corner area become minimized. Repeat Items 1 and 2 above for adjustment to optimize the entire screen.
2	36ZP18P 32ZP18P	Adjustment of vertical position	Conditions: PAL WG Philips Pattern WIDE mode, User Adjustment Standard Adjustment: Use [VPS1] and adjust so that the top and bottom positions will contact the mask. (Adjust with the direction of CPT either facing south or north. If it is impossible to do so, offset the difference.)

3. Data Adjustment

	Adjustment items	Adjustment methods
Horizontal	WIDE mode	Use PAL WG Philips Pattern and adjust the horizontal amplitude so that the mask will be adjusted to the frame of the left and right flag sections at WIDE mode. Use [WID].
	Horizontal phase: [HPOS] Horizontal amplitude: [WID] Side DPC: [PARA] Trapezoidal distortion: [TRAP] Corner distortion: [CNR] Center distortion: [CPAR] Parallelogram distortion: [CSAW] DPCS letter distortion: [HSC]	Use PAL WG Philips Pattern and adjust by [PARA] and [TRAP] so that the side pin distortion and trapezoidal distortion will be optimized at WIDE mode. As for the horizontal screen position, use horizontal phase [HPOS] and adjust so that the position will come to the center. • **Note:** If the distortion adjustment by [PARA] and [TRAP] was insufficient, use the DATA of [CNR], [CPAR], [CSAW], and [HSC] for adjustment. ① When the distortion occurs as shown in Fig. (a), decrease [CPAR]. On the contrary, increase [CPAR] for the distortion of Fig. (b). ② When the distortion occurs as shown in Fig. (c), decrease [CSAW]. On the contrary, increase [CSAW] for the distortion of Fig. (d). ③ When the distortion occurs as shown in Fig. (e), decrease [HSC]. On the contrary, increase [HSC] for the distortion of Fig. (f). 
	Super-live mode Horizontal amplitude: [WID] Side DPC: [PARA] Trapezoidal distortion: [TRAP] Horizontal phase [HPOS] DPCS letter distortion: [HSC] Corner distortion: [CNR]	Use PAL Philips Pattern and adjust the frame of the left and right flag sections to the mask at Super-live mode. Adjust so that the side pin distortion and trapezoidal distortion will be optimized. If further adjustment is required, use horizontal phase [HPOS], corner distortion [CNR], and DPCS letter distortion [HSC] for adjustment.
	CINEMA mode Horizontal amplitude: [WID] Side DPC: [PARA] Trapezoidal distortion: [TRAP] Horizontal phase: [HPOS] DPCS letter distortion: [HSC] Corner distortion: [CNR]	Use PAL Philips Pattern and adjust the horizontal amplitude so that the mask will be adjusted to the frame of left and right flag sections at CINEMA mode. Adjust so that the side pin distortion and trapezoidal distortion will be optimized. If further adjustment is required, use horizontal phase [HPOS], corner distortion [CNR], and DPCS letter distortion [HSC] for adjustment.

CIRCUIT CHECK

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis. Checking should be done following the steps below.

1. Connect an accurate high voltage meter to the second anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST controls to minimum (zero beam current).
3. High voltage must be measured below (B) kV.

Refer to table-1 for high voltage (B).
(See SETTING & ADJUSTING DATA on page 18)

4. Vary the BRIGHTNESS control to both extremes to be sure the high voltage does not exceed the limit under any conditions.

CHAPTER 2 SPECIFIC INFORMATIONS

SETTING & ADJUSTING DATA

【SAFETY INSTRUCTIONS】

		32”	36"
HIGH VOLTAGE AT ZERO BEAM:	(A)	33.4 kV	33.4 kV
MAX HIGH VOLTAGE:	(B)	35.0 kV	35.0 kV
AV VOLTAGE	(C)	220~240 V	220~240 V

Table-1

【SERVICE MODE】

ADJUSTING ITEMS AND DATAS IN THE SERVICE MODE:

Item	Adjustment	Reference data
RCUT	R CUTOFF	40H
GCUT	G CUTOFF	40H
BCUT	B CUTOFF	40H
GDRV	R DRIVE	35H
BDRV	B DRIVE	35H
BRTC	SUB BRIGHT CEN	80H
COLP	SUB COLOR CEN PAL	3DH
COLS	SUB COLOR CEN SECAM	3DH
SCNT	SUB CONTRAST	08H
SRY	SECAM R-Y	07H
SBY	SECAM B-Y	01H

Item	Adjustment	Reference data
HPOS	50Hz H-POSITION	67H
VPOS	V-POSITION	00H
HIT	HEIGHT	29H
VLIN	V-LINEARITY	0FH
VSC	V-S CORRECTION	2CH
VPS2	V-SHIFT	40H
WID	PICTURE WIDTH	1FH
PARA	E-W PARABOLA	09H
CNR	E-W CORNER	11H
TRAP	TRAPEZIUM	4FH
VFC	V-F CORRECTION	0FH

Table-2

【DESIGN MODE】

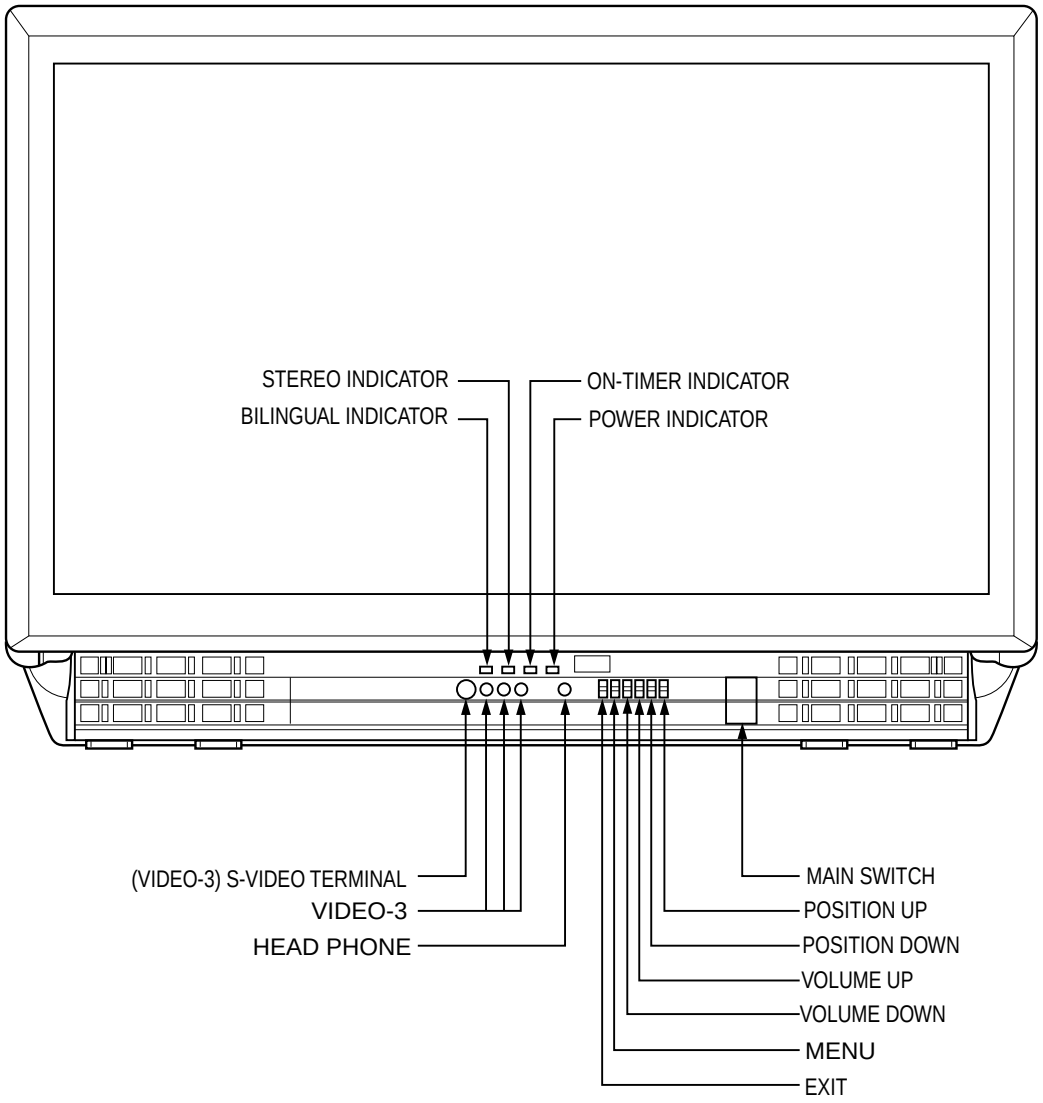
ADJUSTING ITEMS AND DATAS IN THE DESIGN MODE:

Item	Name of adjustment		Data	Remarks
		Preset Data		
* There are no adjusting item in the DESIGN MODE.				

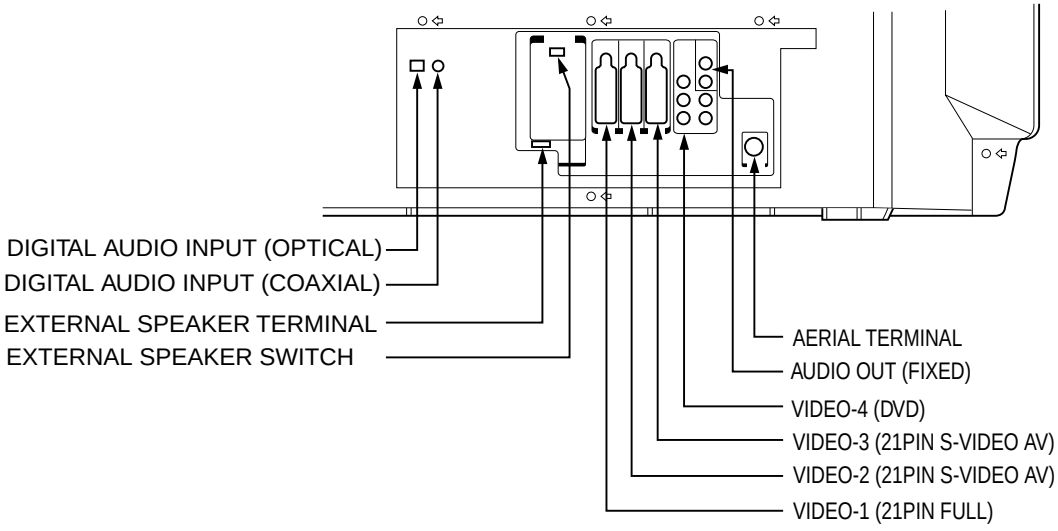
Table-3

LOCATION OF CONTROLS (Representaive: 36ZP18P)

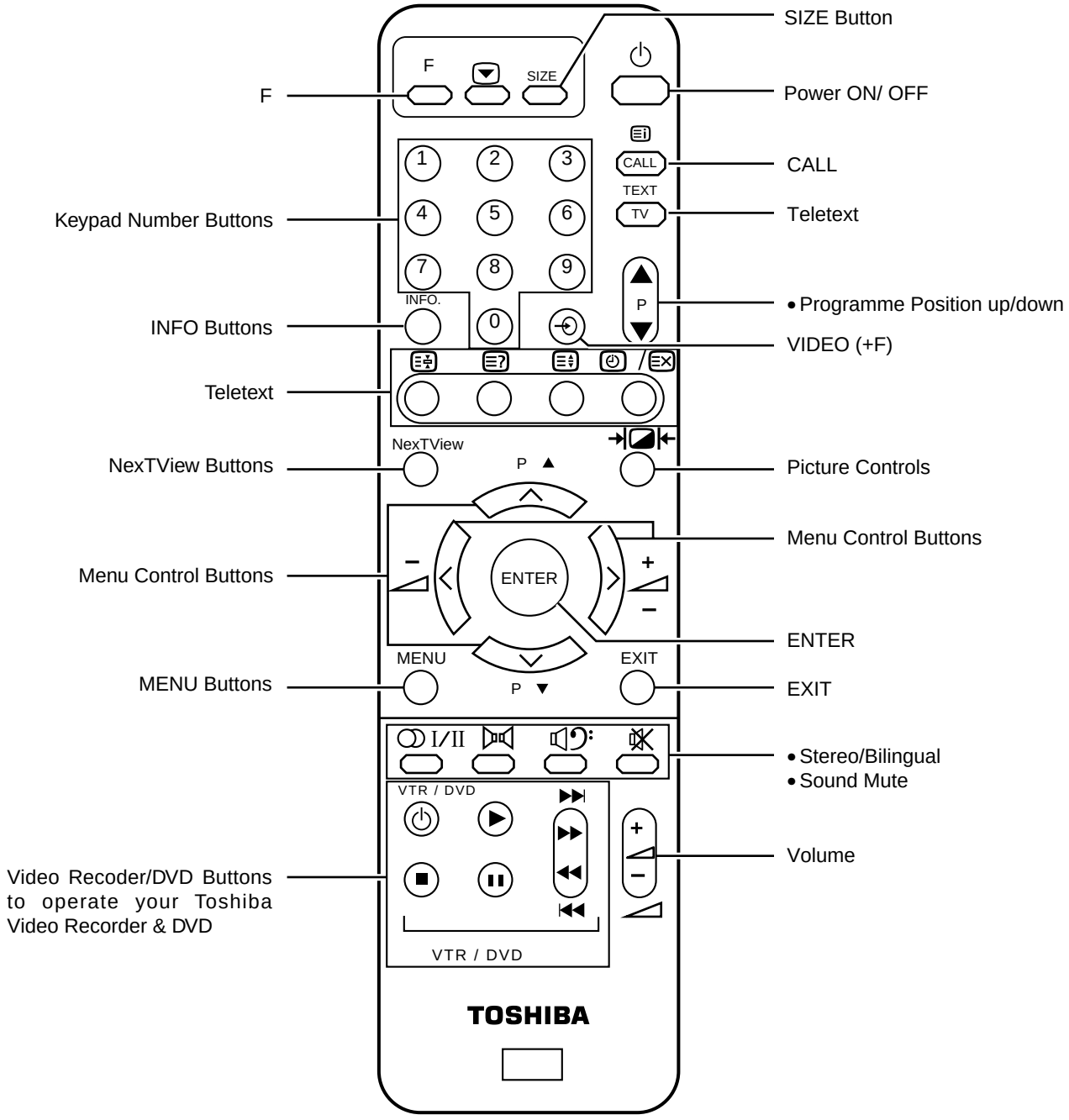
Front



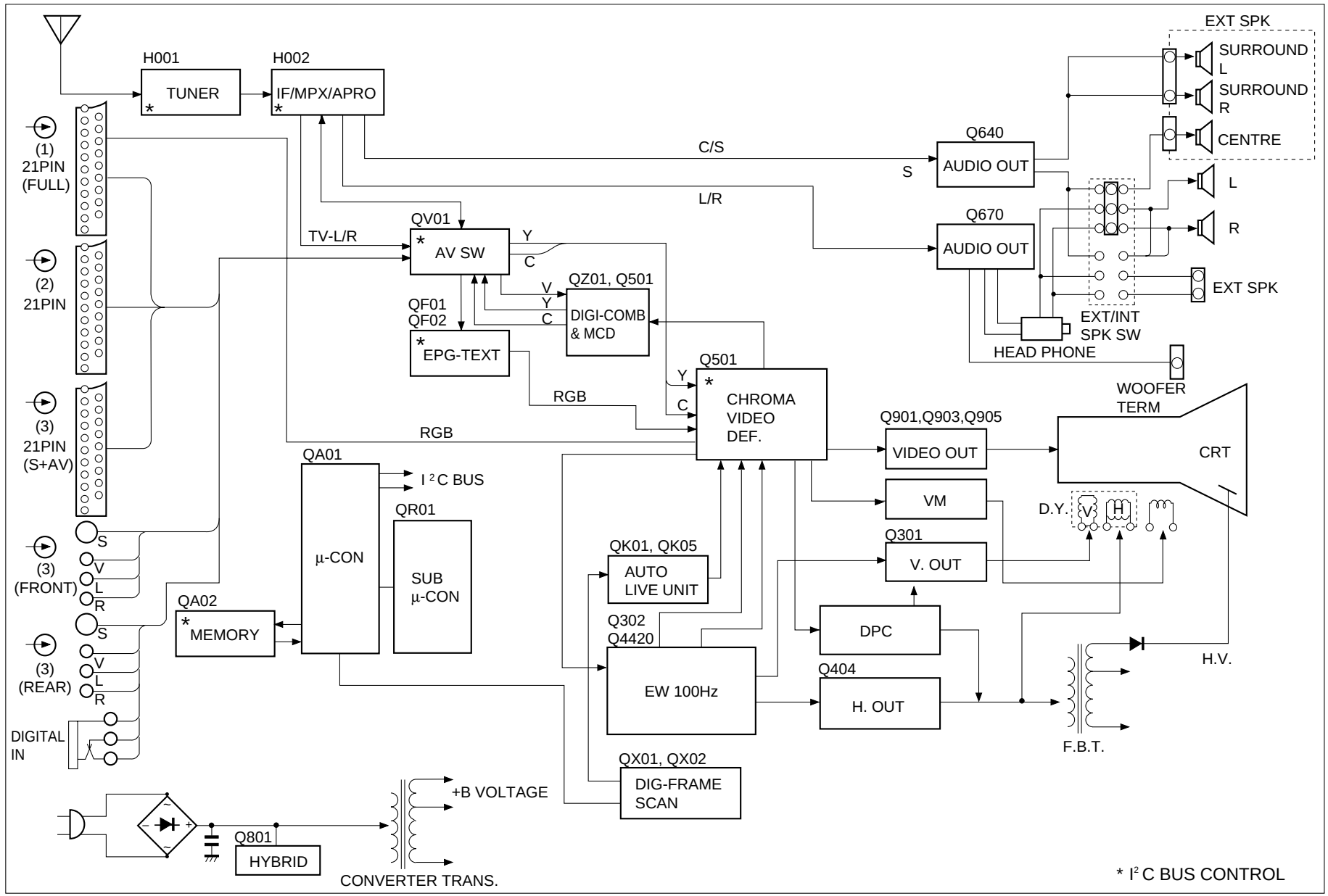
Rear terminals



Remote Controller



CIRCUIT BLOCK DIAGRAM



CHASSIS AND CABINET REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE. Do not degrade the safety of the receiver through improper servicing.

NOTICE:

- *The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.*
- *The PC board assembly with ∗ mark is no longer available after the end of the production.*

Models : 36ZP18P, 32ZP18P

Capacitors	CD	: Ceramic Disk	PF	: Plastic Film	EL	: Electrolytic
Resistors	CF	: Carbon Film	CC	: Carbon Composition	MF	: Metal Film
	OMF	: Oxide Metal Film	VR	: Variable Resistor	FR	: Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Part No.	Description
CAPACITORS		
C102	24763221	EL, 220μF, ±20%, 16V
C105	24212102	CD, 1000pF, ±10%
C106	24797100	EL, 10μF, ±20%, 50V
C108	24794221	EL, 220μF, ±20%, 16V
C109	24232103	CD, 0.01μF, +80%, -20%
C110	24797479	EL, 4.7μF, ±20%, 50V
C111	24797220	EL, 22μF, ±20%, 50V
C115	24232103	CD, 0.01μF, +80%, -20%
C201	24567104	PF, 0.1μF
C202	24232103	CD, 0.01μF, +80%, -20%
C203	24567104	PF, 0.1μF
C204	24797010	EL, 1μF, ±20%, 50V
C205	24797229	EL, 2.2μF, ±20%, 50V
C206	24797220	EL, 22μF, ±20%, 50V
C214	24567334	PF, 0.33μF
C215	24436101	CD, 100pF
C219	24436100	CD, 10pF, ±0.25pF
C220	24436100	CD, 10pF, ±0.25pF
C221	24436100	CD, 10pF, ±0.25pF
C229	24092398	CD, 0.1μF, +80%, -20%, 25V
C230	24232103	CD, 0.01μF, +80%, -20%
C232	24092398	CD, 0.1μF, +80%, -20%, 25V
C261	24794101	EL, 100μF, ±20%, 16V
C262	24232103	CD, 0.01μF, +80%, -20%
C263	24794470	EL, 47μF, ±20%, 16V
C264	24794100	EL, 10μF, ±20%, 16V
C302	24214471	CD, 470pF, ±10%, 500V
C303	24214471	CD, 470pF, ±10%, 500V
C305	24795222	EL, 2200μF, ±20%, 25V
C308	24669221	EL, 220μF, ±20%, 50V
C309	24590102	PF, 1000pF
C310	24795222	EL, 2200μF, ±20%, 25V
C313	24082057	PF, 0.22μF, 100V
C315	24797478	EL, 0.47μF, ±20%, 50V
C316	24795221	EL, 220μF, ±20%, 25V
C317	24214561	CD, 560pF, ±10%, 500V
C318	24794471	EL, 470μF, ±20%, 16V
C320	24795221	EL, 220μF, ±20%, 25V
C321	24567224	PF, 0.22μF
C322	24617915	EL, 1μF, ±10%, 50V

Location No.	Part No.	Description
C323	24567474	PF, 0.47μF
C325	24590223	PF, 0.022μF
C326	24797010	EL, 1μF, ±20%, 50V
C327	24794471	EL, 470μF, ±20%, 16V
C329	24567224	PF, 0.22μF
C331	24590563	PF, 0.056μF
C332	24212102	CD, 1000pF, ±10%
C341	24567474	PF, 0.47μF
C366	24082049	PF, 0.047μF, 100V
C370	24794100	EL, 10μF, ±20%, 16V
C371	24797100	EL, 10μF, ±20%, 50V
C372	24797470	EL, 47μF, ±20%, 50V
C373	24797470	EL, 47μF, ±20%, 50V
⚠ C400	24082895	CR Block, TPA5008
C401	24232103	CD, 0.01μF, +80%, -20%
C403	24590223	PF, 0.022μF
C404	24797229	EL, 2.2μF, ±20%, 50V
C410	24092341	CD, 470pF, ±10%, 2kV
C413	24214332	CD, 3300pF, ±10%, 500V
C416	24668101	EL, 100μF, ±20%, 35V
C417	24214391	CD, 390pF, ±10%, 500V
C419	24212102	CD, 1000pF, ±10%
C420	24794101	EL, 100μF, ±20%, 16V
C421	24567104	PF, 0.1μF
C423	24829433	PF, 0.043μF, 400V (36ZP18P)
C423	24829393	PF, 0.039μF, 400V (32ZP18P)
C424	24794101	EL, 100μF, ±20%, 16V
C425	24794101	EL, 100μF, ±20%, 16V
C430	24232103	CD, 0.01μF, +80%, -20%
C430	24820822	PF, 8200pF, 630V (36ZP18P)
C430	24820392	PF, 0.0036μF, 630V (32ZP18P)
C431	24232103	CD, 0.01μF, +80%, -20%
C431	24794101	EL, 100μF, ±20%, 16V
C440	24082943	PF, 3600pF, ±3%, 1500V
C442	24829623	PF, 0.063μF, 400V (36ZP18P)
C442	24082637	PF, 0.1μF, 400V (32ZP18P)
C443	24829623	PF, 0.063μF, 400V (36ZP18P)
C443	24829183	PF, 0.018μF, 400V (32ZP18P)
C444	24082834	PF, 4300pF, ±3%, 1800V (36ZP18P)

Location No.	Part No.	Description
C444	24082606	PF, 3900pF, ±3%, 1800V (32ZP18P)
C445	24828473	PF, 0.047μF, 200V
C446	24679330	EL, 33μF, ±20%, 250V
C447	24829273	PF, 0.027μF, 400V (36ZP18P)
C447	24829153	PF, 0.015μF, 400V (32ZP18P)
C448	24640908	EL, 33μF, ±20%, 160V
C460	24073092	EL, 330μF, ±20%, 50V
C462	24794222	EL, 2200μF, ±20%, 16V
C463	24212392	CD, 3900pF, ±10%
C464	24640872	EL, 10μF, ±20%, 100V
C466	24082409	PF, 4300pF, ±3%, 1250V (32ZP18P)
C470	24794470	EL, 47μF, ±20%, 16V
C471	24590473	PF, 0.047μF
C472	24567474	PF, 0.47μF
C473	24669010	EL, 1μF, ±20%, 50V
C475	24829273	PF, 0.027μF, 400V (36ZP18P)
C475	24829473	PF, 0.047μF, 400V (32ZP18P)
C476	24794220	EL, 22μF, ±20%, 16V
C479	24214471	CD, 470pF, ±10%, 500V
C481	24085988	EL, 1.0μF, ±20%, 50V, Non-Polar
C482	24212152	CD, 1500pF, ±10%
C495	24092343	CD, 680pF, ±10%, 2kV
C496	24092343	CD, 680pF, ±10%, 2kV
C501	24092293	Chip, 0.1μF, +80%, -20%, 25V
C502	24092293	Chip, 0.1μF, +80%, -20%, 25V
C502	24232103	CD, 0.01μF, +80%, -20%
C503	24794221	EL, 220μF, ±20%, 16V
C503	24794470	EL, 47μF, ±20%, 16V
C504	24814103	Chip, 0.01μF, +80%, -20%
C505	24794470	EL, 47μF, ±20%, 16V
C506	24814103	Chip, 0.01μF, +80%, -20%
C507	24092293	Chip, 0.1μF, +80%, -20%, 25V
C508	24092293	Chip, 0.1μF, +80%, -20%, 25V
C508	24797010	EL, 1μF, ±20%, 50V
C509	24092293	Chip, 0.1μF, +80%, -20%, 25V
C509	24794101	EL, 100μF, ±20%, 16V
C510	24794101	EL, 100μF, ±20%, 16V
C510	24797479	EL, 4.7μF, ±20%, 50V
C511	24092293	Chip, 0.1μF, +80%, -20%, 25V
C511	24232103	CD, 0.01μF, +80%, -20%
C512	24092293	Chip, 0.1μF, +80%, -20%, 25V
C513	24092293	Chip, 0.1μF, +80%, -20%, 25V
C513	24232103	CD, 0.01μF, +80%, -20%
C514	24567104	PF, 0.1μF
C514	24794470	EL, 47μF, ±20%, 16V
C515	24567104	PF, 0.1μF
C515	24814103	Chip, 0.01μF, +80%, -20%
C516	24774100	Chip, 10pF, ±0.5pF, CH
C517	24797478	EL, 0.47μF, ±20%, 50V
C518	24436101	CD, 100pF
C518	24814103	Chip, 0.01μF, +80%, -20%
C519	24092293	Chip, 0.1μF, +80%, -20%, 25V
C520	24212102	CD, 1000pF, ±10%
C520	24797229	EL, 2.2μF, ±20%, 50V
C521	24212102	CD, 1000pF, ±10%
C521	24567223	PF, 0.022μF
C522	24814103	Chip, 0.01μF, +80%, -20%
C525	24567104	PF, 0.1μF
C555	24092398	CD, 0.1μF, +80%, -20%, 25V
C556	24797010	EL, 1μF, ±20%, 50V
C608	24762222	EL, 2200μF, ±20%, 10V

Location No.	Part No.	Description
C613	24794471	EL, 470μF, ±20%, 16V
C615	24085945	EL, 2.2μF, ±20%, 50V, Non-Polar
C616	24590183	PF, 0.018μF
C617	24590122	PF, 1200pF
C618	24590563	PF, 0.056μF
C619	24794221	EL, 220μF, ±20%, 16V
C620	24794101	EL, 100μF, ±20%, 16V
C631	24797010	EL, 1μF, ±20%, 50V
C632	24797479	EL, 4.7μF, ±20%, 50V
C633	24591124	PF, 0.12μF
C634	24668471	EL, 470μF, ±20%, 35V
C641	24669010	EL, 1μF, ±20%, 50V
C644	24797010	EL, 1μF, ±20%, 50V
C645	24795470	EL, 47μF, ±20%, 25V
C647	24591102	PF, 1000pF
C648	24591102	PF, 1000pF
C649	24797229	EL, 2.2μF, ±20%, 50V
C650	24668102	EL, 1000μF, ±20%, 35V
C651	24668471	EL, 470μF, ±20%, 35V
C652	24668471	EL, 470μF, ±20%, 35V
C654	24591124	PF, 0.12μF
C655	24591124	PF, 0.12μF
C656	24232103	CD, 0.01μF, +80%, -20%
C657	24797229	EL, 2.2μF, ±20%, 50V
C660	24797229	EL, 2.2μF, ±20%, 50V
C661	24797478	EL, 0.47μF, ±20%, 50V
C662	24797229	EL, 2.2μF, ±20%, 50V
C663	24797229	EL, 2.2μF, ±20%, 50V
C664	24794100	EL, 10μF, ±20%, 16V
C665	24797229	EL, 2.2μF, ±20%, 50V
C666	24797229	EL, 2.2μF, ±20%, 50V
C667	24212102	CD, 1000pF, ±10%
C667	24797229	EL, 2.2μF, ±20%, 50V
C668	24212102	CD, 1000pF, ±10%
C668	24590102	PF, 1000pF
C669	24797330	EL, 33μF, ±20%, 50V
C670	24797330	EL, 33μF, ±20%, 50V
C671	24797010	EL, 1μF, ±20%, 50V
C673	24797010	EL, 1μF, ±20%, 50V
C674	24797010	EL, 1μF, ±20%, 50V
C675	24795470	EL, 47μF, ±20%, 25V
C676	24797479	EL, 4.7μF, ±20%, 50V
C677	24590471	PF, 470pF
C678	24590471	PF, 470pF
C679	24591473	PF, 0.047μF
C680	24668102	EL, 1000μF, ±20%, 35V
C681	24668471	EL, 470μF, ±20%, 35V
C682	24668471	EL, 470μF, ±20%, 35V
C683	24668102	EL, 1000μF, ±20%, 35V
C685	24591124	PF, 0.12μF
C686	24591124	PF, 0.12μF
C687	24232103	CD, 0.01μF, +80%, -20%
C688	24794220	EL, 22μF, ±20%, 16V
C689	24591124	PF, 0.12μF
C690	24590183	PF, 0.018μF
C691	24590183	PF, 0.018μF
C699	24474102	CD, 1000pF, ±10%
C704	24591822	PF, 8200pF
C705	24797229	EL, 2.2μF, ±20%, 50V
C707	24794470	EL, 47μF, ±20%, 16V
C712	24794470	EL, 47μF, ±20%, 16V
C713	24790100	EL, 10μF, ±20%, 160V
C715	24214472	CD, 4700pF, ±10%, 500V

Location No.	Part No.	Description
C717	24214472	CD, 4700pF, ±10%, 500V
C718	24794470	EL, 47μF, ±20%, 16V
C719	24435151	CD, 150pF, 500V
C720	24790100	EL, 10μF, ±20%, 160V
C721	24794470	EL, 47μF, ±20%, 16V
⚠C801	24503054	PF, 0.1μF, ±20%, 275V
⚠C802	24503054	PF, 0.1μF, ±20%, 275V
C805	24092281	CD, 4700pF, ±20%, AC250V
C806	24092281	CD, 4700pF, ±20%, AC250V
C808	24667221	EL, 220μF, ±20%, 25V
C810	24763102	EL, 1000μF, ±20%, 16V
⚠C813	24092555	CD, 1000pF, ±20%, AC250V
⚠C814	24092555	CD, 1000pF, ±20%, AC250V
C817	24092339	CD, 330pF, ±10%, 2kV
C818	24095931	PF, 2200pF, 1250V
C819	24676220	EL, 22μF, ±20%, 100V
C821	24214471	CD, 470pF, ±10%, 500V
C822	24567474	PF, 0.47μF
C823	24214471	CD, 470pF, ±10%, 500V
C829	24590332	PF, 3300pF
C831	24794470	EL, 47μF, ±20%, 16V
C832	24794470	EL, 47μF, ±20%, 16V
C833	24669100	EL, 10μF, ±20%, 50V
C834	24795100	EL, 10μF, ±20%, 25V
C835	24794470	EL, 47μF, ±20%, 16V
C836	24794470	EL, 47μF, ±20%, 16V
C841	24669100	EL, 10μF, ±20%, 50V
C842	24669100	EL, 10μF, ±20%, 50V
C843	24567104	PF, 0.1μF
C846	24567224	PF, 0.22μF
C872	24669221	EL, 220μF, ±20%, 50V
C884	24086916	EL, 330μF, ±20%, 160V
C885	24214471	CD, 470pF, ±10%, 500V
C887	24214471	CD, 470pF, ±10%, 500V
C889	24669102	EL, 1000μF, ±20%, 50V
C890	24667222	EL, 2200μF, ±20%, 25V
C891	24667332	EL, 3300μF, ±20%, 25V
C892	24667222	EL, 2200μF, ±20%, 25V
C893	24092337	CD, 220pF, ±10%, 2kV
C894	24669102	EL, 1000μF, ±20%, 50V
C895	24669470	EL, 47μF, ±20%, 50V
C896	24214471	CD, 470pF, ±10%, 500V
C897	24667332	EL, 3300μF, ±20%, 25V
C898	24567224	PF, 0.22μF
C899	24214471	CD, 470pF, ±10%, 500V
C902	24092345	CD, 1000pF, ±10%, 2kV
C904	24436471	CD, 470pF
C905	24436471	CD, 470pF
C907	24436471	CD, 470pF
C909	24679330	EL, 33μF, ±20%, 250V
C910	24797478	EL, 0.47μF, ±20%, 50V
C911	24203100	EL, 10μF, ±20%, 16V
C912	24794102	EL, 1000μF, ±20%, 16V
C913	24794101	EL, 100μF, ±20%, 16V
C914	24212103	CD, 0.01μF, ±10%
C915	24092398	CD, 0.1μF, +80%, -20%, 25V
C920	24591104	PF, 0.1μF
C921	24591104	PF, 0.1μF
C930	24214101	CD, 100pF, ±10%, 500V
C931	24214101	CD, 100pF, ±10%, 500V
C940	24436390	CD, 39pF
C4376	24590103	PF, 0.01μF
C4405	24590103	PF, 0.01μF
C4408	24590103	PF, 0.01μF

Location No.	Part No.	Description
C4418	24590103	PF, 0.01μF
C4425	24797010	EL, 1μF, ±20%, 50V
C4426	24794101	EL, 100μF, ±20%, 16V
C4447	24590103	PF, 0.01μF
C4461	24503041	PF, 0.1μF, 63V (36ZP18P)
C4461	24567474	PF, 0.47μF (32ZP18P)
C4490	24082637	PF, 0.1μF, 400V (36ZP18P)
C4490	24829623	PF, 0.063μF, 400V (32ZP18P)
C4491	24082637	PF, 0.1μF, 400V
CA03	24436180	CD, 18pF
CA04	24436180	CD, 18pF
CA09	24474101	CD, 100pF, ±10%
CA10	24474101	CD, 100pF, ±10%
CA12	24212101	CD, 100pF, ±10%
CA13	24436101	CD, 100pF
CA15	24474101	CD, 100pF, ±10%
CA16	24474101	CD, 100pF, ±10%
CA17	24474101	CD, 100pF, ±10%
CA33	24232103	CD, 0.01μF, +80%, -20%
CA42	24794100	EL, 10μF, ±20%, 16V
CA43	24232103	CD, 0.01μF, +80%, -20%
CA44	24232103	CD, 0.01μF, +80%, -20%
CA68	24794100	EL, 10μF, ±20%, 16V
CA69	24232103	CD, 0.01μF, +80%, -20%
CB01	24794470	EL, 47μF, ±20%, 16V
CB02	24567104	PF, 0.1μF
CB90	24232103	CD, 0.01μF, +80%, -20%
CC01	24100103	Chip, 0.01μF, +80%, -20%
CC02	24100103	Chip, 0.01μF, +80%, -20%
CC03	24100102	Chip, 1000pF, +80%, -20%
CC04	24100102	Chip, 1000pF, +80%, -20%
CC15	24232103	CD, 0.01μF, +80%, -20%
CC17	24232103	CD, 0.01μF, +80%, -20%
CC20	24781220	Chip, 22pF, SL
CC26	24232103	CD, 0.01μF, +80%, -20%
CC27	24232103	CD, 0.01μF, +80%, -20%
CC30	24100103	Chip, 0.01μF, +80%, -20%
CC31	24109102	Chip, 1000pF, ±10%
CC32	24100103	Chip, 0.01μF, +80%, -20%
CC45	24109102	Chip, 1000pF, ±10%
CC45	24774050	Chip, 5pF, ±0.25pF, CH
CC46	24109102	Chip, 1000pF, ±10%
CC46	24774050	Chip, 5pF, ±0.25pF, CH
CC60	24109102	Chip, 1000pF, ±10%
CC61	24109102	Chip, 1000pF, ±10%
CC62	24109102	Chip, 1000pF, ±10%
CC63	24109102	Chip, 1000pF, ±10%
CC65	24109102	Chip, 1000pF, ±10%
CC66	24109102	Chip, 1000pF, ±10%
CC67	24109102	Chip, 1000pF, ±10%
CC68	24109102	Chip, 1000pF, ±10%
CC69	24109102	Chip, 1000pF, ±10%
CC70	24109102	Chip, 1000pF, ±10%
CC71	24109102	Chip, 1000pF, ±10%
CC72	24109102	Chip, 1000pF, ±10%
CC73	24109102	Chip, 1000pF, ±10%
CC74	24109102	Chip, 1000pF, ±10%
CC75	24109102	Chip, 1000pF, ±10%
CC76	24109102	Chip, 1000pF, ±10%
CC82	24108151	Chip, 150pF
CD81	24100104	Chip, 0.1μF, +80%, -20%, 25V
CD82	24203100	EL, 10μF, ±20%, 16V
CD83	24092733	Chip, 0.022μF, ±10%
CD84	24092733	Chip, 0.022μF, ±10%

Location No.	Part No.	Description
CD85	24100104	Chip, 0.1μF, +80%, -20%, 25V
CD86	24092733	Chip, 0.022μF, ±10%
CD87	24202221	EL, 220μF, ±20%, 10V
CD88	24109222	Chip, 2200pF, ±10%
CD89	24203100	EL, 10μF, ±20%, 16V
CF03	24567104	PF, 0.1μF
CF04	24766101	EL, 100μF, ±20%, 50V
CF05	24766101	EL, 100μF, ±20%, 50V
CF06	24774220	Chip, 22pF, CH
CF07	24774220	Chip, 22pF, CH
CF08	24567104	PF, 0.1μF
CF09	24567104	PF, 0.1μF
CF10	24206100	EL, 10μF, ±20%, 50V
CF11	24567104	PF, 0.1μF
CF12	24814103	Chip, 0.01μF, +80%, -20%
CF14	24814103	Chip, 0.01μF, +80%, -20%
CF16	24567224	PF, 0.22μF
CF18	24794101	EL, 100μF, ±20%, 16V
CF19	24814103	Chip, 0.01μF, +80%, -20%
CF20	24766010	EL, 1μF, ±20%, 50V
CG34	24794101	EL, 100μF, ±20%, 16V
CG35	24665470	EL, 47μF, ±20%, 10V
CR01	24797010	EL, 1μF, ±20%, 50V
CR02	24232103	CD, 0.01μF, +80%, -20%
CR09	24567104	PF, 0.1μF
CR10	24794470	EL, 47μF, ±20%, 16V
CR11	24567104	PF, 0.1μF
CR12	24567104	PF, 0.1μF
CR13	24567104	PF, 0.1μF
CR14	24567104	PF, 0.1μF
CR18	24567104	PF, 0.1μF
CR19	24567104	PF, 0.1μF
CR20	24567104	PF, 0.1μF
CS01	24085945	EL, 2.2μF, ±20%, 50V, Non-Polar
CS02	24085945	EL, 2.2μF, ±20%, 50V, Non-Polar
CS03	24797229	EL, 2.2μF, ±20%, 50V
CS04	24797229	EL, 2.2μF, ±20%, 50V
CS05	24797229	EL, 2.2μF, ±20%, 50V
CS06	24797229	EL, 2.2μF, ±20%, 50V
CS07	24797229	EL, 2.2μF, ±20%, 50V
CS08	24797229	EL, 2.2μF, ±20%, 50V
CS14	24797100	EL, 10μF, ±20%, 50V
CS15	24797100	EL, 10μF, ±20%, 50V
CS17	24794100	EL, 10μF, ±20%, 16V
CS18	24794100	EL, 10μF, ±20%, 16V
CS19	24797478	EL, 0.47μF, ±20%, 50V
CS20	24797229	EL, 2.2μF, ±20%, 50V
CS21	24797229	EL, 2.2μF, ±20%, 50V
CS22	24794100	EL, 10μF, ±20%, 16V
CS23	24794100	EL, 10μF, ±20%, 16V
CV02	24092293	Chip, 0.1μF, +80%, -20%, 25V
CV03	24092293	Chip, 0.1μF, +80%, -20%, 25V
CV04	24092293	Chip, 0.1μF, +80%, -20%, 25V
CV05	24814103	Chip, 0.01μF, +80%, -20%
CV06	24092293	Chip, 0.1μF, +80%, -20%, 25V
CV08	24666101	EL, 100μF, ±20%, 16V
CV09	24815473	Chip, 0.047μF, ±10%
CV10	24794220	EL, 22μF, ±20%, 16V
CV12	24092178	Chip, 0.1μF, ±10%, 25V
CV23	24794101	EL, 100μF, ±20%, 16V
CV24	24814103	Chip, 0.01μF, +80%, -20%
CV35	24814103	Chip, 0.01μF, +80%, -20%

Location No.	Part No.	Description
CV39	24666100	EL, 10μF, ±20%, 16V
CV40	24814103	Chip, 0.01μF, +80%, -20%
CV46	24212332	CD, 3300pF, ±10%
CV47	24212332	CD, 3300pF, ±10%
CV48	24212102	CD, 1000pF, ±10%
CV65	24794101	EL, 100μF, ±20%, 16V
CV66	24794101	EL, 100μF, ±20%, 16V
CX101	24794470	EL, 47μF, ±20%, 16V
CX102	24085981	EL, 10μF, ±20%, 16V, Non-Polar
CX104	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX105	24105330	Chip, 33pF
CX106	24105270	Chip, 27pF
CX107	24105101	Chip, 100pF
CX108	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX110	24797479	EL, 4.7μF, ±20%, 50V
CX112	24794100	EL, 10μF, ±20%, 16V
CX113	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX114	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX115	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX116	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX117	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX118	24794100	EL, 10μF, ±20%, 16V
CX119	24794100	EL, 10μF, ±20%, 16V
CX120	24794100	EL, 10μF, ±20%, 16V
CX121	24105221	Chip, 220pF
CX122	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX123	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX124	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX125	24794100	EL, 10μF, ±20%, 16V
CX126	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX128	24092538	Chip, 1μF, +80%, -20%, 10V
CX129	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX143	24085981	EL, 10μF, ±20%, 16V, Non-Polar
CX145	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX148	24105101	Chip, 100pF
CX149	24105470	Chip, 47pF
CX150	24105271	Chip, 270pF
CX151	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX152	24794100	EL, 10μF, ±20%, 16V
CX155	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX156	24794100	EL, 10μF, ±20%, 16V
CX157	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX159	24092538	Chip, 1μF, +80%, -20%, 10V
CX160	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX163	24085981	EL, 10μF, ±20%, 16V, Non-Polar
CX165	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX168	24105101	Chip, 100pF
CX169	24105470	Chip, 47pF
CX170	24105271	Chip, 270pF
CX171	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX172	24794100	EL, 10μF, ±20%, 16V
CX176	24794100	EL, 10μF, ±20%, 16V
CX177	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX179	24092538	Chip, 1μF, +80%, -20%, 10V
CX180	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX184	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX185	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX186	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX187	24794100	EL, 10μF, ±20%, 16V
CX188	24794100	EL, 10μF, ±20%, 16V
CX189	24794100	EL, 10μF, ±20%, 16V

Location No.	Part No.	Description
CX190	24105330	Chip, 33pF
CX191	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX192	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX193	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX201	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX202	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX204	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX205	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX206	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX208	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX209	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX211	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX212	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX214	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX215	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX216	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX218	24794221	EL, 220μF, ±20%, 16V
CX221	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX222	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX224	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX225	24794220	EL, 22μF, ±20%, 16V
CX226	24794101	EL, 100μF, ±20%, 16V
CX227	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX228	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX230	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX231	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX232	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX234	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX235	24797229	EL, 2.2μF, ±20%, 50V
CX236	24794101	EL, 100μF, ±20%, 16V
CX237	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX238	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX239	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX240	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX261	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX262	24105470	Chip, 47pF
CX271	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX301	24794100	EL, 10μF, ±20%, 16V
CX302	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX303	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX305	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX306	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX308	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX309	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX310	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX321	24794100	EL, 10μF, ±20%, 16V
CX323	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX326	24105680	Chip, 68pF
CX328	24105330	Chip, 33pF
CX330	24794470	EL, 47μF, ±20%, 16V
CX341	24794100	EL, 10μF, ±20%, 16V
CX343	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX346	24105181	Chip, 180pF
CX348	24105181	Chip, 180pF
CX361	24794100	EL, 10μF, ±20%, 16V
CX363	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX366	24105181	Chip, 180pF
CX368	24105181	Chip, 180pF
CX401	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX402	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX403	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX404	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX405	24794471	EL, 470μF, ±20%, 16V
CX406	24794471	EL, 470μF, ±20%, 16V

Location No.	Part No.	Description
CX407	24105220	Chip, 22pF
CX408	24105220	Chip, 22pF
CX409	24105220	Chip, 22pF
CX410	24105220	Chip, 22pF
CX411	24105220	Chip, 22pF
CX412	24105220	Chip, 22pF
CX421	24105221	Chip, 220pF
CX422	24105221	Chip, 220pF
CX423	24105221	Chip, 220pF
CX424	24105221	Chip, 220pF
CX425	24105221	Chip, 220pF
CX426	24105330	Chip, 33pF
CX427	24105221	Chip, 220pF
CX428	24105330	Chip, 33pF
CX429	24105330	Chip, 33pF
CX430	24105221	Chip, 220pF
CX431	24073020	EL, 1000μF, ±20%, 10V
CX432	24092742	Chip, 0.33μF, +80%, -20%, 10V
CX433	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX435	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX601	24794470	EL, 47μF, ±20%, 16V
CX602	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX603	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX604	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX605	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX606	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX607	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX611	24794470	EL, 47μF, ±20%, 16V
CX612	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX613	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX614	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX615	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX616	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX617	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX621	24100104	Chip, 0.1μF, +80%, -20%, 25V
CX622	24105330	Chip, 33pF
CZ01	24092293	Chip, 0.1μF, +80%, -20%, 25V
CZ02	24814103	Chip, 0.01μF, +80%, -20%
CZ03	24092442	Chip, 0.47μF, +80%, -20%, 16V
CZ05	24814103	Chip, 0.01μF, +80%, -20%
CZ07	24092293	Chip, 0.1μF, +80%, -20%, 25V
CZ09	24781220	Chip, 22pF, SL
CZ10	24781100	Chip, 10pF, ±0.5pF%, SL
CZ11	24781220	Chip, 22pF, SL
CZ12	24814103	Chip, 0.01μF, +80%, -20%
CZ13	24814103	Chip, 0.01μF, +80%, -20%
CZ14	24794100	EL, 10μF, ±20%, 16V
CZ17	24814103	Chip, 0.01μF, +80%, -20%
CZ19	24781181	Chip, 180pF, SL
CZ20	24814103	Chip, 0.01μF, +80%, -20%
CZ21	24781122	Chip, 1200pF, SL
CZ22	24794100	EL, 10μF, ±20%, 16V
CZ23	24814103	Chip, 0.01μF, +80%, -20%
CZ24	24814103	Chip, 0.01μF, +80%, -20%
CZ25	24794100	EL, 10μF, ±20%, 16V
CZ26	24814103	Chip, 0.01μF, +80%, -20%
CZ28	24814103	Chip, 0.01μF, +80%, -20%
CZ29	24814103	Chip, 0.01μF, +80%, -20%
CZ30	24794100	EL, 10μF, ±20%, 16V
CZ31	24092293	Chip, 0.1μF, +80%, -20%, 25V
CZ32	24781101	Chip, 100pF, SL
CZ33	24781270	Chip, 27pF, SL

Location No.	Part No.	Description
CZ34	24781101	Chip, 100pF, SL
CZ35	24781270	Chip, 27pF, SL
CZ37	24814103	Chip, 0.01μF, +80%, -20%
CZ45	24781100	Chip, 10pF, ±0.5pF%, SL
RESISTORS		
R101	24366101	CF, 100 ohm (36ZP18P)
R101	24366104	CF, 100k ohm (32ZP18P)
R101	24553223	OMF, 22k ohm, 1W
R102	24366103	CF, 10k ohm
R204	24366104	CF, 100k ohm
R205	24366101	CF, 100 ohm
R206	24366471	CF, 470 ohm
R208	24366103	CF, 10k ohm
R209	24366103	CF, 10k ohm
R210	24366101	CF, 100 ohm
R211	24366101	CF, 100 ohm
R211	24366473	CF, 47k ohm
R212	24366101	CF, 100 ohm
R213	24366681	CF, 680 ohm
R214	24366681	CF, 680 ohm
R215	24366681	CF, 680 ohm
R216	24366103	CF, 10k ohm
R217	24366392	CF, 3900 ohm
R218	24366101	CF, 100 ohm
R219	24366101	CF, 100 ohm
R219	24366473	CF, 47k ohm
R220	24366101	CF, 100 ohm
R223	24366472	CF, 4700 ohm
R227	24366223	CF, 22k ohm
R229	24366472	CF, 4700 ohm
R231	24366222	CF, 2200 ohm
R235	24366222	CF, 2200 ohm
R236	24366101	CF, 100 ohm
R237	24366101	CF, 100 ohm
R238	24366562	CF, 5600 ohm
R260	24366222	CF, 2200 ohm
R261	24366681	CF, 680 ohm
R262	24366102	CF, 1k ohm
R263	24366102	CF, 1k ohm
R264	24366103	CF, 10k ohm
R265	24366392	CF, 3900 ohm
R266	24366332	CF, 3300 ohm
R267	24366101	CF, 100 ohm
R269	24366391	CF, 390 ohm
R270	24366102	CF, 1k ohm
R271	24366472	CF, 4700 ohm
R271	24872103	Chip, 10k ohm, 1/16W
R272	24872103	Chip, 10k ohm, 1/16W
R301	24366102	CF, 1k ohm
R303	24321109	MF, 1 ohm, 1/2W
R305	24322109	MF, 1 ohm, 1W
R307	24366101	CF, 100 ohm
R308	24553221	OMF, 220 ohm, 1W
R312	24366153	CF, 15k ohm
R314	24366102	CF, 1k ohm
R315	24366332	CF, 3300 ohm
R315	24366474	CF, 470k ohm
R316	24366394	CF, 390k ohm
R317	24366511	CF, 510 ohm
R318	24366101	CF, 100 ohm
R319	24366101	CF, 100 ohm
R320	24366155	CF, 1.5M ohm
R322	24366102	CF, 1k ohm

