


SCHEMATIC DIAGRAM


MODEL : 21CSZ5TR/21SZ5TM/21SZ5VX



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 composition of 1/2 watt
 1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
 K = $\pm 10\%$ G = $\pm 2\%$ F = $\pm 1\%$
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.

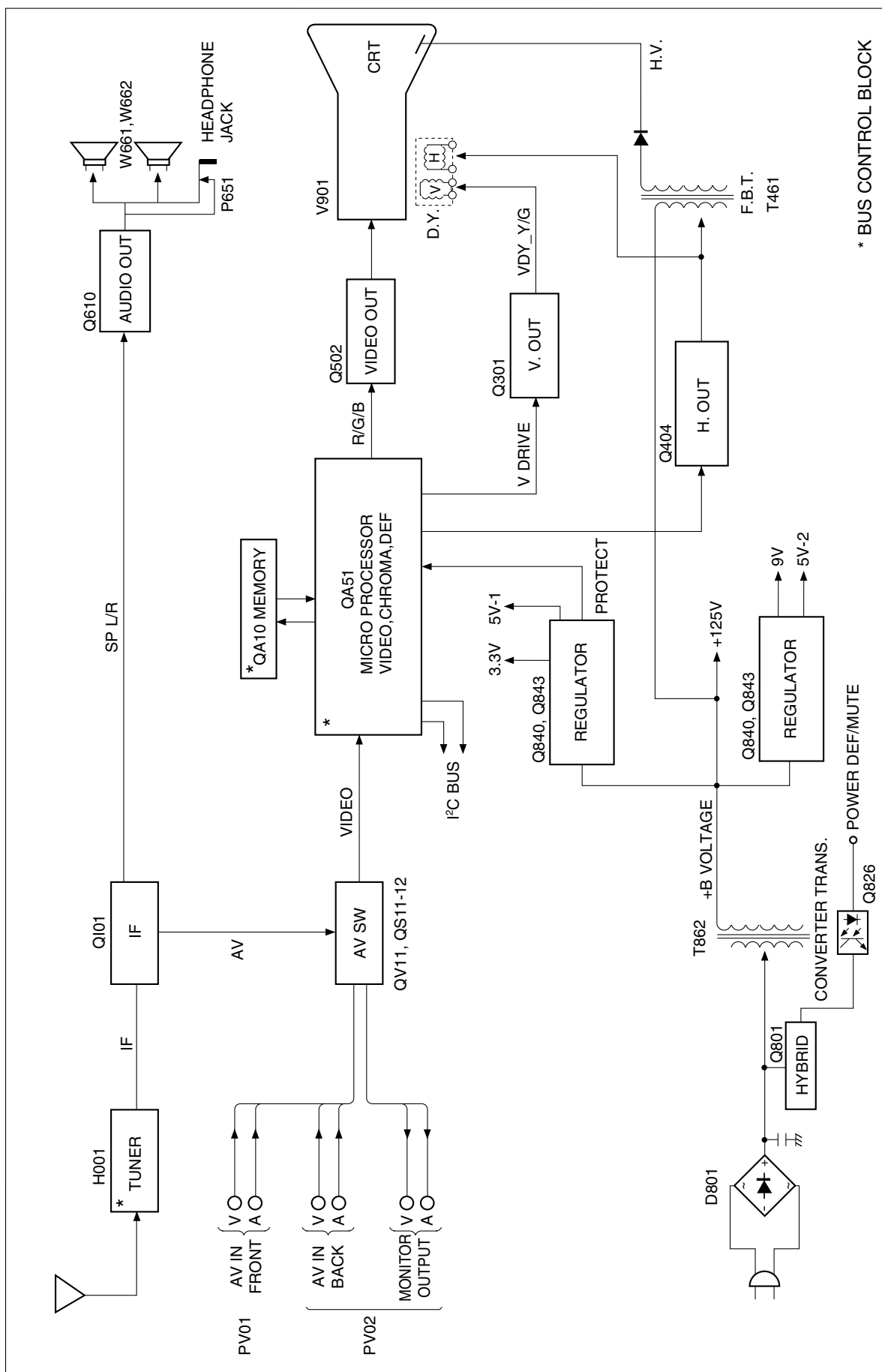
 Electrolytic capacitor

 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 chassis ground, using a color bar signal with all controls at normal, line voltage at 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary $\pm 20\%$ except H.V.

