



SCHEMATIC DIAGRAM

MODEL : 51H83 / 57H83 / 65H83

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 " \triangle " 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.

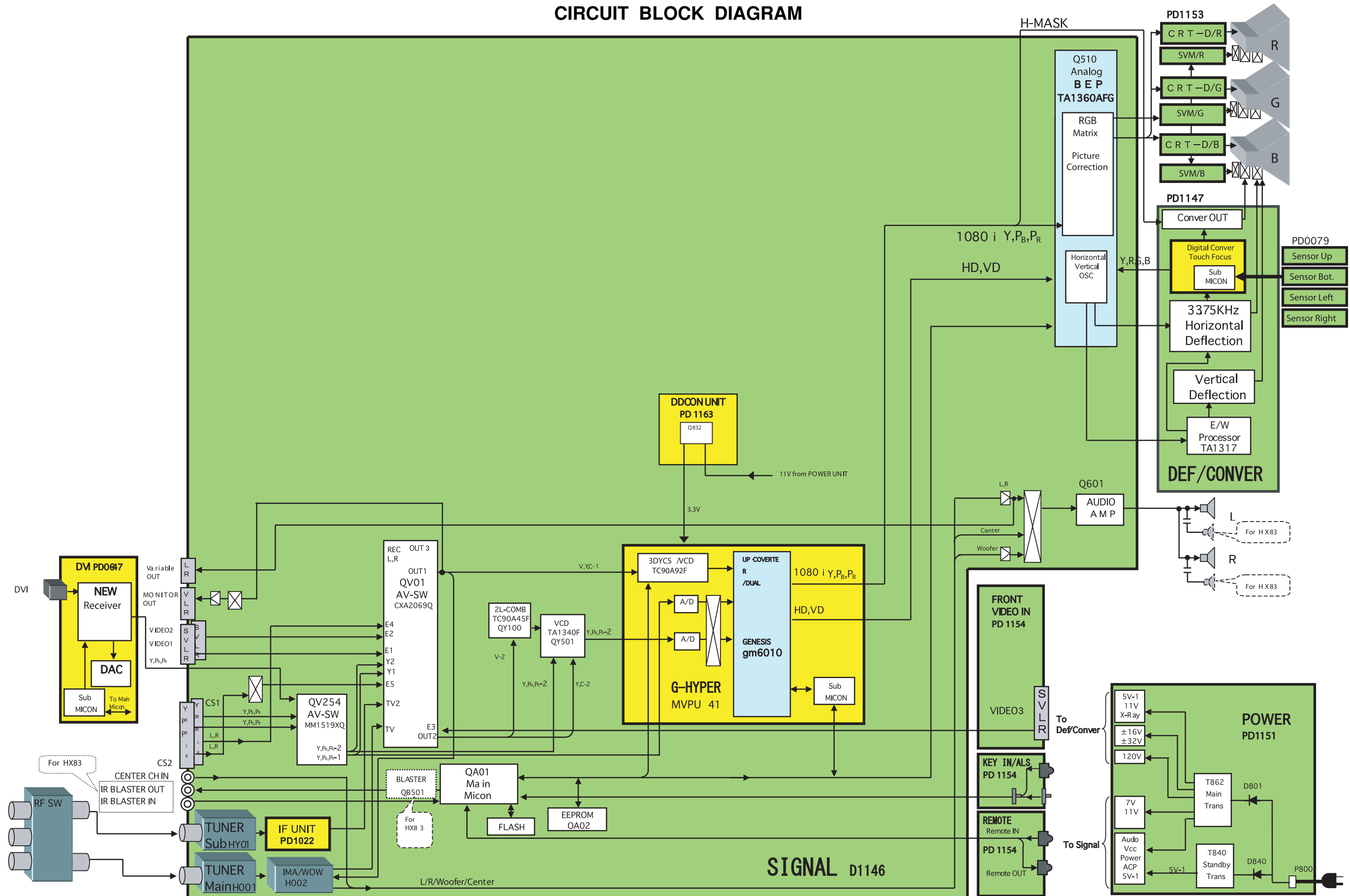
NOTE:

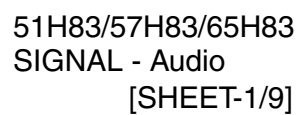
- RESISTOR** Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
 1/2R = Metal or Metal oxide of 1/2 watt 1/2S = Carbon composition of 1/2 watt
 1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
 K = $\pm 10\%$ G = $\pm 2\%$ F = $\pm 1\%$
- 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
- The parts indicated with " \triangle " have special characteristics, and should be replaced with identical parts only.
- Voltages read with DIGITAL MULTI-METER from point indicated to chassis ground, using a color bar signal with all controls at normal, line voltage 120 volts.
- Waveforms are taken receiving color bar signal with enough sensitivity.
- Voltage reading shown are nominal values and may vary $\pm 20\%$ except H.V.

SCHEMATIC DIAGRAM STRUCTURE:

SIGNAL Circuit	Audio	[SHEET - 1/9]	1/22
	AV-1	[SHEET - 2/9]	2/22
	Maicon	[SHEET - 3/9]	3/22
	REGULATOR	[SHEET - 4/9]	4/22
	Video	[SHEET - 5/9]	5/22
	AV-2	[SHEET - 6/9]	6/22
	AV-3	[SHEET - 7/9]	7/22
	IF	[SHEET - 8/9]	8/22
	SYNC OUT	[SHEET - 9/9]	9/22
POWER Circuit	(1/2)	[SHEET - 1/2]	10/22
	(2/2)	[SHEET - 2/2]	11/22
DEF / CONVER Circuit	Vertical	[SHEET - 1/3]	12/22
	DEF	[SHEET - 2/3]	13/22
	CONVER-OUT	[SHEET - 3/3]	14/22
CRT / SVM Circuit (51")			15/22
CRT / SVM Circuit (57"/65")	CRT-DRIVE	[SHEET - 1/2]	16/22
	SVM	[SHEET - 2/2]	17/22
DD-CON Circuit	(1/2)	[SHEET - 1/2]	18/22
	CONVER-OUT (2/2)	[SHEET - 2/2]	19/22
FRONT Circuit			20/22
T. FOCUS-SENSOR Circuit			21/22
IF Circuit			22/22

CIRCUIT BLOCK DIAGRAM





A

B

C

D

E

F

A

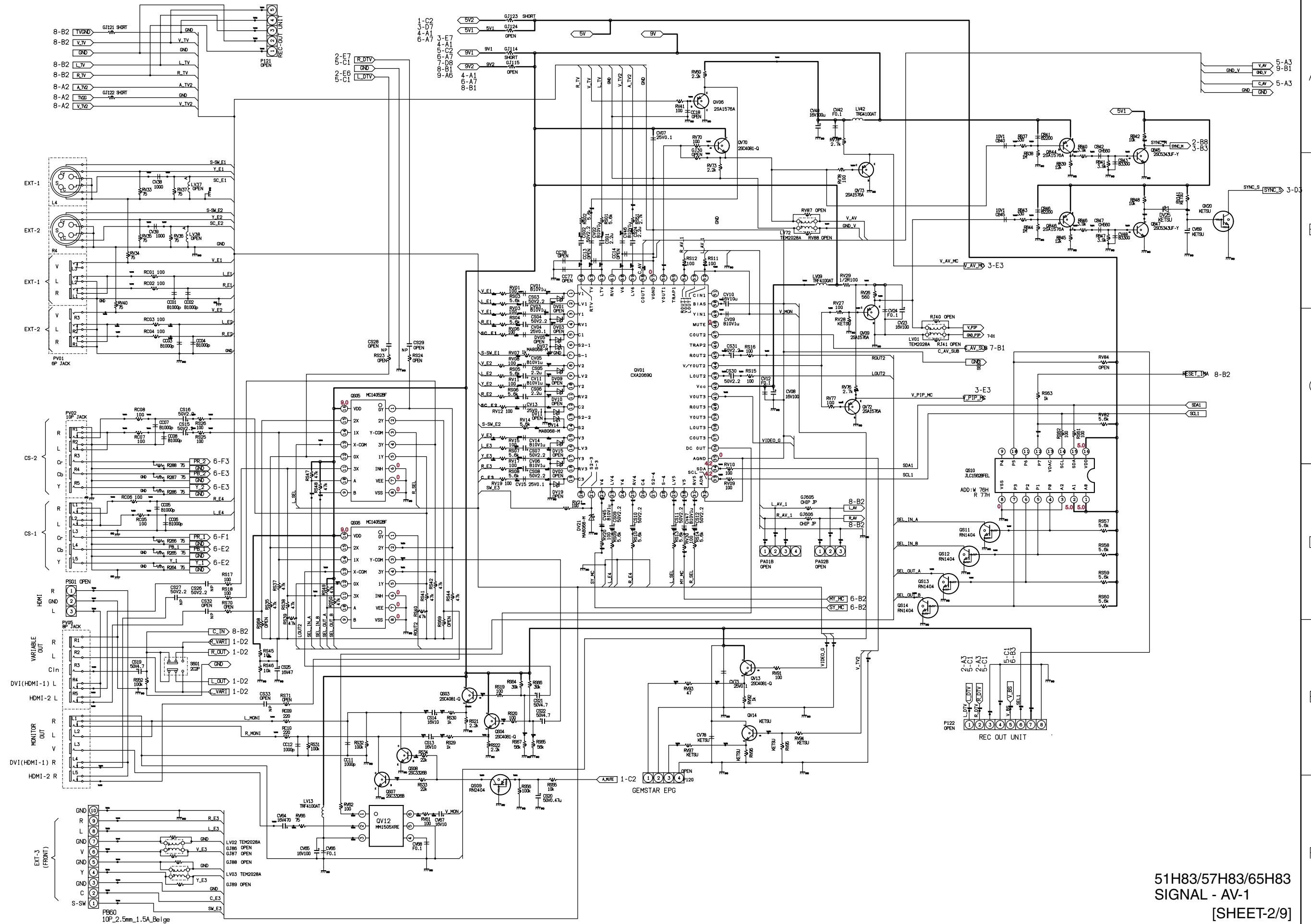
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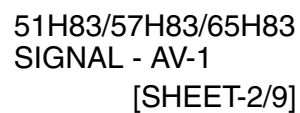
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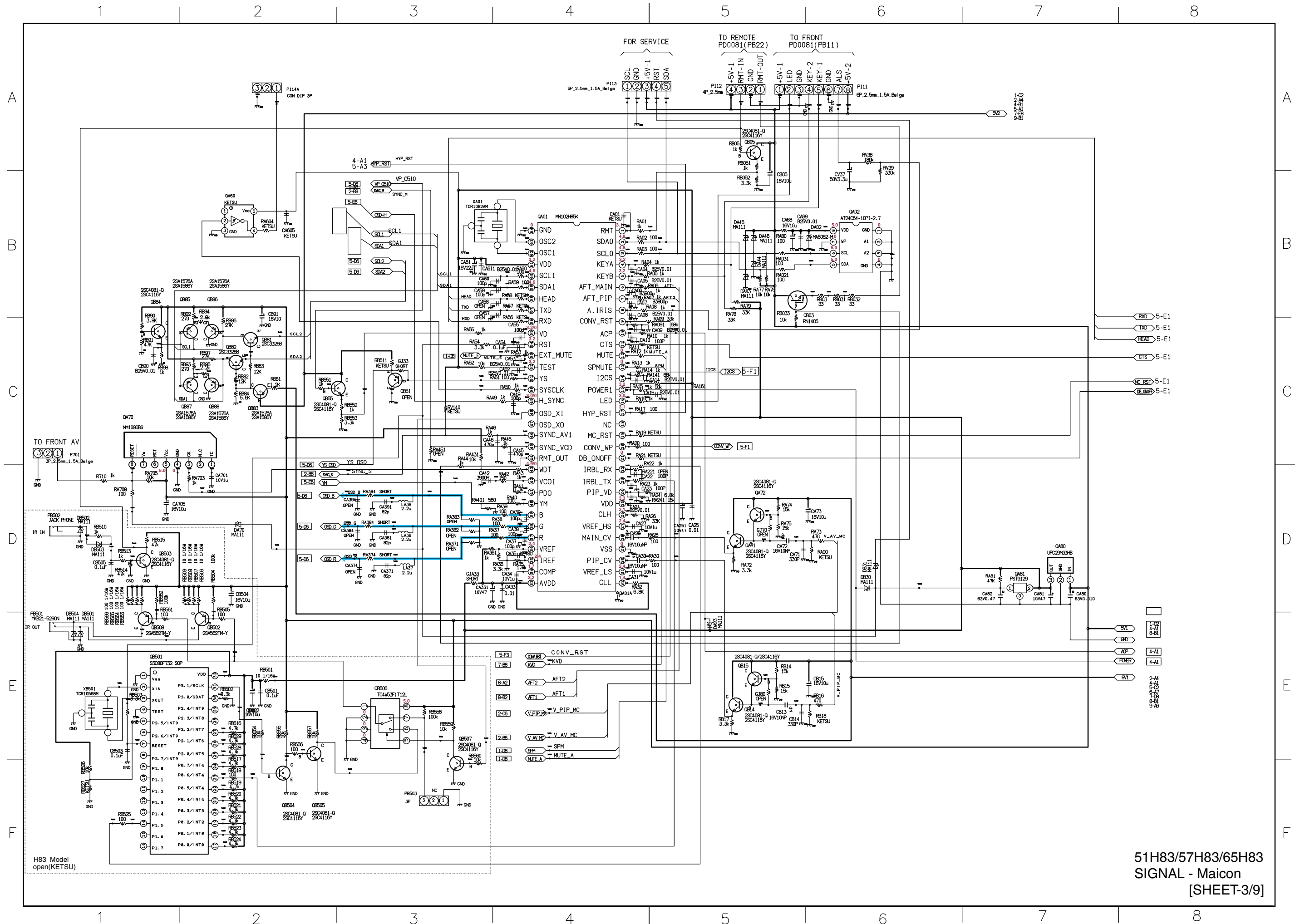
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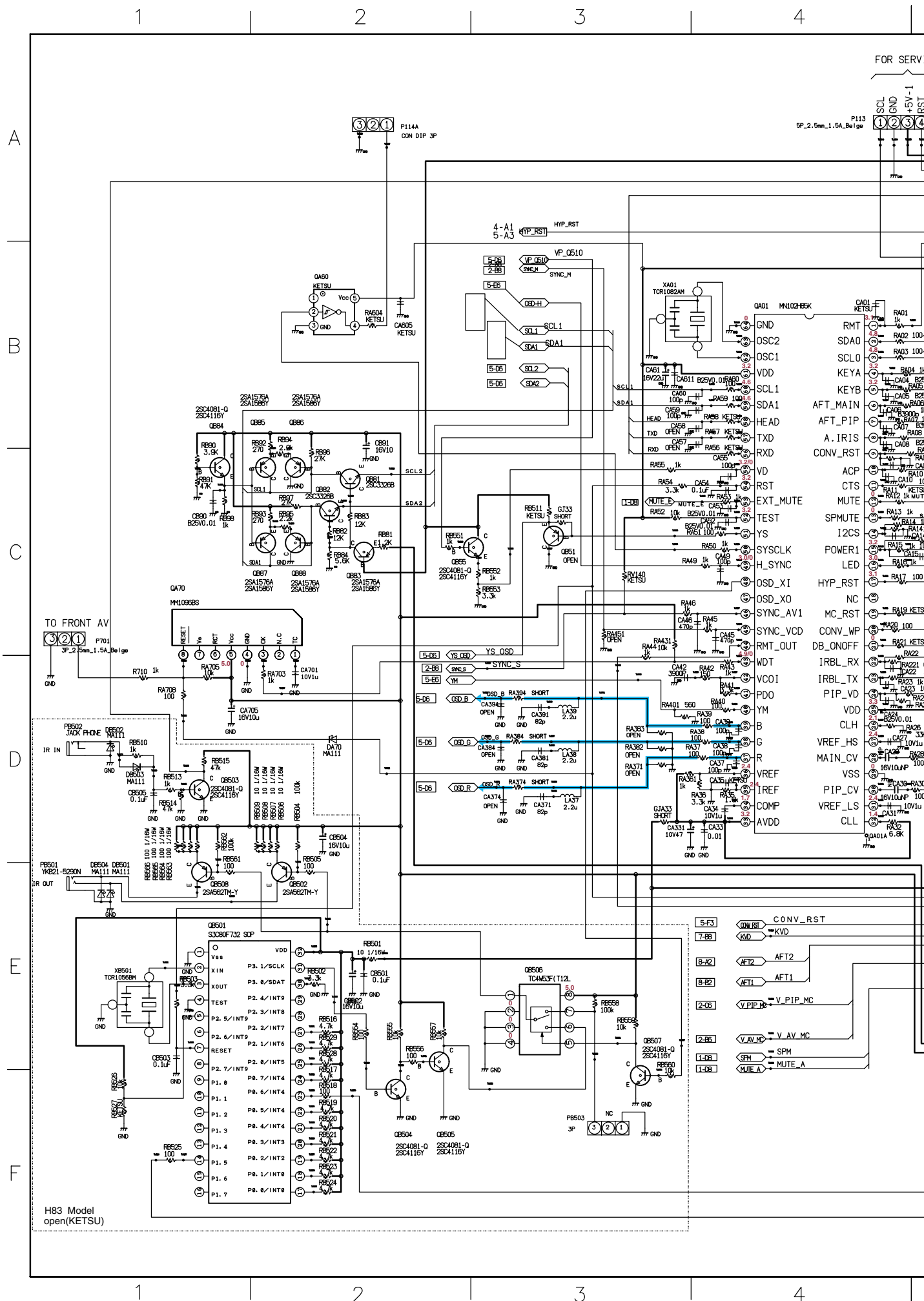
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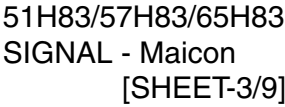
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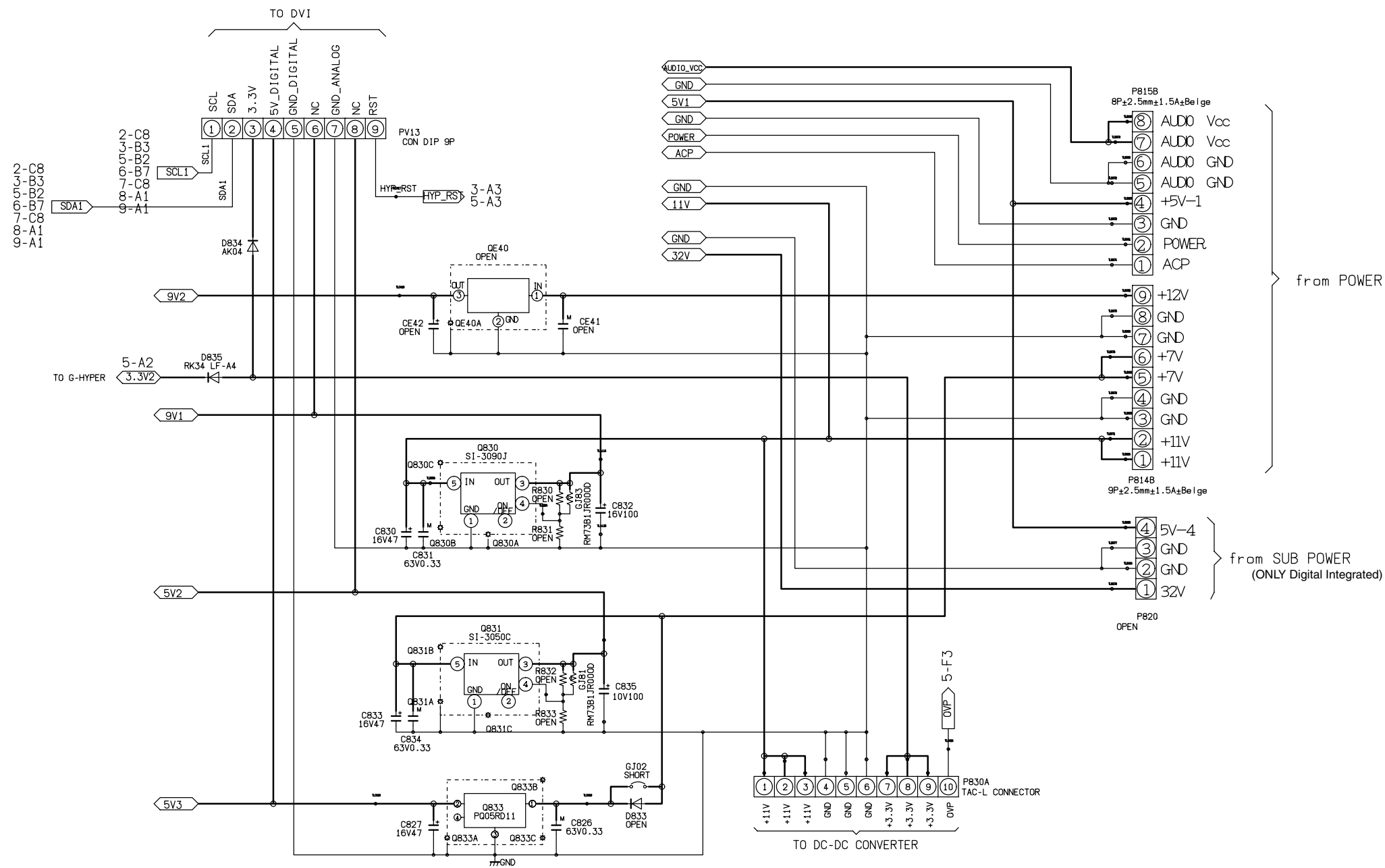