Location No.	Part No.	Description
R326	24339109	MF, 1 ohm, 2W
R327	24339109	MF, 1 ohm, 2W
R330	24366822	CF, 8200 ohm
R331	24366104	CF, 100k ohm
R333	24552912	OMF, 9100 ohm, 1/2W (36ZP18P)
R333	24366512	CF, 5100 ohm (32ZP18P)
R335	24366153	CF, 15k ohm
R336	24383681	OMF, 680 ohm, 2W (36ZP18P)
R336	24382222	OMF, 2200 ohm, 1W (32ZP18P)
R338	24552332	OMF, 3300 ohm, 1/2W (36ZP18P)
R341	24366822	CF, 8200 ohm
R343	24366273	CF, 27k ohm
R360	24366223	CF, 22k ohm
R364	24366223	CF, 22k ohm
R365	24366223	CF, 22k ohm
R366	24366472	CF, 4700 ohm
R370	24366822	CF, 8200 ohm
R371	24366103	CF, 10k ohm
R373	24366103	CF, 10k ohm
R374	24366472	CF, 4700 ohm
R375	24552150	OMF, 15 ohm, 1/2W
R400	24946561	CC, 560 ohm, 1/2W
R402	24366102	CF, 1k ohm
R403	24366302	CF, 3k ohm
R405	24553682	OMF, 6800 ohm, 1W
R407	24366103	CF, 10k ohm
R411	24366180	CF, 18 ohm
R414	24531560	FR, 56 ohm, 1/2W
R415	24366101	CF, 100 ohm
R415	24553561	OMF, 560 ohm, 1W
R416	24381563	OMF, 56k ohm, 1/2W
R417	24510101	Cement, 100 ohm, 5W
R424	24366152	CF, 1500 ohm
R425	24366182	CF, 1800 ohm
R426	24366751	CF, 750 ohm
R427	24366392	CF, 3900 ohm
R428	24366561	CF, 560 ohm
R429	24552560	OMF, 56 ohm, 1/2W
R431	24366103	CF, 10k ohm
R432	24366473	CF, 47k ohm
R433	24366681	CF, 680 ohm
R434	24366472	CF, 4700 ohm
R435	24366184	CF, 180k ohm
R441	24383561	OMF, 560 ohm, 2W
R445	24321129	MF, 1.2 ohm, 1/2W
R460	24552332	OMF, 3300 ohm, 1/2W
R461	24381182	OMF, 1800 ohm, 1/2W
R462	24366333	CF, 33k ohm
R463	24323229	MF, 2.2 ohm, 2W
R464	24366273	CF, 27k ohm
R465	24366101	CF, 100 ohm
R466	24366272	CF, 2700 ohm
R467	24327224	MF, 220k ohm, ±1%, 1/4W
R469	24000211	FR, 15 ohm, 1/2W
R470	24339568	MF, 0.56 ohm, 2W
R471	24531271	FR, 270 ohm, 1/2W
R472	24366101	CF, 100 ohm
R473	24366183	CF, 18k ohm
R474	24376393	CF, 39k ohm, 1/2W
R476	24366471	CF, 470 ohm
R477	24366102	CF, 1k ohm

Location No.	Part No.	Description
R478	24381333	OMF, 33k ohm, 1/2W
R479	24531680	FR, 68 ohm, 1/2W
R480	24552222	OMF, 2200 ohm, 1/2W
R481	24366223	CF, 22k ohm (36ZP18P)
R481	24366183	CF, 18k ohm (32ZP18P)
R482	24366183	CF, 18k ohm (36ZP18P)
R482	24366103	CF, 10k ohm (32ZP18P)
R483	24366223	CF, 22k ohm (36ZP18P)
R483	24366102	CF, 1k ohm (32ZP18P)
R487	24366474	CF, 470k ohm
R488	24366154	CF, 150k ohm
R489	24366102	CF, 1k ohm
R490	24366101	CF, 100 ohm
R491	24366101	CF, 100 ohm
R492	24366472	CF, 4700 ohm
R499	24366101	CF, 100 ohm
R501	24872682	Chip, 6800 ohm, 1/16W
R502	24366101	CF, 100 ohm
R502	24872272	Chip, 2700 ohm, 1/16W
R503	24366101	CF, 100 ohm
R504	24872101	Chip, 100 ohm, 1/16W
R505	24872101	Chip, 100 ohm, 1/16W
R506	24872273	Chip, 27k ohm, 1/16W
R507	24872392	Chip, 3900 ohm, 1/16W
R512	24872102	Chip, 1k ohm, 1/16W
R513	24366472	CF, 4700 ohm
R513	24872102	Chip, 1k ohm, 1/16W
R514	24366101	CF, 100 ohm
R514	24872102	Chip, 1k ohm, 1/16W
R515	24872102	Chip, 1k ohm, 1/16W
R516	24872102	Chip, 1k ohm, 1/16W
R517	24872102	Chip, 1k ohm, 1/16W
R518	24366102	CF, 1k ohm
R518	24366681	CF, 680 ohm
R519	24872472	Chip, 4700 ohm, 1/16W
R520	24872103	Chip, 10k ohm, 1/16W
R521	24872103	Chip, 10k ohm, 1/16W
R609	24366563	CF, 56k ohm
R610	24366103	CF, 10k ohm
R611	24366103	CF, 10k ohm
R612	24366103	CF, 10k ohm
R613	24366224	CF, 220k ohm
R615	24366182	CF, 1800 ohm
R616	24366473	CF, 47k ohm
R617	24366472	CF, 4700 ohm
R618	24366223	CF, 22k ohm
R619	24366472	CF, 4700 ohm
R620	24366223	CF, 22k ohm
R621	24366273	CF, 27k ohm
R622	24366392	CF, 3900 ohm
R623	24366332	CF, 3300 ohm
R624	24366103	CF, 10k ohm
R625	24366103	CF, 10k ohm
R626	24366562	CF, 5600 ohm
R627	24366102	CF, 1k ohm
R628	24366102	CF, 1k ohm
R634	24366229	CF, 2.2 ohm
R637	24366472	CF, 4700 ohm
R639	24366223	CF, 22k ohm
R640	24366472	CF, 4700 ohm
R641	24366152	CF, 1500 ohm
R642	24366562	CF, 5600 ohm
R643	24366222	CF, 2200 ohm
R644	24366473	CF, 47k ohm

Location No.	Part No.	Description
R645	24366229	CF, 2.2 ohm
R646	24366223	CF, 22k ohm
R648	24366229	CF, 2.2 ohm
R649	24366223	CF, 22k ohm
R661	24510159	Cement, 1.5 ohm, 5W
R661	24552221	OMF, 220 ohm, 1/2W
R662	24366104	CF, 100k ohm
R662	24552221	OMF, 220 ohm, 1/2W
R670	24366222	CF, 2200 ohm
R671	24366102	CF, 1k ohm
R671	24366681	CF, 680 ohm
R672	24366102	CF, 1k ohm
R672	24366222	CF, 2200 ohm
R673	24366102	CF, 1k ohm
R673	24366681	CF, 680 ohm
R674	24366102	CF, 1k ohm
R674	24366122	CF, 1200 ohm
R675	24366102	CF, 1k ohm
R675	24366333	CF, 33k ohm
R676	24366223	CF, 22k ohm
R677	24366223	CF, 22k ohm
R682	24366104	CF, 100k ohm
R683	24366273	CF, 27k ohm
R684	24366229	CF, 2.2 ohm
R685	24366229	CF, 2.2 ohm
R686	24366222	CF, 2200 ohm
R687	24366222	CF, 2200 ohm
R688	24366222	CF, 2200 ohm
R689	24366104	CF, 100k ohm
R690	24366122	CF, 1200 ohm
R691	24366122	CF, 1200 ohm
R702	24552221	OMF, 220 ohm, 1/2W
R712	24366101	CF, 100 ohm
R715	24366223	CF, 22k ohm
R716	24366273	CF, 27k ohm
R717	24366183	CF, 18k ohm
R718	24366681	CF, 680 ohm
R722	24552471	OMF, 470 ohm, 1/2W
R723	24366101	CF, 100 ohm
R724	24366181	CF, 180 ohm
R725	24366821	CF, 820 ohm
R730	24552100	OMF, 10 ohm, 1/2W
R731	24553331	OMF, 330 ohm, 1W
R732	24366220	CF, 22 ohm
R733	24366683	CF, 68k ohm
R734	24366220	CF, 22 ohm
R735	24366683	CF, 68k ohm
R736	24366470	CF, 47 ohm
R737	24366681	CF, 680 ohm
R738	24366102	CF, 1k ohm
R739	24366681	CF, 680 ohm
R740	24366470	CF, 47 ohm
R741	24366229	CF, 2.2 ohm
R742	24366229	CF, 2.2 ohm
R743	24554181	OMF, 180 ohm, 2W
R744	24366122	CF, 1200 ohm
R745	24366122	CF, 1200 ohm
⚠R801	24009954	Metal-Glazed Resistor, 2.2M ohm, 1/2W
R803	24383333	OMF, 33k ohm, 2W
R804	24366334	CF, 330k ohm
R805	24366681	CF, 680 ohm
R807	24366334	CF, 330k ohm
R808	24019484	PTC Thermistor, 4.5 ohm

Location No.	Part No.	Description
R809	24366393	CF, 39k ohm
R810	24568159	Cement, 1.5 ohm, 7W
R814	24366682	CF, 6800 ohm
R815	24366332	CF, 3300 ohm
R818	24019460	MF, 0.1 ohm, 2W
R819	24310829	MF, 8.2 ohm, 1/2W
R821	24366101	CF, 100 ohm
R822	24552103	OMF, 10k ohm, 1/2W
R823	24552822	OMF, 8200 ohm, 1/2W
R824	24569689	Cement, 6.8 ohm, 10W
R827	24366681	CF, 680 ohm
R828	24366821	CF, 820 ohm
R829	24321338	MF, 0.33 ohm, 1/2W
R831	24366471	CF, 470 ohm
R832	24366472	CF, 4700 ohm
R833	24366222	CF, 2200 ohm
R834	24366471	CF, 470 ohm
R835	24322229	MF, 2.2 ohm, 1W
R841	24531120	FR, 12 ohm, 1/2W
R842	24552392	OMF, 3900 ohm, 1/2W
R843	24366331	CF, 330 ohm
R846	24366101	CF, 100 ohm
R847	24366472	CF, 4700 ohm
R849	24366471	CF, 470 ohm
R850	24366103	CF, 10k ohm
R851	24366102	CF, 1k ohm
R852	24366225	CF, 2.2M ohm
R865	24366332	CF, 3300 ohm
R868	24366472	CF, 4700 ohm
⚠ R899	24005015	Metal-Glazed Resistor, 8.2M ohm, 1W
R901	24376471	CF, 470 ohm, 1/2W
R902	24376471	CF, 470 ohm, 1/2W
R903	24376471	CF, 470 ohm, 1/2W
R904	24366472	CF, 4700 ohm
R905	24366150	CF, 15 ohm
R909	24366100	CF, 10 ohm
R914	24366471	CF, 470 ohm
R915	24366680	CF, 68 ohm
R916	24366270	CF, 27 ohm
R917	24366471	CF, 470 ohm
R918	24366180	CF, 18 ohm
R920	24000883	FR, 3.6 ohm, 1W
R921	24366471	CF, 470 ohm
R922	24366680	CF, 68 ohm
R924	24366180	CF, 18 ohm
R925	24366471	CF, 470 ohm
R928	24366471	CF, 470 ohm
R929	24366680	CF, 68 ohm
R930	24366180	CF, 18 ohm
R932	24366332	CF, 3300 ohm
R933	24366750	CF, 75 ohm
R934	24366361	CF, 360 ohm
R935	24366102	CF, 1k ohm
R936	24366750	CF, 75 ohm
R937	24366471	CF, 470 ohm
R939	24366680	CF, 68 ohm
R942	24366392	CF, 3900 ohm
R943	24366392	CF, 3900 ohm
R944	24366392	CF, 3900 ohm
R945	24366270	CF, 27 ohm
R946	24366270	CF, 27 ohm
R950	24060356	VR, 20M ohm, 0.6W
R960	24383153	OMF, 15k ohm, 2W

Location No.	Part No.	Description
R961	24383153	OMF, 15k ohm, 2W
R962	24383153	OMF, 15k ohm, 2W
R963	24383153	OMF, 15k ohm, 2W
R964	24383153	OMF, 15k ohm, 2W
R965	24383153	OMF, 15k ohm, 2W
R966	24383153	OMF, 15k ohm, 2W
R967	24383153	OMF, 15k ohm, 2W
R968	24383153	OMF, 15k ohm, 2W
R969	24366101	CF, 100 ohm
R970	24366101	CF, 100 ohm
R971	24366101	CF, 100 ohm
R977	24366561	CF, 560 ohm
R980	24366471	CF, 470 ohm
R981	24366471	CF, 470 ohm
R982	24366682	CF, 6800 ohm
R983	24366222	CF, 2200 ohm
R984	24366821	CF, 820 ohm
R985	24367471	CF, 470 ohm, ±2%
R986	24367681	CF, 680 ohm, ±2%
R987	24367681	CF, 680 ohm, ±2%
R988	24367472	CF, 4700 ohm, ±2%
R989	24367472	CF, 4700 ohm, ±2%
R990	24366561	CF, 560 ohm
R991	24367391	CF, 390 ohm, ±2%
R992	24366150	CF, 15 ohm
R4222	24366472	CF, 4700 ohm
R4223	24366103	CF, 10k ohm
R4224	24366272	CF, 2700 ohm
R4225	24366102	CF, 1k ohm
R4310	24366183	CF, 18k ohm
R4403	24366101	CF, 100 ohm
R4404	24366101	CF, 100 ohm
R4406	24366752	CF, 7500 ohm
R4407	24366361	CF, 360 ohm
R4410	24366103	CF, 10k ohm
R4411	24366103	CF, 10k ohm
R4416	24366101	CF, 100 ohm
R4417	24366101	CF, 100 ohm
R4418	24366102	CF, 1k ohm
R4419	24366103	CF, 10k ohm
R4425	24552471	OMF, 470 ohm, 1/2W
R4426	24366152	CF, 1500 ohm
R4460	24366102	CF, 1k ohm
R4461	24366102	CF, 1k ohm
R4462	24366133	CF, 13k ohm
R4463	24366432	CF, 4300 ohm (36ZP18P)
R4463	24366222	CF, 2200 ohm (32ZP18P)
R4464	24366223	CF, 22k ohm
R4472	24366153	CF, 15k ohm (36ZP18P)
R4472	24366562	CF, 5600 ohm (32ZP18P)
R4490	24382222	OMF, 2200 ohm, 1W
R4491	24366392	CF, 3900 ohm
R4492	24366103	CF, 10k ohm
R4493	24382104	OMF, 100k ohm, 1W
R4495	24366473	CF, 47k ohm
R4799	24366103	CF, 10k ohm
RA01	24366102	CF, 1k ohm
RA03	24366102	CF, 1k ohm
RA04	24366102	CF, 1k ohm
RA05	24366102	CF, 1k ohm
RA07	24366102	CF, 1k ohm
RA08	24366102	CF, 1k ohm
RA09	24366682	CF, 6800 ohm
RA10	24366682	CF, 6800 ohm

Location No.	Part No.	Description
RA11	24366331	CF, 330 ohm
RA12	24366331	CF, 330 ohm
RA13	24366153	CF, 15k ohm
RA14	24366103	CF, 10k ohm
RA16	24366102	CF, 1k ohm
RA17	24366102	CF, 1k ohm
RA18	24366102	CF, 1k ohm
RA19	24366331	CF, 330 ohm
RA20	24366331	CF, 330 ohm
RA21	24366331	CF, 330 ohm
RA22	24366331	CF, 330 ohm
RA23	24366472	CF, 4700 ohm
RA24	24366472	CF, 4700 ohm
RA25	24366103	CF, 10k ohm
RA26	24366102	CF, 1k ohm
RA27	24366102	CF, 1k ohm
RA29	24366102	CF, 1k ohm
RA29	24366104	CF, 100k ohm
RA30	24366102	CF, 1k ohm
RA30	24366103	CF, 10k ohm
RA31	24366561	CF, 560 ohm
RA33	24366103	CF, 10k ohm
RA35	24366102	CF, 1k ohm
RA37	24366101	CF, 100 ohm
RA38	24366101	CF, 100 ohm
RA40	24366331	CF, 330 ohm
RA41	24366273	CF, 27k ohm
RA43	24366102	CF, 1k ohm
RA44	24366103	CF, 10k ohm
RA62	24366102	CF, 1k ohm
RA63	24366102	CF, 1k ohm
RA65	24366103	CF, 10k ohm
RA66	24366103	CF, 10k ohm
RA67	24366472	CF, 4700 ohm
RA68	24366472	CF, 4700 ohm
RA70	24366333	CF, 33k ohm
RA71	24366683	CF, 68k ohm
RA72	24366223	CF, 22k ohm
RA73	24366103	CF, 10k ohm
RA75	24366333	CF, 33k ohm
RA76	24366103	CF, 10k ohm
RA77	24366223	CF, 22k ohm
RA78	24366102	CF, 1k ohm
RA78	24366683	CF, 68k ohm
RA80	24366331	CF, 330 ohm
RA81	24366331	CF, 330 ohm
RA85	24366102	CF, 1k ohm
RA89	24366152	CF, 1500 ohm
RB01	24366271	CF, 270 ohm
RB02	24366271	CF, 270 ohm
RB03	24366101	CF, 100 ohm
RB04	24366223	CF, 22k ohm
RB05	24366223	CF, 22k ohm
RB07	24366271	CF, 270 ohm
RB08	24366271	CF, 270 ohm
RB09	24366470	CF, 47 ohm
RB10	24366101	CF, 100 ohm
RB11	24366103	CF, 10k ohm
RB30	24366103	CF, 10k ohm
RB43	24366103	CF, 10k ohm
RB44	24366103	CF, 10k ohm
RB45	24366101	CF, 100 ohm
RB81	24366122	CF, 1200 ohm
RB82	24366123	CF, 12k ohm

Location No.	Part No.	Description
RB83	24366123	CF, 12k ohm
RB84	24366562	CF, 5600 ohm
RB90	24366392	CF, 3900 ohm
RB91	24366473	CF, 47k ohm
RB92	24366271	CF, 270 ohm
RB93	24366271	CF, 270 ohm
RB94	24366222	CF, 2200 ohm
RB95	24366222	CF, 2200 ohm
RB96	24366273	CF, 27k ohm
RB97	24366273	CF, 27k ohm
RB98	24366102	CF, 1k ohm
RC01	24000824	Chip, Jumper, 2125 type
RC02	24000824	Chip, Jumper, 2125 type
RC60	24011681	Chip, 680 ohm, 1/20W
RC61	24011681	Chip, 680 ohm, 1/20W
RC62	24011681	Chip, 680 ohm, 1/20W
RC63	24011681	Chip, 680 ohm, 1/20W
RC65	24011681	Chip, 680 ohm, 1/20W
RC66	24011681	Chip, 680 ohm, 1/20W
RC67	24011681	Chip, 680 ohm, 1/20W
RC68	24011681	Chip, 680 ohm, 1/20W
RD06	24366102	CF, 1k ohm
RD08	24366102	CF, 1k ohm
RD10	24366102	CF, 1k ohm
RD16	24366333	CF, 33k ohm
RD28	24366102	CF, 1k ohm
RD81	24872151	Chip, 150 ohm, 1/16W
RD82	24872561	Chip, 560 ohm, 1/16W
RD83	24872151	Chip, 150 ohm, 1/16W
RD84	24872103	Chip, 10k ohm, 1/16W
RD85	24872103	Chip, 10k ohm, 1/16W
RD86	24872223	Chip, 22k ohm, 1/16W
RD87	24872103	Chip, 10k ohm, 1/16W
RD88	24872103	Chip, 10k ohm, 1/16W
RD89	24872104	Chip, 100k ohm, 1/16W
RD90	24872223	Chip, 22k ohm, 1/16W
RD91	24872151	Chip, 150 ohm, 1/16W
RF01	24872332	Chip, 3300 ohm, 1/16W
RF03	24872682	Chip, 6800 ohm, 1/16W
RF04	24872223	Chip, 22k ohm, 1/16W
RF06	24872102	Chip, 1k ohm, 1/16W
RF08	23103832	Chip (Ferrite Bead), TEM2125M
RF09	23103832	Chip (Ferrite Bead), TEM2125M
RF10	23103832	Chip (Ferrite Bead), TEM2125M
RF11	24872103	Chip, 10k ohm, 1/16W
RF12	24872101	Chip, 100 ohm, 1/16W
RF13	24872101	Chip, 100 ohm, 1/16W
RF14	24872101	Chip, 100 ohm, 1/16W
RF15	24872103	Chip, 10k ohm, 1/16W
RF16	24872471	Chip, 470 ohm, 1/16W
RF20	24872152	Chip, 1500 ohm, 1/16W
RF21	24000824	Chip, Jumper, 2125 type
RF22	24872102	Chip, 1k ohm, 1/16W
RF26	24872102	Chip, 1k ohm, 1/16W
RF32	24872101	Chip, 100 ohm, 1/16W
RF34	24872102	Chip, 1k ohm, 1/16W
RF39	24872472	Chip, 4700 ohm, 1/16W
RG17	24366103	CF, 10k ohm
RG18	24366472	CF, 4700 ohm
RG19	24366103	CF, 10k ohm
RG20	24366331	CF, 330 ohm

Location No.	Part No.	Description
RG26	24366229	CF, 2.2 ohm
RR01	24366102	CF, 1k ohm
RR02	24366104	CF, 100k ohm
RR03	24366222	CF, 2200 ohm
RR04	24366101	CF, 100 ohm
RR05	24366102	CF, 1k ohm
RR06	24366223	CF, 22k ohm
RR07	24366152	CF, 1500 ohm
RR10	24366102	CF, 1k ohm
RR11	24366681	CF, 680 ohm
RR12	24366152	CF, 1500 ohm
RR13	24366152	CF, 1500 ohm
RR15	24366391	CF, 390 ohm
RR16	24366391	CF, 390 ohm
RR17	24366391	CF, 390 ohm
RR18	24366102	CF, 1k ohm
RR22	24366103	CF, 10k ohm
RR23	24366103	CF, 10k ohm
RR32	24366331	CF, 330 ohm
RR33	24366331	CF, 330 ohm
RR34	24366331	CF, 330 ohm
RR35	24366392	CF, 3900 ohm
RR36	24366392	CF, 3900 ohm
RR37	24366392	CF, 3900 ohm
RR40	24366102	CF, 1k ohm
RR48	24366102	CF, 1k ohm
RR74	24366102	CF, 1k ohm
RR75	24366102	CF, 1k ohm
RR76	24366102	CF, 1k ohm
RR77	24366102	CF, 1k ohm
RR78	24366102	CF, 1k ohm
RS01	24872681	Chip, 680 ohm, 1/16W
RS02	24872681	Chip, 680 ohm, 1/16W
RS03	24872562	Chip, 5600 ohm, 1/16W
RS04	24872562	Chip, 5600 ohm, 1/16W
RS05	24872562	Chip, 5600 ohm, 1/16W
RS06	24872562	Chip, 5600 ohm, 1/16W
RS07	24872562	Chip, 5600 ohm, 1/16W
RS08	24872562	Chip, 5600 ohm, 1/16W
RS09	24872562	Chip, 5600 ohm, 1/16W
RS10	24872562	Chip, 5600 ohm, 1/16W
RS11	24872562	Chip, 5600 ohm, 1/16W
RS12	24872562	Chip, 5600 ohm, 1/16W
RS13	24872101	Chip, 100 ohm, 1/16W
RS14	24872101	Chip, 100 ohm, 1/16W
RS15	24872104	Chip, 100k ohm, 1/16W
RS16	24872104	Chip, 100k ohm, 1/16W
RS17	24872223	Chip, 22k ohm, 1/16W
RS18	24872223	Chip, 22k ohm, 1/16W
RS19	24872681	Chip, 680 ohm, 1/16W
RS20	24872681	Chip, 680 ohm, 1/16W
RS21	24872222	Chip, 2200 ohm, 1/16W
RS22	24872222	Chip, 2200 ohm, 1/16W
RS23	24872101	Chip, 100 ohm, 1/16W
RS24	24872101	Chip, 100 ohm, 1/16W
RS27	24872104	Chip, 100k ohm, 1/16W
RS28	24872104	Chip, 100k ohm, 1/16W
RS29	24872223	Chip, 22k ohm, 1/16W
RS30	24872223	Chip, 22k ohm, 1/16W
RS31	24872103	Chip, 10k ohm, 1/16W
RS32	24872104	Chip, 100k ohm, 1/16W
RS35	24872223	Chip, 22k ohm, 1/16W
RS36	24872223	Chip, 22k ohm, 1/16W
RS37	24872104	Chip, 100k ohm, 1/16W

Location No.	Part No.	Description
RS38	24872104	Chip, 100k ohm, 1/16W
RS41	24872223	Chip, 22k ohm, 1/16W
RS42	24872223	Chip, 22k ohm, 1/16W
RS43	24872681	Chip, 680 ohm, 1/16W
RS44	24872681	Chip, 680 ohm, 1/16W
RS47	24872223	Chip, 22k ohm, 1/16W
RS48	24872223	Chip, 22k ohm, 1/16W
RS51	24872223	Chip, 22k ohm, 1/16W
RS52	24872223	Chip, 22k ohm, 1/16W
RV05	24872101	Chip, 100 ohm, 1/16W
RV06	24872152	Chip, 1500 ohm, 1/16W
RV07	24872103	Chip, 10k ohm, 1/16W
RV08	24872103	Chip, 10k ohm, 1/16W
RV09	24872101	Chip, 100 ohm, 1/16W
RV10	24872101	Chip, 100 ohm, 1/16W
RV22	24366222	CF, 2200 ohm
RV23	24552101	OMF, 100 ohm, 1/2W
RV24	24366181	CF, 180 ohm
RV25	24872101	Chip, 100 ohm, 1/16W
RV26	24366181	CF, 180 ohm
RV27	24872750	Chip, 75 ohm, 1/16W
RV28	24872562	Chip, 5600 ohm, 1/16W
RV29	24872103	Chip, 10k ohm, 1/16W
RV30	24872750	Chip, 75 ohm, 1/16W
RV31	24872750	Chip, 75 ohm, 1/16W
RV32	24872750	Chip, 75 ohm, 1/16W
RV33	24872562	Chip, 5600 ohm, 1/16W
RV34	24872562	Chip, 5600 ohm, 1/16W
RV37	24872750	Chip, 75 ohm, 1/16W
RV41	24872102	Chip, 1k ohm, 1/16W
RV60	24872102	Chip, 1k ohm, 1/16W
RV61	24552101	OMF, 100 ohm, 1/2W
RV62	24872101	Chip, 100 ohm, 1/16W
RV63	24366151	CF, 150 ohm
RV64	24872750	Chip, 75 ohm, 1/16W
RV65	24552101	OMF, 100 ohm, 1/2W
RV66	24872750	Chip, 75 ohm, 1/16W
RV67	24366151	CF, 150 ohm
RV68	24872101	Chip, 100 ohm, 1/16W
RV70	24872101	Chip, 100 ohm, 1/16W
RV71	24872472	Chip, 4700 ohm, 1/16W
RV80	24366681	CF, 680 ohm
RV81	24872750	Chip, 75 ohm, 1/16W
RV82	24872101	Chip, 100 ohm, 1/16W
RV83	24366681	CF, 680 ohm
RV85	24872750	Chip, 75 ohm, 1/16W
RV86	24872750	Chip, 75 ohm, 1/16W
RV87	24872750	Chip, 75 ohm, 1/16W
RV89	24872750	Chip, 75 ohm, 1/16W
RV95	24872750	Chip, 75 ohm, 1/16W
RV96	24872750	Chip, 75 ohm, 1/16W
RV97	24872750	Chip, 75 ohm, 1/16W
RX101	24872393	Chip, 39k ohm, 1/16W
RX102	24872153	Chip, 15k ohm, 1/16W
RX103	24872221	Chip, 220 ohm, 1/16W
RX104	24872392	Chip, 3900 ohm, 1/16W
RX106	24872331	Chip, 330 ohm, 1/16W
RX107	24872331	Chip, 330 ohm, 1/16W
RX108	24872680	Chip, 68 ohm, 1/16W
RX109	24872122	Chip, 1200 ohm, 1/16W
RX110	24872122	Chip, 1200 ohm, 1/16W
RX111	24872681	Chip, 680 ohm, 1/16W
RX112	24872470	Chip, 47 ohm, 1/16W
RX113	24872471	Chip, 470 ohm, 1/16W

Location No.	Part No.	Description
RX114	24872681	Chip, 680 ohm, 1/16W
RX115	24872101	Chip, 100 ohm, 1/16W
RX116	24872681	Chip, 680 ohm, 1/16W
RX117	24872201	Chip, 200 ohm, 1/16W
RX118	24872221	Chip, 220 ohm, 1/16W
RX119	24872101	Chip, 100 ohm, 1/16W
RX120	24872101	Chip, 100 ohm, 1/16W
RX121	24872101	Chip, 100 ohm, 1/16W
RX122	24872122	Chip, 1200 ohm, 1/16W
RX123	24872331	Chip, 330 ohm, 1/16W
RX124	24872101	Chip, 100 ohm, 1/16W
RX125	24872101	Chip, 100 ohm, 1/16W
RX129	24872100	Chip, 10 ohm, 1/16W
RX141	24872101	Chip, 100 ohm, 1/16W
RX143	24872393	Chip, 39k ohm, 1/16W
RX144	24872153	Chip, 15k ohm, 1/16W
RX145	24872201	Chip, 200 ohm, 1/16W
RX146	24872221	Chip, 220 ohm, 1/16W
RX147	24872681	Chip, 680 ohm, 1/16W
RX150	24872101	Chip, 100 ohm, 1/16W
RX152	24872331	Chip, 330 ohm, 1/16W
RX155	24872102	Chip, 1k ohm, 1/16W
RX156	24872272	Chip, 2700 ohm, 1/16W
RX157	24872471	Chip, 470 ohm, 1/16W
RX158	24872471	Chip, 470 ohm, 1/16W
RX161	24872101	Chip, 100 ohm, 1/16W
RX163	24872393	Chip, 39k ohm, 1/16W
RX164	24872153	Chip, 15k ohm, 1/16W
RX165	24872201	Chip, 200 ohm, 1/16W
RX166	24872221	Chip, 220 ohm, 1/16W
RX167	24872681	Chip, 680 ohm, 1/16W
RX170	24872101	Chip, 100 ohm, 1/16W
RX172	24872331	Chip, 330 ohm, 1/16W
RX175	24872102	Chip, 1k ohm, 1/16W
RX176	24872272	Chip, 2700 ohm, 1/16W
RX177	24872471	Chip, 470 ohm, 1/16W
RX178	24872471	Chip, 470 ohm, 1/16W
RX179	24872101	Chip, 100 ohm, 1/16W
RX180	24872101	Chip, 100 ohm, 1/16W
RX181	24872680	Chip, 68 ohm, 1/16W
RX185	24872470	Chip, 47 ohm, 1/16W
RX186	24872101	Chip, 100 ohm, 1/16W
RX191	24872100	Chip, 10 ohm, 1/16W
RX192	24872100	Chip, 10 ohm, 1/16W
RX193	24872100	Chip, 10 ohm, 1/16W
RX201	24872102	Chip, 1k ohm, 1/16W
RX202	24872103	Chip, 10k ohm, 1/16W
RX203	24872103	Chip, 10k ohm, 1/16W
RX204	24000824	Chip, Jumper, 2125 type
RX205	24019439	Chip, 47 ohm, 1/16W
RX206	24019439	Chip, 47 ohm, 1/16W
RX207	24019439	Chip, 47 ohm, 1/16W
RX208	24019439	Chip, 47 ohm, 1/16W
RX209	24019439	Chip, 47 ohm, 1/16W
RX210	24019439	Chip, 47 ohm, 1/16W
RX211	24019439	Chip, 47 ohm, 1/16W
RX212	24019439	Chip, 47 ohm, 1/16W
RX214	24872103	Chip, 10k ohm, 1/16W
RX216	24872102	Chip, 1k ohm, 1/16W
RX221	24872470	Chip, 47 ohm, 1/16W
RX222	24872470	Chip, 47 ohm, 1/16W
RX223	24872470	Chip, 47 ohm, 1/16W
RX225	24872151	Chip, 150 ohm, 1/16W
RX226	24872331	Chip, 330 ohm, 1/16W

Location No.	Part No.	Description
RX229	24872332	Chip, 3300 ohm, 1/16W
RX231	24872470	Chip, 47 ohm, 1/16W
RX232	24872470	Chip, 47 ohm, 1/16W
RX233	24872470	Chip, 47 ohm, 1/16W
RX235	24872274	Chip, 270k ohm, 1/16W
RX236	24872472	Chip, 4700 ohm, 1/16W
RX237	24872221	Chip, 220 ohm, 1/16W
RX240	24872272	Chip, 2700 ohm, 1/16W
RX256	24000824	Chip, Jumper, 2125 type
RX258	24872470	Chip, 47 ohm, 1/16W
RX259	24872470	Chip, 47 ohm, 1/16W
RX261	24872101	Chip, 100 ohm, 1/16W
RX263	24872101	Chip, 100 ohm, 1/16W
RX274	24872221	Chip, 220 ohm, 1/16W
RX275	24872221	Chip, 220 ohm, 1/16W
RX276	24872221	Chip, 220 ohm, 1/16W
RX277	24872221	Chip, 220 ohm, 1/16W
RX278	24872221	Chip, 220 ohm, 1/16W
RX279	24872471	Chip, 470 ohm, 1/16W
RX280	24872471	Chip, 470 ohm, 1/16W
RX281	24019439	Chip, 47 ohm, 1/16W
RX282	24019439	Chip, 47 ohm, 1/16W
RX283	24019439	Chip, 47 ohm, 1/16W
RX284	24019439	Chip, 47 ohm, 1/16W
RX285	24872332	Chip, 3300 ohm, 1/16W
RX286	24872332	Chip, 3300 ohm, 1/16W
RX291	24872101	Chip, 100 ohm, 1/16W
RX292	24872101	Chip, 100 ohm, 1/16W
RX293	24872332	Chip, 3300 ohm, 1/16W
RX301	24872201	Chip, 200 ohm, 1/16W
RX302	24872272	Chip, 2700 ohm, 1/16W
RX303	24872201	Chip, 200 ohm, 1/16W
RX304	24872272	Chip, 2700 ohm, 1/16W
RX305	24872201	Chip, 200 ohm, 1/16W
RX306	24872272	Chip, 2700 ohm, 1/16W
RX307	24872222	Chip, 2200 ohm, 1/16W
RX308	24872112	Chip, 1.1k ohm, 1/16W
RX309	24872122	Chip, 1200 ohm, 1/16W
RX310	24872122	Chip, 1200 ohm, 1/16W
RX311	24872122	Chip, 1200 ohm, 1/16W
RX312	24872101	Chip, 100 ohm, 1/16W
RX313	24872152	Chip, 1500 ohm, 1/16W
RX314	24872101	Chip, 100 ohm, 1/16W
RX315	24872101	Chip, 100 ohm, 1/16W
RX316	24872101	Chip, 100 ohm, 1/16W
RX321	24872223	Chip, 22k ohm, 1/16W
RX322	24872223	Chip, 22k ohm, 1/16W
RX325	24872101	Chip, 100 ohm, 1/16W
RX330	24872821	Chip, 820 ohm, 1/16W
RX331	24872151	Chip, 150 ohm, 1/16W
RX332	24872821	Chip, 820 ohm, 1/16W
RX334	24872561	Chip, 560 ohm, 1/16W
RX341	24872223	Chip, 22k ohm, 1/16W
RX342	24872223	Chip, 22k ohm, 1/16W
RX345	24872101	Chip, 100 ohm, 1/16W
RX350	24872821	Chip, 820 ohm, 1/16W
RX351	24872121	Chip, 120 ohm, 1/16W
RX352	24872681	Chip, 680 ohm, 1/16W
RX354	24872561	Chip, 560 ohm, 1/16W
RX361	24872223	Chip, 22k ohm, 1/16W
RX362	24872223	Chip, 22k ohm, 1/16W
RX365	24872101	Chip, 100 ohm, 1/16W
RX370	24872821	Chip, 820 ohm, 1/16W
RX371	24872121	Chip, 120 ohm, 1/16W

Location No.	Part No.	Description
RX372	24872681	Chip, 680 ohm, 1/16W
RX374	24872561	Chip, 560 ohm, 1/16W
RX402	24872101	Chip, 100 ohm, 1/16W
RX404	24872101	Chip, 100 ohm, 1/16W
RX406	24872101	Chip, 100 ohm, 1/16W
RX408	24872101	Chip, 100 ohm, 1/16W
RX410	24872101	Chip, 100 ohm, 1/16W
RX412	24872101	Chip, 100 ohm, 1/16W
RX421	24872221	Chip, 220 ohm, 1/16W
RX422	24872221	Chip, 220 ohm, 1/16W
RX423	24872221	Chip, 220 ohm, 1/16W
RX424	24872221	Chip, 220 ohm, 1/16W
RX425	24872221	Chip, 220 ohm, 1/16W
RX426	24872101	Chip, 100 ohm, 1/16W
RX427	24872221	Chip, 220 ohm, 1/16W
RX428	24872221	Chip, 220 ohm, 1/16W
RX429	24872221	Chip, 220 ohm, 1/16W
RX430	24872221	Chip, 220 ohm, 1/16W
RX431	24322478	MF, 0.47 ohm, 1W
RX621	24872182	Chip, 1800 ohm, 1/16W
RX622	24872222	Chip, 2200 ohm, 1/16W
RX623	24872101	Chip, 100 ohm, 1/16W
RX624	24872102	Chip, 1k ohm, 1/16W
RX626	24872222	Chip, 2200 ohm, 1/16W
RX627	24872101	Chip, 100 ohm, 1/16W
RZ01	24872102	Chip, 1k ohm, 1/16W
RZ02	24872102	Chip, 1k ohm, 1/16W
RZ03	24872332	Chip, 3300 ohm, 1/16W
RZ04	24872102	Chip, 1k ohm, 1/16W
RZ05	24872391	Chip, 390 ohm, 1/16W
RZ06	24872821	Chip, 820 ohm, 1/16W
RZ08	24872391	Chip, 390 ohm, 1/16W
RZ09	24872101	Chip, 100 ohm, 1/16W
RZ13	24872102	Chip, 1k ohm, 1/16W
RZ14	24872102	Chip, 1k ohm, 1/16W
RZ15	24872102	Chip, 1k ohm, 1/16W
RZ17	24872391	Chip, 390 ohm, 1/16W
RZ18	24872391	Chip, 390 ohm, 1/16W
RZ20	24872101	Chip, 100 ohm, 1/16W
RZ29	24872101	Chip, 100 ohm, 1/16W
RZ30	24872101	Chip, 100 ohm, 1/16W

COILS & TRANSFORMERS

L101	23221803	Coil, Choke, TLN3040D
L201	23289840	Coil, Peaking, TRF4100AT
L301	23103859	Coil (Ferrite Bead), TEM2011
L302	23289846	Coil, Peaking, TRF4101AT
L400	23289840	Coil, Peaking, TRF4100AT
L400	23289846	Coil, Peaking, TRF4101AT
L410	23103859	Coil (Ferrite Bead), TEM2011
L442	23248169	Coil, Choke, TLN3329AD
L449	23103859	Coil (Ferrite Bead), TEM2011
L461	23248173	Coil, Choke, TLN3333AD (36ZP18P)
L461	23248238	Coil, Choke, TLN3335AF (32ZP18P)
L470	23103859	Coil (Ferrite Bead), TEM2011
L501	23238714	Coil, Peaking, TRF4100AJ
L501	23289840	Coil, Peaking, TRF4100AT
L503	23289840	Coil, Peaking, TRF4100AT
L503	23289844	Coil, Peaking, TRF4470AT
L510	23103852	Coil, Filter, TEM2028AH
L511	23103852	Coil, Filter, TEM2028AH
L512	23103898	Coil, Filter, TEM2030AH
L513	23103898	Coil, Filter, TEM2030AH
L513	23103898	Coil, Filter, TEM2030AH
L515	23103898	Coil, Filter, TEM2030AH
L605	23248073	Coil, Choke, TLN3299D
L701	23289840	Coil, Peaking, TRF4100AT
L702	23261974	Coil, Choke, HC5-035
L704	23103859	Coil (Ferrite Bead), TEM2011
L705	23103859	Coil (Ferrite Bead), TEM2011
L811	23103859	Coil (Ferrite Bead), TEM2011
L876	23280016	Coil, Peaking, TRF4100AZ
L883	23221747	Coil, Choke, TRF9253D
L885	23248073	Coil, Choke, TLN3299D
L886	23103859	Coil (Ferrite Bead), TEM2011
L889	23222694	Coil, Width, TLN2026
L891	23103859	Coil (Ferrite Bead), TEM2011
L892	23103859	Coil (Ferrite Bead), TEM2011
L893	23280016	Coil, Peaking, TRF4100AZ
L894	23289840	Coil, Peaking, TRF4100AT
L895	23222694	Coil, Width, TLN2026
L896	23103859	Coil (Ferrite Bead), TEM2011
L897	23222694	Coil, Width, TLN2026
⚠ L901	23200439	Coil, Degaussing, TSB-2405AT (36ZP18P)
⚠ L901	23200371	Coil, Degaussing, TSB-2384AM (32ZP18P)
L902	23289846	Coil, Peaking, TRF4101AT
L903	23289846	Coil, Peaking, TRF4101AT
L904	23289846	Coil, Peaking, TRF4101AT
L905	23289841	Coil, Peaking, TRF4150AT
L906	23289841	Coil, Peaking, TRF4150AT
L907	23289841	Coil, Peaking, TRF4150AT
L908	23289840	Coil, Peaking, TRF4100AT
L910	23289834	Coil, Peaking, TRF41R0AT
L911	23289846	Coil, Peaking, TRF4101AT
LA01	23289840	Coil, Peaking, TRF4100AT
LC07	23103828	Chip (Ferrite Bead), TEM2121M
LC08	23103828	Chip (Ferrite Bead), TEM2121M
LC09	23103828	Chip (Ferrite Bead), TEM2121M
LC10	23103828	Chip (Ferrite Bead), TEM2121M
LC11	23103828	Chip (Ferrite Bead), TEM2121M
LC12	23103828	Chip (Ferrite Bead), TEM2121M
LC13	23103828	Chip (Ferrite Bead), TEM2121M
LC14	23103828	Chip (Ferrite Bead), TEM2121M
LC15	23103828	Chip (Ferrite Bead), TEM2121M
LC16	23103828	Chip (Ferrite Bead), TEM2121M
LC17	23103828	Chip (Ferrite Bead), TEM2121M
LC43	23103775	Coil (Ferrite Bead), TEM2014
LC44	23103775	Coil (Ferrite Bead), TEM2014
LC45	23238562	Coil, Peaking, TRF4109AJ
LC83	23289109	Coil, Peaking, TRF41R0AF
LD81	23103828	Chip (Ferrite Bead), TEM2121M
LD82	23289470	Coil, Peaking, TRF4470AF

Location No.	Part No.	Description
LF01	23103775	Coil (Ferrite Bead), TEM2014
LF06	23238562	Coil, Peaking, TRF4109AJ
LF07	23238562	Coil, Peaking, TRF4109AJ
LF08	23238714	Coil, Peaking, TRF4100AJ
LF09	23238714	Coil, Peaking, TRF4100AJ
LF10	23238562	Coil, Peaking, TRF4109AJ
LF11	23289834	Coil, Peaking, TRF41R0AT
LF12	23289840	Coil, Peaking, TRF4100AT
LF13	23289840	Coil, Peaking, TRF4100AT
LF17	23289840	Coil, Peaking, TRF4100AT
LR01	23289834	Coil, Peaking, TRF41R0AT
LR02	23289834	Coil, Peaking, TRF41R0AT
LR26	23103898	Coil, Filter, TEM2030AH
LS09	23289834	Coil, Peaking, TRF41R0AT
LS10	23289834	Coil, Peaking, TRF41R0AT
LV01	23103852	Coil, Filter, TEM2028AH
LV02	23103845	Coil, TEM2030AY
LV03	23103852	Coil, Filter, TEM2028AH
LV09	23289840	Coil, Peaking, TRF4100AT
LV10	23103852	Coil, Filter, TEM2028AH
LV11	23103852	Coil, Filter, TEM2028AH
LV20	23103898	Coil, Filter, TEM2030AH
LV42	23289840	Coil, Peaking, TRF4100AT
LV43	23289840	Coil, Peaking, TRF4100AT
LV49	23103852	Coil, Filter, TEM2028AH
LX101	23103822	Chip (Ferrite Bead), TEM2117T
LX104	23245827	Chip, Inductor, TRF45R6CB
LX105	23103822	Chip (Ferrite Bead), TEM2117T
LX106	23103822	Chip (Ferrite Bead), TEM2117T
LX107	23103822	Chip (Ferrite Bead), TEM2117T
LX110	23103822	Chip (Ferrite Bead), TEM2117T
LX143	23245835	Chip, Inductor, TRF4270CB
LX144	23103822	Chip (Ferrite Bead), TEM2117T
LX145	23103822	Chip (Ferrite Bead), TEM2117T
LX150	23103822	Chip (Ferrite Bead), TEM2117T
LX152	23103822	Chip (Ferrite Bead), TEM2117T
LX153	23103822	Chip (Ferrite Bead), TEM2117T
LX163	23245835	Chip, Inductor, TRF4270CB
LX201	23103886	Chip (Ferrite Bead), TEM2129AM
LX221	23103822	Chip (Ferrite Bead), TEM2117T
LX222	23103822	Chip (Ferrite Bead), TEM2117T
LX223	23103822	Chip (Ferrite Bead), TEM2117T
LX226	23103822	Chip (Ferrite Bead), TEM2117T
LX227	23103822	Chip (Ferrite Bead), TEM2117T
LX231	23103822	Chip (Ferrite Bead), TEM2117T
LX232	23103822	Chip (Ferrite Bead), TEM2117T
LX233	23103822	Chip (Ferrite Bead), TEM2117T
LX236	23103822	Chip (Ferrite Bead), TEM2117T
LX237	23103822	Chip (Ferrite Bead), TEM2117T
LX261	23103822	Chip (Ferrite Bead), TEM2117T
LX271	23103822	Chip (Ferrite Bead), TEM2117T
LX301	23103822	Chip (Ferrite Bead), TEM2117T
LX321	23103822	Chip (Ferrite Bead), TEM2117T
LX322	23245825	Chip, Inductor, TRF43R9CB
LX342	23245826	Chip, Inductor, TRF44R7CB
LX362	23245826	Chip, Inductor, TRF44R7CB
LX401	23103886	Chip (Ferrite Bead), TEM2129AM
LX402	23103822	Chip (Ferrite Bead), TEM2117T
LX403	23103822	Chip (Ferrite Bead), TEM2117T
LX404	23103822	Chip (Ferrite Bead), TEM2117T
LX405	23103822	Chip (Ferrite Bead), TEM2117T
LX407	23103822	Chip (Ferrite Bead), TEM2117T

Location No.	Part No.	Description
LX421	23238562	Coil, Peaking, TRF4109AJ
LX422	23238562	Coil, Peaking, TRF4109AJ
LX423	23238562	Coil, Peaking, TRF4109AJ
LX424	23238562	Coil, Peaking, TRF4109AJ
LX425	23238562	Coil, Peaking, TRF4109AJ
LX426	23238562	Coil, Peaking, TRF4109AJ
LX427	23238562	Coil, Peaking, TRF4109AJ
LX428	23238718	Coil, Peaking, TRF4479AJ
LX429	23238718	Coil, Peaking, TRF4479AJ
LX430	23238562	Coil, Peaking, TRF4109AJ
LX431	23103880	Coil (Ferrite Bead), TEM2011Y
LX601	23103822	Chip (Ferrite Bead), TEM2117T
LX611	23103822	Chip (Ferrite Bead), TEM2117T
LZ01	23238710	Coil, Peaking, TRF4220AJ
LZ02	23238714	Coil, Peaking, TRF4100AJ
LZ03	23238714	Coil, Peaking, TRF4100AJ
LZ04	23238708	Coil, Peaking, TRF4330AJ
LZ05	23238709	Coil, Peaking, TRF4270AJ
LZ06	23103852	Coil, Filter, TEM2028AH
LZ07	70131060	Beze Filter, ZBF253D-00
LZ08	23238707	Coil, Peaking, TRF4390AJ
LZ09	70131060	Beze Filter, ZBF253D-00
LZ10	70131060	Beze Filter, ZBF253D-00
⚠T400	23224364	Transformer, Focus, TLN2168AH
T401	23224371	Transformer, Horiz, Drive, TLN1080AH
⚠T461	23236673	Transformer, Flyback, TFB4173AD
T801	23211736	Line Filter, TRF3231AL
T802	23211728	Line Filter, TRF3231AQ
⚠T863	23217434	Transformer, Converter, TPW3427AG

SEMICONDUCTORS

Q200	A6330059	Transistor, 2SC2482(C)
Q201	A6317440	Transistor, 2SC1815-Y
Q202	A6534040	Transistor, 2SA1015-Y
Q203	A6534040	Transistor, 2SA1015-Y
Q204	A6534040	Transistor, 2SA1015-Y
Q205	A6534040	Transistor, 2SA1015-Y
Q206	A6317440	Transistor, 2SC1815-Y
Q209	A6534040	Transistor, 2SA1015-Y
Q237	A6317440	Transistor, 2SC1815-Y
Q261	A6534040	Transistor, 2SA1015-Y
Q262	A6317440	Transistor, 2SC1815-Y
Q263	A6317440	Transistor, 2SC1815-Y
Q274	A6335470	Transistor, 2SC2712-Y
Q301	23319787	IC, LA7833S
Q301B	70391355	Screw, BITTB3X8 SZN
Q303	A6534040	Transistor, 2SA1015-Y
Q360	A6317440	Transistor, 2SC1815-Y
Q370	A6002020	Transistor, RN1202
Q370	A6534040	Transistor, 2SA1015-Y
Q371	A6002020	Transistor, RN1202
Q402	A6325413	Transistor, 2SC2235-O
Q404	A6374144	Transistor, 2CS5570
Q404B	A8012650	Spacer, AC263
Q404D	72471082	Screw, BRDT2W3X10 SZN
Q418	23314141	Transistor, 2SC3852
Q418B	70391355	Screw, BITTB3X8 SZN
Q420	23314141	Transistor, 2SC3852
Q420B	70391355	Screw, BITTB3X8 SZN
Q421	A6317440	Transistor, 2SC1815-Y