■ SCHEMATIC DIAGRAM STRUCTURE:

MAIN Circuit	TUNER	[SHEET- 1/9]	1/12
	AV SW	[SHEET- 2/9]	2/12
	VERT	[SHEET- 3/9]	3/12
	HDEF	[SHEET- 4/9]	4/12
	VCD/MICON	[SHEET- 5/9]	5/12
	A-PRO/AUDIO-AMP	[SHEET- 6/9]	6/12
	PROTECTOR	[SHEET- 7/9]	7/12
	POWER	[SHEET- 8/9]	8/12
	LOW B REG	[SHEET- 9/9]	9/12
CRT DRIVE Circuit			10/12
FRONT AV Circuit			11/12
IF Circuit			12/12

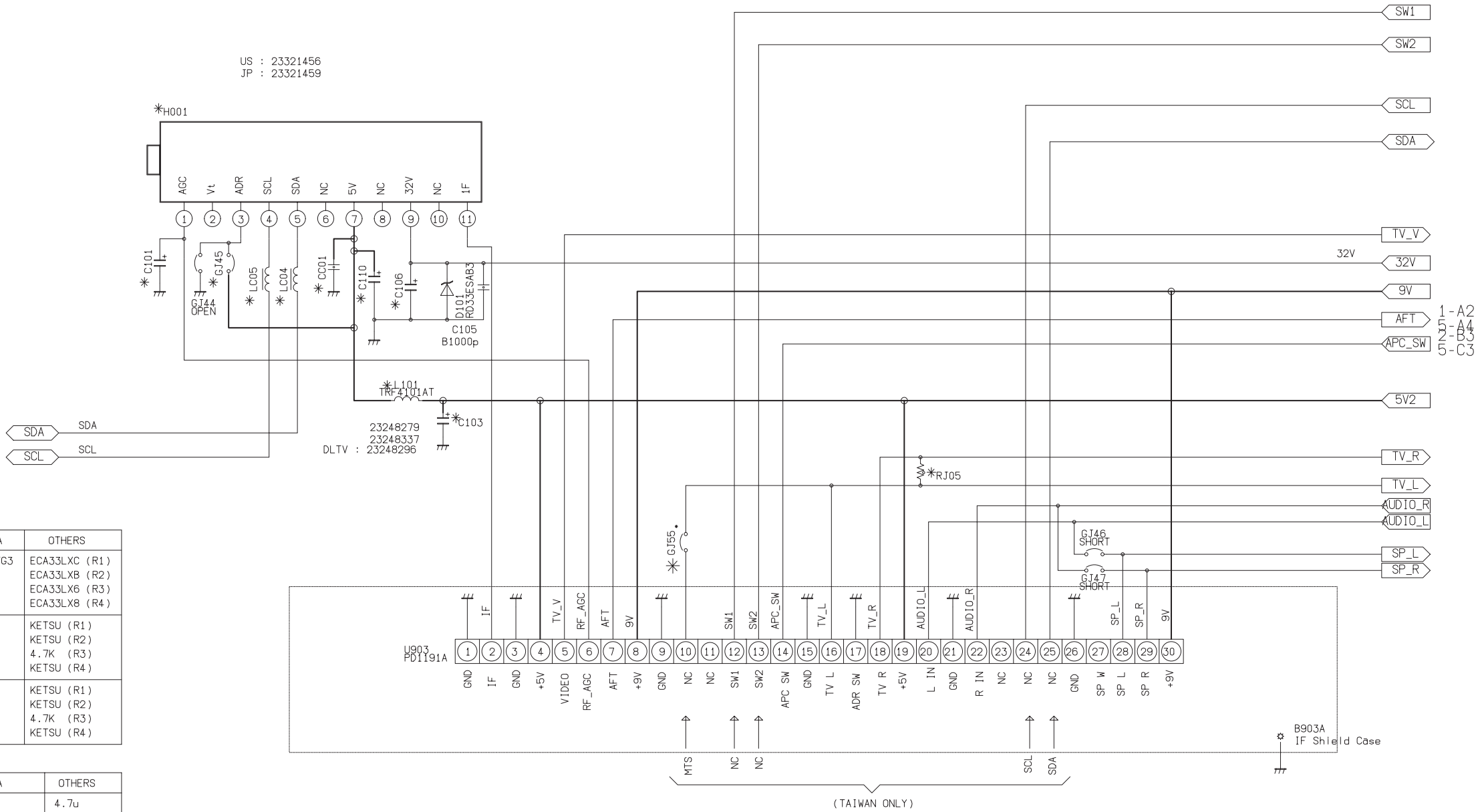
CIRCUIT BLOCK DIAGRAM



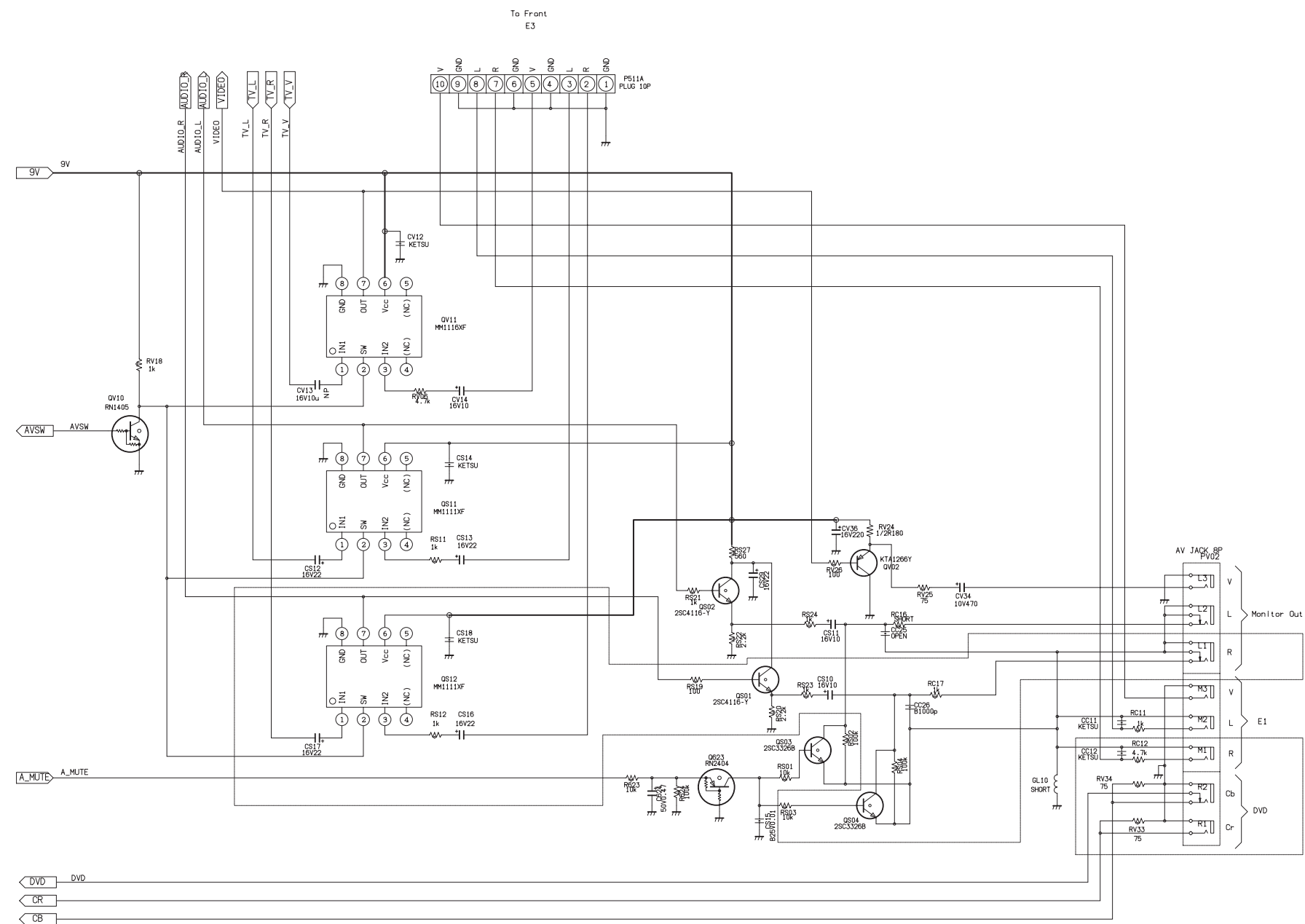
* BUS CONTROL BLOCK

LOC	RUSSIA	OTHERS
H001	ENV59DA7G3	ECA33LXC (R1) ECA33LXB (R2) ECA33LX6 (R3) ECA33LX8 (R4)
GJ44	KETSU	KETSU (R1) KETSU (R2) 4.7K (R3) KETSU (R4)
GJ45	KETSU	KETSU (R1) KETSU (R2) 4.7K (R3) KETSU (R4)

LOC	RUSSIA	OTHERS
C101	4.7u	4.7u
LC04	TEM2014AA(RA) TEM2014 (RB)	SHORT
LC05	TEM2014AA(RA) TEM2014 (RB)	SHORT
CC01	25V0.01	25V0.01
C110	50V220	50V220
C106	50V10	50V10
L101	TLN3278GH	TLN3278GH
C103	50V220	50V220
RJ05	KETSU	KETSU
GJ55	KETSU	KETSU