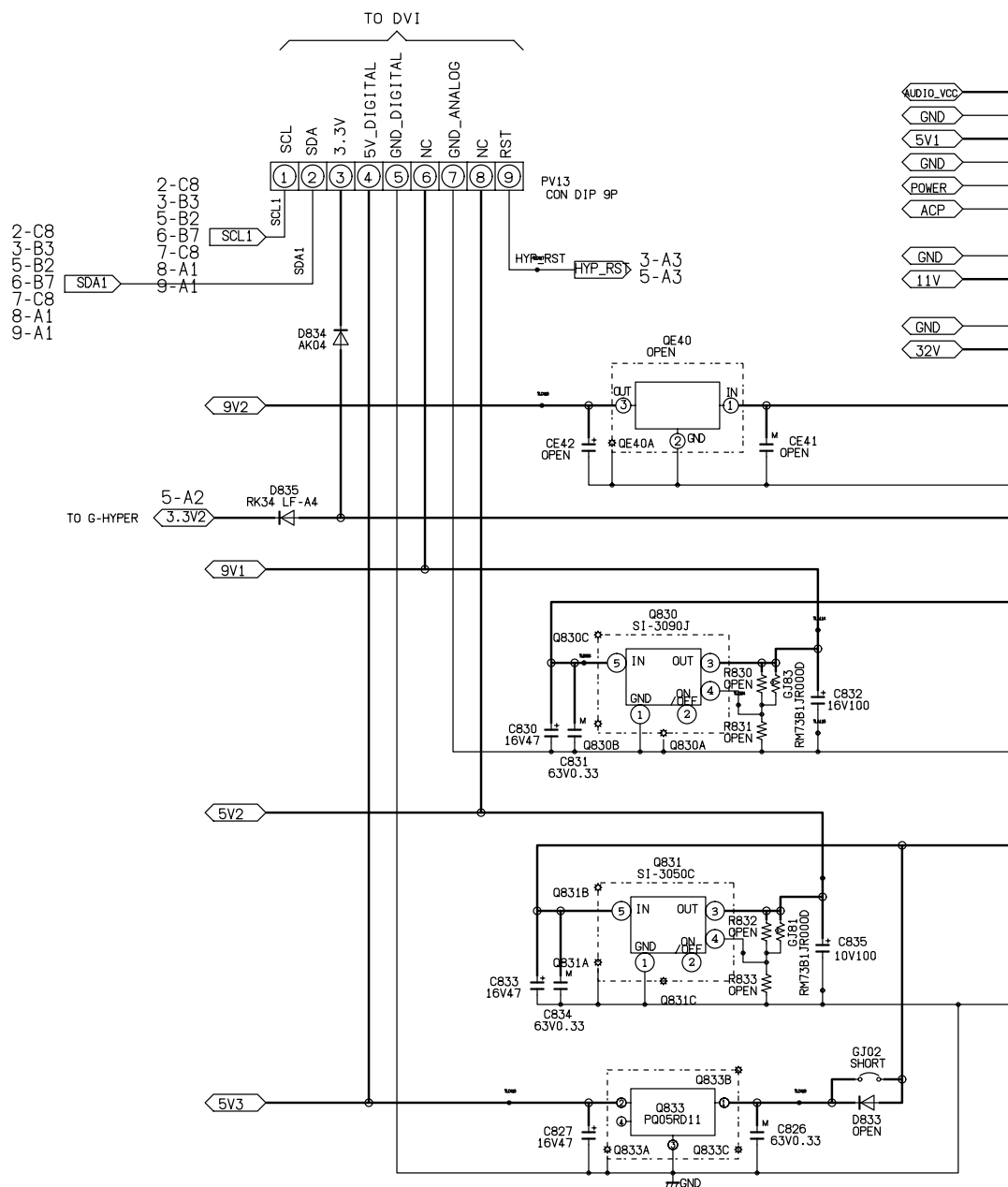


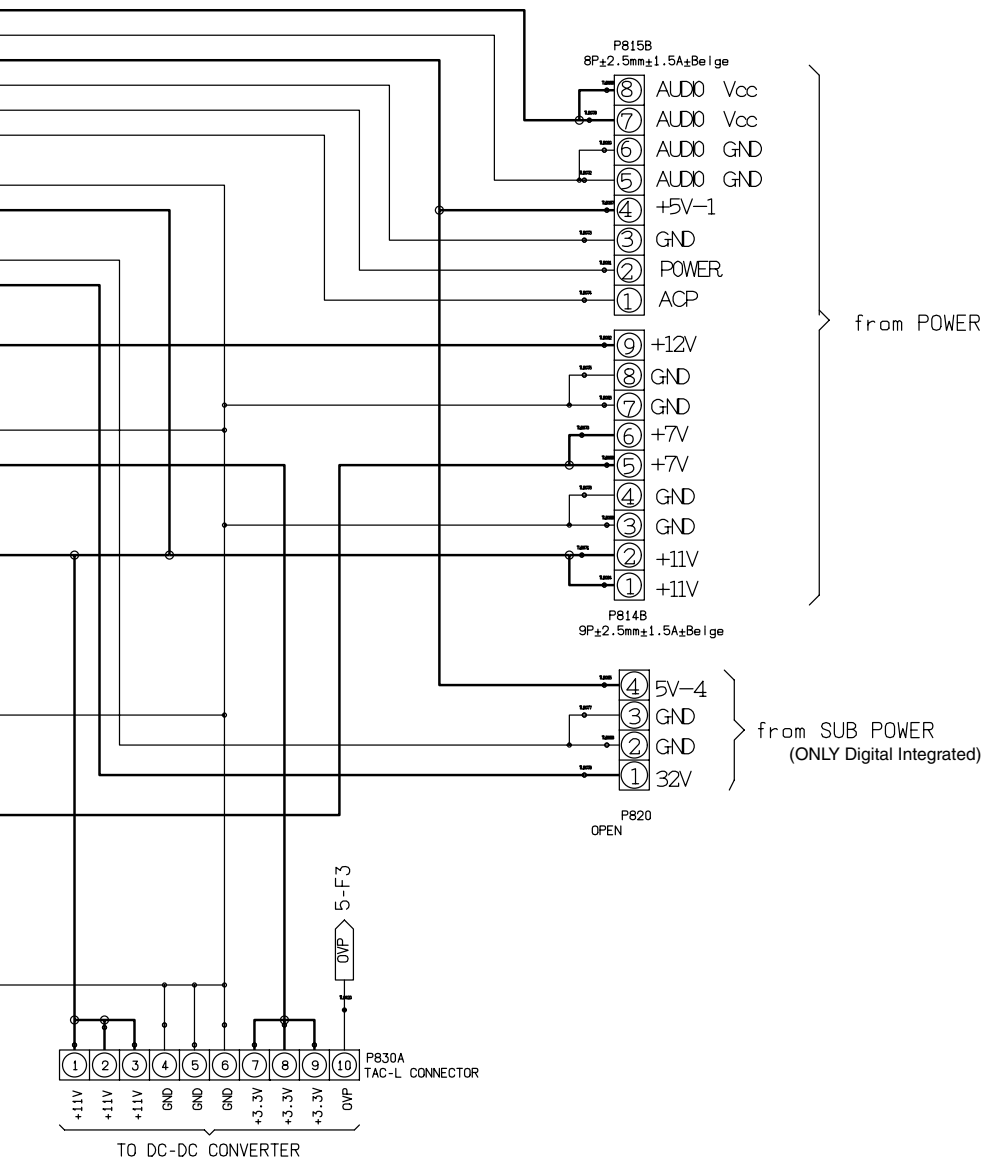








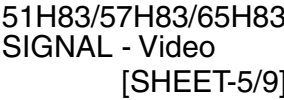


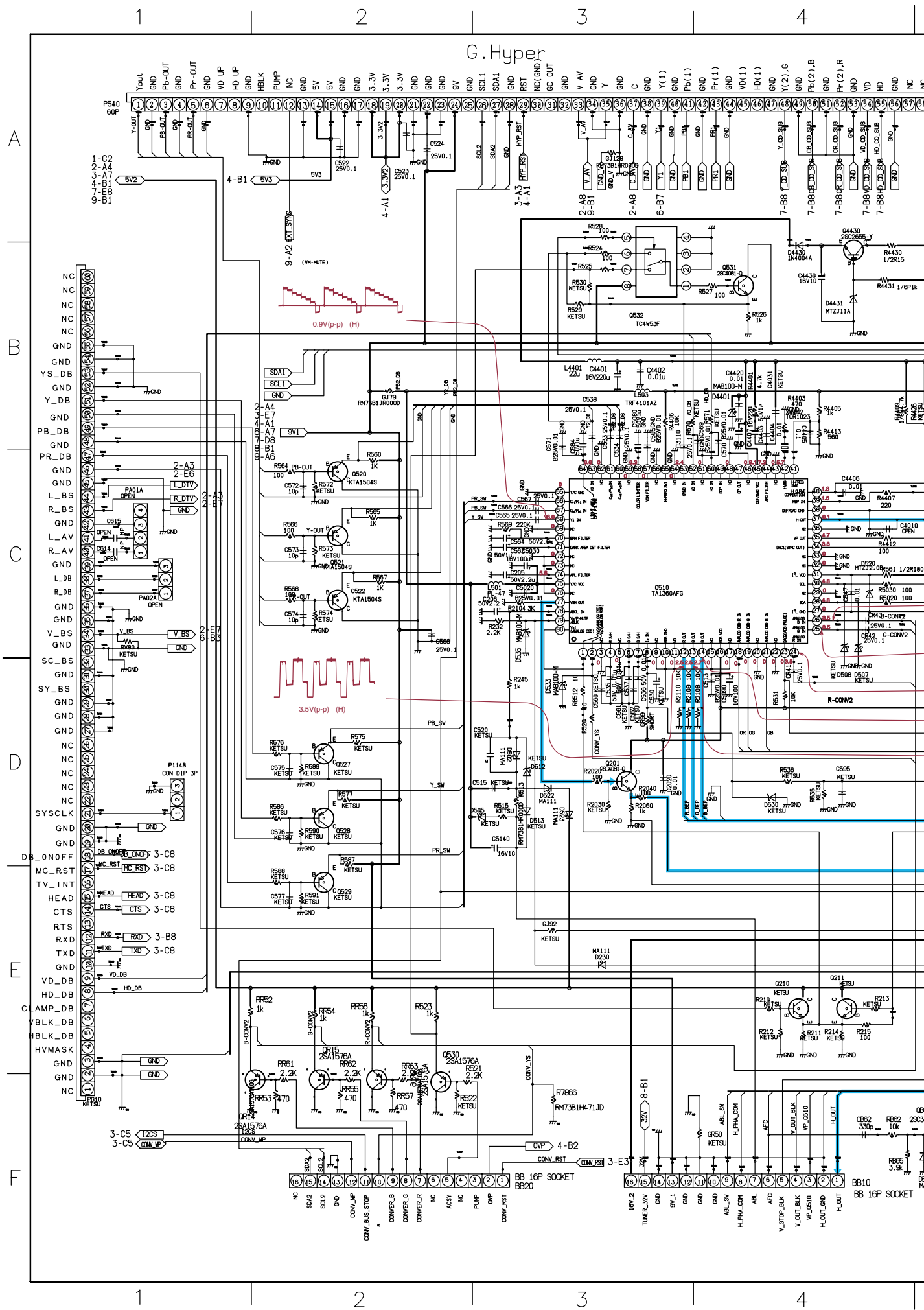


A

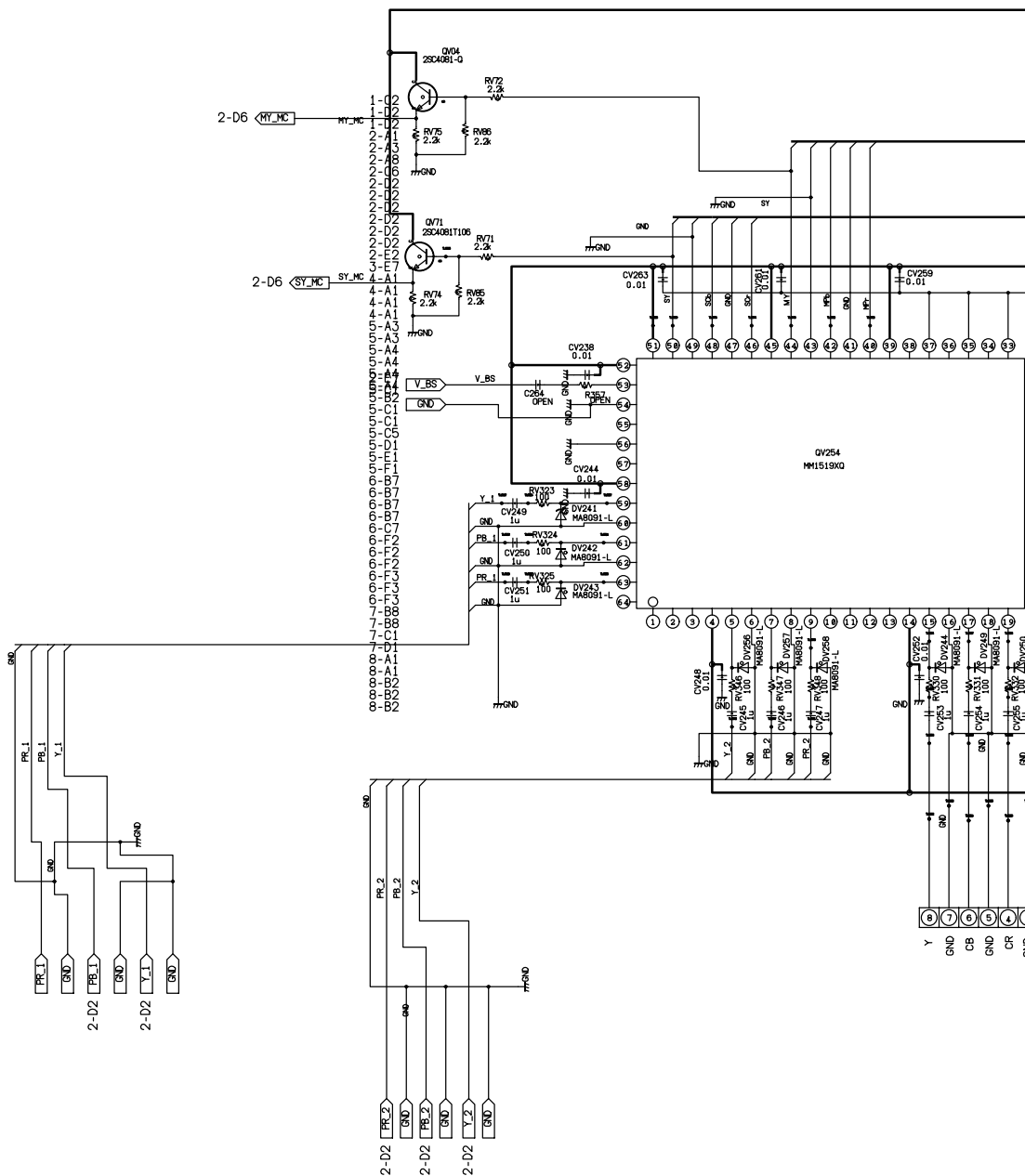
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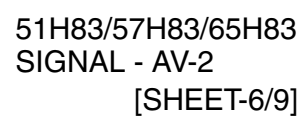
51H83/57H83/65H83
SIGNAL - REGULATOR
[SHEET-4/9]





F





A

B

C

D

E

F

A

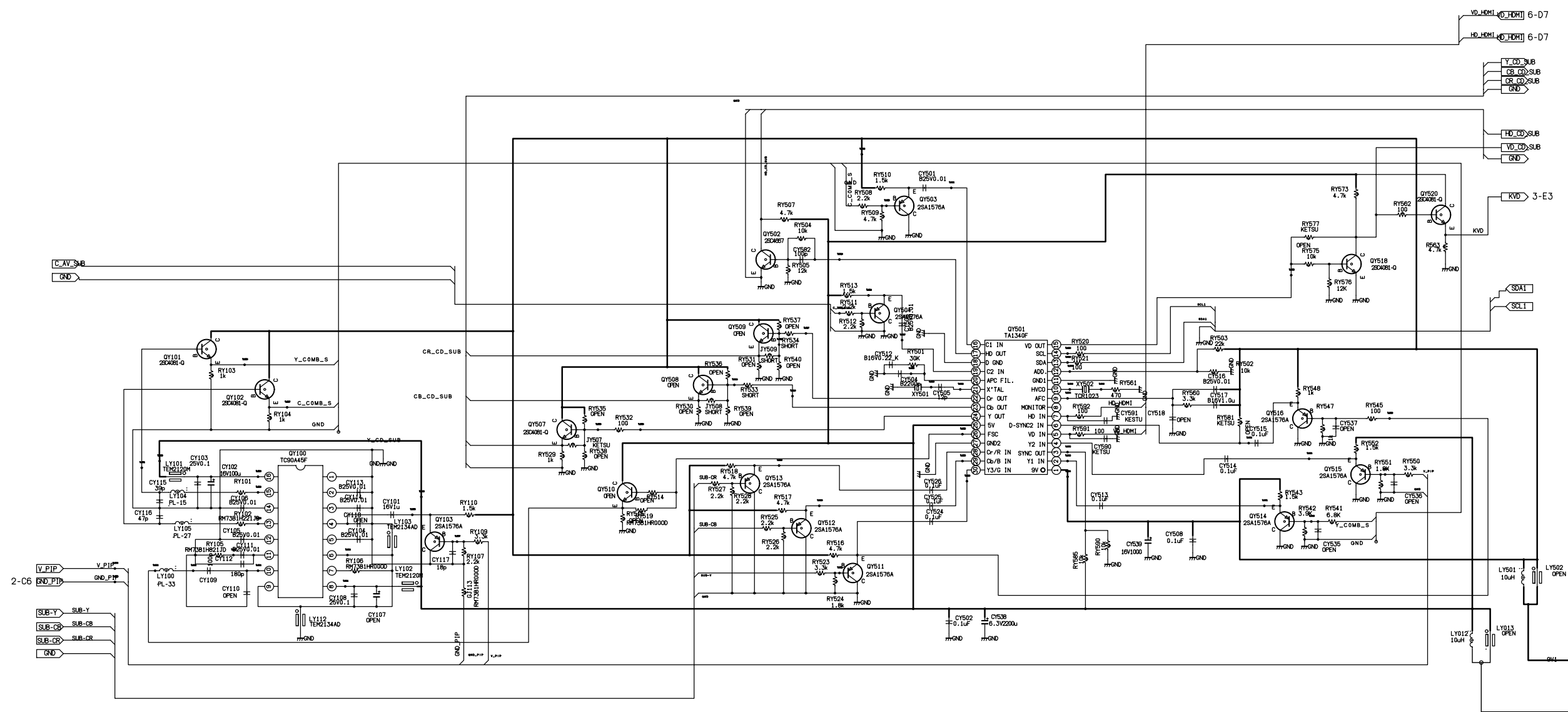
B

C

D

E

F



A

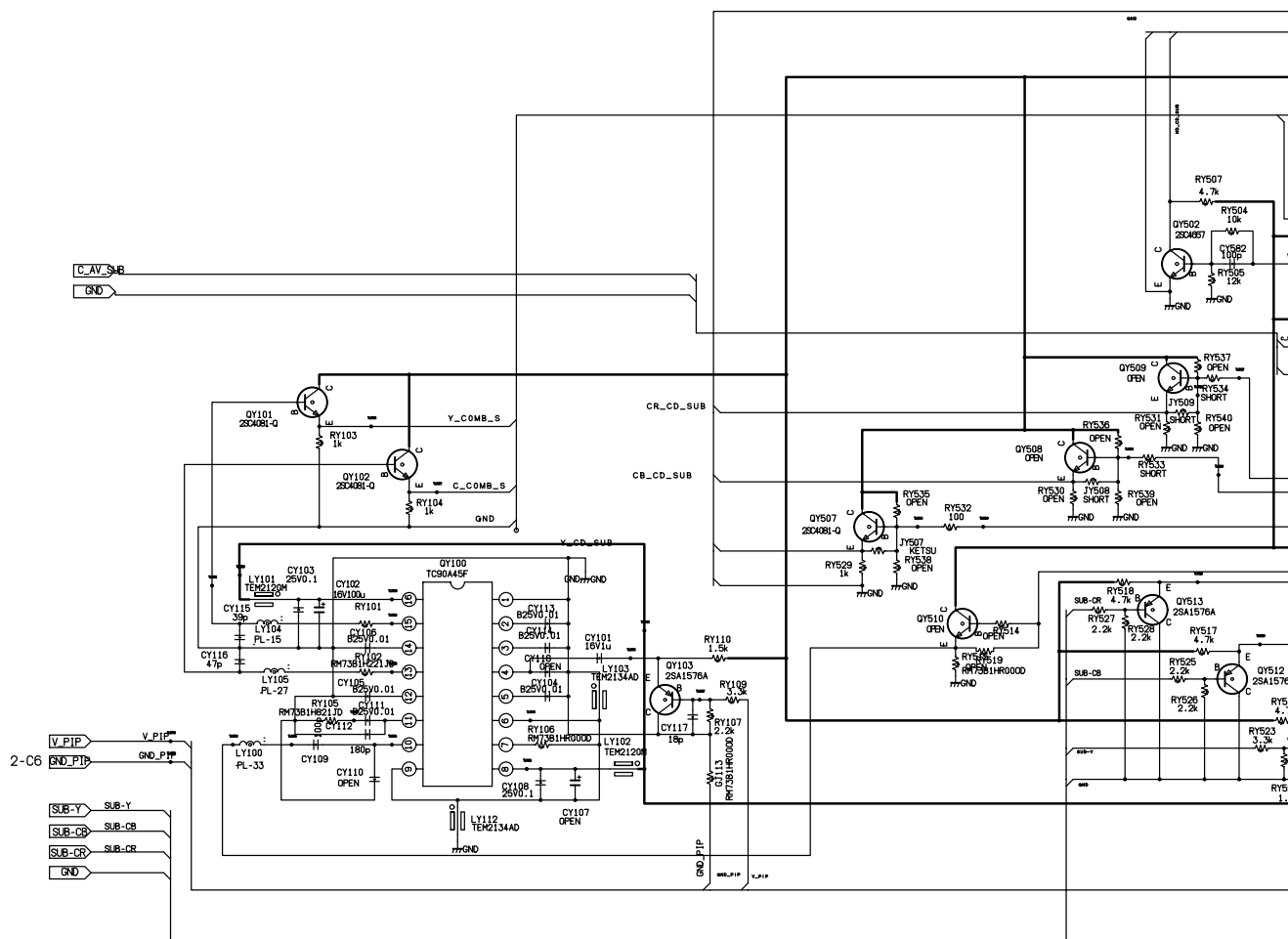
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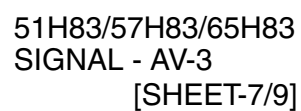
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D