Location No.	Part No.	Description
Q425	A6317440	Transistor, 2SC1815-Y
Q426	A6002060	Transistor, RN1206
Q427	A6002060	Transistor, RN1206
Q428	A6002060	Transistor, RN1206
Q430	23314141	Transistor, 2SC3852
Q430B	70391355	Screw, BITTB3X8 SZN
Q432	A6317440	Transistor, 2SC1815-Y
Q460	23314850	Transistor, 2SA1788, E
Q460B	72471082	Screw, BRDT2W3X10 SZN
Q461	A6317440	Transistor, 2SC1815-Y
Q462	A6317440	Transistor, 2SC1815-Y
Q470	A6317440	Transistor, 2SC1815-Y
Q470	A6547250	Transistor, 2SA1320
Q471	A6317440	Transistor, 2SC1815-Y
Q472	A6317440	Transistor, 2SC1815-Y
Q473	A6534040	Transistor, 2SA1015-Y
Q504	A6541130	Transistor, 2SA1162-Y
Q505	A6541130	Transistor, 2SA1162-Y
Q506	A6317440	Transistor, 2SC1815-Y
Q507	A6361770	Transistor, 2SC3437-Y
Q510	B0386208	IC, TA1276AN
Q608	A6534040	Transistor, 2SA1015-Y
Q612	A6534040	Transistor, 2SA1015-Y
Q620	23906596	IC, BA4558
Q639	A6342200	Transistor, 2CS2878-A
Q640	B0377308	IC, TA8256BH
Q640B	70391355	Screw, BITTB3X8 SZN
Q641	A6342200	Transistor, 2CS2878-A
Q642	A6342200	Transistor, 2CS2878-A
Q670	B0377308	IC, TA8256BH
Q670B	70391355	Screw, BITTB3X8 SZN
Q671	A6342200	Transistor, 2CS2878-A
Q672	A6342200	Transistor, 2CS2878-A
Q673	A6342200	Transistor, 2CS2878-A
Q688	A6002040	Transistor, RN1204
Q705	A6317440	Transistor, 2SC1815-Y
Q706	A6317440	Transistor, 2SC1815-Y
Q707	A6734590	Transistor, 2SC752(G)TM-Y
Q709	A6317440	Transistor, 2SC1815-Y
Q710	A6534040	Transistor, 2SA1015-Y
Q711	23314911	Transistor, 2SB1569A E
Q711B	70391355	Screw, BITTB3X8 SZN
Q712	23314914	Transistor, 2SD2400A E
Q712B	70391355	Screw, BITTB3X8 SZN
Q719	A6317440	Transistor, 2SC1815-Y
Q801	23135008	IC, STR-F6668B
Q801B	72471082	Screw, BRDT2W3X10 SZN
Q802	23314141	Transistor, 2SC3852
Q802B	70391355	Screw, BITTB3X8 SZN
Q805	A6317440	Transistor, 2SC1815-Y
⚠ Q826	A8643108	Photo Coupler, TLP621(GR-LF
Q827	23319693	IC, SE116N, LF4
Q830	23314141	Transistor, 2SC3852
Q830B	70391355	Screw, BITTB3X8 SZN
Q831	23314141	Transistor, 2SC3852
Q831B	70391355	Screw, BITTB3X8 SZN
Q832	23905977	IC, PQ09RD11
Q832B	70391355	Screw, BITTB3X8 SZN
Q833	23314141	Transistor, 2SC3852
Q833B	70391355	Screw, BITTB3X8 SZN
Q840	23318299	IC, L78MR05
Q840B	70391355	Screw, BITTB3X8 SZN
Q841	A6317440	Transistor, 2SC1815-Y
Q842	A6317440	Transistor, 2SC1815-Y

Location No.	Part No.	Description
Q901	A6368700	Transistor, 2CS4544
Q901B	70391355	Screw, BITTB3X8 SZN
Q902	A6317440	Transistor, 2SC1815-Y
Q903	A6368700	Transistor, 2CS4544
Q903B	70391355	Screw, BITTB3X8 SZN
Q904	A6317440	Transistor, 2SC1815-Y
Q905	A6368700	Transistor, 2CS4544
Q905B	70391355	Screw, BITTB3X8 SZN
Q906	A6317440	Transistor, 2SC1815-Y
Q907	A6509140	Transistor, 2SA562TM-Y
Q908	A6321240	Transistor, 2SC2120-Y
Q910	A6317440	Transistor, 2SC1815-Y
Q911	A6317440	Transistor, 2SC1815-Y
Q912	A6534040	Transistor, 2SA1015-Y
Q913	A6534040	Transistor, 2SA1015-Y
Q914	A6317440	Transistor, 2SC1815-Y
Q4420	B01A0067	IC, TA1300AN
Q4460	A6317440	Transistor, 2SC1815-Y
Q4462	A6317440	Transistor, 2SC1815-Y
Q4490	A8641063	Photo Coupler, TLP521-1
Q4491	23314917	Transistor, 2SK2003-01MR
Q4493	A6317440	Transistor, 2SC1815-Y
QA01	23000897	IC, CXP750010-162S
QA02	23906642	IC, AT24C64-10PC
QA05	A6734590	Transistor, 2SC752(G)TM-Y
QA80	A6002020	Transistor, RN1202
QA81	A6002020	Transistor, RN1202
QB01	23314791	Transistor, 2PA1015Y
QB03	23314791	Transistor, 2PA1015Y
QB03	A6002050	Transistor, RN1205
QB04	23314791	Transistor, 2PA1015Y
QB30	A6317440	Transistor, 2SC1815-Y
QB81	A6342200	Transistor, 2CS2878-A
QB82	A6342200	Transistor, 2CS2878-A
QB83	A6534040	Transistor, 2SA1015-Y
QB92	A6317440	Transistor, 2SC1815-Y
QB93	A6534040	Transistor, 2SA1015-Y
QB94	A6534040	Transistor, 2SA1015-Y
QB95	A6534040	Transistor, 2SA1015-Y
QB96	A6534040	Transistor, 2SA1015-Y
QD81	A6335470	Transistor, 2SC2712-Y
QD82	B0487595	IC, TC74HC4052AF
QD83	A6335470	Transistor, 2SC2712-Y
QF03	23314204	Transistor, 2SC2412K, Q
QF04	A6734590	Transistor, 2SC752(G)TM-Y
QF08	A6541130	Transistor, 2SA1162-Y
QG36	23314141	Transistor, 2SC3852
QG36B	70391355	Screw, BITTB3X8 SZN
QG37	A6534040	Transistor, 2SA1015-Y
QG38	A6317440	Transistor, 2SC1815-Y
QJ04	23114528	Transistor, 2SC1740S, Q
QR03	23114530	Transistor, 2SA933S-Q
QS01	A6359870	Transistor, 2SC3326-B
QS02	A6359870	Transistor, 2SC3326-B
QS03	A6335470	Transistor, 2SC2712-Y
QS04	A6335470	Transistor, 2SC2712-Y
QS05	A6359870	Transistor, 2SC3326-B
QS06	A6359870	Transistor, 2SC3326-B
QS07	A6014040	Transistor, RN2404
QS08	A6359870	Transistor, 2SC3326-B
QS09	A6359870	Transistor, 2SC3326-B
QV01	23000369	IC, MM1495XD
QV02	A6317440	Transistor, 2SC1815-Y
QV06	23205045	Transistor, 2SA1037AKT14

Location No.	Part No.	Description
QV07	A6335470	Transistor, 2SC2712-Y
QV09	A6317440	Transistor, 2SC1815-Y
QV10	A6335470	Transistor, 2SC2712-Y
QV12	A6317440	Transistor, 2SC1815-Y
QV14	A6317440	Transistor, 2SC1815-Y
QX01	23906921	IC, TC90A61F
QX03	23905013	IC, TLC29321PW
QX04	23906951	IC, SN74AHCT1G32
QX05	23906951	IC, SN74AHCT1G32
QX07	23905939	IC, TLC2933IPW
QX08	23906951	IC, SN74AHCT1G32
QX09	23906951	IC, SN74AHCT1G32
QX11	23906318	IC, ADS932E
QX12	23906318	IC, ADS932E
QX15	23314345	Transistor, IMZ1 T108
QX16	23314345	Transistor, IMZ1 T108
QX17	23314345	Transistor, IMZ1 T108
QX18	23314345	Transistor, IMZ1 T108
QX19	A6541130	Transistor, 2SA1162-Y
QX20	A6030670	IC, TC7S66F
QX22	23314345	Transistor, IMZ1 T108
QX24	23314345	Transistor, IMZ1 T108
QX26	A6541130	Transistor, 2SA1162-Y
QX27	A6030670	IC, TC7S66F
QX29	23314345	Transistor, IMZ1 T108
QX31	23314345	Transistor, IMZ1 T108
QX33	A6541130	Transistor, 2SA1162-Y
QX34	A6030670	IC, TC7S66F
QX35	23314345	Transistor, IMZ1 T108
QX37	A6335470	Transistor, 2SC2712-Y
QX38	A6335470	Transistor, 2SC2712-Y
QX39	A6335470	Transistor, 2SC2712-Y
QX41	A6335470	Transistor, 2SC2712-Y
QX42	A6335470	Transistor, 2SC2712-Y
QX44	A6335470	Transistor, 2SC2712-Y
QX45	A6335470	Transistor, 2SC2712-Y
QX47	A6335470	Transistor, 2SC2712-Y
QX48	A6335470	Transistor, 2SC2712-Y
QX50	B0485484	IC, TC74HCT541AF
QX51	23906770	IC, BA033FP-E2
QX52	A6030695	IC, TC7SH32FU(BR
QX53	A6030695	IC, TC7SH32FU(BR
QX54	A6004010	Transistor, RN1401
QX55	B0370000	IC, TC78L05F
QX56	A6541130	Transistor, 2SA1162-Y
QX57	A6004010	Transistor, RN1401
QX58	A6004010	Transistor, RN1401
QX61	23000965	IC, V161610DTC-8
QX62	23000965	IC, V161610DTC-8
QX63	23314344	Transistor, IMX1 T110
QZ01	B0410895	IC, TC90A49P
QZ02	A6335470	Transistor, 2SC2712-Y
QZ04	A6541130	Transistor, 2SA1162-Y
QZ05	A6541130	Transistor, 2SA1162-Y
QZ07	A6541130	Transistor, 2SA1162-Y
QZ08	A6335470	Transistor, 2SC2712-Y
D201	23115599	Diode, 1N4148
D240	23115599	Diode, 1N4148
D301	23118094	Diode, EU2A, LF-F10
D302	23118094	Diode, EU2A, LF-F10
D304	23118094	Diode, EU2A, LF-F10
D308	23118822	Diode, ERB12-02
D309	23118822	Diode, ERB12-02
D312	23118859	Diode, 1SS133

Location No.	Part No.	Description
D313	23115599	Diode, 1N4148
D320	23115599	Diode, 1N4148
D336	23316672	Diode, Zener, MTZJ5.6B
D337	23316672	Diode, Zener, MTZJ5.6B
D370	23118479	Diode, BYD33J
D370	23316658	Diode, Zener, MTZJ3.6A
D371	23115599	Diode, 1N4148
D371	23118479	Diode, BYD33J
D373	23316690	Diode, Zener, MTZJ10B
D374	23115599	Diode, 1N4148
D404B	72471082	Screw, BRDT2W3X10 SZN
D406	23118479	Diode, BYD33J
D415	23118094	Diode, EU2A, LF-F10
D418	23316749	Diode, Zener, MTZJ30A
D419	23316691	Diode, Zener, MTZJ10C
D420	23316682	Diode, Zener, MTZJ7.5C
D421	23316680	Diode, Zener, MTZJ7.5A
D422	23316726	Diode, Zener, MTZJ15C
D431	23316670	Diode, Zener, MTZJ5.1C
D432	23316670	Diode, Zener, MTZJ5.1C
D436	23115599	Diode, 1N4148
D441	23316687	Diode, Zener, MTZJ9.1B
D460	23118479	Diode, BYD33J
D463	23115599	Diode, 1N4148
D464	23316718	Diode, Zener, MTZJ12A
D466	23316672	Diode, Zener, MTZJ5.6B
D467	23118479	Diode, BYD33J
D470	23316670	Diode, Zener, MTZJ5.1C
D474	23316719	Diode, Zener, MTZJ12B
D488	23115599	Diode, 1N4148
D490	23115599	Diode, 1N4148
D498	23316745	Diode, Zener, MTZJ27A
D499	23115599	Diode, 1N4148
D501	23115599	Diode, 1N4148
D506	23316673	Diode, Zener, MTZJ5.6C
D611	23115599	Diode, 1N4148
D612	23115599	Diode, 1N4148
D613	23115599	Diode, 1N4148
D614	23115599	Diode, 1N4148
D624	23115599	Diode, 1N4148
D625	23115599	Diode, 1N4148
D626	23115599	Diode, 1N4148
D627	23115599	Diode, 1N4148
D628	23115599	Diode, 1N4148
D630	23115599	Diode, 1N4148
D640	23115599	Diode, 1N4148
D641	23115599	Diode, 1N4148
D642	23115599	Diode, 1N4148
D643	23115599	Diode, 1N4148
D647	23115599	Diode, 1N4148
D648	23115599	Diode, 1N4148
D670	23115599	Diode, 1N4148
D671	23115599	Diode, 1N4148
D672	23115599	Diode, 1N4148
D673	23115599	Diode, 1N4148
D674	23115599	Diode, 1N4148
D675	23115599	Diode, 1N4148
D683	23115599	Diode, 1N4148
D704	23115599	Diode, 1N4148
D705	23115599	Diode, 1N4148
D715	23115599	Diode, 1N4148
D721	23115599	Diode, 1N4148
D801	23357041	Diode, LN6SB60-F05
D804	23316725	Diode, Zener, MTZJ15B

Location No.	Part No.	Description
D805	23316553	Diode, 1SS145
D806	23118479	Diode, BYD33J
D810	23316738	Diode, Zener, MTZJ22B
D811	23115599	Diode, 1N4148
D815	23316746	Diode, Zener, MTZJ27B
D817	23115599	Diode, 1N4148
D818	23316738	Diode, Zener, MTZJ22B
D819	23316678	Diode, Zener, MTZJ6.8B
D828	23115599	Diode, 1N4148
D836	23316673	Diode, Zener, MTZJ5.6C
D842	23316724	Diode, Zener, MTZJ15A
D844	23316717	Diode, Zener, MTZJ11C
D848	23316675	Diode, Zener, MTZJ6.2B
D855	23118859	Diode, 1SS133
D871	23118479	Diode, BYD33J
D883	23316803	Diode, FMU-G16S
D883B	70391355	Screw, BITTB3X8 SZN
D885	23316642	Diode, YG911S2R
D885B	70391355	Screw, BITTB3X8 SZN
D891	23357020	Diode, SF5S4
D891B	70391355	Screw, BITTB3X8 SZN
D892	23316184	Diode, FML-G12S
D892B	70391355	Screw, BITTB3X8 SZN
D893	23316673	Diode, Zener, MTZJ5.6C
D894	23316673	Diode, Zener, MTZJ5.6C
D896	23118479	Diode, BYD33J
D901	23115599	Diode, 1N4148
D904	23115599	Diode, 1N4148
D905	23115599	Diode, 1N4148
D906	23115599	Diode, 1N4148
D907	23115599	Diode, 1N4148
D908	23115599	Diode, 1N4148
D909	23115599	Diode, 1N4148
D911	23118479	Diode, BYD33J
DA02	23115599	Diode, 1N4148
DA03	23115599	Diode, 1N4148
D4222	23316744	Diode, Zener, MTZJ24D
D4223	23115532	Diode, ERB12-01E
D4410	23115599	Diode, 1N4148
D4411	23115599	Diode, 1N4148
D4412	23115599	Diode, 1N4148
DA42	23115599	Diode, 1N4148
DB30	23115599	Diode, 1N4148
DD81	23118310	Diode, Zener, RD5.6M-T1B2
DF01	23316654	Diode, Zener, MTZJ3.0A
DG27	23316673	Diode, Zener, MTZJ5.6C
DJ02	23316726	Diode, Zener, MTZJ15C (32ZP18P)
DR01	23115599	Diode, 1N4148
DR02	23115599	Diode, 1N4148
DR03	23115599	Diode, 1N4148
DV09	23118041	Diode, MA111-(TX)
DV14	23118310	Diode, Zener, RD5.6M-T1B2

MISCELLANEOUS

B221	23037312	Screw, BTBW 3X12 SZN
B223	23035412	Screw, BTB 4X12 SZN
B224	23037312	Screw, BTBW 3X12 SZN
BB10	23368627	Plug, 8P
BB10A	23903022	Socket, 8P
BB10B	23903022	Socket, 8P
BB11	23368627	Plug, 8P
BB11A	23903022	Socket, 8P
BB11B	23903022	Socket, 8P

Location No.	Part No.	Description
BB12	23368627	Plug, 8P
BB12A	23903022	Socket, 8P
BB12B	23903022	Socket, 8P
BB14	23368627	Plug, 8P
BB14A	23903022	Socket, 8P
BB14B	23903022	Socket, 8P
BB15	23368627	Plug, 8P
BB15A	23903022	Socket, 8P
BB15B	23903022	Socket, 8P
BB16	23368627	Plug, 8P
BB16A	23903022	Socket, 8P
BB16B	23903022	Socket, 8P
⚠F470	23144503	Fuse, 1.25A, 250V
F470A	23165433	Holder, Fuse
⚠F801	23144508	Fuse, 4.0A, 250V
F801A	23165433	Holder, Fuse
⚠F802	23144506	Fuse, 2.5A, 250V
F802A	23165433	Holder, Fuse
⚠F889	23144458	Fuse, 5.0A, 250V
F889A	23165433	Holder, Fuse
G299	24366103	CF, 10k ohm
G312	24366472	CF, 4700 ohm
G337	24366153	CF, 15k ohm (36ZP18P)
G337	24366472	CF, 4700 ohm (32ZP18P)
G401	23103859	Coil (Ferrite Bead), TEM2011
G402	23103859	Coil (Ferrite Bead), TEM2011
G403	23103859	Coil (Ferrite Bead), TEM2011
G404	23103859	Coil (Ferrite Bead), TEM2011
G430	23115532	Diode, ERB12-01E
G443	23115599	Diode, 1N4148
G465	23316672	Diode, Zener, MTZJ5.6B
G484	24591152	PF, 1500pF
G510	23289838	Coil, Peaking, TRF44R7AT
G527	24567104	PF, 0.1μF
G528	24567104	PF, 0.1μF
G529	24567104	PF, 0.1μF
G638	24366222	CF, 2200 ohm
G684	23115599	Diode, 1N4148
G824	23222694	Coil, Choke, TLN2026
GC01	24000445	Chip Jumper, 1680 Type
GC02	24000445	Chip Jumper, 1680 Type
GC03	24000445	Chip Jumper, 1680 Type
GJ02	24000824	Chip Jumper, 2125Type
GJ03	23144539	Protector, PRF20005491, 125V, 2A
GJ03	24000824	Chip Jumper, 2125Type
GJ07	24000824	Chip Jumper, 2125Type
GJ09	24000824	Chip Jumper, 2125Type
GJ10	24000824	Chip Jumper, 2125Type
GJ14	24000824	Chip Jumper, 2125Type
GJ15	24000824	Chip Jumper, 2125Type
GJ16	24000824	Chip Jumper, 2125Type
GJ17	24000824	Chip Jumper, 2125Type
GJ22	24000824	Chip Jumper, 2125Type
GJ23	24000824	Chip Jumper, 2125Type
GJ29	24000824	Chip Jumper, 2125Type
GJ30	24000445	Chip Jumper, 1680 Type
GJ35	24000824	Chip Jumper, 2125Type
GJ36	24000824	Chip Jumper, 2125Type
GS01	24000824	Chip Jumper, 2125Type
GV05	24872101	Chip, 100 ohm, 1/16W
GV11	24000824	Chip Jumper, 2125Type
GV35	24872101	Chip, 100 ohm, 1/16W

Location No.	Part No.	Description
H002	23148732	Module, MPSA11A, NICAM/IGR A-PRO A
KB01	23904946	Remote Sensor, RPM-676CBR-S
M461B	23504953	Anode Cable
M461F	23504203	Cable, Forcus
M461S	23504204	Cable, Screen
P004	23161702	Terminal, 8P
P402A	23902213	Socket, B-B, 10P
P402B	23368130	Plug, 10P
P403A	23902213	Socket, B-B, 10P
P403B	23368130	Plug, 10P
P501A	23902650	Socket, B-B, 13P
P501B	23367722	Plug, B-B,13P
P502A	23902655	Socket, B-B, 15P
P502B	23367724	Plug, B-B,15P
P512A	23902863	Socket, 20P
P512B	23368520	Plug, B-B, 20P
P513A	23902863	Socket, 20P
P513B	23368520	Plug, B-B, 20P
P661	23363607	Jack, Headphone
⚠P801	23372052	Power Cord
PA02A	23902064	Socket, B-B, 8P
PA02B	23368006	Plug, B-B, 8P
PF01	23902655	Socket, B-B, 15P
PF01A	23367724	Plug, B-B,15P
PH01	23902604	Socket, 21P
PH02	23902604	Socket, 21P
PH03	23902604	Socket, 21P
PX01A	23902655	Socket, B-B, 15P
PX01B	23367724	Plug, B-B,15P
PX02A	23902781	Socket, B-B, 12P
PX02B	23368531	Plug, B-B, 12P
S601	23344367	Switch, Slide, 6C2P
⚠S801	23344416	Switch, Power
SA01	23145430	Switch, Push, 1C1P
SA02	23145430	Switch, Push, 1C1P
SA03	23145430	Switch, Push, 1C1P
SA04	23145430	Switch, Push, 1C1P
SA05	23145430	Switch, Push, 1C1P
SA06	23145430	Switch, Push, 1C1P
⚠SR83	23146571	Relay
⚠V901A	23902965	Socket, CRT, 10P
W661	23351143	Speaker, SPK-1400, 60X120mm, 8 ohm
W662	23351143	Speaker, SPK-1400, 60X120mm, 8 ohm
W663	23351133	Speaker, SPK-1392, 100X100mm, 16 ohm
X4401	23153721	Ceramic Resonator, 503kHz, TCR1023
X501	23153438	Crystal, 16.200MHz
XA03	23153394	Crystal, 16.000000MHz
XF01	23153421	Crystal, 20.48MHz
Z420	23144539	Protector, PRF20005491, 125V, 2A
Z871	23144543	Protector, PRF50005491, 125V, 5A
Z890	23144543	Protector, PRF50005491, 125V, 5A
Z891	23144543	Protector, PRF50005491, 125V, 5A
Z894	23144539	Protector, PRF20005491, 125V, 2A
Z896	23144539	Protector, PRF20005491, 125V, 2A
Z897	23144539	Protector, PRF20005491, 125V, 2A
Z898	23144539	Protector, PRF20005491, 125V, 2A
ZD02	23103839	Ferrite Core, TFE1012
ZX101	23103852	Filter, TEM2028AH
ZX201	23103823	Coil, TEM2027D
ZX202	23103823	Coil, TEM2027D
ZX321	23103823	Coil, TEM2027D
ZX341	23103823	Coil, TEM2027D
ZX361	23103823	Coil, TEM2027D
ZX401	23303181	Filter, TEM1012N
ZX402	23303181	Filter, TEM1012N

PC BOARD ASSEMBLIES

✻U102A	23785883	BACK-T Board, PB9950A (36ZP18P/32ZP18P)
✻U102B	23785894	DIGITAL-IN Board, PB9950-2 (36ZP18P/32ZP18P)
✻U102B	23785894	DIGITAL-IN Board, PB9950-2 (36ZP18P/32ZP18P)
✻U103	23784878	D-COMB&MCD Board, PB9510A (36ZP18P/32ZP18P)
✻U104	23786081	TEXT Board, PB9411D (36ZP18P/32ZP18P)
✻U105	23785888	DFS SDRAM Board, PB9954 (36ZP18P/32ZP18P)
✻U901A	23785889	CRT-D Board, PB9955A (36ZP18P/32ZP18P)
✻U902	23708312	Signal/BLA Board, PD0039A (36ZP18P)
✻U902	23708373	Signal/BLA Board, PD0039B (32ZP18P)
✻U903	23786080	Power Board, PB9515K (36ZP18P/32ZP18P)
✻U904A	23785884	DEF Board, PB9951A (36ZP18P)
✻U904A	23786103	DEF Board, PB9951B (32ZP18P)
✻U905	23786079	EW100HZ Board, PB9517D (36ZP18P)
✻U905	23786201	EW100HZ Board, PB9517E (32ZP18P)
✻U906A	23785906	LED Board, PB9952A (36ZP18P/32ZP18P)
✻U906B	23785907	CONT Board, PB9952A (36ZP18P/32ZP18P)

PICTURE TUBE

⚠V901	23312917	Picture Tube, W86LTQ350X99 (36ZP18P)
⚠V901	23312927	Picture Tube, W76LTR350X99 (32ZP18P)

TUNER

H001	23321343	Tuner, EGA22LW

ACCESSORIES

K902	23306365	Remote Hand Unit, CT-90042
AT03	23588265	Battery Cover
Y101	23565220	Owner's Manual, English, 36ZP18P

Location No.	Part No.	Description
Y101	23565225	Owner's Manual, English, 32ZP18P
Y102	23565221	Owner's Manual, French, 36ZP18P/32ZP18P
Y103	23565222	Owner's Manual, German, 36ZP18P/32ZP18P
Y104	23565223	Owner's Manual, Italian, 36ZP18P/32ZP18P
Y105	23565224	Owner's Manual, Spanish, 36ZP18P/32ZP18P
Y106	23565321	Owner's Manual, Portugues, 36ZP18P/32ZP18P
Y131	23565196	Owner's Manual, QSUG 2001, 36ZP18P/32ZP18P

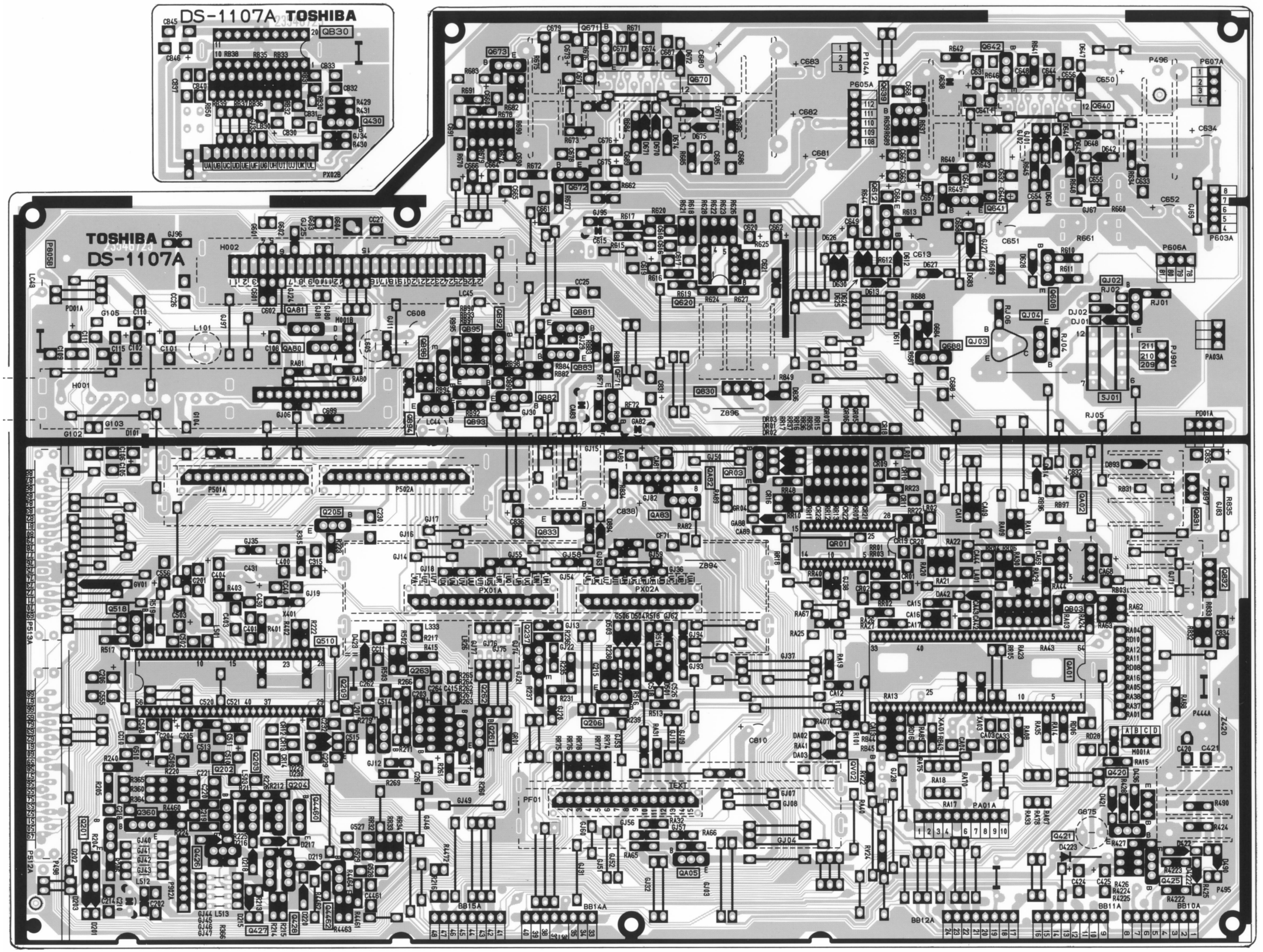
CABINET PARTS

Location No.	Part No.	Description
A201	23540534	Front Cover (36ZP18P)
A201	23540596	Front Cover (32ZP18P)
A354	23035412	Screw, BTB4X12SZN
⚠A401	23540536	Back Cover (36ZP18P)
⚠A401	23540598	Back Cover (32ZP18P)
A411	23553028	Label (36ZP18P)
A411	23553094	Label (32ZP18P)
A701	23064495	Carton (36ZP18P)
A701	23064534	Carton (32ZP18P)
A702	23946161	Packing (36ZP18P)
A702	23946173	Packing (32ZP18P)
A703	23946162	Packing (36ZP18P)
A703	23946171	Packing (32ZP18P)
A902	23427959	Door
A903	23451976	Push, Catch
A904B	23445405	Button, Power Rear
A904C	23035312	Screw, BTB3X12SZN

Location No.	Part No.	Description

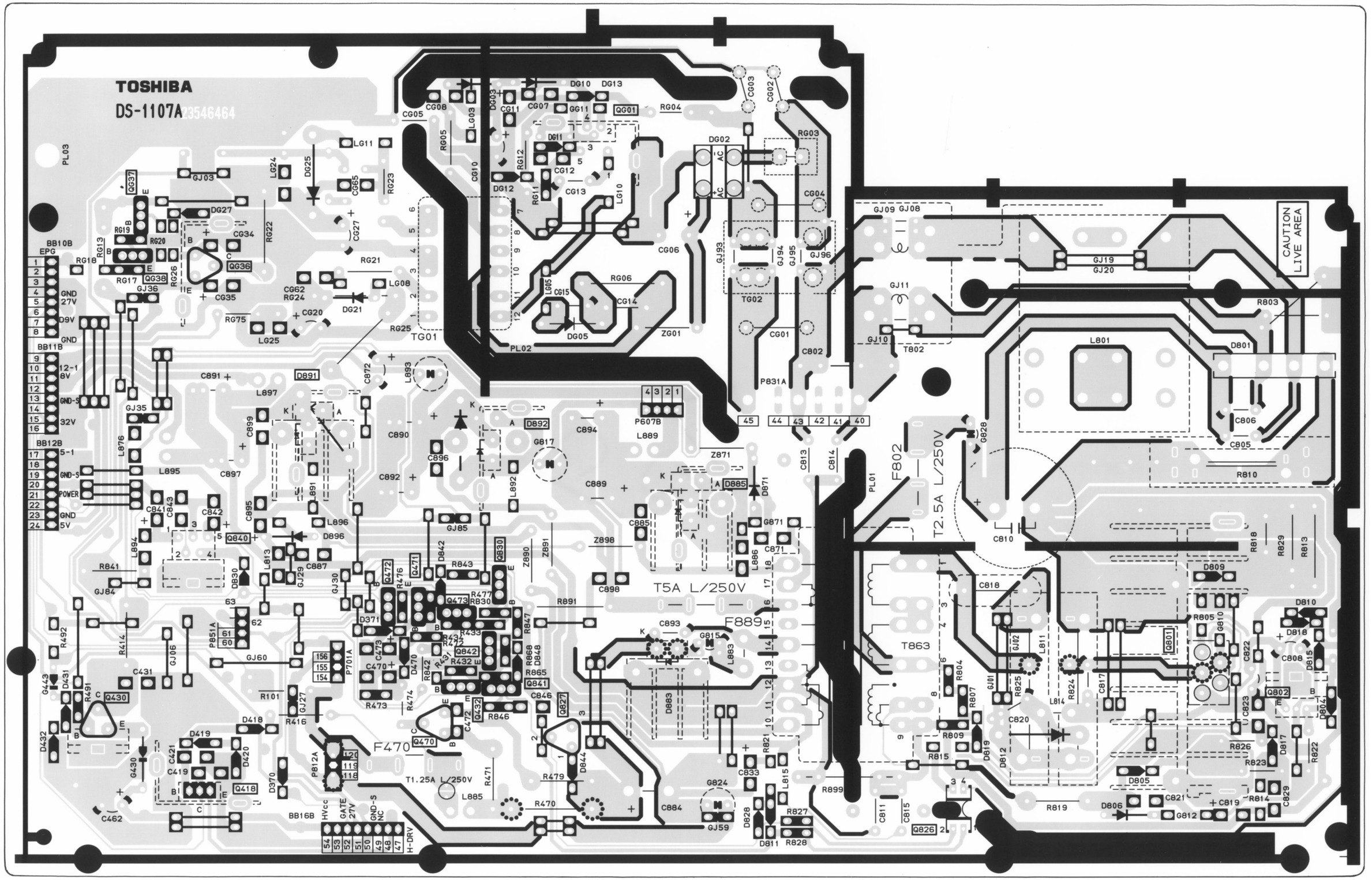
SIGNAL BOARD PD0039A
SIGNAL BOARD PD0039B

BOTTOM (FOIL) SIDE



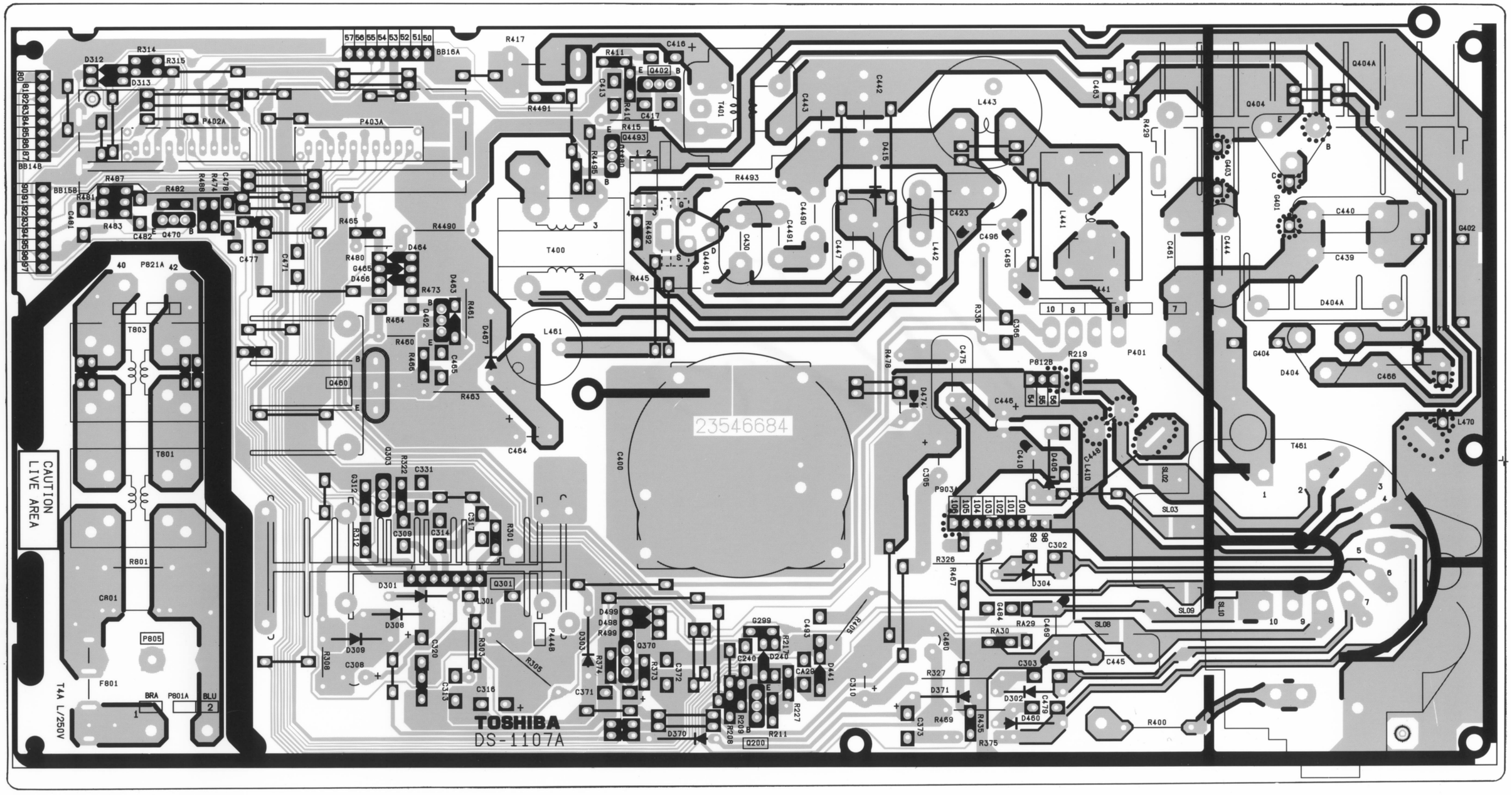
POWER BOARD PB9515K

BOTTOM (FOIL) SIDE



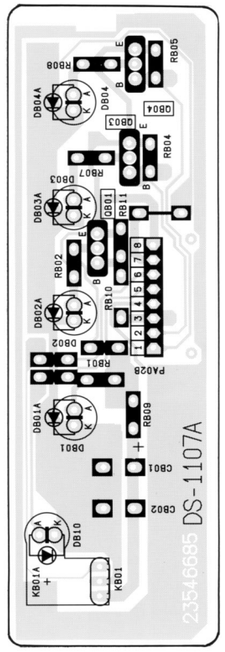
DEF BOARD PB9951A
DEF BOARD PB9951B

BOTTOM (FOIL) SIDE



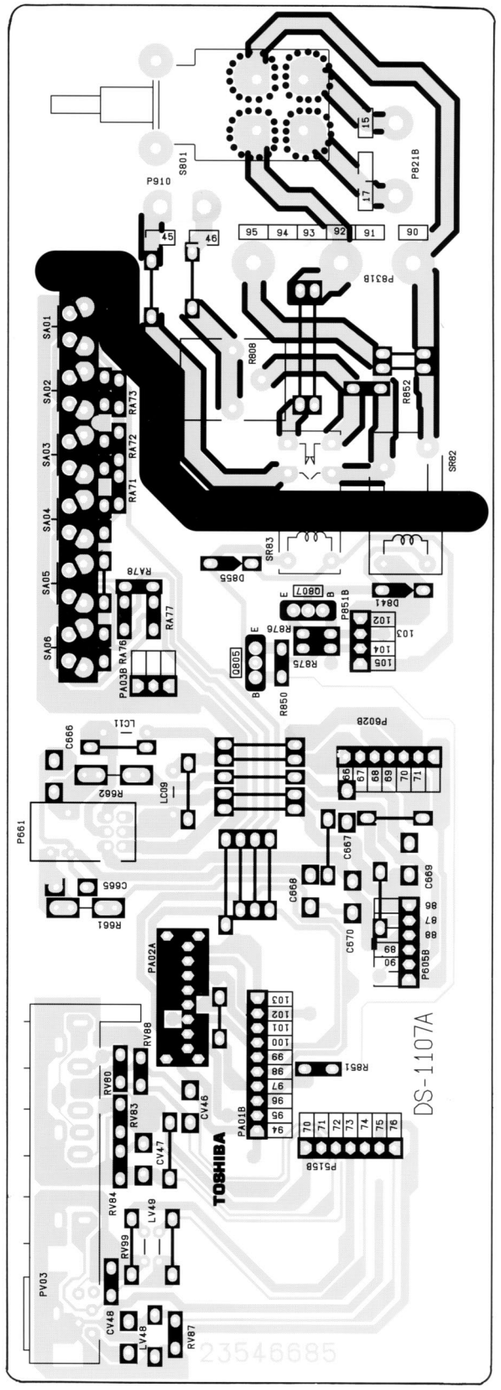
LED BOARD PB9952A-2

BOTTOM (FOIL) SIDE



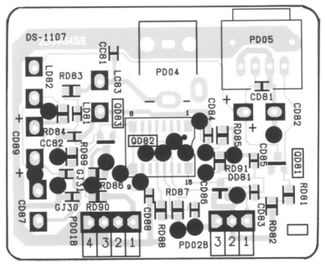
CONTROL BOARD PB9952A-1

BOTTOM (FOIL) SIDE



DIGITAL-IN BOARD PB9950A-2

BOTTOM (FOIL) SIDE

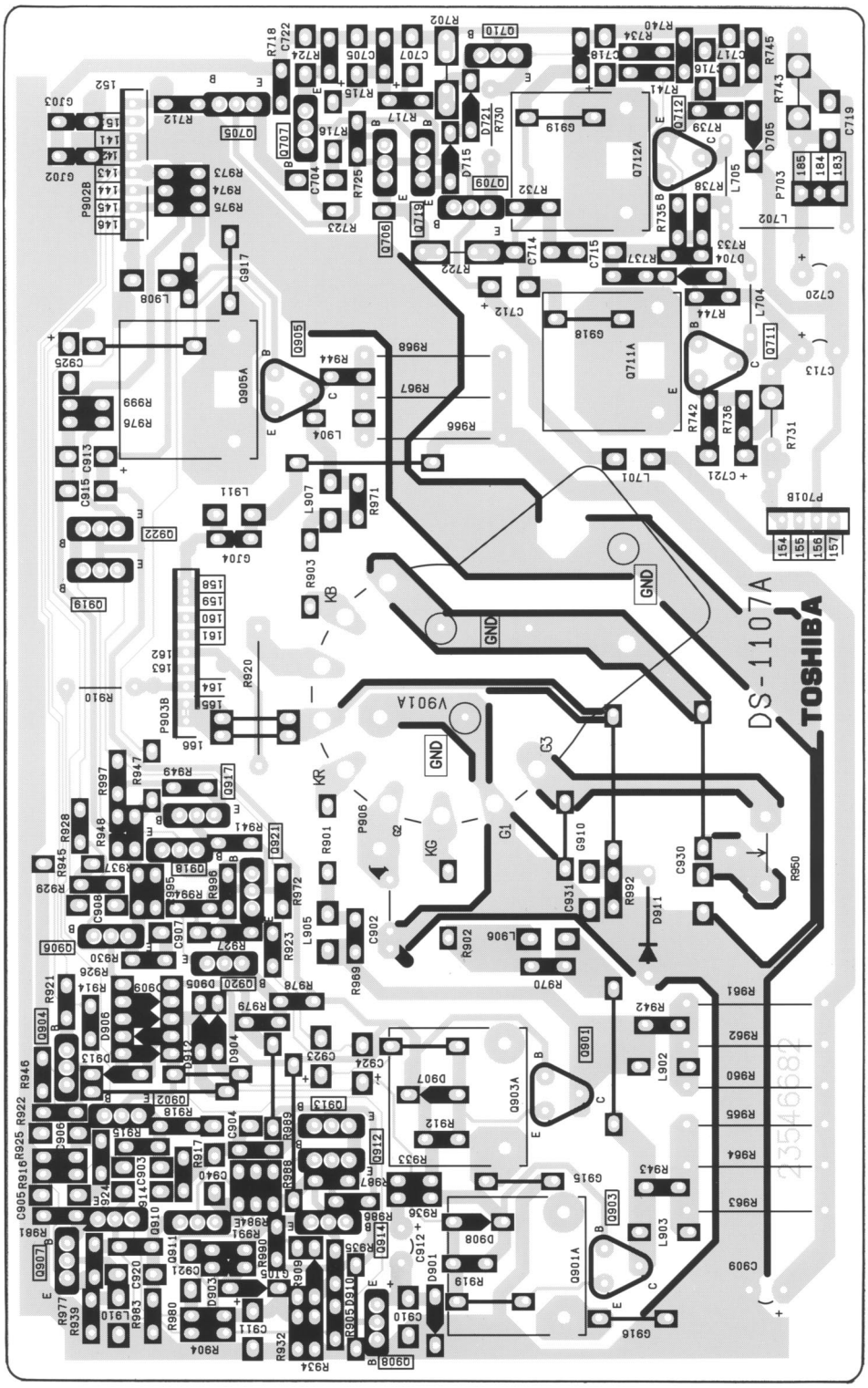


BACK/T BOARD PB9950A-1

BOTTOM (FOIL) SIDE

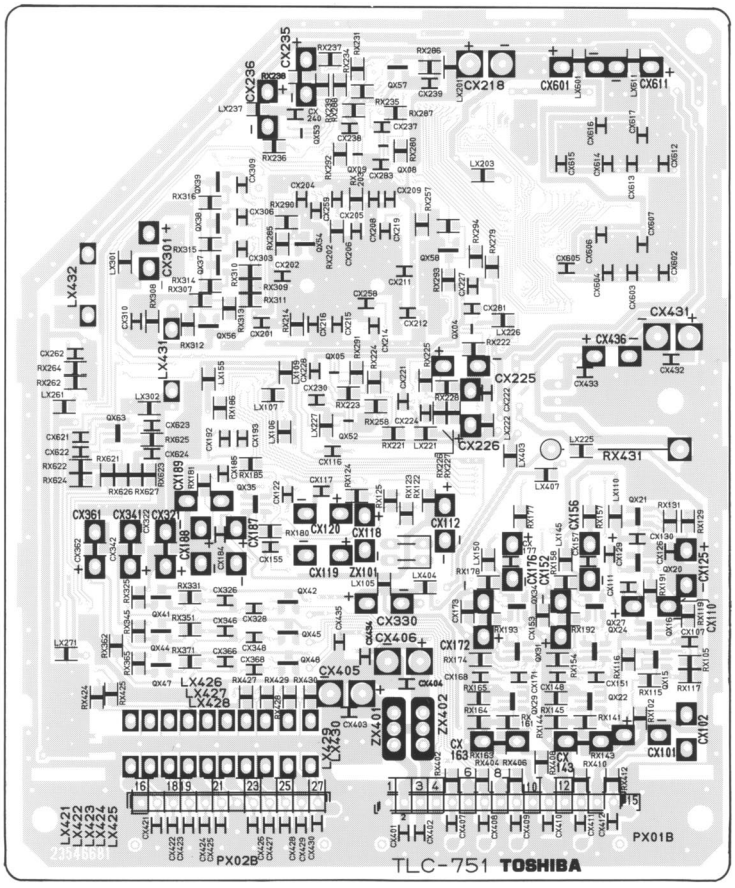
CRT DRIVE/DSM BOARD PB9955A

BOTTOM (FOIL) SIDE



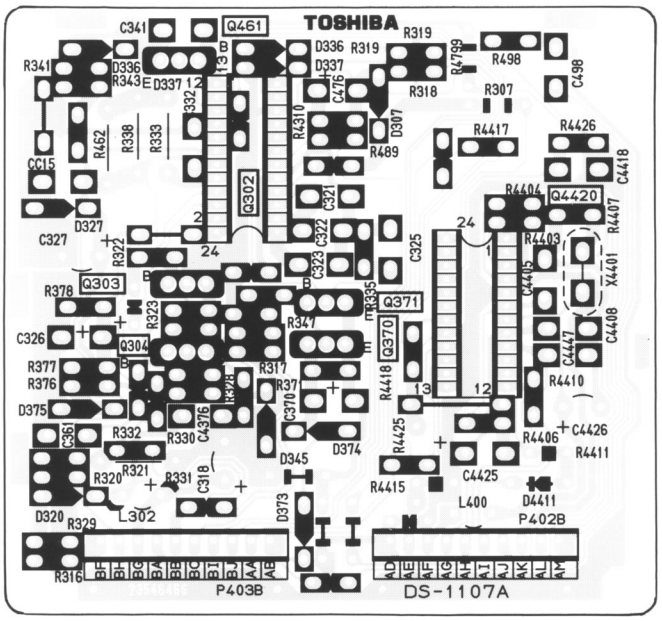
DFS BOARD PB9954A

BOTTOM (FOIL) SIDE



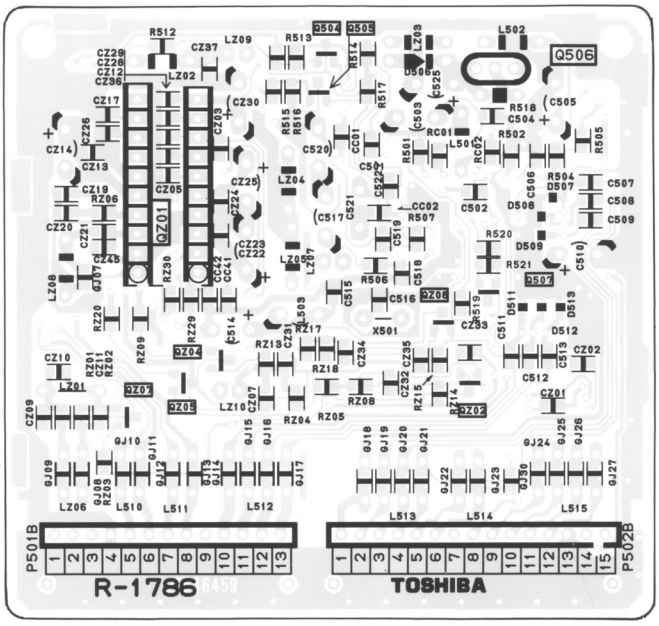
EW100Hz BOARD PB9517D
EW100Hz BOARD PB9517E