21CSZ5TR/21SZ5TM/21SZ5VX
MAIN (TUNER)
SHEET-1/9



21CSZ5TR/21SZ5TM/21SZ5VX
MAIN (AV SW)
SHEET-2/9

1

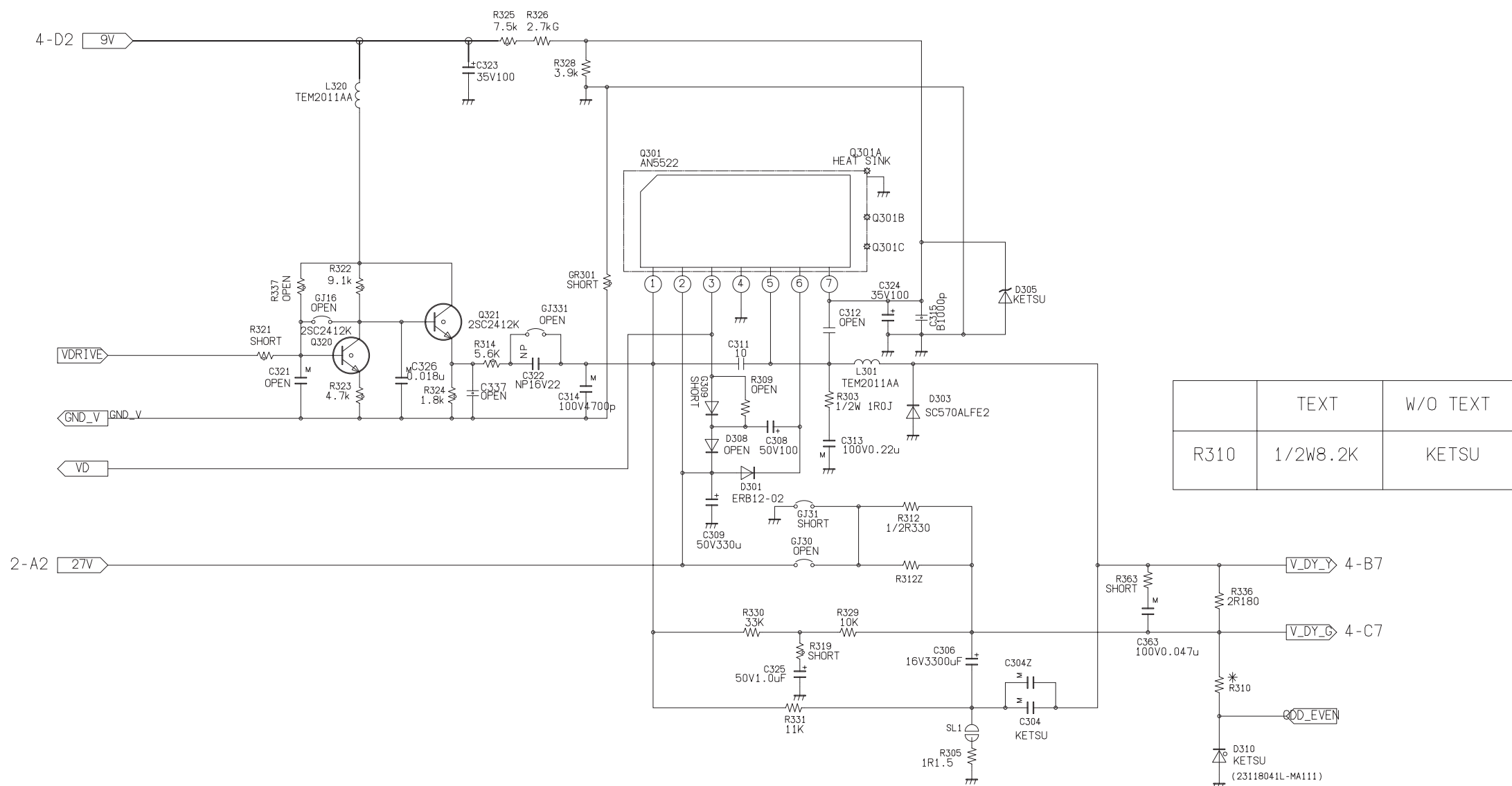