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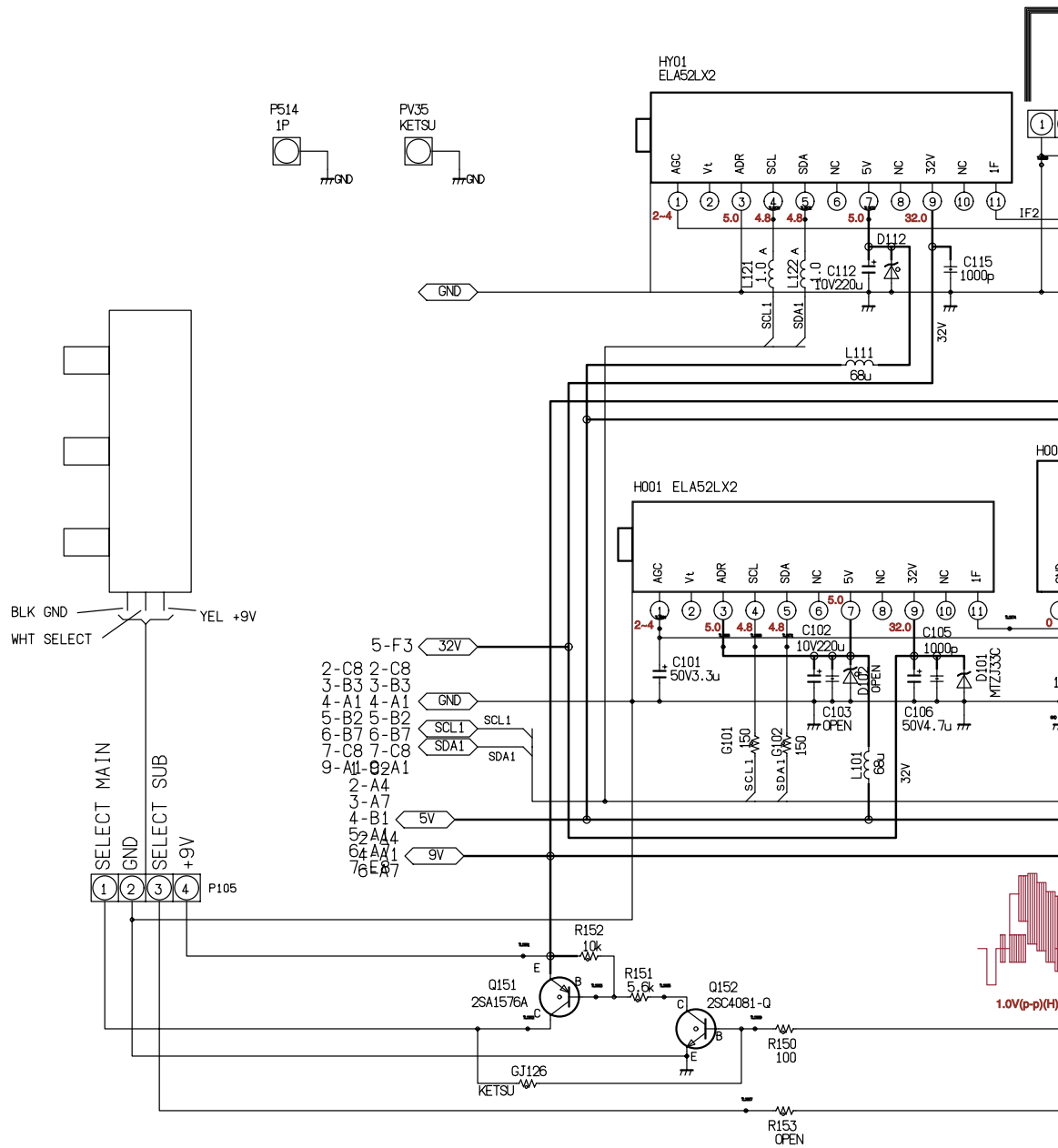
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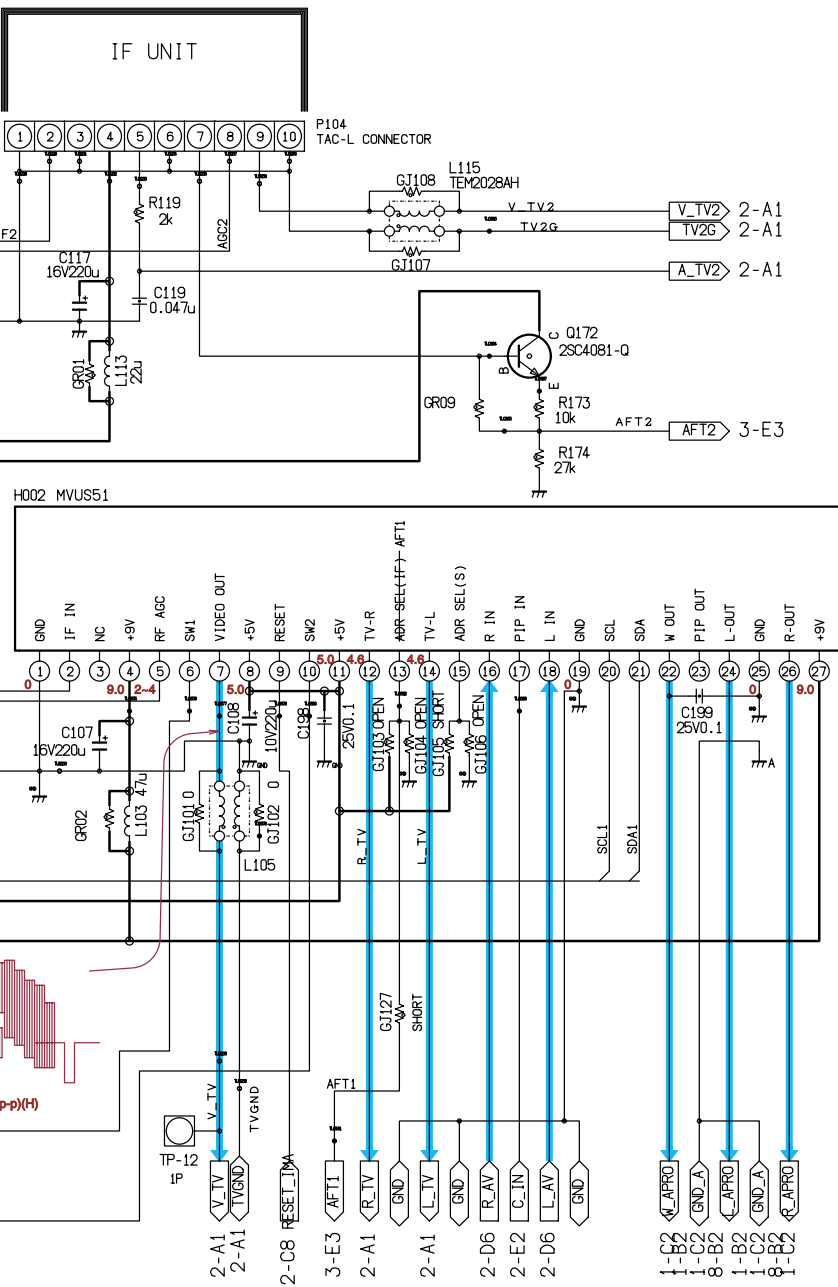




A

B

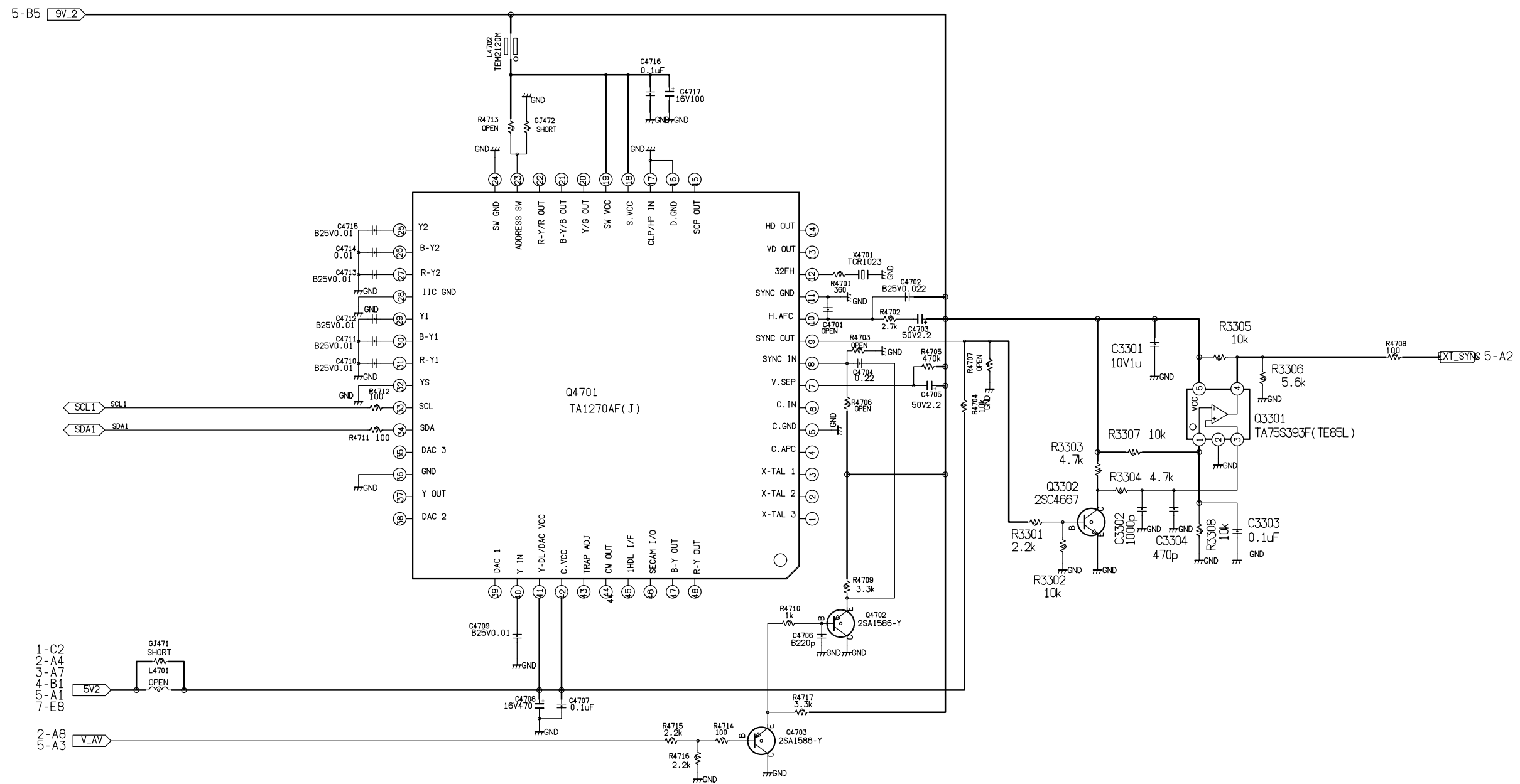




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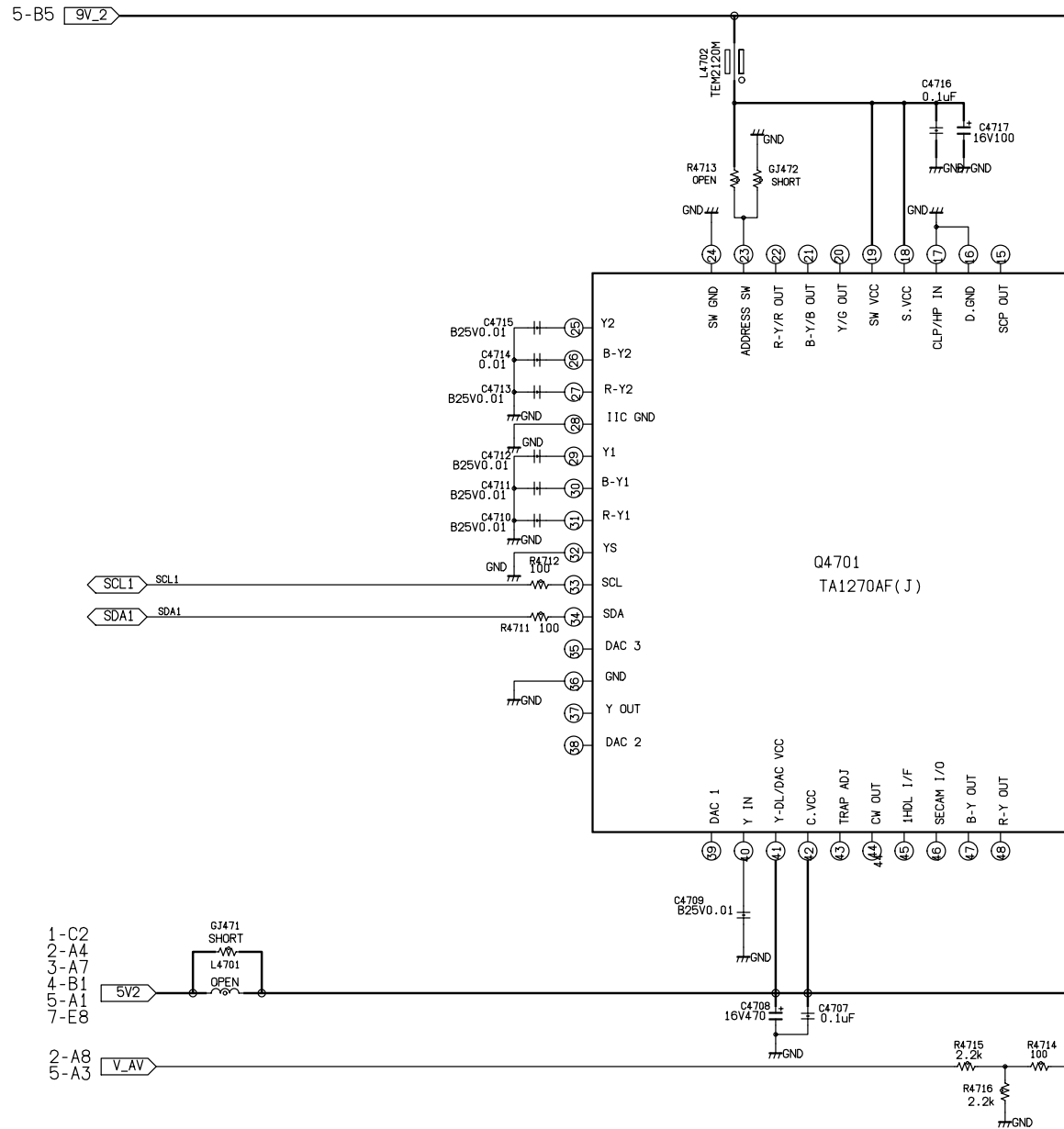
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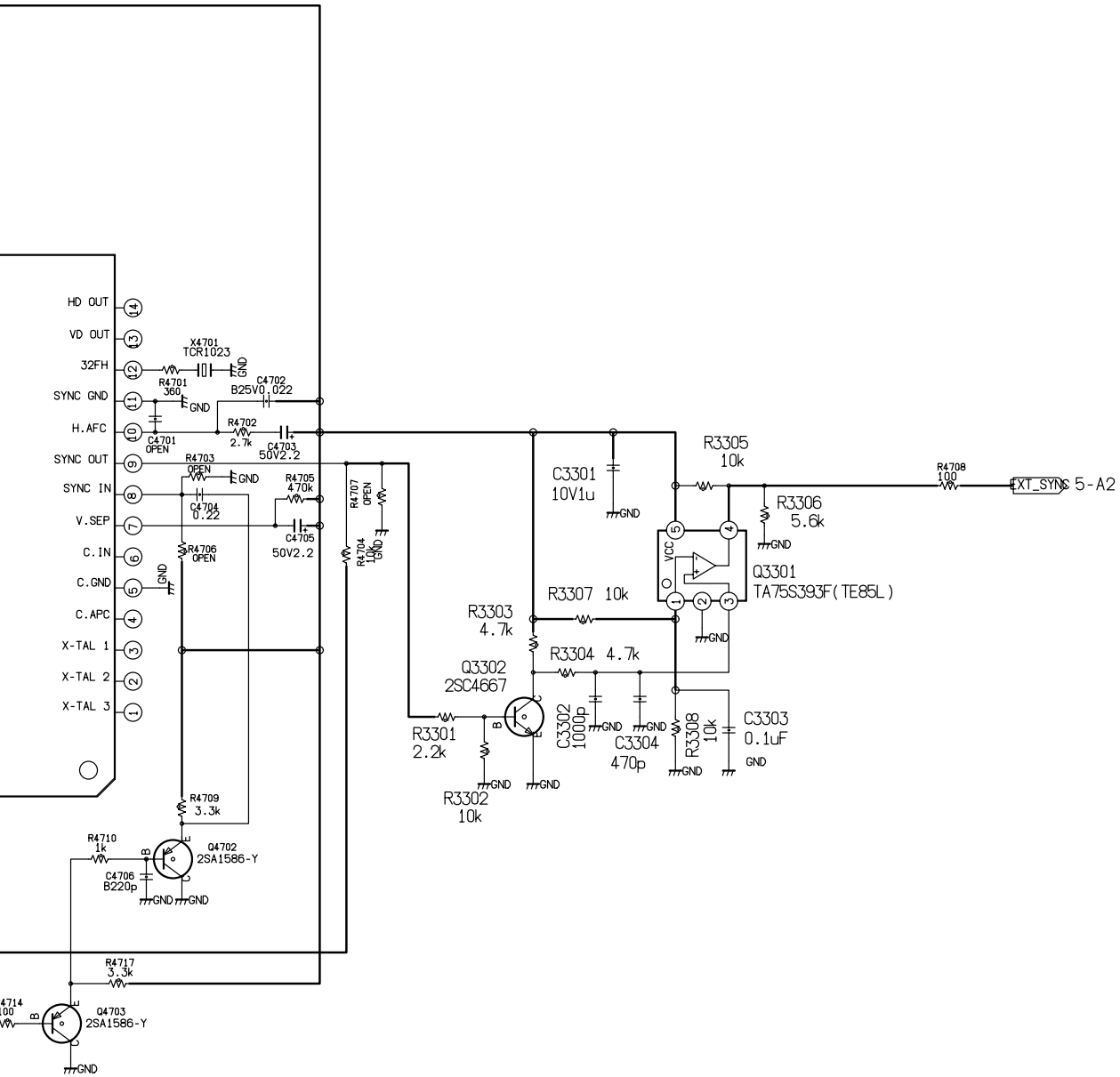
51H83/57H83/65H83
SIGNAL - IF
[SHEET-8/9]



A

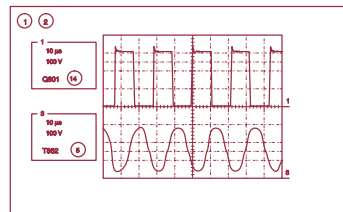
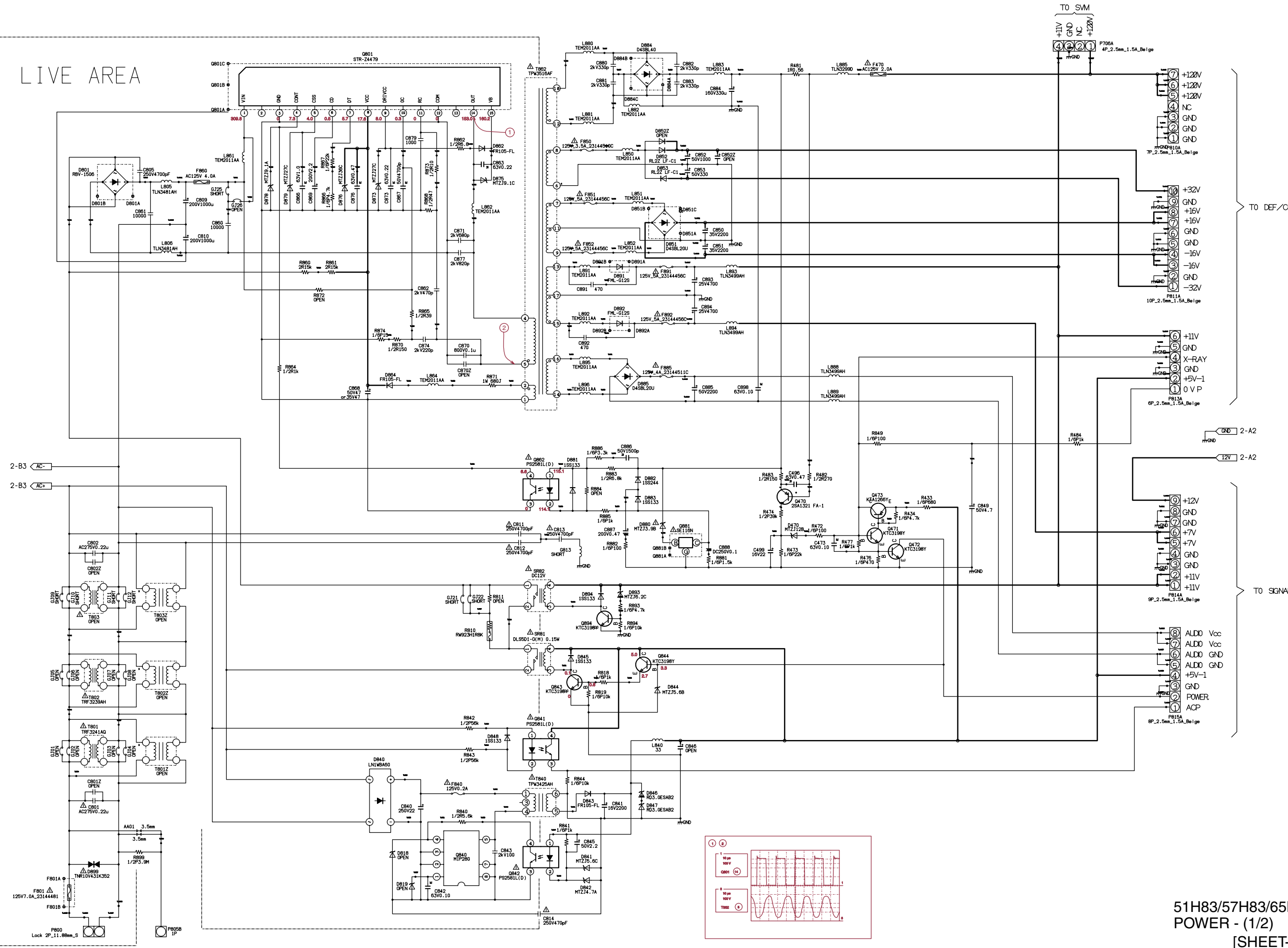
B





51H83/57H83/65H83
SIGNAL - SYNC OUT
[SHEET-9/9]

LIVE AREA



51H83/57H83/65H83
POWER - (1/2)
[SHEET-1/2]

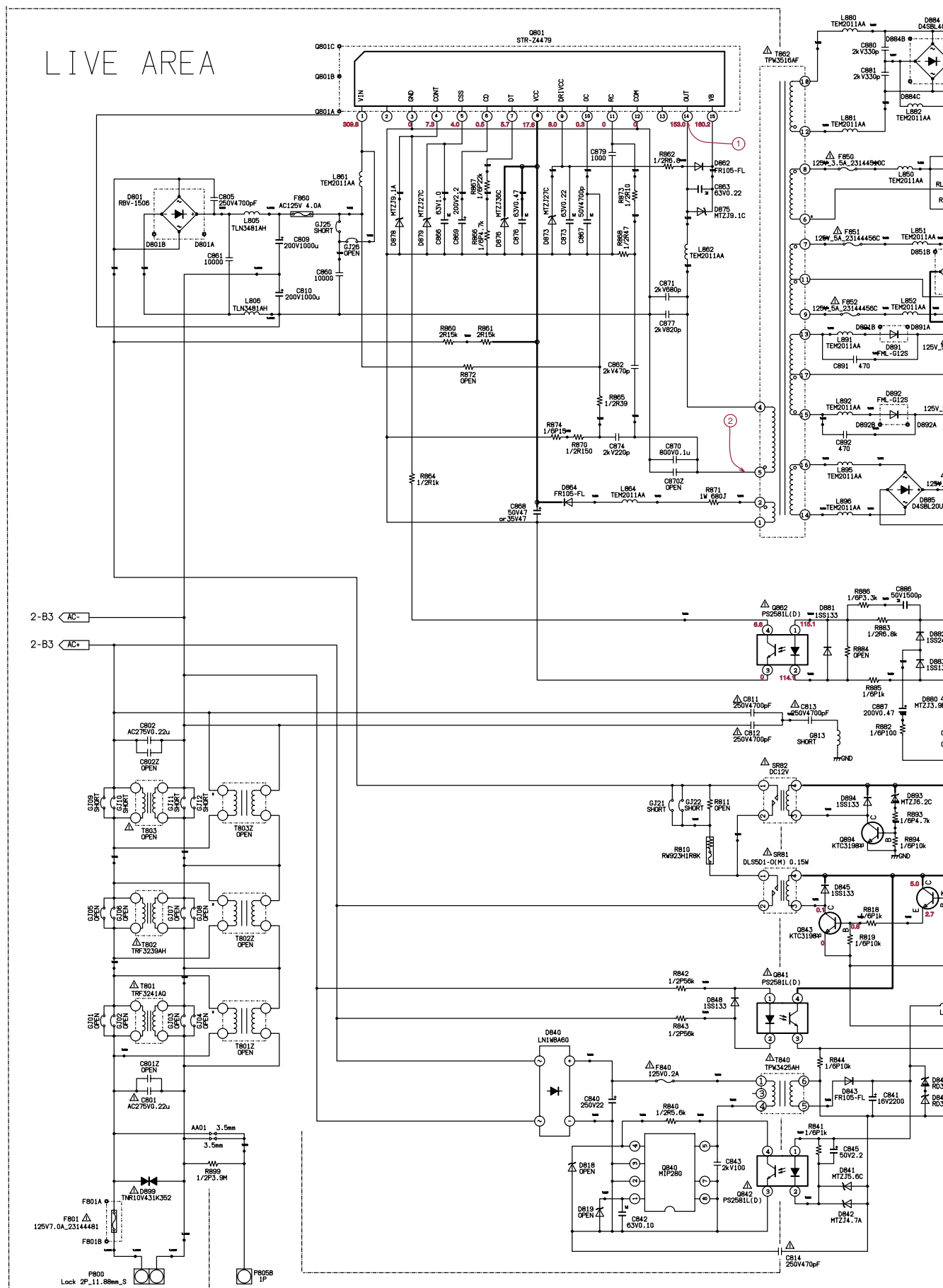
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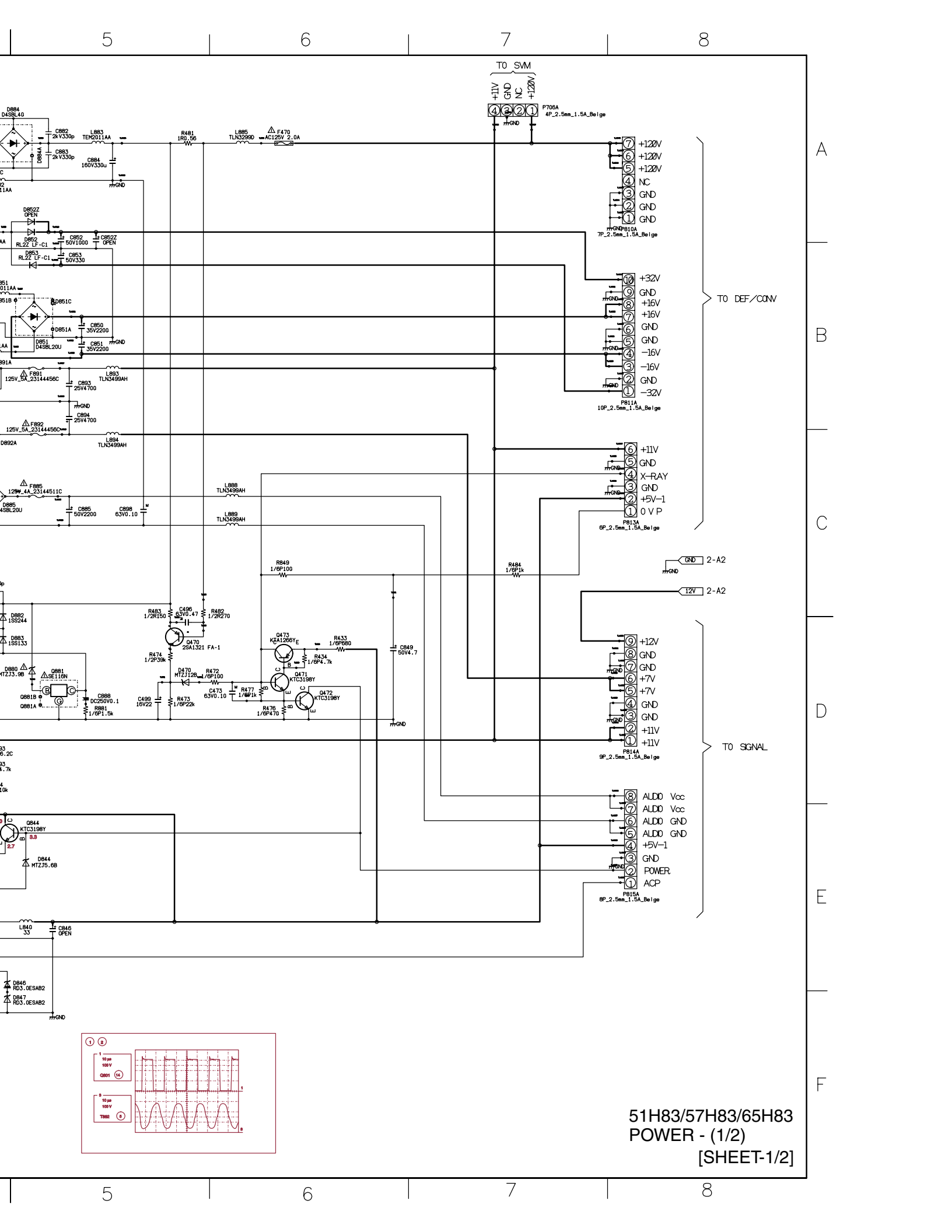
C