BOTTOM (FOIL) SIDE



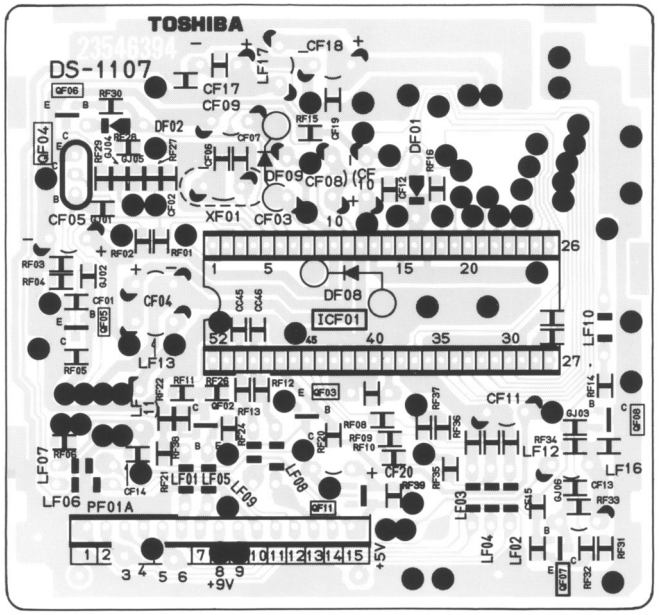
D-COMB BOARD PB9510A

BOTTOM (FOIL) SIDE



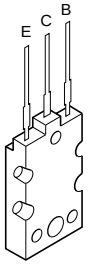
EPG-TEXT BOARD PB9411D

BOTTOM (FOIL) SIDE

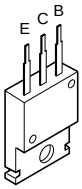


TERMINAL VIEW OF TRANSISTORS

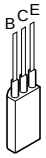
① 2SD2253
(old)
2SC5243
2SC5570



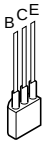
② 2SC3852
2SD1763A
2SC1569
2SC4544
2SA1788
2SA1306
2SA1186A



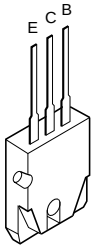
③ 2SC752GTM
2SC2482
2SC2655
2SC4721P



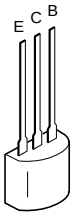
④ 2SC752
2SA562TM
2SA1015
2SC1815
2SC2878
2SC1740S
2SC2120
2SA9335



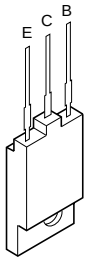
⑤ 2SA1788



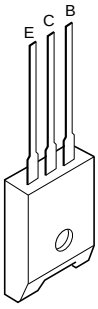
⑥ RN2203
RN2201
RN2004
RN1203
RN1204
RN2204
RN1205
RN1202
RN1201



⑦ 2SD1554
2SD2253
2SD1556
2SC5143
2SD2553



⑧ ON4409



SCHEMATIC DIAGRAM

MODEL : 36ZP18P / 32ZP18P

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

NOTE:

1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt 1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
   —|+|— Electolytic capacitor —|M|— Mylar capacitor
3. The parts indicated with " ⚠ " have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

■ **SCHEMATIC DIAGRAM STRUCTURE:**

- SIGNAL / CONVER Circuit
- POWER / EW100Hz / TEXT Circuit
- DFS Ver4.01 Dual SDRAM Circuit
- D-COMB & MCD PART Circuit
- BACK AV / BACK Digital-IN Circuit
- CONTROL / LED Circuit
- CRT-D Circuit
- DEF Circuit

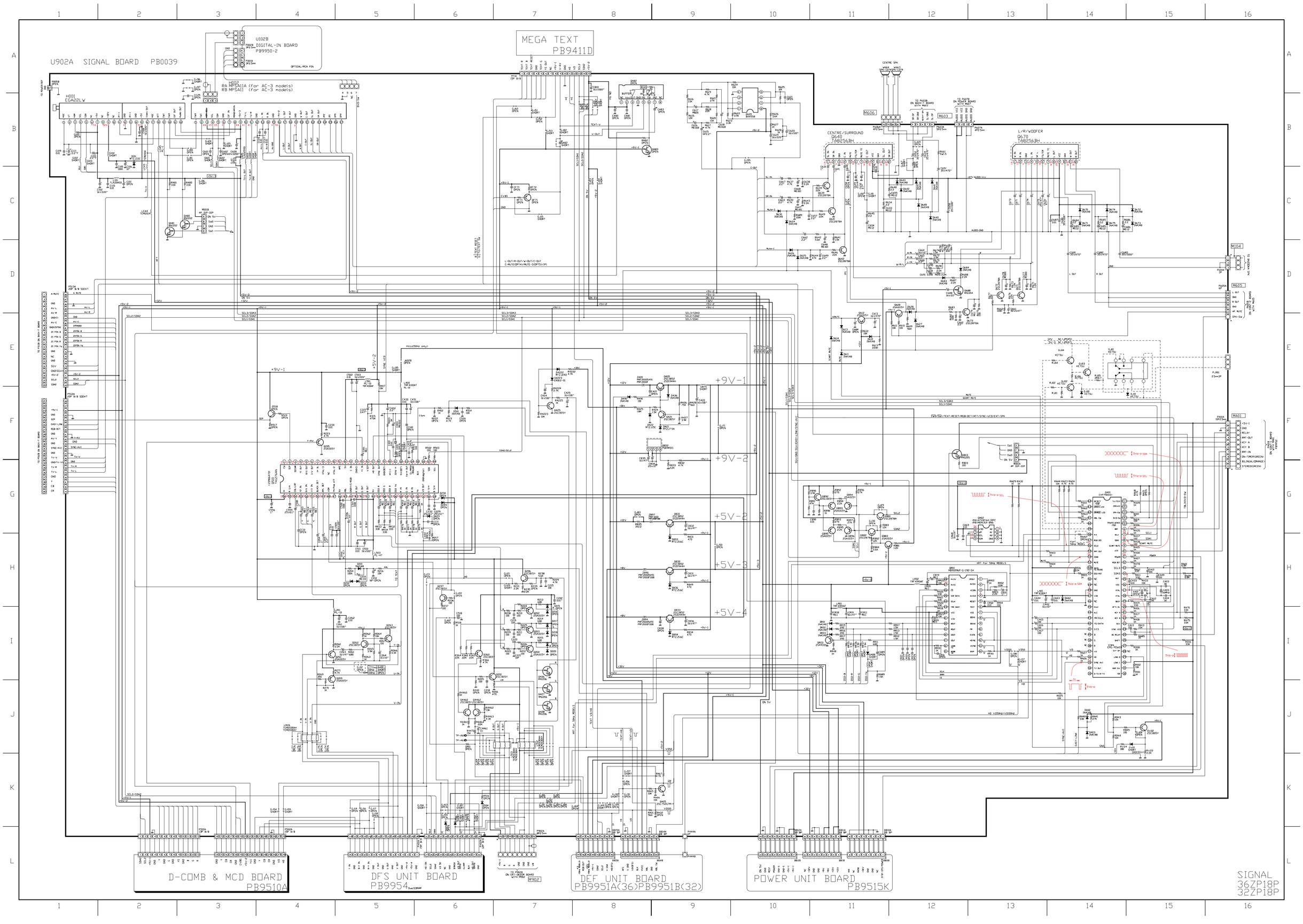
SCHEMATIC DIAGRAM MODEL : 36ZP18P / 32ZP18P

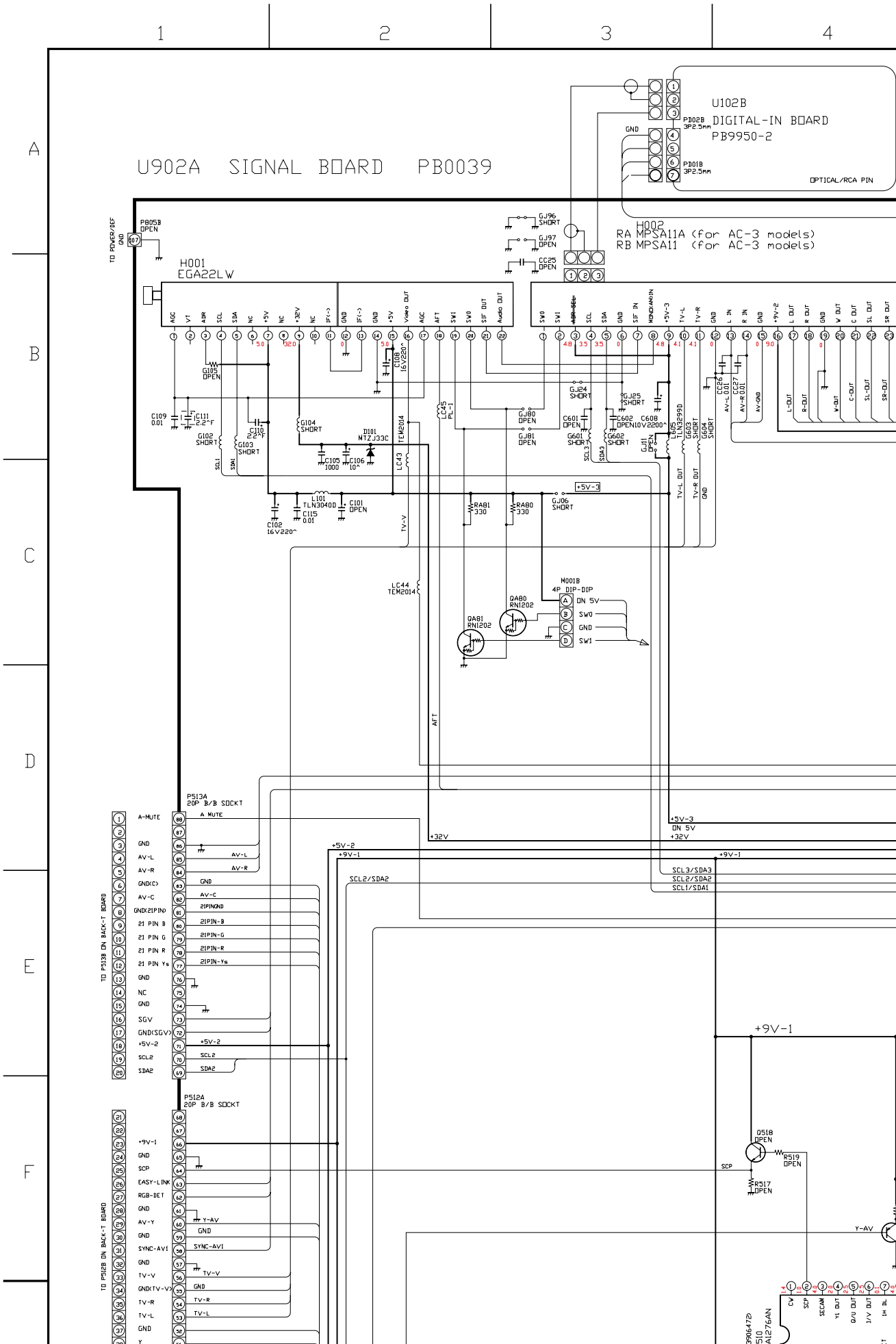
WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

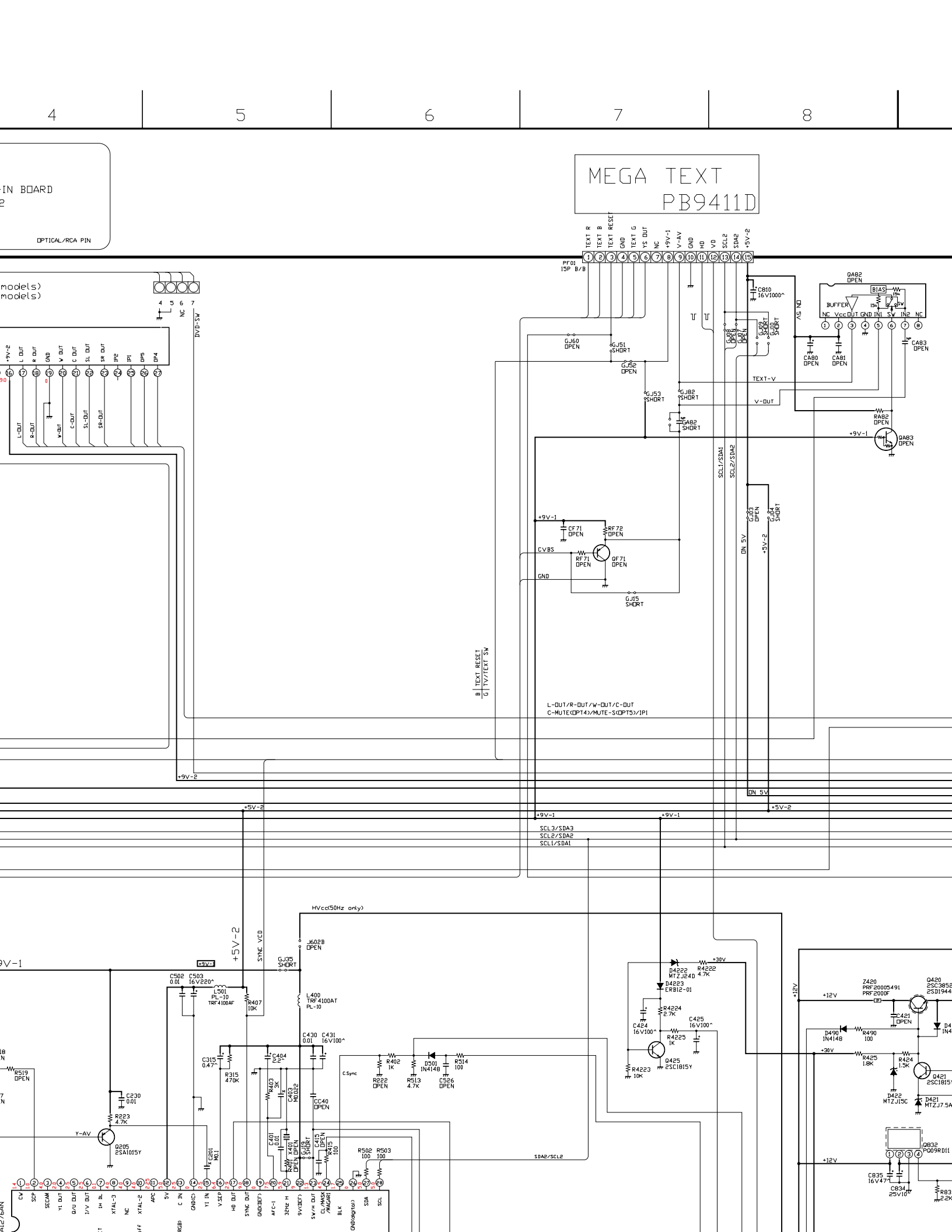
CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

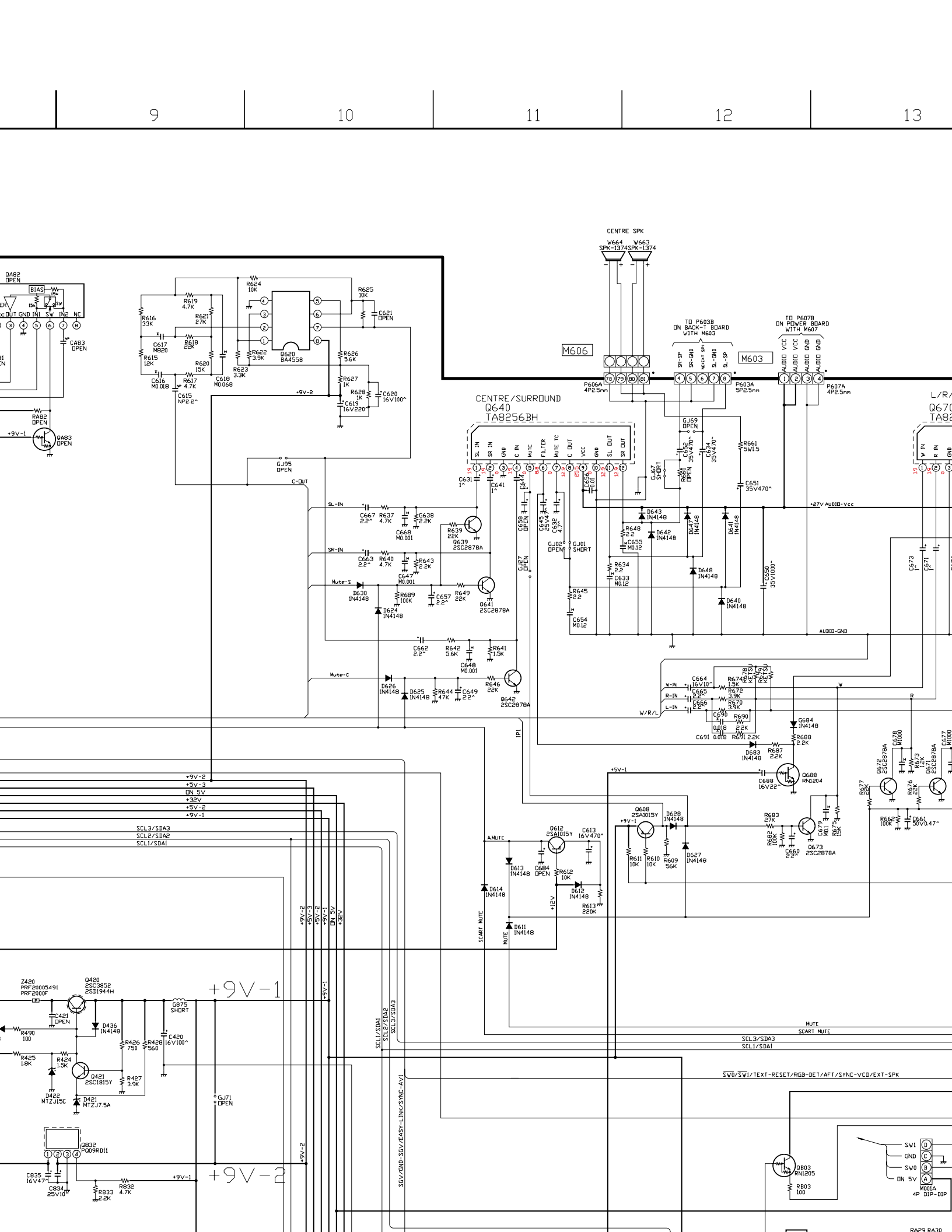
NOTE:

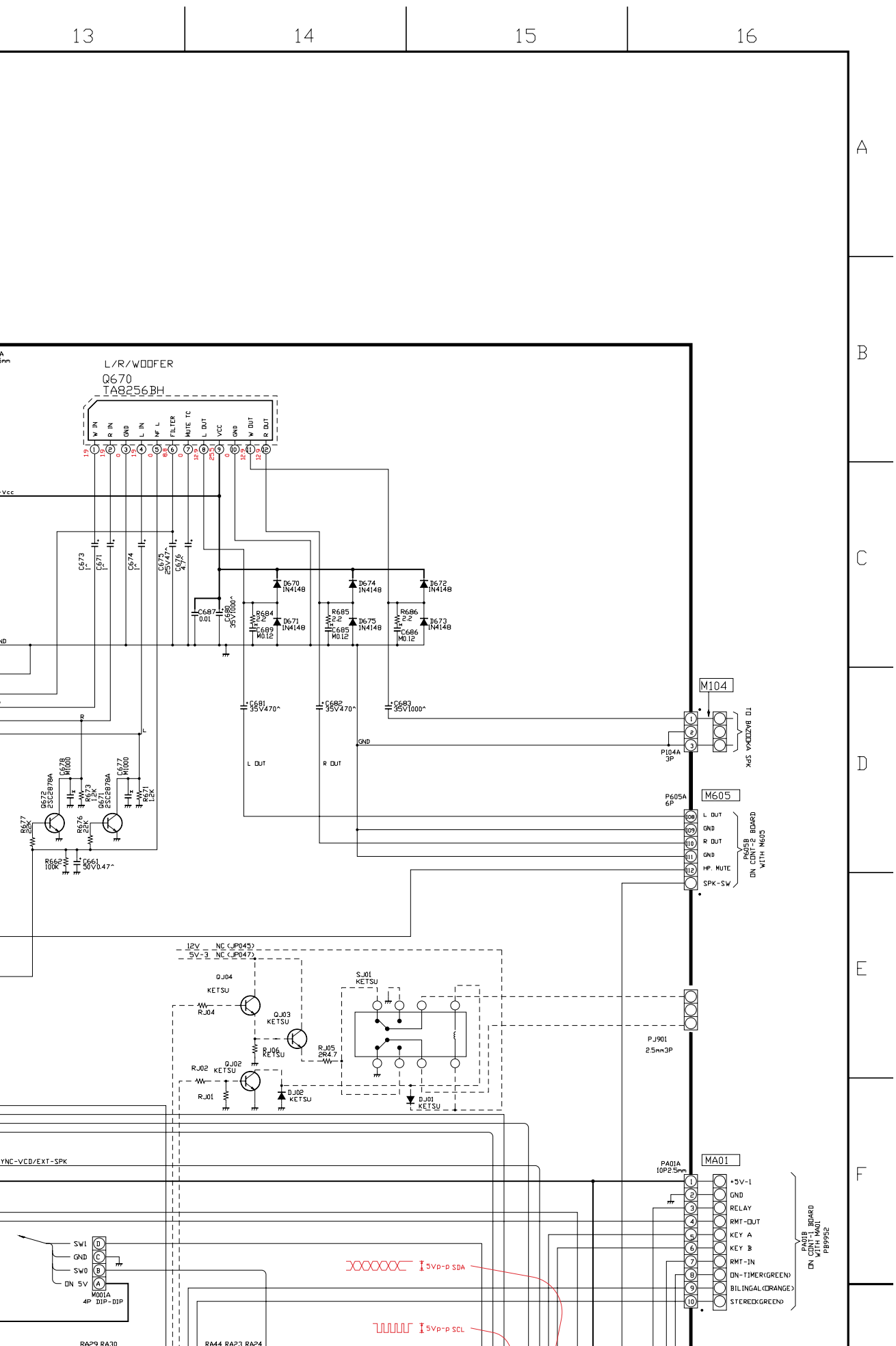
1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000], All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt 1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
   —|+|— Electolytic capacitor —||— Mylar capacitor
3. The parts indicated with " ⚠ " have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

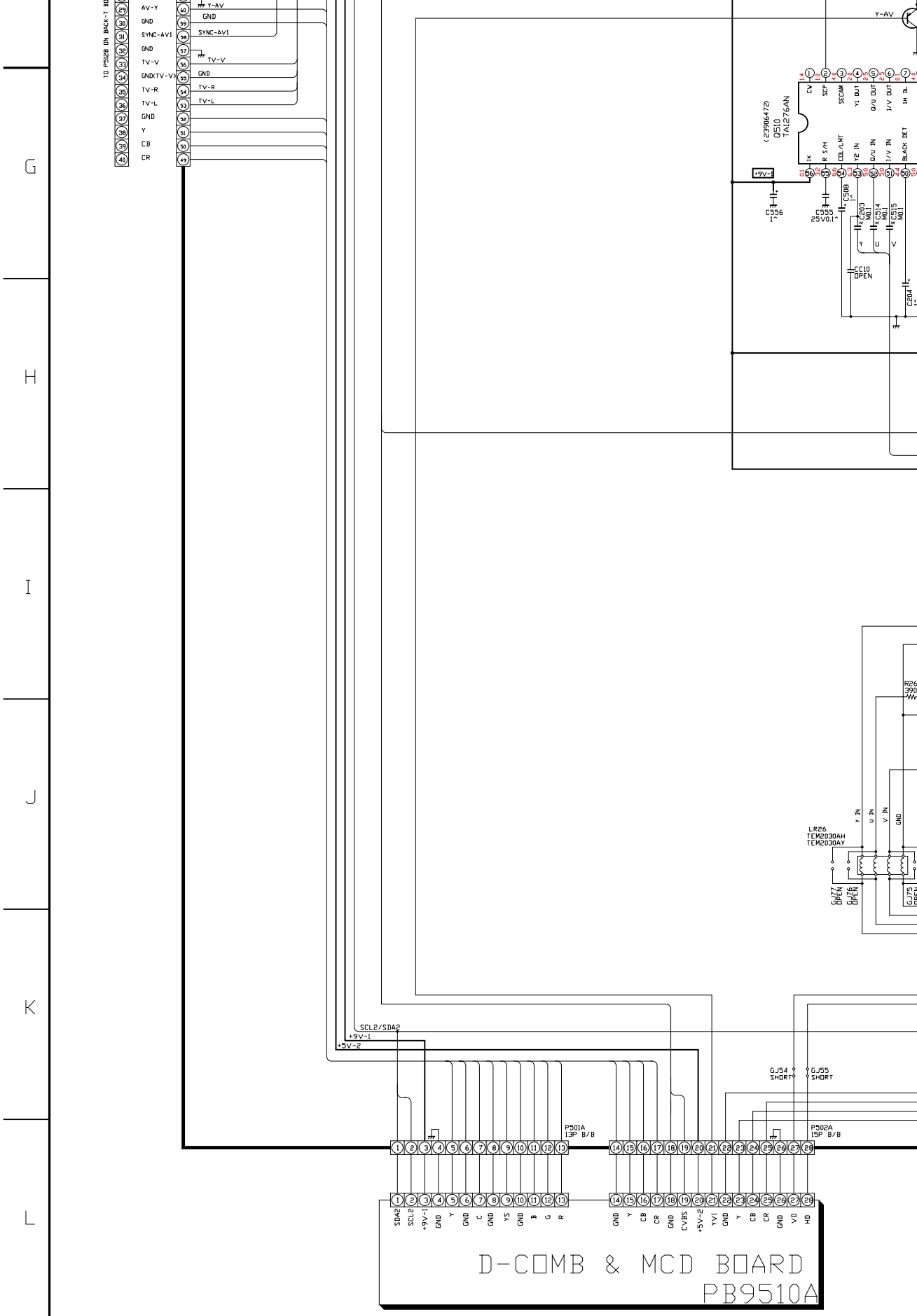


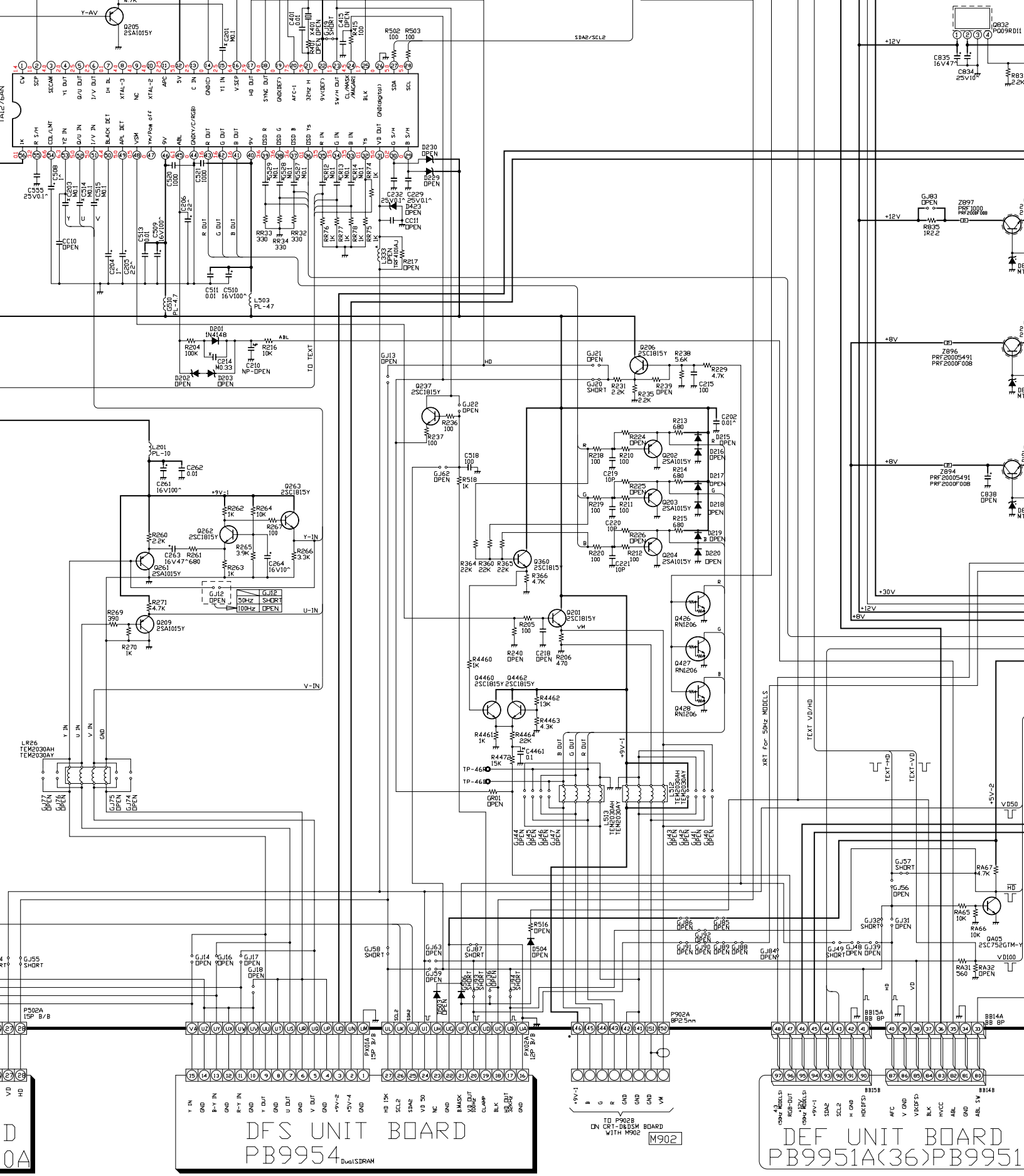

U902A SIGNAL BOARD PB0039
U102B
DIGITAL-IN BOARD
PB9950-2
OPTICAL/RCA PIN
H001
EGA22LW
H002
RA MPSA11A (for AC-3 models)
RB MPSA11 (for AC-3 models)
P513A
20P B/B SOCKT
P512A
20P B/B SOCKT
TO P513B ON BACK-T BOARD
TO P512B ON BACK-T BOARD
M001B
4P DIP-DIP
+5V-3
+9V-1
+5V-2
+32V
AFT
SCL2/SDA2
SCL3/SDA3
SCL1/SDA1
Y-AV
SCP


4
5
6
7
8
MEGA TEXT
PB9411D
-IN BOARD
2
OPTICAL/RCA PIN
models)
models)
DVD-SW
TEXT R
TEXT B
TEXT RESET
GND
TEXT G
YS OUT
NC
+9V-1
V-AV
GND
HD
VD
SCL2
SDA2
+5V-2
PF01
15P B/B
C810
16V1000^
QA82
OPEN
BIAS
BUFFER
NC Vcc OUT GND IN1 SW IN2 NC
CA80
OPEN
CA81
OPEN
CA83
OPEN
GJ60
OPEN
GJ51
SHORT
GJ52
OPEN
GJ53
SHORT
GJ82
SHORT
CA82
SHORT
TEXT-V
V-OUT
RA82
OPEN
QA83
OPEN
+9V-1
SCL1/SDA1
SCL2/SDA2
ON 5V
GJ83
OPEN
GJ84
SHORT
+5V-2
CF71
OPEN
RF72
OPEN
CVBS
RF71
OPEN
QF71
OPEN
GND
GJ15
SHORT
B TEXT RESET
G TV/TEXT SW
L-OUT/R-OUT/W-OUT/C-OUT
C-MUTE(OPT4)/MUTE-S(OPT5)/1P1
+9V-2
+5V-2
+9V-1
SCL3/SDA3
SCL2/SDA2
SCL1/SDA1
HVcc(50Hz only)
+5V-2
SYNC VCD
J602B
OPEN
GJ35
SHORT
L400
TRF4100AT
PL-10
C502
0.01
C503
16V220^
L501
PL-10
TRF4100AF
R407
10K
C315
0.47^
R315
470K
C404
2.2^
C430
0.01
C431
16V100^
R402
1K
R222
OPEN
D501
1N4148
R513
4.7K
R514
100
C526
OPEN
C.Sync
C40
OPEN
R403
2.2K
C403
M0.022
R519
OPEN
C230
0.01
R223
4.7K
Y-AV
Q205
2SA1015Y
C401
0.01
X401
OPEN
C415
OPEN
R415
100
R502
100
R503
100
SDA2/SCL2
D4222
MTZJ24D
R4222
4.7K
+30V
D4223
ERB12-01
R4224
2.7K
C424
16V100^
R4225
1K
C425
16V100^
Q425
2SC1815Y
R4223
10K
+12V
Z420
PRF20005491
PRF2000F
Q420
2SC3852
2SD1944
C421
OPEN
D490
1N4148
R490
100
R425
1.8K
R424
1.5K
Q421
2SC1815
D422
MTZJ15C
D421
MTZJ7.5A
Q832
PQ09RD11
C835
16V47^
C834
25V1^
R83
2.2K
CV
SCP
SECAM
Y1 OUT
G/U OUT
I/V OUT
IH BL
XTAL-3
NC
XTAL-2
APC
5V
C IN
GND(C)
Y1 IN
V-SEP
H/D OUT
SYNC OUT
GND(DEF)
AFC-1
32Hz H
9V(DEF)
SW/H OUT
CL/MASK
/MAGAR1
BLK
GND(digital)
SDA
SCL

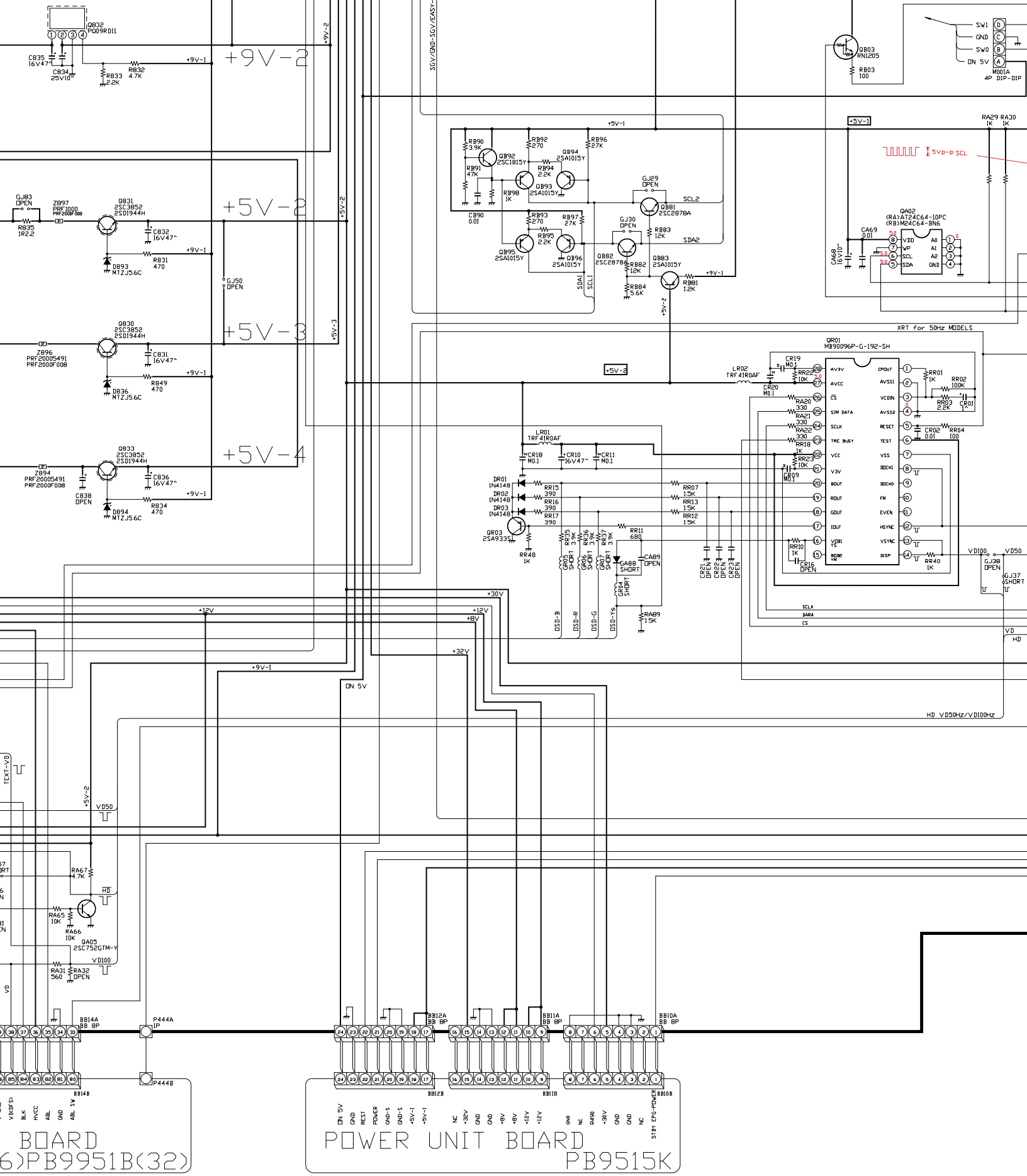

9
10
11
12
13
CENTRE SPK
W664 SPK-1374
W663 SPK-1374
M606
M603
TO P603B ON BACK-T BOARD WITH M603
TO P607B ON POWER BOARD WITH M607
P606A 4P2.5mm
P603A 5P2.5mm
P607A 4P2.5mm
CENTRE/SURROUND
Q640
TA8256BH
L/R
Q670
TA82
SL IN
SR IN
GND
C IN
MUTE
FILTER
MUTE TC
C OUT
VCC
GND
SL OUT
SR OUT
C-OUT
SL-IN
SR-IN
Mute-S
Mute-C
+27V AUDIO-Vcc
AUDIO-GND
W-IN
R-IN
L-IN
W/R/L
IP1
+9V-2
+5V-3
DN 5V
+32V
+5V-2
+9V-1
+5V-1
+12V
AMUTE
SCART MUTE
MUTE
SCL3/SDA3
SCL2/SDA2
SCL1/SDA1
SW0/SW1/TEXT-RESET/RGB-DET/AFT/SYNC-VCD/EXT-SPK
SGV/GND-SGV/EASY-LINK/SYNC-AV1
+9V-1
+9V-2
Z420
PRF20005491
PRF2000F
Q420
2SC3852
2SD1944H
Q421
2SC1815Y
D421
MTZJ7.5A
D422
MTZJ15C
Q832
PQ09RD11
Q608
2SA1015Y
Q612
2SA1015Y
Q688
RN1204
Q803
RN1205
Q672
2SC2878A
Q671
2SC2878A
Q673
2SC2878A
Q639
2SC2878A
Q641
2SC2878A
Q642
2SC2878A
Q620
BA4558
SW1
GND
SW0
DN 5V
M001A
4P DIP-DIP
RA29 RA30

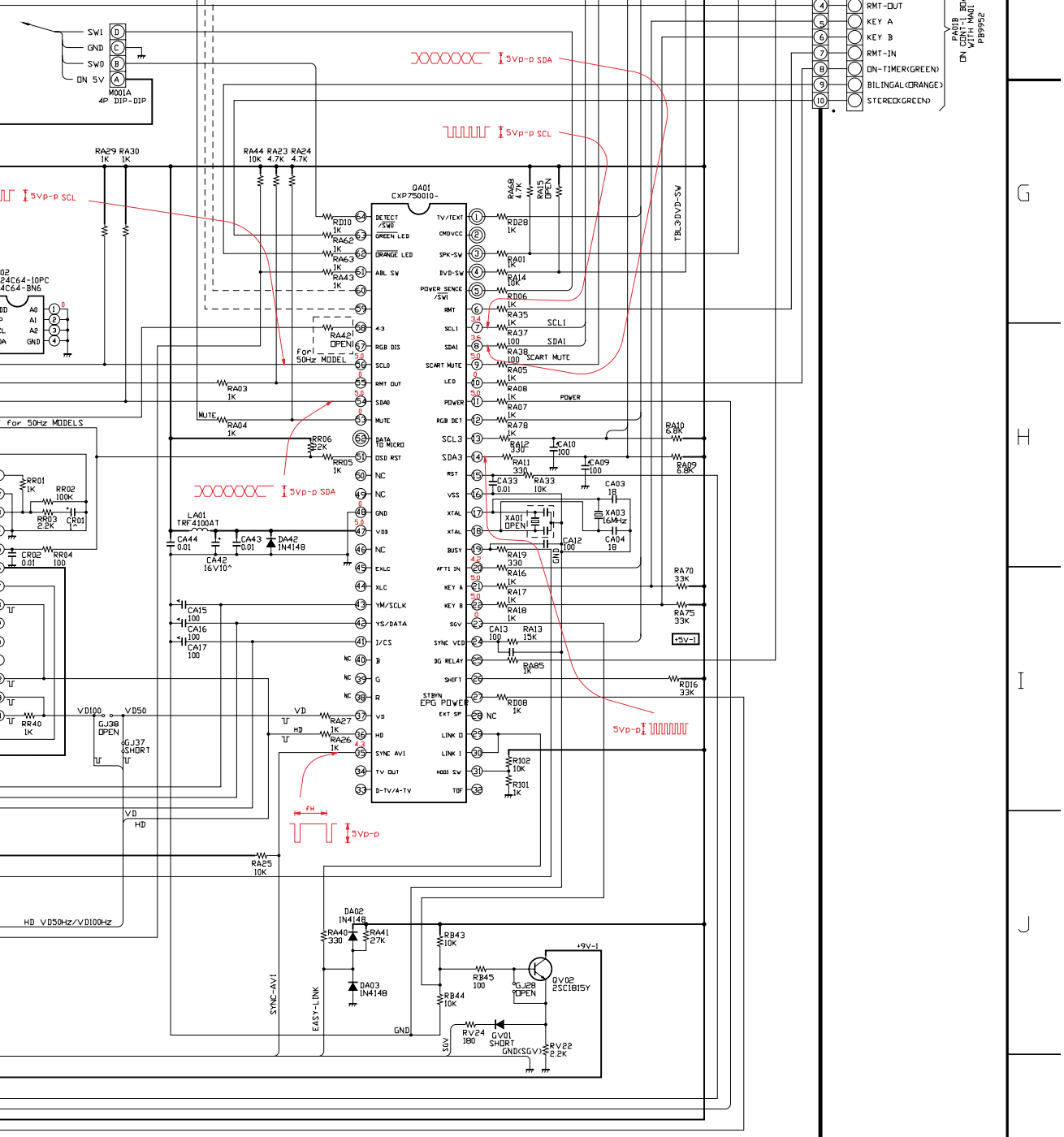

13
14
15
16
A
B
C
D
E
F
L/R/WOOFER
Q670
TA8256BH
W IN
R IN
GND
L IN
NF L
FILTER
MUTE TC
L OUT
VCC
GND
W OUT
R OUT
+Vcc
C673 1^
C671 1^
C674 1^
C675 25V47^
C676 4.7^
D670 IN4148
D674 IN4148
D672 IN4148
C687 0.01
C680 35V1000^
R684 2.2 1/2W
D671 IN4148
C689 M0.12
R685 2.2 1/2W
D675 IN4148
C685 M0.12
R686 2.2 1/2W
D673 IN4148
C686 M0.12
C681 35V470^
C682 35V470^
C683 35V1000^
L OUT
R OUT
GND
M104
P104A 3P
D1 BK2000A SPK
P605A 6P
M605
L OUT
GND
R OUT
GND
HP. MUTE
SPK-SW
P605B DN CON1-2 BOARD WITH M605
D672 2SC2878A
C678 M1000
R673 82K
R671 12K
D671 2SC2878A
C677 M1000
R677 22K
R676 22K
R662 100K
E661 50V0.47^
12V
5V-3
NC (JP049)
NC (JP047)
QJ04 KETSU
RJ04
QJ03 KETSU
RJ06 KETSU
RJ05 2R4.7
QJ02 KETSU
RJ02
RJ01
DJ02 KETSU
SJ01 KETSU
DJ01 KETSU
PJ901 2.5mm3P
SYNC-VCD/EXT-SPK
PA01A 10P2.5mm
MA01
+5V-1
GND
RELAY
RMT-OUT
KEY A
KEY B
RMT-IN
DN-TIMER(GREEN)
BILINGAL(ORANGE)
STEREO(GREEN)
PA01B DN CON1-1 BOARD WITH MA01 PB9952
SW1
GND
SW0
DN 5V
M001A 4P DIP-DIP
5Vp-p SDA
5Vp-p SCL
RA29 RA30
RA44 RA23 RA24


TO P5028 ON BACK-T BOARD
AV-Y
GND
SYNC-AV1
GND
TV-V
GND(TV-V)
TV-R
TV-L
GND
Y
CB
CR
Y-AV
GND
SYNC-AV1
TV-V
GND
TV-R
TV-L
Y-AV
<2390647D
Q510
TA1276AN
+9V-1
C336
C555
25V0.1
C508
C203
C514
C515
CC10
OPEN
LR26
TEM2030AH
TEM2030AY
Y IN
U IN
V IN
GND
GJ77
OPEN
GJ76
OPEN
SCL2/SDA2
+9V-1
+5V-2
GJ54
SHORT
GJ55
SHORT
P501A
13P B/B
P502A
15P B/B
SDA2
SCL2
+9V-1
GND
Y
GND
C
GND
YS
GND
B
G
R
GND
Y
CB
CR
GND
CVBS
+5V-2
YV1
GND
Y
CB
CR
GND
VD
HD
D-COMB & MCD BOARD
PB9510A


DFS UNIT BOARD
PB9954 Dual SDRAM
DEF UNIT BOARD
PB9951A(36)PB9951
TO P9028
ON CRT-D&DSM BOARD
WITH M902
M902
TO TEXT
XRT For 50Hz MODELS
TEXT VD/HD
P502A
15P B/B
P902A
8P2.5mm
PX01A
15P B/B
PX02A
12P B/B
BB15A
BB 8P
BB14A
BB 8P
Y-AV
Y-IN
U-IN
V-IN
SDA2/SCL2
+12V
+8V
+30V
+9V-1
+5V-2
VD50
VD100
HD
VD
TP-46H
TP-46L

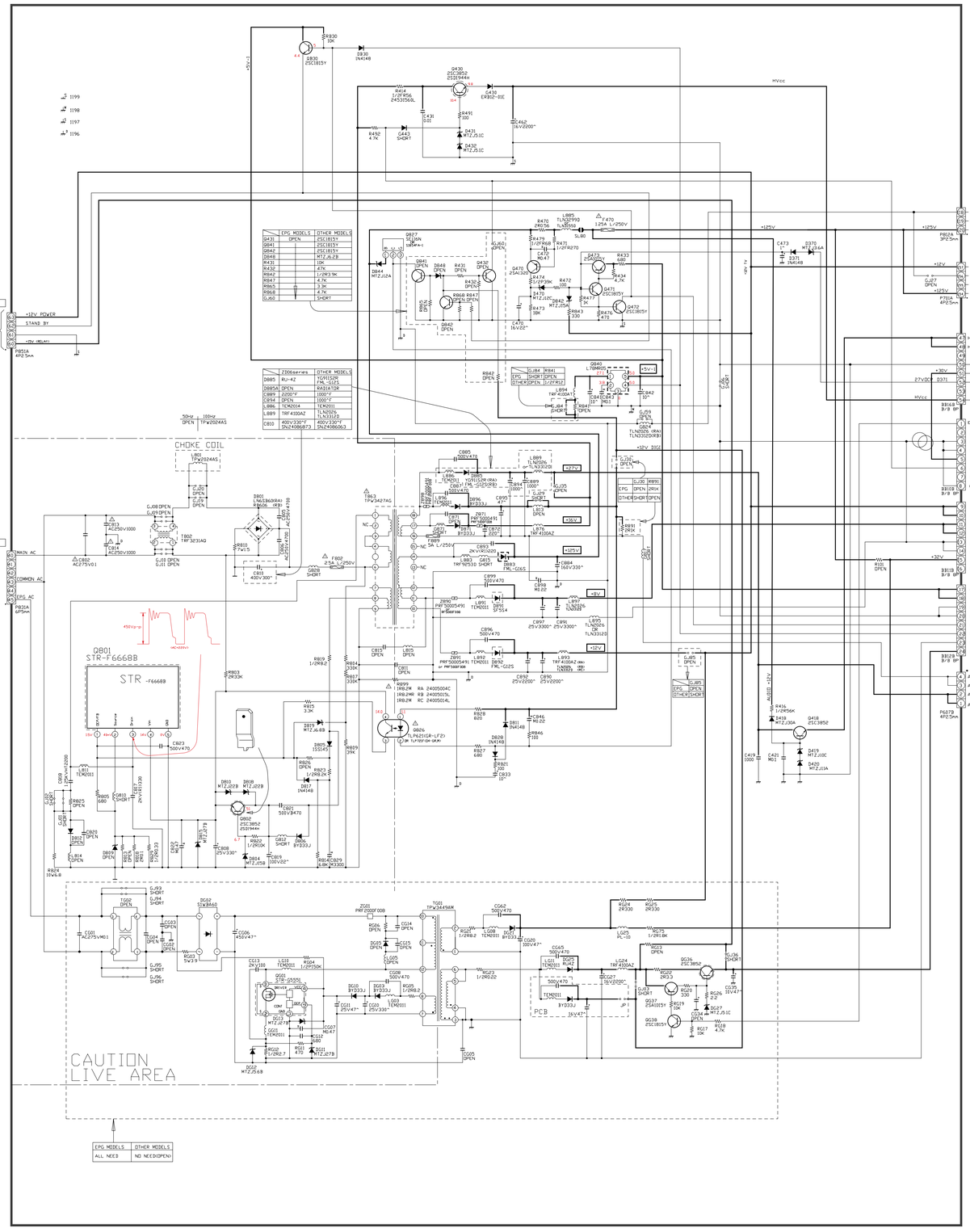
4	5	6	7	8


+9V-2
+5V-2
+5V-3
+5V-4
5GV/GND-5GV/EAST-
SW1
GND
SW0
DN 5V
M001A
4P DIP-DIP
+5V-1
5Vp-p SCL
SCL2
SDA2
SDA1
SCL1
XRT for 50Hz MODELS
QR01
MB90096P-G-192-SH
+5V-2
+30V
+12V
+8V
+32V
DN 5V
HD VD50Hz/VD100Hz
TEXT-VD
VD50
VD100
BB14A
BB 8P
P444A
1P
P444B
BB12A
BB 8P
BB12B
BB11A
BB 8P
BB11B
BB10A
BB 8P
BB10B
BOARD
6)PB9951B(32)
POWER UNIT BOARD
PB9515K
DN 5V
GND
REST
POWER
GND-S
GND-S
+5V-1
+5V-1
NC
+32V
GND
GND
+8V
+8V
+12V
+12V
GND
NC
R450
+30V
GND
GND
NC
STBY EPG-POWER