2

A

A

B

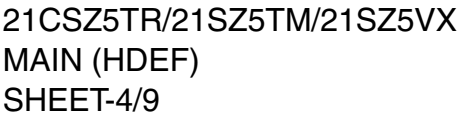
B



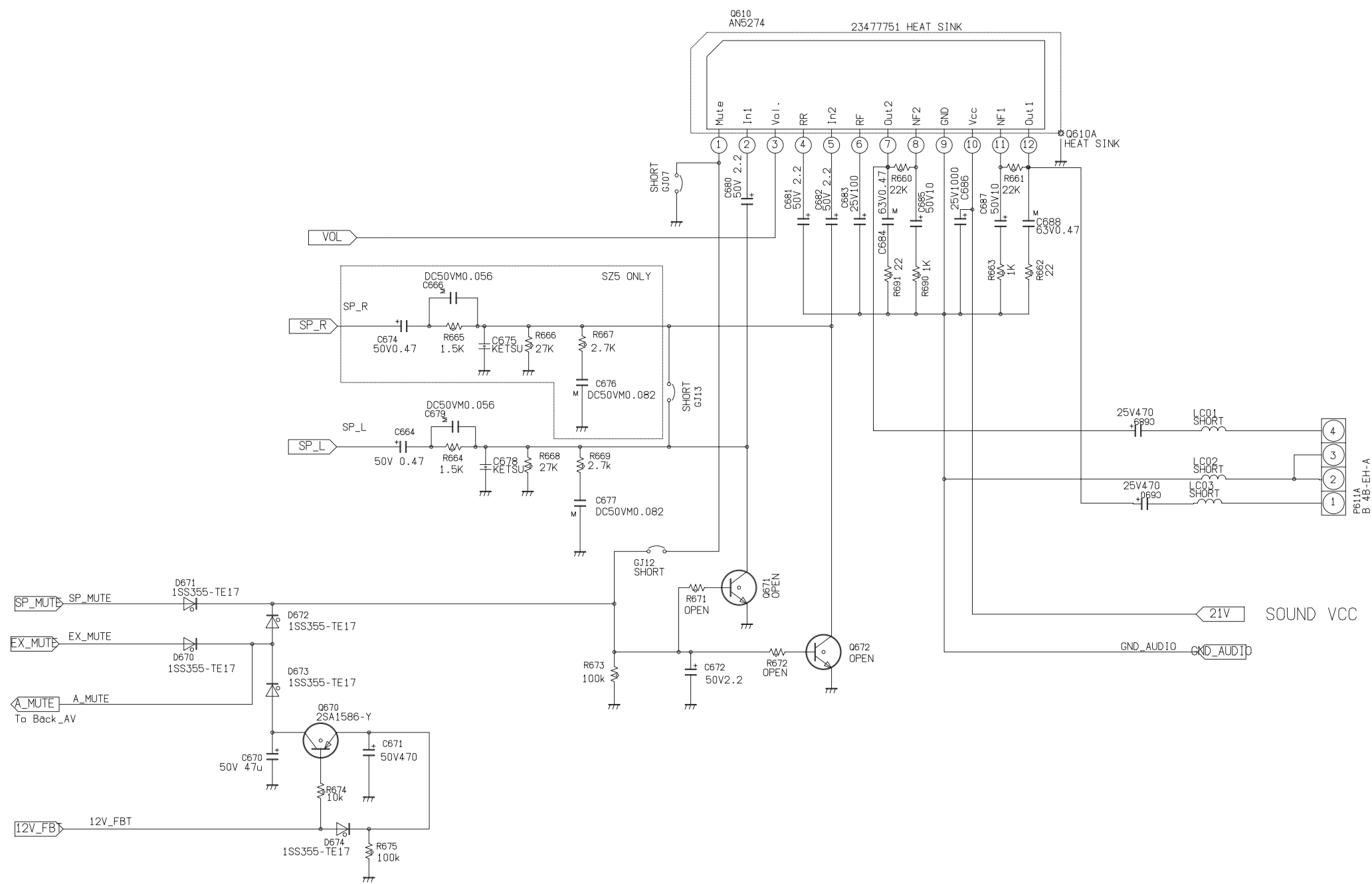
21CSZ5TR/21SZ5TM/21SZ5VX
MAIN (VERT)
SHEET-3/9