D

E

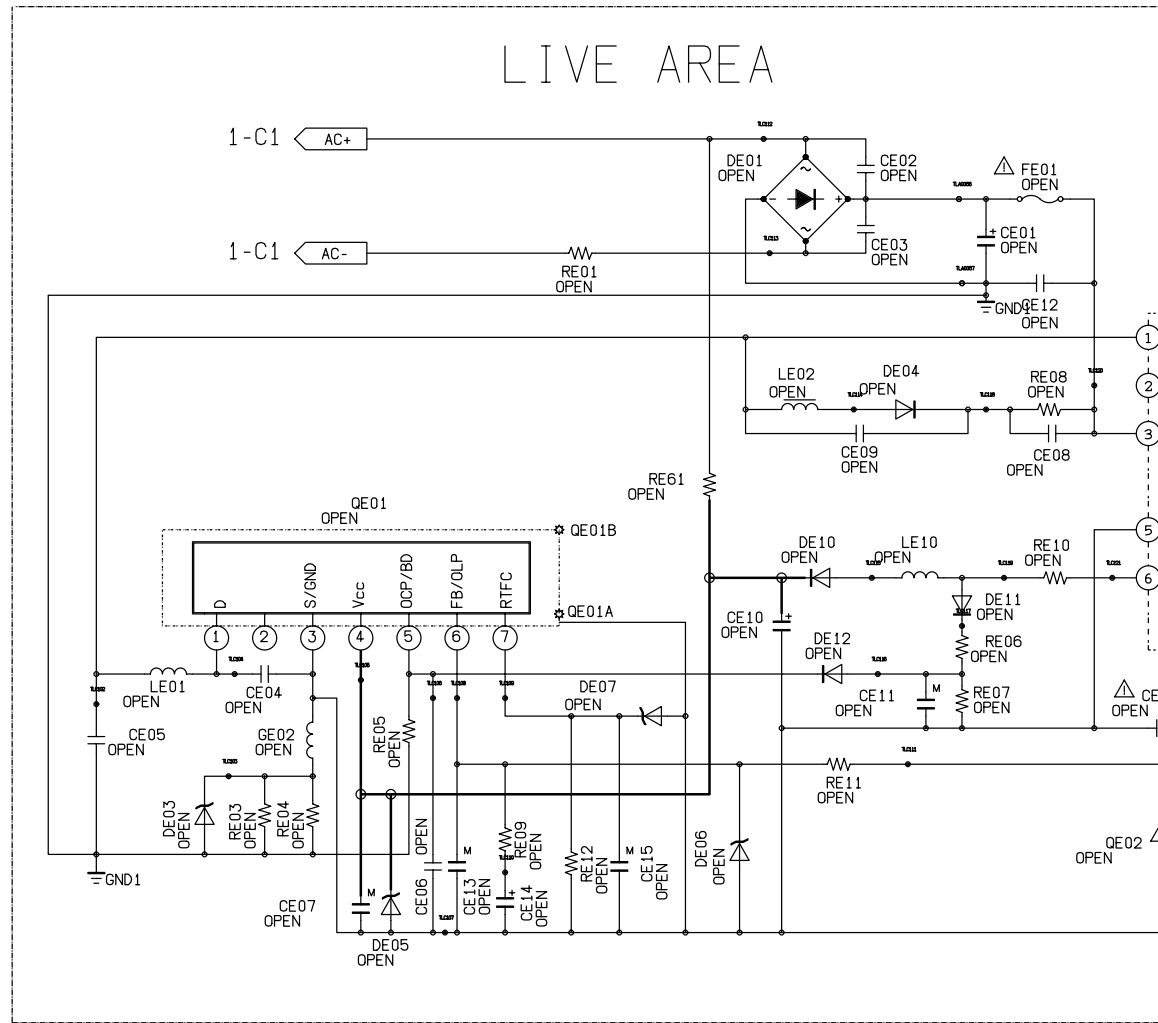
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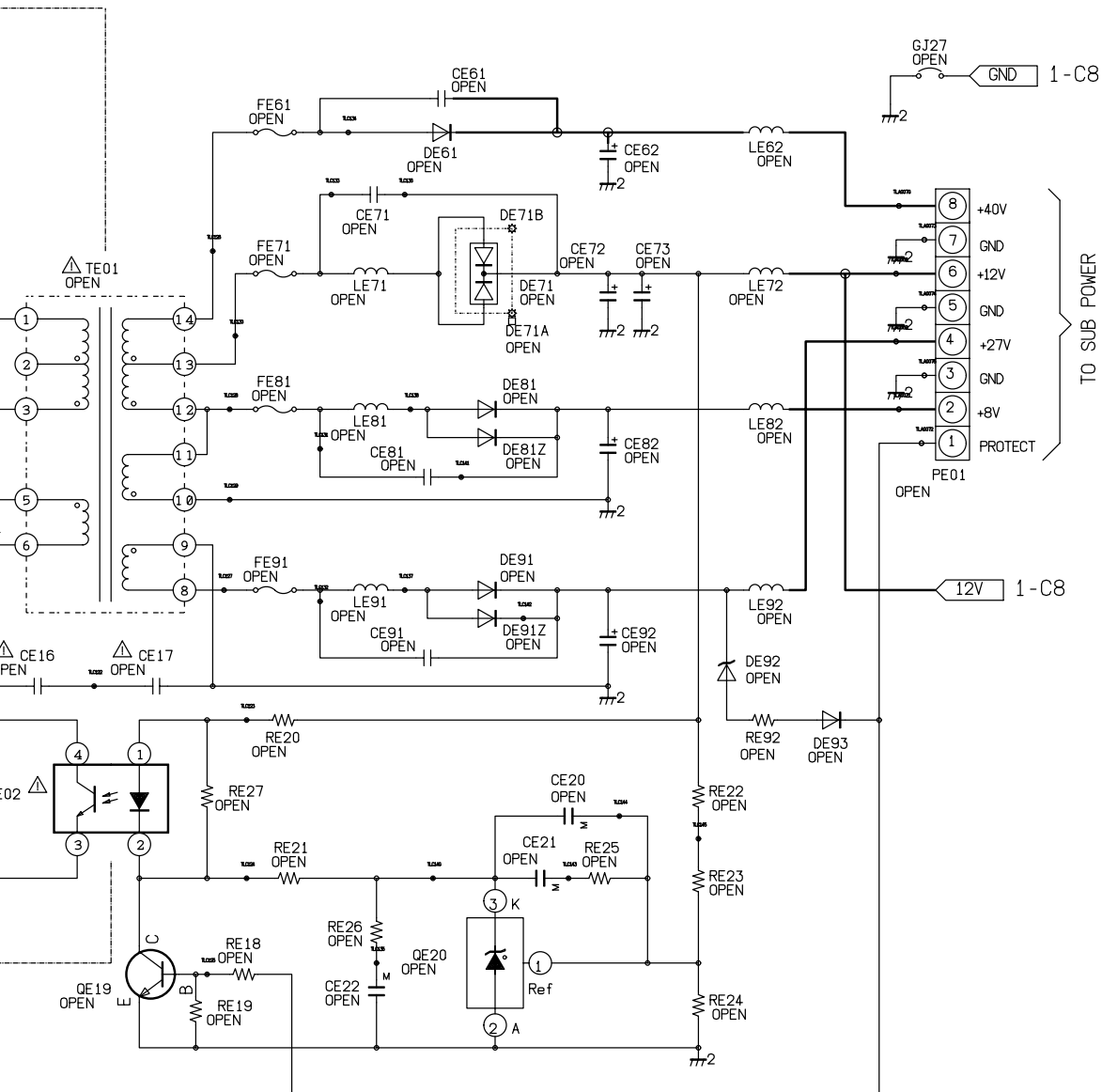




A

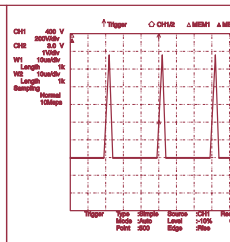
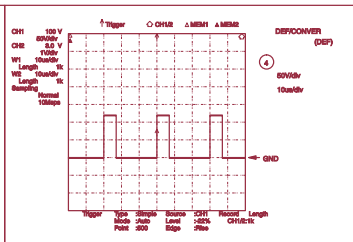
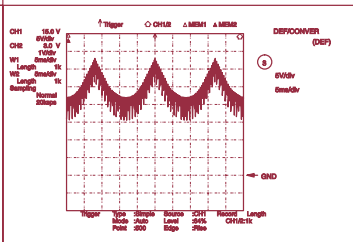
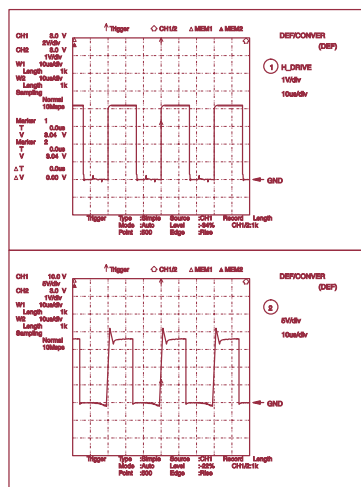
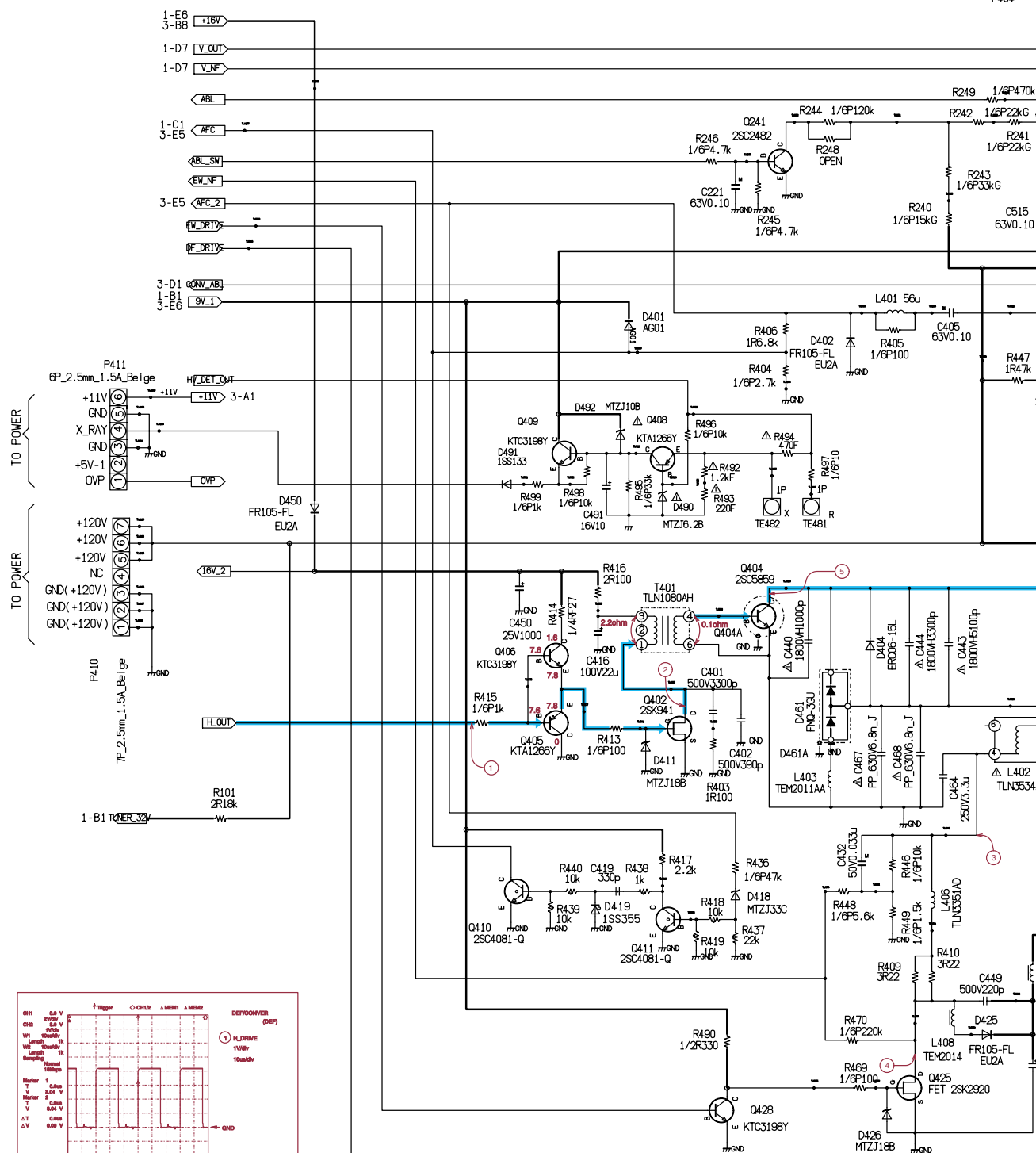
B



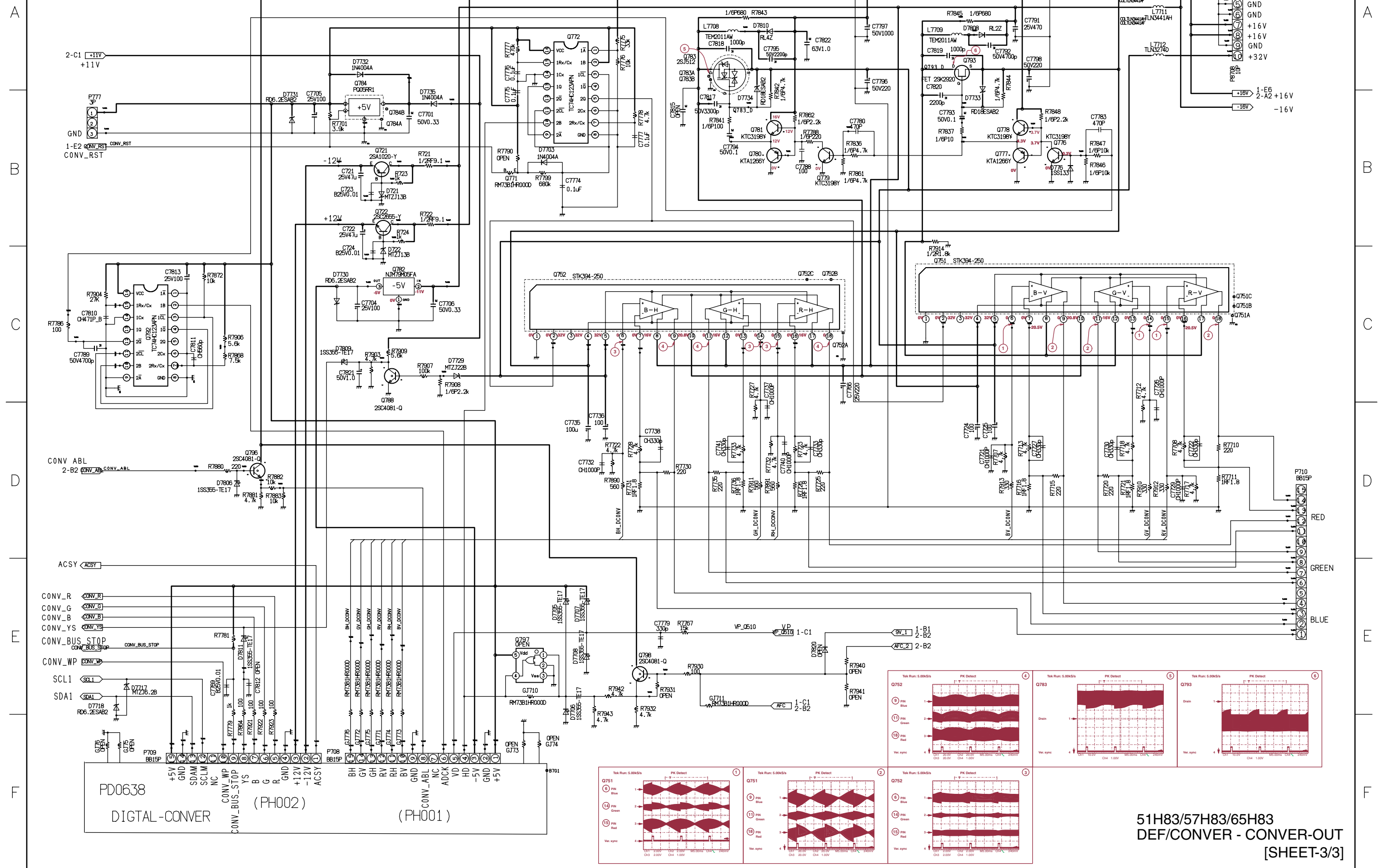


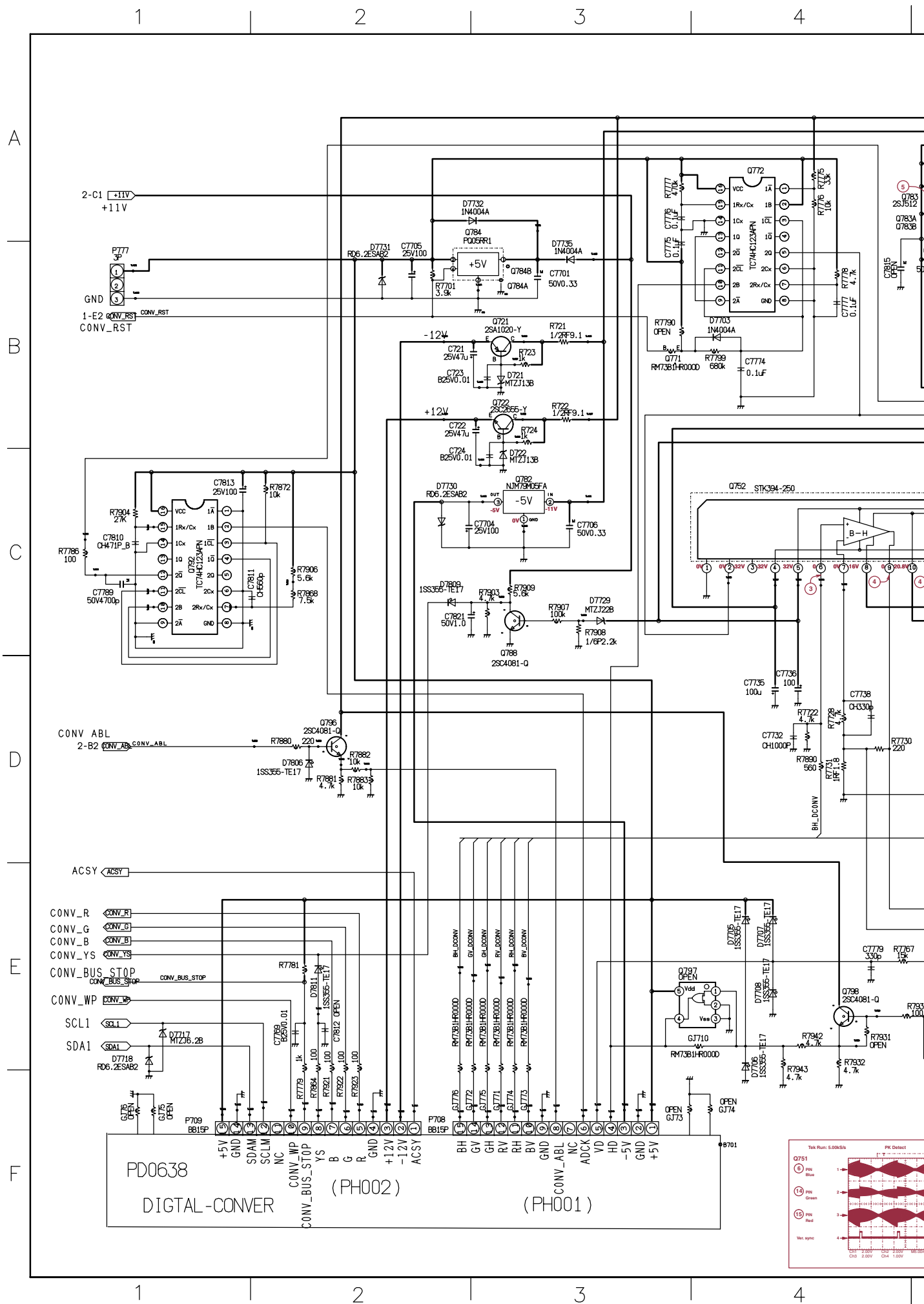
51H83/57H83/65H83
POWER - (2/2)