SIGNAL
36ZP18P
32ZP18P

U903 POWER BOARD PB9515A



EPG MODELS	OTHER MODELS
Q431	OPEN 2SC1815Y
Q841	2SC1815Y
Q842	2SC1815Y
Q848	MTZJ6.2B
R431	10K
R432	47K
R842	1/2W3.9K
R847	4.7K
R865	3.3K
R868	4.7K
GJ60	SHORT

Z006series	OTHER MODELS
D895	RU-42 TG9115ZR FML-G1JS
D895A	OPEN RA3G1ATDR
D897	4200°C 1000°F
D898	1000°F TLN2014 TLN2011
L889	TRF4100AZ TLN2026 TLN3312D
C810	400V330°F 400V330°F SNZ4086073 SNZ4086063

GJ84	R841
EPG SHORT	OPEN
OTHERS OPEN	1/2W12

GJ30	R891
EPG OPEN	2R2K
OTHERS SHORT	OPEN

GJ85
EPG OPEN
OTHERS SHORT

GJ60	R842
EPG SHORT	OPEN
OTHERS OPEN	1/2W12

	EPG	OTHERS
CF17	OPEN	OPEN
GJ69	OPEN	OPEN
GJ89	OPEN	SHORT
JP10A	OPEN	SHORT

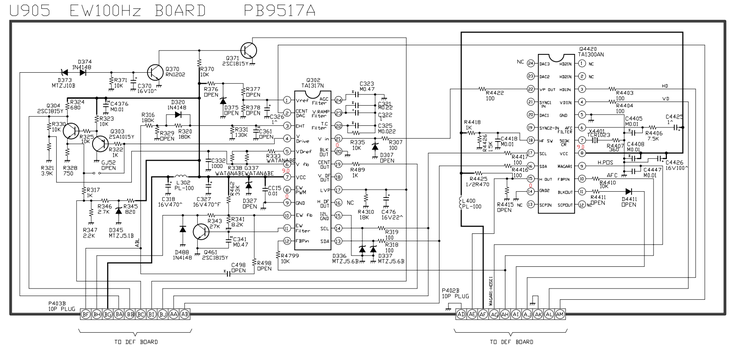
	TV	PJ
BF35	OPEN	2SC4242K
GF35	OPEN	OPEN
RF32	OPEN	10K
RF35	OPEN	OPEN
RF36	OPEN	1K
GJ82	CHIP-JP	OPEN

	TV	PJ
BF37	OPEN	OPEN
GF38	2SA933TK	OPEN
LF34	OPEN	OPEN
CF13	OPEN	OPEN
RF31	OPEN	OPEN
RF33	1K	OPEN
RF34	1K	OPEN
GJ83	CHIP-JP	OPEN
GJ86	OPEN	SHORT
GJ87	CHIP-JP	OPEN

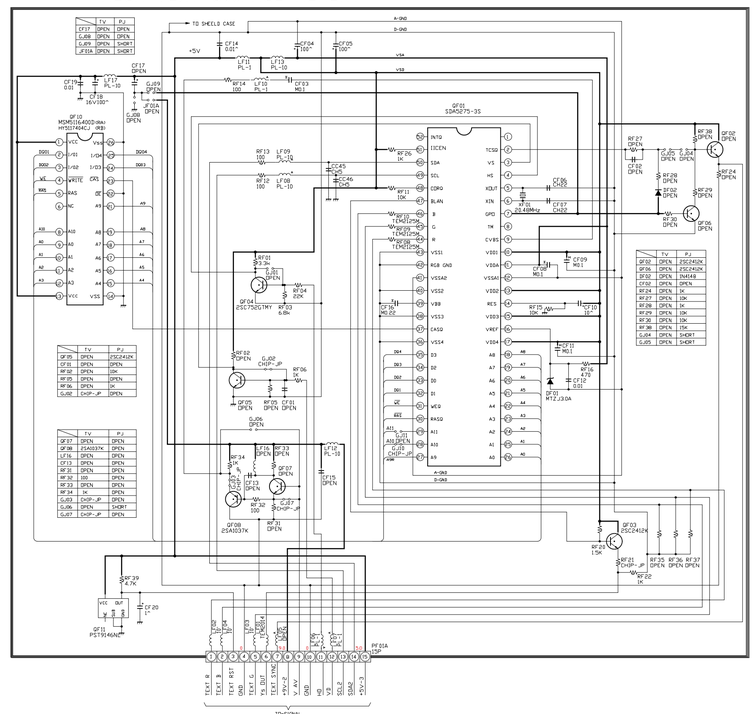
	TV	PJ
BF52	OPEN	2SC2452K
BF36	OPEN	2SC4242K
BF32	OPEN	1N4148
CF02	OPEN	OPEN
RF24	OPEN	1K
RF27	OPEN	10K
RF28	OPEN	1K
RF29	OPEN	10K
RF30	OPEN	10K
RF38	OPEN	75K
GJ84	OPEN	SHORT
GJ85	OPEN	SHORT

EPG MODELS	OTHER MODELS
ALL NEED	NO NEED(OPEN)

U905 EW100Hz BOARD PB9517A



U104A TEXT BOARD PB9411D
MEGA-TEXT 500PAGE MEMORY



NOTE
The marking (OPEN) means that there are on components on the PCB though there are the marking of part No. on the PCB.Its means open circuited

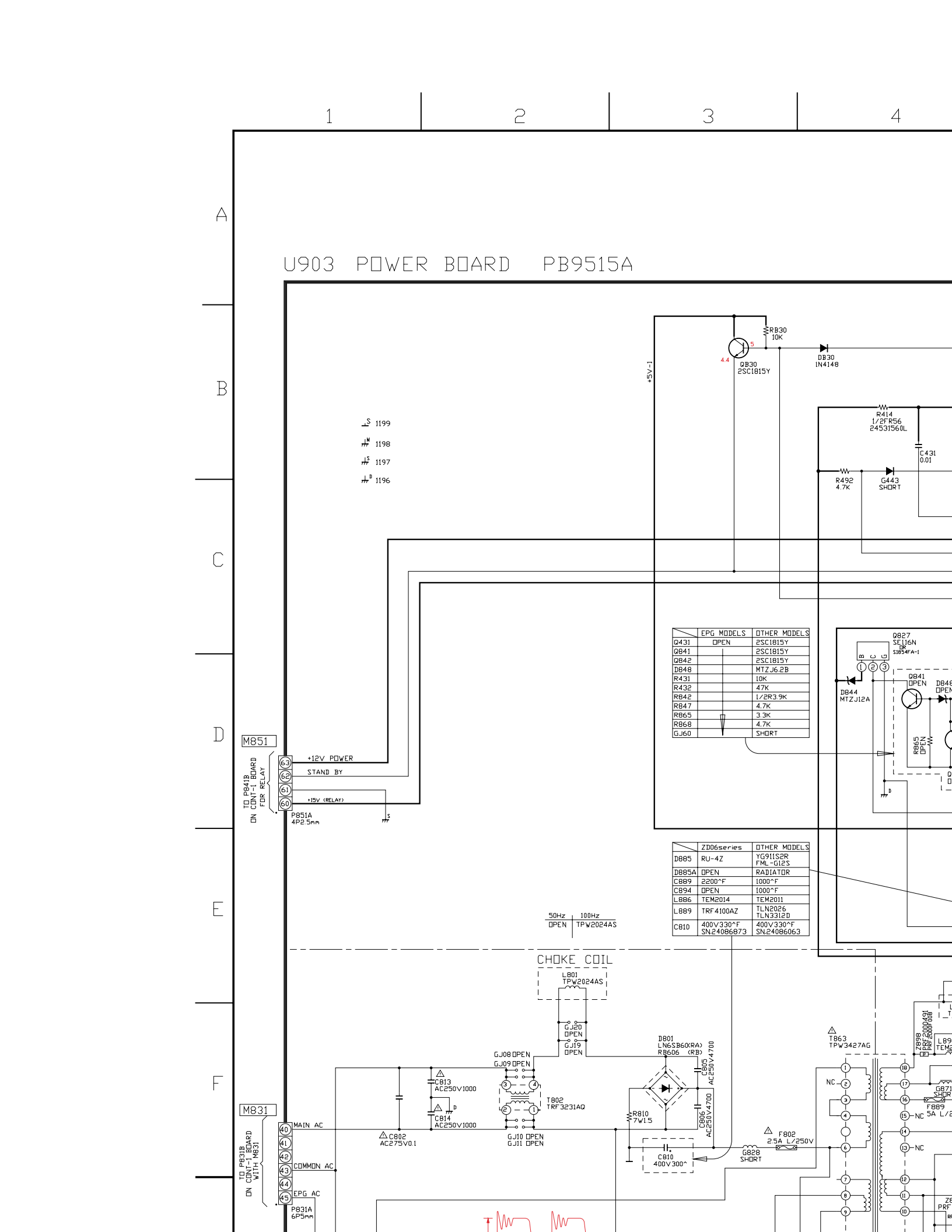
UNIT SN	
POWER	SN 23784883
DEF	SN 23784884
EW100Hz	SN 23784885
	SN

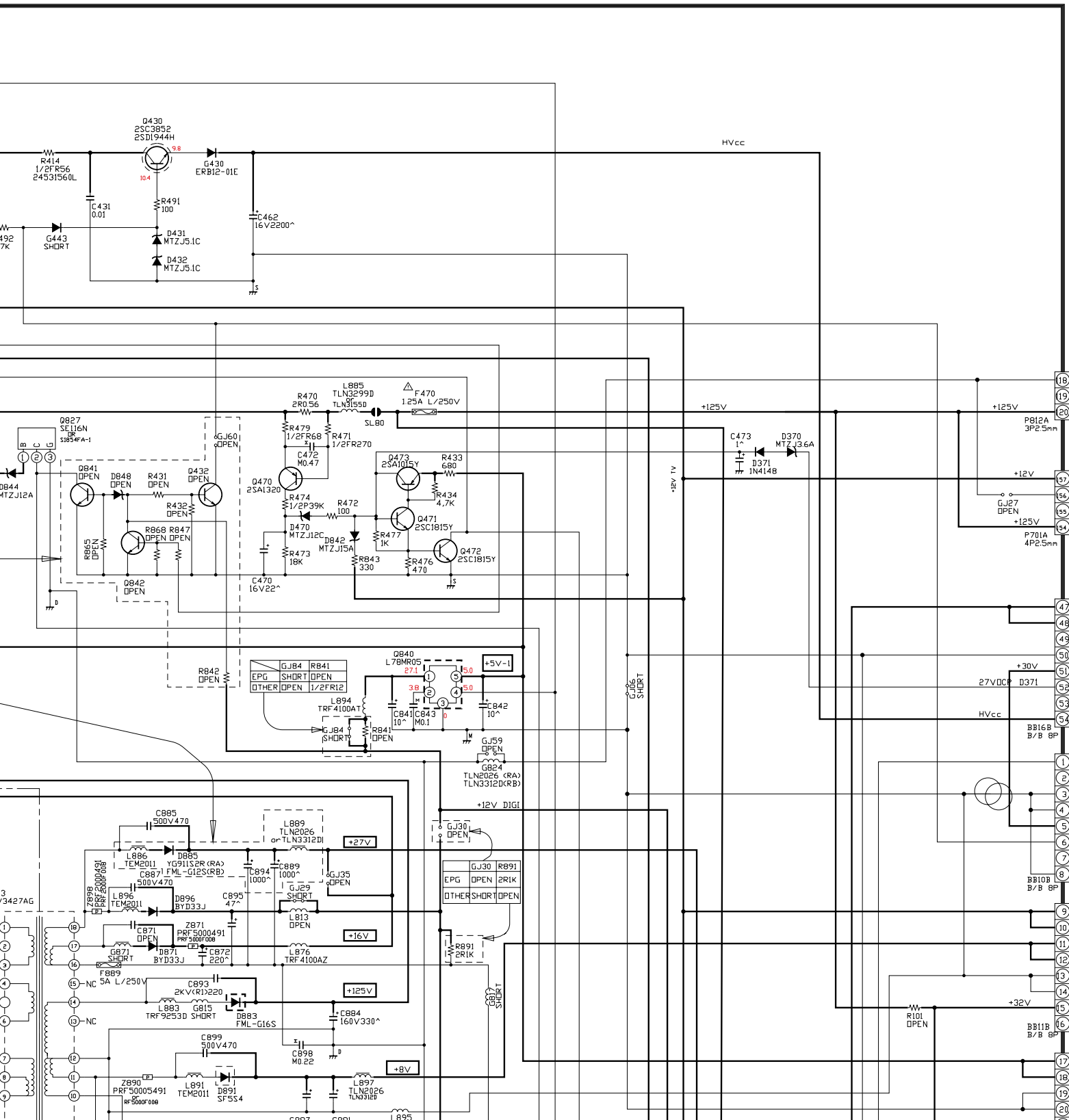
COPPER SIDE PARTS	
	SN
	SN
	SN
	SN
	SN

UNIT SN	
CONT-1	SN 23784997
CONT-2	SN 23784998
TEXT&KEY	SN 23784365
	SN
	SN

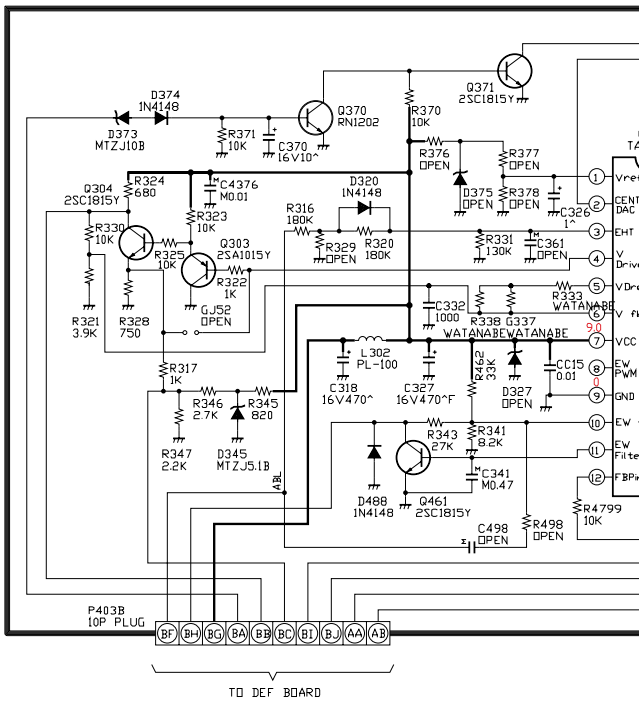
COPPER SIDE PARTS	
	SN
	SN
	SN
	SN

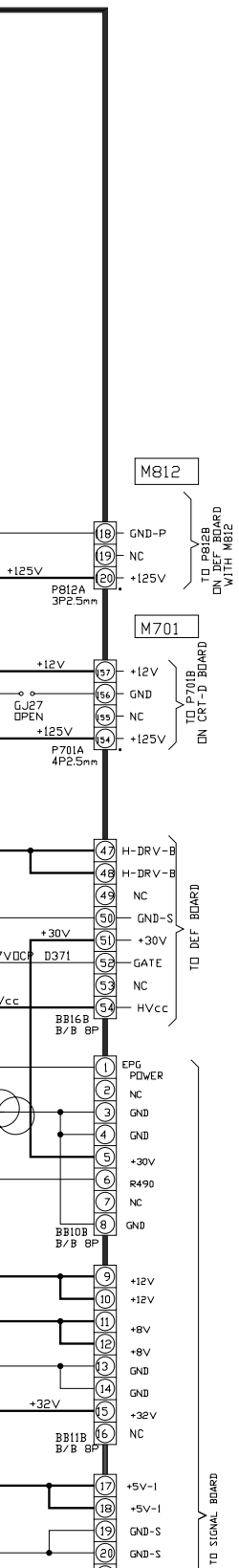
POWER/EW100Hz/TEXT
36ZP18P 32ZP18P


1
2
3
4
A
B
C
D
E
F
U903 POWER BOARD PB9515A
RB30 10K
DB30 1N4148
QB30 2SC1815Y
+5V-1
R414 1/2FR56 24531560L
C431 0.01
R492 4.7K
G443 SHORT
1199
1198
1197
1196
EPG MODELS | OTHER MODELS
Q431 | OPEN | 2SC1815Y
QB41 | | 2SC1815Y
QB42 | | 2SC1815Y
DB48 | | MTZJ6.2B
R431 | | 10K
R432 | | 47K
R842 | | 1/2R3.9K
R847 | | 4.7K
R865 | | 3.3K
R868 | | 4.7K
GJ60 | | SHORT
Q827 SE116N OR S1854FA-1
DB44 MTZJ12A
Q841 OPEN
R865 OPEN
M851
TO PB41B ON CONT-1 BOARD FOR RELAY
+12V POWER
STAND BY
+15V (RELAY)
P851A 4P2.5mm
ZD06series | OTHER MODELS
D885 | RU-4Z | YG911S2R FML-G12S
D885A | OPEN | RADIATOR
C889 | 2200^F | 1000^F
C894 | OPEN | 1000^F
L886 | TEM2014 | TEM2011
L889 | TRF4100AZ | TLN2026 TLN3312D
C810 | 400V330^F SN.24086873 | 400V330^F SN.24086063
50Hz OPEN | 100Hz TPW2024AS
CHOKE COIL
L801 TPW2024AS
GJ20 OPEN
GJ19 OPEN
GJ08 OPEN
GJ09 OPEN
C813 AC250V1000
C814 AC250V1000
T802 TRF3231AQ
GJ10 OPEN
GJ11 OPEN
C802 AC275V0.1
D801 LN6SB60(RA) RB606 (RB)
C805 AC250V4700
C806 AC250V4700
R810 7W1.5
C810 400V.300^
G828 SHORT
F802 2.5A L/250V
T863 TPW3427AG
M831
TO PB31B ON CONT-1 BOARD WITH M831
MAIN AC
COMMON AC
EPG AC
P831A 6P5mm
NC
F889 5A L/2

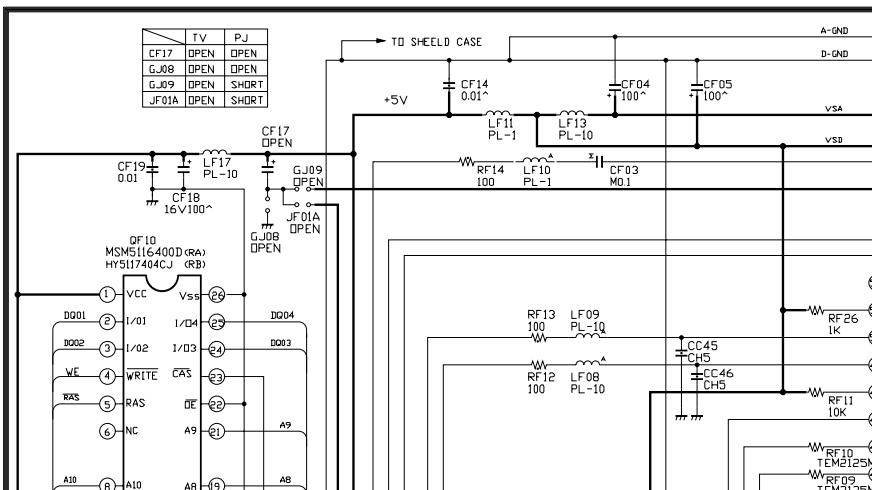

Q430
2SC3852
2SD1944H
R414
1/2FR56
24531560L
G430
ERB12-01E
C431
0.01
R491
100
C462
16V2200^
G443
SHORT
D431
MTZJ5.1C
D432
MTZJ5.1C
HVcc
M812
M701
GND-P
NC
+125V
P812A
3P2.5mm
+12V
GND
NC
+125V
P701A
4P2.5mm
H-DRV-B
H-DRV-B
NC
GND-S
+30V
GATE
NC
HVcc
BB16B
B/B 8P
EPG
POWER
NC
GND
GND
+30V
R490
NC
GND
BB10B
B/B 8P
+12V
+12V
+8V
+8V
GND
GND
+32V
BB11B
B/B 8P
+5V-1
+5V-1
GND-S
GND-S
R101
OPEN
C473
1^
D371
1N414B
D370
MTZJ3.6A
27V
D371
GJ27
OPEN
R470
2R0.56
L885
TLN3299D
TLN3155D
SL80
F470
1.25A L/250V
R479
1/2FR68
R471
1/2FR270
C472
M0.47
Q470
2SA1320
Q473
2SA1015Y
R433
680
R434
4.7K
R474
1/2P39K
R472
100
Q471
2SC1815Y
D470
MTZJ12C
D842
MTZJ15A
R477
1K
R473
18K
R843
330
R476
470
Q472
2SC1815Y
C470
16V22^
Q827
SE116N
OR
S1854FA-1
Q841
OPEN
D844
MTZJ12A
D848
OPEN
R431
OPEN
Q432
OPEN
R432
OPEN
R865
OPEN
R868 R847
OPEN OPEN
D842
OPEN
GJ60
OPEN
R842
OPEN
Q840
L78MR05
27.1
5.0
3.8
5.0
+5V-1
L894
TRF4100AT
C841
10^
C843
M0.1
C842
10^
GJ84
SHORT
R841
OPEN
GJ59
OPEN
G824
TLN2026 (RA)
TLN3312D(RB)
GJ84 R841
EPG SHORT OPEN
OTHER OPEN 1/2FR12
+12V DIGI
C885
500V470
L889
TLN2026
or TLN3312D
+27V
L886
TEM2011
D885
YG911S2R(RA)
FML-G12S(RB)
C887
500V470
C894
1000^
C889
1000^
GJ35
OPEN
GJ29
SHORT
L813
OPEN
C895
47^
L896
TEM2011
D896
BYD33J
Z898
PRF5000F008
C871
OPEN
Z871
PRF5000491
PRF5000F008
G871
SHORT
D871
BYD33J
C872
220^
L876
TRF4100AZ
+16V
F889
5A L/250V
C893
2KV(R1)220
L883
TRF9253D
G815
SHORT
D883
FML-G16S
+125V
C884
160V330^
C899
500V470
C898
M0.22
+8V
Z890
PRF50005491
PRF5000F008
L891
TEM2011
D891
SF5S4
L897
TLN2026
TLN3312D
L895
GJ30
OPEN
GJ30 R891
EPG OPEN 2R1K
OTHER SHORT OPEN
R891
2R1K
G817
SHORT
3427AG

U905 EW100Hz BOARD PB9517



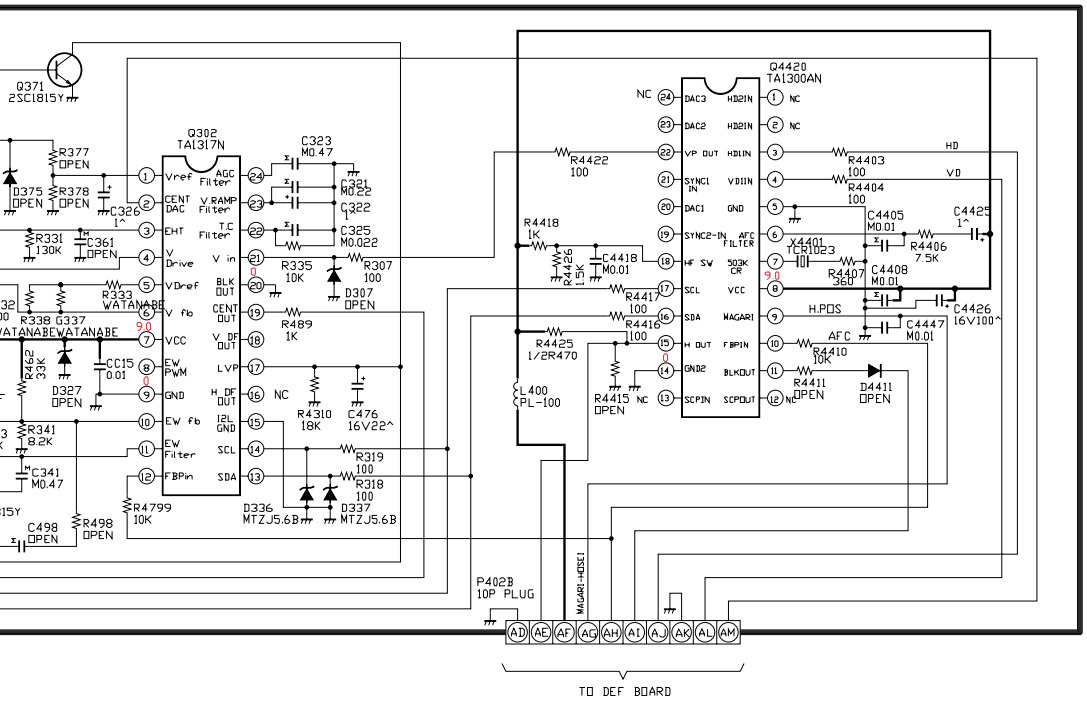


U104A TEXT BOARD PB9411D
MEGA-TEXT 500PAGE MEMORY



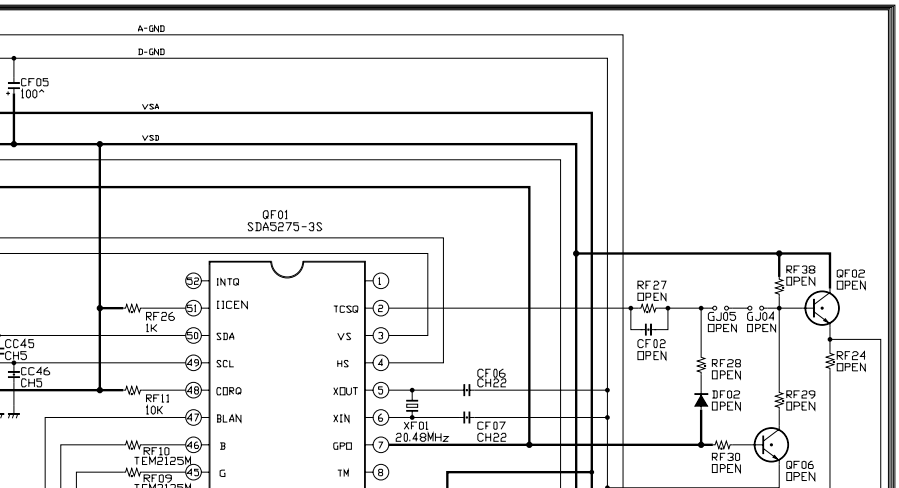
13 14 15 16

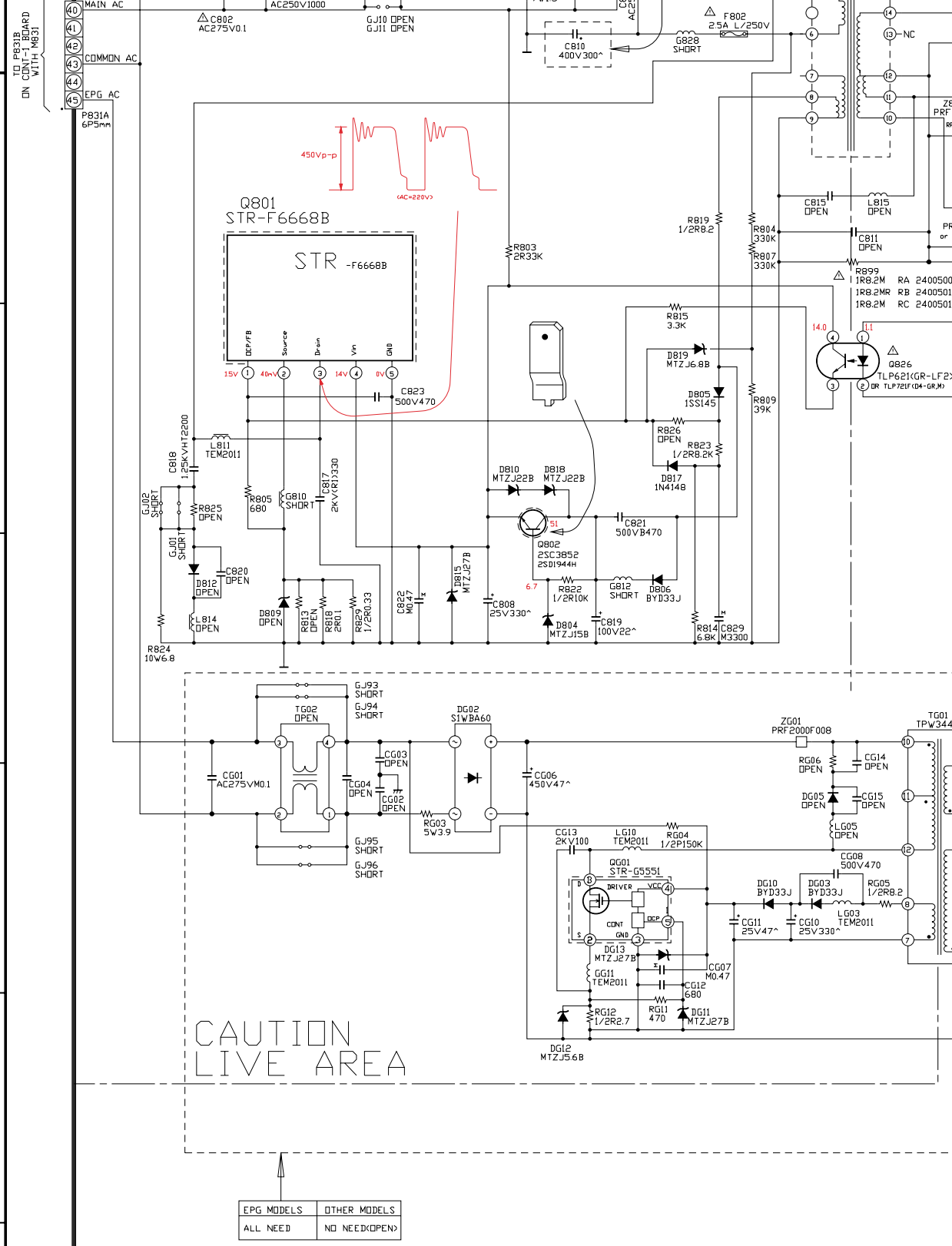
PB9517A

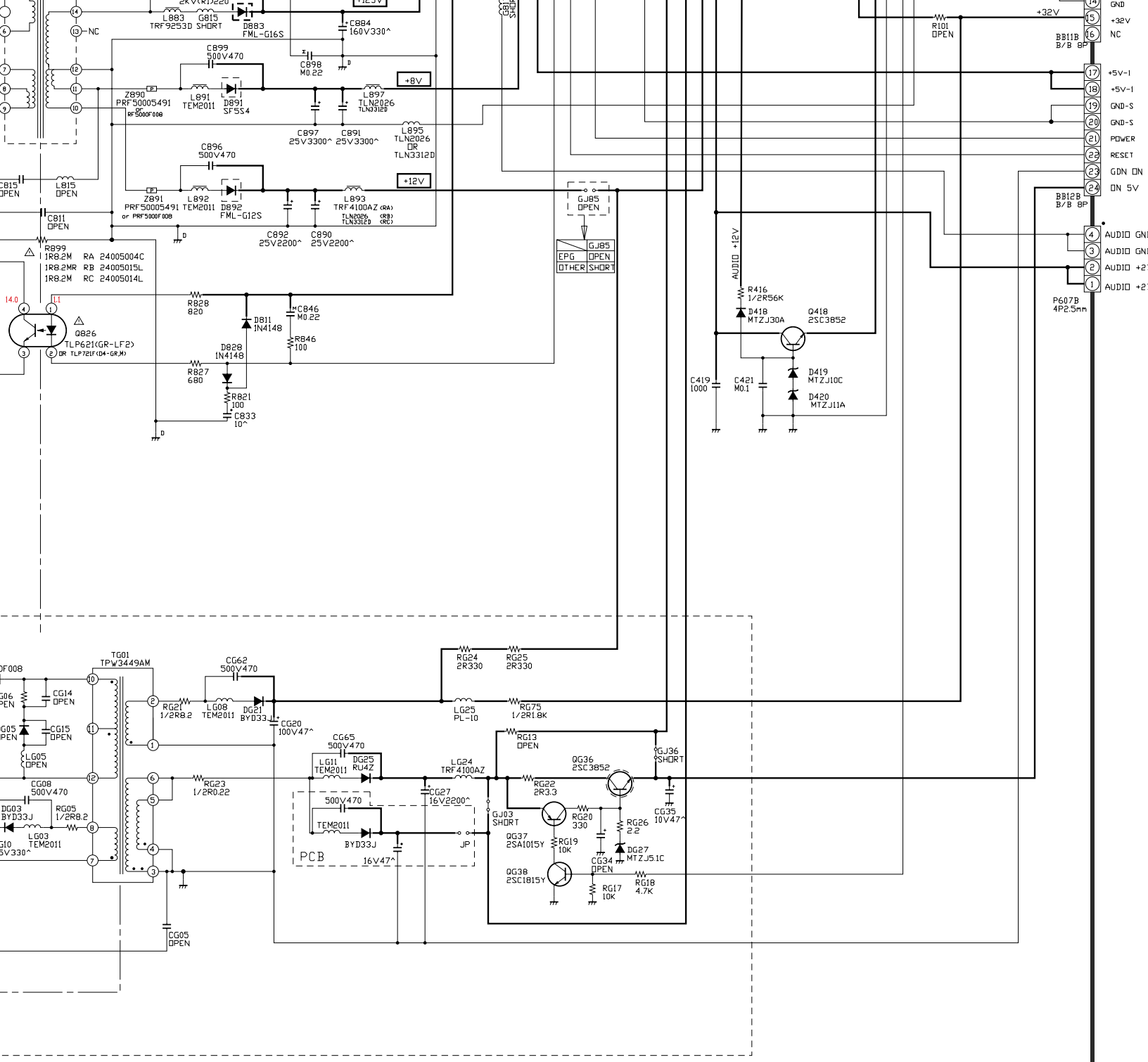


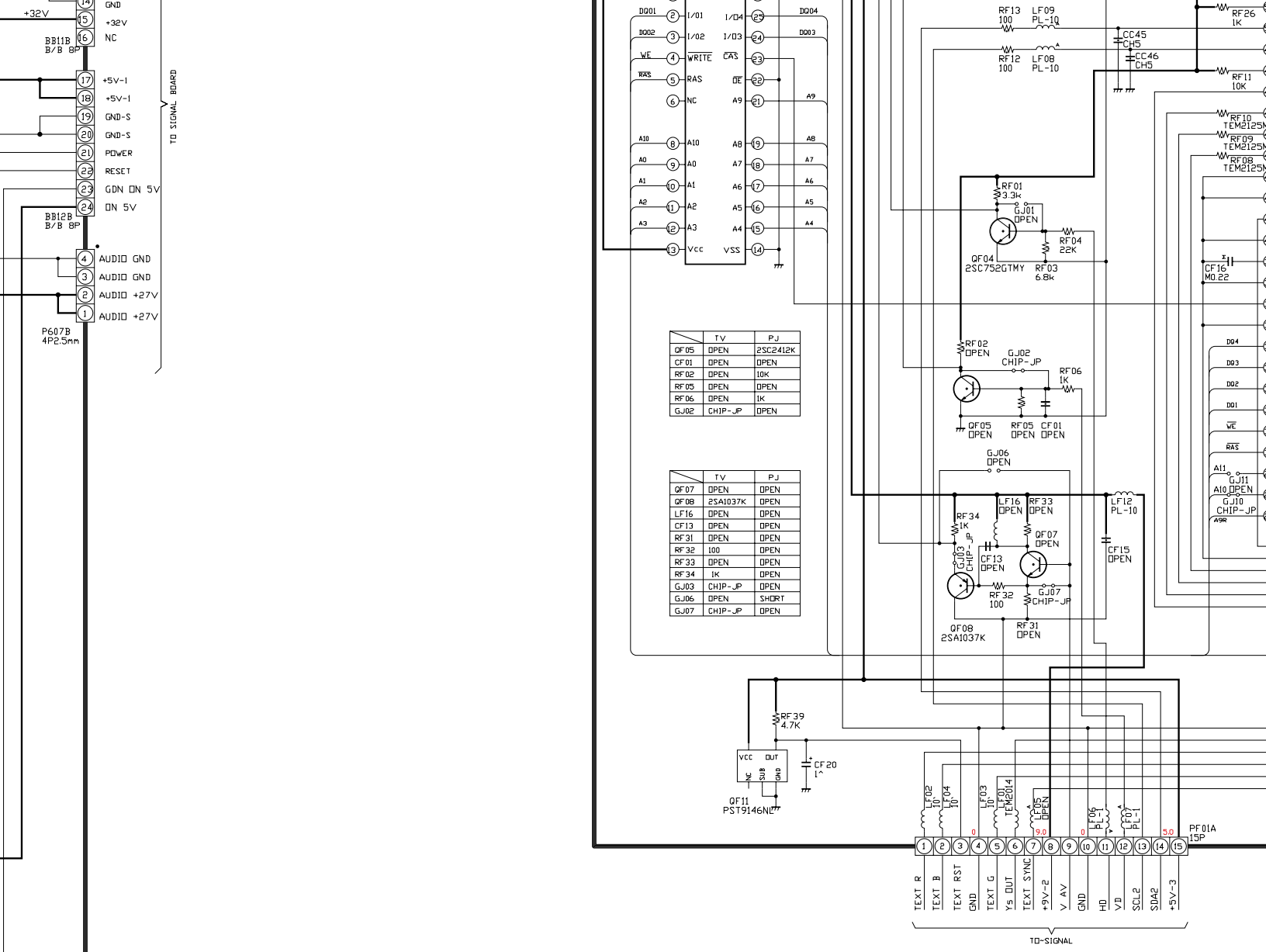
A B C D E F

ORY




TO P831B ON CONT-1 BOARD WITH M831
40 MAIN AC
41
42
43 COMMON AC
44
45 EPG AC
P831A 6P5mm
C802 AC275V0.1
AC250V1000
GJ10 OPEN
GJ11 OPEN
C810 400V300^
G828 SHORT
F802 2.5A L/250V
450Vp-p
(AC=220V)
Q801
STR-F6668B
STR -F6668B
OCP/FB
Source
Drain
Vcc
GND
15V
40mV
14V
0V
C823 500V470
R803 2R33K
R819 1/2R8.2
R804 330K
R807 330K
C815 OPEN
L815 OPEN
C811 OPEN
R899 1R8.2M RA 2400500
1R8.2MR RB 2400501
1R8.2M RC 2400501
R815 3.3K
D819 MTZJ6.8B
D805 1SS145
R826 OPEN
R823 1/2R8.2K
D817 1N4148
R809 39K
Q826 TLP621(GR-LF2)
L811 TEM2011
C818 1.25KVHT2200
GJ02 SHORT
GJ01 SHORT
R825 OPEN
R805 680
G810 SHORT
C817 2KVR13330
D812 OPEN
C820 OPEN
L814 OPEN
R824 10W6.8
D809 OPEN
R813 OPEN
R818 2R0.1
R829 1/2R0.33
C822 M0.47
D815 MTZJ27B
C808 25V330^
D810 MTZJ22B
D818 MTZJ22B
Q802 2SC3852 2SD1944H
C821 500VB470
R822 1/2R10K
G812 SHORT
D806 BYD33J
D804 MTZJ15B
C819 100V22^
R814 6.8K
C829 M3300
GJ93 SHORT
GJ94 SHORT
TG02 OPEN
DG02 S1WBA60
ZG01 PRF2000F008
TG01 TPW344
CG01 AC275VM0.1
CG03 OPEN
CG04 OPEN
CG02 OPEN
CG06 450V47^
RG03 5W3.9
GJ95 SHORT
GJ96 SHORT
RG06 OPEN
CG14 OPEN
DG05 OPEN
CG15 OPEN
LG05 OPEN
CG13 2KV100
LG10 TEM2011
RG04 1/2P150K
QG01 STR-G5551
DRIVER
VCC
CONT
OCP
GND
CG08 500V470
DG10 BYD33J
DG03 BYD33J
RG05 1/2R8.2
CG11 25V47^
CG10 25V330^
LG03 TEM2011
DG13 MTZJ27B
GG11 TEM2011
CG07 M0.47
CG12 680
RG12 1/2R2.7
RG11 470
DG11 MTZJ27B
DG12 MTZJ5.6B
CAUTION
LIVE AREA
EPG MODELS
ALL NEED
OTHER MODELS
NO NEED(OPEN)


+125V
L883 TRF9253D
G815 SHORT
D883 FML-G16S
C884 160V330^
C899 500V470
C898 M0.22
+8V
Z890 PRF50005491
L891 TEM2011
D891 SF554
L897 TLN2026
C897 25V3300^
C891 25V3300^
L895 TLN2026 OR TLN3312D
C896 500V470
+12V
Z891 PRF50005491 or PRF5000F008
L892 TEM2011
D892 FML-G12S
L893 TRF4100AZ (RA) TLN2026 (RB) TLN3312D (RC)
C892 25V2200^
C890 25V2200^
C815 OPEN
L815 OPEN
C811 OPEN
R999 1R8.2M RA 24005004C
1R8.2MR RB 24005015L
1R8.2M RC 24005014L
R828 820
D811 1N4148
C846 M0.22
R846 100
D828 1N4148
R827 680
R821 100
C833 10^
Q826 TLP621(GR-LF2) OR TLP721F(D4-GR,M)
GJ85 OPEN
EPG OPEN
OTHER SHORT
R101 OPEN
+32V
BB11B B/B 8P
GND
+32V
NC
+5V-I
+5V-I
GND-S
GND-S
POWER
RESET
GDN ON
ON 5V
BB12B B/B 8P
AUDIO GND
AUDIO GND
AUDIO +12V
AUDIO +12V
P607B 4P2.5mm
R416 1/2R56K
D418 MTZJ30A
Q418 2SC3852
C419 1000
C421 M0.1
D419 MTZJ10C
D420 MTZJ11A
TG01 TPW3449AM
CG62 500V470
RG24 2R330
RG25 2R330
RG21 1/2R8.2
LG08 TEM2011
DG21 BYD33J
CG20 100V47^
LG25 PL-10
RG75 1/2R1.8K
CG65 500V470
LG11 TEM2011
DG25 RU4Z
LG24 TRF4100AZ
RG13 OPEN
QG36 2SC3852
GJ36 SHORT
RG23 1/2R0.22
RG22 2R3.3
CG27 16V2200^
GJ03 SHORT
RG20 330
RG26 2.2
CG35 10V47^
QG37 2SA1015Y
RG19 10K
DG27 MTZJ5.1C
CG34 OPEN
QG38 2SC1815Y
RG17 10K
RG18 4.7K
500V470
TEM2011
BYD33J
16V47^
JP
PCB
CG14 OPEN
CG15 OPEN
LG05 OPEN
CG08 500V470
DG03 BYD33J
RG05 1/2R8.2
LG03 TEM2011
CG05 OPEN



	TV	PJ
QF05	OPEN	2SC2412K
CF01	OPEN	OPEN
RF02	OPEN	10K
RF05	OPEN	OPEN
RF06	OPEN	1K
GJ02	CHIP-JP	OPEN

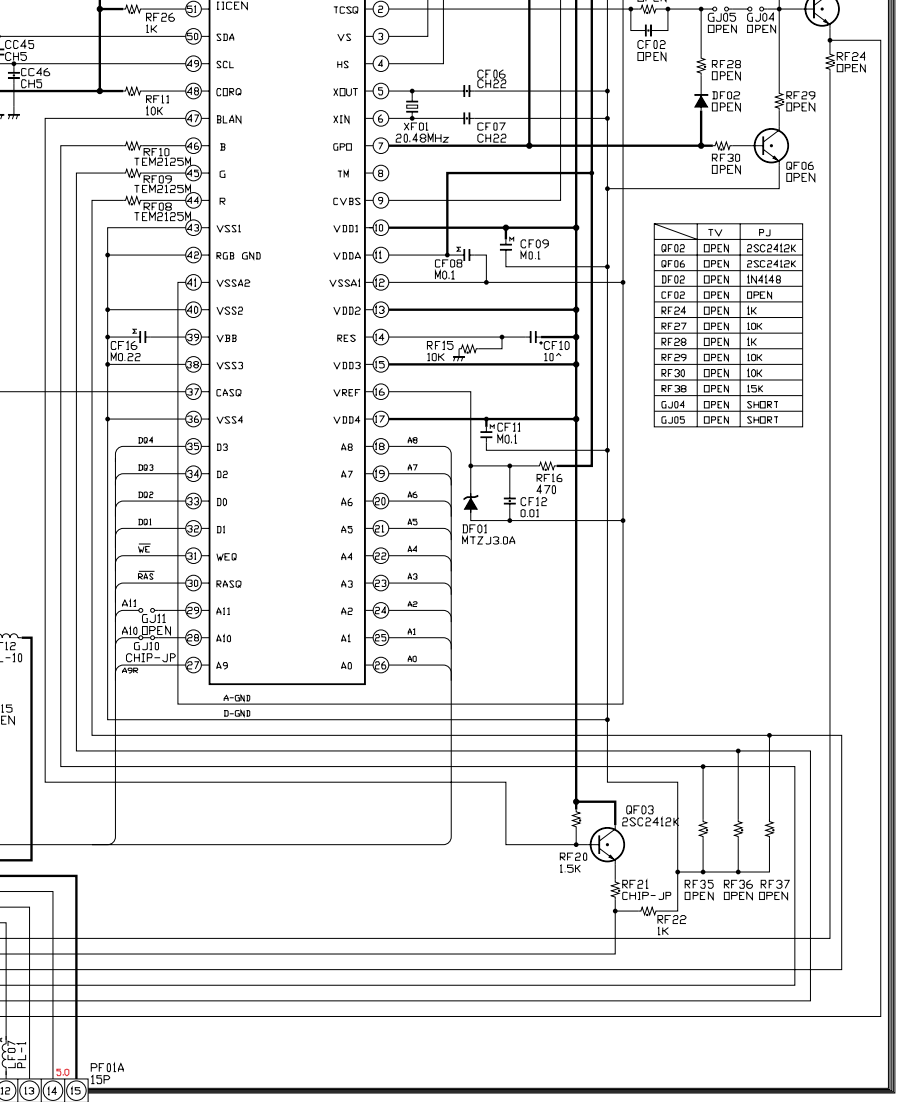
	TV	PJ
QF07	OPEN	OPEN
QF08	2SA1037K	OPEN
LF16	OPEN	OPEN
CF13	OPEN	OPEN
RF31	OPEN	OPEN
RF32	100	OPEN
RF33	OPEN	OPEN
RF34	1K	OPEN
GJ03	CHIP-JP	OPEN
GJ06	OPEN	SHORT
GJ07	CHIP-JP	OPEN

NOTE
The marking [OPEN] means that there are on component on the PCB though there are the marking of part No. on the PCB.Its means open circuited.

UNIT SN.	
POWER	SN.23784883
DEF	SN.23784884
EW100Hz	SN.23784885
	SN.

COPPER SIDE PARTS	
	SN.
	SN.
	SN.
	SN.
	SN.

9	10	11	12	13



	TV	PJ
QF02	OPEN	2SC2412K
QF06	OPEN	2SC2412K
DF02	OPEN	1N4148
CF02	OPEN	OPEN
RF24	OPEN	1K
RF27	OPEN	10K
RF28	OPEN	1K
RF29	OPEN	10K
RF30	OPEN	10K
RF38	OPEN	15K
GJ04	OPEN	SHORT
GJ05	OPEN	SHORT

SIDE PARTS
N.
N.
N.
N.
N.

UNIT SN.	
CONT-1	SN.23784997
CONT-2	SN.23784998
500TEXT	SN.23784365
	SN.
	SN.

COPPER SIDE PARTS
SN.
SN.
SN.
SN.
SN.