1

2







21CSZ5TR/21SZ5TM/21SZ5VX
MAIN (A-PRO/AUDIO-AMP)
SHEET-6/9

1

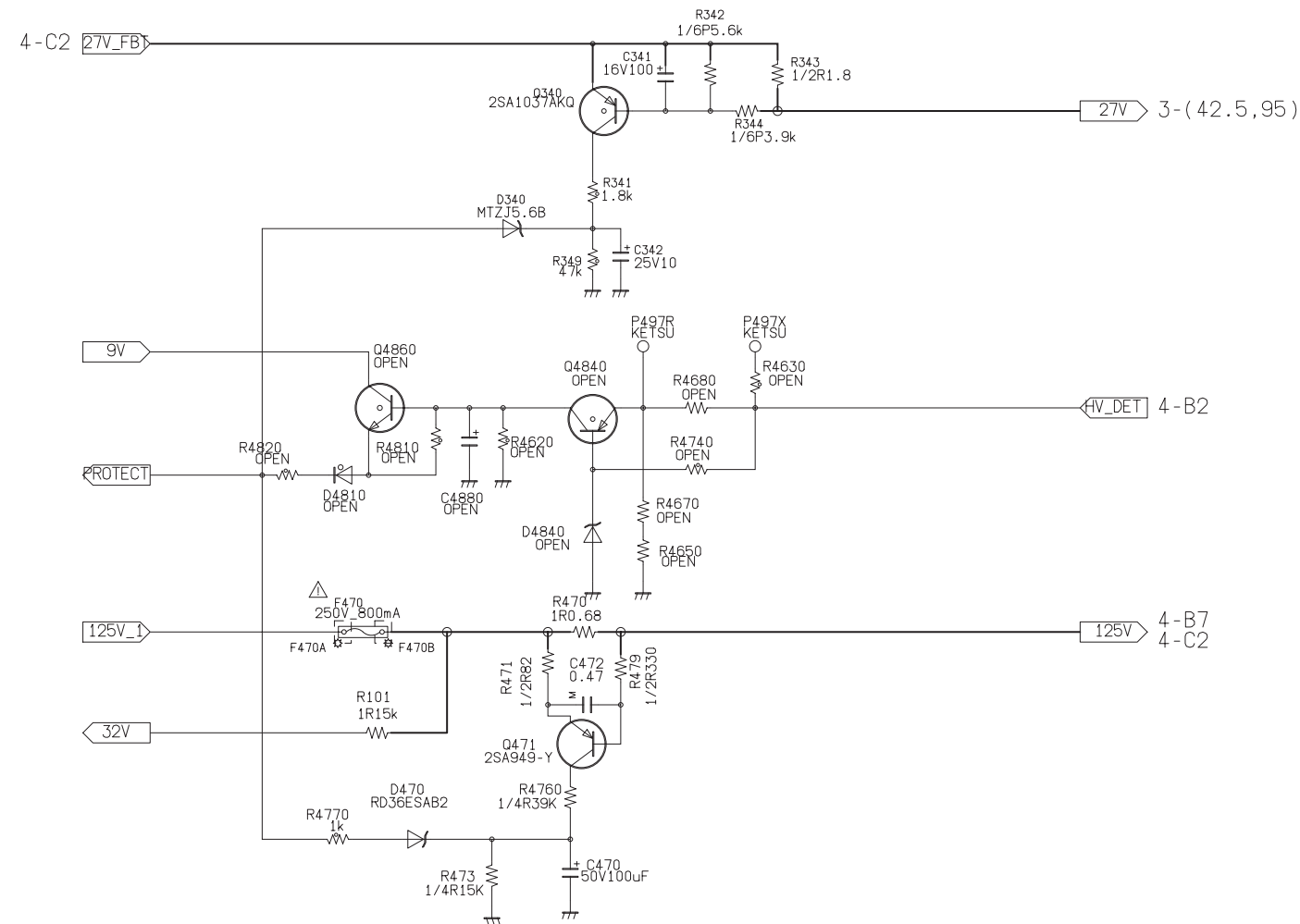
2

A

A

B

B

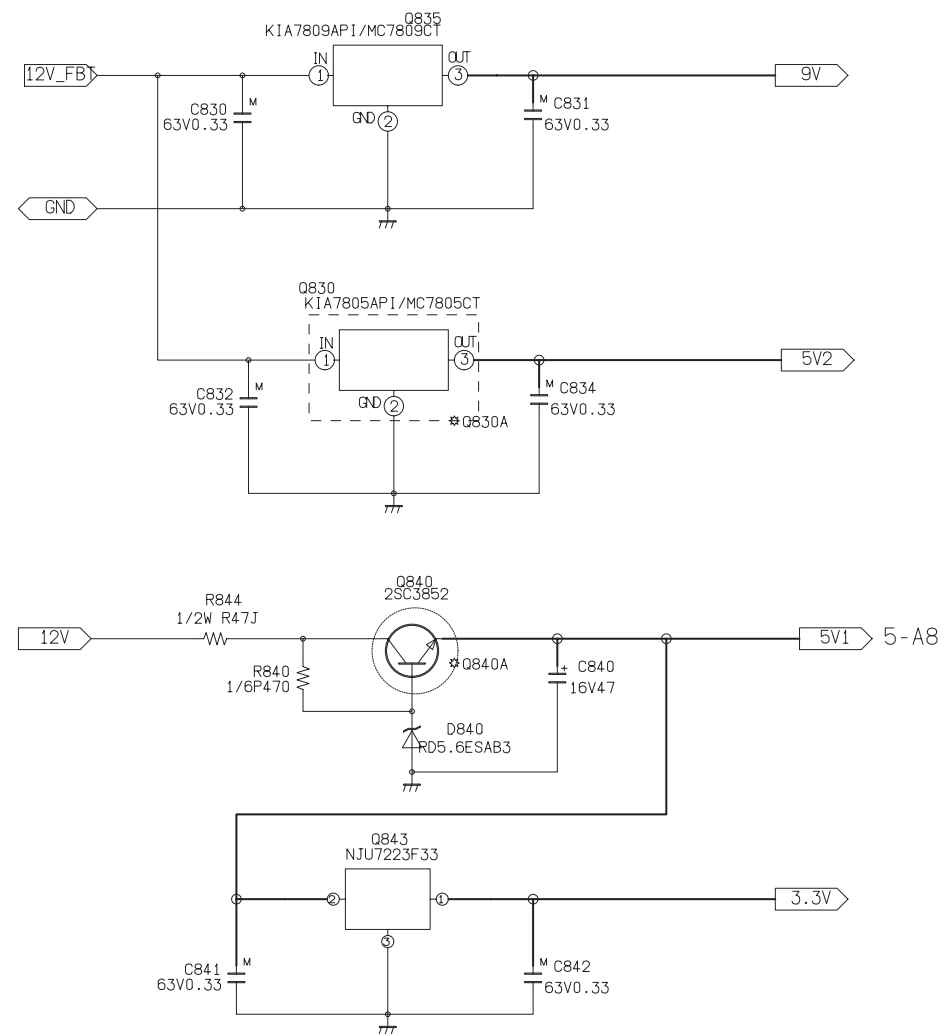