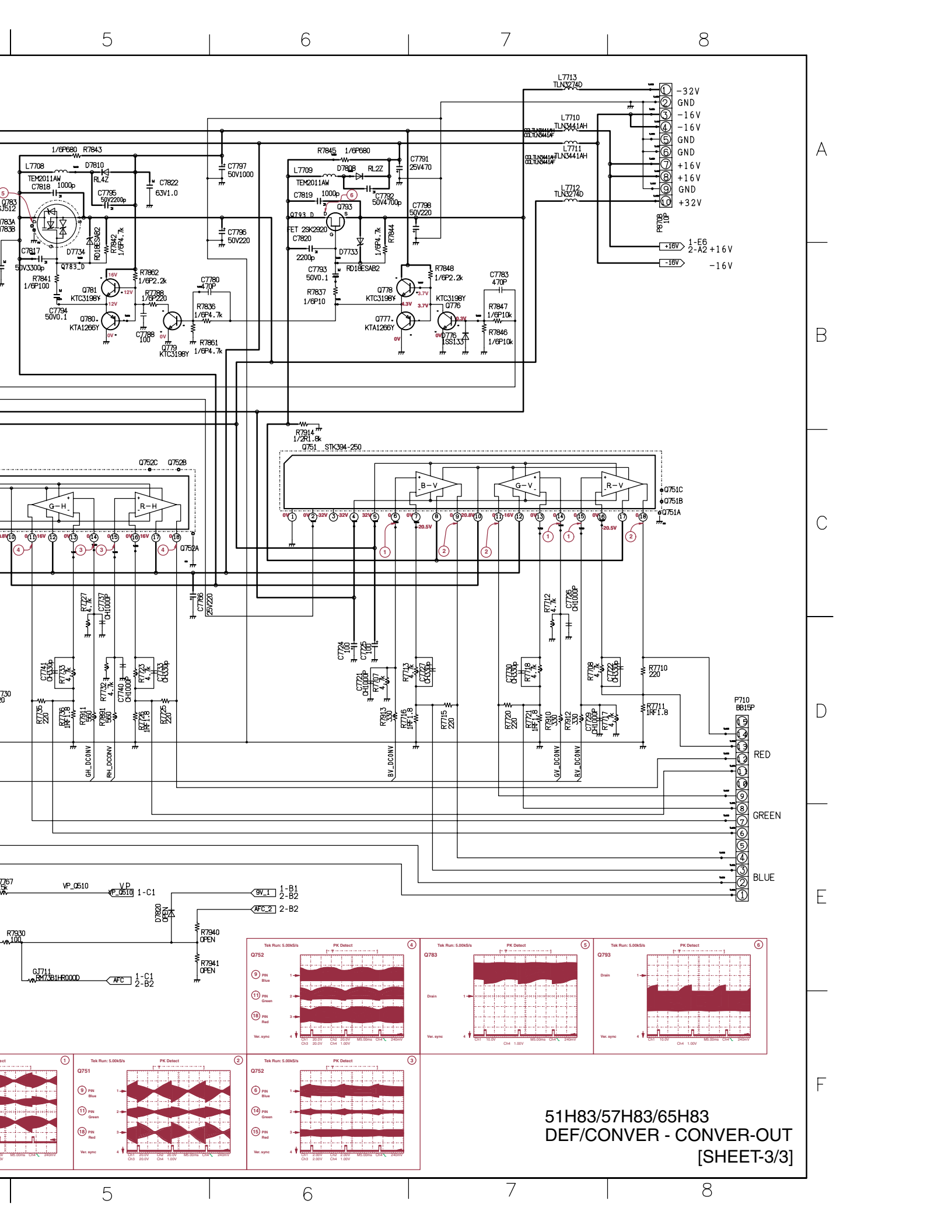
[SHEET-2/2]



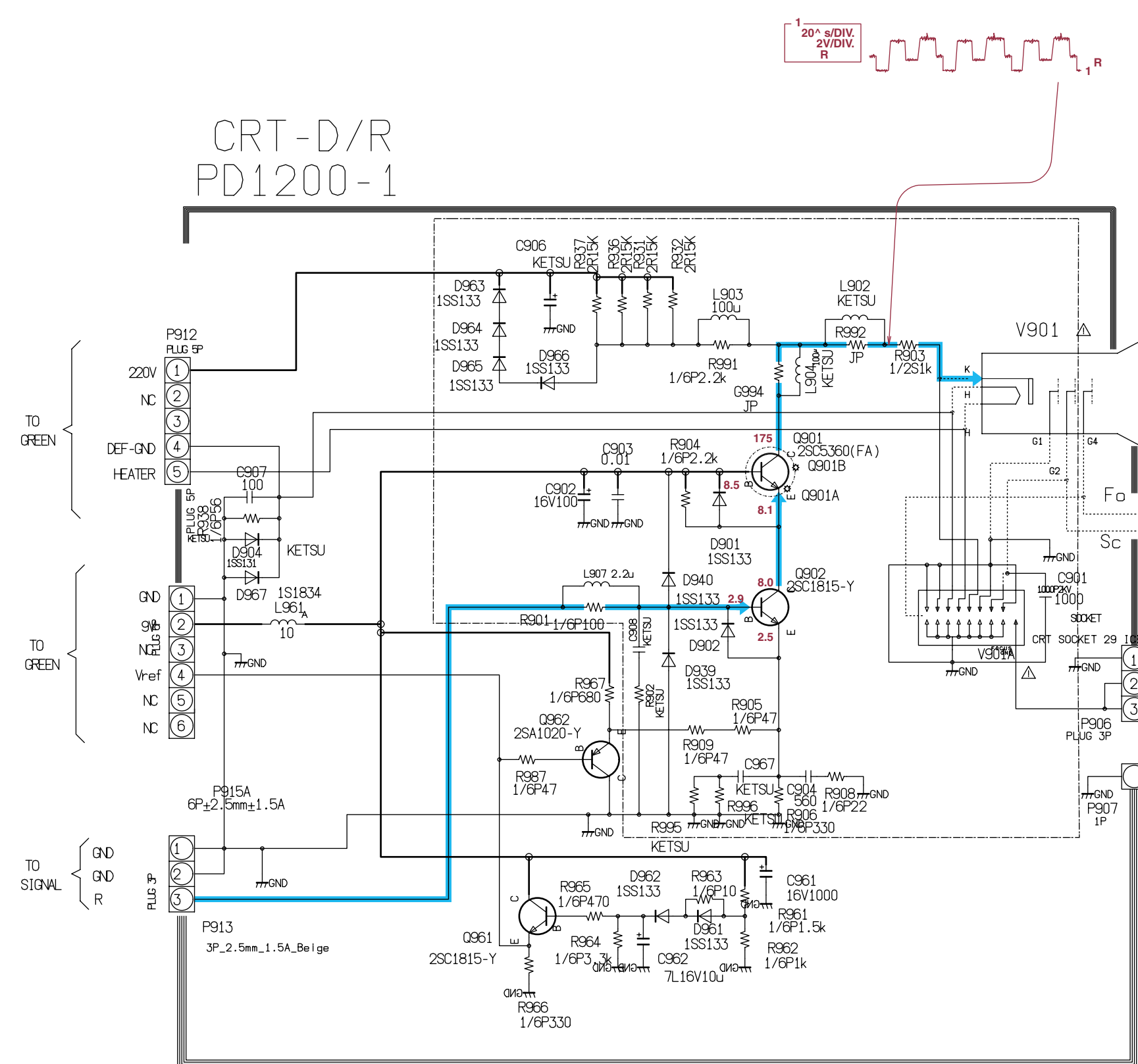
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DEF/CONVER - DEF
[SHEET-2/3]