POWER/EW100Hz/TEXT
36ZP18P 32ZP18P

G H I J K L

13 14 15 16

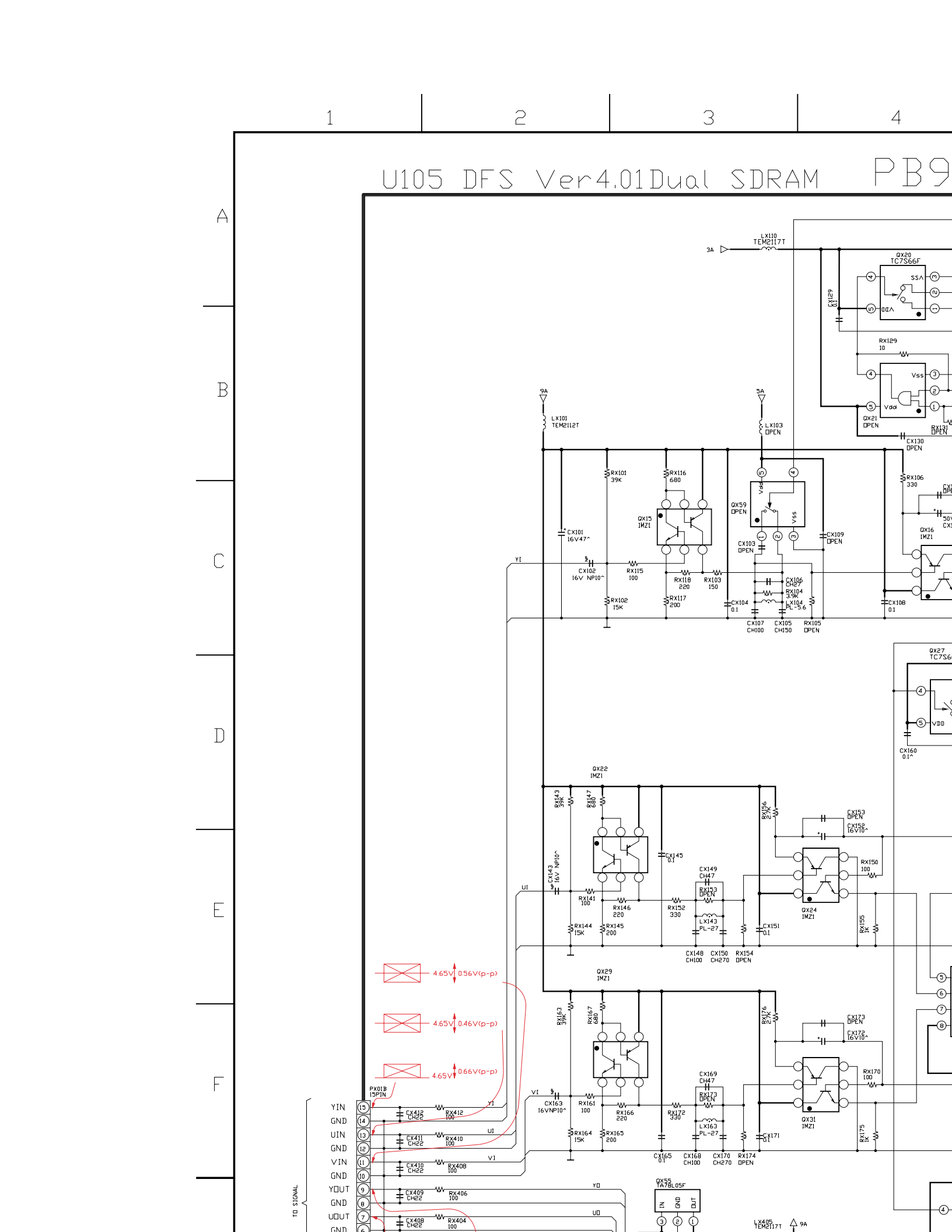
U105 DFS Ver4.01Dual SDRAM PB9954

QX01
TC90A61F

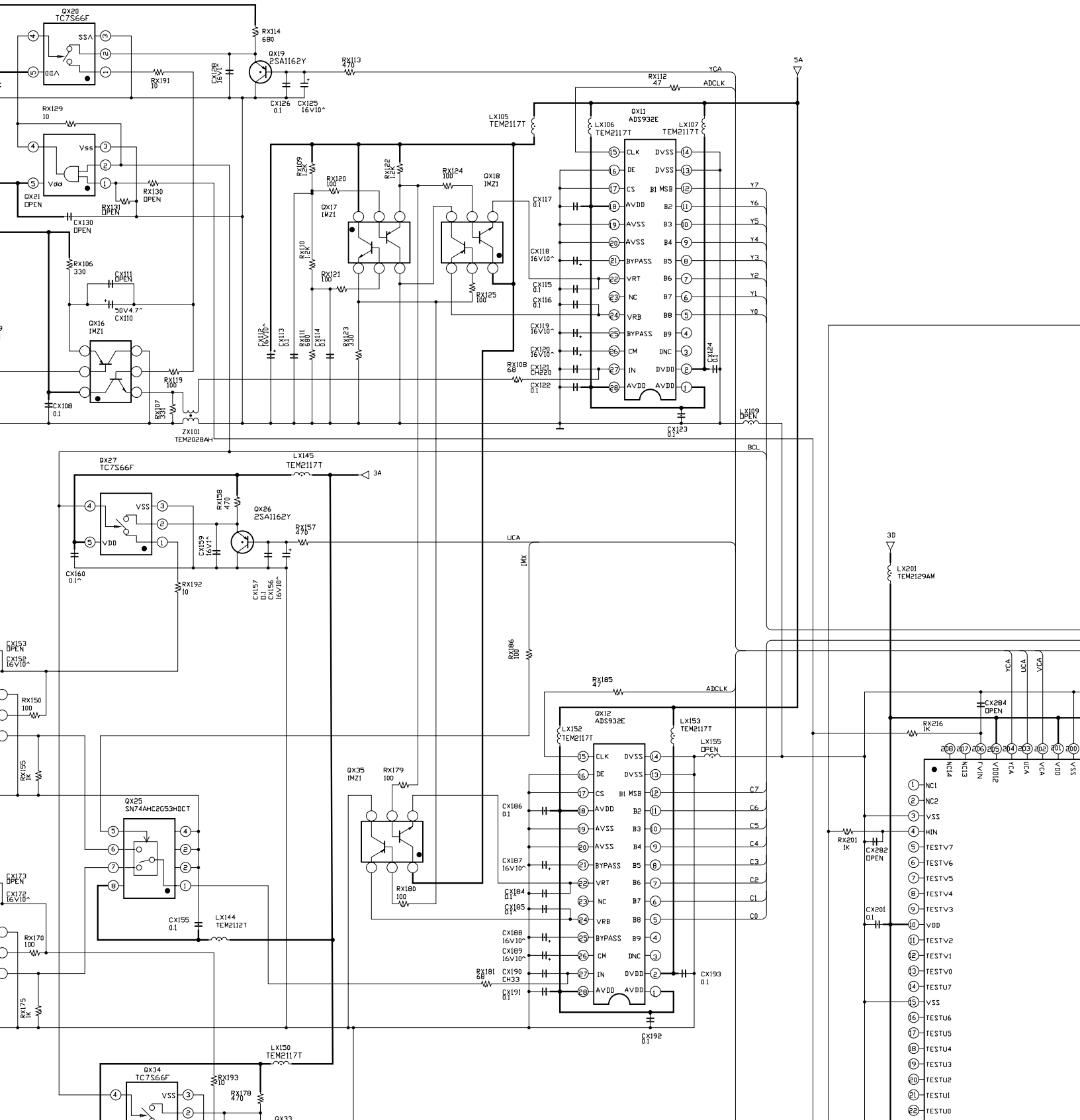
QX61
HY57V161610D

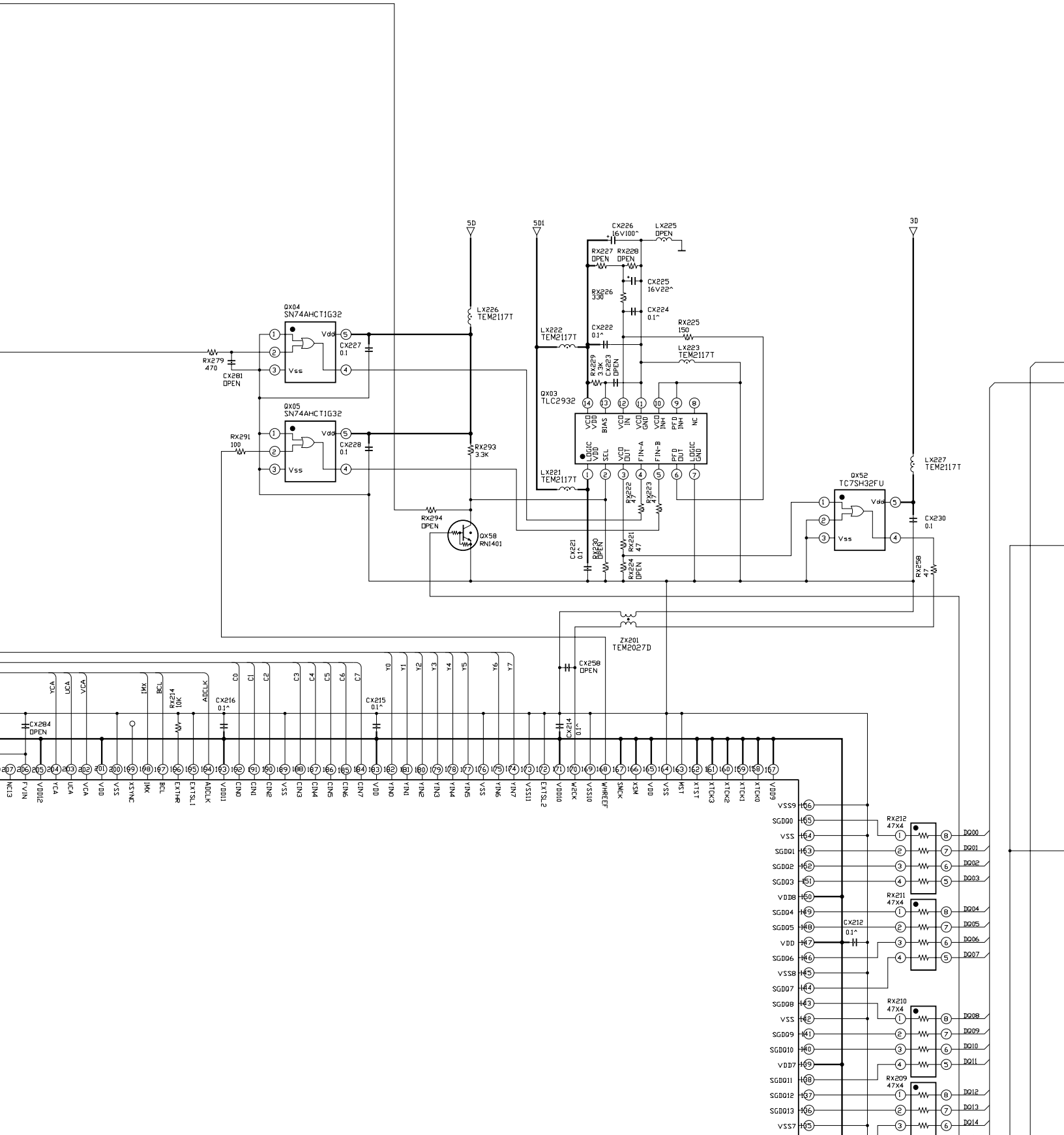
QX62
HY57V161610D

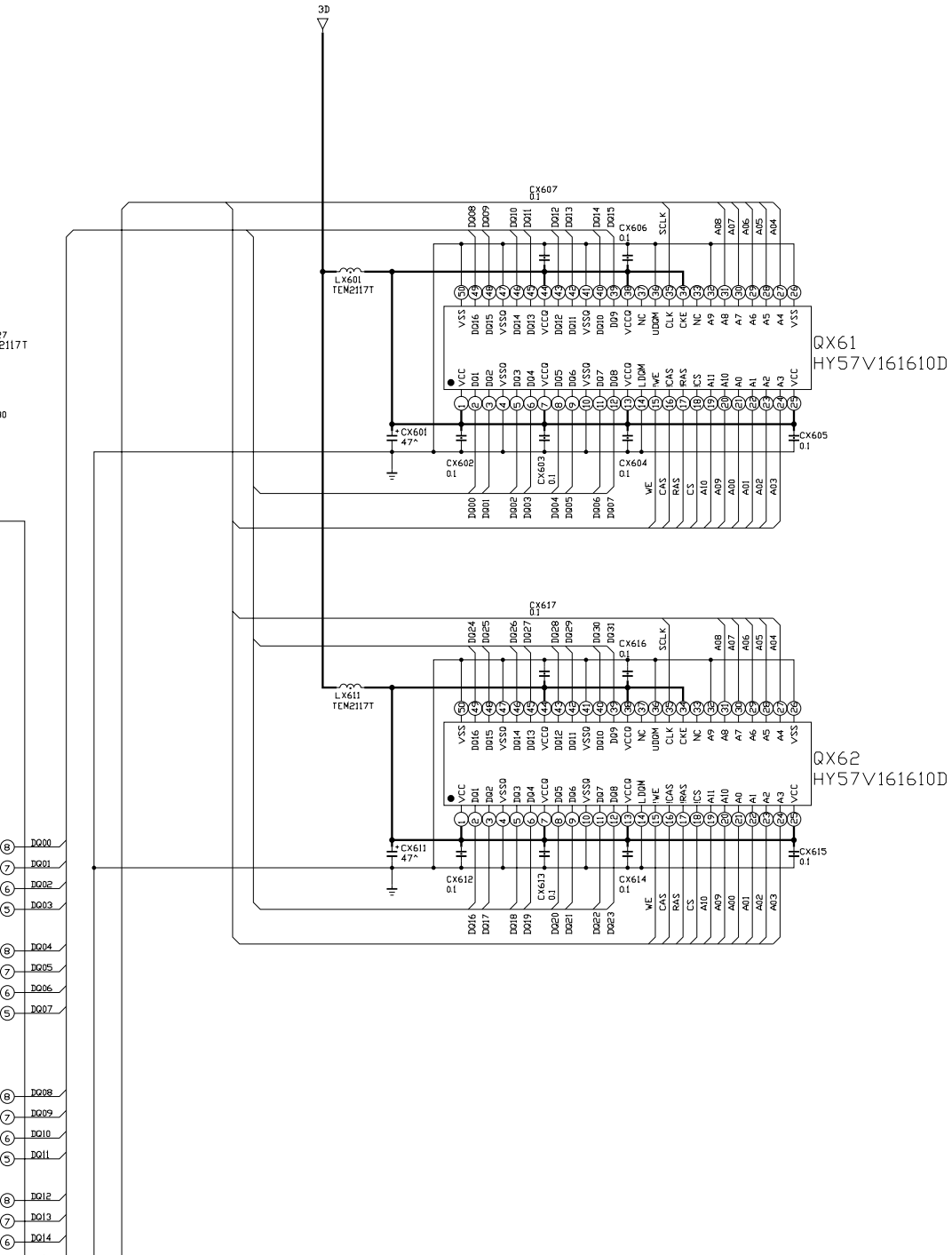
DFS Ver4.01 DualSDRAM
36ZP18P/32ZP18P

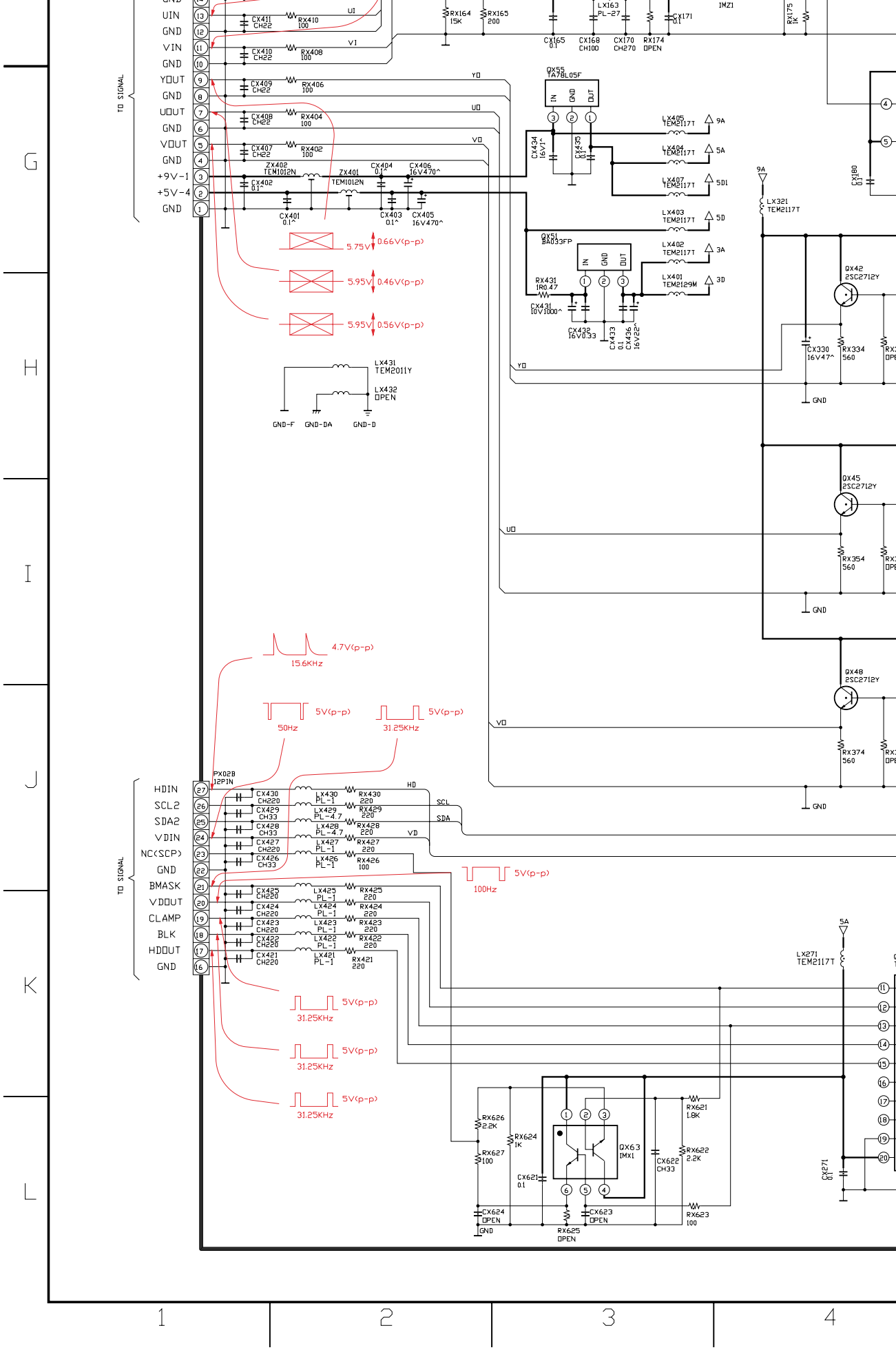

U105 DFS Ver4.01Dual SDRAM
PB9
LX110 TEM2117T
QX20 TC7S66F
LX101 TEM2112T
LX103 OPEN
QX59 OPEN
QX15 1MZ1
QX16 1MZ1
QX21 OPEN
QX22 1MZ1
QX24 1MZ1
QX27 TC7S6
QX29 1MZ1
QX31 1MZ1
QX55 TA78L05F
LX405 TEM2117T
RX101 39K
RX116 680
RX106 330
RX129 10
RX102 15K
RX115 100
RX118 220
RX103 150
RX117 200
RX104 3.9K
RX105 OPEN
RX143 39K
RX147 680
RX156 2.7K
RX141 100
RX146 220
RX152 330
RX144 15K
RX145 200
RX150 100
RX153 OPEN
RX154 OPEN
RX155 1K
RX163 39K
RX167 680
RX176 2.7K
RX161 100
RX166 220
RX172 330
RX164 15K
RX165 200
RX170 100
RX173 OPEN
RX174 OPEN
RX175 1K
CX101 16V47^
CX102 16V NP10^
CX103 OPEN
CX104 0.1
CX106 CH82
CX107 CH100
CX105 CH150
CX108 0.1
CX109 OPEN
CX130 OPEN
CX129 0.1
CX160 0.1^
CX143 16V NP10^
CX145 0.1
CX149 CH47
CX148 CH100
CX150 CH270
CX151 0.1
CX153 OPEN
CX158 16V10^
CX163 16VNP10^
CX165 0.1
CX168 CH100
CX169 CH47
CX170 CH270
CX171 0.1
CX173 OPEN
CX178 16V10^
4.65V 0.56V(p-p)
4.65V 0.46V(p-p)
4.65V 0.66V(p-p)
PX018 15PIN
YIN
GND
UIN
GND
VIN
GND
YOUT
GND
UOUT
GND
TO SIGNAL
CX412 CH22
RX412 100
CX411 CH22
RX410 100
CX410 CH22
RX408 100
CX409 CH22
RX406 100
CX408 CH22
RX404 100
YI
UI
VI
YO
UO
3A
5A
9A

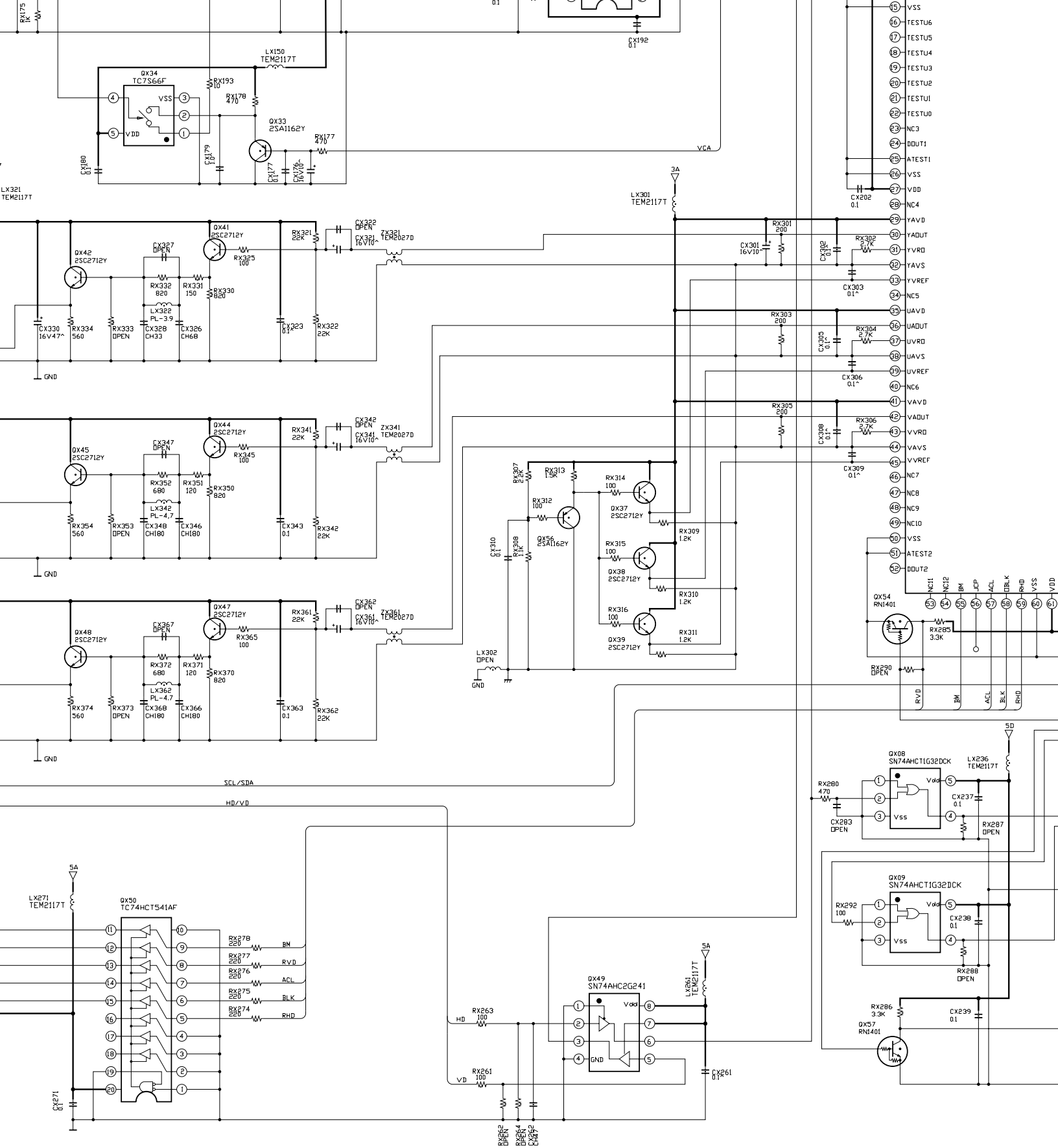
PB9954

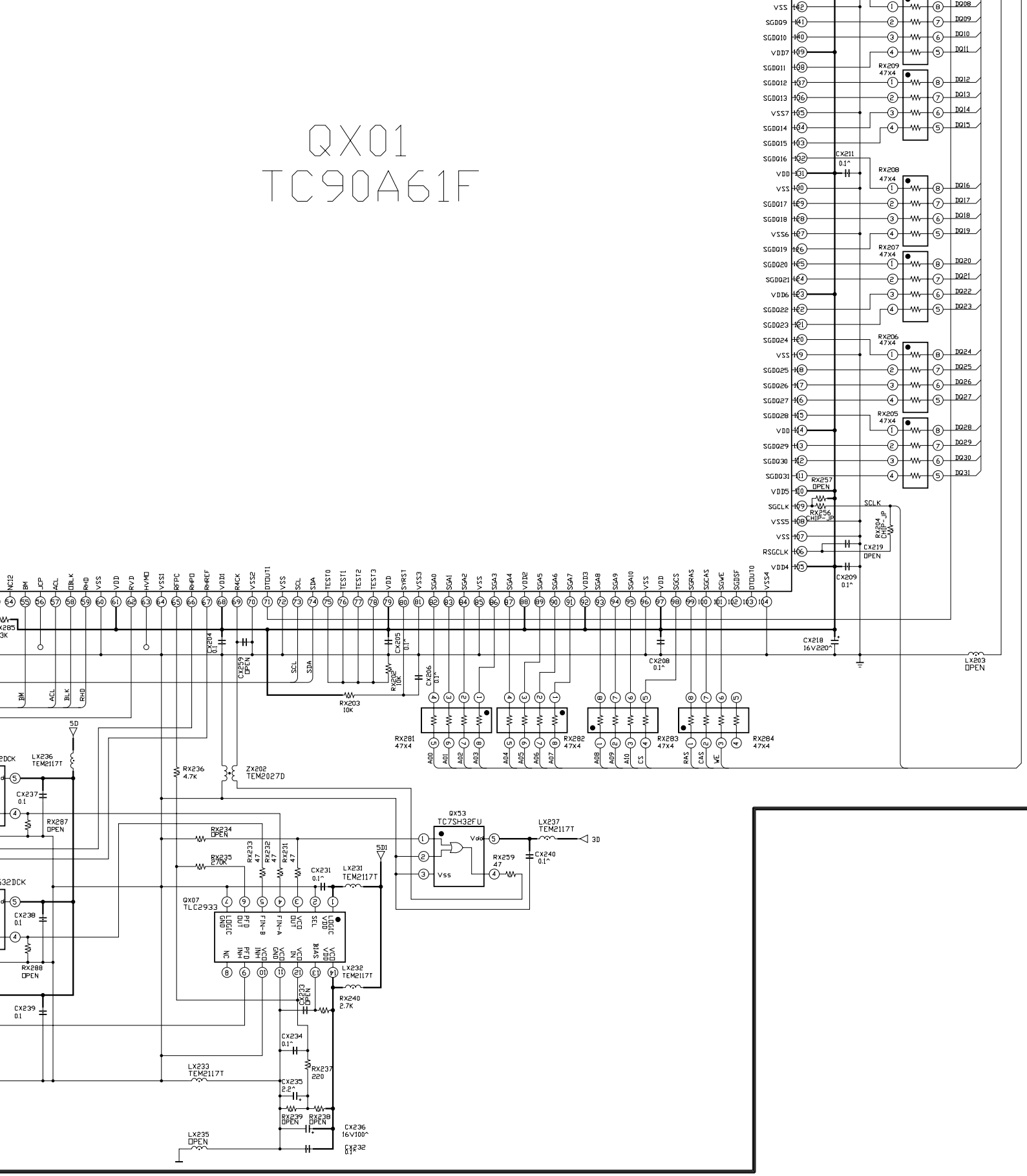

QX20 TC7S66F
RX114 680
QX19 2SA1162Y
RX113 470
RX191 10
CX128 16V1^
CX126 0.1
CX125 16V10^
RX129 10
QX21 OPEN
RX130 OPEN
RX131 OPEN
CX130 OPEN
RX106 330
CX111 OPEN
50V4.7^ CX110
QX16 IMZ1
RX119 100
CX108 0.1
RX107 331
ZX101 TEM2028AH
RX109 12K
RX120 100
RX122 12K
RX124 100
QX18 IMZ1
QX17 IMZ1
RX110 12K
RX121 100
RX125 100
CX112 16V10^
CX113 0.1
RX111 680
CX114 0.1
RX123 330
YCA
ADCLK
5A
RX112 47
LX105 TEM2117T
QX11 AD5932E
LX106 TEM2117T
LX107 TEM2117T
CLK DVSS
DE DVSS
CS B1 MSB
AVDD B2
AVSS B3
AVSS B4
BYPASS B5
VRT B6
NC B7
VRB B8
BYPASS B9
CM DNC
IN DVDD
AVDD AVDD
Y7 Y6 Y5 Y4 Y3 Y2 Y1 Y0
CX117 0.1
CX118 16V10^
CX115 0.1
CX116 0.1
CX119 16V10^
CX120 16V10^
RX108 68
CX121 CH220
CX122 0.1
CX124 0.1
CX123 0.1
LX109 OPEN
BCL
QX27 TC7S66F
LX145 TEM2117T
3A
RX158 470
QX26 2SA1162Y
RX157 470
CX159 16V1^
CX160 0.1^
RX192 10
CX157 0.1
CX156 16V10^
UCA
IMX
3D
LX201 TEM2129AM
CX153 OPEN
CX152 16V10^
RX150 100
RX155 1K
QX25 SN74AHC2G53HDCT
CX173 OPEN
CX172 16V10^
RX170 100
RX175 1K
CX155 0.1
LX144 TEM2112T
RX186 100
RX185 47
ADCLK
QX12 AD5932E
LX152 TEM2117T
LX153 TEM2117T
LX155 OPEN
CLK DVSS
DE DVSS
CS B1 MSB
AVDD B2
AVSS B3
AVSS B4
BYPASS B5
VRT B6
NC B7
VRB B8
BYPASS B9
CM DNC
IN DVDD
AVDD AVDD
C7 C6 C5 C4 C3 C2 C1 C0
CX186 0.1
CX187 16V10^
CX184 0.1^
CX185 0.1^
CX188 16V10^
CX189 16V10^
RX181 68
CX190 CH33
CX191 0.1
CX193 0.1
CX192 0.1
QX35 IMZ1
RX179 100
RX180 100
CX284 OPEN
RX216 1K
YCA UCA VCA
a08 a07 a06 a05 a04 a03 a02 a01 a00
NC14 NC13 FVIN VDD12 YCA UCA VCA VDD VSS
RX201 1K
CX282 OPEN
CX201 0.1
1 NC1
2 NC2
3 VSS
4 HIN
5 TESTV7
6 TESTV6
7 TESTV5
8 TESTV4
9 TESTV3
10 VDD
11 TESTV2
12 TESTV1
13 TESTV0
14 TESTU7
15 VSS
16 TESTU6
17 TESTU5
18 TESTU4
19 TESTU3
20 TESTU2
21 TESTU1
22 TESTU0
LX150 TEM2117T
QX34 TC7S66F
RX193 10
RX178 470
QX33

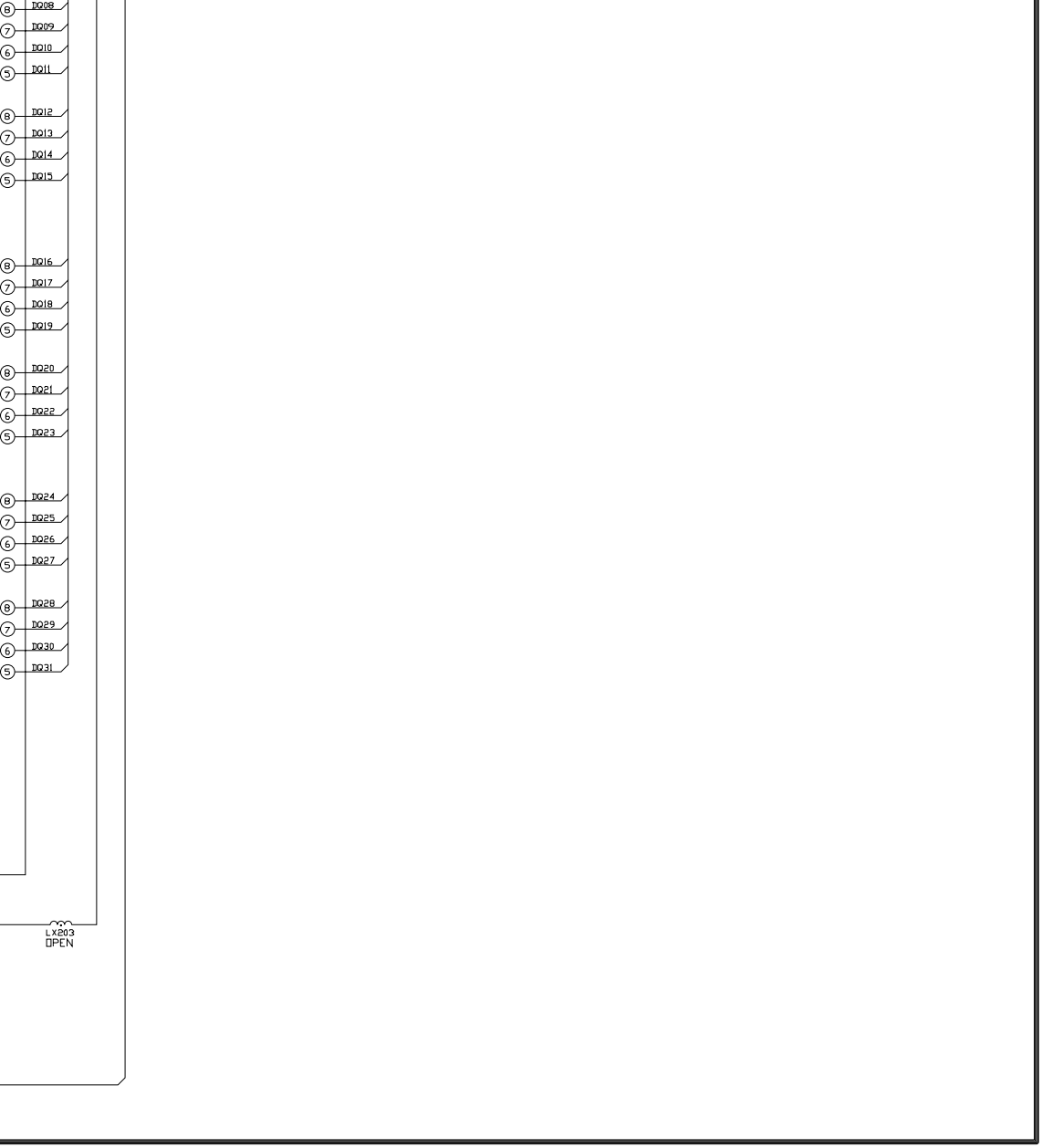

5D
5D1
3D
QX04
SN74AHCT1G32
QX05
SN74AHCT1G32
QX03
TLC2932
QX52
TC7SH32FU
QX58
RN1401
LX226
TEM2117T
LX222
TEM2117T
LX223
TEM2117T
LX221
TEM2117T
LX227
TEM2117T
ZX201
TEM2027D
CX226
16V100^
LX225
OPEN
RX227
OPEN
RX228
OPEN
CX225
16V22^
RX226
330
CX224
0.1^
CX222
0.1^
RX225
150
RX229
3.3K
CX223
OPEN
RX279
470
CX281
OPEN
CX227
0.1
RX291
100
CX228
0.1
RX293
3.3K
RX294
OPEN
CX221
0.1^
RX220
OPEN
RX221
47
RX222
47
RX223
47
RX224
OPEN
CX230
0.1
RX258
47
CX258
OPEN
CX284
OPEN
CX216
0.1^
CX215
0.1^
CX214
0.1^
RX214
10K
CX212
0.1^
RX212
47X4
RX211
47X4
RX210
47X4
RX209
47X4
DQ00
DQ01
DQ02
DQ03
DQ04
DQ05
DQ06
DQ07
DQ08
DQ09
DQ10
DQ11
DQ12
DQ13
DQ14


3D
LX601
TEM2117T
LX611
TEM2117T
CX607
0.1
CX606
0.1
CX601
47^
CX602
0.1
CX603
0.1
CX604
0.1
CX605
0.1
QX61
HY57V161610D
CX617
0.1
CX616
0.1
CX611
47^
CX612
0.1
CX613
0.1
CX614
0.1
CX615
0.1
QX62
HY57V161610D
DQ00
DQ01
DQ02
DQ03
DQ04
DQ05
DQ06
DQ07
DQ08
DQ09
DQ10
DQ11
DQ12
DQ13
DQ14


TO SIGNAL
UIN
GND
VIN
GND
YOUT
GND
UOUT
GND
VOUT
GND
+9V-1
+5V-4
GND
CX411 CH22
RX410 100
CX410 CH22
RX408 100
CX409 CH22
RX406 100
CX408 CH22
RX404 100
CX407 CH22
RX402 100
ZX402 TEM1012N
ZX401 TEM1012N
CX402 0.1^
CX401 0.1^
CX404 0.1^
CX406 16V470^
CX403 0.1^
CX405 16V470^
5.75V 0.66V(p-p)
5.95V 0.46V(p-p)
5.95V 0.56V(p-p)
LX431 TEM2011Y
LX432 OPEN
GND-F GND-DA GND-D
RX164 15K
RX165 200
CX165 0.1
LX163 PL-27
CX168 CH100
CX170 CH270
RX174 OPEN
CX171 0.1
IMZ1
RX175 1K
QX55 TA78L05F
IN GND OUT
CX434 16V1^
CX435 0.1
LX405 TEM2117T 9A
LX404 TEM2117T 5A
LX407 TEM2117T 5D1
LX403 TEM2117T 5D
QX51 BA033FP
LX402 TEM2117T 3A
LX401 TEM2129M 3D
RX431 1R0.47
CX431 10V1000^
CX432 16V0.33
CX433 0.1
CX436 16V22^
LX321 TEM2117T
QX42 2SC2712Y
CX330 16V47^
RX334 560
QX45 2SC2712Y
RX354 560
QX48 2SC2712Y
RX374 560
GND
4.7V(p-p) 15.6KHz
5V(p-p) 50Hz
5V(p-p) 31.25KHz
5V(p-p) 100Hz
PX02B J2P1N
HDIN
SCL2
SDA2
VDIN
NC(SCP)
GND
BMASK
VDOUT
CLAMP
BLK
HDOUT
GND
CX430 CH220
LX430 PL-1
RX430 220
CX429 CH33
LX429 PL-4.7
RX429 220
CX428 CH33
LX428 PL-4.7
RX428 220
CX427 CH220
LX427 PL-1
RX427 220
CX426 CH33
LX426 PL-1
RX426 100
CX425 CH220
LX425 PL-1
RX425 220
CX424 CH220
LX424 PL-1
RX424 220
CX423 CH220
LX423 PL-1
RX423 220
CX422 CH220
LX422 PL-1
RX422 220
CX421 CH220
LX421 PL-1
RX421 220
HD
SCL
SDA
VD
5V(p-p) 31.25KHz
5V(p-p) 31.25KHz
5V(p-p) 31.25KHz
LX271 TEM2117T 5A
RX626 2.2K
RX624 1K
RX627 100
QX63 IMX1
RX621 1.8K
RX622 2.2K
CX622 CH33
CX621 0.1
CX624 OPEN
RX625 OPEN
CX623 OPEN
RX623 100
CX271 10V10^
GND
1
2
3
4


LX150 TEM2117T
QX34 TC7S66F
RX193 10
RX178 470
QX33 2SA1162Y
RX177 470
CX179 10^
CX176 16V10^
CX177 0.1
CX180 0.1
VCA
LX321 TEM2117T
LX301 TEM2117T
3A
QX41 2SC2712Y
QX42 2SC2712Y
RX321 22K
RX325 100
CX322 OPEN
ZX321 TEM2027D
CX327 OPEN
RX332 820
RX331 150
RX330 820
LX322 PL-3.9
CX328 CH33
CX326 CH68
CX330 16V47^
RX334 560
RX333 OPEN
CX323 0.1
RX322 22K
GND
QX44 2SC2712Y
QX45 2SC2712Y
RX341 22K
RX345 100
CX342 OPEN
ZX341 TEM2027D
CX347 OPEN
RX352 680
RX351 120
RX350 820
LX342 PL-4.7
CX348 CH180
CX346 CH180
RX354 560
RX353 OPEN
CX343 0.1
RX342 22K
QX47 2SC2712Y
QX48 2SC2712Y
RX361 22K
RX365 100
CX362 OPEN
ZX361 TEM2027D
CX367 OPEN
RX372 680
RX371 120
RX370 820
LX362 PL-4.7
CX368 CH180
CX366 CH180
RX374 560
RX373 OPEN
CX363 0.1
RX362 22K
RX313 1.5K
RX314 100
QX37 2SC2712Y
RX312 100
QX56 2SA1162Y
RX307 2.2K
CX310 0.1
RX308 11K
RX309 1.2K
RX315 100
QX38 2SC2712Y
RX310 1.2K
RX316 100
QX39 2SC2712Y
RX311 1.2K
LX302 OPEN
RX301 200
RX302 2.7K
CX301 16V10^
CX302 0.1^
CX303 0.1^
RX303 200
RX304 2.7K
CX305 0.1^
CX306 0.1^
RX305 200
RX306 2.7K
CX308 0.1^
CX309 0.1^
QX54 RN1401
RX285 3.3K
RX290 OPEN
RVD
BM
ACL
BLK
RHD
SCL/SDA
HD/VD
5D
QX08 SN74AHCT1G32DCK
LX236 TEM2117T
RX280 470
CX237 0.1
CX283 OPEN
RX287 OPEN
QX09 SN74AHCT1G32DCK
RX292 100
CX238 0.1
RX288 OPEN
RX286 3.3K
CX239 0.1
QX57 RN1401
5A
LX271 TEM2117T
QX50 TC74HCT541AF
RX278 220
RX277 220
RX276 220
RX275 220
RX274 220
CX271 0.1
QX49 SN74AHC2G241
LX261 TEM2117T
RX263 100
RX261 100
CX261 0.1
RX262 OPEN
RX264 OPEN
CX262 CX263
VCC
GND
VSS
VDD
TESTU6
TESTU5
TESTU4
TESTU3
TESTU2
TESTU1
TESTU0
NC3
DOUT1
ATEST1
NC4
YAVD
YAOUT
YVRD
YAVS
YVREF
NC5
UAVD
UAOUT
UVRD
UAVS
UVREF
NC6
VAVD
VAOUT
VVRD
VAVS
VVREF
NC7
NC8
NC9
NC10
ATEST2
DOUT2
NC11
NC12
BM
LCP
ACL
DBLK
RHD
CX202 0.1


QX01
TC90A61F
QX53
TC7SH32FU
QX07
TLC2933
ZX202
TEM2027D
LX236
TEM2117T
LX237
TEM2117T
LX231
TEM2117T
LX232
TEM2117T
LX233
TEM2117T
LX235
OPEN
LX203
OPEN
RX281
47X4
RX282
47X4
RX283
47X4
RX284
47X4
RX205
47X4
RX206
47X4
RX207
47X4
RX208
47X4
RX209
47X4
RX210
47X4
RX236
4.7K
RX237
220
RX240
2.7K
RX257
OPEN
RX256
CHIP_JP
RX204
CHIP_JP
RX203
10K
RX202
10K
RX287
OPEN
RX288
OPEN
RX239
OPEN
RX238
OPEN
RX234
OPEN
RX235
270K
RX259
47
CX211
0.1^
CX209
0.1^
CX208
0.1^
CX219
OPEN
CX218
16V220^
CX236
16V100^
CX232
0.1^
CX233
OPEN
CX234
0.1^
CX235
2.2^
CX237
0.1
CX238
0.1
CX239
0.1
CX240
0.1^
CX231
0.1^
SCLK
5D
5D1
3D



G

H

I

J

K

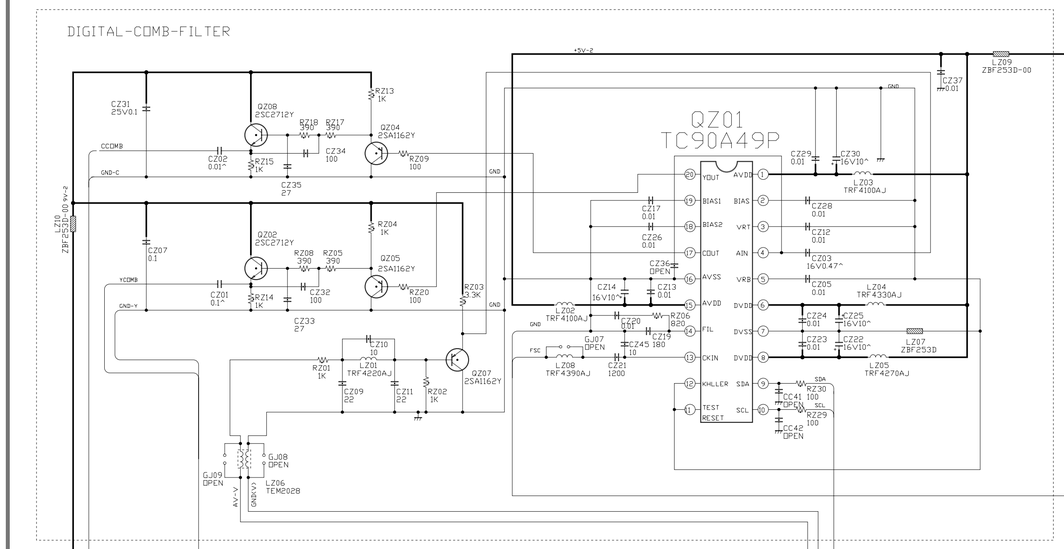
L

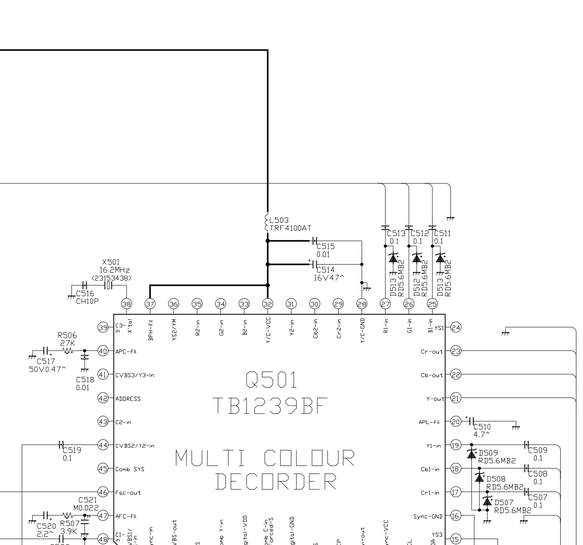
DFS Ver4.01 DualSDRAM
36ZP18P/32ZP18P

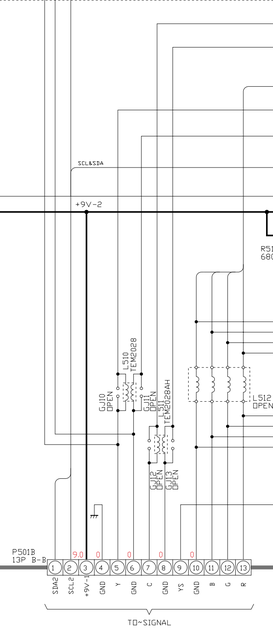
13 | 14 | 15 | 16

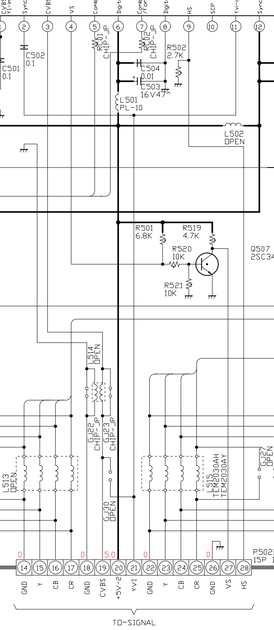
U103 D-COMB&MCD BOARD PB 9510A

DIGITAL-COMB-FILTER









UNIT SN.	
MCD	SN.2378487B
	SN.
	SN.
	SN.

COPPER SIDE PARTS	
	SN.
	SN.
	SN.
	SN.
	SN.