21CSZ5TR/21SZ5TM/21SZ5VX
MAIN (PROTECTOR)
SHEET-7/9

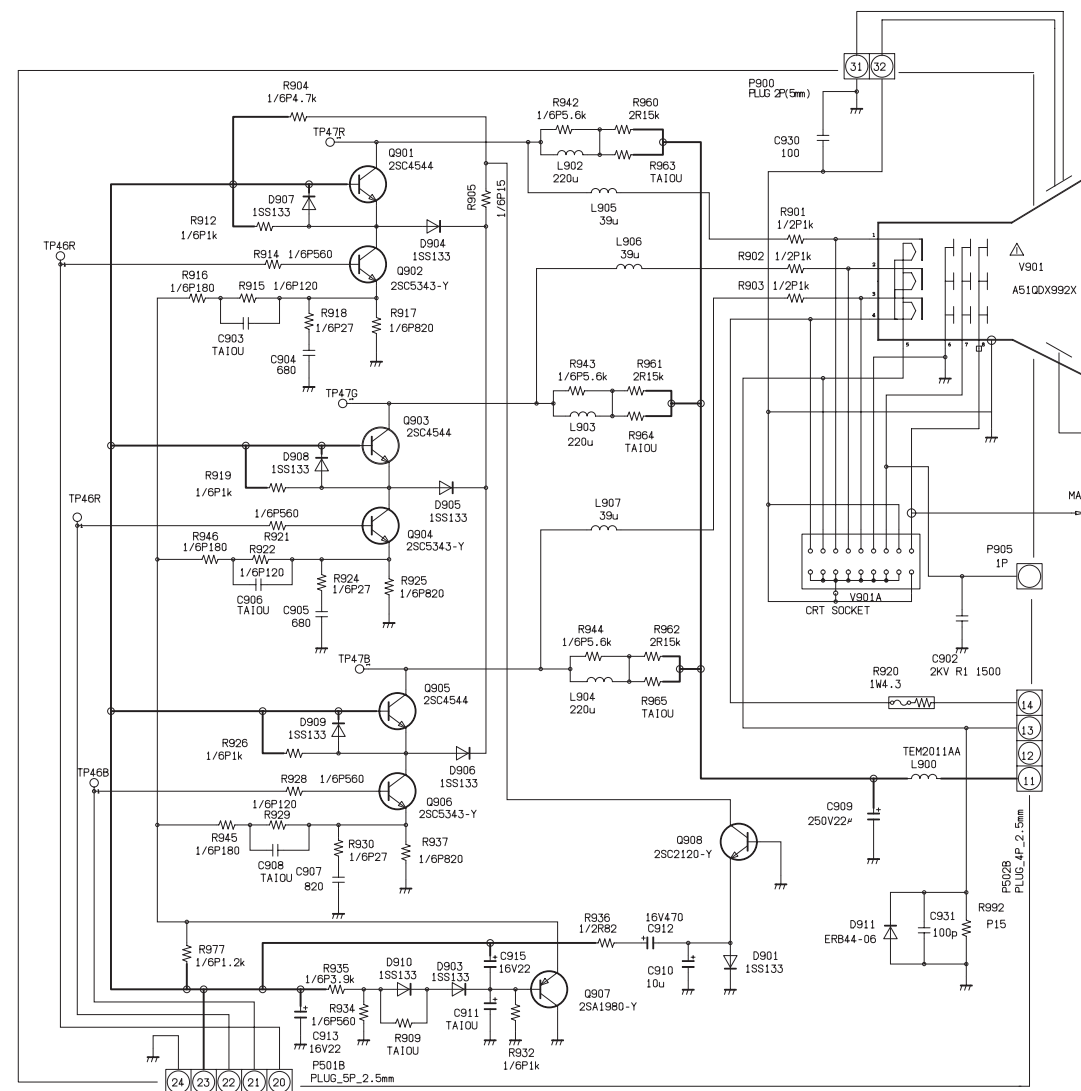
1

2





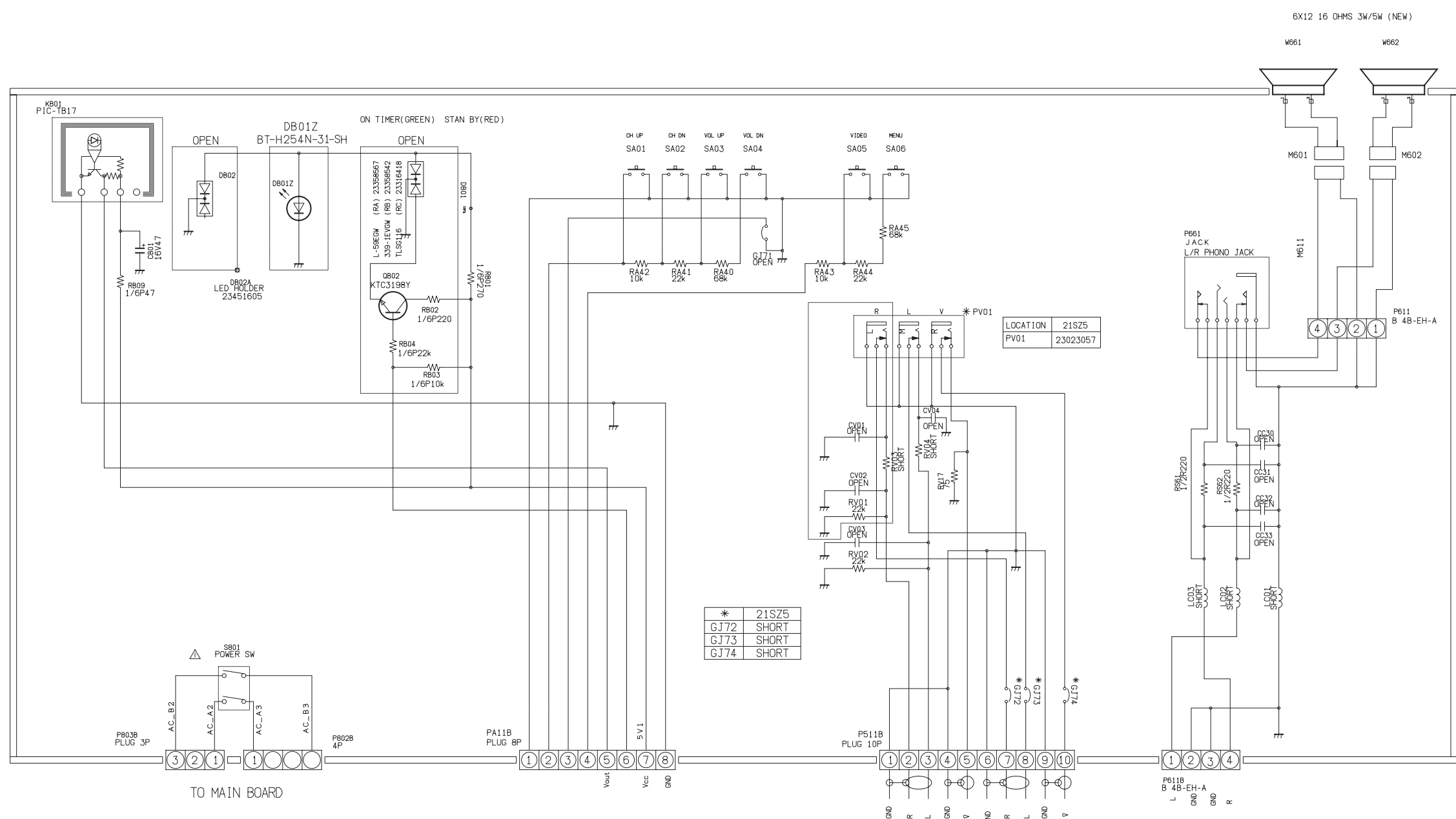
21CSZ5TR/21SZ5TM/21SZ5VX
MAIN (LOW B REG)
SHEET-9/9



21CSZ5TR/21SZ5TM/21SZ5VX
CRT DRIVE

A

B



A

B

21CSZ5TR/21SZ5TM/21SZ5VX
FRONT AV

1

2

3

4

5

6

7

8

A

B

C

D

E

F

A

B

C

D

E

F