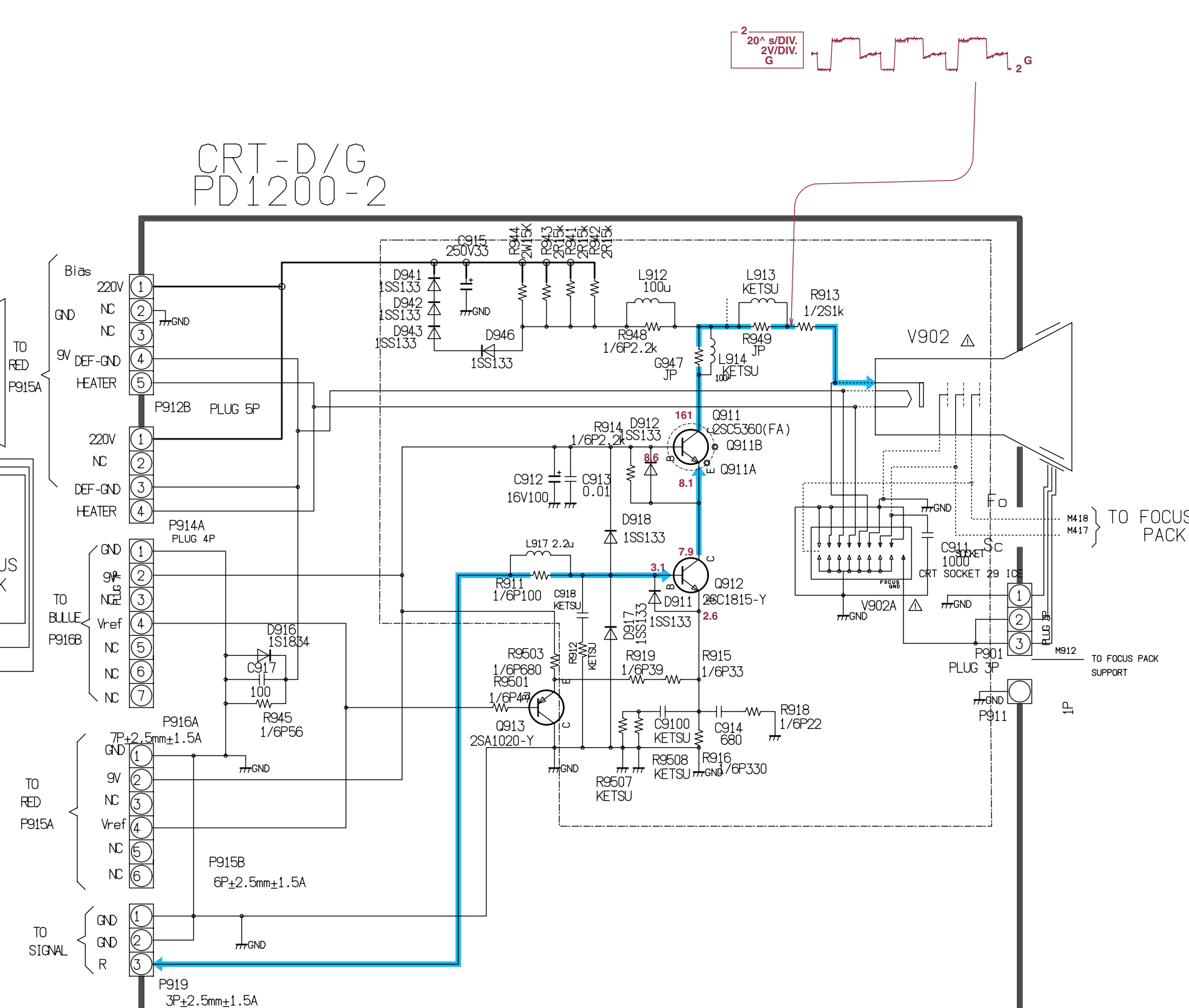




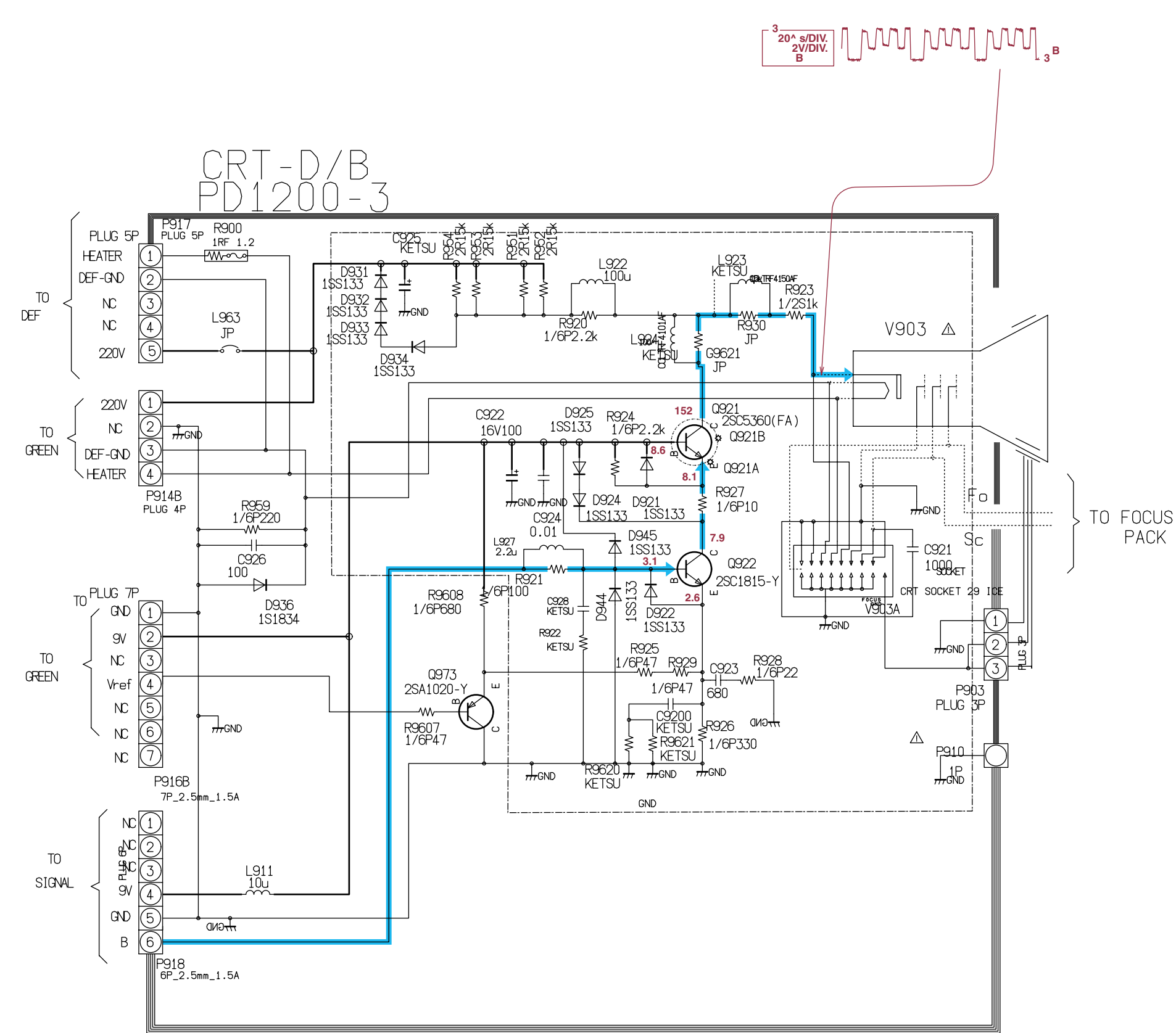
CRT-D/R
PD1200-1



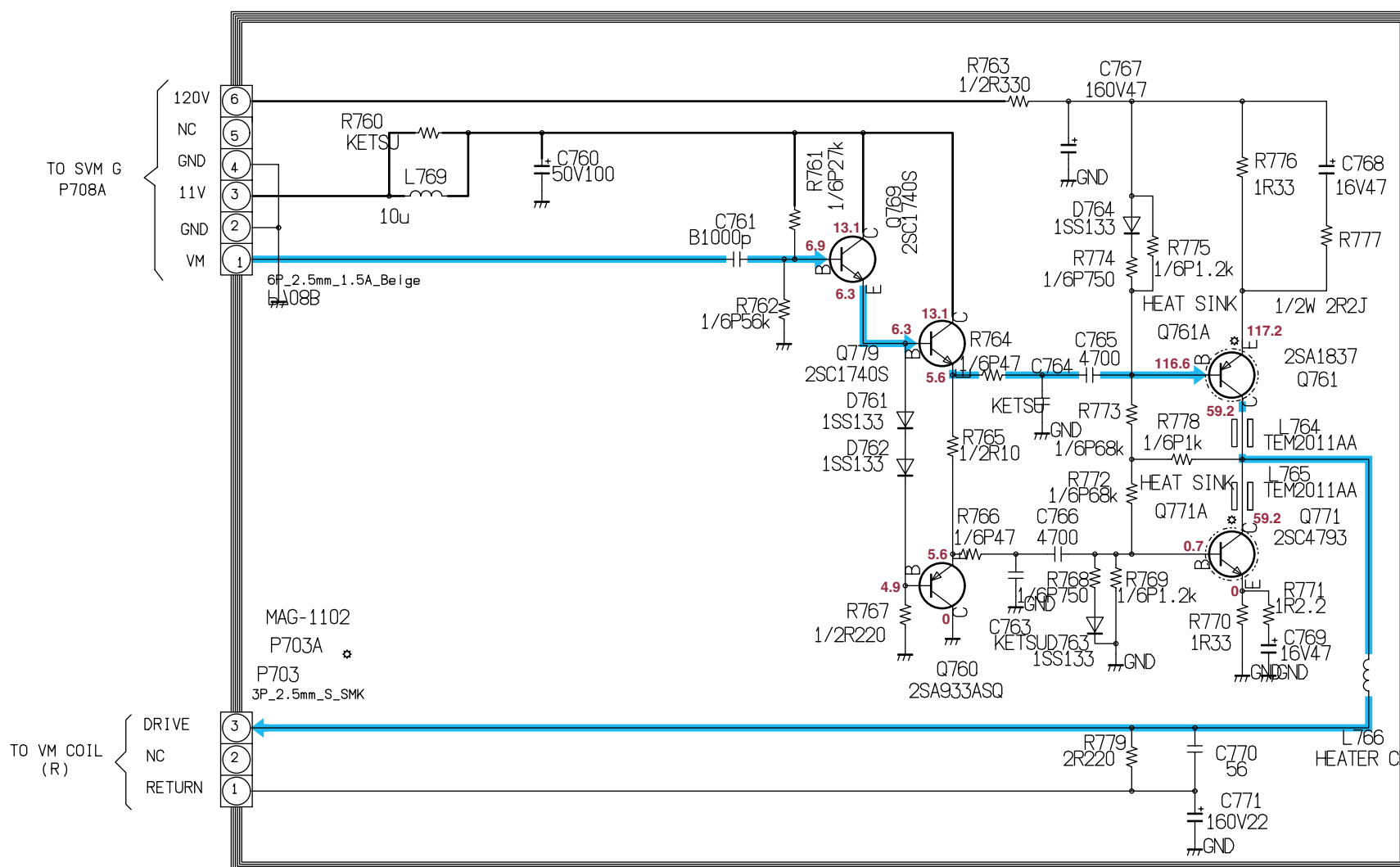
CRT-D/G
PD1200-2



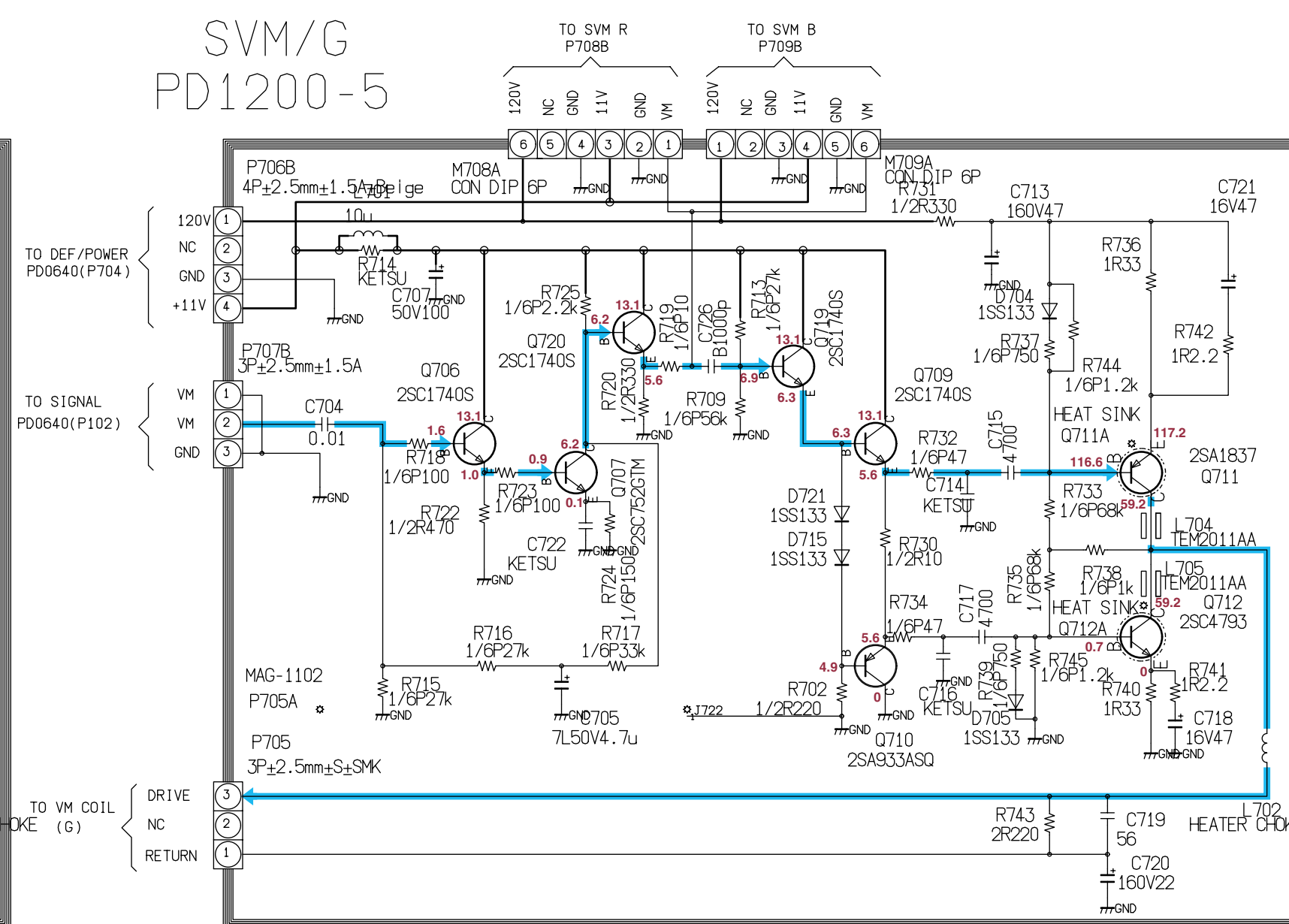
CRT-D/B
PD1200-3



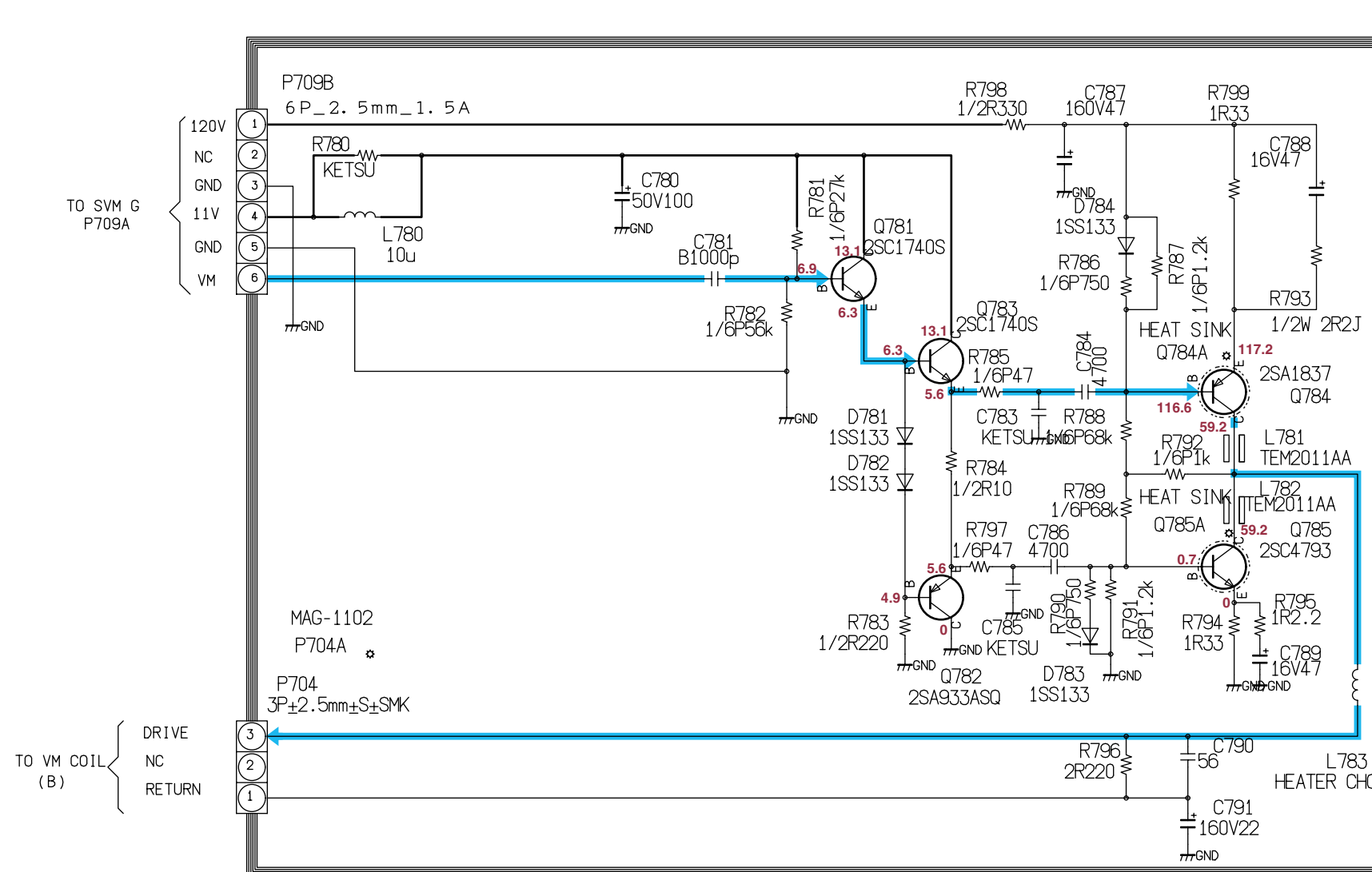
SVM/R
PD1200-4



SVM/G
PD1200-5



SVM/B
PD1200-6

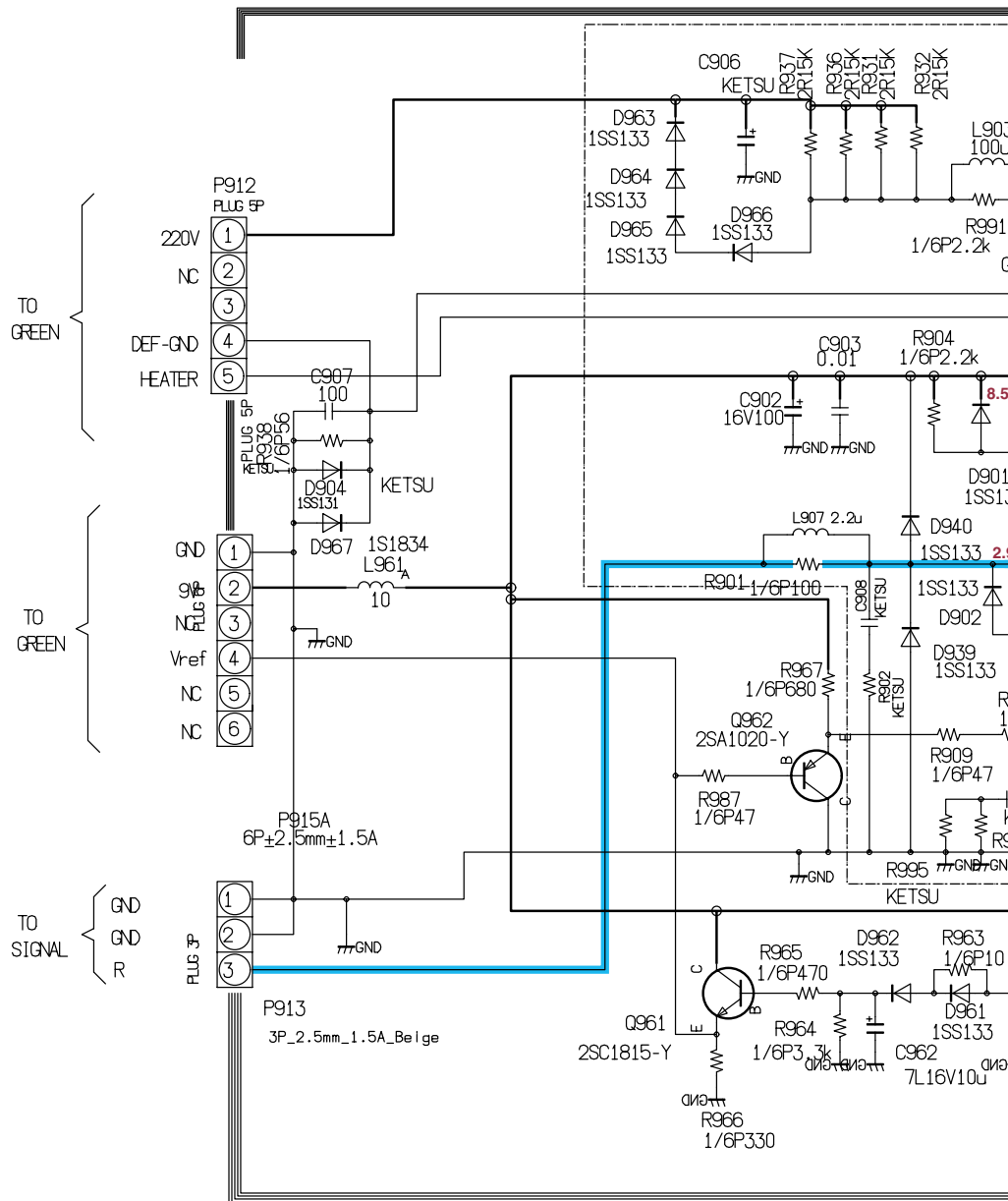


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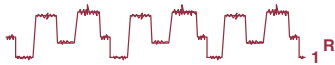
B

C

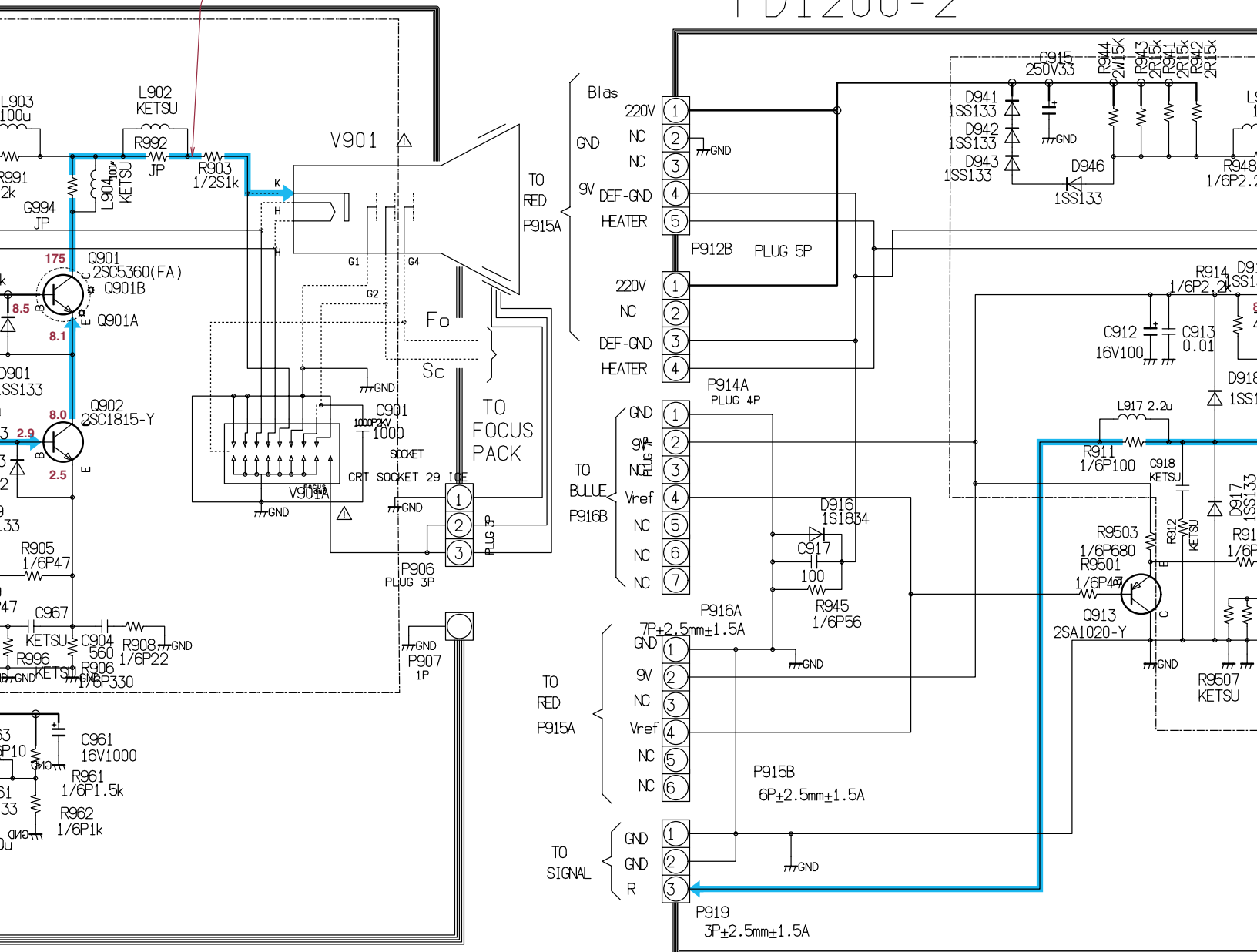
D



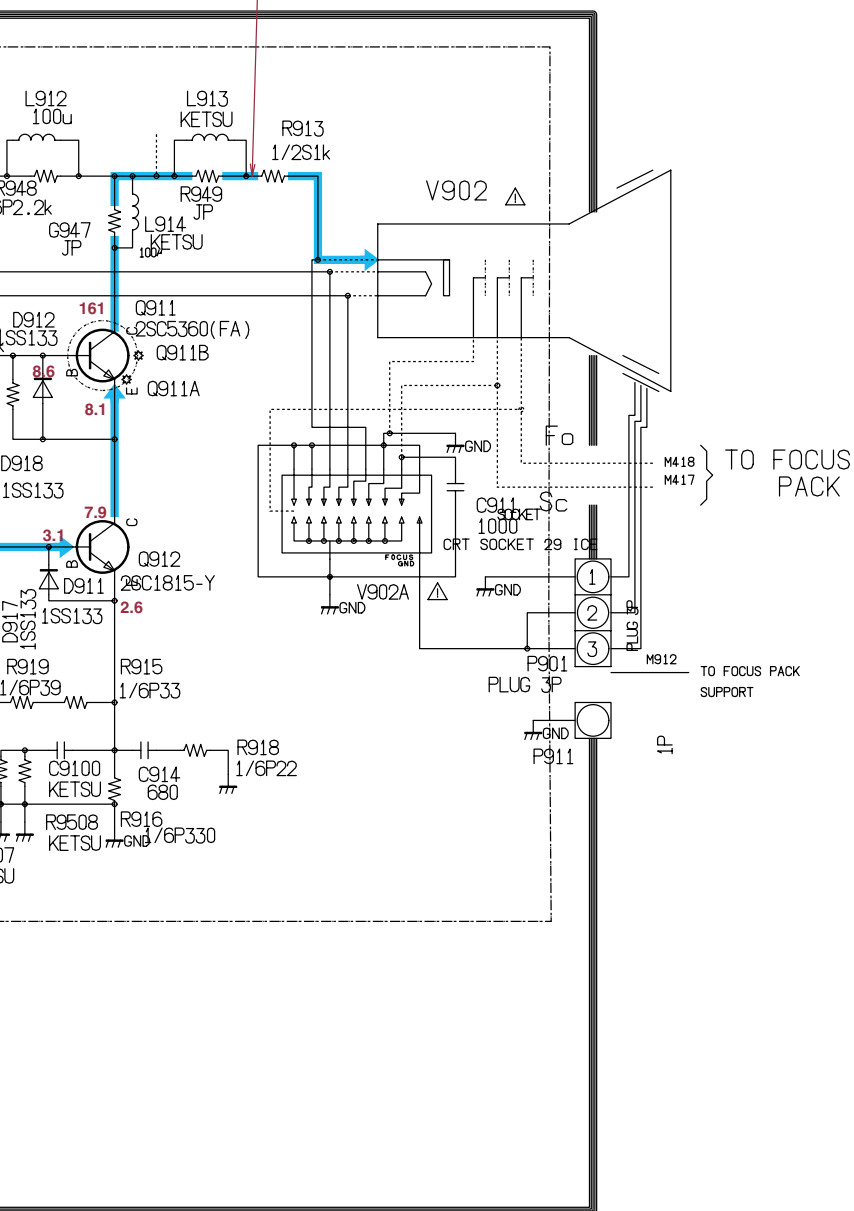
1
20^μs/DIV.
2V/DIV.
R



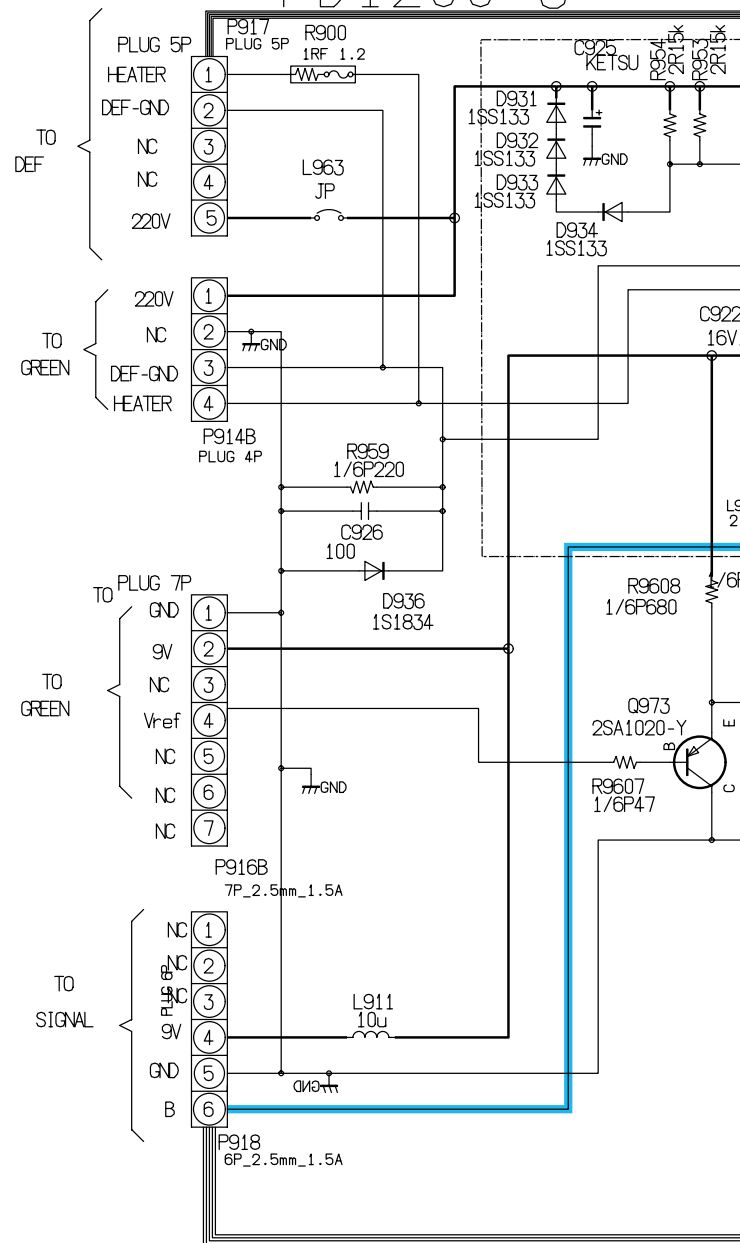
CRT-D/G PD1200-2



20^μs/DIV.
2V/DIV.
G



CRT-D/B PD1200-3

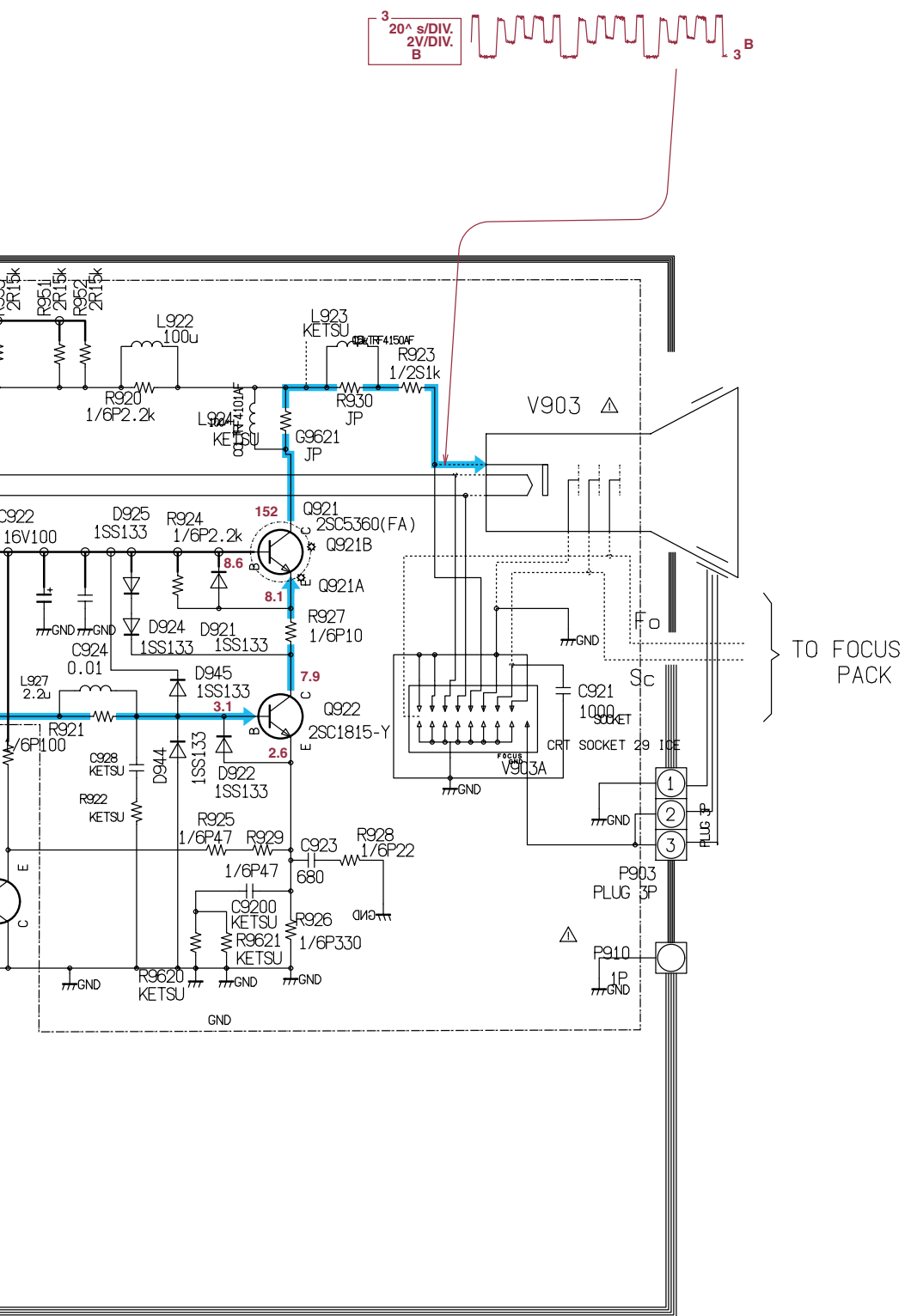


A

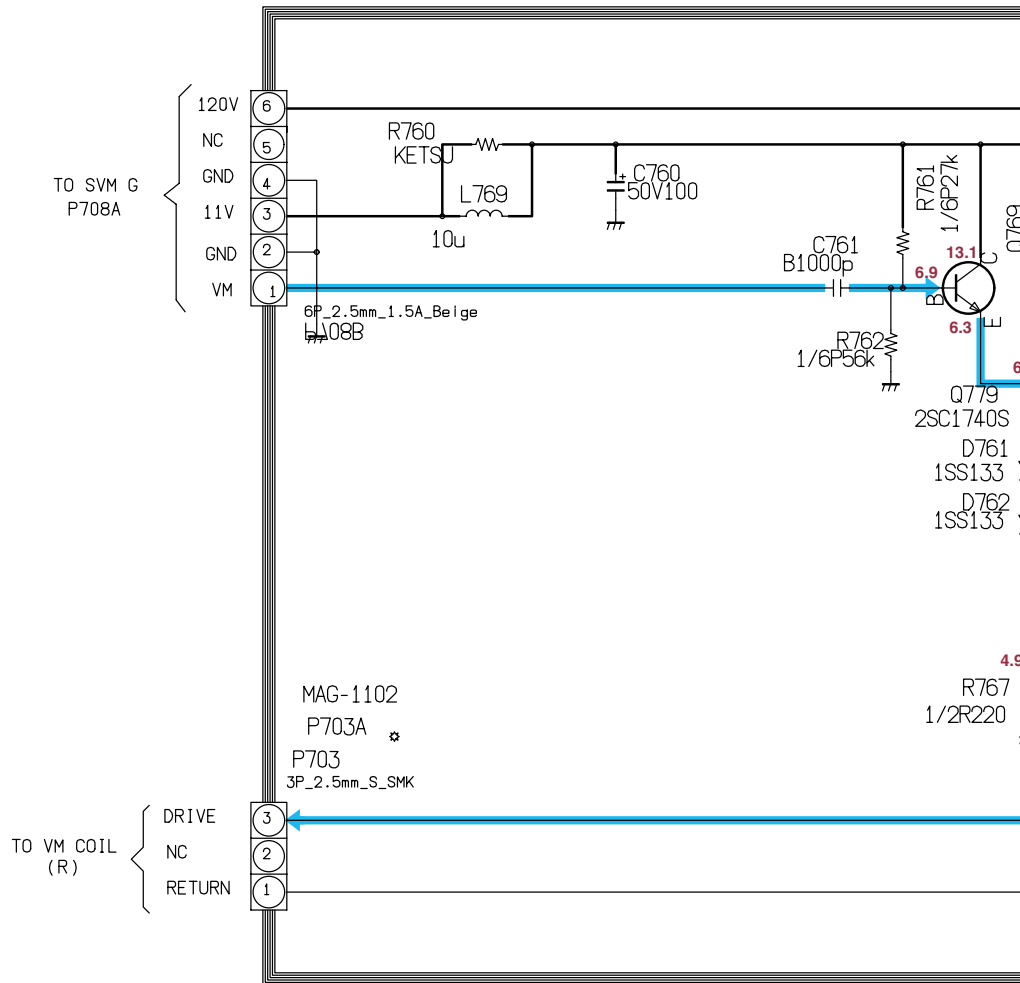
B

C

D



SVM/R
PD1200-4

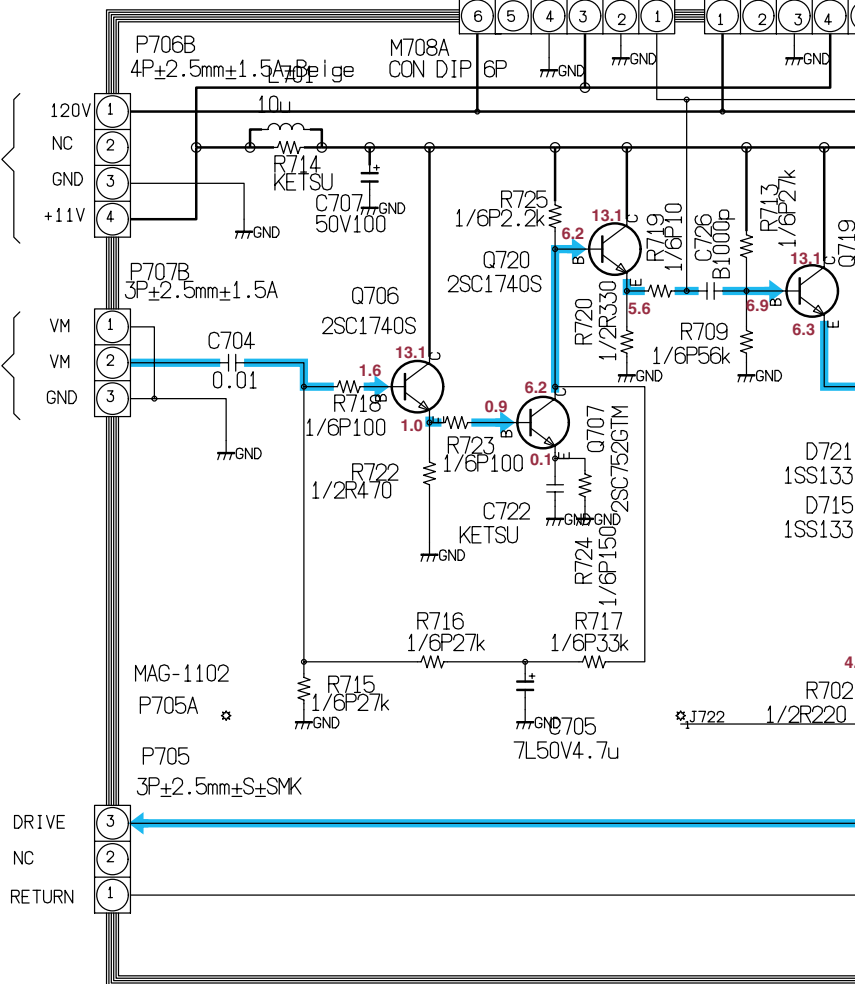
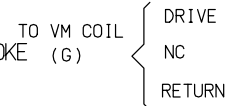
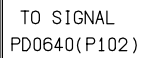
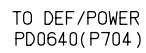