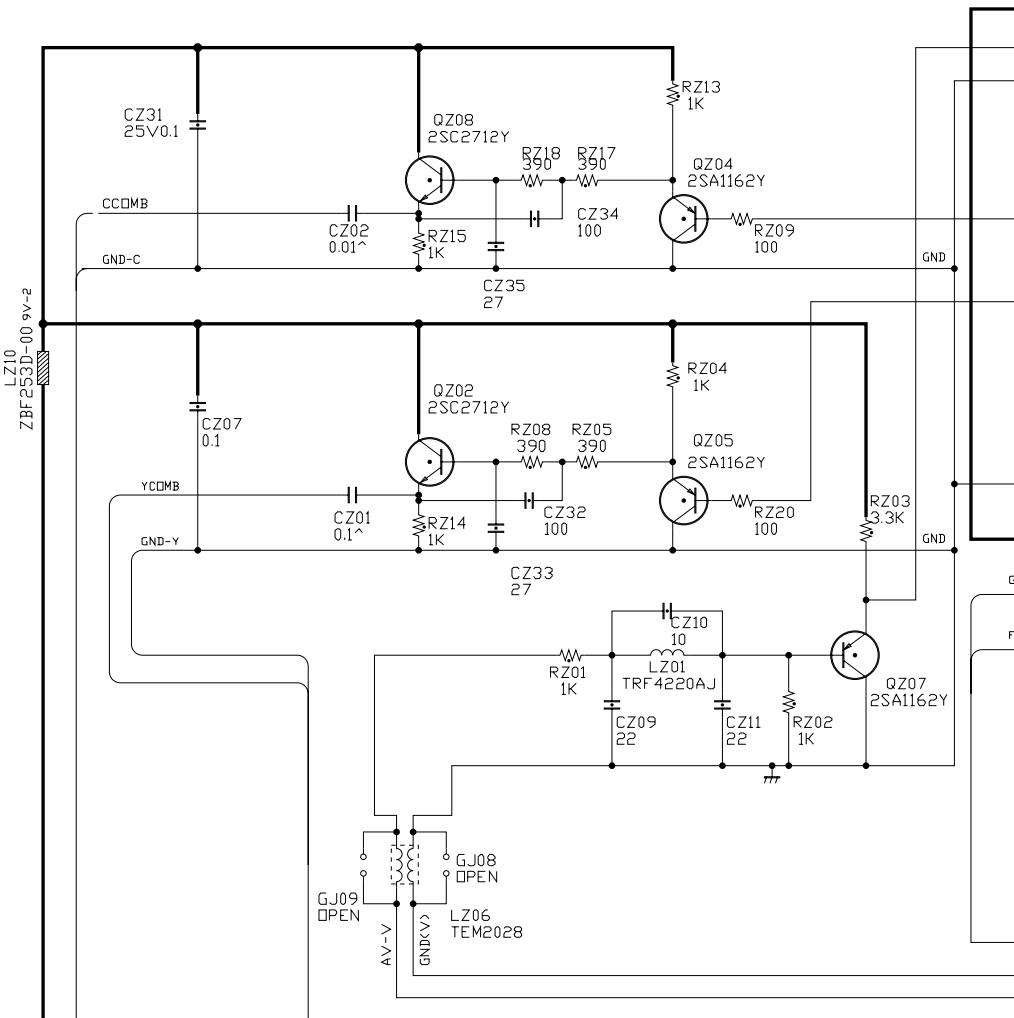
D-COMB&MCD PART
36ZP18P 32ZP18P

1 2 3

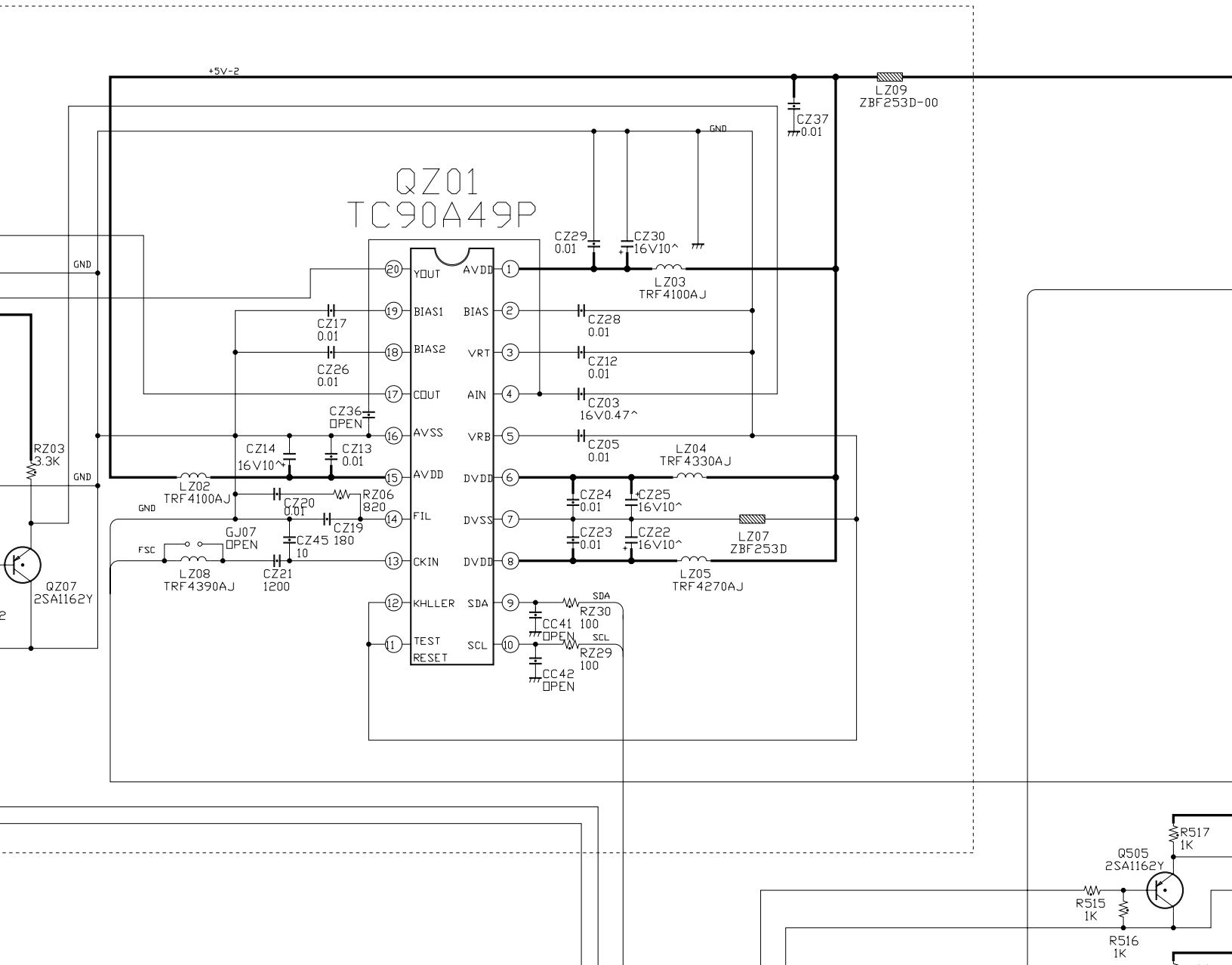
A B C D

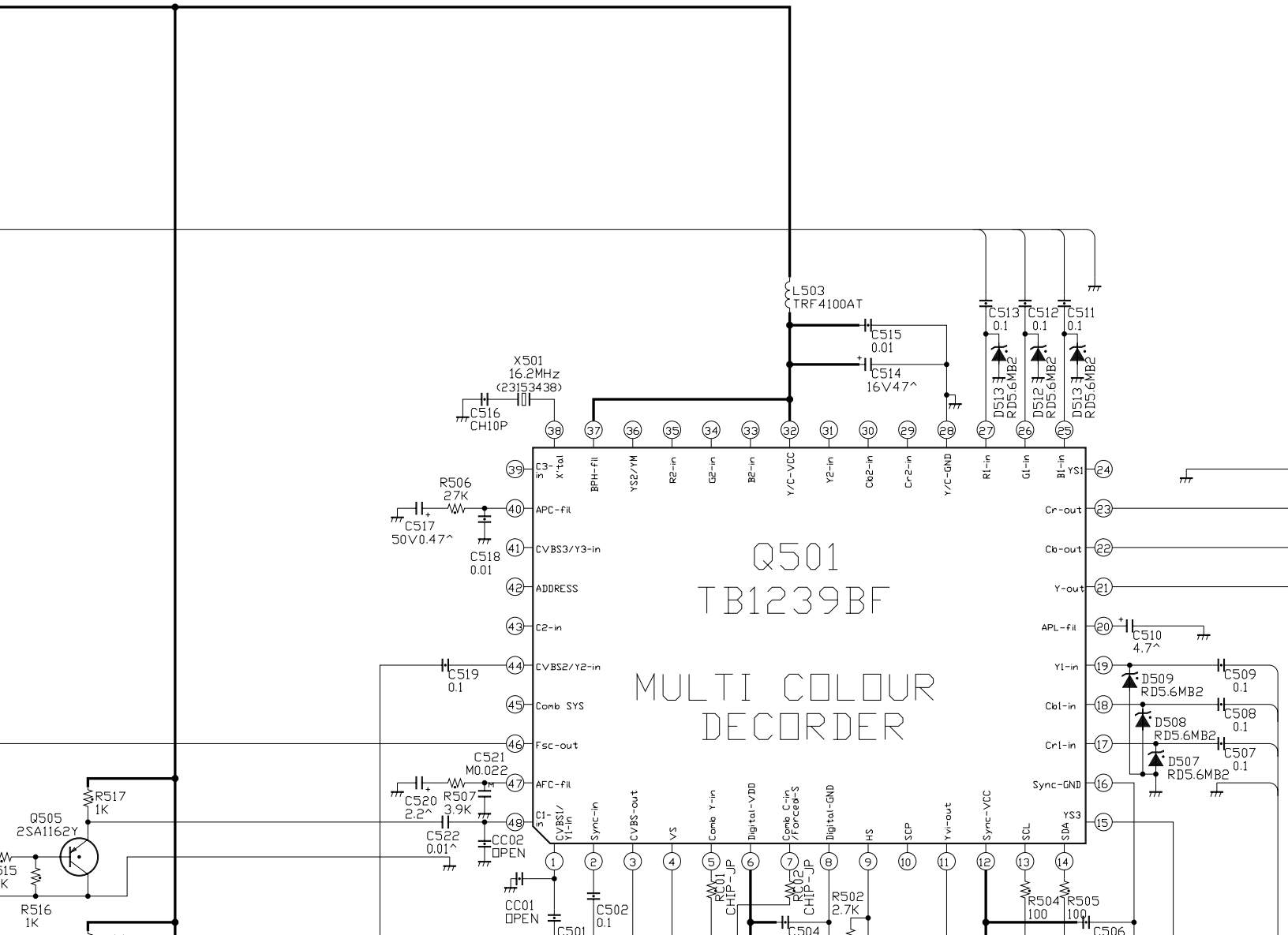
U103 D-COMB&MCD BOARD PB 9510

DIGITAL-COMB-FILTER

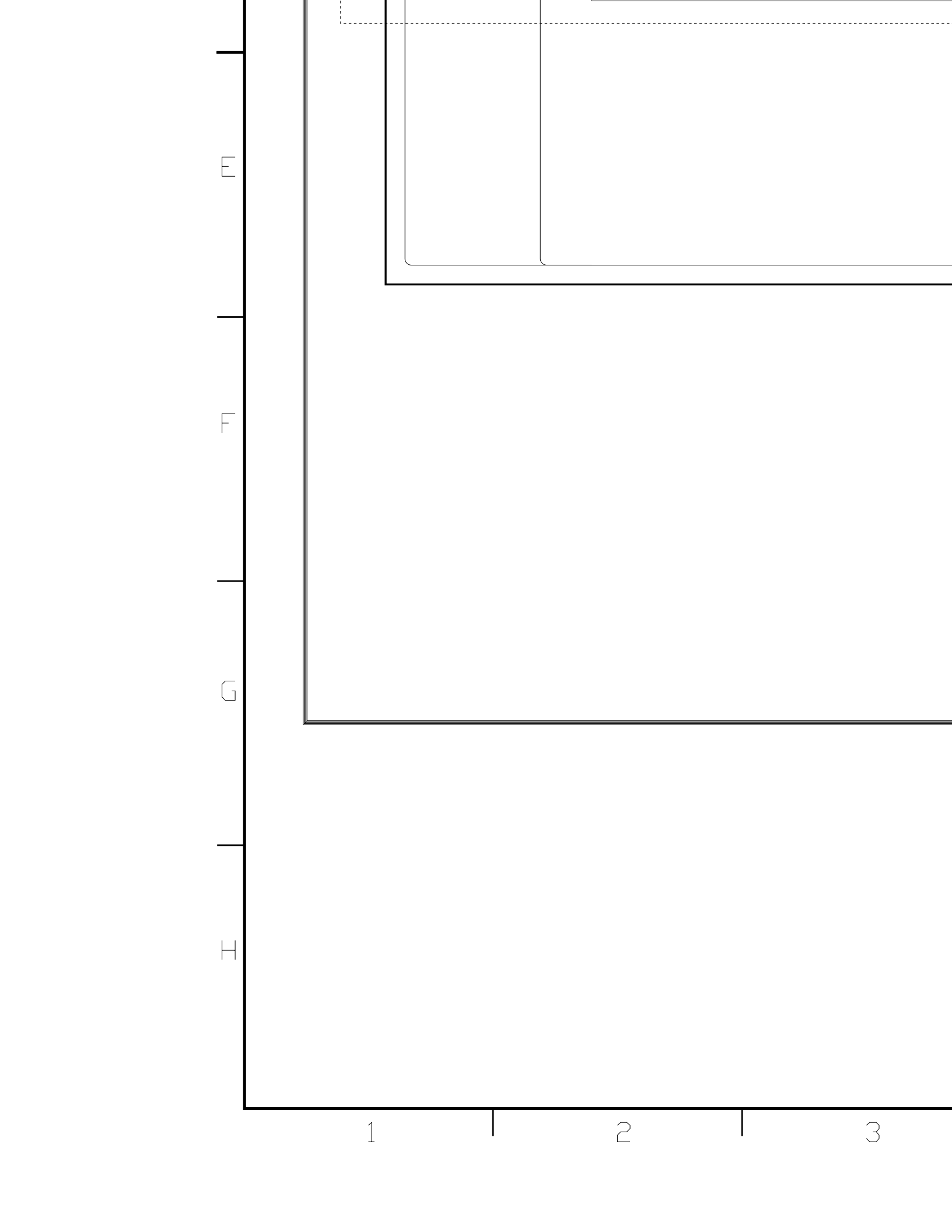


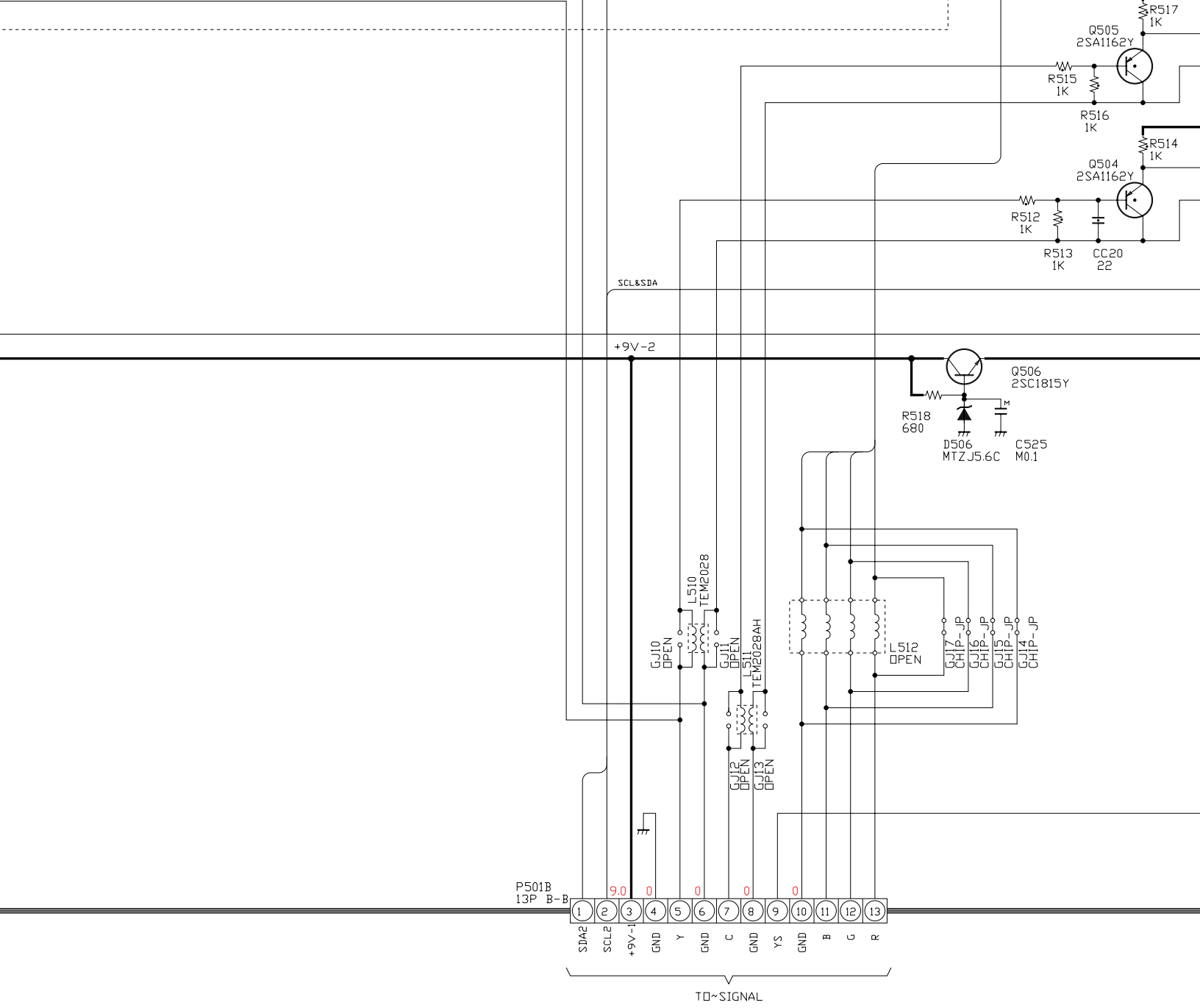
9510A

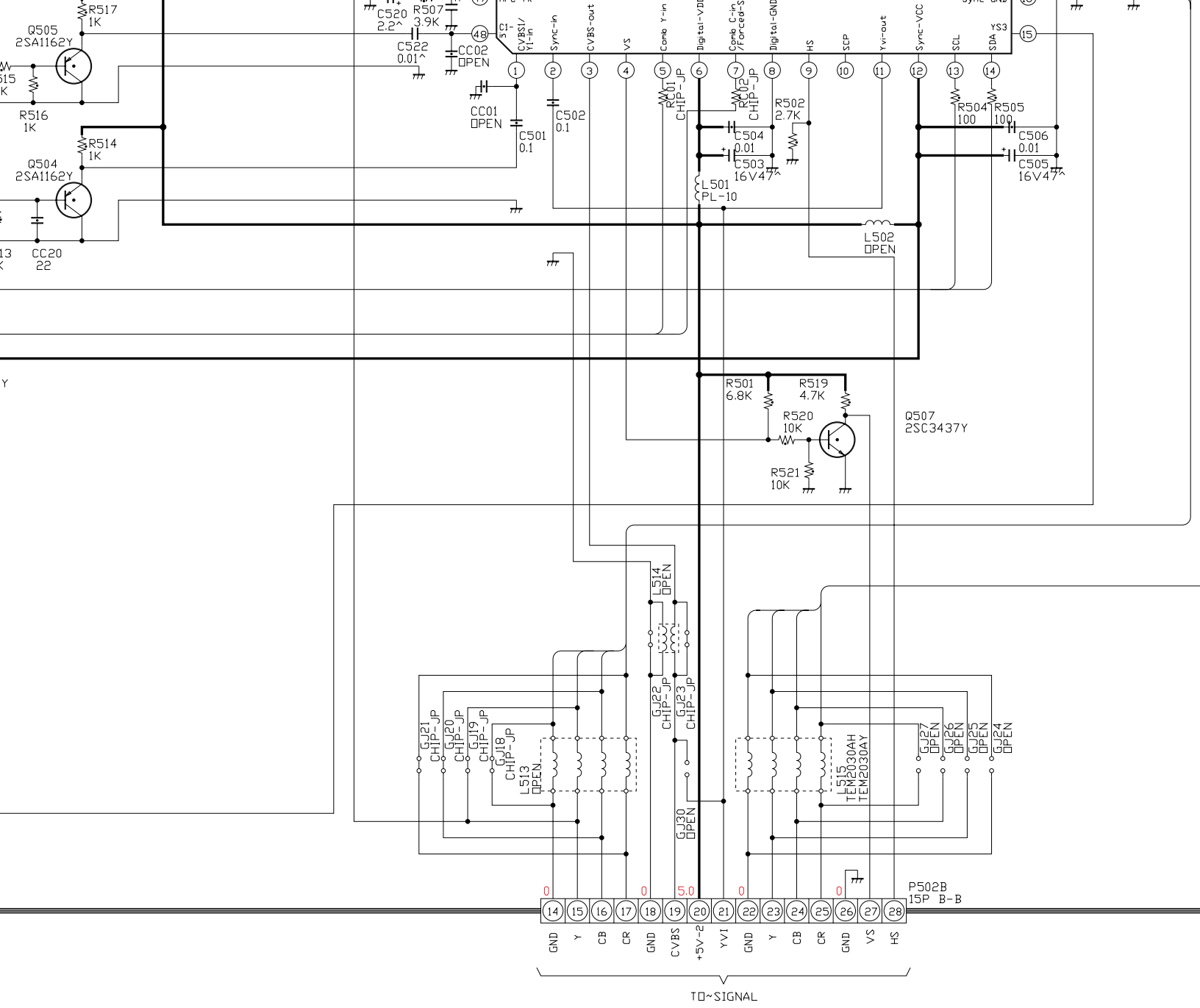

+5V-2
LZ09
ZBF253D-00
CZ37
0.01
GND
QZ01
TC90A49P
CZ29
0.01
CZ30
16V10^
LZ03
TRF4100AJ
YOUT
BIAS1
BIAS2
COUT
AVSS
AVDD
FIL
CKIN
KHLLER
TEST
RESET
AVDD
BIAS
VRT
AIN
VRB
DVDD
DVSS
DVDD
SDA
SCL
CZ17
0.01
CZ26
0.01
CZ36
OPEN
CZ14
16V10^
CZ13
0.01
CZ28
0.01
CZ12
0.01
CZ03
16V0.47^
CZ05
0.01
LZ04
TRF4330AJ
CZ24
0.01
CZ25
16V10^
CZ23
0.01
CZ22
16V10^
LZ07
ZBF253D
LZ05
TRF4270AJ
LZ02
TRF4100AJ
CZ20
0.01
RZ06
820
CZ19
GJ07
OPEN
CZ45 180
10
FSC
LZ08
TRF4390AJ
CZ21
1200
RZ03
3.3K
QZ07
2SA1162Y
SDA
RZ30
100
CC41
OPEN
SCL
RZ29
100
CC42
OPEN
R517
1K
Q505
2SA1162Y
R515
1K
R516
1K


Q501
TB1239BF
MULTI COLOUR
DECORDER
L503
TRF4100AT
C515
0.01
C514
16V47^
C513
0.1
C512
0.1
C511
0.1
D513
RD5.6MB2
D512
RD5.6MB2
D513
RD5.6MB2
X501
16.2MHz
(23153438)
C516
CH10P
R506
27K
C517
50V0.47^
C518
0.01
C519
0.1
C521
M0.022
R507
3.9K
C520
2.2^
C522
0.01^
CC02
OPEN
R517
1K
Q505
2SA1162Y
R516
1K
CC01
OPEN
C501
C502
0.1
R501
CHIP-JP
R502
2.7K
R503
CHIP-JP
C504
R504
100
R505
100
C506
C510
4.7^
D509
RD5.6MB2
C509
0.1
D508
RD5.6MB2
C508
0.1
D507
RD5.6MB2
C507
0.1
X'tal
BPH-fil
YS2/YM
R2-in
G2-in
B2-in
Y/C-VCC
Y2-in
Cb2-in
Cr2-in
Y/C-GND
R1-in
G1-in
B1-in
YS1
APC-fil
CVBS3/Y3-in
ADDRESS
C2-in
CVBS2/Y2-in
Comb SYS
Fsc-out
AFC-fil
C1-
CVBS1/
Y1-in
Sync-in
CVBS-out
VS
Comb Y-in
Digital-VDD
Comb C-in
/forced-S
Digital-GND
HS
SCP
Yi-out
Sync-VCC
SCL
SDA
YS3
Cr-out
Cb-out
Y-out
APL-fil
Yi-in
Cbi-in
Cri-in
Sync-GND


10
11
12
A
B
C
D
C510
.7^
D509
RD5.6MB2
C509
0.1
D508
RD5.6MB2
C508
0.1
D507
RD5.6MB2
C507
0.1

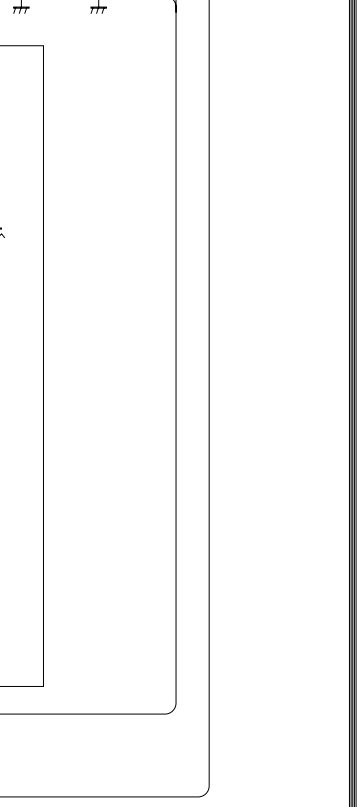

E
F
G
H
1
2
3


R517
1K
Q505
2SA1162Y
R515
1K
R516
1K
R514
1K
Q504
2SA1162Y
R512
1K
R513
1K
CC20
22
SCL&SDA
+9V-2
Q506
2SC1815Y
R518
680
D506
MTZJ5.6C
C525
M0.1
L510
TEM2028
GJ10
OPEN
GJ11
OPEN
L511
TEM2028AH
GJ12
OPEN
GJ13
OPEN
L512
OPEN
GJ17
CHIP_JP
GJ16
CHIP_JP
GJ15
CHIP_JP
GJ14
CHIP_JP
P501B
13P B-B
9.0
0
0
0
0
1
2
3
4
5
6
7
8
9
10
11
12
13
SDA2
SCL2
+9V-1
GND
Y
GND
C
GND
YS
GND
B
G
R
TO~SIGNAL



UNIT SN.	
MCD	SN.23784878
	SN.
	SN.
	SN.

COPPER SIDE PARTS	
	SN.
	SN.
	SN.
	SN.
	SN.



E

F

G

H

D-COMB&MCD PART
36ZP18P 32ZP18P

10 11 12

U102A BACK-T AV BOARD PB9950-1

AUDIO OUT (FIXED)

COMPONENT AUDIO IN

COMPONENT VIDEO-INPUT

M515

M502

PB9950-2

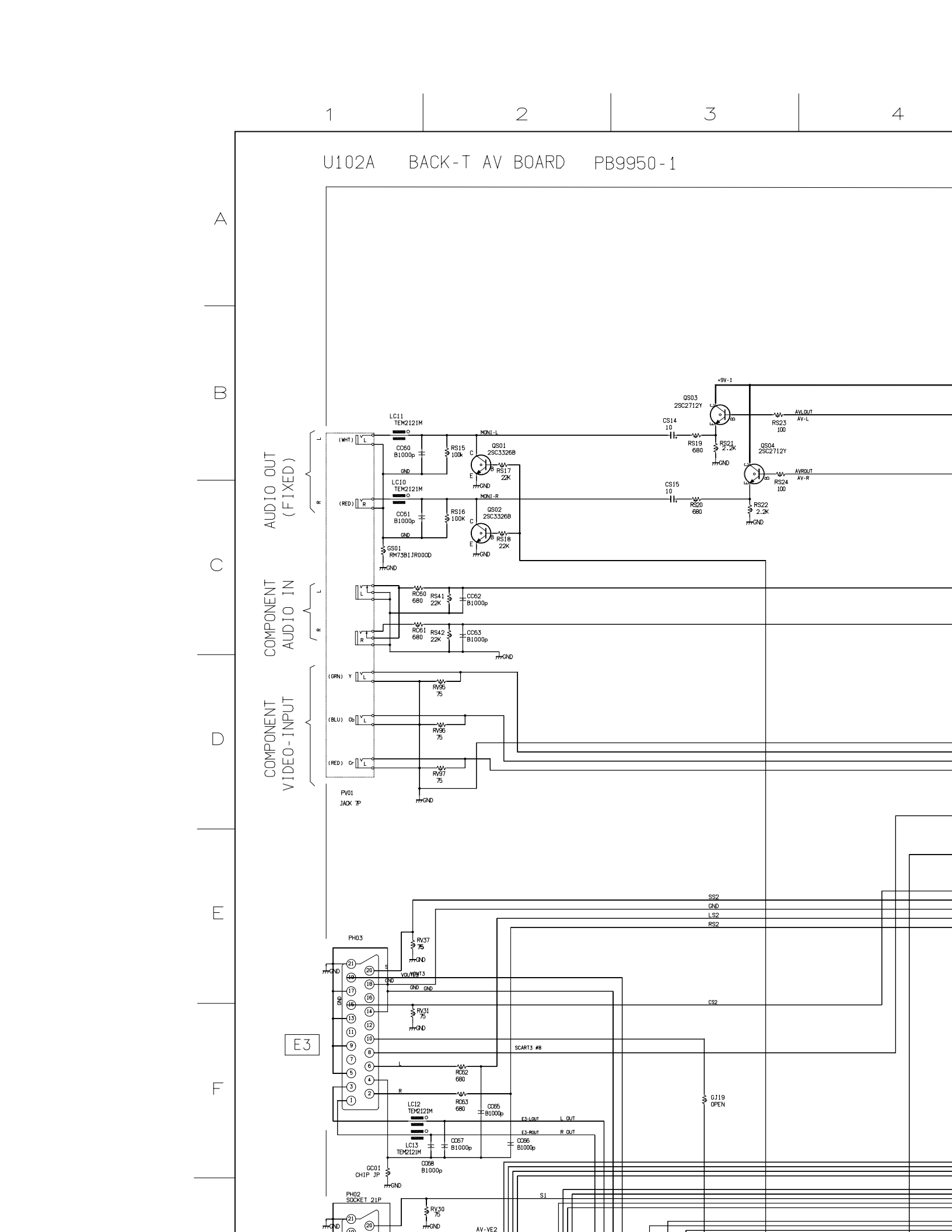
M501

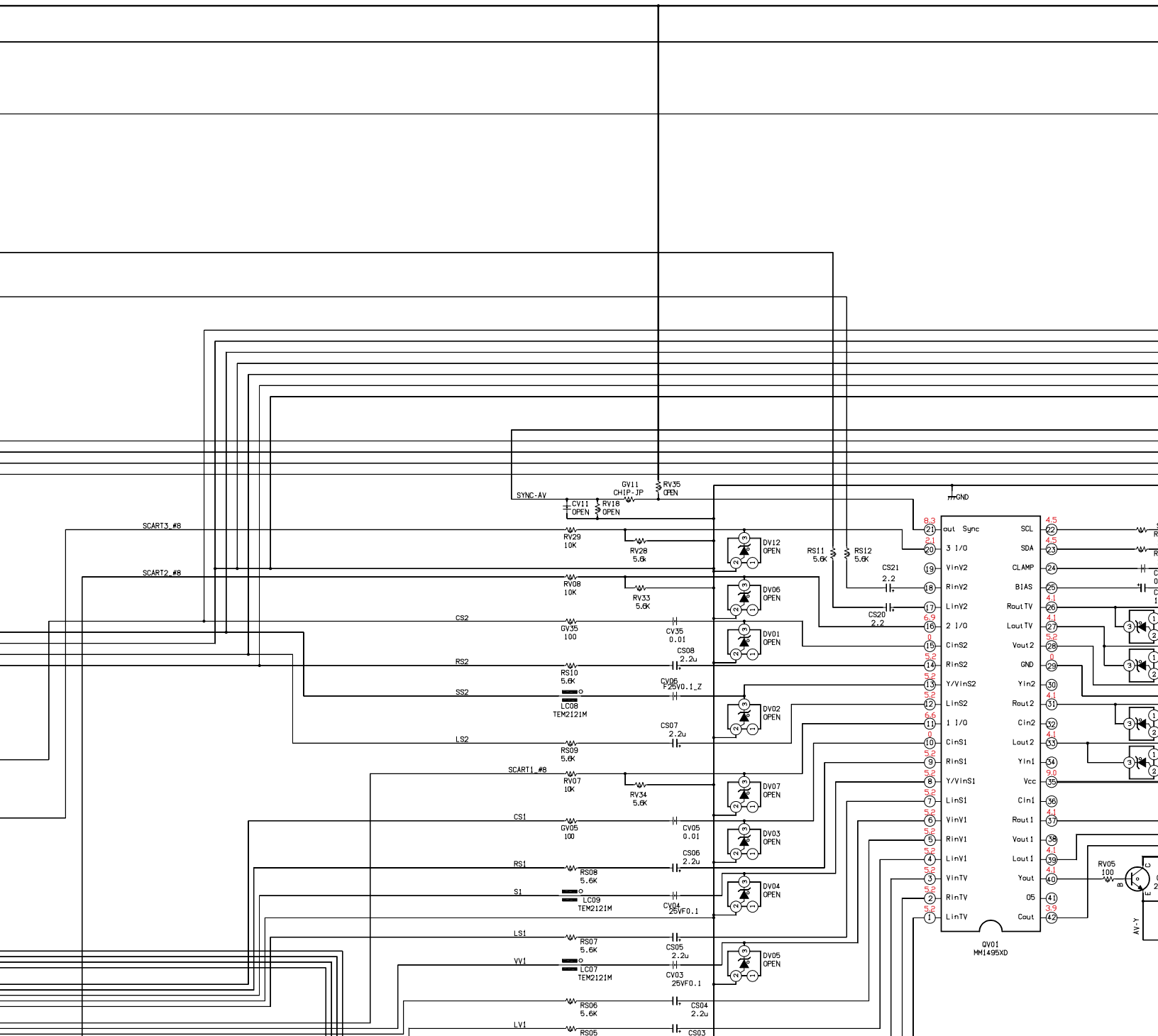
FRONT RIGHT SPEAKER

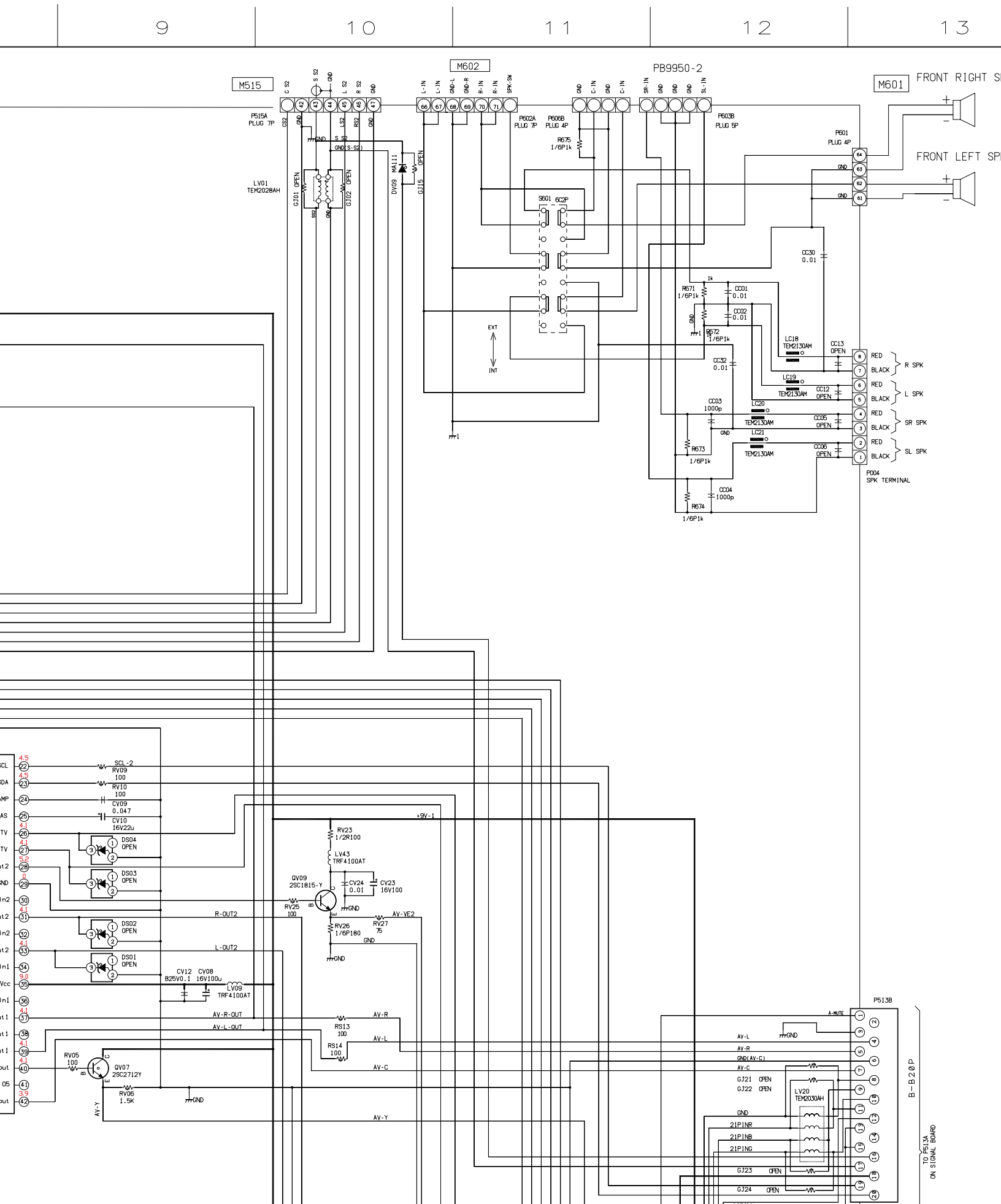
FRONT LEFT SPEAKER

DIGITAL-IN PB9950-2

BACK AV/BACK Dgital-IN
36ZP18P/32ZP18P


1
2
3
4
A
B
C
D
E
F
U102A BACK-T AV BOARD PB9950-1
AUDIO OUT (FIXED)
COMPONENT AUDIO IN
COMPONENT VIDEO-INPUT
LC11 TEM2121M
LC10 TEM2121M
CC60 B1000p
CC61 B1000p
RS15 100k
RS16 100K
RS17 22K
RS18 22K
QS01 2SC3326B
QS02 2SC3326B
GS01 RM73B1JR00GD
MONI-L
MONI-R
+9V-1
QS03 2SC2712Y
QS04 2SC2712Y
CS14 10
CS15 10
RS19 680
RS20 680
RS21 2.2K
RS22 2.2K
RS23 100
RS24 100
AVLOUT AV-L
AVROUT AV-R
RC60 680
RC61 680
RS41 22K
RS42 22K
CC62 B1000p
CC63 B1000p
RV95 75
RV96 75
RV97 75
PV01 JACK 7P
PH03
RV37 75
RV31 75
RC62 680
RC63 680
CC65 B1000p
CC66 B1000p
CC67 B1000p
CC68 B1000p
LC12 TEM2121M
LC13 TEM2121M
GC01 CHIP JP
PH02 SOCKET 21P
RV30 75
E3
SS2
GND
LS2
RS2
CS2
SCART3 #8
GJ19 OPEN
E3-LOUT
E3-ROUT
L OUT
R OUT
S1
AV-VE2


SYNC-AV
SCART3_#8
SCART2_#8
SCART1_#8
CS2
RS2
SS2
LS2
CS1
RS1
S1
LS1
VV1
LV1
GV11 CHIP-JP
RV35 OPEN
CV11 OPEN
RV18 OPEN
RV29 10K
RV28 5.6K
RV08 10K
RV33 5.6K
GV35 100
CV35 0.01
CS08 2.2u
RS10 5.6K
CV06 25V0.1_Z
LC08 TEM2121M
CS07 2.2u
RS09 5.6K
RV07 10K
RV34 5.6K
GV05 100
CV05 0.01
CS06 2.2u
RS08 5.6K
LC09 TEM2121M
CV04 25VF0.1
RS07 5.6K
CS05 2.2u
LC07 TEM2121M
CV03 25VF0.1
RS06 5.6K
CS04 2.2u
RS05
CS03
DV12 OPEN
DV06 OPEN
DV01 OPEN
DV02 OPEN
DV07 OPEN
DV03 OPEN
DV04 OPEN
DV05 OPEN
GND
RS11 5.6K
RS12 5.6K
CS21 2.2
CS20 2.2
out Sync
3 I/O
VinV2
RinV2
LinV2
2 I/O
CinS2
RinS2
Y/VinS2
LinS2
1 I/O
CinS1
RinS1
Y/VinS1
LinS1
VinV1
RinV1
LinV1
VinTV
RinTV
LinTV
SCL
SDA
CLAMP
BIAS
RoutTV
LoutTV
Vout2
GND
Yin2
Rout2
Cin2
Lout2
Yin1
Vcc
Cin1
Rout1
Vout1
Lout1
Yout
O5
Cout
QV01 MM1495XD
RV05 100
AV-Y


9
10
11
12
13
M515
M602
PB9950-2
M601
FRONT RIGHT SP
FRONT LEFT SP
P515A
PLUG 7P
P602A
PLUG 7P
P606B
PLUG 4P
P603B
PLUG 5P
P601
PLUG 4P
LV01
TEM2028AH
S601 6C2P
EXT
INT
R675
1/6P1k
R671
1/6P1k
R672
1/6P1k
R673
1/6P1k
R674
1/6P1k
CC01
0.01
CC02
0.01
CC03
1000p
CC04
1000p
CC30
0.01
CC32
0.01
CC13
OPEN
CC12
OPEN
CC05
OPEN
CC06
OPEN
LC18
TEM2130AM
LC19
TEM2130AM
LC20
TEM2130AM
LC21
TEM2130AM
RED
BLACK
R SPK
L SPK
SR SPK
SL SPK
P004
SPK TERMINAL
SCL-2
RV09
100
RV10
100
CV09
0.047
CV10
16V22u
DS04
OPEN
DS03
OPEN
DS02
OPEN
DS01
OPEN
R-OUT2
L-OUT2
CV12
B25V0.1
CV08
16V100u
LV09
TRF4100AT
+9V-1
RV23
1/2R100
LV43
TRF4100AT
QV09
2SC1815-Y
CV24
0.01
CV23
16V100
RV25
100
RV26
1/6P180
RV27
75
AV-VE2
AV-R-OUT
AV-L-OUT
AV-R
AV-L
AV-C
AV-Y
RS13
100
RS14
100
RV05
100
QV07
2SC2712Y
RV06
1.5K
P513B
A-MUTE
GJ21 OPEN
GJ22 OPEN
LV20
TEM2030AH
GJ23 OPEN
GJ24 OPEN
2PINR
2PINB
2PING
B-B20P
TO P513A
ON SIGNAL BOARD

601 FRONT RIGHT SPEAKER

FRONT LEFT SPEAKER

R SPK

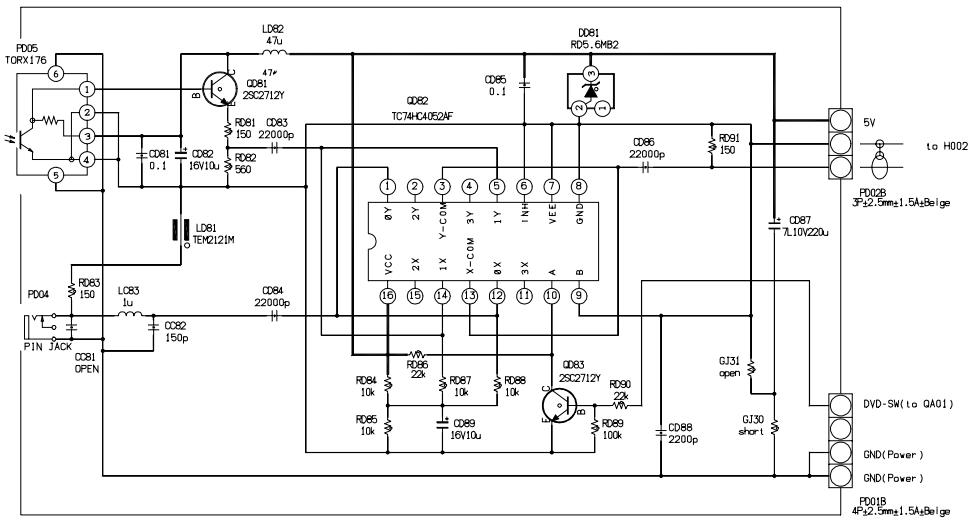
L SPK

SR SPK

SL SPK

ERMINAL

DIGITAL-IN PB9950-2

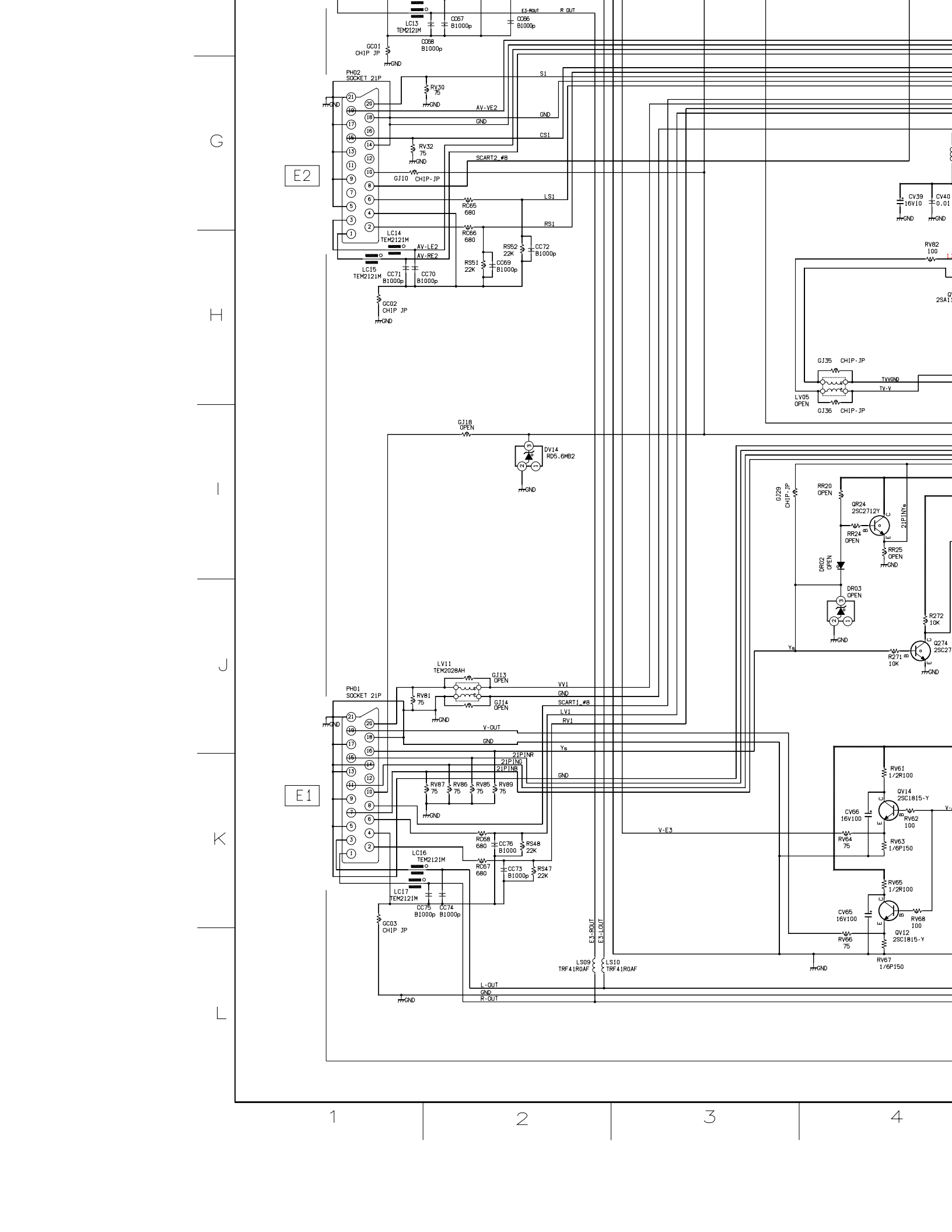


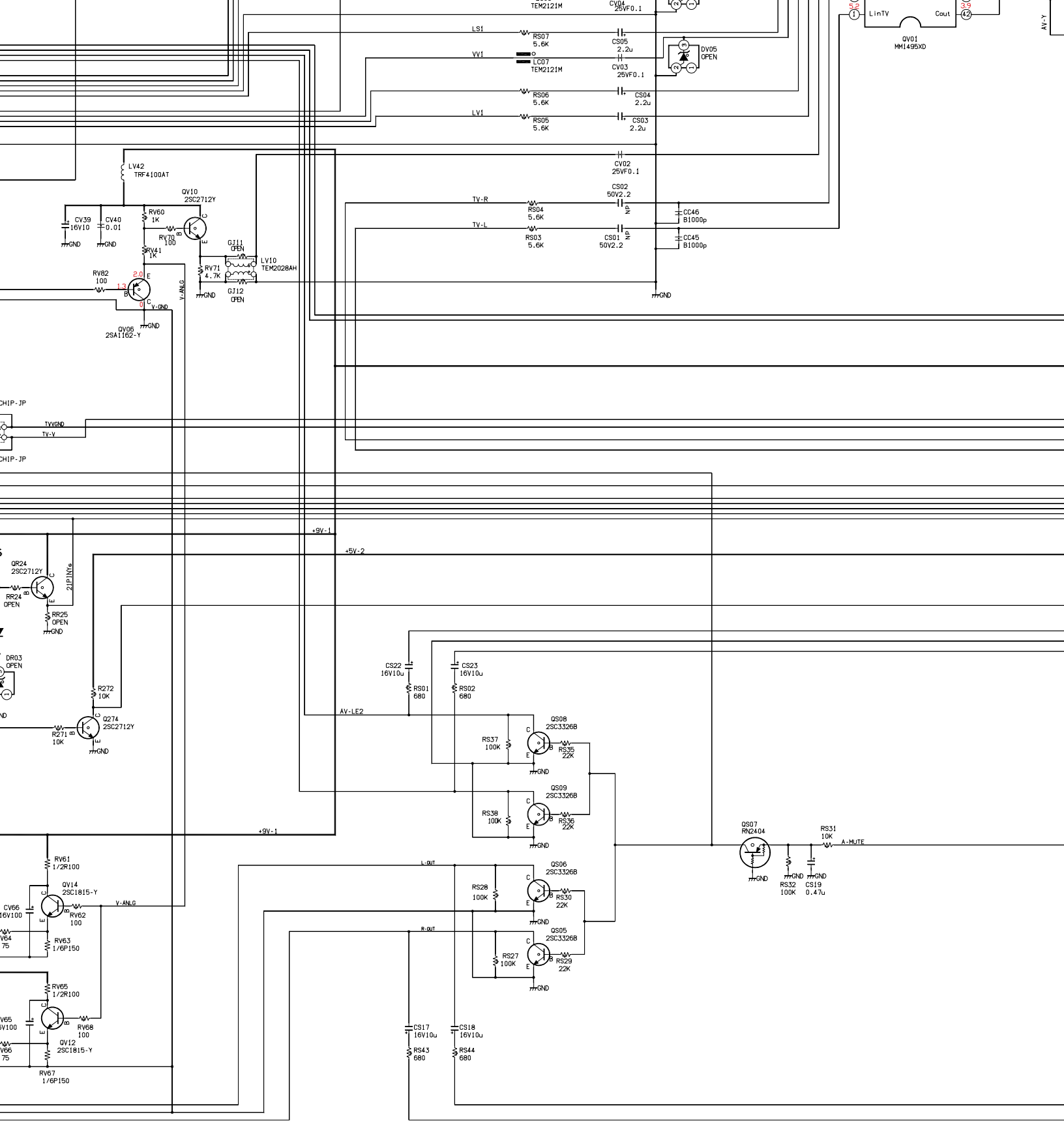
3B

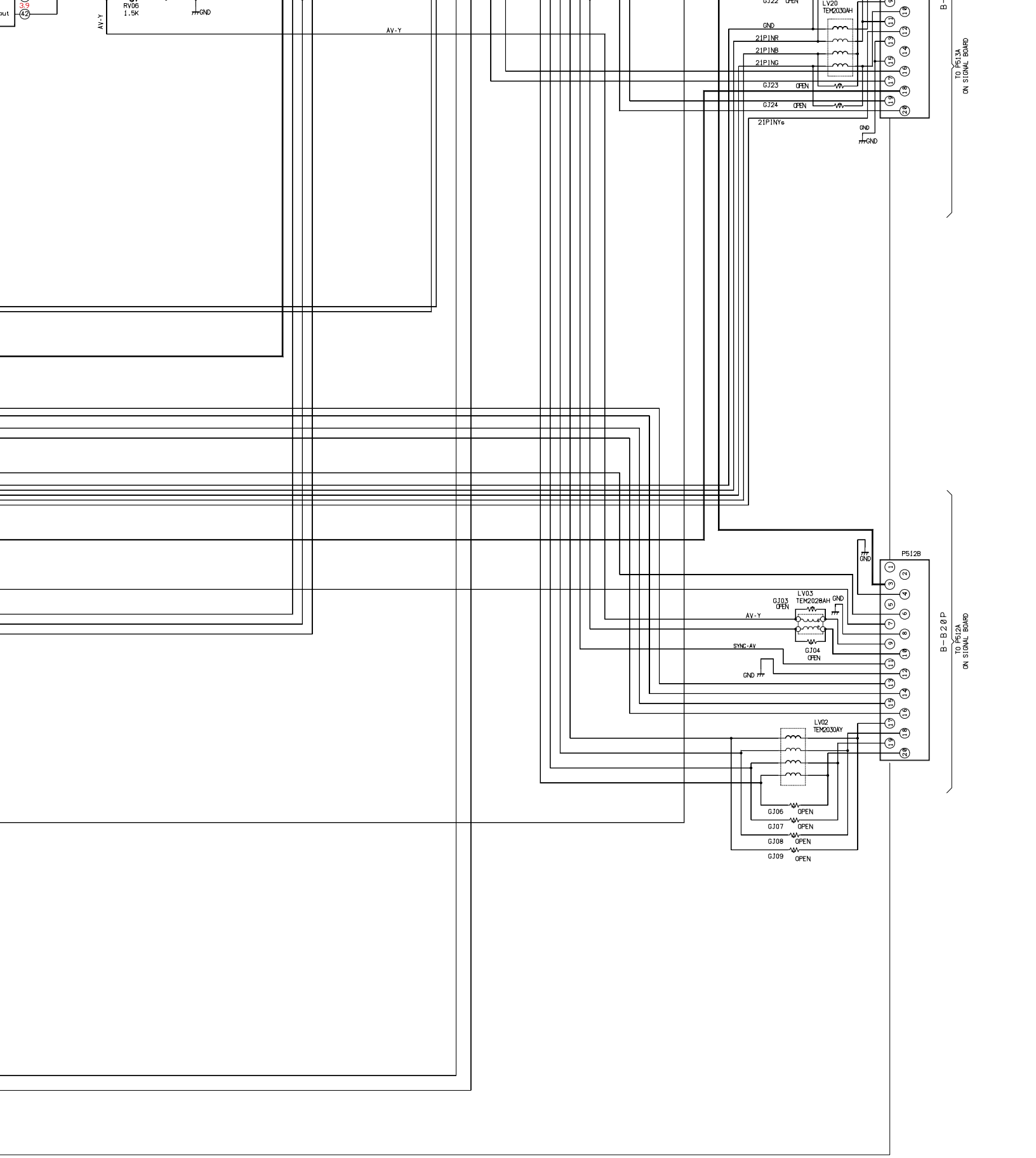
B-B20P

TO P613A
ON SIGNAL BOARD

A B C D E F


E3-ROUT
R OUT
LC13 TEM2121M
CC67 B1000p
CC66 B1000p
CC68 B1000p
GC01 CHIP JP
GND
PH02 SOCKET 21P
S1
RV30 75
AV-VE2
GND
CS1
RV32 75
SCART2_#8
GJ10 CHIP-JP
LS1
RC65 680
RS1
RC66 680
LC14 TEM2121M
AV-LE2
AV-RE2
RS62 22K
CC72 B1000p
RS61 22K
CC69 B1000p
LC15 TEM2121M
CC71 B1000p
CC70 B1000p
GC02 CHIP JP
CV39 16V10
CV40 0.01
RV82 100
GJ35 CHIP-JP
TVVGND
TV-V
LV05 OPEN
GJ36 CHIP-JP
GJ18 OPEN
DV14 RD5.6MB2
GJ29 CHIP-JP
RR20 OPEN
QR24 2SC2712Y
21PINYs
RR24 OPEN
RR25 OPEN
DR02 OPEN
DR03 OPEN
R272 10K
Q274 2SC27
R271 10K
LV11 TEM2028AH
GJ13 OPEN
GJ14 OPEN
PH01 SOCKET 21P
RV81 75
VV1
SCART1_#8
LV1
RV1
V-OUT
Ys
21PINR
21PING
21PINB
RV87 75
RV86 75
RV85 75
RV89 75
RC68 680
CC76 B1000
RS48 22K
RC67 680
CC73 B1000p
RS47 22K
LC16 TEM2121M
LC17 TEM2121M
CC75 B1000p
CC74 B1000p
GC03 CHIP JP
V-E3
RV61 1/2R100
QV14 2SC1815-Y
CV66 16V100
RV62 100
RV64 75
RV63 1/6P150
RV65 1/2R100
CV65 16V100
RV68 100
RV66 75
QV12 2SC1815-Y
RV67 1/6P150
E3-ROUT
E3-LOUT
LS09 TRF41R0AF
LS10 TRF41R0AF
L-OUT
R-OUT
E2
E1
G
H
I
J
K
L
1
2
3
4