TO SVM R
P708B

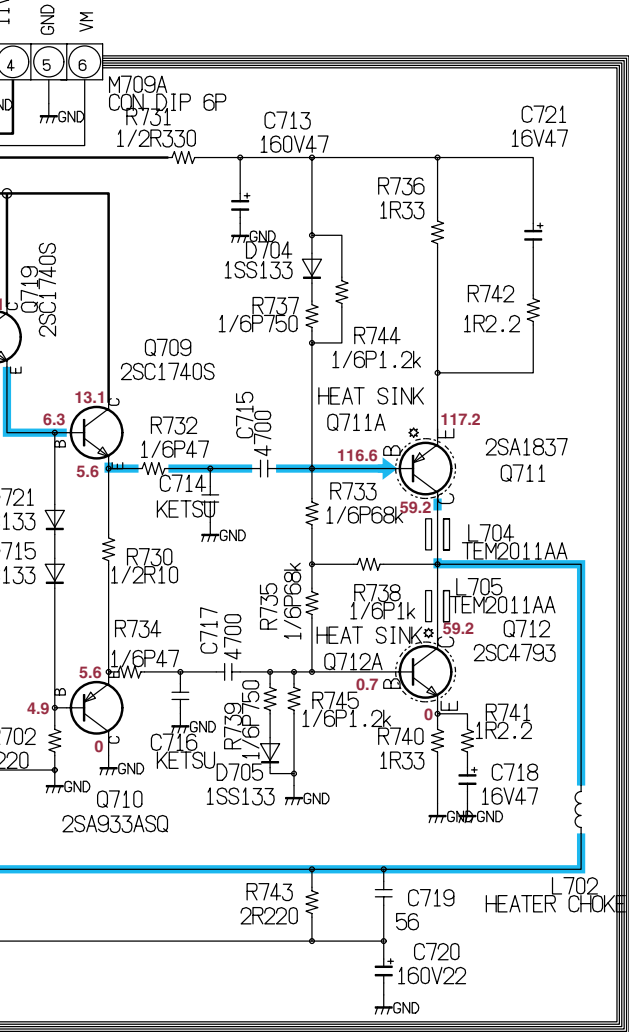
120V NC GND 11V GND VM

TO SVM B
P709B

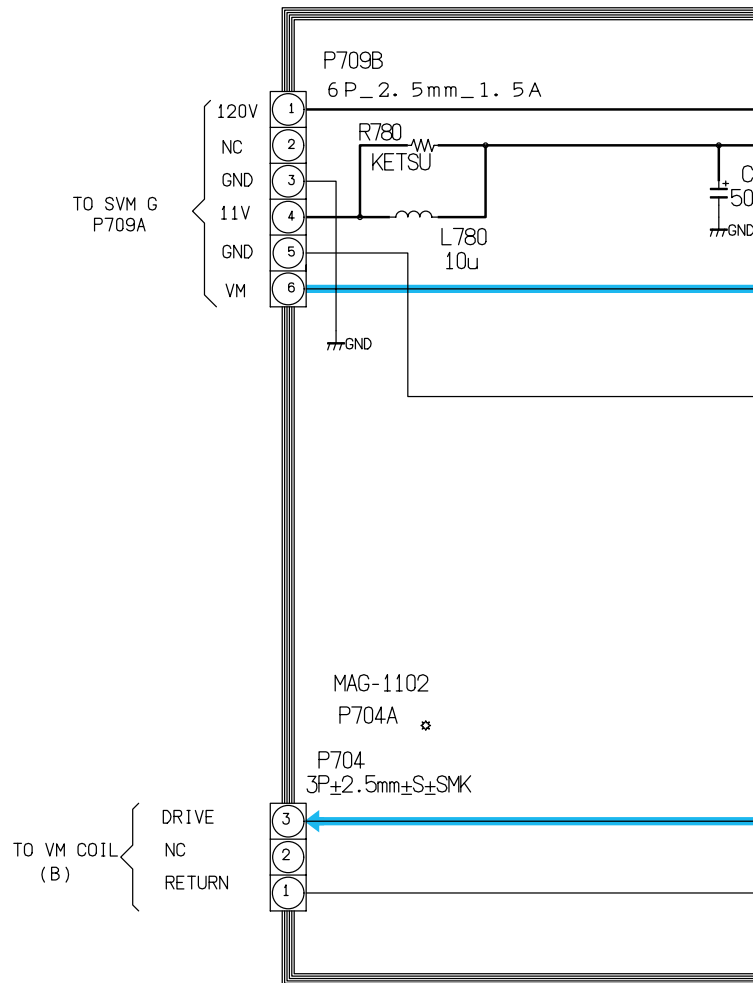
120V NC GND 11V

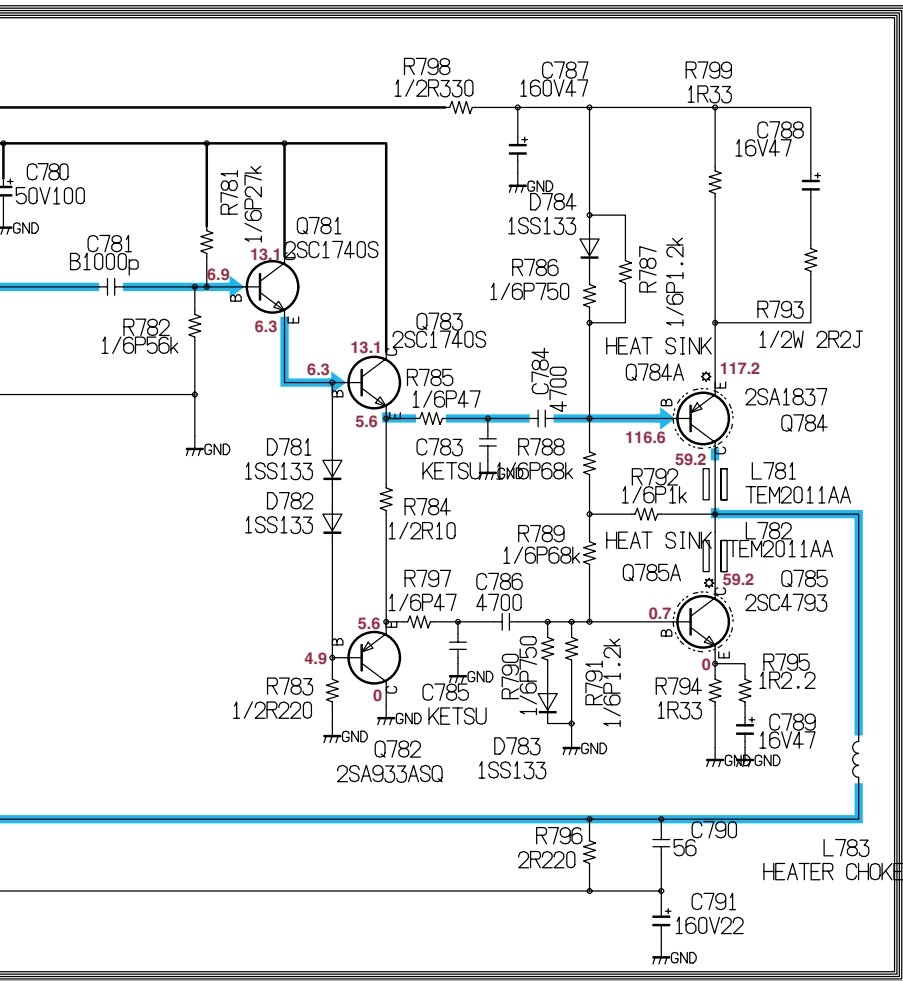


B
3

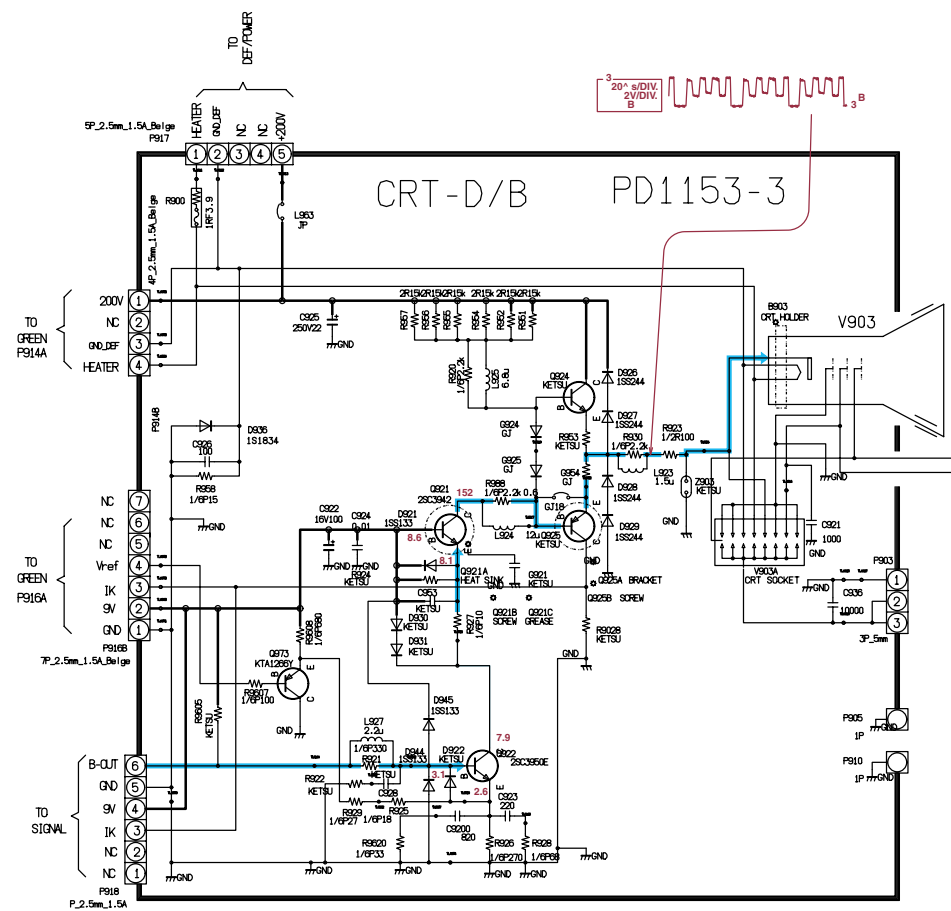
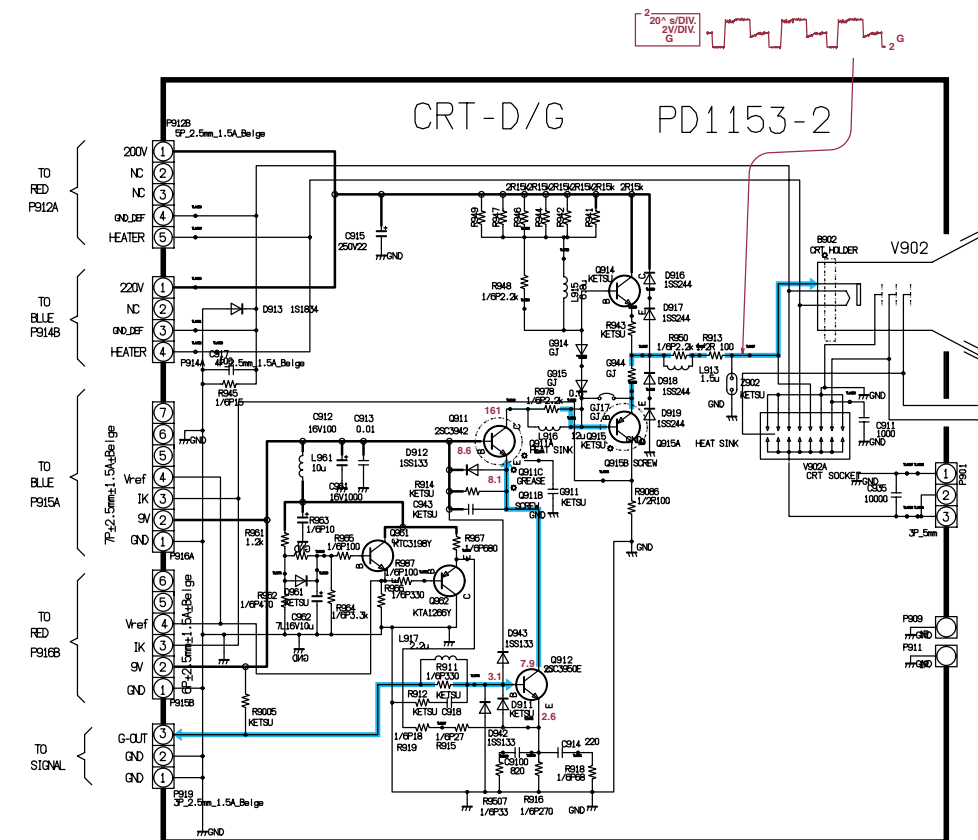
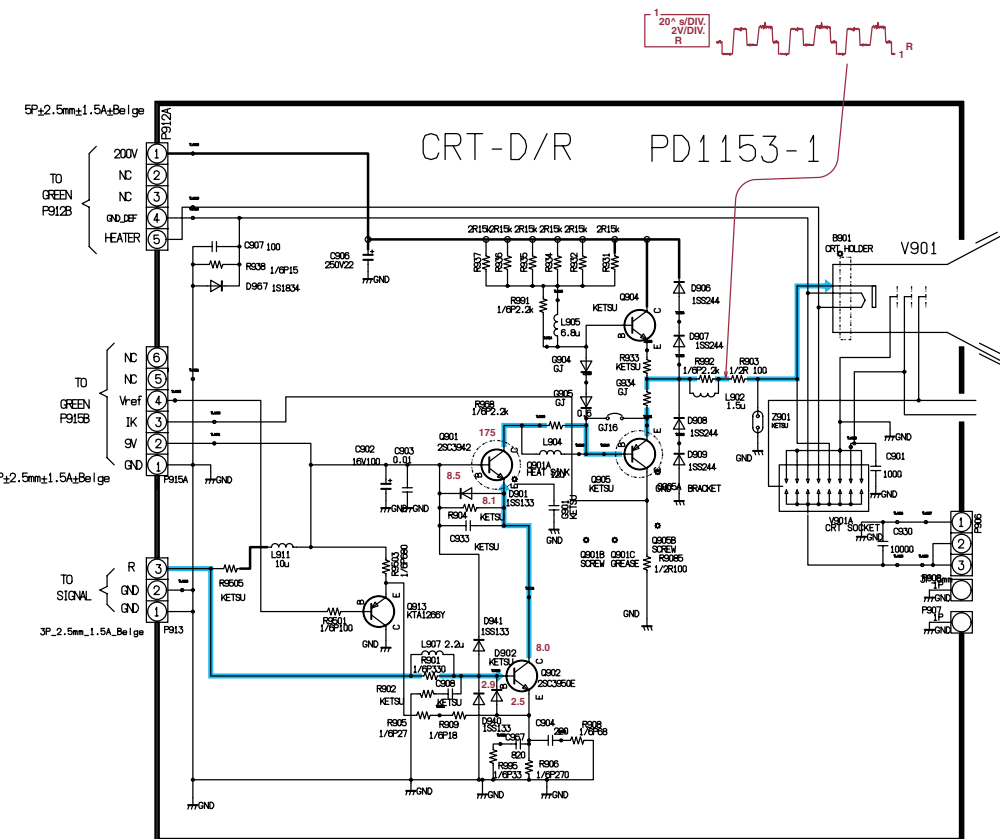


SVM/B
PD1200-6





51H83
CRT/SVM



CRT-D/G

PD1153-2

A

B

C

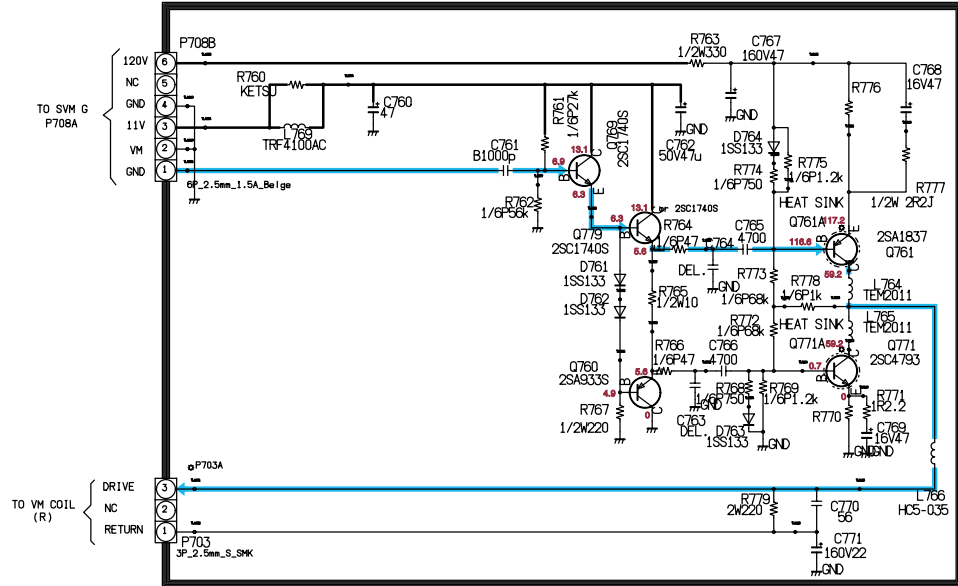
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E

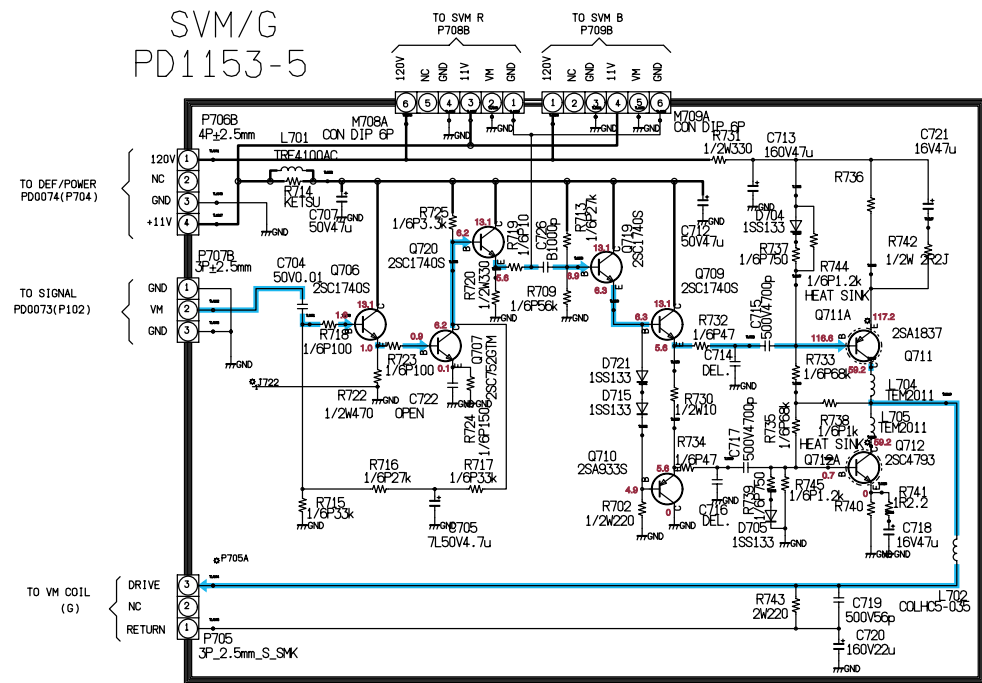
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57H83/65H83
CRTSVM - CRT-DRIVE
[SHEET-1/2]

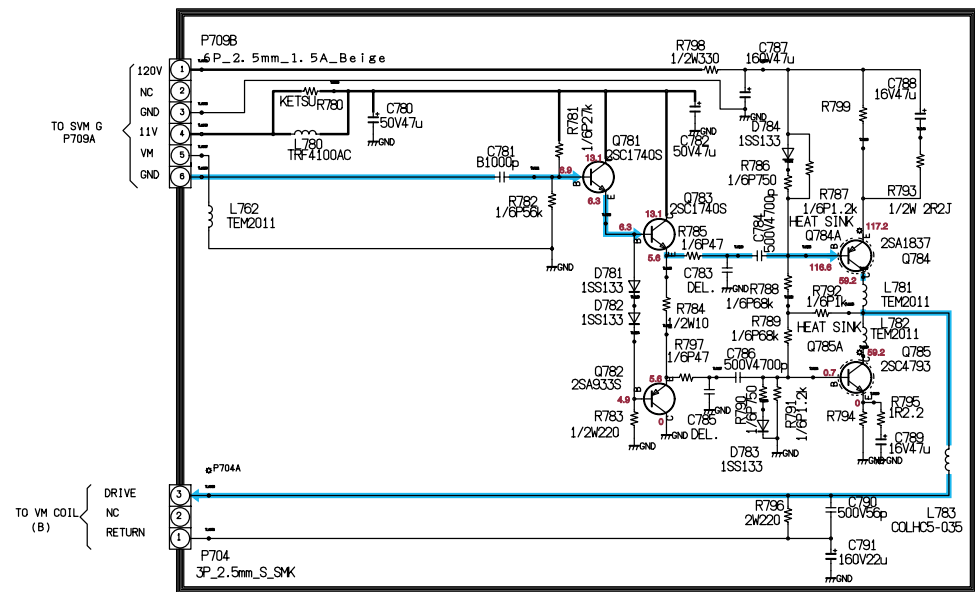
SVM/R
PD1153-4



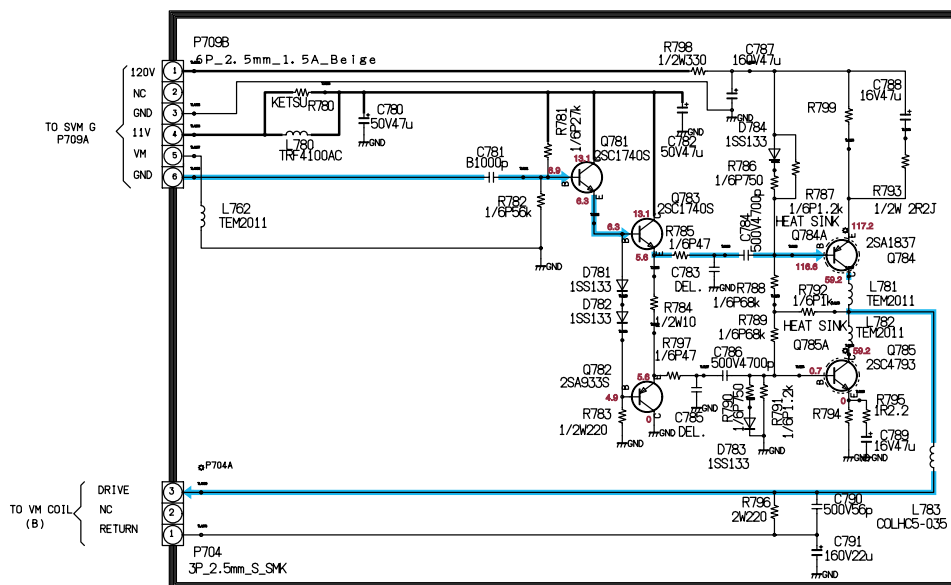
SVM/G
PD1153-5



SVM/B
PD1153-6



SVM/B
PD1153-6

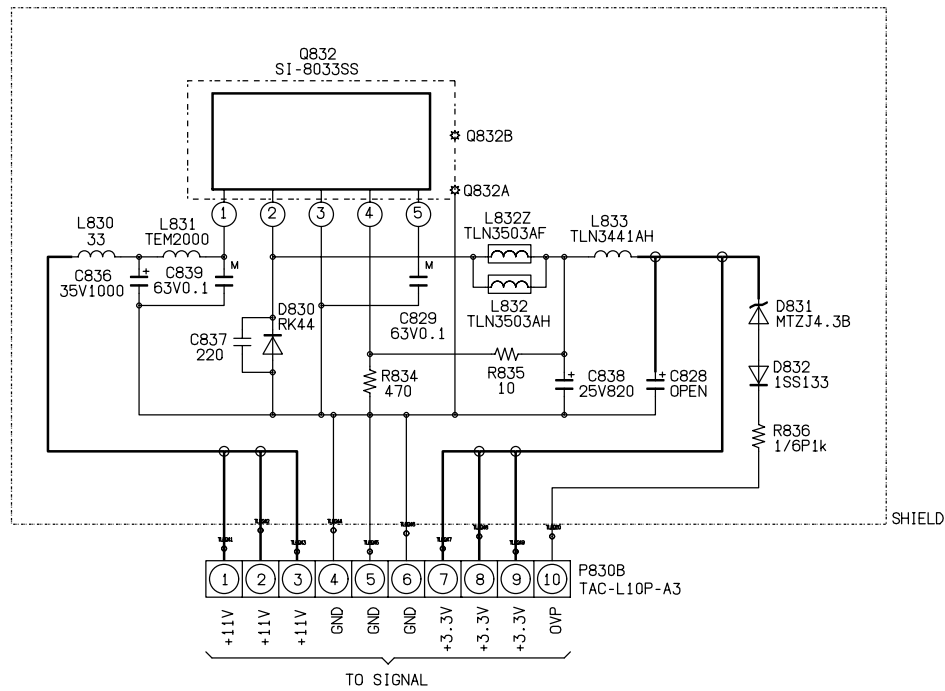


A

A

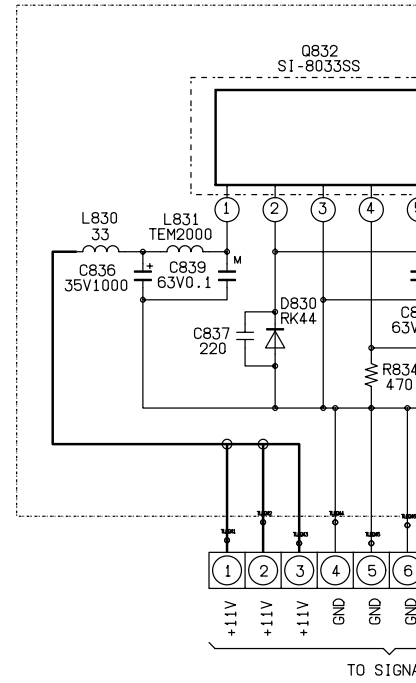
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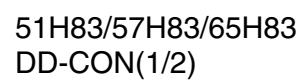
B



A

B





1

2

A

A



B

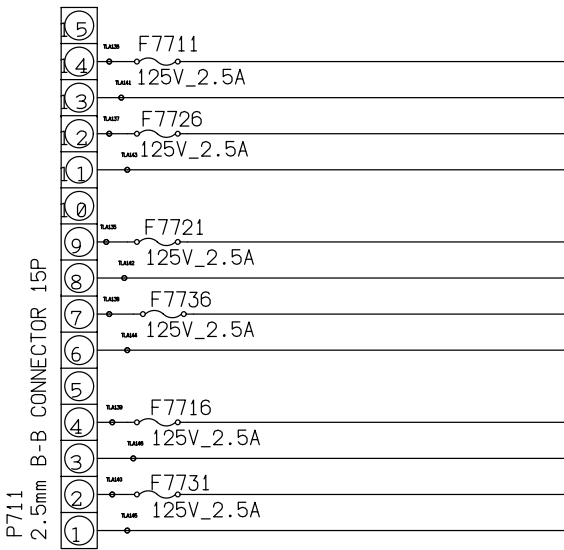
B

1

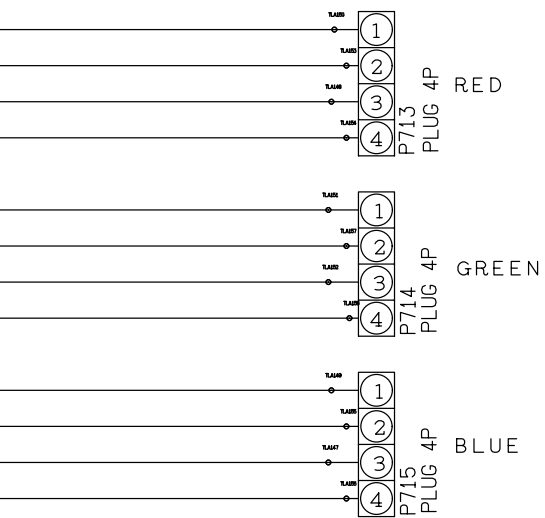
2

A

B



A



B

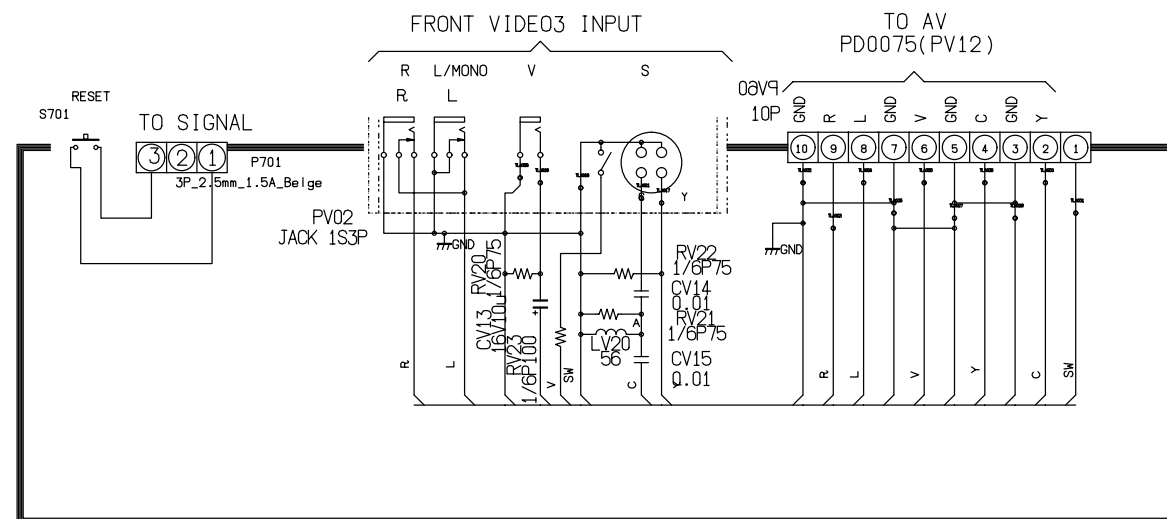
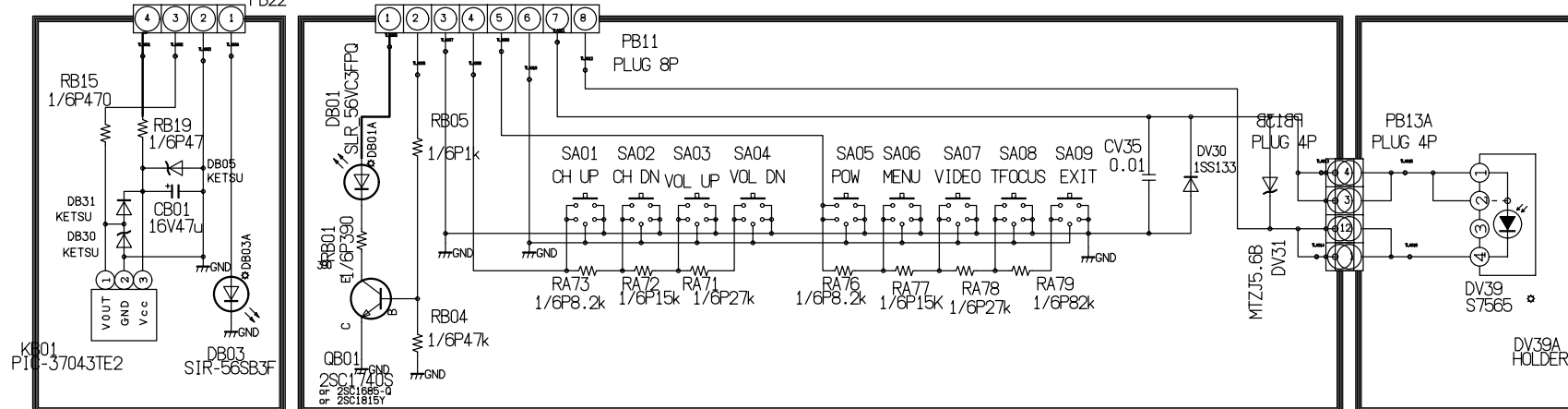
51H83/57H83/65H83
CONVER-OUT(2/2)

REMOTE TO SIGNAL/CONVER PD0639(P112) 4P_2.5mm PB22

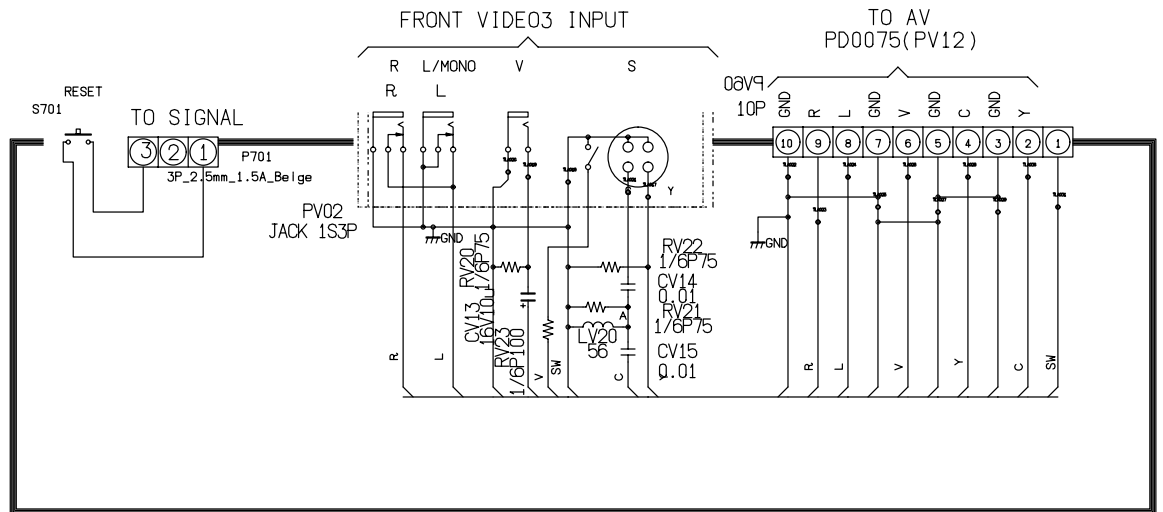
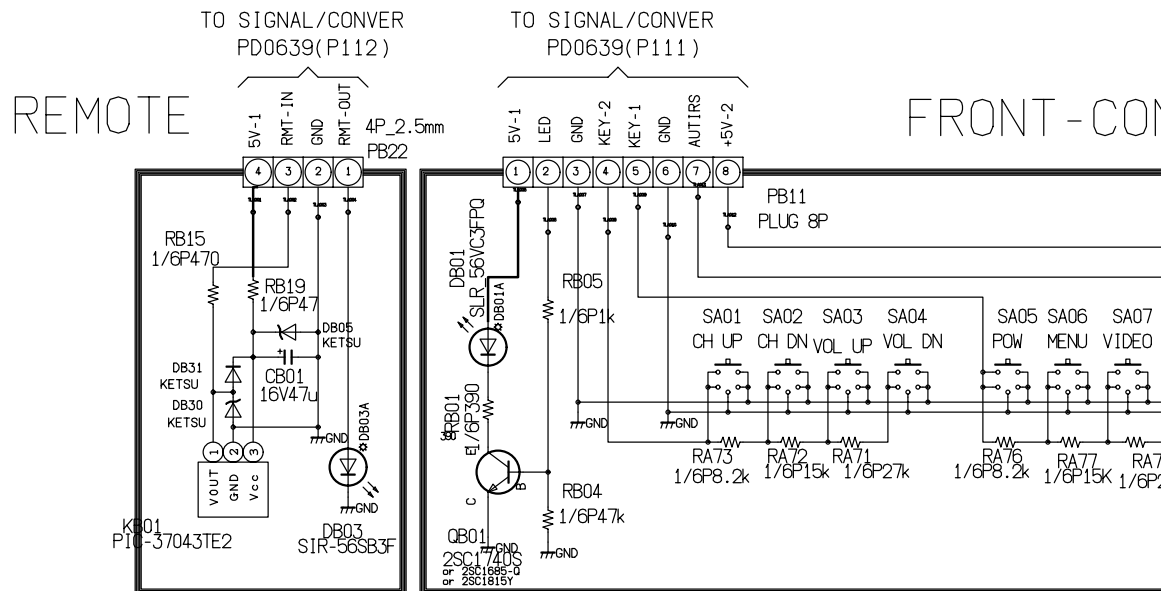
TO SIGNAL/CONVER PD0639(P111)

FRONT-CONTROL

ALS (Ambient Light Sensor)



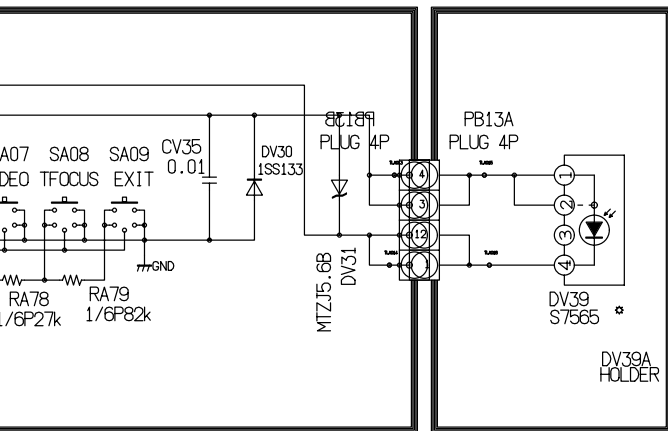
FRONT-IN



FRONT-IN

CONTROL

ALS
(Ambient Light Sensor)



A

B

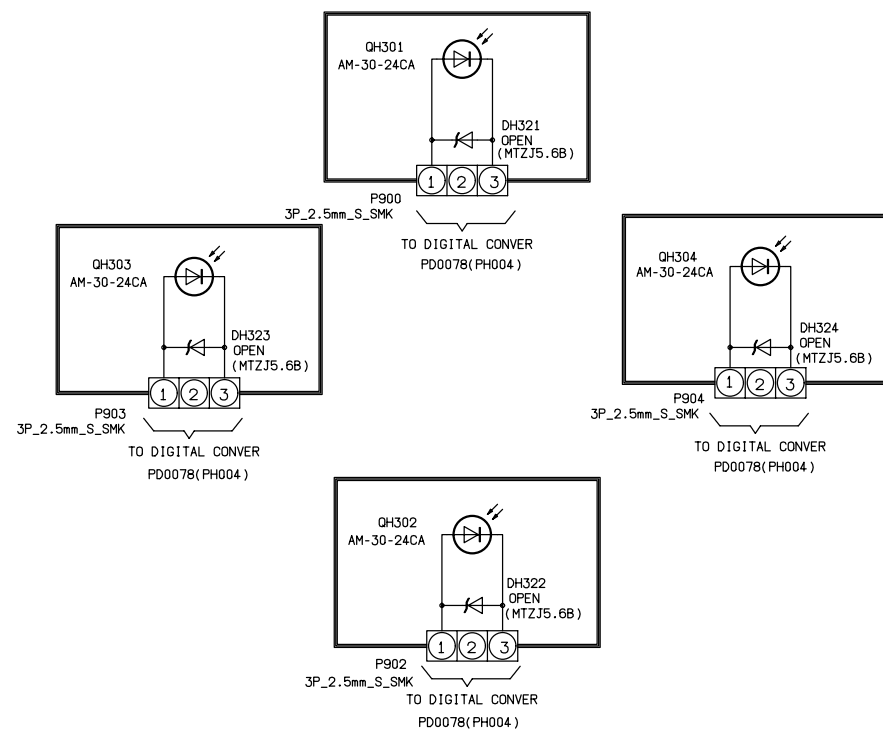
51H83/57H83/65H83
FRONT

1

2

A

A



B

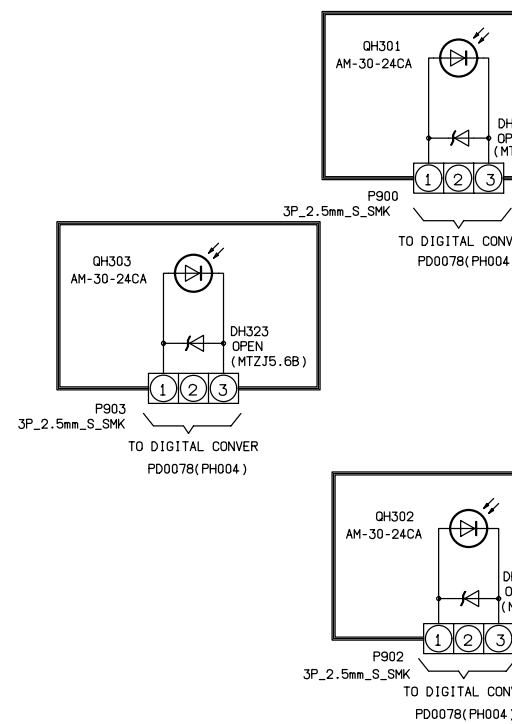
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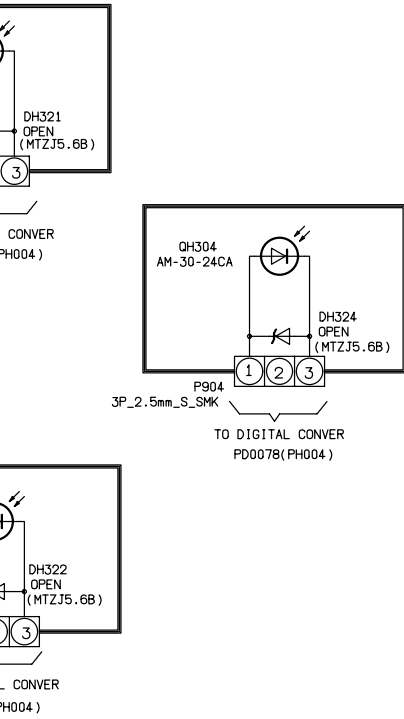
1

2

A

B





A

B

51H83/57H83/65H83
T.FOCUS-SENSOR

A

B

C

D

E

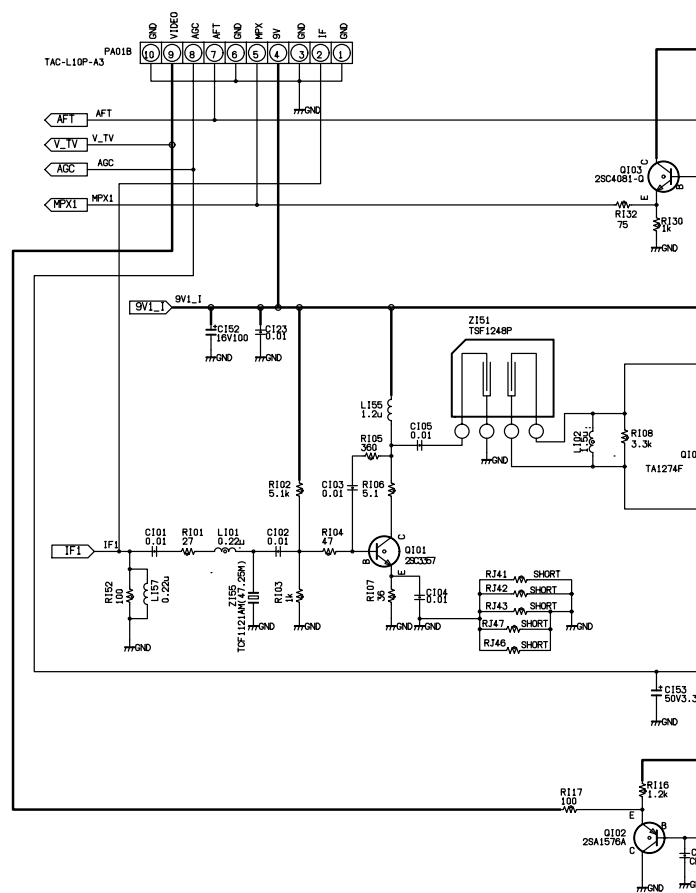
F

1

2

3

4



5

6

7

8

A

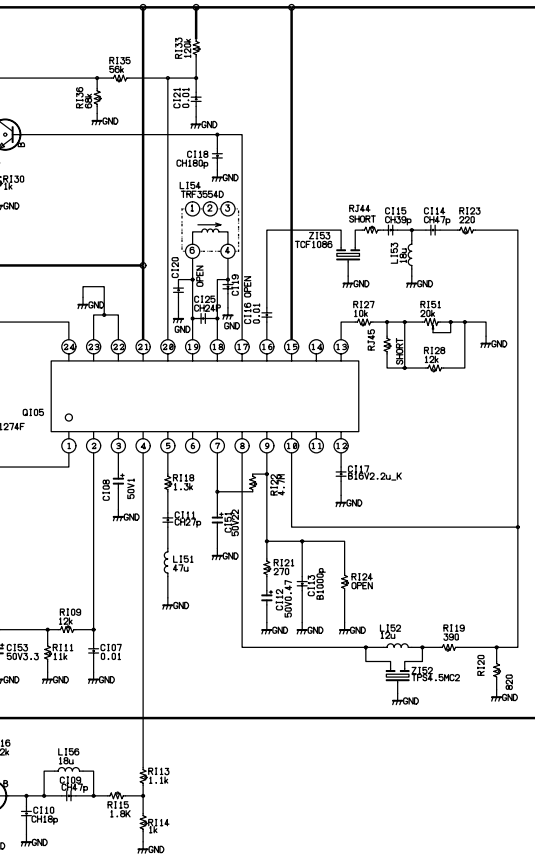
B

C

D

E

F



51H83/57H83/65H83
IF

5

6

7

8