LS1
RS07 5.6K
CS05 2.2u
VV1
LC07 TEM2121M
CV03 25VF0.1
DV05 OPEN
RS06 5.6K
CS04 2.2u
LV1
RS05 5.6K
CS03 2.2u
CV02 25VF0.1
TV-R
RS04 5.6K
CS02 50V2.2 NP
CC46 B1000p
TV-L
RS03 5.6K
CS01 50V2.2 NP
CC45 B1000p
GND
LinTV
Cout
QV01 MM1495XD
AV-Y
LV42 TRF4100AT
QV10 2SC2712Y
CV39 16V10
CV40 0.01
RV60 1K
RV70 100
RV41 1K
GJ11 OPEN
LV10 TEM2028AH
RV71 4.7K
GJ12 OPEN
RV82 100
V-ANLG
V-GND
QV06 2SA1162-Y
CHIP-JP
TVVGND
TV-V
+9V-1
+5V-2
QR24 2SC2712Y
RR24 OPEN
RR25 OPEN
21PINVs
DR03 OPEN
R272 10K
Q274 2SC2712Y
R271 10K
AV-LE2
CS22 16V10u
CS23 16V10u
RS01 680
RS02 680
QS08 2SC3326B
RS37 100K
RS35 22K
QS09 2SC3326B
RS38 100K
RS36 22K
QS07 RN2404
RS31 10K
A-MUTE
RS32 100K
CS19 0.47u
L-OUT
QS06 2SC3326B
RS28 100K
RS30 22K
R-OUT
QS05 2SC3326B
RS27 100K
RS29 22K
RV61 1/2R100
QV14 2SC1815-Y
RV62 100
RV63 1/6P150
RV65 1/2R100
RV68 100
QV12 2SC1815-Y
RV67 1/6P150
CS17 16V10u
CS18 16V10u
RS43 680
RS44 680


RV06
1.5K
GND
AV-Y
LV20
TEM2030AH
GND
21PINR
21PINB
21PING
GJ23 OPEN
GJ24 OPEN
21PINYs
GND
B-B13P
TO P513A
ON SIGNAL BOARD
P512B
GND
LV03
TEM2028AH
GJ03
OPEN
GND
AV-Y
GJ04
OPEN
SYNC-AV
GND
LV02
TEM2030AY
GJ06 OPEN
GJ07 OPEN
GJ08 OPEN
GJ09 OPEN
B-B20P
TO P512A
ON SIGNAL BOARD

B-

TO P513A
ON SIGNAL BOARD

B-B20P

TO P512A
ON SIGNAL BOARD

G

H

I

J

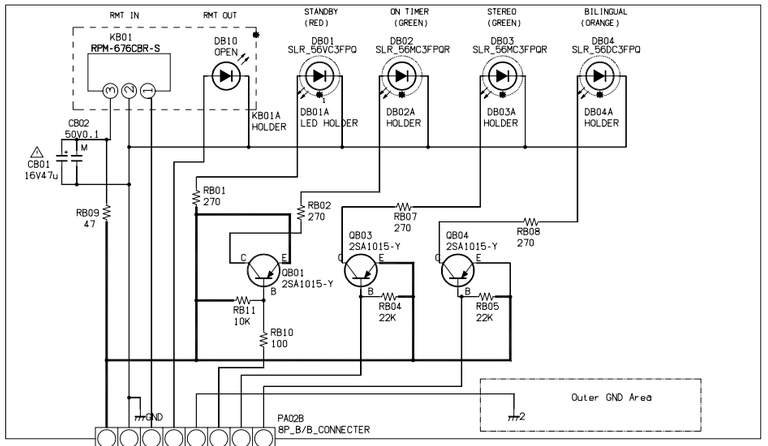
K

L

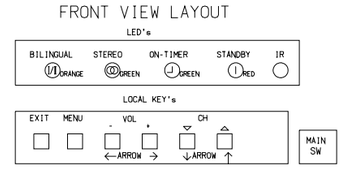
BACK AV/BACK Dgital-IN
36ZP18P/32ZP18P

13 | 14 | 15 | 16

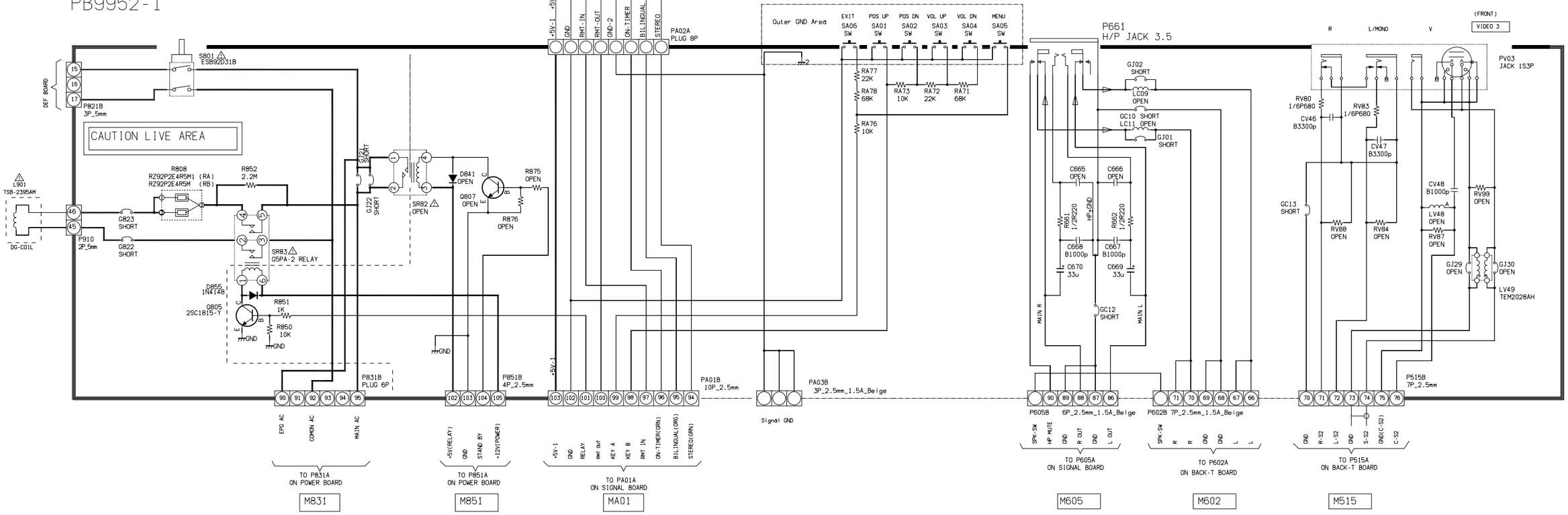
U906B LED BOARD PB9952-2



FRONT VIEW LAYOUT



U906A CONTROL BOARD PB9952-1



CONTROL/LED
36ZP18P/32ZP18P

CRTD VSM PB9955A

M902

ON VCD BOARD

VM
GND
GND
GND
R
G
B
+9V-1

P902B
8P_2.5mm
PLUG 8P

GJ03 SHORT TAS WIRE R60
GJ02 SHORT TAS WIRE R60

L908 TRF4100AT

M701

TO P701A
ON POWER BOARD

+12SV
GND
+12V-2

PLUG 4P
4P_2.5mm
P701B

L701 TRF4100AT

Q901 2SC5147
Q902 2SC1815-Y
Q903 2SC5147
Q904 2SC1815-Y
Q905 2SC5147
Q906 2SC1815-Y
Q907 2SA562TM-Y
Q908 2SC2120-Y(TE
Q909 2SC1815-Y
Q910 2SC1815-Y
Q911 2SC1815-Y
Q912 2SA1015-Y
Q913 2SA1015-Y
Q914 2SC1815-Y
Q915 2SA1015-Y
Q705 2SC1815-Y
Q706 2SC1815-Y
Q707 2SC752GTM
Q709 2SC1815-Y
Q710 2SA1015-Y
Q711 2SB1569A
Q712 2SD2400A

D901 1N4148
D902 1N4148
D903 1N4148
D904 1N4148
D905 1N4148
D906 1N4148
D907 1N4148
D908 1N4148
D909 1N4148
D910 OPEN
D911 BYD33J
D704 1N4148
D705 1N4148
D715 1N4148
D721 1N4148

L902 TRF4101AT
L903 TRF4101AT
L904 TRF4101AT
L905 TRF4150AT
L906 TRF4150T
L907 TRF4150AT
L910 TRF4100AT
L911 100u
L912 2SA1015-Y
L704 TER2011
L705 TER2011
L702 HCS-035

V901 FLAT WIDE CPT 36/32" W86LTQ350X99/W76LTR350Z99
V901A SOCKET CRT

P906 OPEN
PLUG 9P

P904 ON DEF BOARD

M904 8Z009 9P_2.5mm

P705 3P_2.5mm
PLUG 3P

SVM M703

104Vp-p
102Vp-p
103Vp-p

CRT-D
36ZP18P 32ZP18P

E/W UNIT PB9517D

U904 DEF PB9951

TO BB14 ON SIGNAL BOARD

TO BB15 ON SIGNAL BOARD

BB14B 8P 2.5PJ-P

BB15B 8P 2.5PJ-P

P403A 10P PLUG

P402A 10P PLUG

SCL-2

SDA-2

+9V-1

-15V

+15V

-27V

+30V

+125V

+200V

Q301 LA78335

Q301A HEAT SINK

50V(p-p)(V)

1.3V(p-p)(V)

Q303 2SA1015-Y

Q470 2SC1815-Y

Q200 2SC2482

Q370 2SA1015-Y

Q402 2SC2235-DFA1

Q404 2SC3570(FA)

Q404A HEAT SINK

Q462 2SC1815-Y

Q460A HEAT SINK

Q4491 2SK2003-01MR

Q4490 TLP521-1FA

270V(p-p)(H)

150V(p-p)(H)

1050V(p-p)(H)

27V(p-p)(H)

H.DRIVE TRANS

H-OUT

T401 TLN1080 (RA) (RB)

T801 TRF3231AL (RA) TRF3231AG (RB)

T461 TFB4173AD

T400 TLN2168AH

L442 TLN3329AD

L443 TLN2204AG

L462(1TC)

D313 1N4148

D312 1N4148

D441 MTZJ9.1B

D303 OPEN

D301 EU2A

D308 ERB12-02

D309 ERB12-02

D415 EU2A

D302 EU2A

D304 EU2A

D474 MTZJ12B

D370 BYD33J

D371 BYD33J

D460 BYD33J

D406 BYD33J

D463 1N4148

D240 1N4148

D499 1N4148

D498 MTZJ27A

D466 MTZJ5.6B

D465 MTZJ12B

D464 MTZJ12A

D467 BYD33J

D404A HEAT SINK

D403A HEAT SINK

J403C IPVC 1/0.6BLU

TO V901 CPT ANODE

TO P812A ON POWER BOARD WITH MB12

TO BB16B ON POWER BOARD

TO P821B ON CONT-1 BOARD

TO CRT-D BOARD

P812B 6P_2.5mm

BB16A 8P 2.5PJ-P

P821A 8P_5mm

P903A 9P_2.5mm

P903A 16P_2.5mm

P401 6P_5mm

P448 3P

P603A 16P_2.5mm

P801 OPEN

P821B 17P_5mm

M821

M401

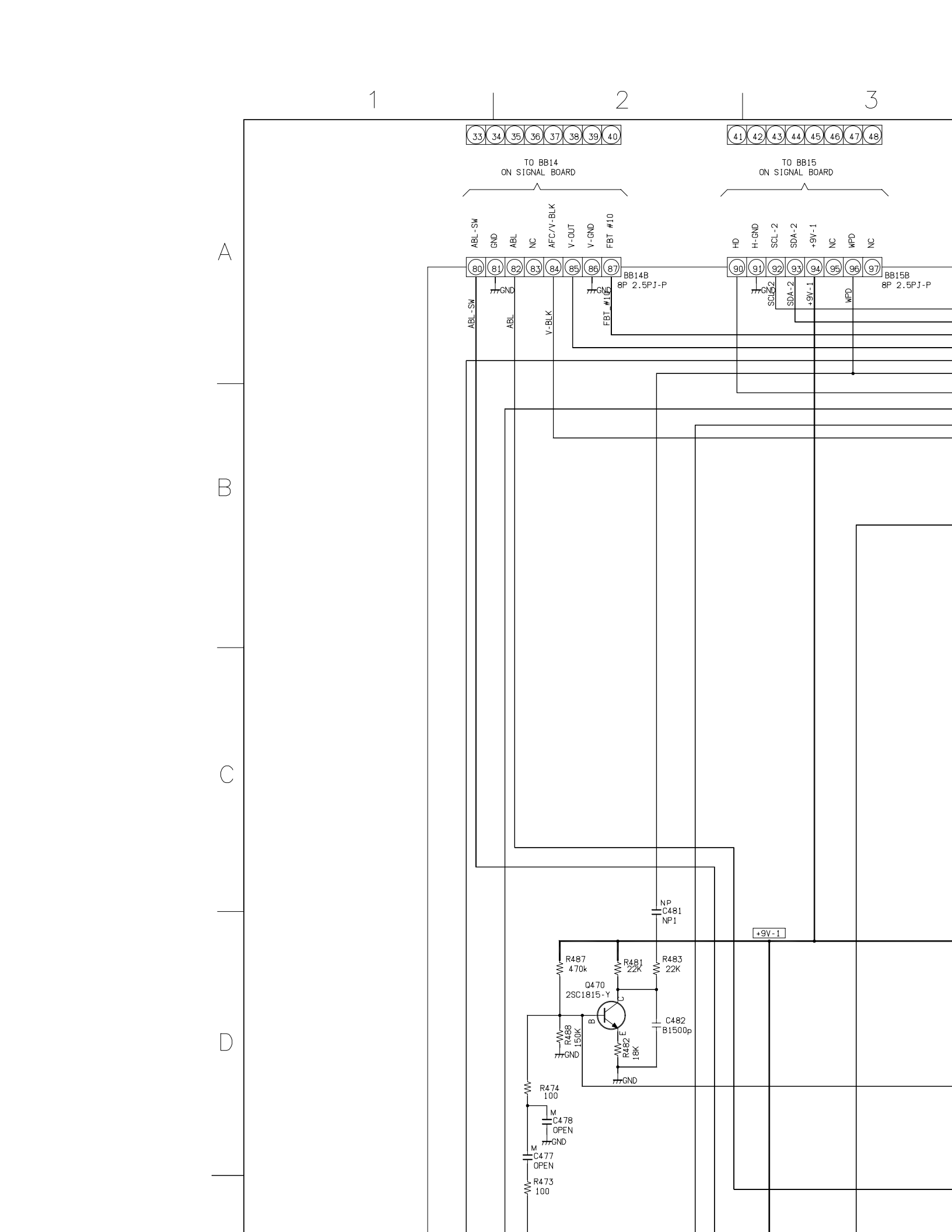
M400A

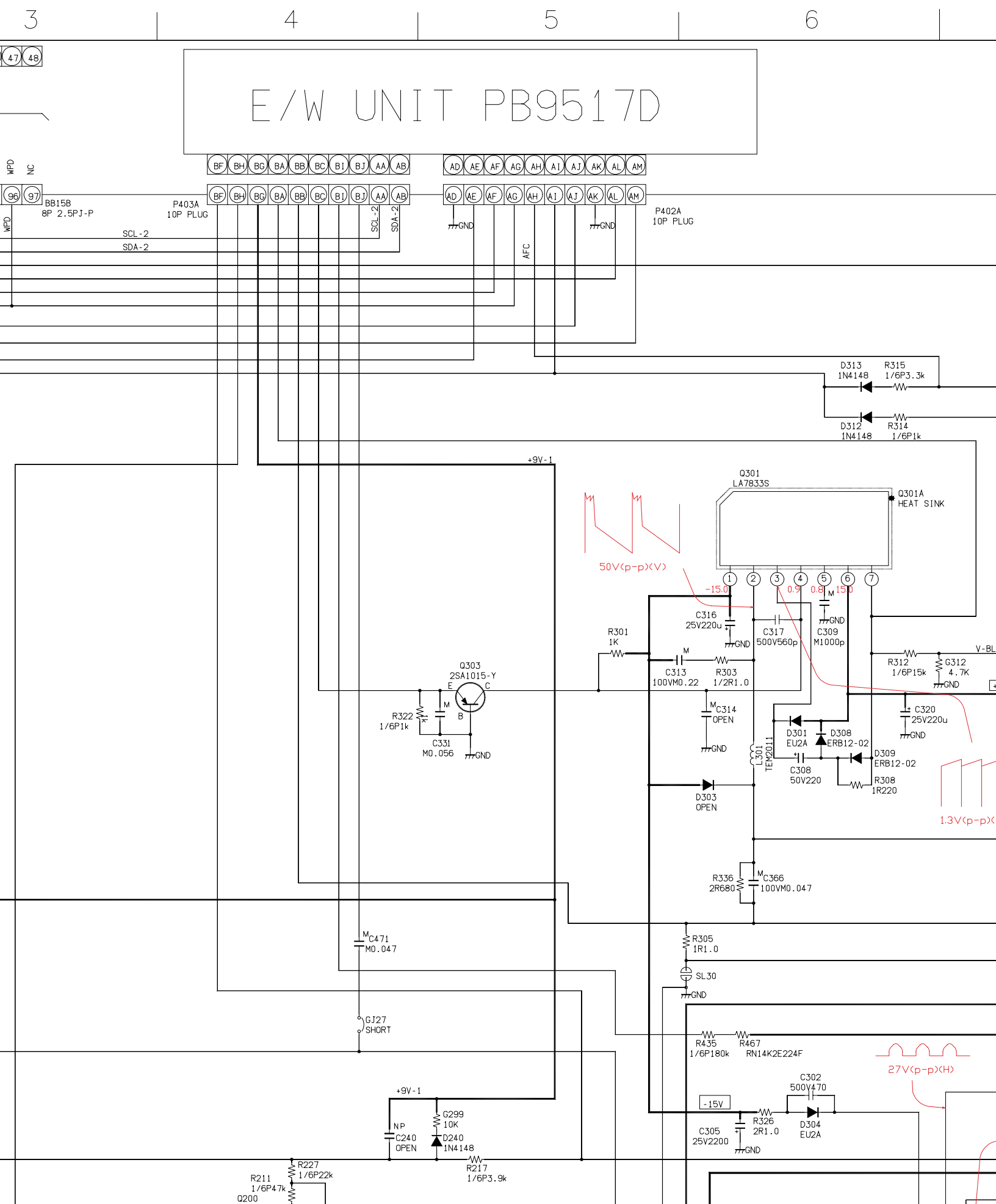
M400B

M603

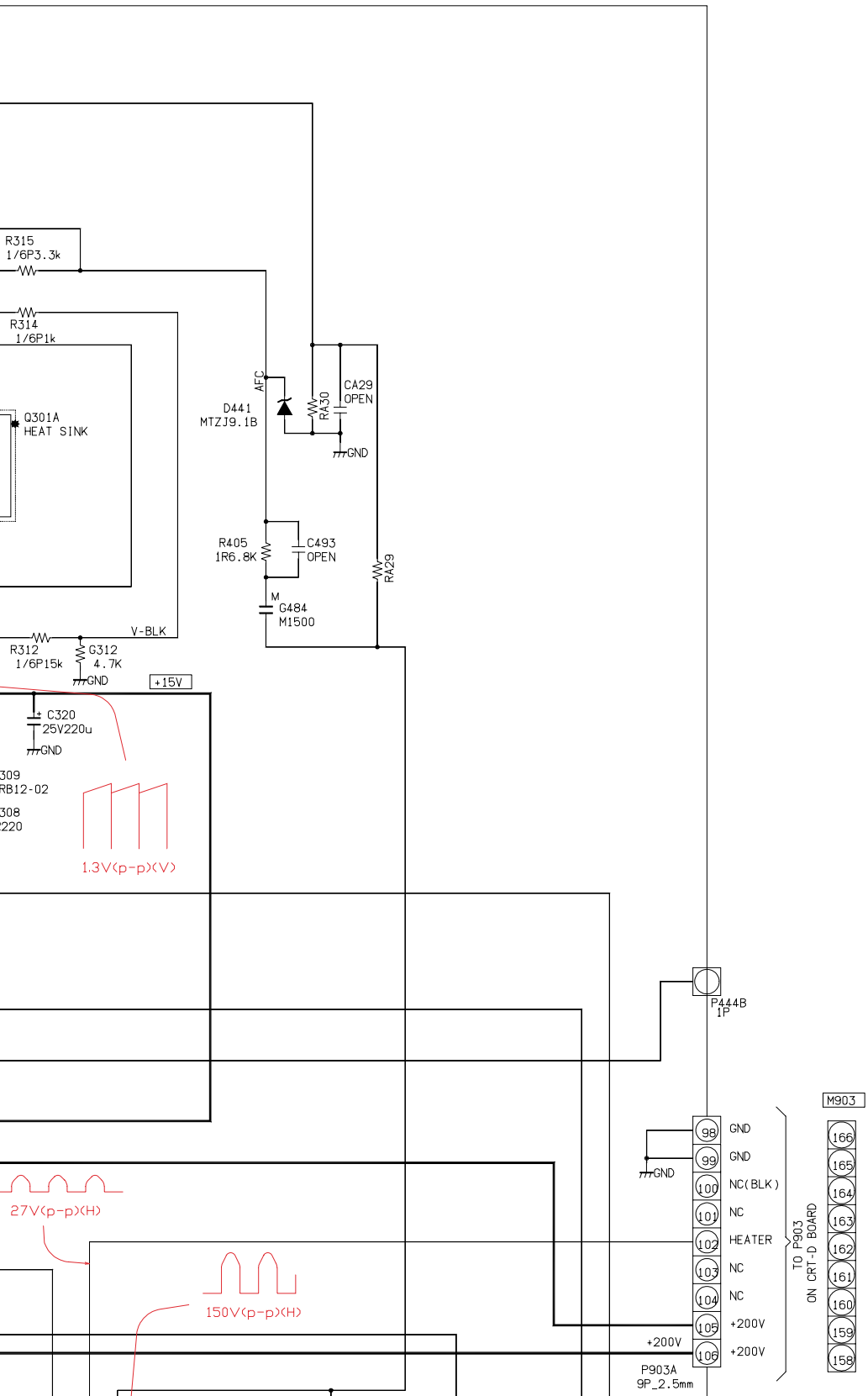
F801 T4A L/250V

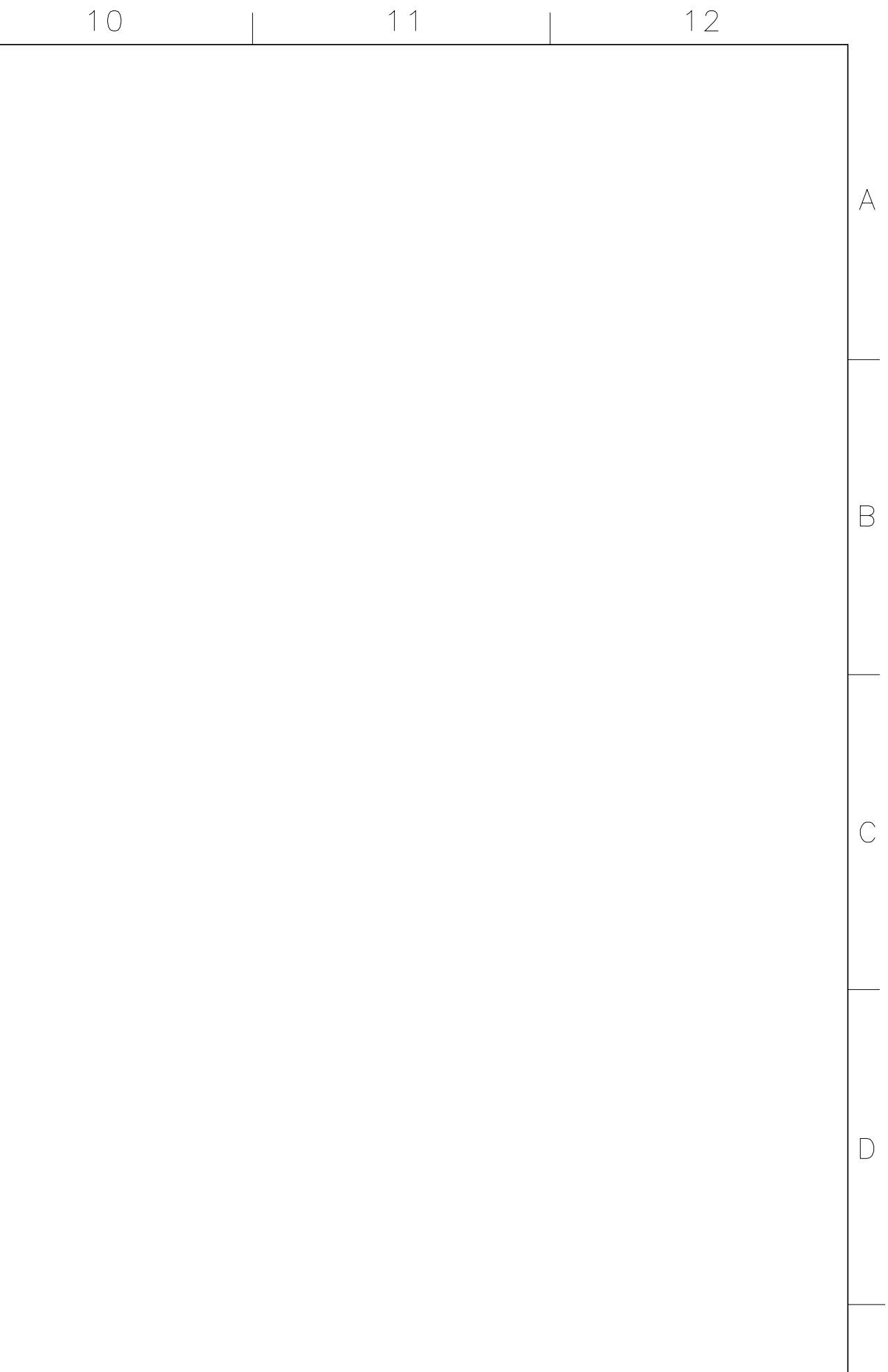
DEF
36ZP18P

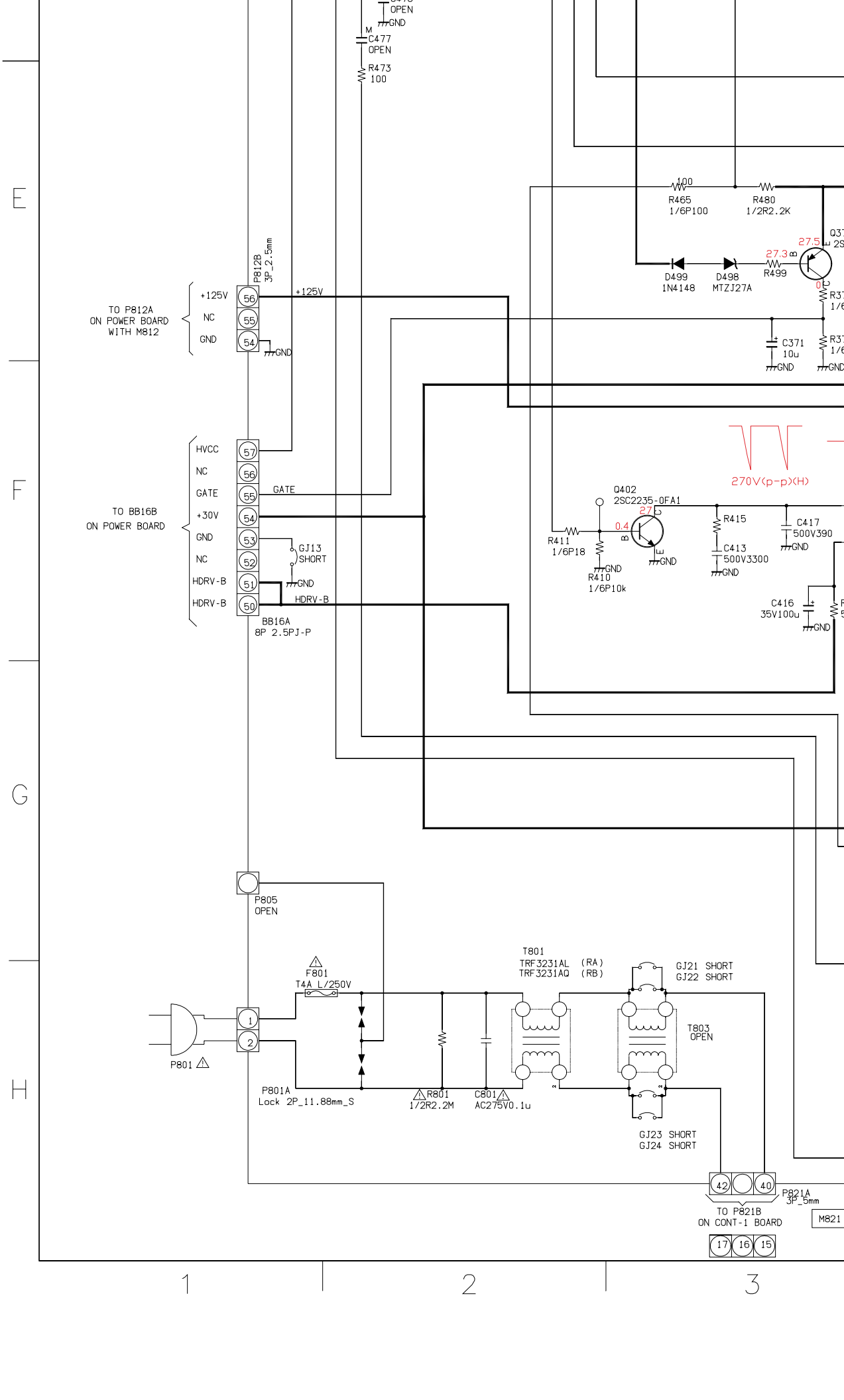

1
2
3
A
B
C
D
33 34 35 36 37 38 39 40
41 42 43 44 45 46 47 48
TO BB14
ON SIGNAL BOARD
TO BB15
ON SIGNAL BOARD
ABL-SW
GND
ABL
NC
AFC/V-BLK
V-OUT
V-GND
FBT #10
HD
H-GND
SCL-2
SDA-2
+9V-1
NC
WPD
NC
80 81 82 83 84 85 86 87
BB14B
8P 2.5PJ-P
90 91 92 93 94 95 96 97
BB15B
8P 2.5PJ-P
GND
GND
ABL-SW
ABL
V-BLK
FBT #10
SCL-2
SDA-2
+9V-1
WPD
NP
C481
NP1
+9V-1
R487
470k
R481
22K
R483
22K
Q470
2SC1815-Y
C
B
E
C482
B1500p
R488
150K
R482
18K
GND
GND
R474
100
M
C478
OPEN
GND
M
C477
OPEN
R473
100

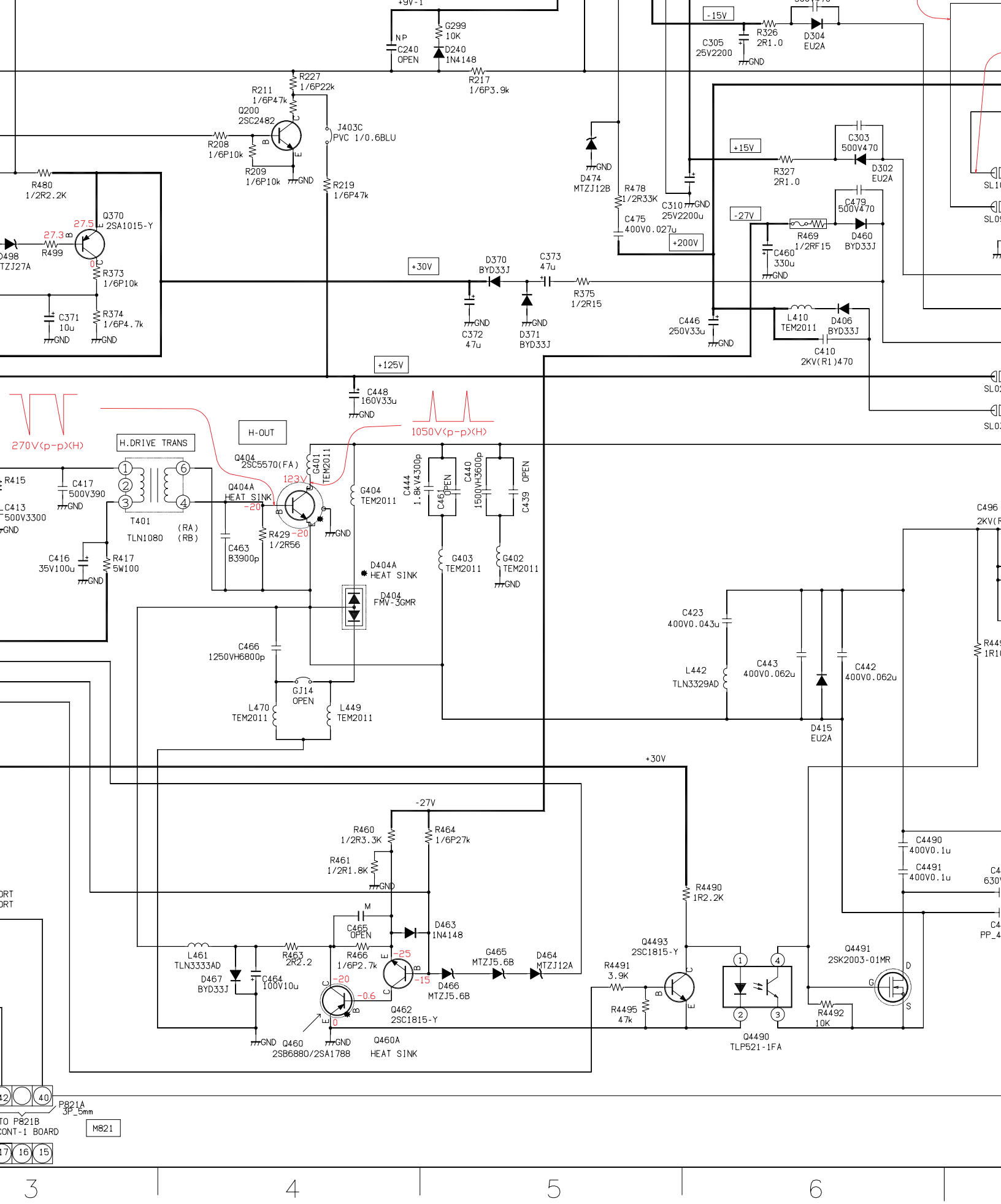

3
4
5
6
E/W UNIT PB9517D
47
48
WPD
NC
96
97
BB15B
8P 2.5PJ-P
P403A
10P PLUG
P402A
10P PLUG
BF BH BG BA BB BC BI BJ AA AB
AD AE AF AG AH AI AJ AK AL AM
SCL-2
SDA-2
GND
AFC
D313
1N4148
R315
1/6P3.3k
D312
1N4148
R314
1/6P1k
+9V-1
Q301
LA7833S
Q301A
HEAT SINK
50V(p-p)(V)
1 2 3 4 5 6 7
-15.0
0.9
0.8
15.0
C316
25V220u
C317
500V560p
C309
M1000p
R301
1K
C313
100VM0.22
R303
1/2R1.0
R312
1/6P15k
G312
4.7K
V-BL
Q303
2SA1015-Y
E
C
B
R322
1/6P1k
C331
M0.056
C314
OPEN
C320
25V220u
D301
EU2A
D308
ERB12-02
D309
ERB12-02
L301
TEM2011
C308
50V220
R308
1R220
D303
OPEN
1.3V(p-p)(
R336
2R680
C366
100VM0.047
C471
M0.047
R305
1R1.0
SL30
GJ27
SHORT
R435
1/6P180k
R467
RN14K2E224F
27V(p-p)(H)
C302
500V470
-15V
C305
25V2200
R326
2R1.0
D304
EU2A
+9V-1
NP
C240
OPEN
G299
10K
D240
1N4148
R217
1/6P3.9k
R227
1/6P22k
R211
1/6P47k
Q200

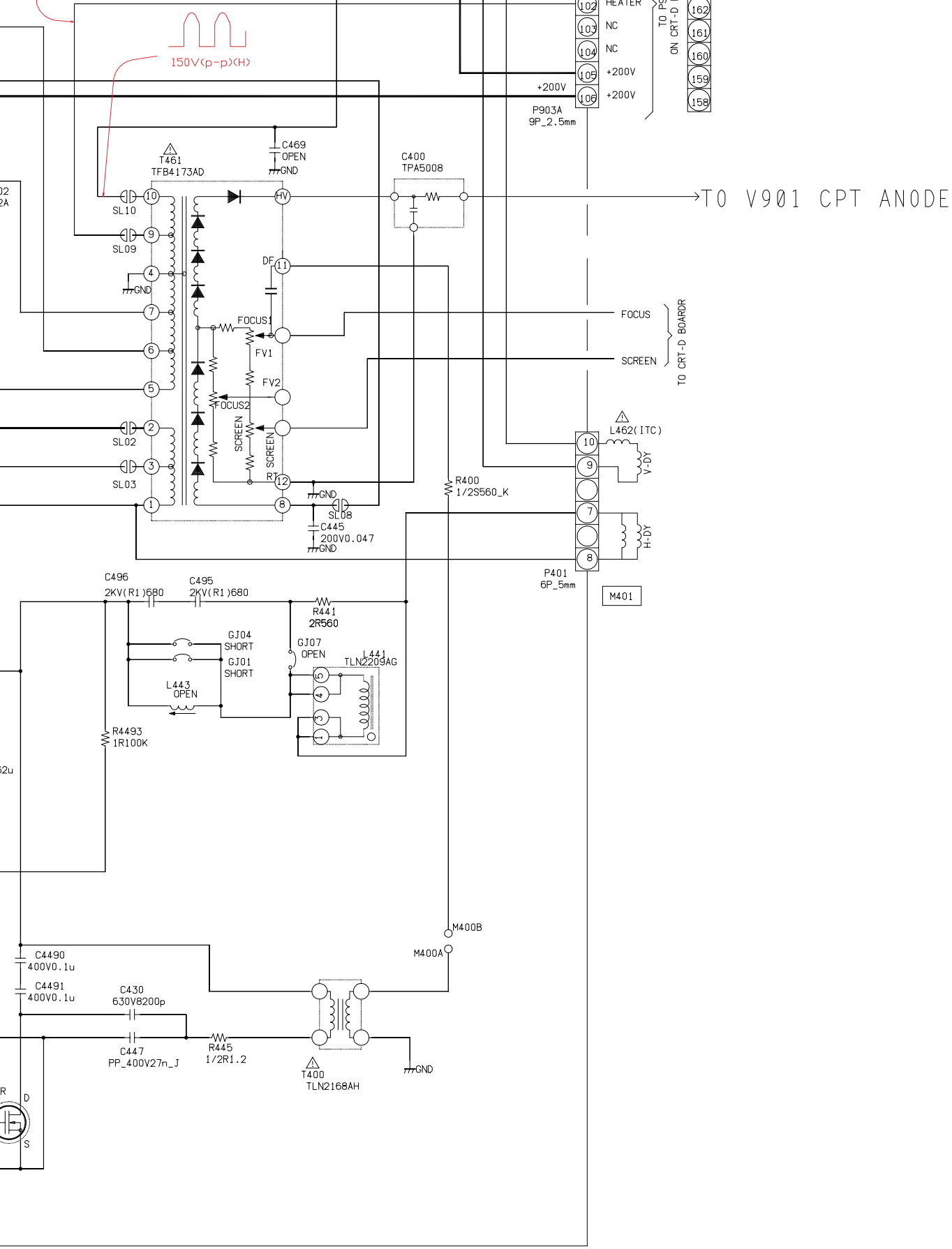
U904 DEF PB9951




10
11
12
A
B
C
D


C477
OPEN
GND
R473
100
R465
1/6P100
100
R480
1/2R2.2K
D499
1N4148
D498
MTZJ27A
R499
27.5
27.3
C371
10u
GND
TO P812A
ON POWER BOARD
WITH M812
P812B
3P_2.5mm
+125V
NC
GND
56
55
54
+125V
GND
270V(p-p)(H)
Q402
2SC2235-OFA1
27
0.4
R411
1/6P18
R410
1/6P10k
R415
C413
500V3300
C417
500V390
C416
35V100u
TO BB16B
ON POWER BOARD
HVCC
NC
GATE
+30V
GND
NC
HDRV-B
HDRV-B
57
56
55
54
53
52
51
50
GATE
GJ13
SHORT
HDRV-B
BB16A
8P 2.5PJ-P
P805
OPEN
F801
T4A L/250V
P801
P801A
Lock 2P_11.88mm_S
R801
1/2R2.2M
C801
AC275V0.1u
T801
TRF3231AL (RA)
TRF3231AQ (RB)
GJ21 SHORT
GJ22 SHORT
T803
OPEN
GJ23 SHORT
GJ24 SHORT
42
40
P821A
3P_5mm
TO P821B
ON CONT-1 BOARD
M821
17
16
15
E
F
G
H
1
2
3


+9V-1
NP
C240
OPEN
G299
10K
D240
1N4148
R217
1/6P3.9k
-15V
C305
25V2200
R326
2R1.0
D304
EU2A
GND
R227
1/6P22k
R211
1/6P47k
Q200
2SC2482
R208
1/6P10k
R209
1/6P10k
J403C
PVC 1/0.6BLU
R219
1/6P47k
D474
MTZJ12B
R478
1/2R33K
C475
400V0.027u
C310
25V2200u
+15V
R327
2R1.0
C303
500V470
D302
EU2A
-27V
R469
1/2RF15
C479
500V470
D460
BYD33J
C460
330u
+200V
R480
1/2R2.2K
Q370
2SA1015-Y
27.5
27.3
R499
R373
1/6P10k
C371
10u
R374
1/6P4.7k
+30V
D370
BYD33J
C373
47u
R375
1/2R15
C372
47u
D371
BYD33J
C446
250V33u
L410
TEM2011
D406
BYD33J
C410
2KV(R1)470
+125V
C448
160V33u
270V(p-p)(H)
H.DRIVE TRANS
H-OUT
1050V(p-p)(H)
Q404
2SC5570(FA)
123V
Q404A
HEAT SINK
-20
G401
TEM2011
G404
TEM2011
C444
1.8kV4300p
C461
OPEN
C440
1500VH3600p
C439
OPEN
R415
C417
500V390
C413
500V3300
T401
TLN1080
(RA)
(RB)
C463
B3900p
R429
1/2R56
G403
TEM2011
G402
TEM2011
C416
35V100u
R417
5W100
D404A
HEAT SINK
D404
FMV-3GMR
C466
1250VH6800p
GJ14
OPEN
L470
TEM2011
L449
TEM2011
C423
400V0.043u
L442
TLN3329AD
C443
400V0.062u
C442
400V0.062u
D415
EU2A
C496
2KV(R
+30V
-27V
R460
1/2R3.3K
R464
1/6P27k
R461
1/2R1.8K
M
C465
OPEN
D463
1N4148
L461
TLN3333AD
R463
2R2.2
R466
1/6P2.7k
-25
-15
G465
MTZJ5.6B
D464
MTZJ12A
D467
BYD33J
C464
100V10u
-20
-0.6
D466
MTZJ5.6B
Q462
2SC1815-Y
Q460
2SB6880/2SA1788
Q460A
HEAT SINK
R4490
1R2.2K
Q4493
2SC1815-Y
R4491
3.9K
R4495
47k
Q4490
TLP521-1FA
Q4491
2SK2003-01MR
R4492
10K
C4490
400V0.1u
C4491
400V0.1u
42
40
P821A
3P_5mm
TO P821B
CONT-1 BOARD
M821
17
16
15
3
4
5
6


150V(p-p)(H)
HEATER
NC
NC
+200V
+200V
+200V
P903A
9P_2.5mm
TO PCB ON CRT-D BOARDR
C469
OPEN
GND
T461
TFB4173AD
C400
TPA5008
TO V901 CPT ANODE
SL10
SL09
GND
DF
FOCUS1
FV1
FV2
FOCUS2
SCREEN
SCREEN
RT
SL02
SL03
GND
SL08
C445
200V0.047
GND
FOCUS
SCREEN
TO CRT-D BOARDR
L462(ITC)
V-DY
H-DY
R400
1/2S560_K
P401
6P_5mm
M401
C496
2KV(R1)680
C495
2KV(R1)680
R441
2R560
GJ04
SHORT
GJ01
SHORT
GJ07
OPEN
L441
TLN2209AG
L443
OPEN
R4493
1R100K
M400B
M400A
C4490
400V0.1u
C4491
400V0.1u
C430
630V8200p
C447
PP_400V27n_J
R445
1/2R1.2
T400
TLN2168AH
GND
D
S


E
F
G
H
DEF
36ZP18P
10
11
12

SPECIFICATIONS (Representative: 36ZP18P)

Input Power Rating: AC 220 ~ 240 Volts, 50 Hz

Aerial Input Impedance: 75 ohm unbalanced type for VHF, UHF and CATV

Receiving Channels:

System	Channel	VHF	UHF	CATV	
PAL B/G	CCIR	2 ~ 12	21 ~ 69	S1 ~ S41	X ~ Z + 2,
SECAM B/G	CCIR	2 ~ 12	21 ~ 69	S1 ~ S41	X ~ Z +2,
PAL D/K	CHINA	1 ~ 12	13 ~ 57	Z-1 ~ Z-35	
PAL I	UK		21 ~ 69		
SECAM D/K	OIRT	1 ~ 12	21 ~ 69	X-1 ~ X-19	
SECAM L	FRANCE/CCIR	FB ~ F6	21 ~ 69	X ~ Z + 2	S1 ~ S41

PAL, SECAM 50 Hz/60 Hz (For Video Disk play back)
4.43 NTSC (For VCR playback), 3.58 NTSC (For VCR playback)

Intermediate Frequencies:
Picture I-F carrier frequency ..... 38.9 MHz (L VL)
Sound I-F carrier frequency
B/G System ..... 33.4 MHz
D/K System ..... 32.4 MHz

Picture Tube: 36 inches, 860 mm (measured on diagonal of viewable picture area)
103° deflection

Sound Output: 10 W + 10 W (at 10% Distortion, Main), 13 W (at 10% Distortion, Woofer)

Speakers: 60 mm × 120 mm oval, 2 pcs (Main)

Aux. Terminals: 21 pin socket (FULL), 21 pin socket (S-VIDEO/AV), MONITOR OUTPUT, STEREO HEADPHONE JACK (3.5mm).
DVD Terminal

Cabinet: Table type

Dimensions:
Height ..... 622 mm
Width ..... 855 mm
Depth ..... 594 mm

Mass: 74.6 kg

* Please refer to owner's manual in detail.

TOSHIBA CORPORATION
1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN