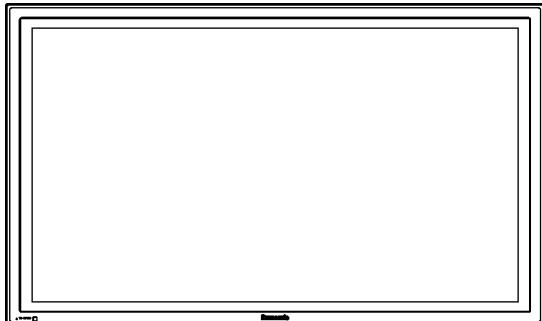


Service Manual

High Definition Plasma Display



**TH-42PHD8BK
TH-42PHD8BS
TH-42PHD8EK
TH-42PHD8ES**
GPH8D Chassis

Specifications

Power Source	220 - 240 V AC, 50/60 Hz	
Power Consumption		
Normal use	295 W	
Stand-by condition	Save off 0.8 W, Save on 0.6 W (42 inch)	
Power off condition	0.3 W (42 inch)	
Plasma Display panel	Drive method: AC type 42-inch, 16:9 aspect ratio	
Contrast Ratio	3000:1	
Screen size	920 mm (W) × 518 mm (H) × 1,056 mm (diagonal)	
(No. of pixels)	786,432 (1,024 (W) × 768 (H)) [3,072 × 768 dots]	
Operating condition		
Temperature	32 °F - 104 °F (0 °C - 40 °C)	
Humidity	20 % - 80 %	
Applicable signals		
Color System	NTSC, PAL, PAL60, SECAM, Modified NTSC	
Scanning format	525 (480) / 60i • 60p, 625 (575) / 50i • 50p, 750 (720) / 60p • 50p, 1125 (1080) / 60i • 50i • 24p • 25p • 30p • 24sF SMPTE274M, 1250 (1080) / 50i	
PC signals	VGA, SVGA, XGA SXGA, UXGA (compressed) Horizontal scanning frequency 15 - 110 kHz Vertical scanning frequency 48 - 120 Hz	
Connection terminals		
AV	VIDEO IN / OUT (BNC) S VIDEO IN (MINI DIN 4PIN) AUDIO IN (RCA PIN JACK × 2)	1.0 Vp-p (75-ohm or high impedance) Y: 1 Vp-p (75-ohm), C: 0.286 Vp-p (75-ohm) 0.5 Vrms (high impedance)
PC	(HIGH-DENSITY Mini-D-SUB 15PIN) AUDIO IN (M3 JACK)	R,G,B / 0.7 Vp-p (75-ohm) HD, VD / 1.0 - 5.0 Vp-p (high impedance) 0.5 Vrms (high impedance)
SERIAL	EXTERNAL CONTROL TERMINAL (D-SUB 9PIN)	RS-232C COMPATIBLE

Panasonic®

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SPEAKERS (6Ω)	16 W [8 W + 8 W] (10 % THD)
Accessories Supplied	
Remote Control Transmitter	EUR7636070R or EUR7636090R
Batteries	2 × R6 Size
Fixing bands	(TMME203 or TMME187) × 2
Dimensions (W × H × D)	1,020 mm × 610 mm × 89 mm (exclusive of protruding portion)
Mass (weight)	
main unit only	approx. 31.5 kg net
with speakers	approx. 35.5 kg

Notes:

- Design and specifications are subject to change without notice. Mass and dimensions shown are approximate.
- This equipment complies with the EMC standards listed below. EN55022, EN55024, EN61000-3-2, EN61000-3-3.

 **WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 Applicable signals

VIDEO input

	Signal name	Horizontal frequency(kHz)	Vertical frequency(Hz)
1	NTSC	15.73	59.94
2	PAL	15.63	50.00
3	PAL60	15.73	59.94
4	SECAM	15.63	50.00
5	Modified NTSC	15.73	59.94

Applicable input signals for Component / Mini D-sub 15P (Component) / RGB / Mini D-sub 15P (RGB) (* Mark)

	Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)	Component / Mini D-sub 15P (Component)	RGB / Mini D-sub 15P (RGB)
1	525 (480) / 60i	15.73	59.94	*	*
2	525 (480) / 60p	31.47	59.94	*	*1
3	625 (575) / 50i	15.63	50.00	*	*
4	625 (575) / 50p	31.25	50.00	*	*
5	750 (720) / 60p	45.00	60.00	*	*
6	750 (720) / 50p	37.50	50.00	*	*
7	1,125 (1,080) / 60i	33.75	60.00	*	*
8	1,125 (1,080) / 50i	28.13	50.00	*	*
9	1,125 (1,080) / 24p	27.00	47.92	*	*
10	1,125 (1,080) / 24sF	33.75	30.00	*	*
11	1,125 (1,080) / 25p	28.13	25.00	*	*
12	1,125 (1,080) / 30p	27.00	24.00	*	*
13	1,250 (1,080) / 50i	31.25	50.00	*	*
14	640 × 400 @70 Hz	31.46	70.07		*
15	640 × 480 @60 Hz	31.47	59.94		*2
16	640 × 480 @72 Hz	37.86	72.81		*
17	640 × 480 @75 Hz	37.50	75.00		*
18	640 × 480 @85 Hz	43.27	85.01		*
19	852 × 480 @60 Hz	31.47	59.94		*2
20	800 × 600 @56 Hz	35.16	56.25		*
21	800 × 600 @60 Hz	37.88	60.32		*
22	800 × 600 @72 Hz	48.08	72.19		*
23	800 × 600 @75 Hz	46.88	75.00		*
24	800 × 600 @85 Hz	53.67	85.06		*
25	1,024 × 768 @60 Hz	48.36	60.00		*
26	1,024 × 768 @70 Hz	56.48	70.07		*
27	1,024 × 768 @75 Hz	60.02	75.03		*
28	1,024 × 768 @85 Hz	68.68	85.00		*
29	1,152 × 864 @75 Hz	67.50	75.00		*
30	1,280 × 960 @60 Hz	60.00	60.00		*
31	1,280 × 960 @85 Hz	85.94	85.00		*
32	1,280 × 1,024 @60 Hz	63.98	60.02		*
33	1,280 × 1,024 @75 Hz	79.98	75.03		*
34	1,280 × 1,024 @85 Hz	91.15	85.02		*
35	1,600 × 1,200 @60 Hz	75.00	60.00		*
36	1,600 × 1,200 @65 Hz	81.25	65.00		*
37	1,066 × 600 @60 Hz	37.88	60.32		*
38	1,366 × 768 @60 Hz	48.36	60.00		*
39	Macintosh13" (640 × 480)	35.00	66.67		*
40	Macintosh16" (832 × 624)	49.72	74.54		*
41	Macintosh21" (1,152 × 870)	68.68	75.06		*

*1: When selected the RGB format and 525p signal input to the Mini D-sub 15P terminal, it is recognized as VGA 60Hz signal.

*2: When inputted VGA 60Hz format signal from the other than Mini D-sub 15P terminal, it is recognized as 525p signal.

Note: Signals without above specification may not be displayed properly.

2 Safety Precautions

2.1. General Guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

2.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between $1M\Omega$ and $5.2M\Omega$.
When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

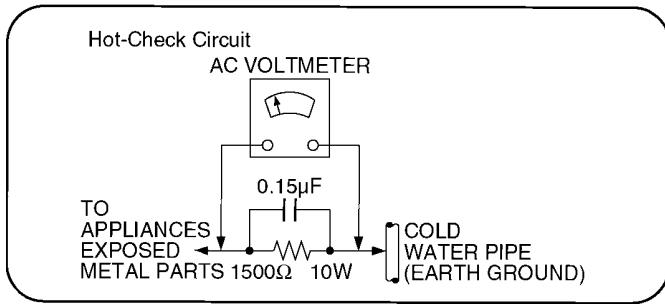


Figure 1

2.1.2. Leakage Current Hot Check (See Figure 1.)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a $1.5k\Omega$, 10 watts resistor, in parallel with a $0.15\mu F$ capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

3 Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety.

These parts are marked by Δ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

4 About lead free solder (PbF)

Note: Lead is listed as (Pb) in the periodic table of elements.

In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.

The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).

That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

This model uses Pb Free solder in it's manufacture due to environmental conservation issues. For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.

PCBs manufactured using lead free solder will have the PbF within a leaf Symbol  stamped on the back of PCB.

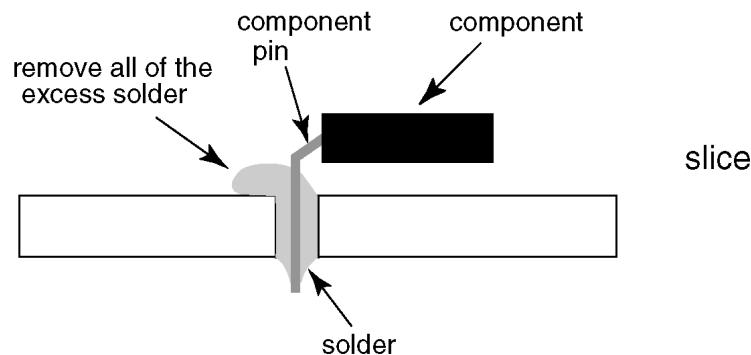
Caution

- Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 °F (30~40 °C) higher. Please use a high temperature soldering iron and set it to 700 ± 20 °F (370 ± 10 °C).

- Pb free solder will tend to splash when heated too high (about 1100 °F or 600 °C).

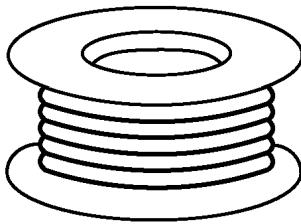
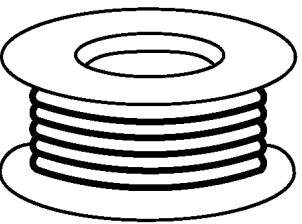
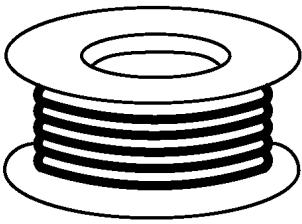
If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.

- After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)



Suggested Pb free solder

There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also be used.

0.3mm X 100g	0.6mm X 100g	1.0mm X 100g
		

5 PCB Structure sheet of GPH8D chassis

Board Name	Function	Remarks
D	Digital Signal Processor, Format Coverter, Plasma Ai Processor	*1
J	Slot Interface (Audio/Video/Sync input Switch), SYNC processor, Audio processor, Speaker out amplifier, DC-DC converter	*1
SS	Sustain drive	*1
SC	Scan drive	*1
SU	Scan out (Upper)	*1
SD	Scan out (Lower)	*1
C1	Data Drive (Upper Right)	
C2	Data Drive (Upper Center)	
C3	Data Drive (Upper Left)	
C4	Data Drive (Lower Left)	
C5	Data Drive (Lower Center)	
C6	Data Drive (Lower Right)	
H3	Speaker terminal	
S1	Power switch	
SS2	Sustain out (Upper)	
SS3	Sustain out (Lower)	
V1	LED (stand-by / Power on) & Remote receiver	*1
V2	Key switch	*1
PB	Fan control	*1
P	Line filter, Power supply	*1
HX	PC / RS-232C	
HB	BNC Composite Video	

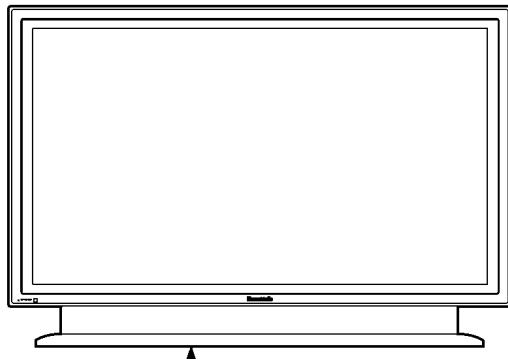
Remarks

*1: Recommend PCB's for initial service for GPH8D chassis.

6 Service Hint

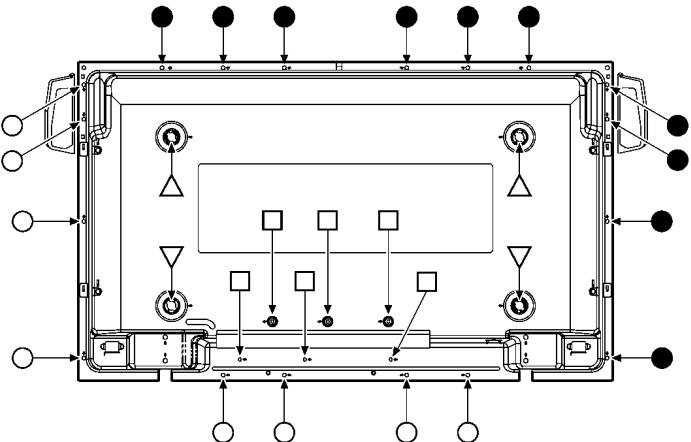
[How to set the plasma unit for servicing]

Place the plasma unit on the pedestal stand.
(Optional Accessory)



Pedestal Stand

Remove the Back Cover

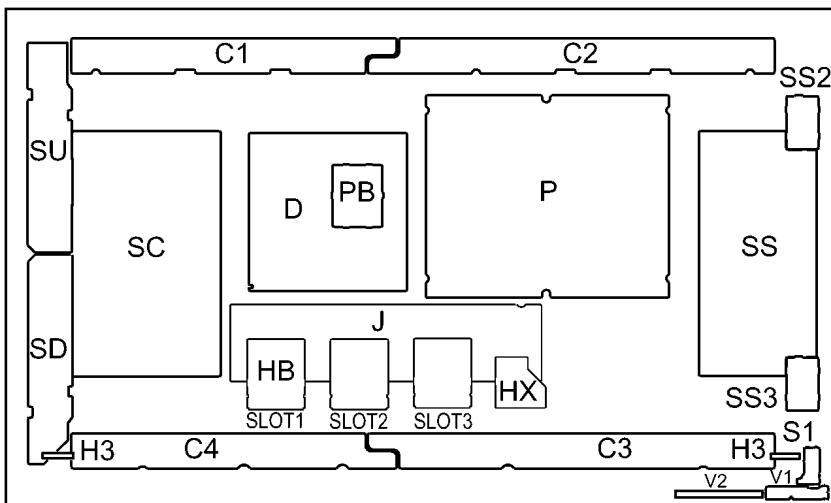


Remove : 4 screws (Δ) XYN8+F20FJK

6 screws (\square) THEL0239

8 screws (O) XYC4+FJ35FJK

10 screws (\bullet) THEL0439



P.C. Boards Location

Note:

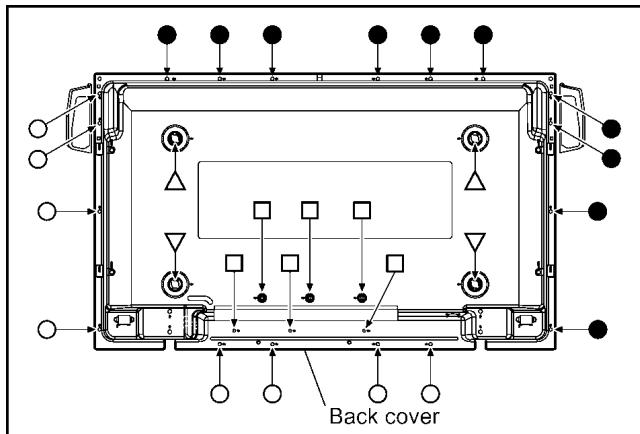
- Extension cable kit Slot Board is supplied as service fixtures and tools.
(Parts No. TZSC07040)

7 Disassembly

- To disassemble P.C.B. , wait for 1 minute after power was off for discharge from electrolysis capacitors.
- ▲ and △ marks indicate screw positions.

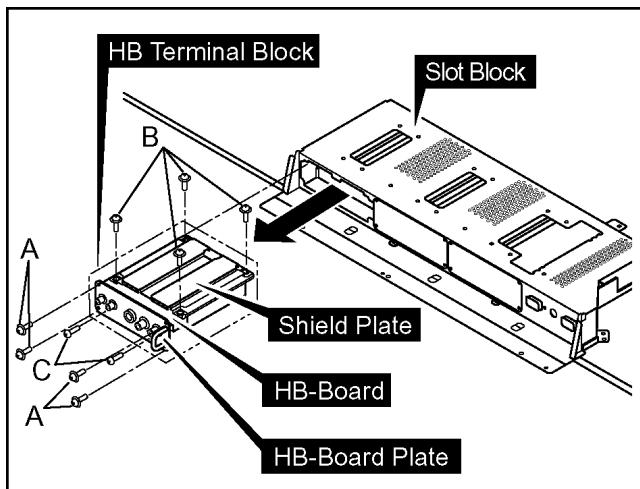
7.1. Removal of the Back Cover

- Remove the screws (x8 ○, x4 △, x6 □, x10 ●) and then remove the Back Cover.



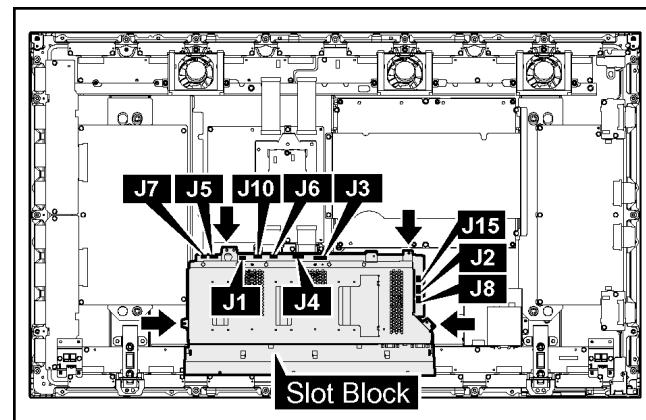
7.2. Removal of the HB-Board

- Remove the 4 screws(A) and then remove the HB Terminal Block.
- Remove the 4 screws(B).
- Remove the 2 screws(C) and then remove the HB-Board.



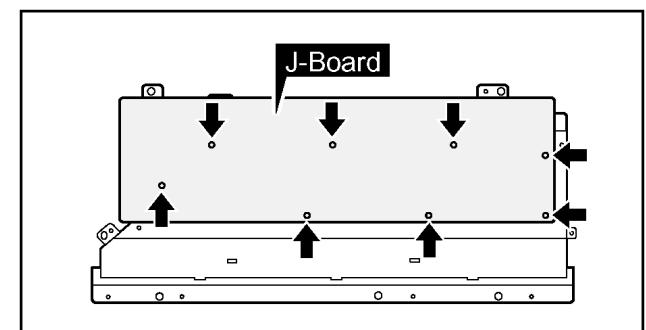
7.3. Removal of the Slot Block

- Disconnect the couplers (J1, J2, J3, J4, J5, J6, J7, J8, J10, J15).
- Remove the 4 screws and then remove the Slot Block.



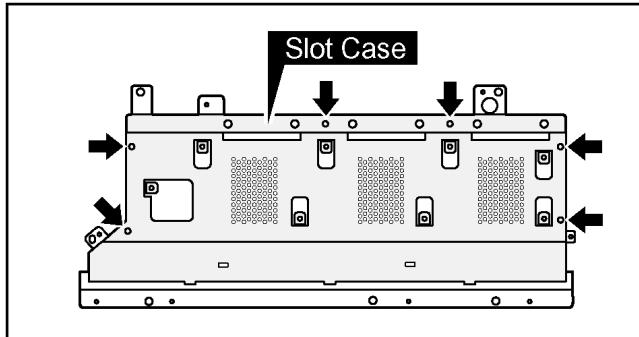
7.4. Removal of the J-Board

- Remove the HA Terminal Block and the HB Terminal Block.
(Reference to Removal of the HA-Board and the HB-Board)
- Remove the Slot Block.
(Reference to Removal of the Slot Block)
- Remove the 8 screws and then remove the J-Board.

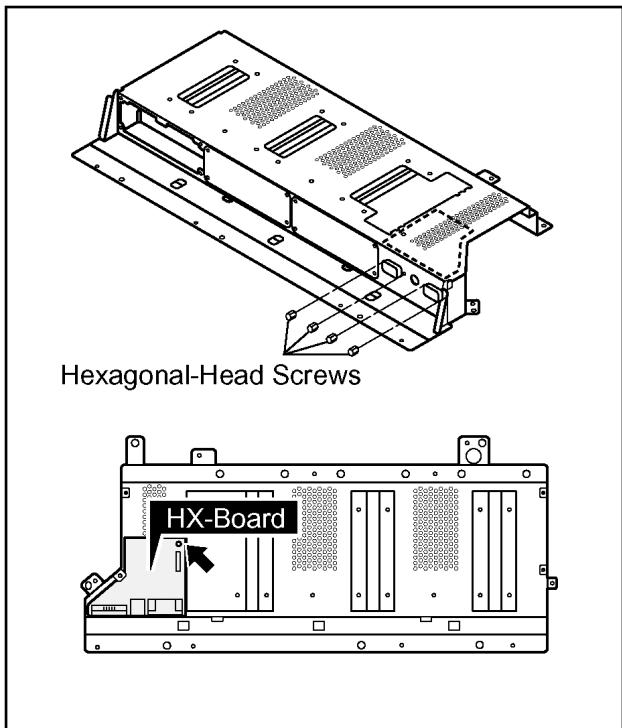


7.5. Removal of the HX-Board

1. Remove the HA Terminal Block and the HB Terminal Block.
(Reference to Removal of the HA-Board and the HB-Board)
2. Remove the Slot Block.
(Reference to Removal of the Slot Block)
3. Remove the J-Board.
(Reference to Removal of the J-Board)
4. Remove the 6 screws and then remove the Slot Case.

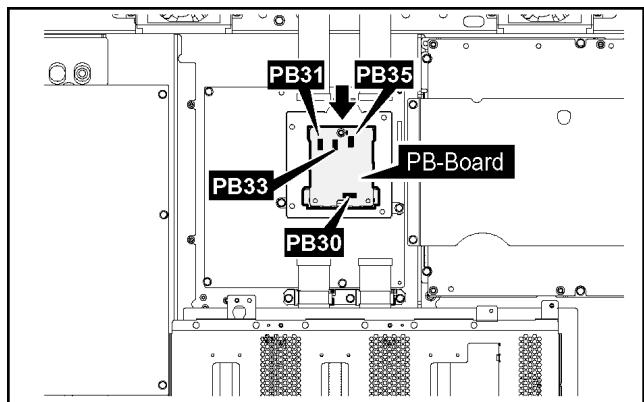


5. Remove the 4 Hexagonal-Head screws and the 1 screw and then remove the HX-Board.



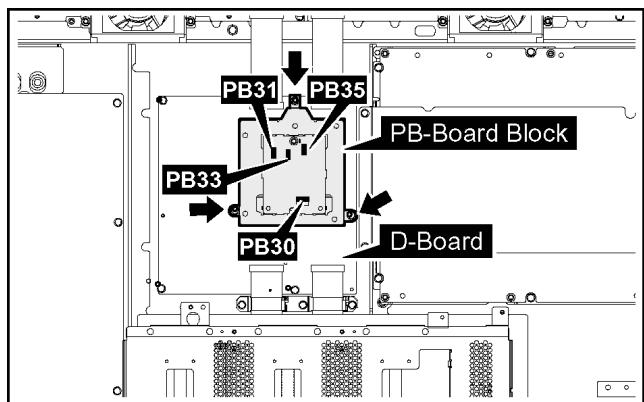
7.6. Removal of the PB-Board

1. Disconnect the couplers(PB30, PB31, PB33, PB35)
2. Remove the 1 screw and then remove the PB-Board.

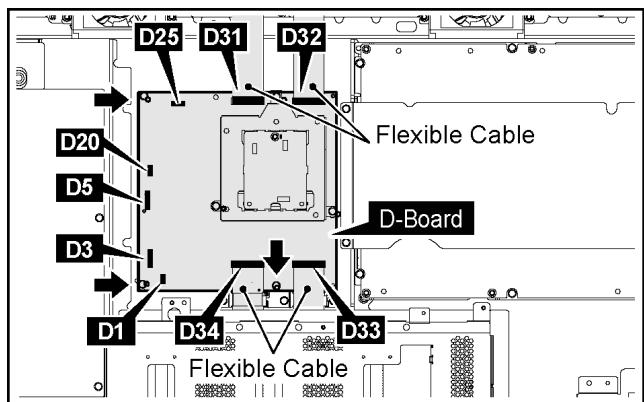


7.7. Removal of the D-Board

1. Disconnect the couplers(PB30, PB31, PB33, PB35).
2. Remove the 3 screws and then remove the PB-Board Block.

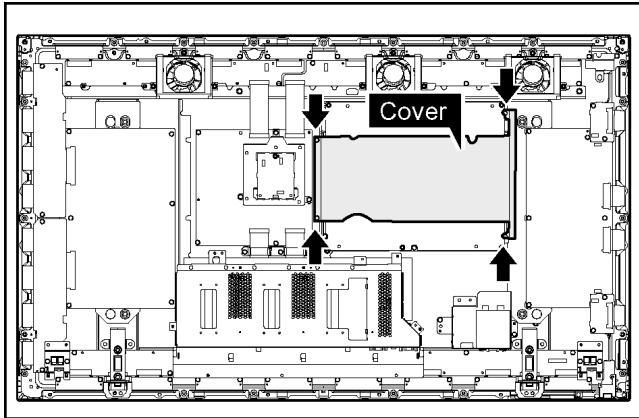


3. Disconnect the couplers(D1, D3, D5, D20, D25).
4. Remove the Flexible Cable from the couplers (D31, D32, D33, D34).
5. Remove the 3 screws and then remove the D-Board.

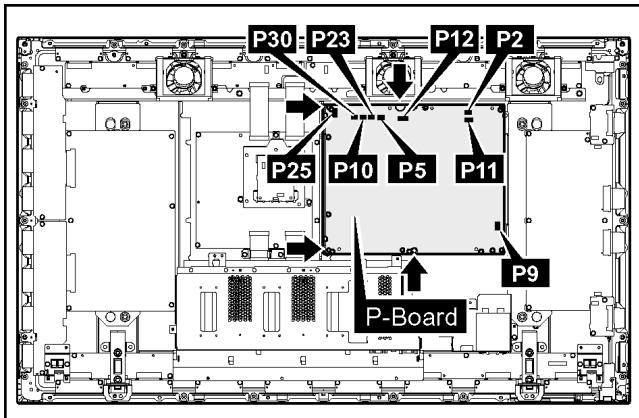


7.8. Removal of the P-Board

1. Remove the 4 screws and then remove the Cover.

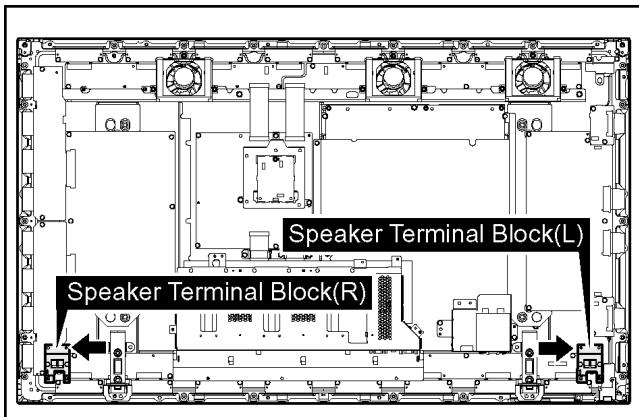


2. Disconnect the couplers(P2, P5, P9, P10, P11, P12, P23, P25, P30).
3. Remove the 4 screws and then remove the P-Board.

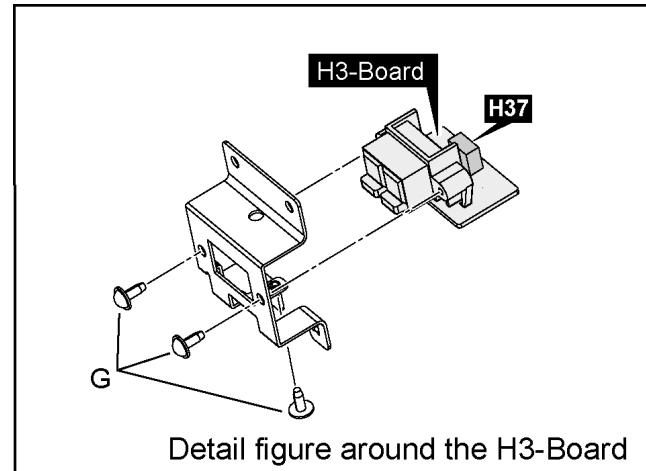


7.9. Removal of the H3-Board(L, R)

1. Remove the each 1 screw and then remove the Speaker Terminal Block(L, R).

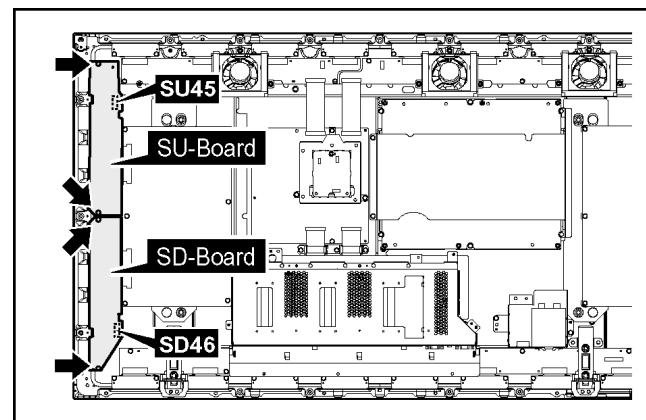


2. Disconnect the coupler(H37).
3. Remove the 3 screws(G) and then remove the H3-Board.

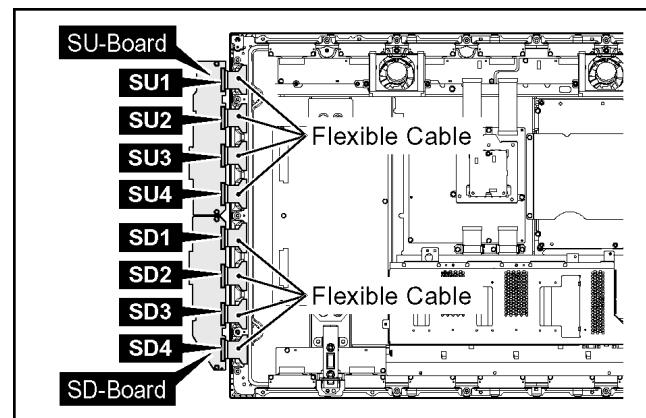


7.10. Removal of the SU-Board and the SD-Board

1. Remove the Speaker Terminal Block(R).
(Reference to Removal of the H3-Board(L, R))
2. Remove the each 2 screws.
3. Slide the SU-Board and the SD-Board to the left.
4. Disconnect the couplers(SU45, SD46).

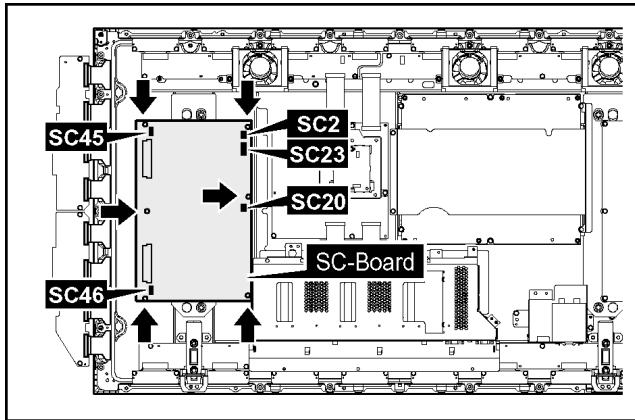


5. Remove the Flexible Cable from the couplers(SU1, SU2, SU3, SU4) and then remove the SU-Board.
6. Remove the Flexible Cable from the couplers(SD1, SD2, SD3, SD4) and then remove the SD-Board.



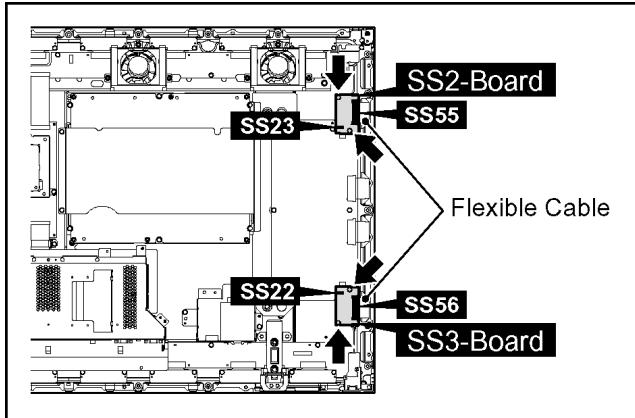
7.11. Removal of the SC-Board

1. Remove the Speaker Terminal Block(R).
(Reference to Removal of the H3-Board(L, R))
2. Remove the each 2 screws.
3. Slide the SU-Board and the SD-Board to the left.
(Reference to Removal of the SU-Board and the SD-Board)
4. Disconnect the couplers(SC2, SC20, SC23, SC45, SC46).
5. Remove the 6 screws and then remove the SC-Board.



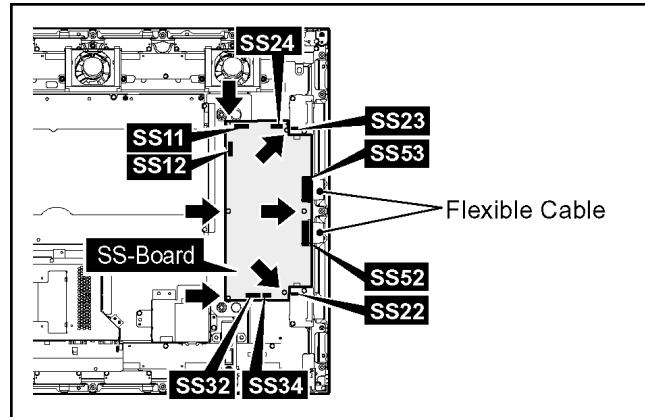
7.12. Removal of the SS2-Board and the SS3-Board

1. Disconnect the coupler(SS23).
2. Remove the Flexible Cable from the coupler(SS55).
3. Disconnect the coupler(SS22).
4. Remove the Flexible Cable from the coupler(SS56).
5. Remove the each 2 screws and then remove the SS2-Board and the SS3-Board.



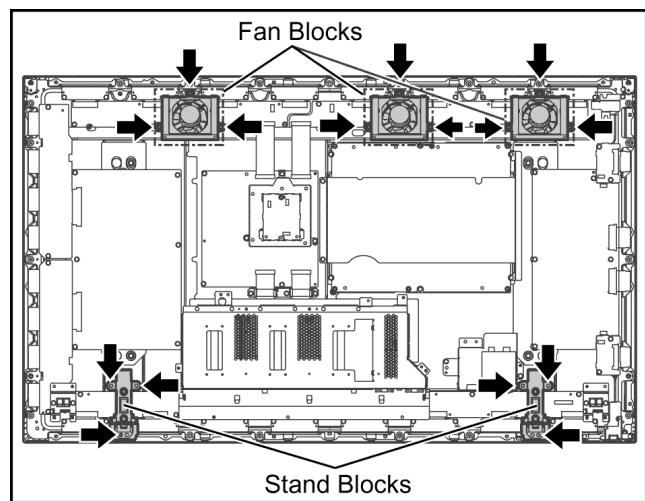
7.13. Removal of the SS-Board

1. Disconnect the couplers(SS11, SS12, SS22, SS23, SS24, SS32, SS34).
2. Remove the Flexible Cable from the couplers(SS52, SS53).
3. Remove the 6 screws and then remove the SS-Board.



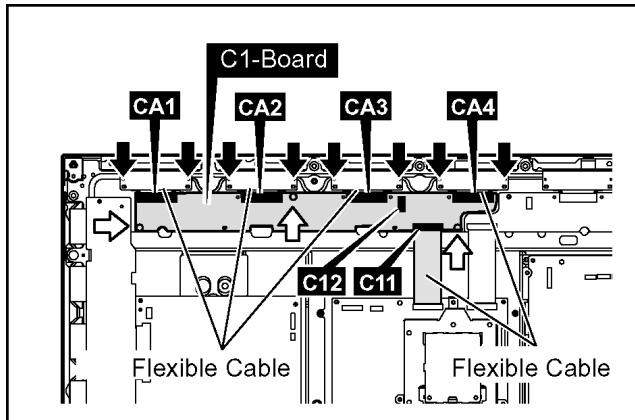
7.14. Removal of the C1, C2, C3 and the C4-Board

1. Remove the Slot Block.
(Reference to Removal of the Slot Block)
2. Remove the Speaker Terminal Block(L, R).
(Reference to Removal of the H3-Board(L, R))
3. Remove the each 3 screws and then remove the Fan Blocks.
4. Remove the each 3 screws and then remove the Stand Blocks.



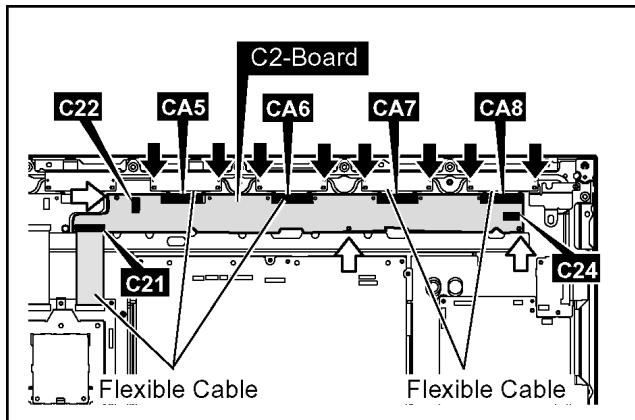
7.14.1. Removal of the C1-Board

1. Remove the Flexible Cable from the coupler(C11).
2. Disconnect the coupler(C12).
3. Remove the 8 screws and then remove the Flexible Cable from the couplers(CA1, CA2, CA3, CA4).
4. Remove the each 3 screws and then remove the C1-Board.



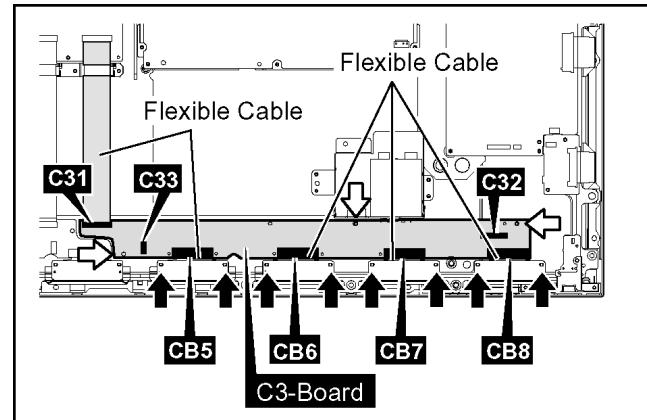
7.14.2. Removal of the C2-Board

1. Remove the Flexible Cable from the coupler(C21).
2. Disconnect the couplers(C22, C24).
3. Remove the 8 screws and then remove the Flexible Cable from the couplers(CA5, CA6, CA7, CA8, C31).
4. Remove the 3 screws and then remove the C2-Board.



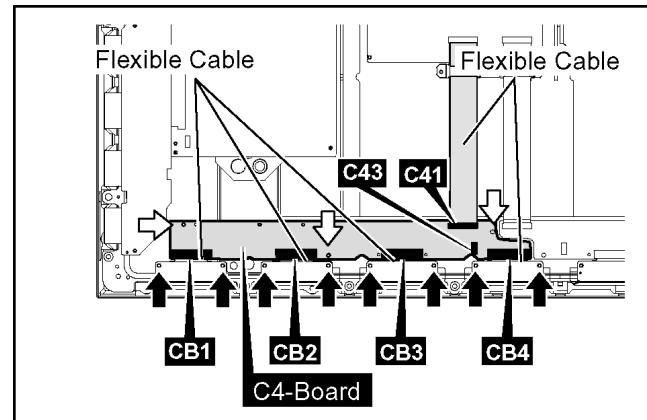
7.14.3. Removal of the C3-Board

1. Remove the Flexible Cable from the coupler(C31).
2. Disconnect the couplers(C32, C33).
3. Remove the 8 screws and then remove the Flexible Cable from the couplers(CB5, CB6, CB7, CB8, C31).
4. Remove the 3 screws and then remove the C3-Board.



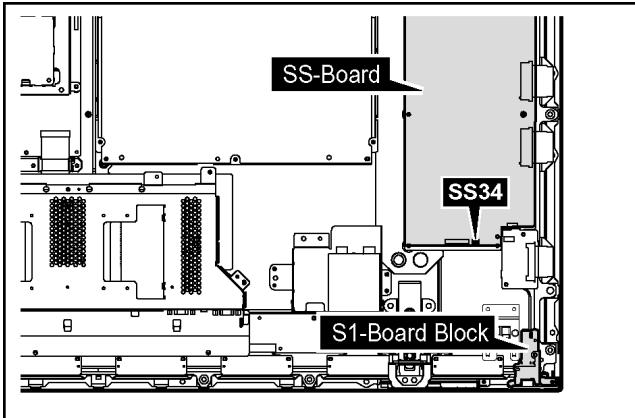
7.14.4. Removal of the C4-Board

1. Remove the Flexible Cable from the coupler(C41).
2. Disconnect the coupler(C43).
3. Remove the 8 screws and then remove the Flexible Cable from the couplers(CB1, CB2, CB3, CB4, C41).
4. Remove the 3 screws and then remove the C4-Board.

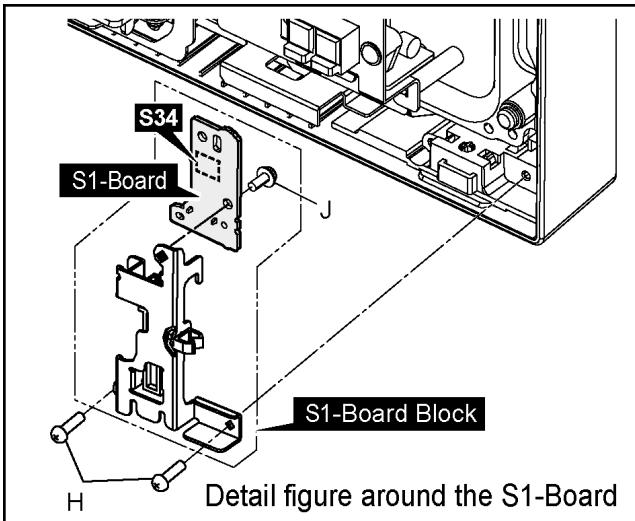


7.15. Removal of the S1-Board

1. Disconnect the coupler(SS34).

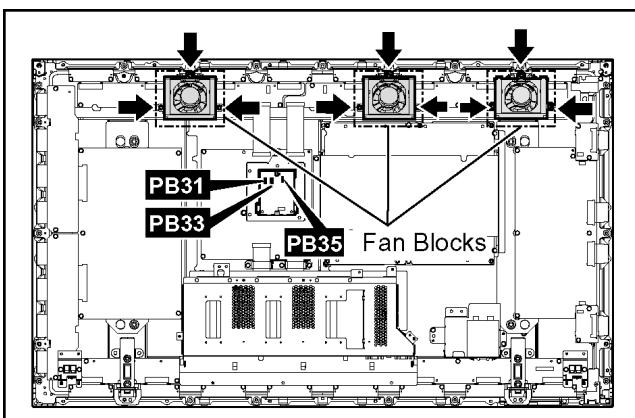


2. Remove the 2 screws(H) and then remove the S1-Board Block.
3. Disconnect the coupler(S34).
4. Remove the 1 screw(J) and then remove the S1-Board.



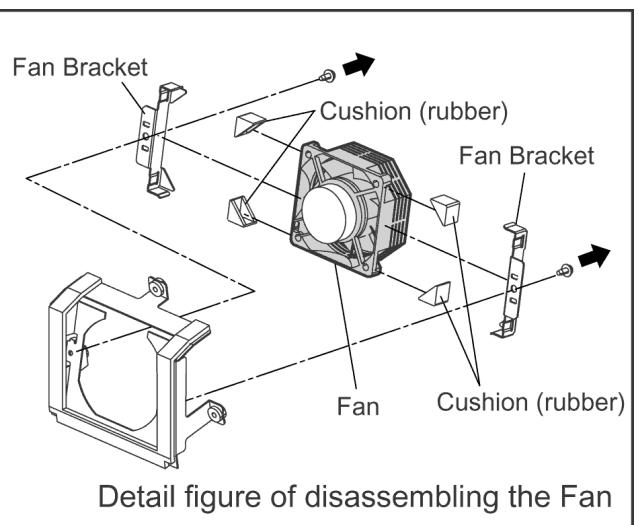
7.16. Removal of the Fan

1. Disconnect the couplers(PB31, PB33, PB35).
2. Remove the each 3 screws and then remove the 3 Fan Blocks.

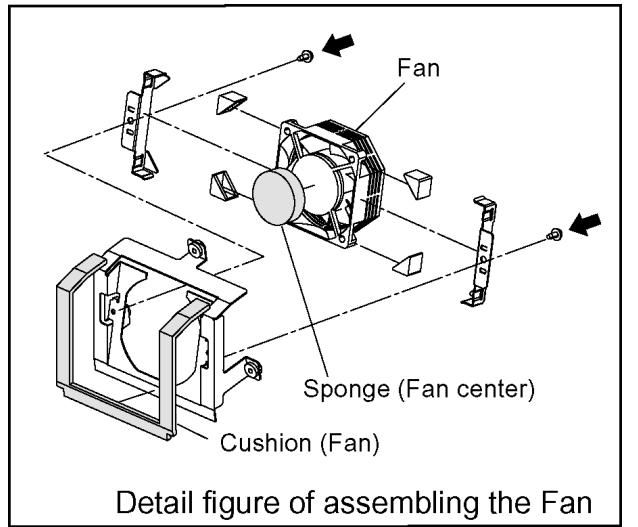


3. Remove the each 2 screws.

4. Remove the each 2 Fan brackets and the each 4 Cushion s(rubber) and then remove the 3 Fans..



5. Reassemble the Fans in reverse order.
6. Stick the Sponge (Fan center) on the central part of the Fan.
7. Stick the Cushion (Fan) around the Fan.



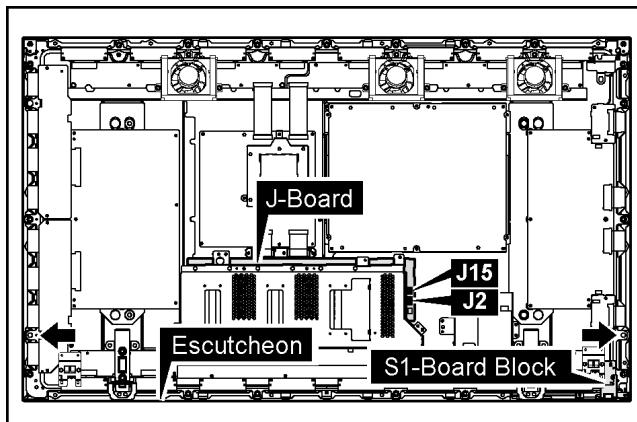
Note:

The Sponge (Fan center) and the Cushion (Fan) are unsuitable to reuse.

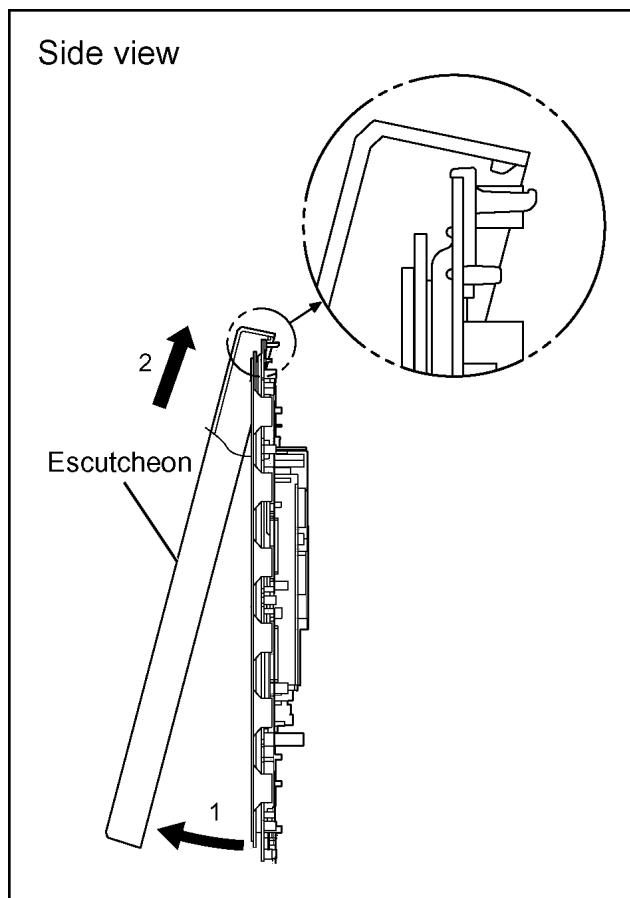
Please use a new one at the time of Fan exchange.

7.17. Removal of the Escutcheon

1. Remove the S1-Board Block.
(Reference to Removal of the S1-Board)
2. Disconnect the couplers(J2, J15).
3. Remove the 2 screws of the Escutcheon.

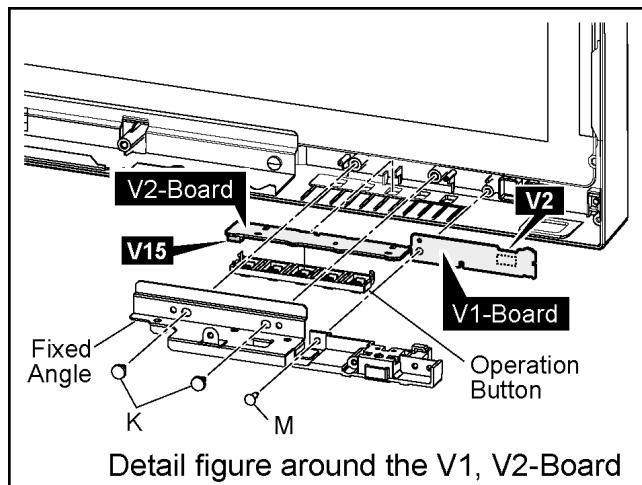


4. Pull the bottom of the Escutcheon in the direction of the arrow1 and then lift up the Escutcheon to remove in the direction of the arrow2.



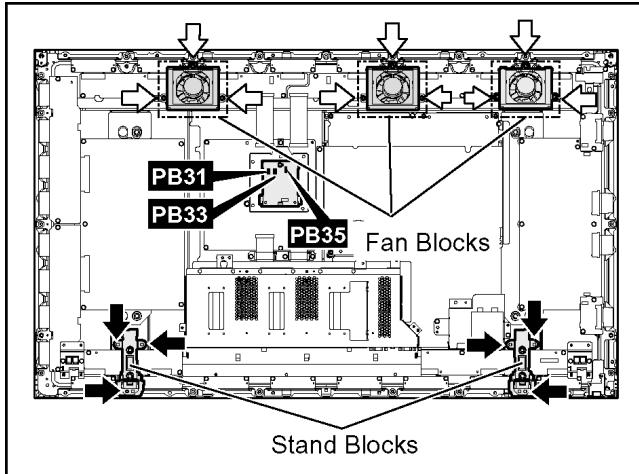
7.18. Removal of the V1-Board and the V2-Board

1. Operate from procedure 1 to procedure 3 of 8.17.
(Reference to Removal of the Escutcheon)
2. Remove the 2 screws(K) and then remove the Fixed Angle.
3. Remove the 1 screw(M).
4. Remove the operation button from the V2-Board.
5. Disconnect the coupler(V15) and then remove the V2-Board.
6. Disconnect the coupler(V2) and then remove the V1-Board.

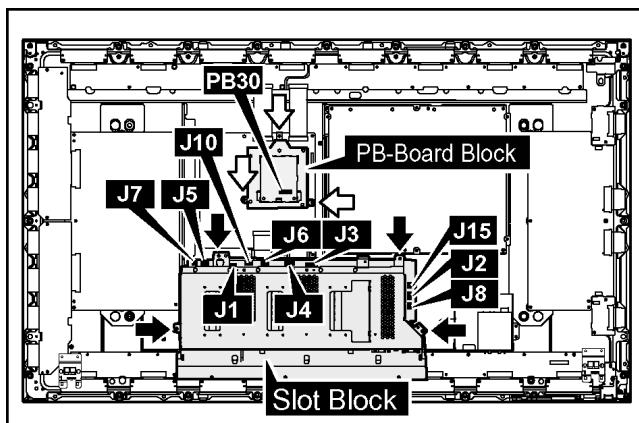


7.19. Removal of the Plasma Panel

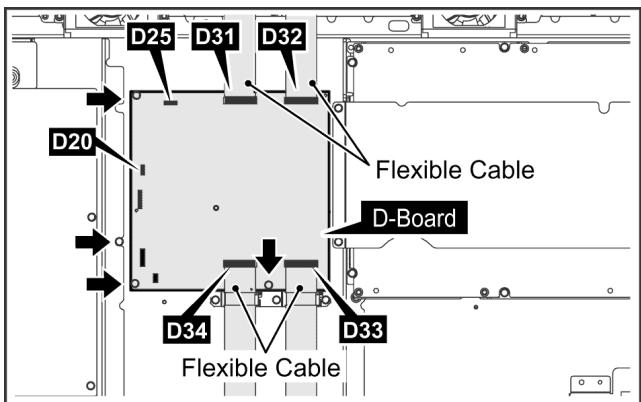
1. Disconnect the couplers(PB31, PB33, PB35).
2. Remove the each 3 screws and then remove the Fan Blocks.
3. Remove the each 3 screws and then remove the Stand Block(L, R).



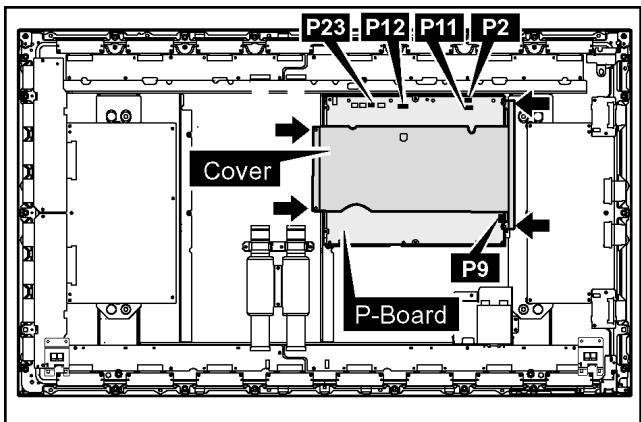
4. Disconnect the couplers(J1, J2, J3, J4, J5, J6, J7, J8, J10, J15).
5. Remove the 4 screws and then remove the Slot Block.
6. Disconnect the coupler(PB30).
7. Remove the 3 screws and then remove the PB-Board Block.



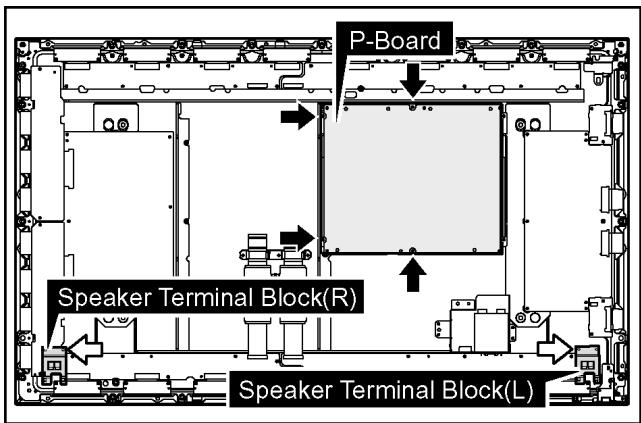
8. Disconnect the couplers(D20, D25).
9. Remove the Flexible Cable from the couplers(D31, D32, D33, D34).
10. Remove the 4 screws and then remove the D-Board.



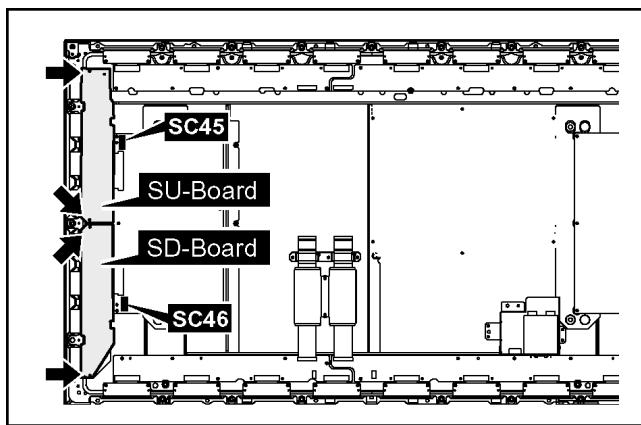
11. Disconnect the couplers(P2, P9, P11, P12, P23) .
12. Remove the 4 screws and then remove the Cover.



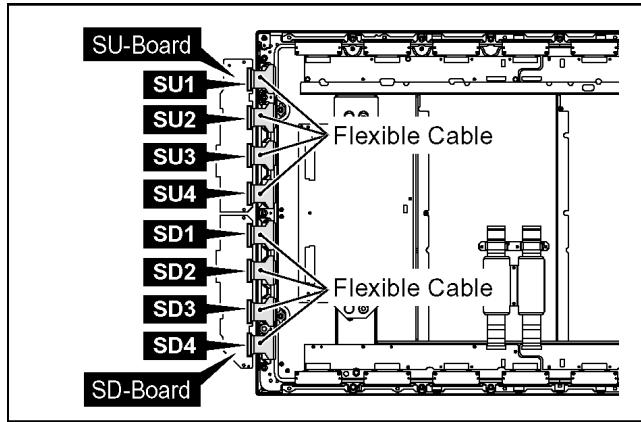
13. Remove the 4 screws and then remove the P-Board.
14. Remove the each 1 screw and then remove the Speaker Terminal Block(L, R).



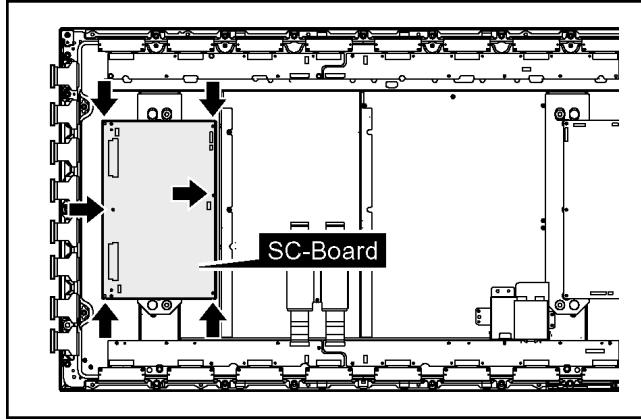
15. Disconnect the couplers(SC45, SC46).
 16. Remove the each 2 screws and then slide the SU-Board and the SD-Board to the left.



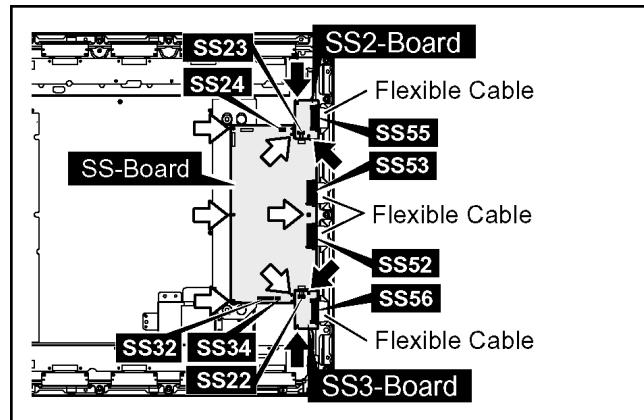
17. Remove the Flexible Cable from the couplers(SU1, SU2, SU3, SU4) and then remove the SU-Board.
 18. Remove the Flexible Cable from the couplers(SD1, SD2, SD3, SD4) and then remove the SD-Board.



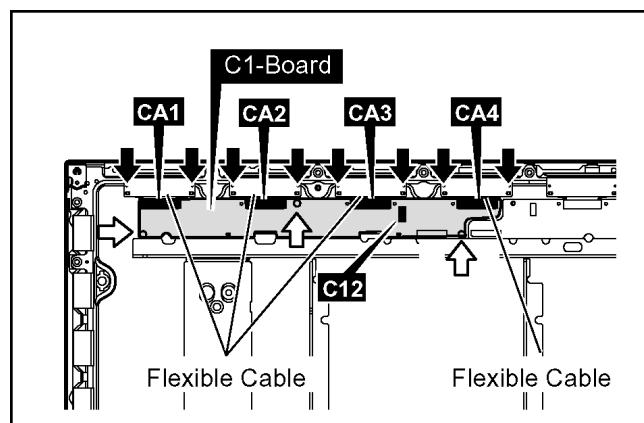
19. Remove the 6 screws and then remove the SC-Board.



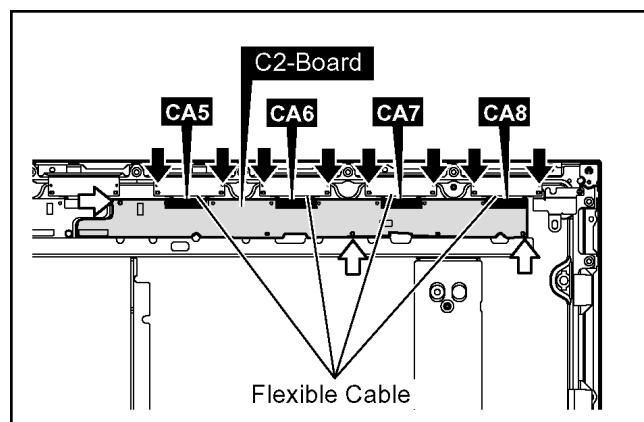
20. Disconnect the coupler(SS23).
 21. Remove the Flexible Cable from the coupler(SS55).
 22. Remove the 2 screws and then remove the SS2-Board .
 23. Disconnect the coupler(SS22).
 24. Remove the Flexible Cable from the coupler(SS56).
 25. Remove the 2 screws and then remove the SS3-Board.
 26. Disconnect the couplers(SS24, SS32, SS34).
 27. Remove the Flexible Cable from the couplers(SS52, SS53).
 28. Remove the 6 screws and then remove the SS-Board.



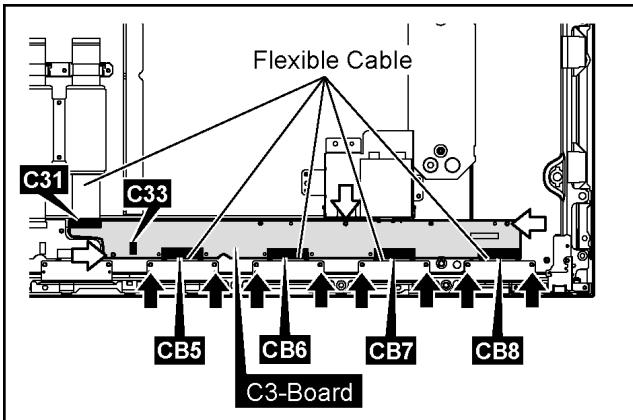
29. Disconnect the coupler(C12).
 30. Remove the 8 screws and then remove the Flexible Cable from the couplers(CA1, CA2, CA3, CA4).
 31. Remove the 3 screws and then remove the C1-Board.



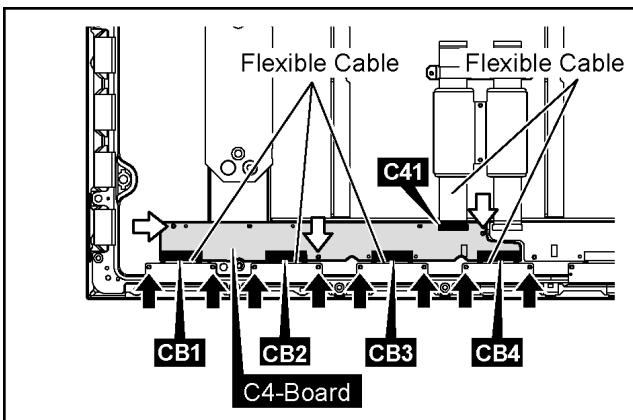
32. Remove the 8 screws and then remove the Flexible Cable from the couplers(CA5, CA6, CA7, CA8).
 33. Remove the 3 screws and then remove the C2-Board.



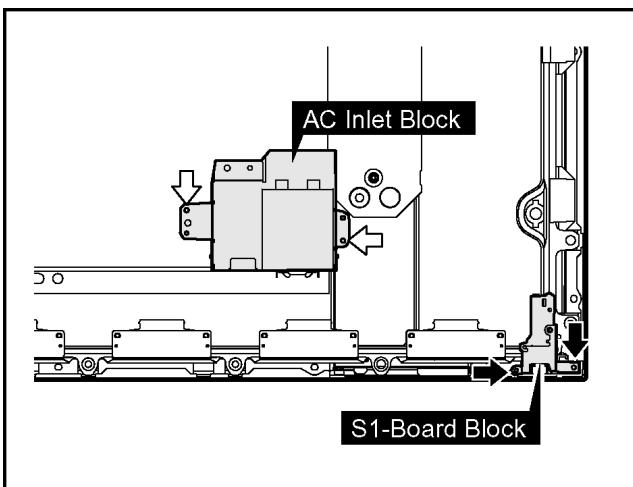
34. Disconnect the coupler(C33).
 35. Remove the 8 screws and then remove the Flexible Cable from the couplers(CB5, CB6, CB7, CB8, C31).
 36. Remove the 3 screws and then remove the C3-Board.



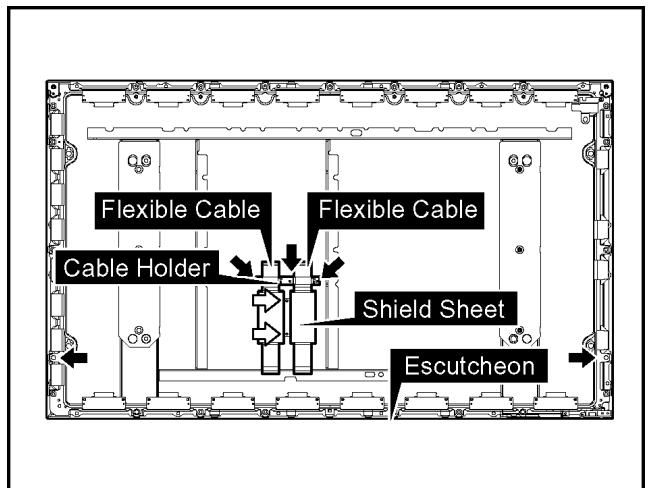
37. Remove the 8 screws and then remove the Flexible Cable from the couplers(CB1, CB2, CB3, CB4, C41).
 38. Remove the 3 screws and then remove the C4-Board.



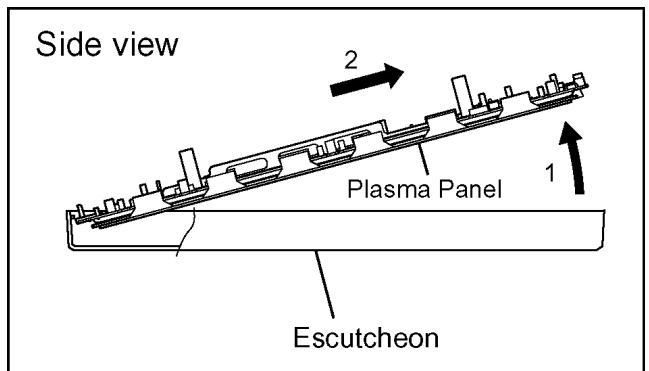
39. Remove the 2 screws and then remove the S1-Board Block.
 40. Remove the 2 screws and then remove the AC Inlet Block.



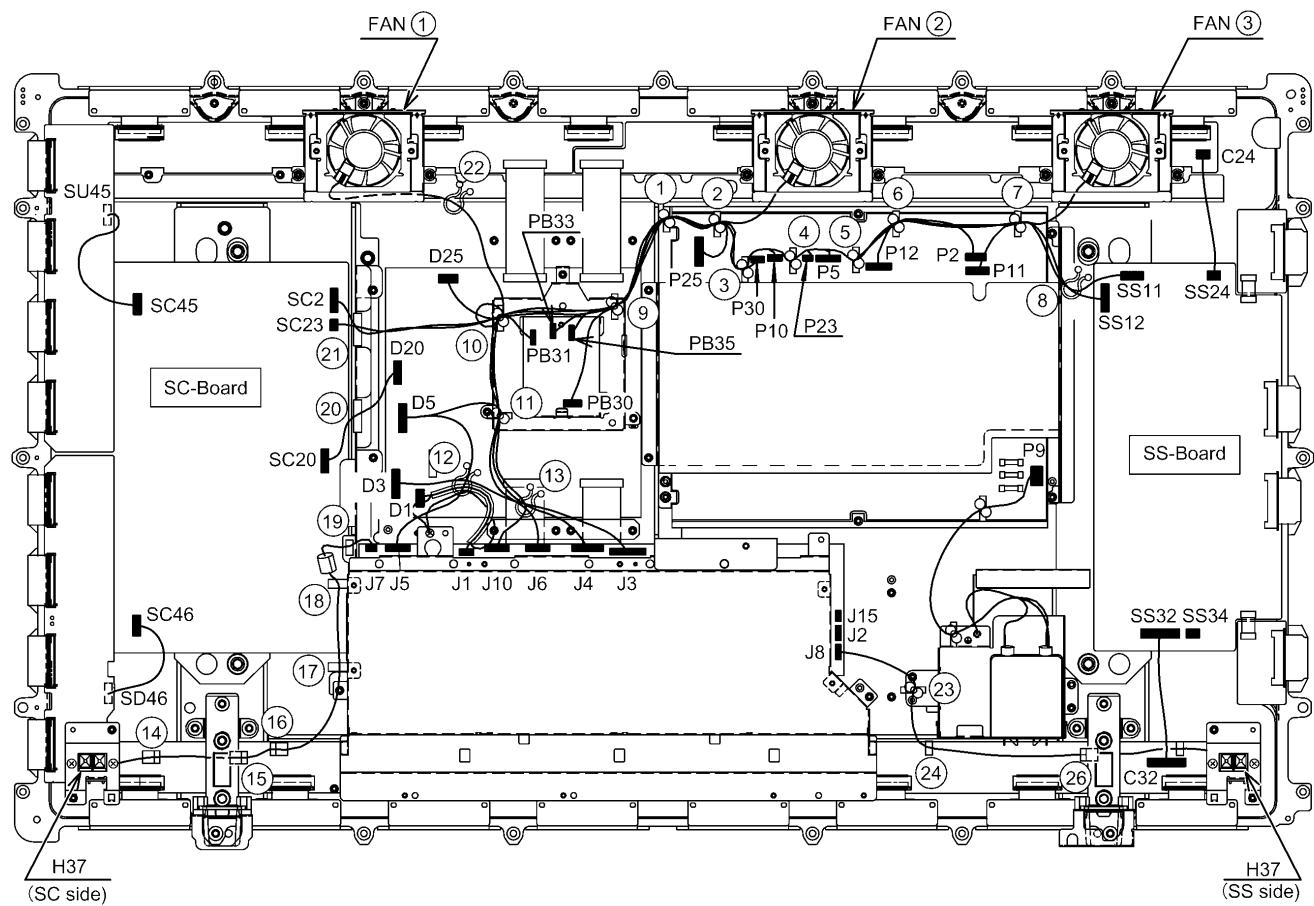
41. Remove the 2 screws and then remove the Shield Sheet.
 42. Pull out the Flexible Cable.
 43. Remove the 3 screws and then remove the Cable Holder.
 44. Remove the 2 screws of the Escutcheon.



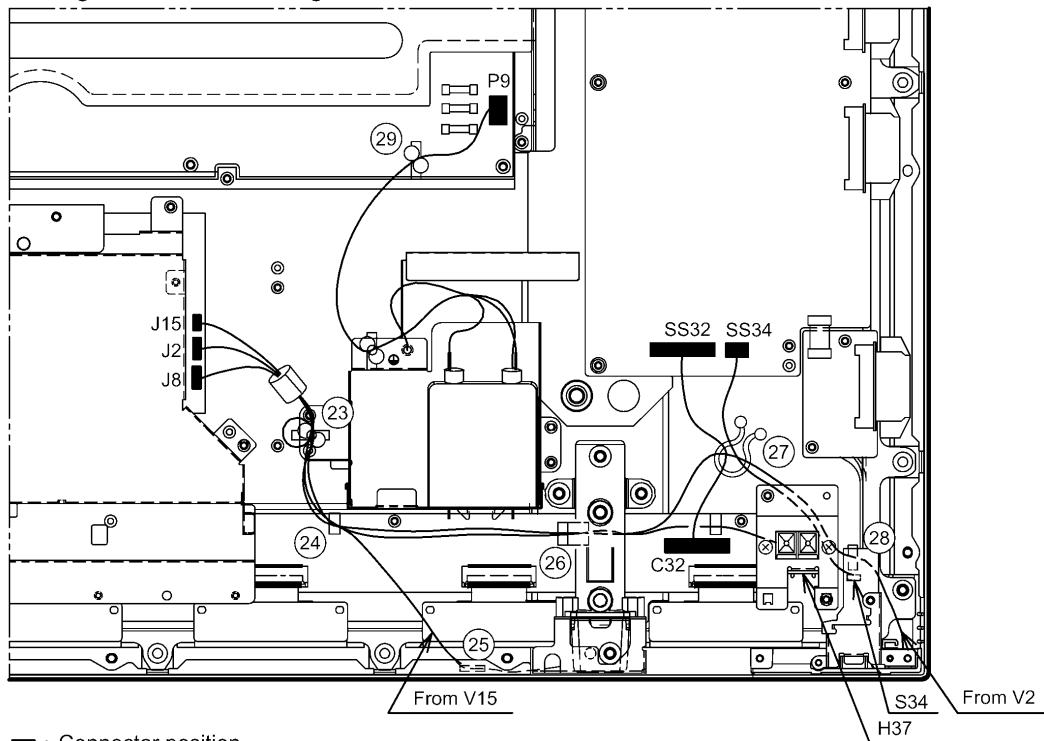
45. Lift up the bottom of the Plasma Panel in the direction of the arrow1 and pull the Plasma Panel in the direction of the arrow2 and then remove the Plasma Panel.



8 Location of Lead Wiring



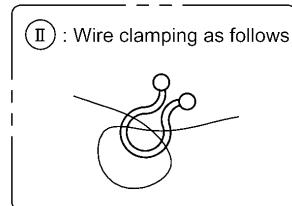
Enlarged view of lower right side



Clamp position

CON : No.	CON : No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
SC2	P2	○	○	○	○	○	○														○										
SC23	P23	○	○	○	○																○										
SC20	D20																				○										
PB30	P30	○	○	○																											
D25	P25	○	○																												
D1 long earth wire	J1																				○										
D3	J3																			○	○										
D5	J5 J6																			○	○										
J4	P5	○	○	○	○															○	○										
J10	P10	○	○	○																○	○	○	○								
H37 (SC side)	J7																														
H37 (SS side)	J8																														
SS12	P12						○	○	○																						
SS11	P11							○	○																						
SS32	C32																														
SS24	C24																														
FAN①	PB31																														
FAN②	PB33	○	○																												
FAN③	PB35	○	○	○	○	○	○	○	○																						
V15 (V2-Board)	J15																														
V2 (V1-Board)	J2																														
SS34	S34																														
AC Inlet	P9																														

No clamp treatment



9 Adjustment Procedure

9.1. Driver Set-up

9.1.1. Item / Preparation

1. Set the picture adjustment items as follows.

- Picture menu : Standard
- Color temperature : Normal
- Picture : 25
- Aspect : Full

2. Input a white signal of the RGB signal generator.

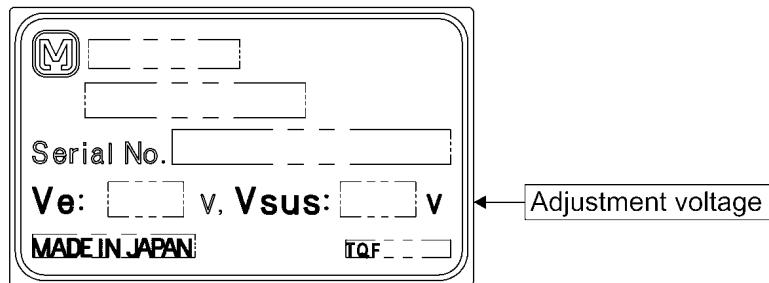
9.1.2. Adjustments

Adjust driver section voltages referring the panel data on the panel data label.

Name	Test Point	Voltage	Volume	Remarks
Vsus	TPVSUS (SS)	188V ± 2V	VR351 (P)	*
Ve	TPVE (SS)	160V ± 1V	VR6145 (SS)	*
Vda	TPVDA (SS)	70V ± 1V	Fixed	
Vad	TPVAD (SC)	-105V ± 1V	VR6477(SC)	
Vscn	TPVSCN (SC)	Vad + 130V ± 4V	Fixed	
Vset	TPVSET (SC)	240V ± 7V	Fixed	

*See the Panel label.

Panel Label information



Caution

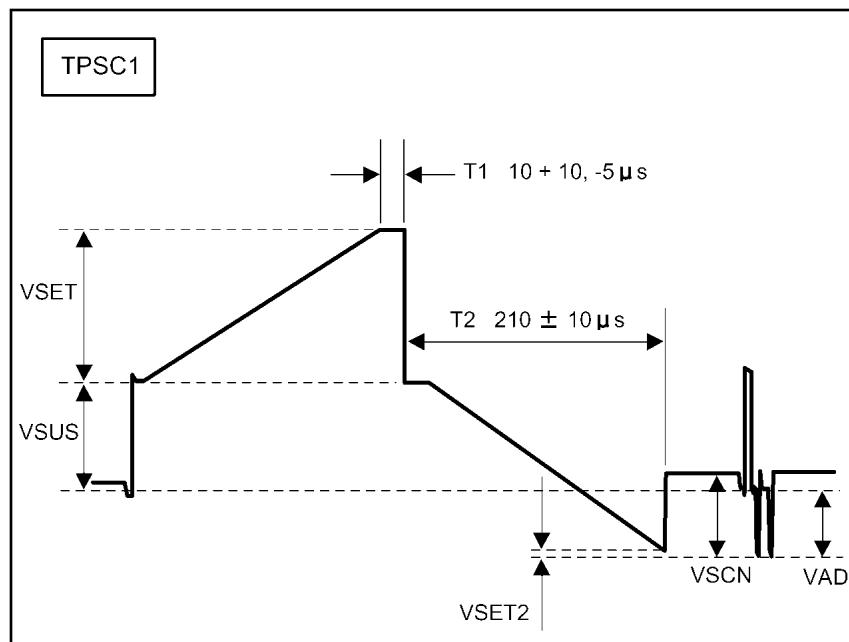
1. First perform Vsus voltage adjustment.
2. Confirmation of Vscn voltage should be performed after confirmation of Vad voltage adjustment.

When Vad = -105V, Voltage of Vscn is 25V ± 4V.

9.2. Initialization Pulse Adjust

1. Input a white signal to plasma video input.
2. Set the picture adjustment items as follows.
 - Picture menu : Standard
 - Color temperature : Normal
 - Picture : 25
 - Aspect : Full
3. Connect Oscilloscope to TPSC1 (T1) and adjust VR6523 for $10 + 10 / -5\mu\text{Sec}$.
4. Connect Oscilloscope to TPSC1 (T2) and adjust VR6557 for $210 \pm 10\mu\text{Sec}$.

	Test point	Volume	Level	Remarks
T1	TPSC1 (SC)	VR6523(SC)	$10 + 10 / -5\mu\text{Sec}$	
T2	TPSC1 (SC)	VR6557 (SC)	$210 \pm 10\mu\text{Sec}$	



9.3. P.C.B. (Printed Circuit Board) exchange

9.3.1. Caution

1. To exchange P.C.B. , wait for 1 minute after power was off for discharge from electrolysis capacitors.

9.3.2. Quick adjustment after P.C.B. exchange

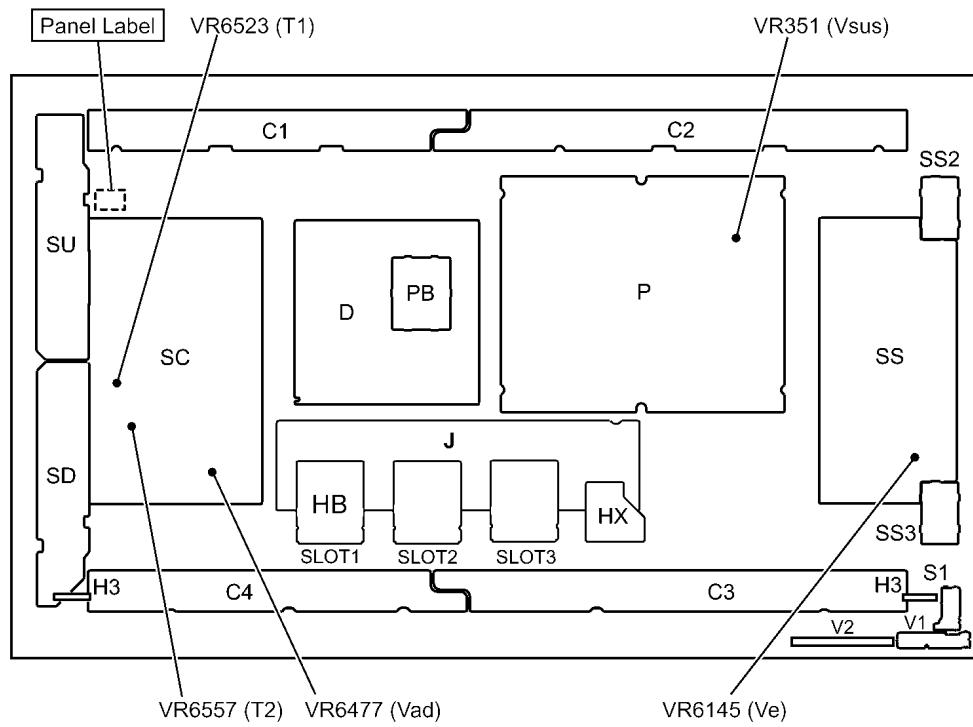
P.C.B.	Name	Test Point	Voltage	Volume	Remarks
P Board	Vsus	TPVSUS (SS)	$188V \pm 2V$	VR351 (P)	*
SC Board	Vad	TPVAD (SC)	$-105V \pm 1V$	VR6477 (SC)	
	Vset	TPVSET (SC)	$240V \pm 7V$	Fixed	
SS Board	Vscn	TPVSCN (SC)	$Vad + 130V \pm 4V$	Fixed	
	Ve	TPVE (SS)	$160V \pm 1V$	VR6145 (SS)	*
D, J Board	Vda	TPVDA (SS)	$70V \pm 1V$	Fixed	
White balance, Pedestal and Sub brightness for NTSC, PAL, HD, PC and 625i signals					

*See the Panel label.

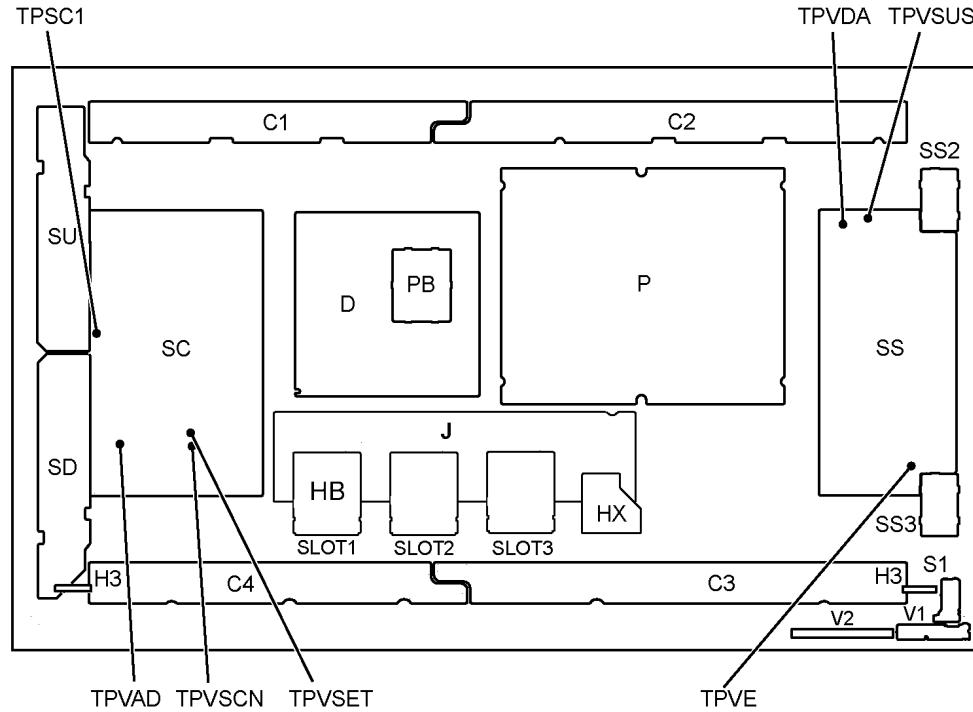
Caution:

Absolutely do not reduce Vsus below Ve not to damage the P.C.B.

9.4. Adjustment Volume Location



9.5. Test Point Location



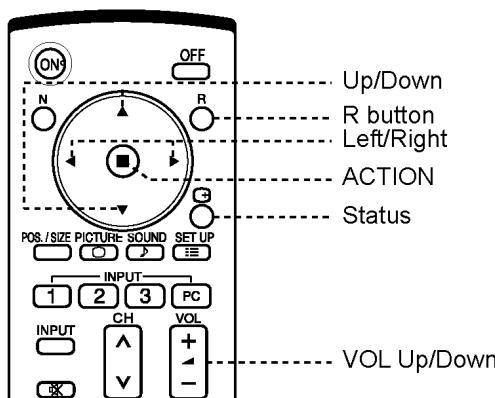
10 Service mode

10.1. CAT (computer Aided Test) mode

CAT mode menu

CAT Panel sys8.2	Mode	Function	Access button
IIC Mode	IIC	Service Alignment	Action
CD Mode	CD(Complete Diagnostics)	Software version information EEPROM edit	Mute more than 5 seconds
SD Mode	SD(Status Display)	MTBF parameter	Action
MS Mode	MS Mode	Not use	----
ID Mode	ID Mode	Not use	----

Remote control



How to access the CAT mode.

Press and hold the **Volume down / - button** on the front panel of the unit and press the **status button** on the remote control 3 times quickly within 2 seconds, this will place the unit into the CAT mode.

To exit the **CAT mode**, access the **ID mode** and switch off the main power.

10.1.1. IIC mode

Select the IIC mode by **Up/Down button** on the remote control at the front page of CAT mode and then press the **Action button** on the remote control.

OSD

PAL : JUST Mid	Subject
Panel W/B Adj.	Item
R-Drive	
D5 D5	

Arrows indicate data flow: 'New data' points to the second row of the menu, and 'Original data' points to the third row.

How to use the IIC mode.

1. Select the alignment **Subject** by **Up/Down buttons** on the remote control.
2. Select the alignment **Item** by **Left/Right buttons** on the remote control.
3. Adjust **optimum setting** by **Volume Up/Down buttons** on the remote control.
4. The **data is memorized** when press the **R button** on the remote control or change the alignment Subject (or Items).

Subject and item are mentioned on "IIC mode structure".

To exit the IIC mode, press the **R button** on the remote control.

10.1.2. CD mode

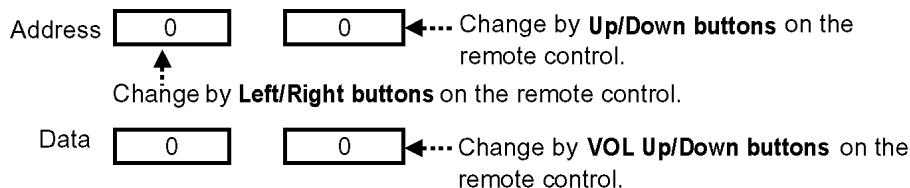
Select the CD mode by **Up/Down button** on the remote control at the front page of CAT mode and then press the **Mute button** on the remote control more than 5 seconds.

Micom Software version	PM1.0000H8	NG	Factory use
Memory data version D	41.01 2	8C 4A	
Memory data version H	2.00	ED 12	
SF Control/Flash	Version	99	13.10
Memory data Change	Address	0	1
	Data	1	1
PTCT	00.00.00.00.00		SOS history
			Original data

Micom software version (IC9702), this version can be upgrade by

- 1.replace of new version IC
- 2.Loading the new version software from loader tool, TZSC07036.

Memory data change



The data is memorized when switch off the main power.

To exit the CD mode, press the **R button** on the remote control.

10.1.3. SD mode

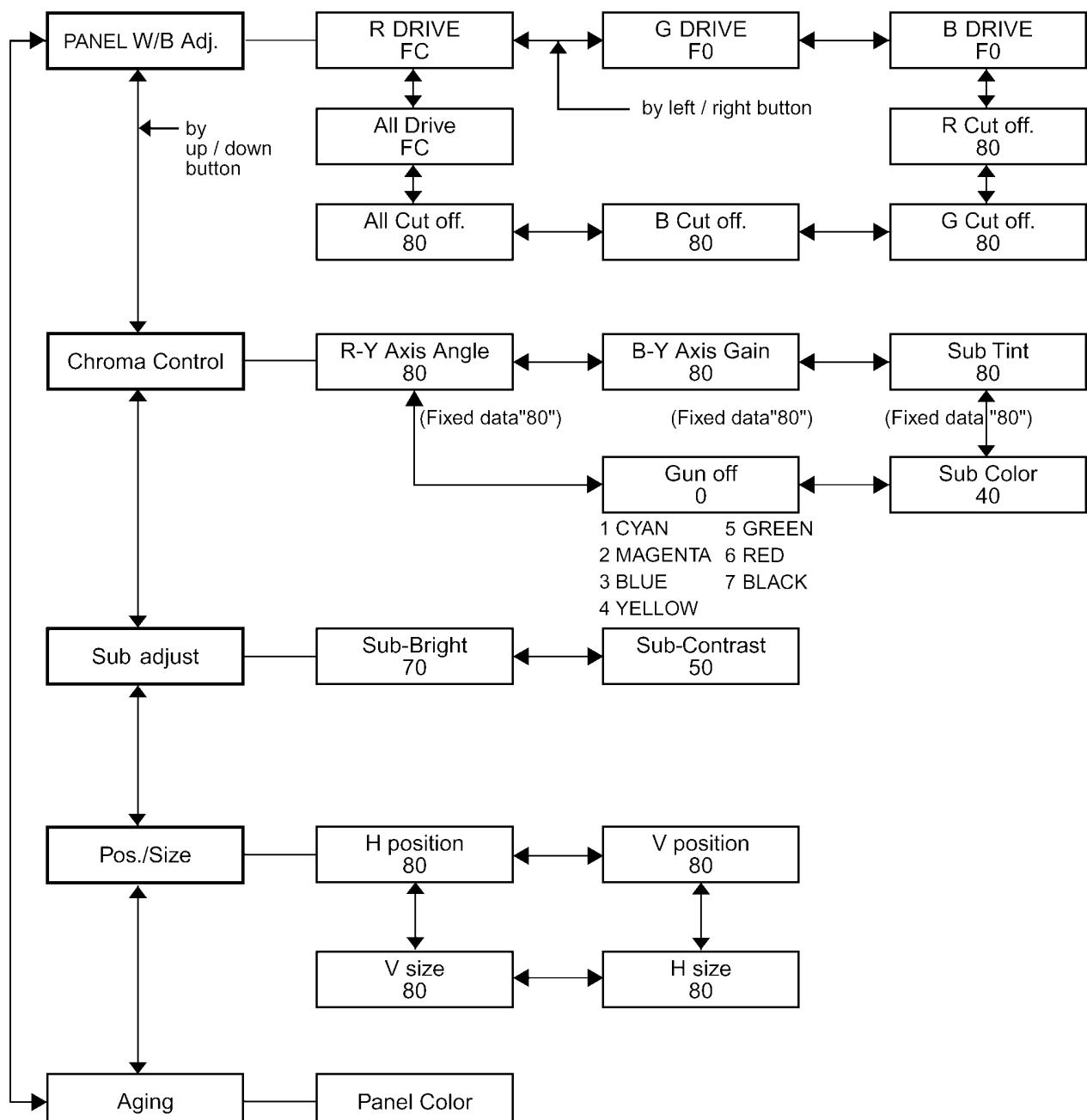
Select the SD mode by **Up/Down button** on the remote control at the front page of CAT mode and then press the **Action button** on the remote control.

OSD

Input command check	40 41 38 FF 6 6 18 26 26 26 26 26 27 27 29 27 18 30 18 29	History of remote control command. (Factory use).
MTBF Parameter	WT 7 PT 6	Cumulative Time for power on condition. (unit :hour)
Remote Control Mode	A B	Counter of power on. (unit :time)

To exit the SD mode, press the **R button** on the remote control.

10.2. IIC mode structure (following items value is sample data.)



0	WHITE	3	BLUE	7	RAMP_R	A	WINDOW
1	RED	4	SCROLL BAR	8	RAMP_G		
2	GREEN	6	RAMP_W	9	RAMP_B		

These are selected by Action button of Remote and press the R button to exit.

11 Alignment

11.1. PC / RGB panel white balance

	INPUT	Equipment	Setting	Alignment menu	Procedure												
1	PC (VGA) Gray Scale Pattern	Color Analyzer	Picture menu: Standard Picture: 25 Color temperature: Cool Aspect: Full POS./Size: Normal Component/ RGB-IN Select: RGB IIC mode: Panel W/B Adj	PANEL W/B G cut off PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive	Note: . Before adjustment, color signal has not been displayed on panel. . The pedestal adjustment has been done. . The signal root must be A side. 1) Set G cut off to " 80 ". 2)Find 75% (amplitude) of white area by color sensor. 3) Set G Drive to " E0 ". 4) Adjust B and R Drive to set the High color temperature as shown Table 1. 5) Increase equaly R, G and B Drive to get the largest level of 3 color drive to "FC".												
					<table border="1"> <tr> <td>Color Temp.</td> <td>x</td> <td>y</td> </tr> <tr> <td>Cool(Hi)</td> <td>0.276</td> <td>0.276</td> </tr> <tr> <td>Normal(Mid)</td> <td>0.288</td> <td>0.296</td> </tr> <tr> <td>Warm(Low)</td> <td>0.313</td> <td>0.329</td> </tr> </table> <p>Table 1 W/B adjustment values</p>	Color Temp.	x	y	Cool(Hi)	0.276	0.276	Normal(Mid)	0.288	0.296	Warm(Low)	0.313	0.329
Color Temp.	x	y															
Cool(Hi)	0.276	0.276															
Normal(Mid)	0.288	0.296															
Warm(Low)	0.313	0.329															
2			Picture menu: Standard Picture: 25 Color temperature: Normal Aspect: Full POS./Size: Normal	PANEL W/B G cut off PANEL W/B R,G,B Drive	1) Change color temperature to "Normal". 2) In Mid color temperature, repeat the procedures 1) to 5) of Cool mode.												
3			Picture menu: Standard Picture: 25 Color temperature: Warm Aspect: Full POS./Size: Normal	PANEL W/B G cut off PANEL W/B R,G,B Drive	1) Change color temperature to "Warm". 2) In Low color temperature, repeat the procedures 1) to 5) of Cool mode.												
4	<ul style="list-style-type: none"> · NTSC · PAL · DVI 				1) Copy the R drive, G drive and B drive data obtained in above steps into NTSC, PAL and DVI area.												

Color temperature	R	G	B
High	A0-11AD	A0-11AE	A0-11AF
Medium	A0-11B0	A0-11B1	A0-11B2
Low	A0-11B3	A0-11B4	A0-11B5

Table 2 Drive data addresses (PC/RGB)

Color temperature	R	G	B
High	A0-1180	A0-1181	A0-1182
Medium	A0-1183	A0-1184	A0-1185
Low	A0-1186	A0-1187	A0-1188

Table 3 Drive data addresses (NTSC)

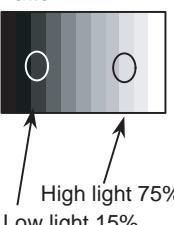
Color temperature	R	G	B
High	A0-1189	A0-118A	A0-118B
Medium	A0-118C	A0-118D	A0-118E
Low	A0-118F	A0-1190	A0-1191

Table 4 Drive data addresses (PAL)

Color temperature	R	G	B
High	A0-11B6	A0-11B7	A0-11B8
Medium	A0-11B9	A0-11BA	A0-11BB
Low	A0-11BC	A0-11BD	A0-11BE

Table 5 Drive data addresses (DVI)

11.2. HD / 525ip / 625ip panel white balance

	INPUT	Equipment	Setting	Alignment menu	Procedure												
1	HD (YUV2_HD) Gray Scale Pattern 	Color Analyzer	Picture menu: Standard Picture: 25 Color temperature: Cool Aspect: Full POS./Sise: Normal Component/ RGB-IN Select: COMPONENT IIC mode: Panel W/B Adj	PANEL W/B G cut off PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive	<p>Note: · Before adjustment, color signal has not been displayed on panel. · The pedestal adjustment has been done. · The signal root must be A side.</p> <p>1) Set G cut off to " 80 ". 2)Find 75% (amplitude) of white area by color sensor. 3) Set G Drive to " E0 ". 4) Adjust B and R Drive to set the High color temperature as shown Table 1. 5) Increase equal R, G and B Drive to get the largest level of 3 color drive to "FC".</p> <table border="1"> <tr><td>Color Temp.</td><td>x</td><td>y</td></tr> <tr><td>Cool(Hi)</td><td>0.276</td><td>0.276</td></tr> <tr><td>Normal(Mid)</td><td>0.288</td><td>0.296</td></tr> <tr><td>Warm(Low)</td><td>0.313</td><td>0.329</td></tr> </table> <p>Table 1 W/B adjustment values</p>	Color Temp.	x	y	Cool(Hi)	0.276	0.276	Normal(Mid)	0.288	0.296	Warm(Low)	0.313	0.329
Color Temp.	x	y															
Cool(Hi)	0.276	0.276															
Normal(Mid)	0.288	0.296															
Warm(Low)	0.313	0.329															
2			Picture menu: Standard Picture: 25 Color temperature: Normal Aspect: Full POS./Sise: Normal	PANEL W/B G cut off PANEL W/B R,G,B Drive	<p>1) Change color temperature to "Normal". 2) In Mid color temperature, repeat the procedures 1) to 5) of Cool mode.</p>												
3			Picture menu: Standard Picture: 25 Color temperature: Warm Aspect: Full POS./Sise: Normal	PANEL W/B G cut off PANEL W/B R,G,B Drive	<p>1) Change color temperature to "Warm". 2) In Low color temperature, repeat the procedures 1) to 5) of Cool mode.</p>												
4	· YUV1_525ip · YUV3_625ip				1) Copy the R drive, G drive and B drive data obtained in above steps into YUV1_525ip, YUV3_625ip area.												

Color temperature	R	G	B
High	A0-119B	A0-119C	A0-119D
Medium	A0-119E	A0-119F	A0-11A0
Low	A0-11A1	A0-11A2	A0-11A3

Table 2 Drive data addresses (YUV2_HD)

Color temperature	R	G	B
High	A0-1192	A0-1193	A0-1194
Medium	A0-1195	A0-1196	A0-1197
Low	A0-1198	A0-1199	A0-119A

Table 3 Drive data addresses (YUV1_525ip)

Color temperature	R	G	B
High	A0-11A4	A0-11A5	A0-11A6
Medium	A0-11A7	A0-11A8	A0-11A9
Low	A0-11AA	A0-11AB	A0-11AC

Table 4 Drive data addresses (YUV3_625ip)

12 Trouble shooting guide

12.1. Self Check

12.1.1. Display Indication

1. Self-check is used to automatically check the bus line controlled circuit of the Plasma display.
2. To get into the Self-check mode, press the **volume down** button on the customer controls at the bottom of the set, at the same time pressing the **OFF-TIMER** button on the remote control, and the screen will show :-

If the CCU ports have been checked and found to be incorrect Or not located then " - - " will appear in place of " OK "

" 01 " in the line of the " PTCT " means the number of blinks of the Power LED is 1. (Reference to 12.1.2)

" H09 " in the line of the " PTCT " is the error code.

Note:

The line of the " PTCT " displays when you get into the Self-check mode for the first time only after the Power LED blinks.

12.1.2. Power LED Blinking timing chart

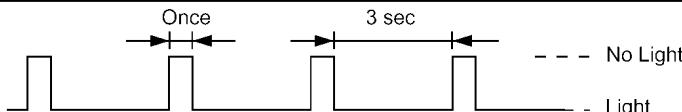
1. Subject

Information of LED Blinking timing chart.

2. Contents

When an abnormality has occurred the unit, the protection circuit operates and reset to the stand by mode. At this time, the defective block can be identified by the number of blinks of the Power LED on the front panel of the unit.

ID	IIC1	IIC2	IIC3
D	IC9703 OK H90		
	IC9001 OK H61		IC8181 OK H51
	IC9051 OK H62		IC3003 OK H63
	IC9501 OK H53		IC3004 OK H64
	IC9302 OK H55		IC3005 OK H65
	IC9201 OK H56		IC3006 OK H66
			IC2303 OK H21
		PTCT 01 H09	

Blinking times	Blinking timing	Contents & Check point
1		Data SOS
2		SCAN Driver1
3		3.3V SOS
4		5V SOS
5		Power SOS
6		FAN
7		SCAN Driver2
9		SUS Driver

3. Remarks

Above Fan function is operated during the fans are installed.

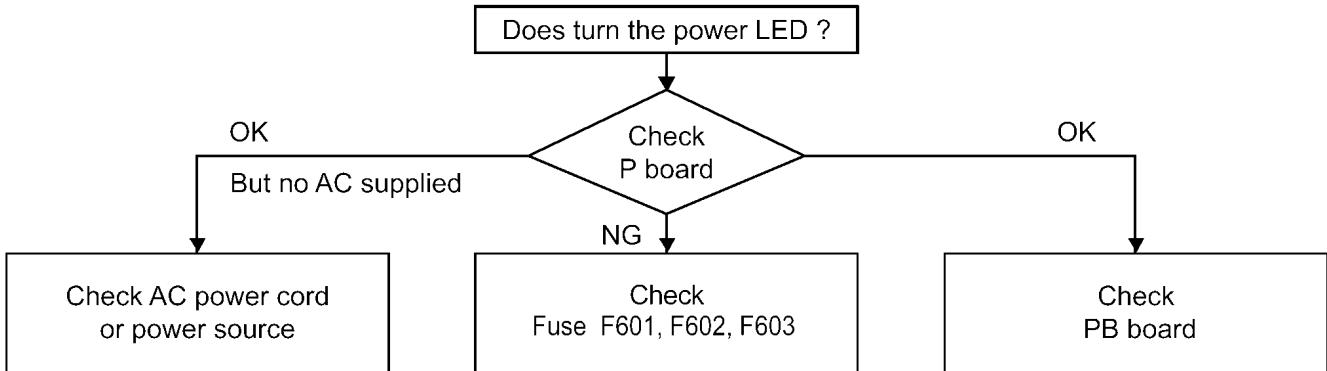
12.2. No Power

First check point

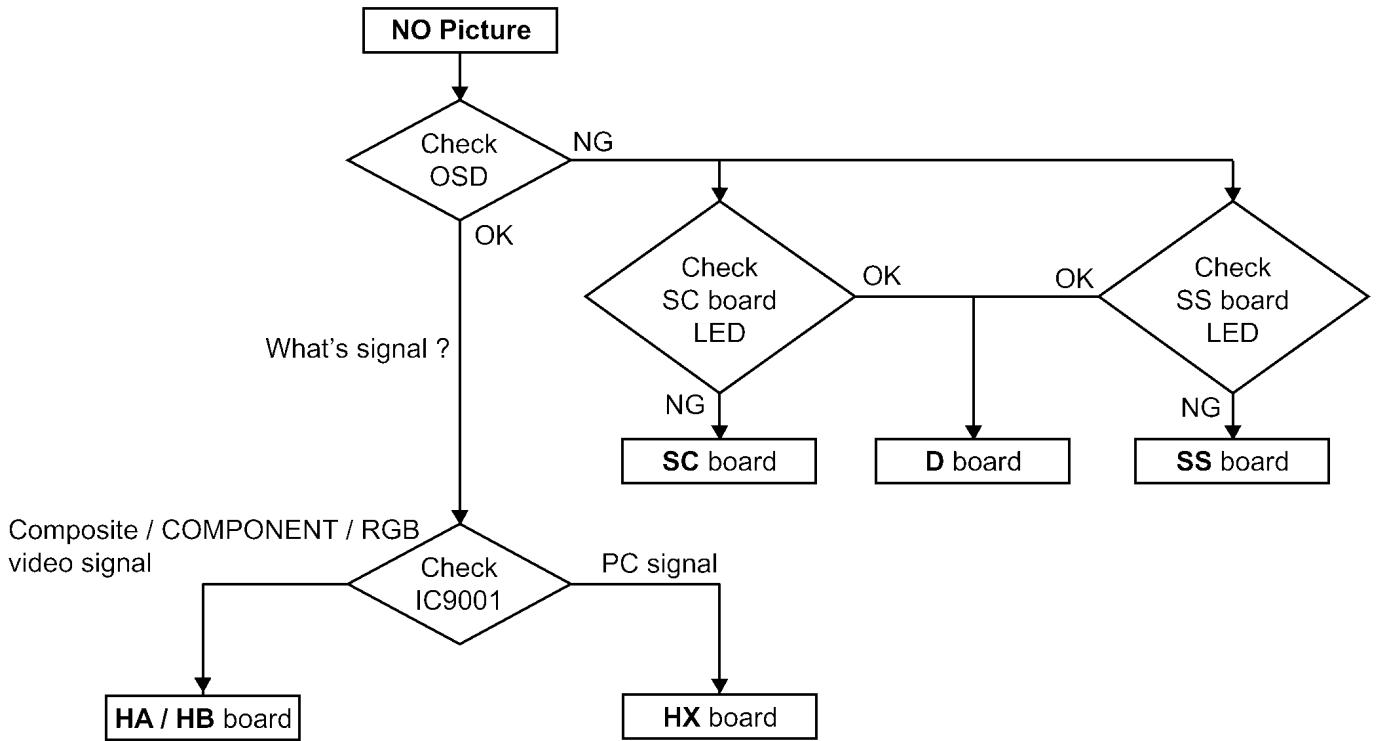
There are following 3 states of No Power indication by power LED.

1. No lit.
2. Green is lit then turns red blinking a few seconds later.
3. Only red is lit.

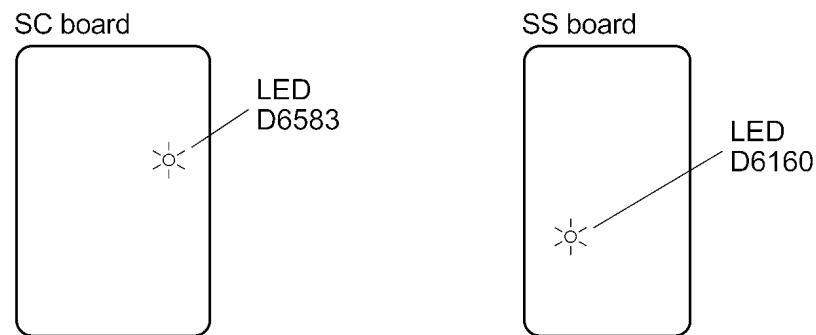
1. No lit.



12.3. No Picture

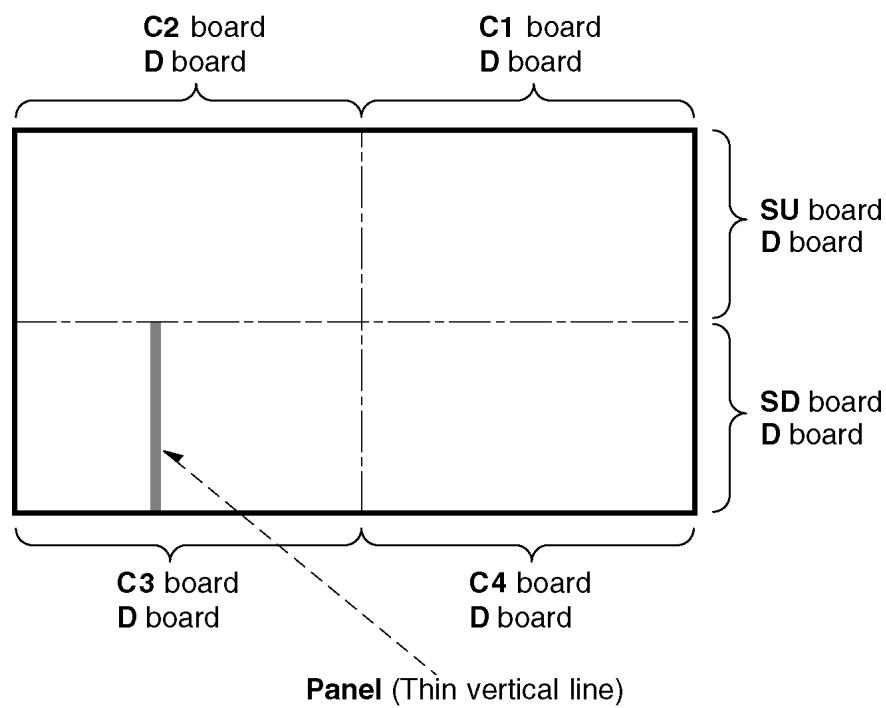


Drive circuits LED indicator



12.4. Local screen failure

Plasma display may have local area failure on the screen. Fig - 1 is the possible defect P.C.B. for each local area.



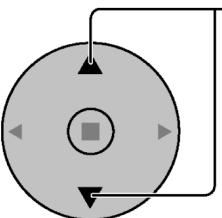
<Local screen failure chart>

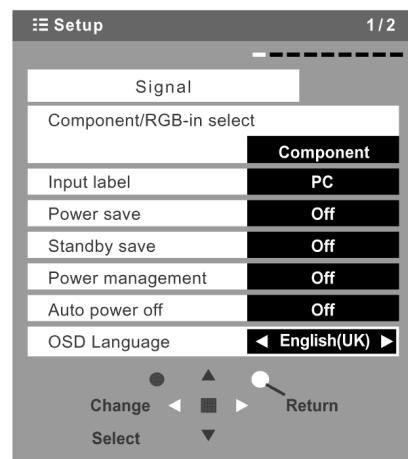
Fig - 1

13 Option Setting

How to access the Option menu

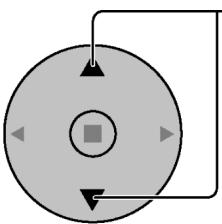
1  Press to display the Setup menu.

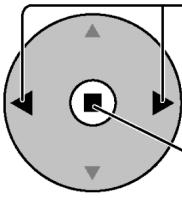
2  Press to select "OSD Language".



3  Press and hold until the Options menu is displayed.

Setting the Option menus

1  Press to select your preferred menu.

2  Press to adjust the menu.

Press to confirm.

3  Press to exit from Options menu.

Option Menu for GPH8D series

GPH8D chassis series have special function and operation setting facility called Option Menu. This Option Menu is useful for special function required customers. This should be set at the installation stage.

Option menus	default setting	Contents
Off-timer function	Enable	Off-timer operation Enable/Disable.
Onscreen display	On	Enable/Disable to display input mode indication after power on and no signal indication.
Initial INPUT	Off	Sets the initial input mode when the power is turned on . Allow input mode selection while power is on.
Initial VOL level	Off	Sets the initial volume level when the power is turned on. Allow Volume control while power is on.
Maximum VOL Level	Off	Sets the maximum volume to desired level. Volume cannot exceed this level.
INPUT lock	Off	Fixes the input mode to AV, Component/RGB or PC. Can not change input mode by input selection key.
Studio W/B	Off	Set warm mode color temperature to 3,200 Kelvin.
Advanced PIP	Off	Off : Sets normal two screen display mode. On : Sets Advanced PIP mode.
Display size	Off	Adjusts the image display size on screen. On : Sets the image display size approximately 95% of the normal image display.
Button lock	Off	Enable/Disable bottom operation buttons (Input, Menu, Enter and/or volume up/down)
Remocon User Level	Off	Remote key invalidation. Off : Valid key is all key of remote. User1 : Valid key are only Stand-by (ON/OFF), Input, Direct input, Status, Surround, Sound mute On/Off, and volume adjustment. User2 : Valid key is only Stand-by (ON/OFF). User3 : All keys are null and void
ID select	0	Set ID number from 0 to 100.
Remote ID	Off	Remote ID function On/Off. (While the Remote ID on, standard remote function can not control the unit.)
Serial ID	Off	Serial ID function On/Off
Slot power	Off	Sets the slot power mode while the power is turned on. Allow Optional Terminal Board insert Slots while power is on.
V. Installation	Off	V. Installation function On/Off This mode is available for TH-42PHD8EK/ES/BK/BS. Note: Turn up the power switch for the upward direction when you set display vertically.
Rotate	Off	The image rotates 180 degrees (up-down)

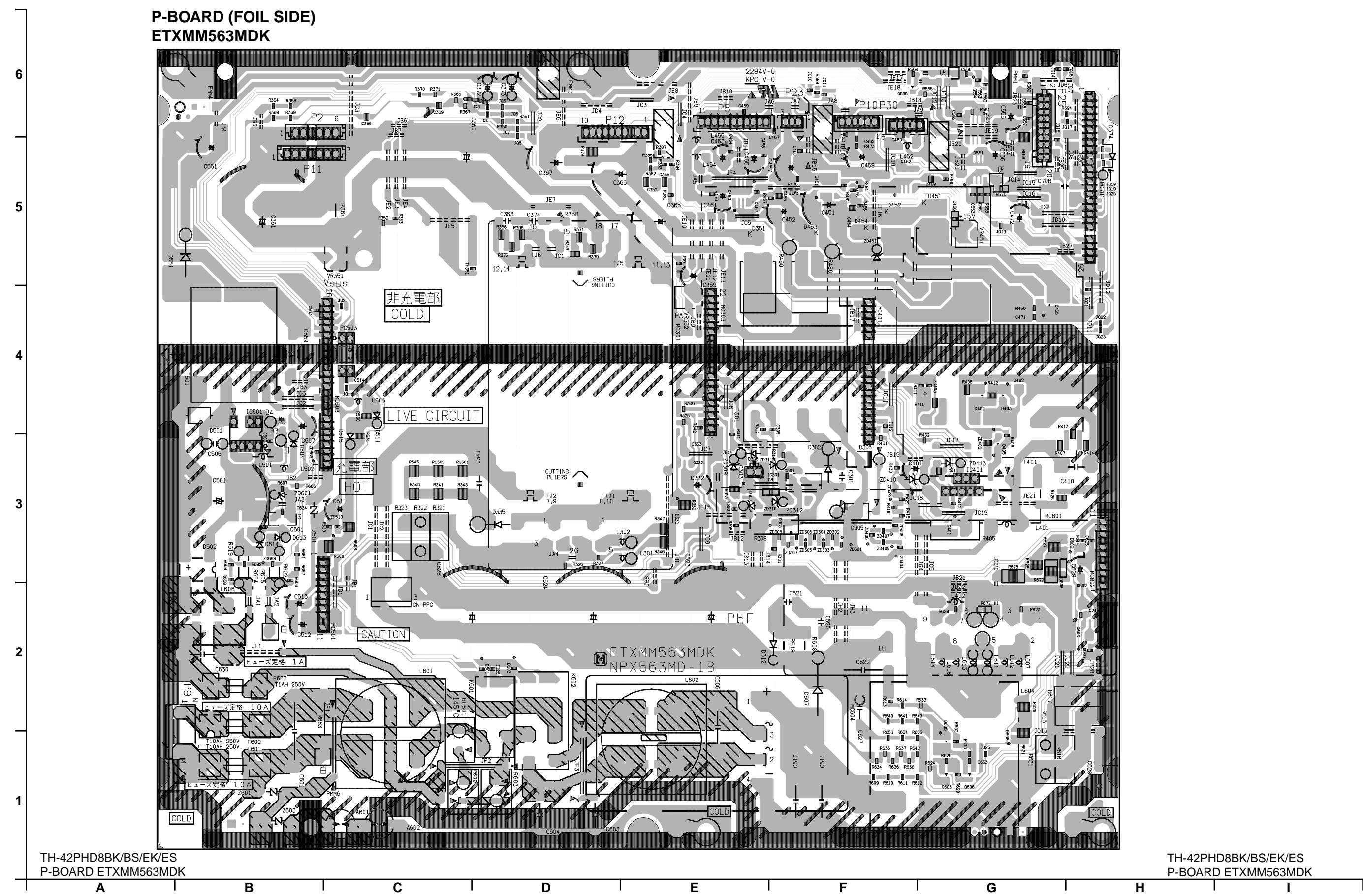
Note :

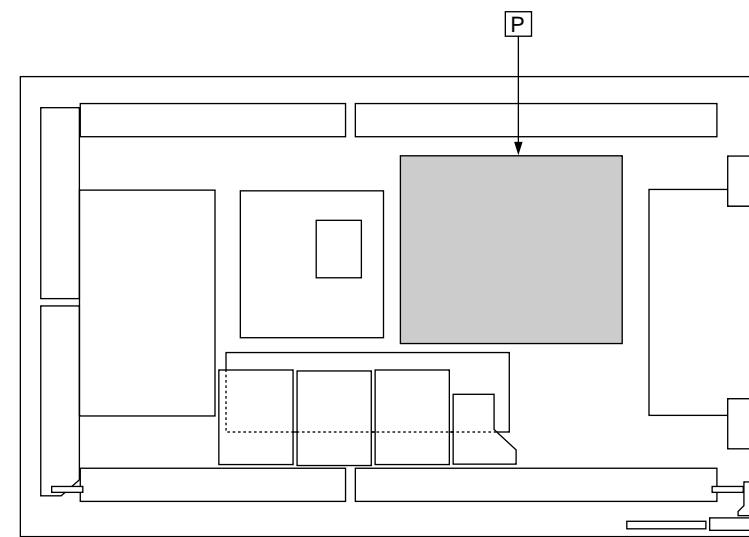
When both main unit buttons and remote control are disabled due to the "Button lock", "Remocon User level" or "RemoteID" adjustments, set all the values "Off" so that all the buttons are enabled again.

Press the "Volume down" button on main unit together with "R" button on the remote control and hold for more than 5 seconds. The "SHIPPING" menu is displayed and the lock is released when it disappears.

14 Circuit Board Layout

14.1. P-Board



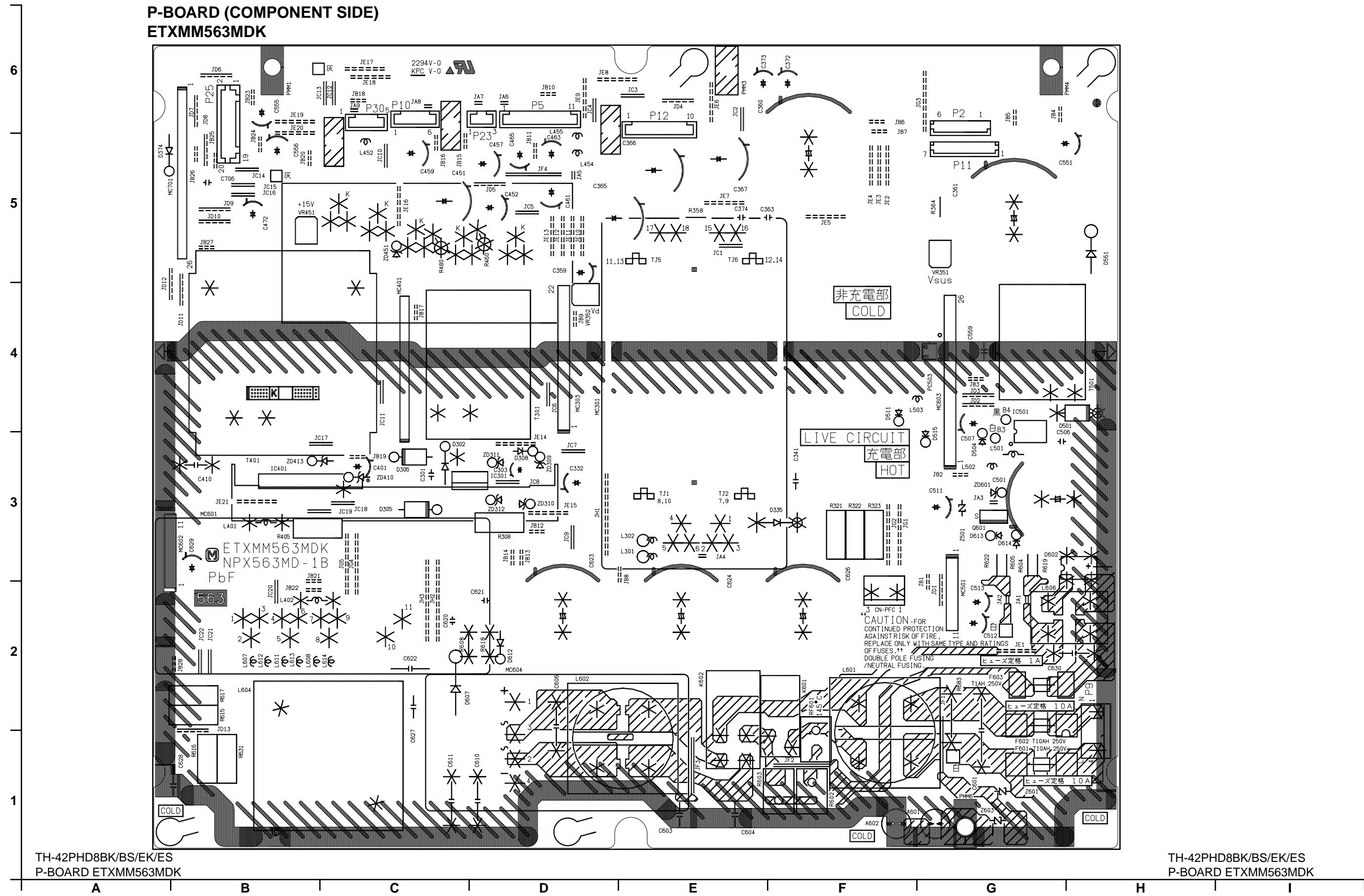
**Parts Location**

P-BOARD (FOIL SIDE)			
IC		TRANSISTOR	
IC301	E-3	Q332	E-3
IC401	G-3	Q333	E-3
IC501	B-3	Q402	G-4
MC301	D-4	Q451	F-5
MC303	E-4	Q453	E-5
MC401	F-4	Q551	G-5
MC501	B-2	Q554	G-6
MC601	G-2	Q555	F-6
MC602	H-3	Q555	G-6
MC603	C-4	Q602	H-3
MC604	E-1	Q603	H-2
MC701	H-5	Q605	G-1
		Q606	G-1

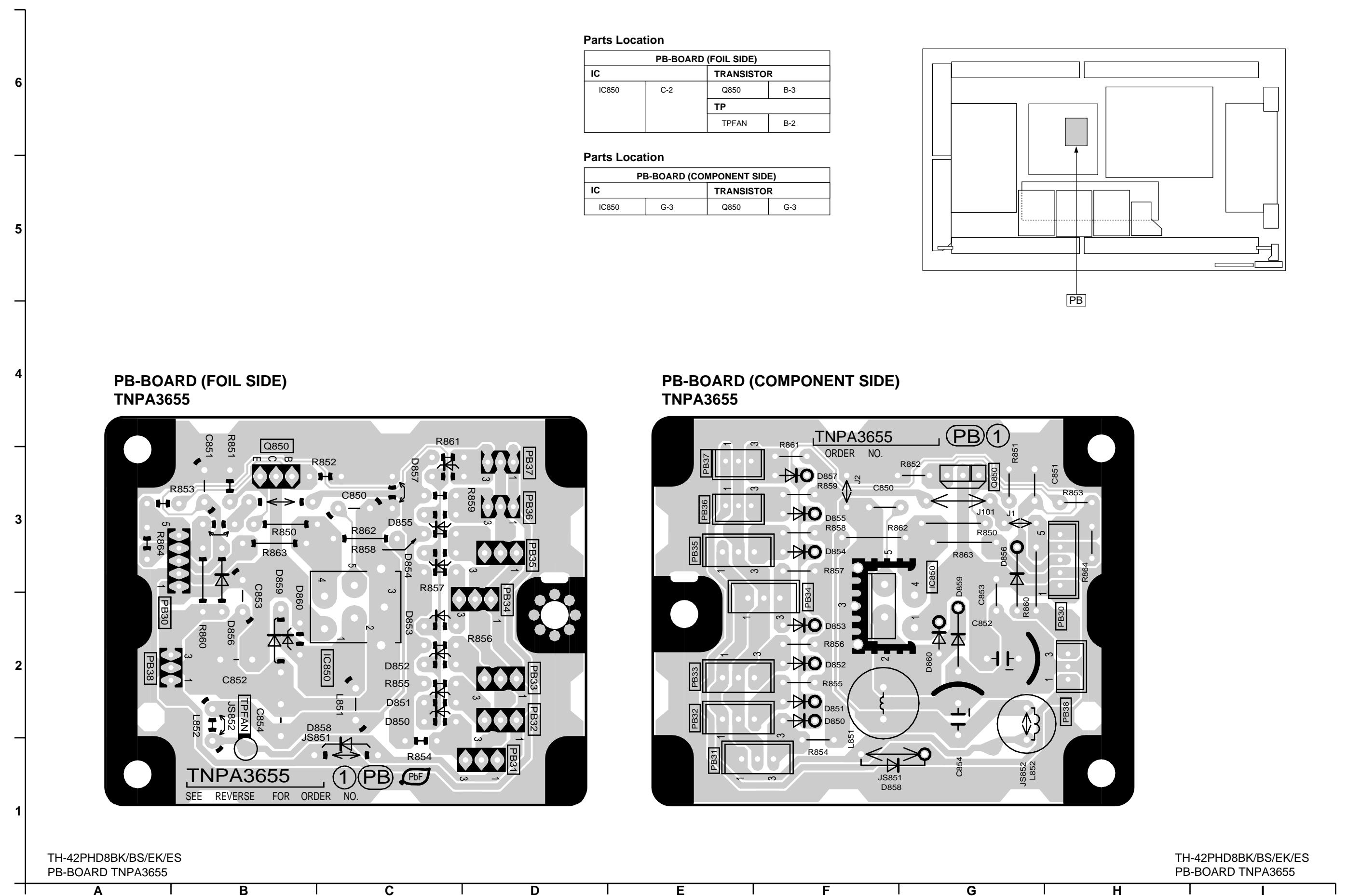
Parts Location

P-BOARD (COMPONENT SIDE)			
IC		TRANSISTOR	
IC301	C-3	Q601	G-3
IC401	B-3		
IC501	G-3		
MC301	E-4		
MC303	D-4		
MC401	C-4		
MC501	G-2		
MC601	B-2		
MC602	A-3		
MC603	G-4		
MC604	D-1		
MC701	A-5		

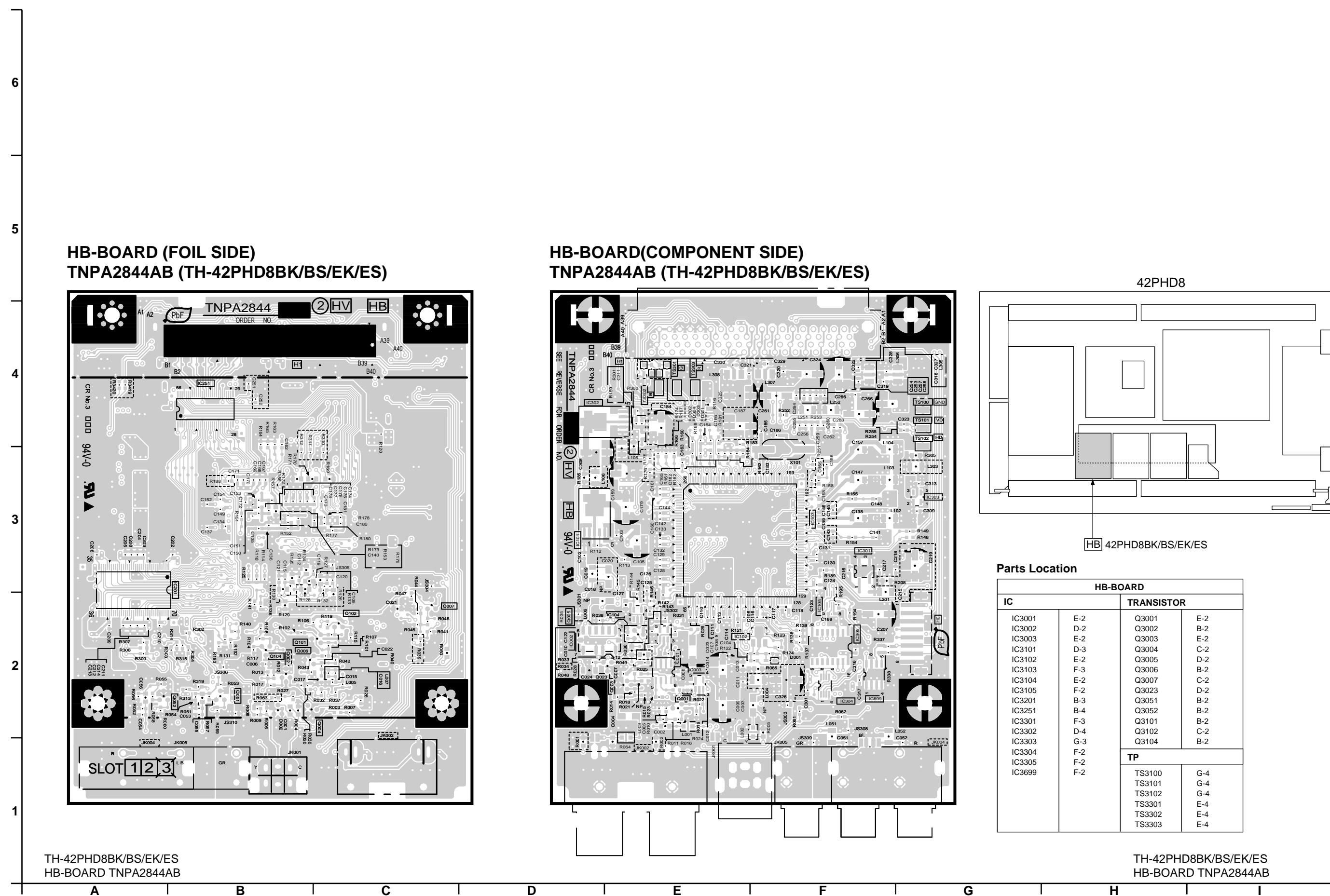
P-BOARD (COMPONENT SIDE)
ETXMM563MDK



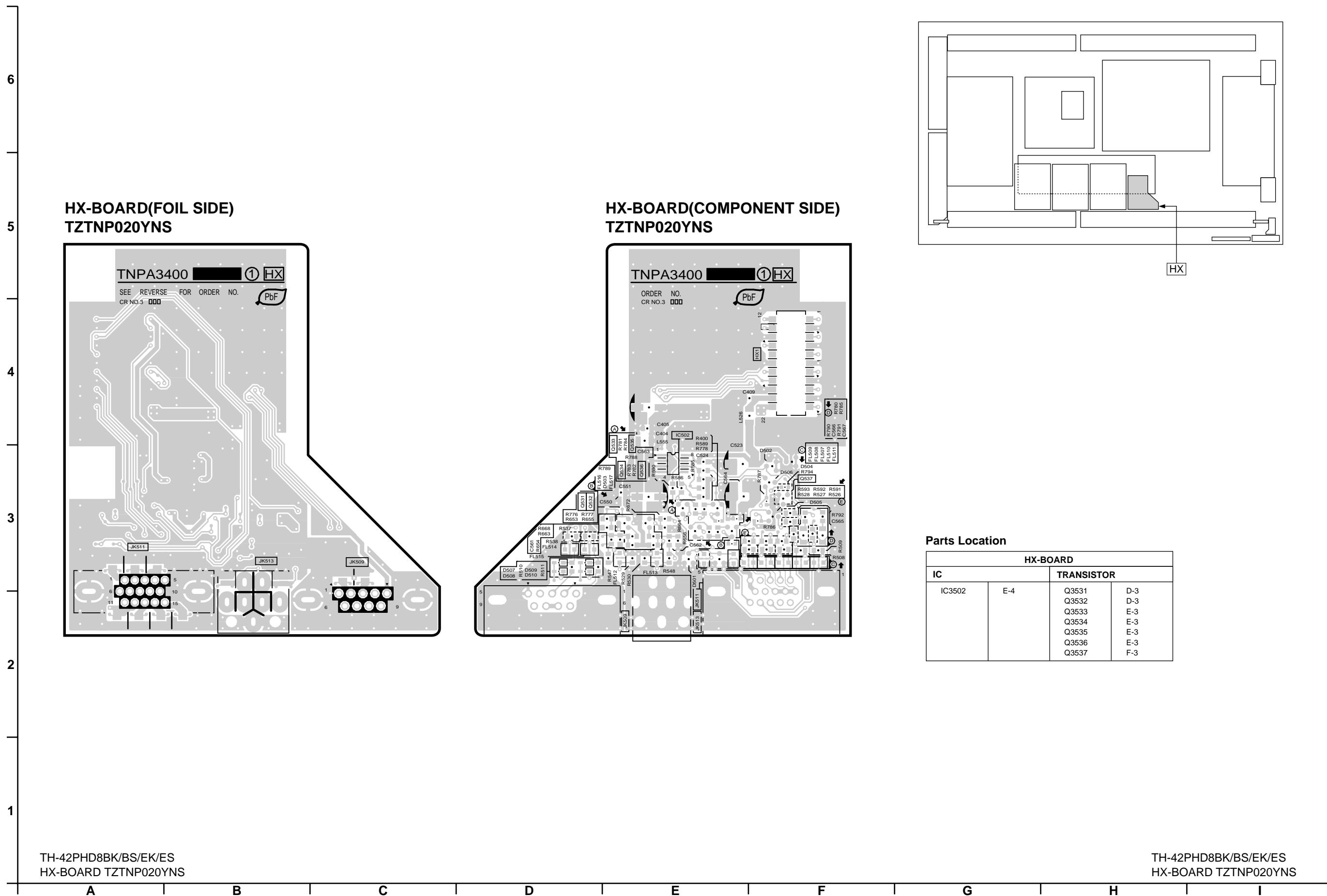
14.2. PB-Board



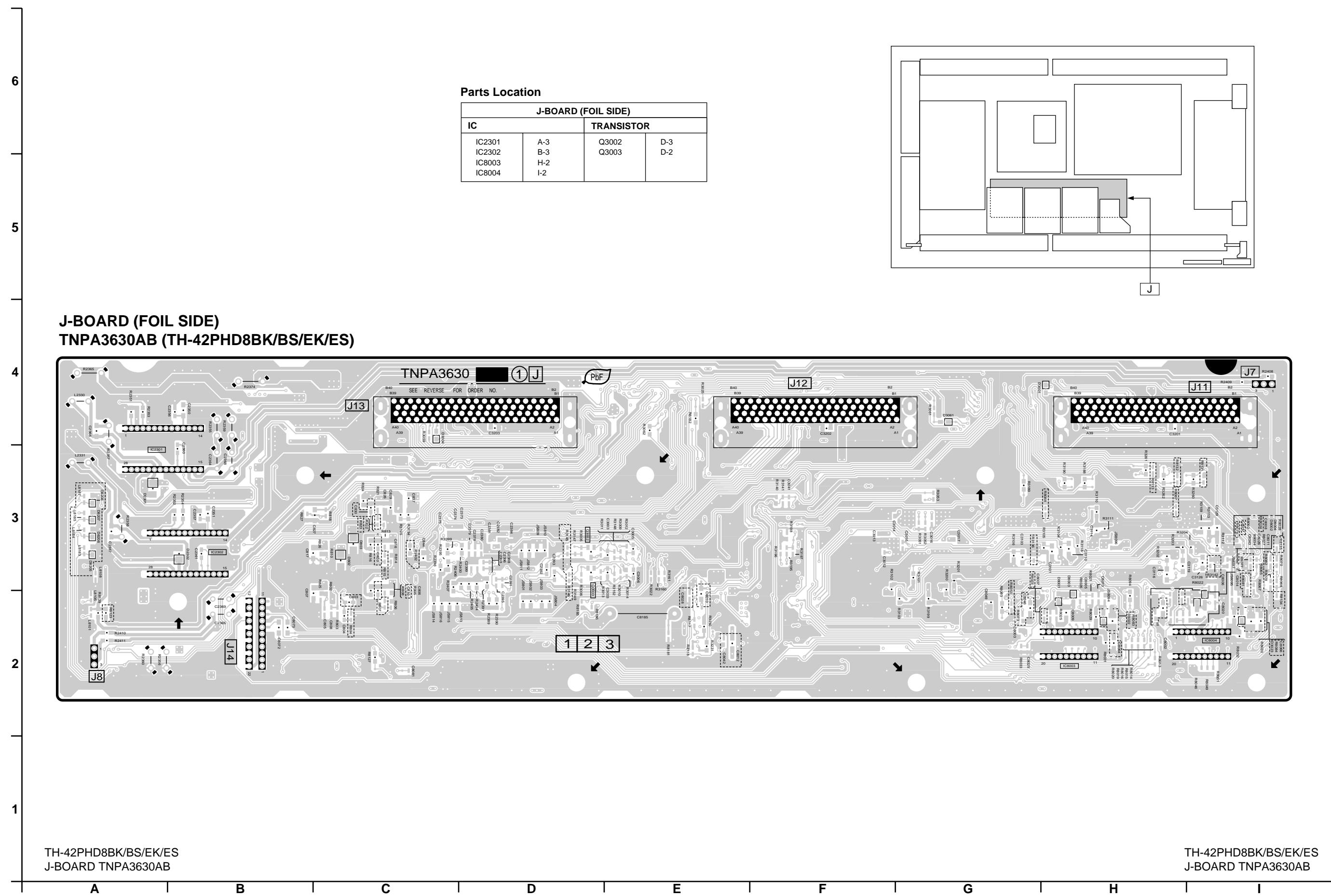
14.3. HB-Board



14.4. HX-Board



14.5. J-Board

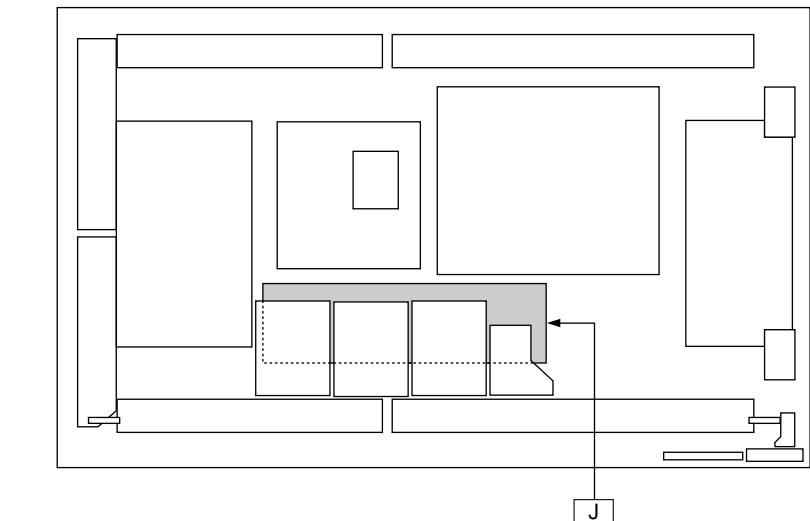


TH-42PHD8BK/BS/EK/ES
J-BOARD TNPA3630AB

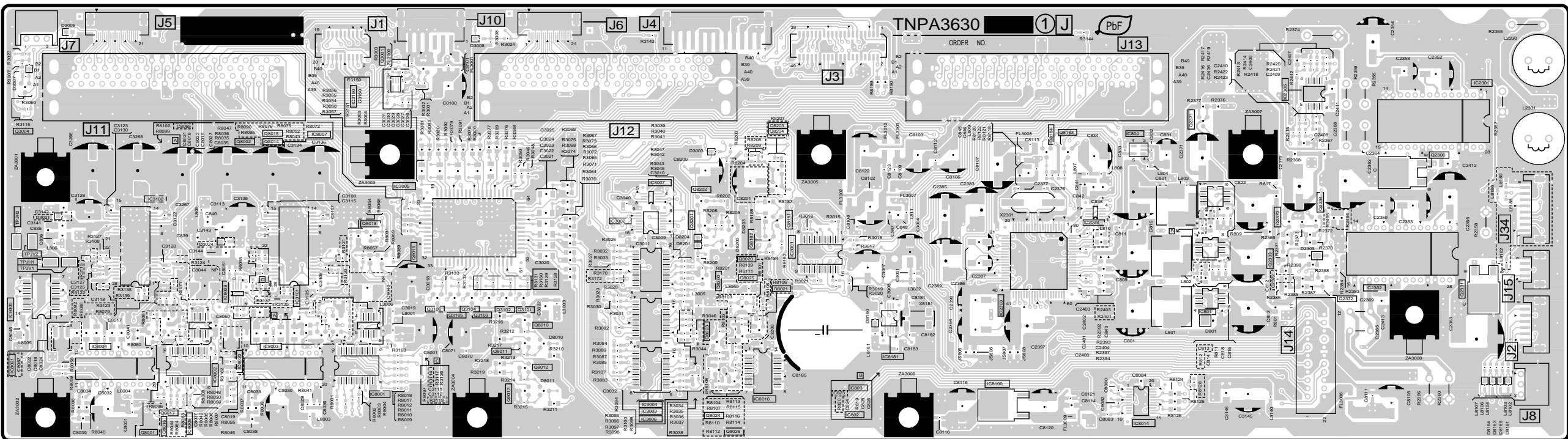
TH-42PHD8BK/BS/EK/ES
J-BOARD TNPA3630AB

Parts Location

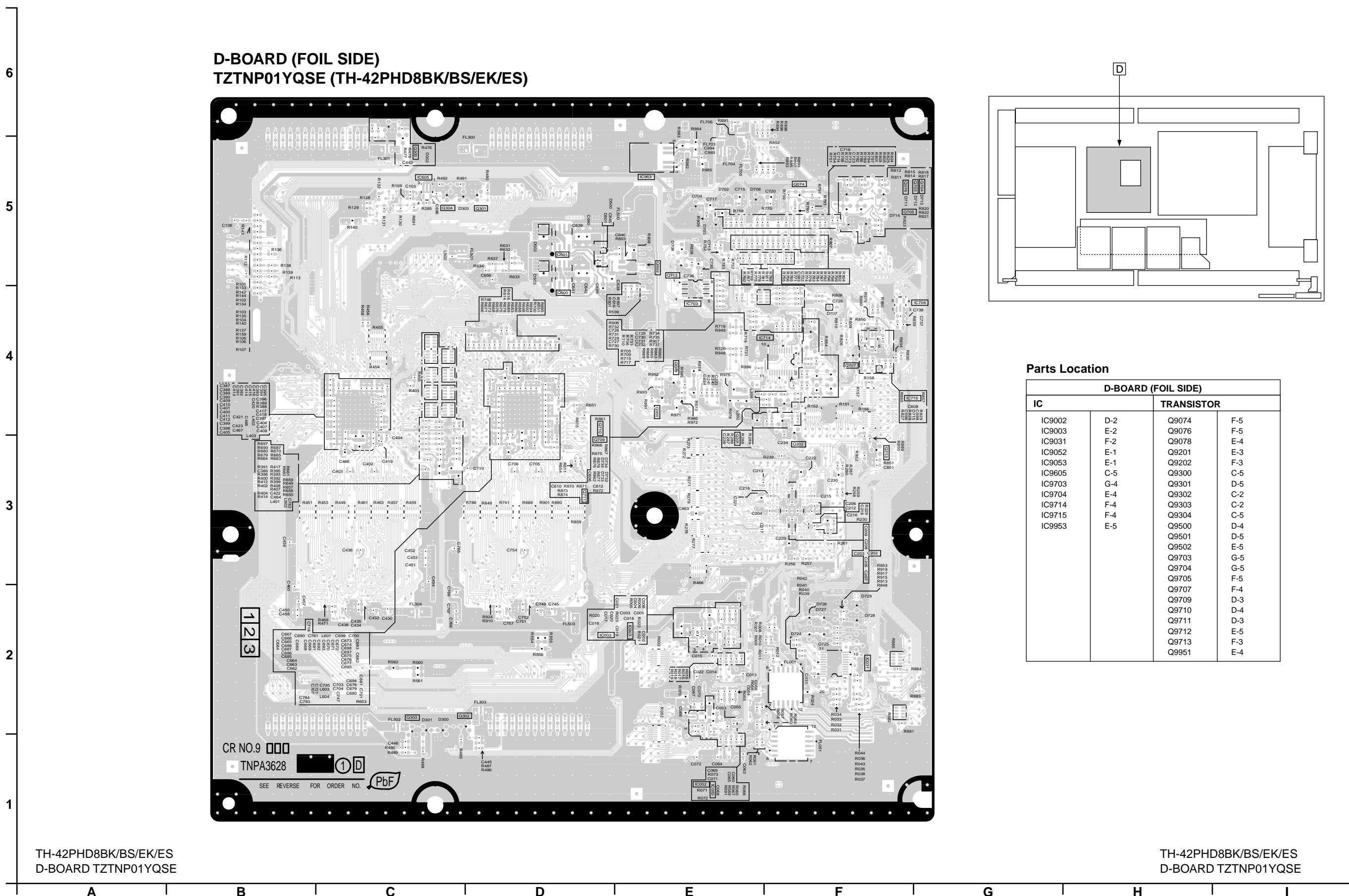
		J-BOARD (COMPONENT SIDE)					
IC		IC803	B-2	Q3004	A-3	Q8024	E-2
IC801	G-2	IC8004	A-2	Q3101	D-2	Q8025	E-3
IC802	E-2	IC8005	A-2	Q3102	C-2	Q8026	E-2
IC803	E-2	IC8007	B-3	Q3103	C-2	Q8181	E-2
IC804	G-3	IC8008	B-2	Q3104	C-2	Q8182	E-3
IC2301	I-4	IC8009	B-3	Q3105	C-2	Q8183	F-3
IC2302	H-3	IC8014	G-2	Q3106	C-2	Q8184	F-3
IC2303	F-2	IC8016	E-2	Q8001	B-2	Q8200	E-3
IC2305	H-4	IC8020	B-2	Q8002	B-3	Q8201	D-3
IC3001	E-3	IC8021	A-2	Q8010	D-2	Q8202	E-3
IC3002	D-3	IC8100	F-2	Q8011	C-2	Q8203	E-3
IC3003	D-2	IC8181	F-2	Q8012	D-2	Q8204	E-3
IC3004	D-2			Q8013	C-2		
IC3005	C-3			Q8014	B-3		
IC3006	D-2	Q2300	H-3	Q8015	B-3		
IC3007	D-3	Q2331	I-2	Q8016	B-2		
IC3008	G-3	Q2333	H-3	Q8017	B-2		
IC3101	B-3	Q2334	H-3	Q8018	C-3		
IC3102	B-3	Q2370	H-3	Q8019	C-3		
IC3150	C-4	Q2371	G-2	Q8020	E-3		
IC8001	C-2	Q2372	H-2	Q8021	E-3		
IC8002	B-2	Q3001	C-4	Q8023	E-2		



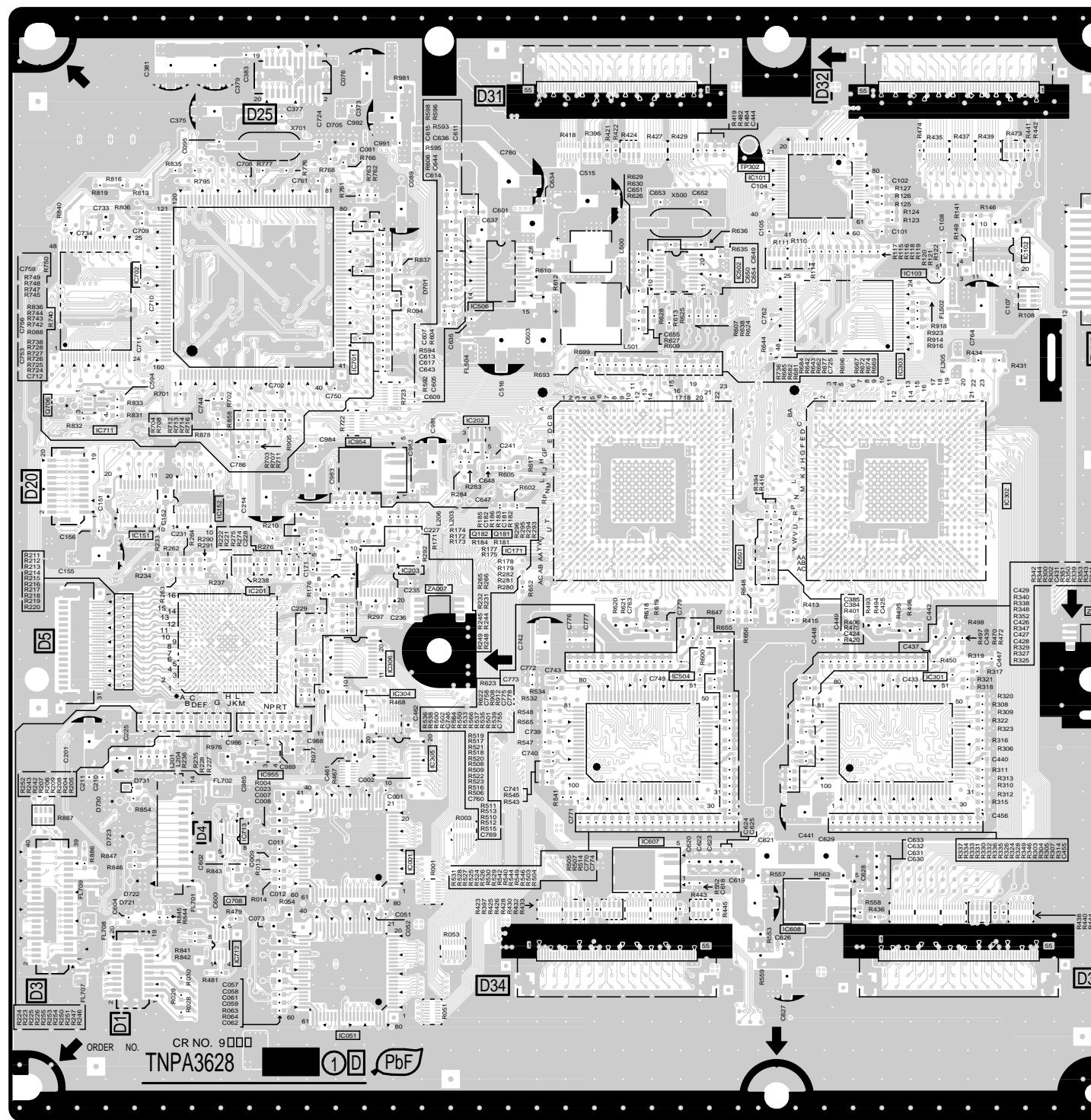
J-BOARD (COMPONENT SIDE)
TNPA3630AB (TH-42PHD8BK/BS/EK/ES)



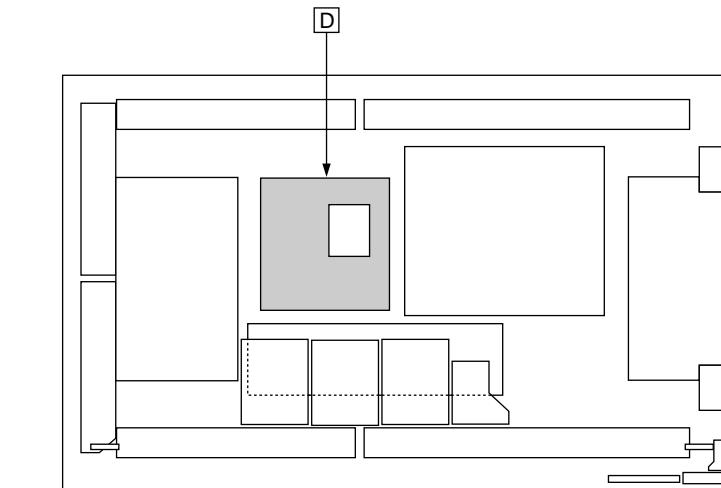
14.6. D-Board



D-BOARD (COMPONENT SIDE)
TZTNP01YQSE (TH-42PHD8BK/BS/EK/ES)



TH-42PHD8BK/BS/EK/ES
D-BOARD TZTNP01YQSE



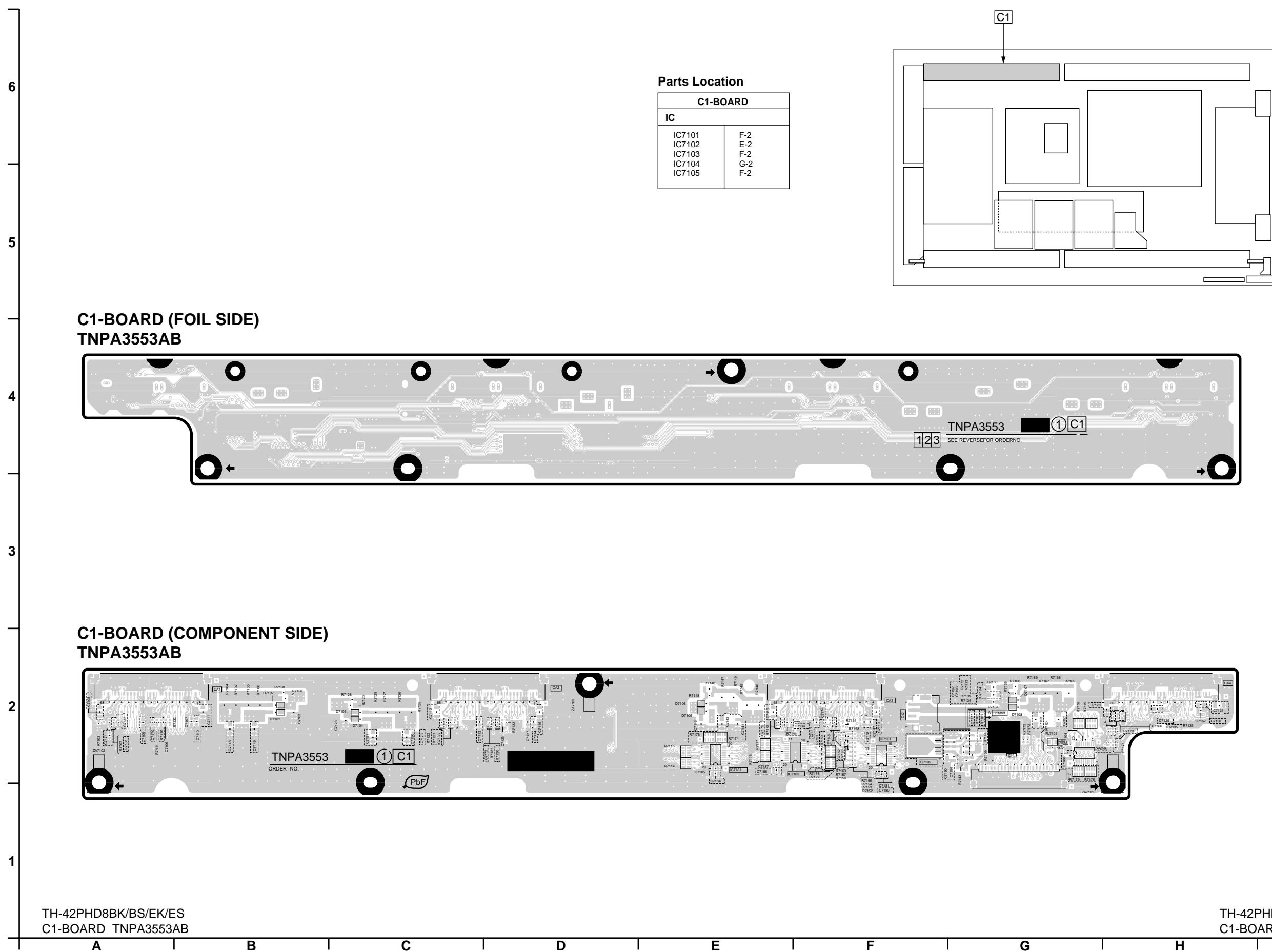
Parts Location

D-BOARD (COMPONENT SIDE)			
IC		IC	
IC9001	D-2	IC9607	E-2
IC9051	C-1	IC9608	E-2
IC9101	E-5	IC9701	C-4
IC9102	F-5	IC9702	B-5
IC9103	F-5	IC9711	B-4
IC9151	B-3	IC9712	C-2
IC9152	C-4	IC9713	C-2
IC9171	D-3	IC9954	C-4
IC9201	C-3	IC9955	C-2
IC9202	D-4		
IC9203	D-3		
IC9301	F-3		
IC9302	F-4		
IC9303	F-4		
IC9304	C-3		
IC9305	D-2		
IC9306	C-3		
IC9501	E-3		
IC9502	E-5		
IC9504	E-3		
IC9506	D-4		

TRANSISTOR	
Q9181	D-3
Q9182	D-3
IC9203	
IC9301	
IC9302	
IC9303	
IC9304	
IC9305	
IC9306	
IC9501	
IC9502	
IC9504	
IC9506	

TP	
TP302	E-5

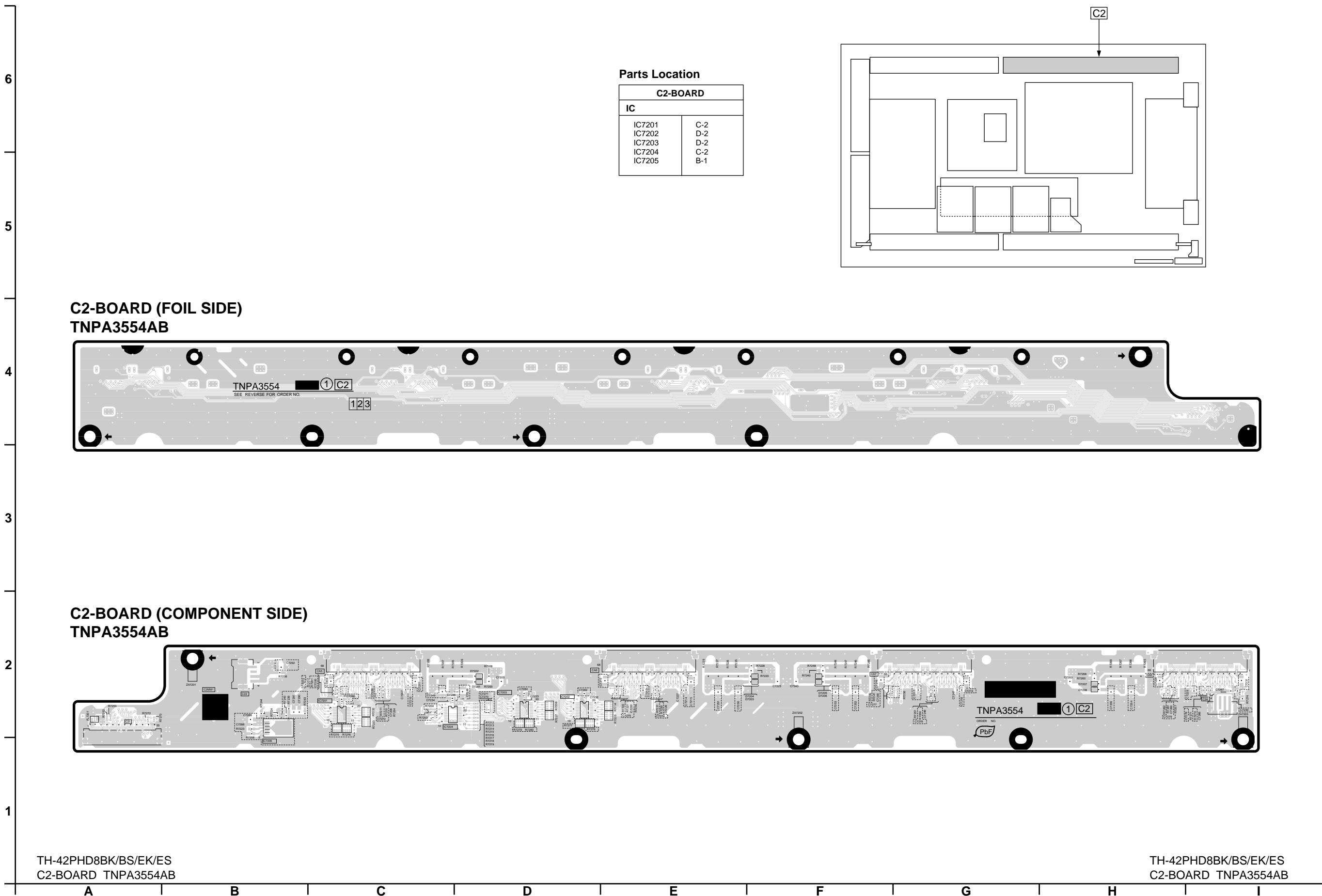
14.7. C1-Board



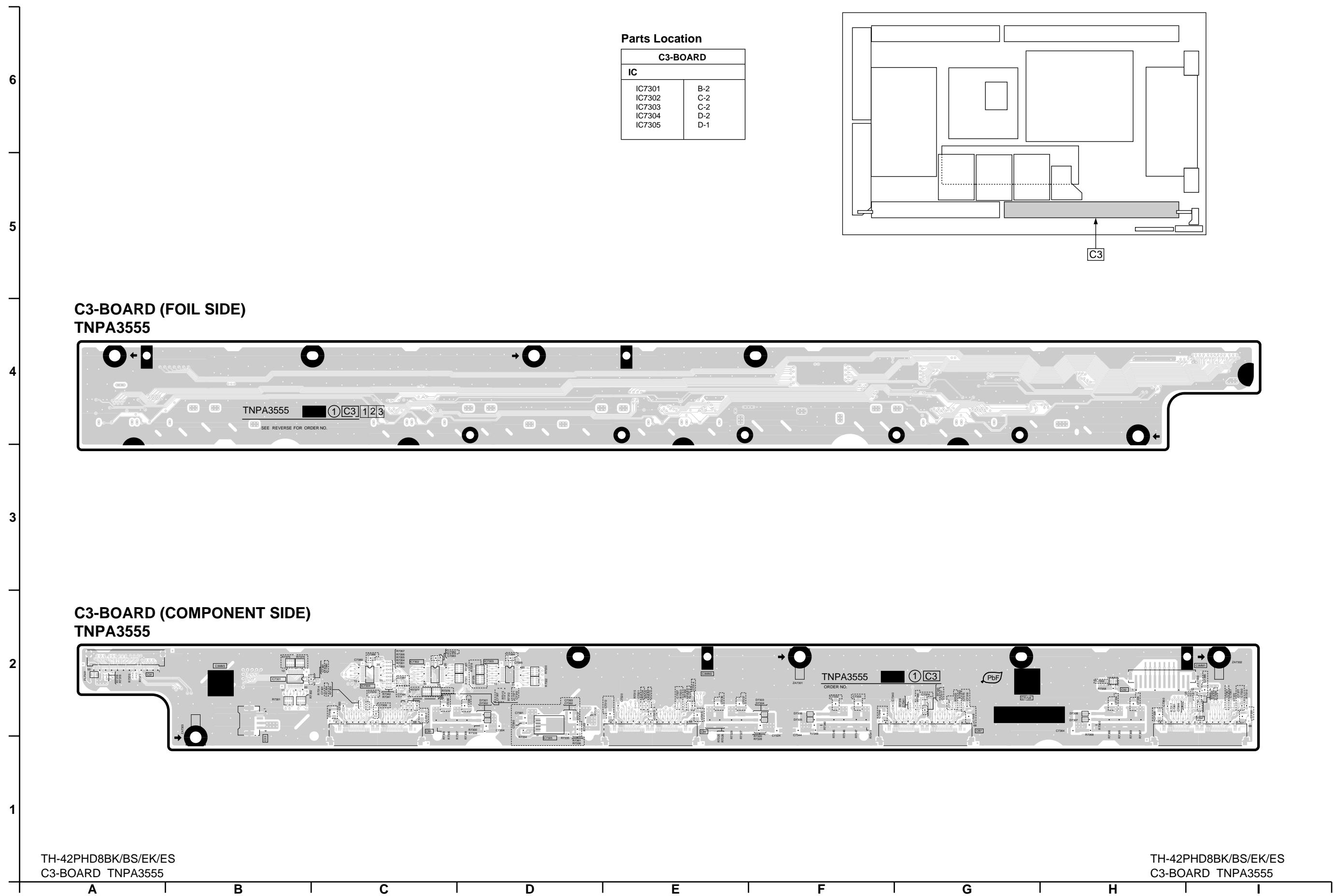
TH-42PHD8BK/BS/EK/ES
C1-BOARD TNPA3553AB

TH-42PHD8BK/BS/EK/ES
C1-BOARD TNPA3553AB

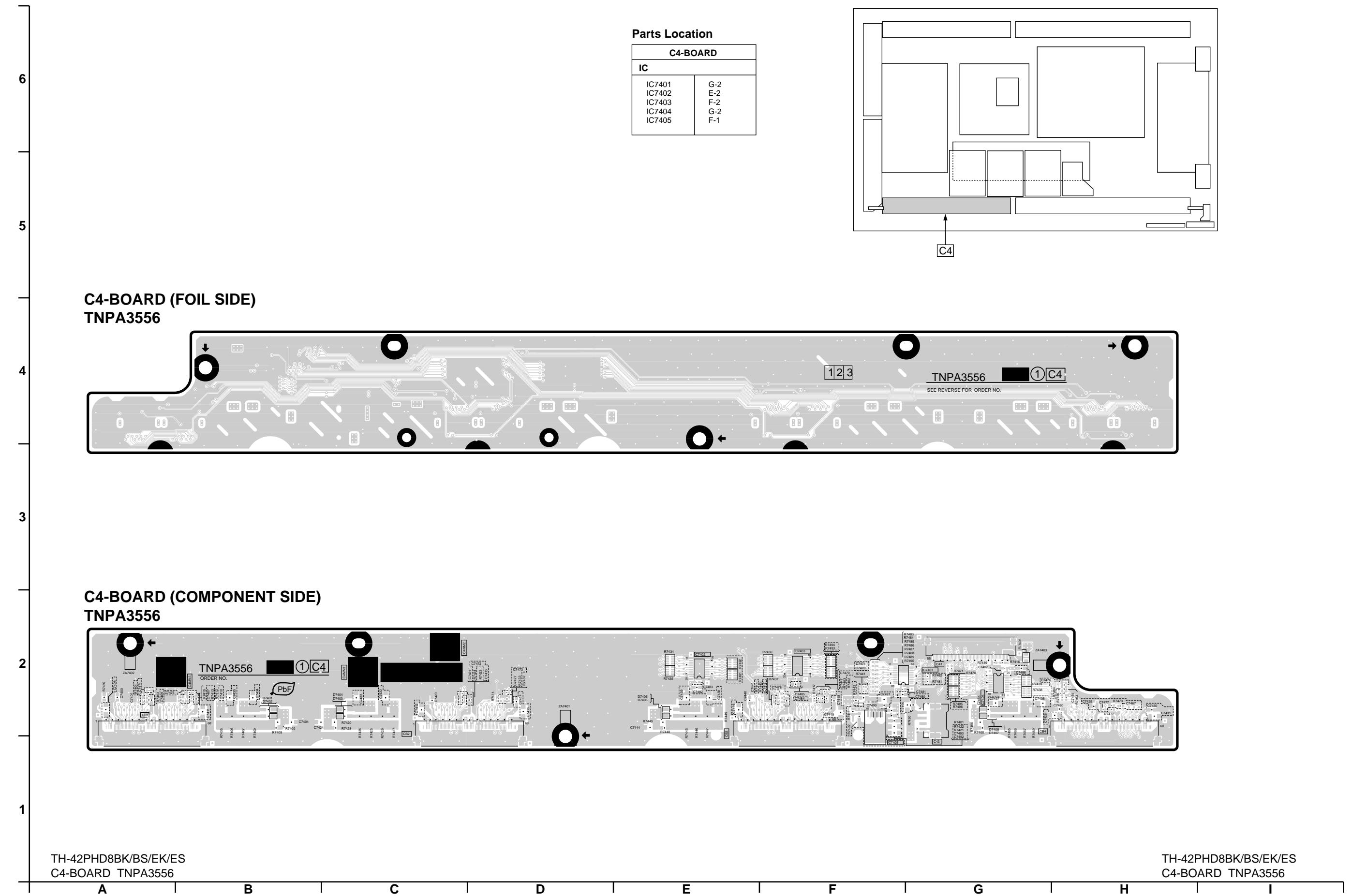
14.8. C2-Board



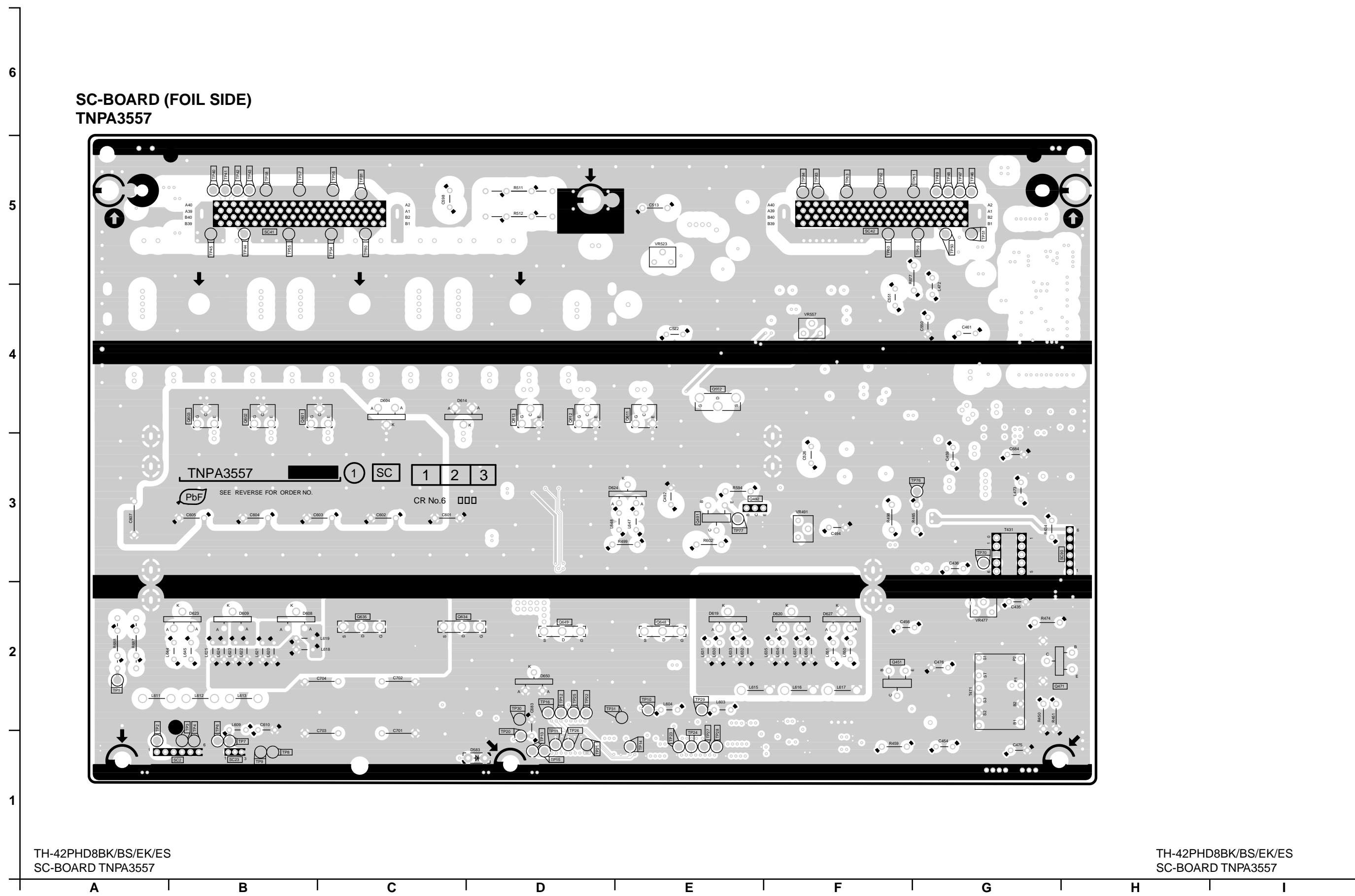
14.9. C3-Board

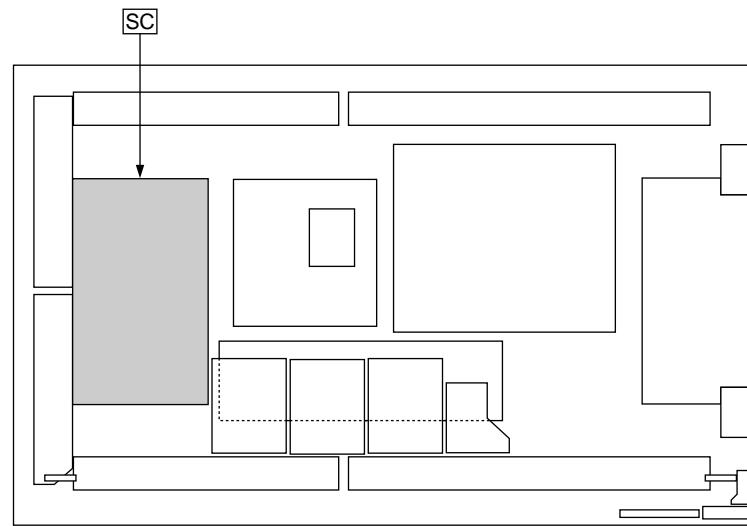


14.10. C4-Board



14.11. SC-Board



**Parts Location**

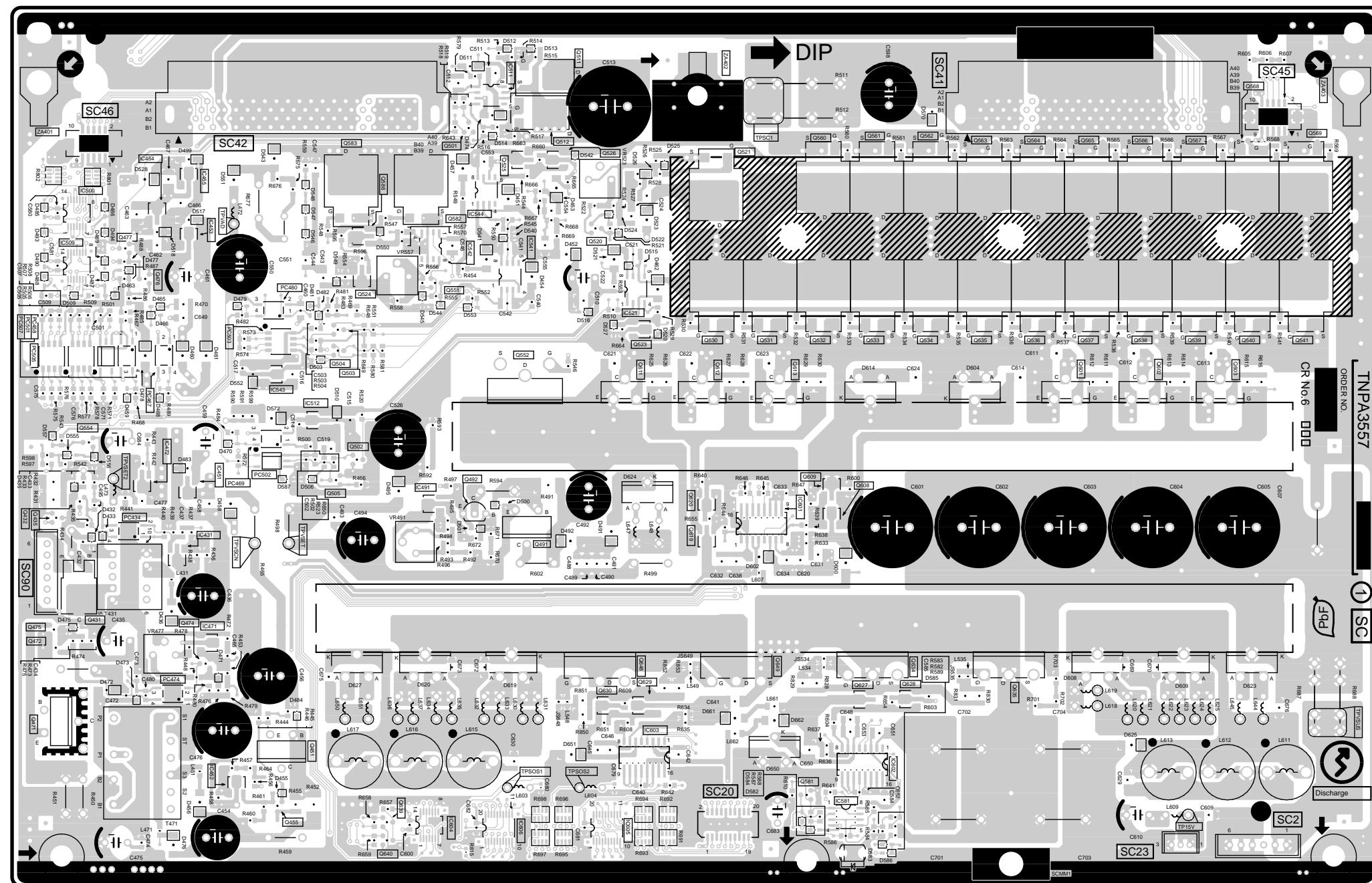
SC-BOARD (FOIL SIDE)				
TRANSISTOR	TP			
Q6451	F-2	TP1	A-2	TP41 B-5
Q6471	G-2	TP2	A-1	TP42 B-5
Q6491	E-3	TP3	B-1	TP43 B-5
Q6492	E-3	TP4	B-1	TP44 B-5
Q6552	E-4	TP6	B-1	TP45 G-5
Q6601	C-4	TP7	B-1	TP46 G-5
Q6602	B-4	TP8	B-1	TP47 G-5
Q6603	B-4	TP9	B-1	TP48 G-5
Q6611	E-4	TP10	E-2	TP49 G-5
Q6612	D-4	TP11	D-1	TP50 G-5
Q6613	D-4	TP12	D-2	TP51 C-5
Q6634	D-2	TP13	D-1	TP54 B-5
Q6635	C-2	TP14	E-1	TP55 C-5
Q6648	E-2	TP15	D-1	TP56 B-5
Q6649	D-2	TP16	D-2	TP57 B-5
		TP20	D-1	TP58 B-5
		TP21	D-1	TP59 G-5
		TP22	D-2	TP60 F-5
		TP23	E-1	TP61 G-5
		TP24	E-1	TP62 F-5
		TP25	D-2	TP63 F-5
		TP26	D-1	TP70 G-3
		TP27	E-1	TP76 G-3
		TP28	E-1	TP77 E-3
		TP29	E-2	TP80 C-5
		TP30	D-2	TP81 C-5
		TP31	E-2	TP83 F-5
				TP84 F-5

Parts Location

SC-BOARD (COMPONENT SIDE)				
IC	TRANSISTOR			
IC6431	B-3	Q6431	A-3	Q6533 E-4
IC6451	B-3	Q6432	A-3	Q6534 F-4
IC6453	B-4	Q6435	A-3	Q6535 F-4
IC6454	B-4	Q6451	B-2	Q6536 F-4
IC6455	B-5	Q6455	B-2	Q6537 G-4
IC6462	B-2	Q6471	A-2	Q6538 G-4
IC6471	B-2	Q6472	A-2	Q6539 G-4
IC6472	B-3	Q6474	B-2	Q6540 G-4
IC6491	C-3	Q6475	A-2	Q6541 G-4
IC6500	A-5	Q6476	B-4	Q6551 C-4
IC6509	A-4	Q6477	A-4	Q6552 C-4
IC6511	C-5	Q6491	D-3	Q6554 A-3
IC6512	B-3	Q6492	C-3	Q6560 E-5
IC6521	D-4	Q6502	C-3	Q6561 E-5
IC6541	C-4	Q6503	C-4	Q6562 F-5
IC6542	C-4	Q6504	C-4	Q6563 F-5
IC6543	B-4	Q6506	C-3	Q6564 F-5
IC6544	C-5	Q6511	D-5	Q6565 F-5
IC6581	E-1	Q6512	D-5	Q6566 G-5
IC6601	E-3	Q6520	D-4	Q6567 G-5
IC6602	E-2	Q6521	D-5	Q6568 G-5
IC6603	D-2	Q6523	D-4	Q6569 G-5
IC6604	C-1	Q6524	C-4	TP15V TPSC1
IC6605	D-1	Q6525	C-5	TPSOS1 TPSOS2
IC6606	C-1	Q6526	D-5	TPVAD TPVSCN
		Q6530	D-4	TPVSET TPVSET2
		Q6531	E-4	TPVSUS TPVSUS
		Q6532	E-4	H-2

6

SC-BOARD (COMPONENT SIDE)
TNPA3557



TH-42PHD8BK/BS/EK/ES
SC-BOARD TNPA3557

A

B

C

D

E

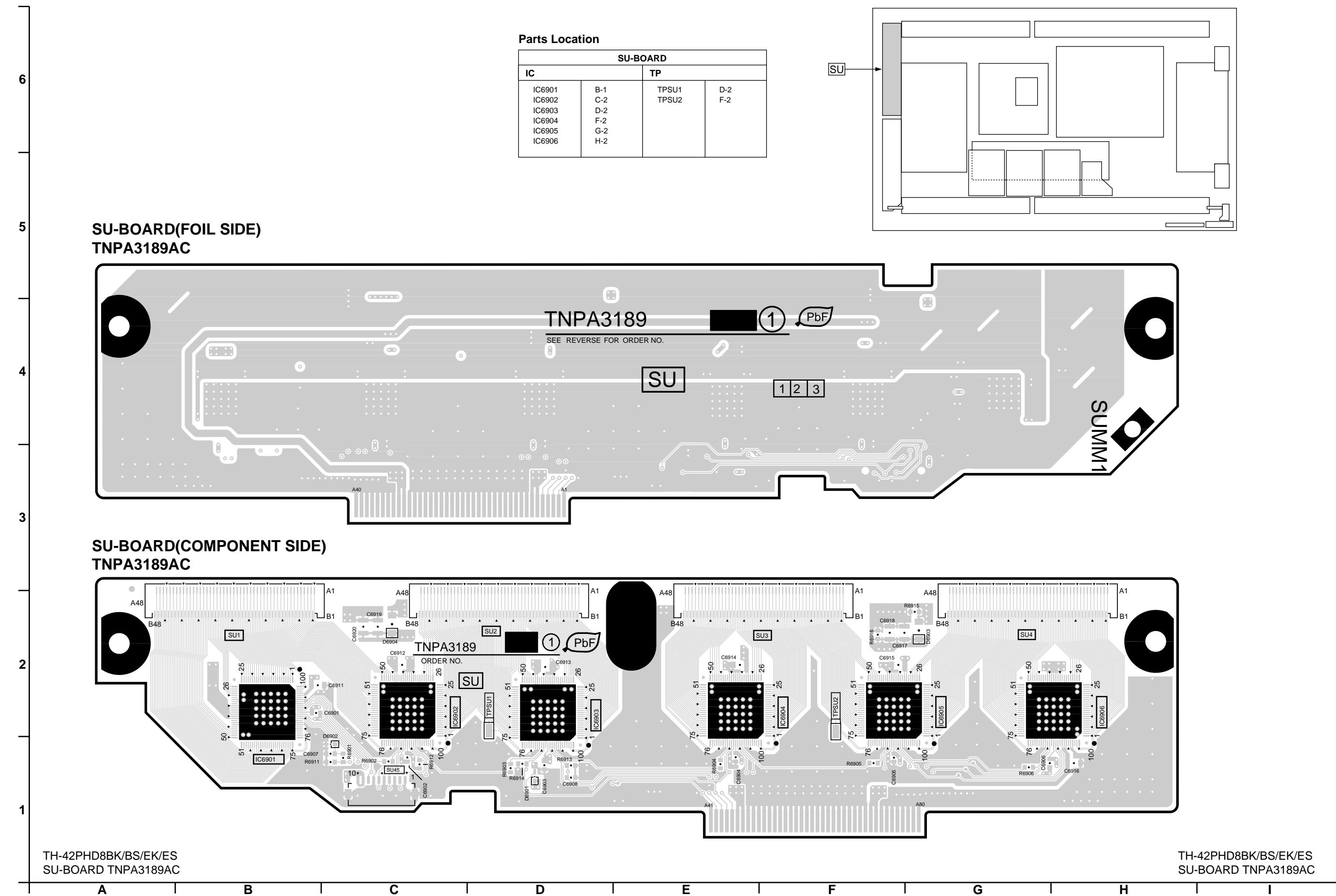
F

G

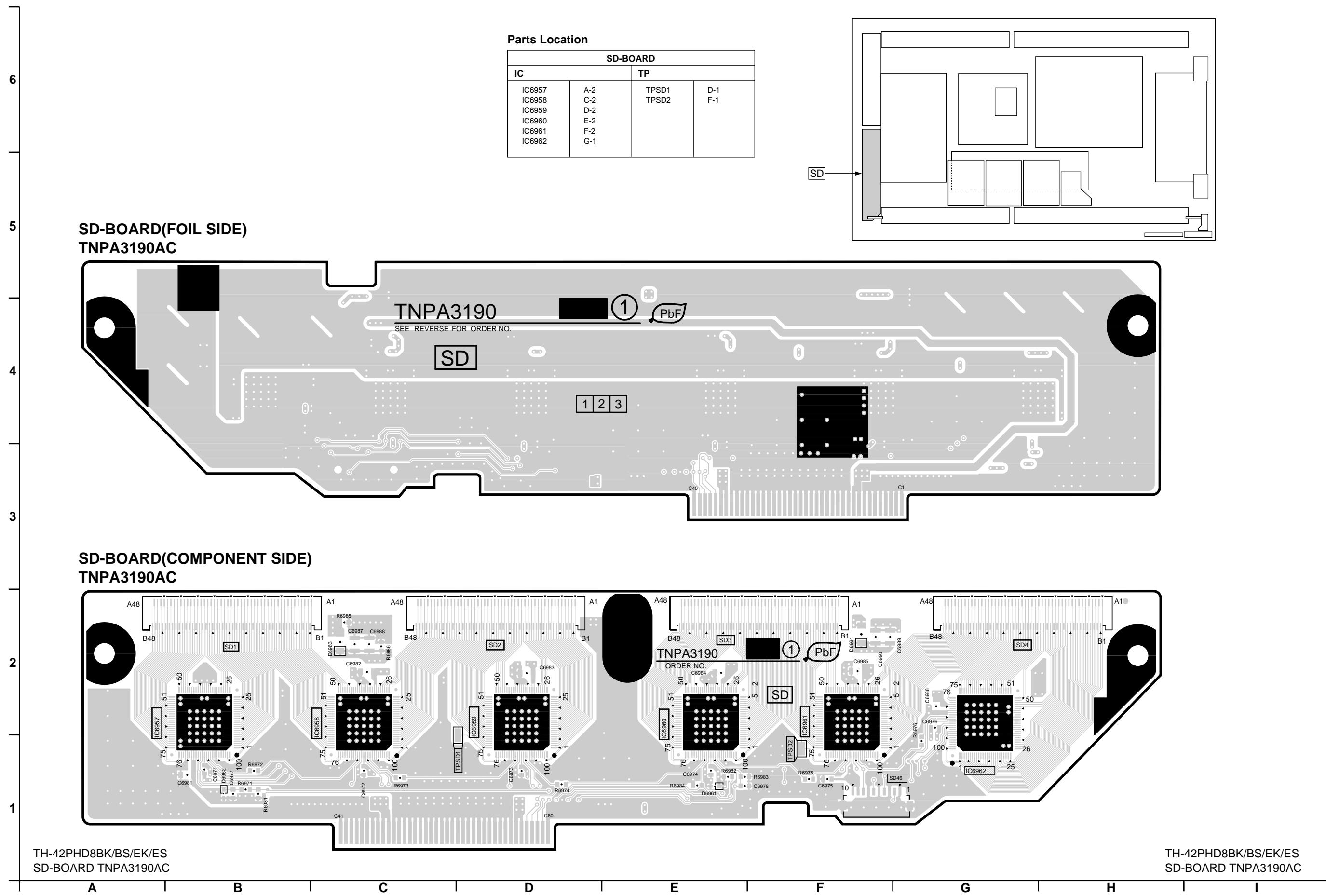
H

I

14.12. SU-Board

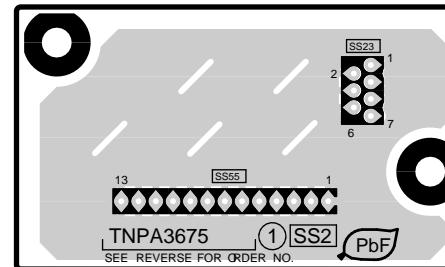


14.13. SD-Board

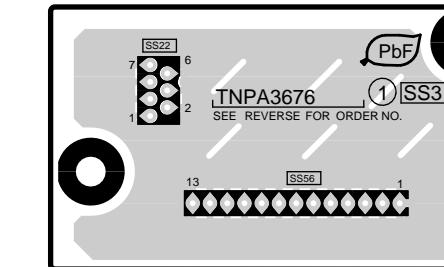


14.14. SS, SS2 and SS3-Board

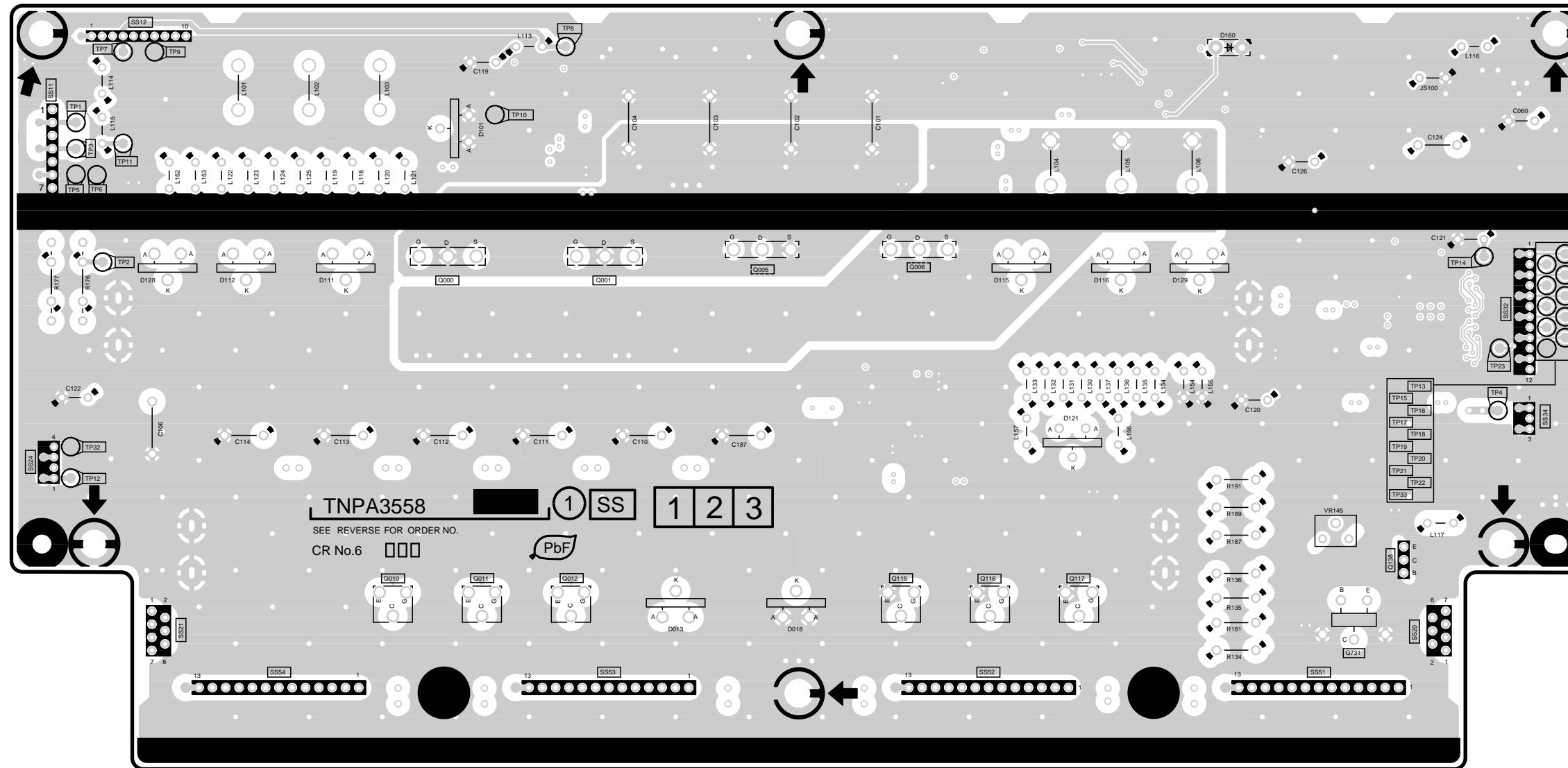
SS2-BOARD (FOIL SIDE)
TNPA3675



SS3-BOARD (FOIL SIDE)
TNPA3676

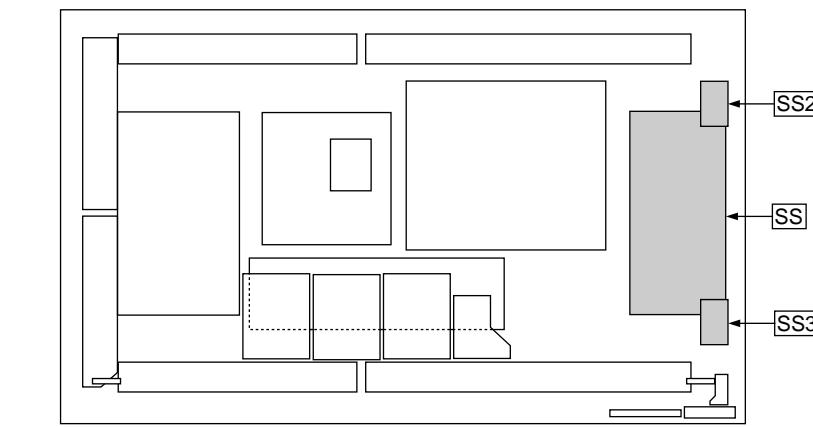


SS-BOARD (FOIL SIDE)
TNPA3558

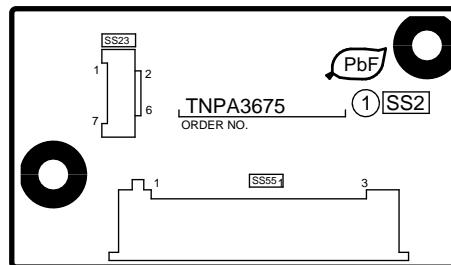


Parts Location

SS-BOARD (FOIL SIDE)		
TRANSISTOR		
Q6000	C-4	A-4
Q6001	D-4	B-5
Q6005	E-4	D-5
Q6006	E-4	B-5
Q6010	C-2	C-4
Q6011	C-2	B-4
Q6012	D-2	A-2
Q6115	E-2	H-4
Q6116	F-2	H-4
Q6117	F-2	H-4
Q6138	H-2	H-3
Q6731	G-2	H-3
TP		
TP1	A-4	
TP2	A-4	
TP3	A-4	
TP4	H-3	
TP5	A-4	
TP6		
TP7		
TP8		
TP9		
TP10		
TP11		
TP12		
TP13		
TP14		
TP15		
TP16		
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TP18		
TP19		
TP20		
TP21		
TP22		
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TP31		
TP32		
TP33		

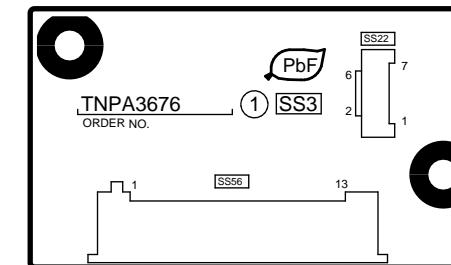


SS2-BOARD (COMPONENT SIDE)
TNPA3675



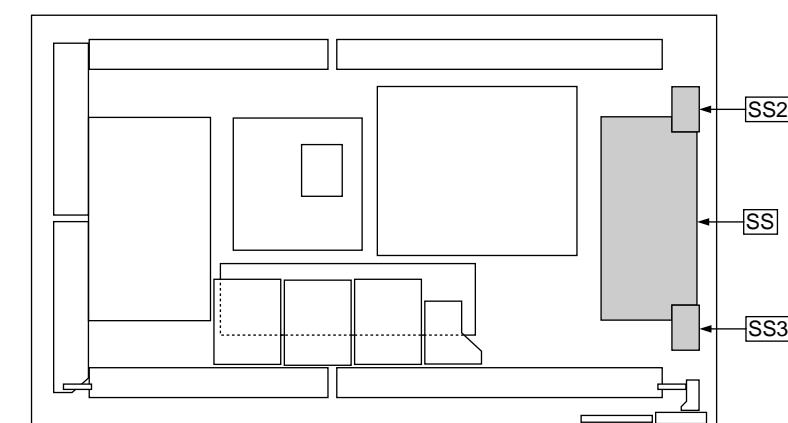
SS3-BOARD (COMPONENT SIDE)
TNPA3676

SS3-BOARD (COMPONENT SIDE)
TNPA3676

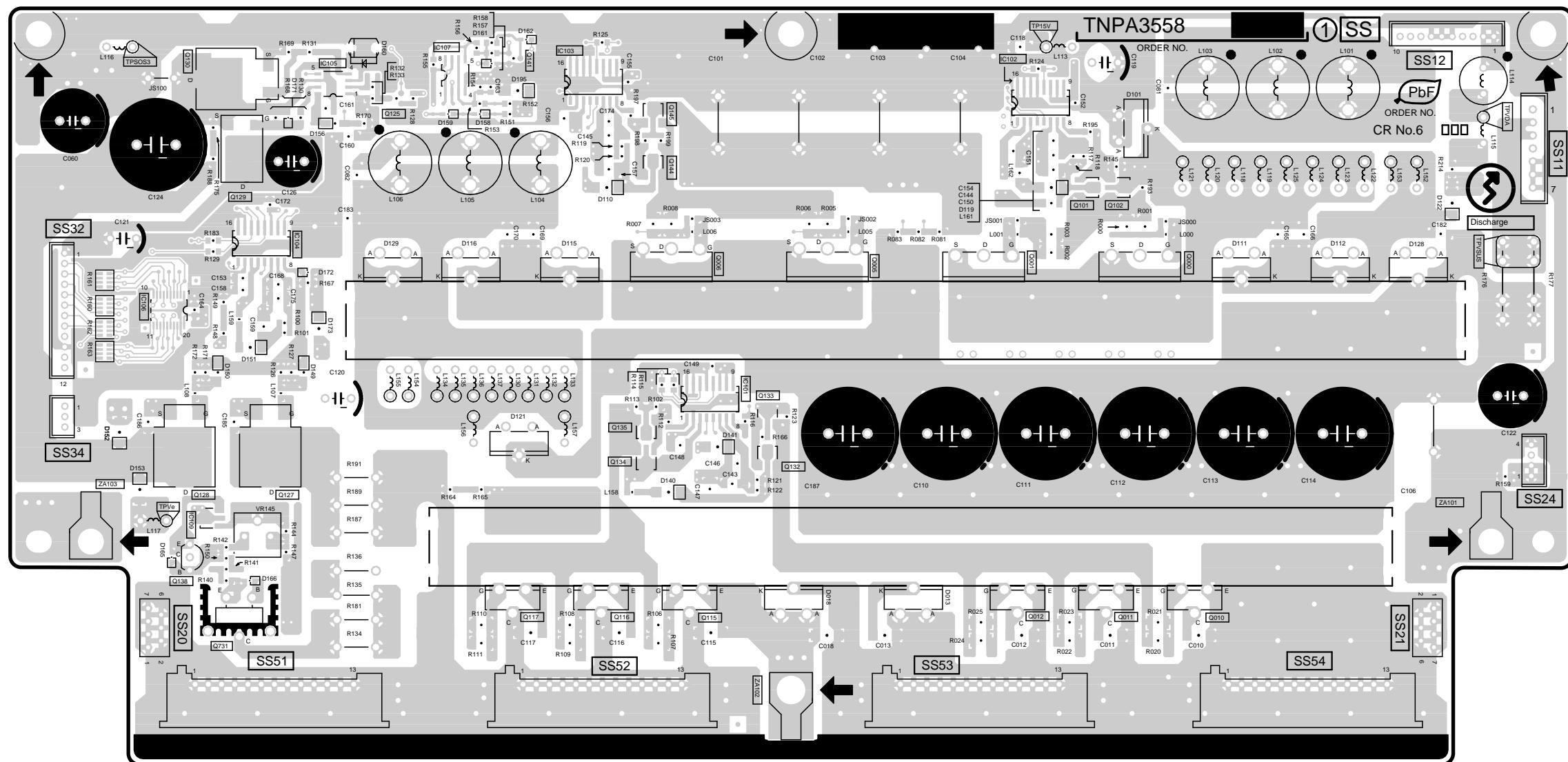


Parts Location

SS-BOARD (COMPONENT SIDE)		
IC		C-2
IC6101	D-3	C-4
IC6102	F-4	B-3
IC6103	D-4	B-3
IC6104	B-4	B-4
IC6105	C-4	E-3
IC6106	B-3	E-3
IC6107	C-4	D-3
IC6109	B-2	D-3
TRANSISTOR		
Q6000	F-4	
Q6001	F-4	
Q6005	E-4	
Q6006	D-4	
Q6010	G-2	
Q6011	F-2	
Q6012	F-2	
Q6101	F-4	
Q6102	F-4	
Q6115	D-2	
Q6116	D-2	
TP		
TP15V	F-5	
TPSOS3	B-5	
TPVDA	H-4	
TPVe	B-2	
TPVSUS	H-4	



SS-BOARD (COMPONENT SIDE)
TNPA3558

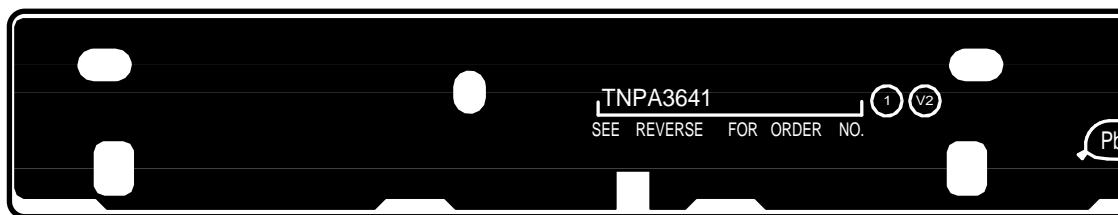


TH-42PHD8BK/BS/EK/ES
SS-BOARD TNPA3558
SS2-BOARD TNPA3675
SS3-BOARD TNPA3676

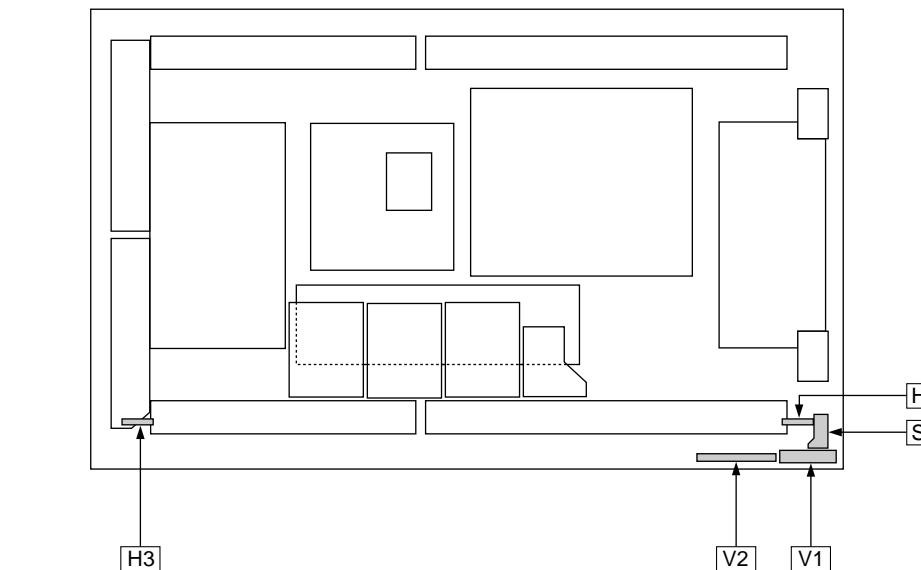
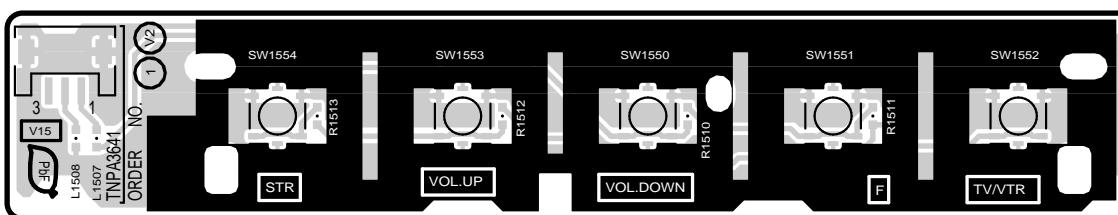
TH-42PHD8BK/BS/EK/ES
SS-BOARD TNPA3558
SS2-BOARD TNPA3675
SS3-BOARD TNPA3676

14.15. H3, S1, V1 and V2-Board

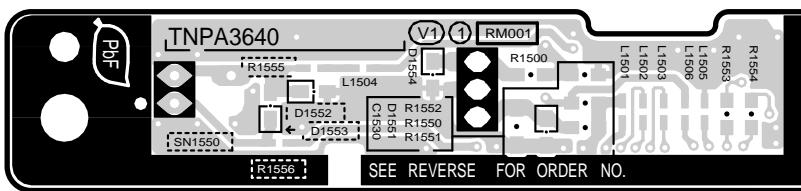
V2-BOARD(FOIL SIDE)
TNPA3641



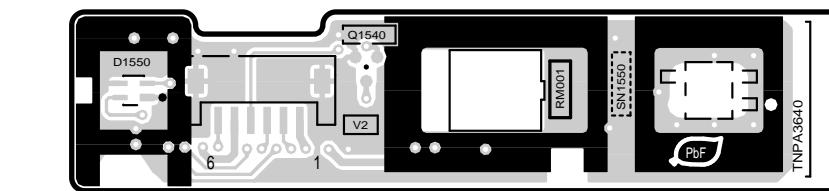
V2-BOARD(COMPONENT SIDE)
TNPA3641



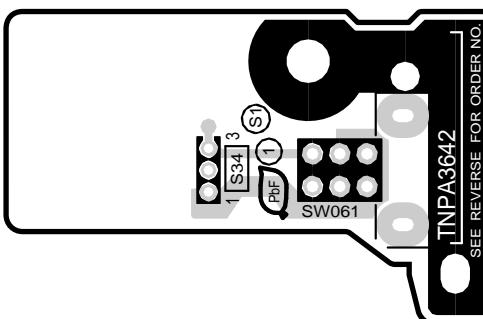
V1-BOARD(FOIL SIDE)
TNPA3640



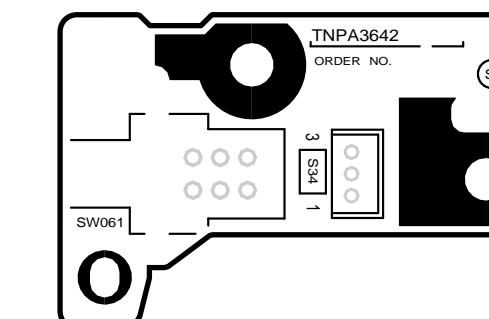
V1-BOARD(COMPONENT SIDE)
TNPA3640



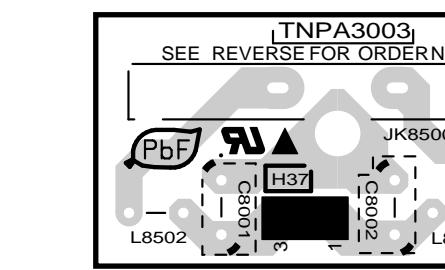
S1-BOARD(FOIL SIDE)
TNPA3642



S1-BOARD(COMPONENT SIDE)
TNPA3642



H3-BOARD
TNPA3003



TH-42PHD8BK/BS/EK/ES
V2-BOARD TNPA3641 V1-BOARD TNPA3640
S1-BOARD TNPA3642 H3-BOARD TNPA3003

TH-42PHD8BK/BS/EK/ES
V2-BOARD TNPA3641 V1-BOARD TNPA3640
S1-BOARD TNPA3642 H3-BOARD TNPA3003

15 Block and Schematic Diagram

15.1. Schematic Diagram Notes

Important Safety Notice

Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

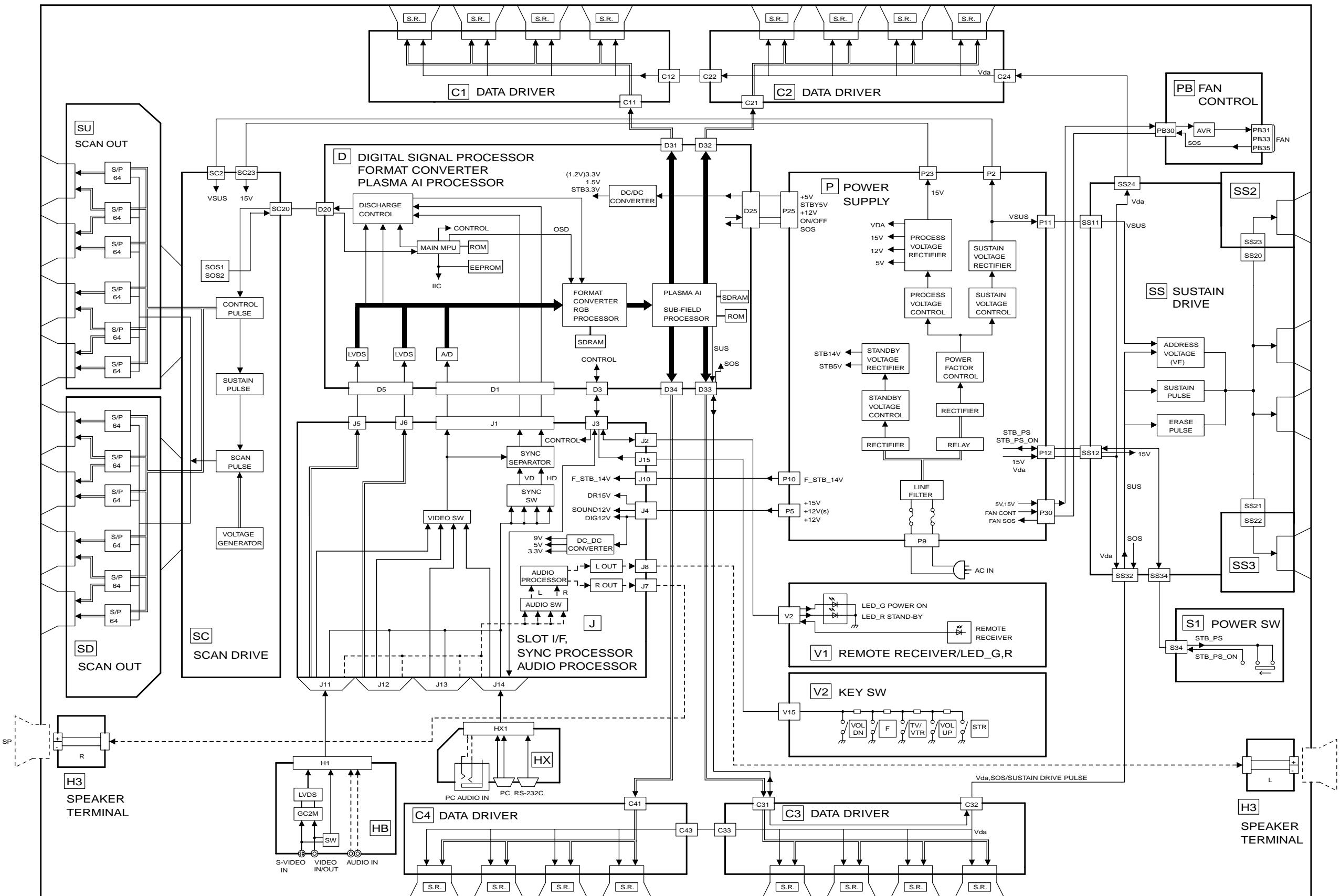
Notes:

1. **Resistor**
Unit of resistance is OHM [Ω] ($K=1,000$, $M=1,000,000$).
2. **Capacitor**
Unit of capacitance is μF , unless otherwise noted.
3. **Coil**
Unit of inductance is H, unless otherwise noted.
4. **Test Point**
 : Test Point position
5. **Earth Symbol**
 : Chassis Earth (Cold)  : Line Earth (Hot)
6. **Voltage Measurement**
Voltage is measured by a DC voltmeter.
Conditions of the measurement are the following:
 - Power Source AC220 - 240V, 50/60Hz
 - Receiving Signal Colour Bar signal (RF)
 - All customer's controls Maximum positions
7. When arrow mark (\nearrow) is found, connection is easily found from the direction of arrow.
8. Indicates the major signal flow.  Video \Rightarrow  Audio \Rightarrow
9. This schematic diagram is the latest at the time of printing and subject to change without notice.

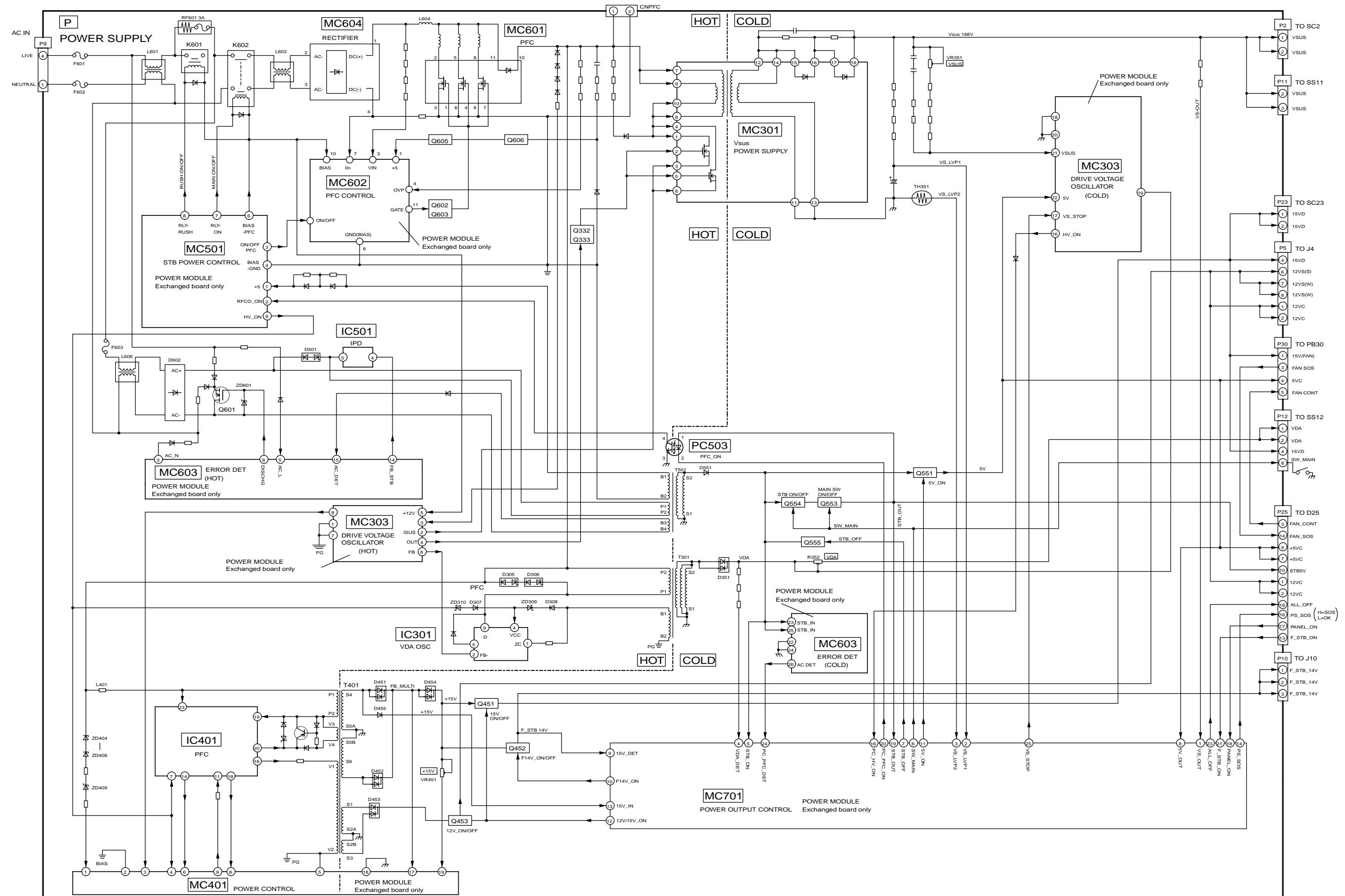
Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions.
All circuits, except the Power Circuit, are cold.
- Precautions
 - a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
 - b. Do not short-circuit the hot and cold circuits or a fuse may blow and parts may break.
 - c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
Connect the earth of instruments to the earth connection of the circuit being measured.
 - d. Make sure to disconnect the power plug before removing the chassis.

15.2. Main Block Diagram



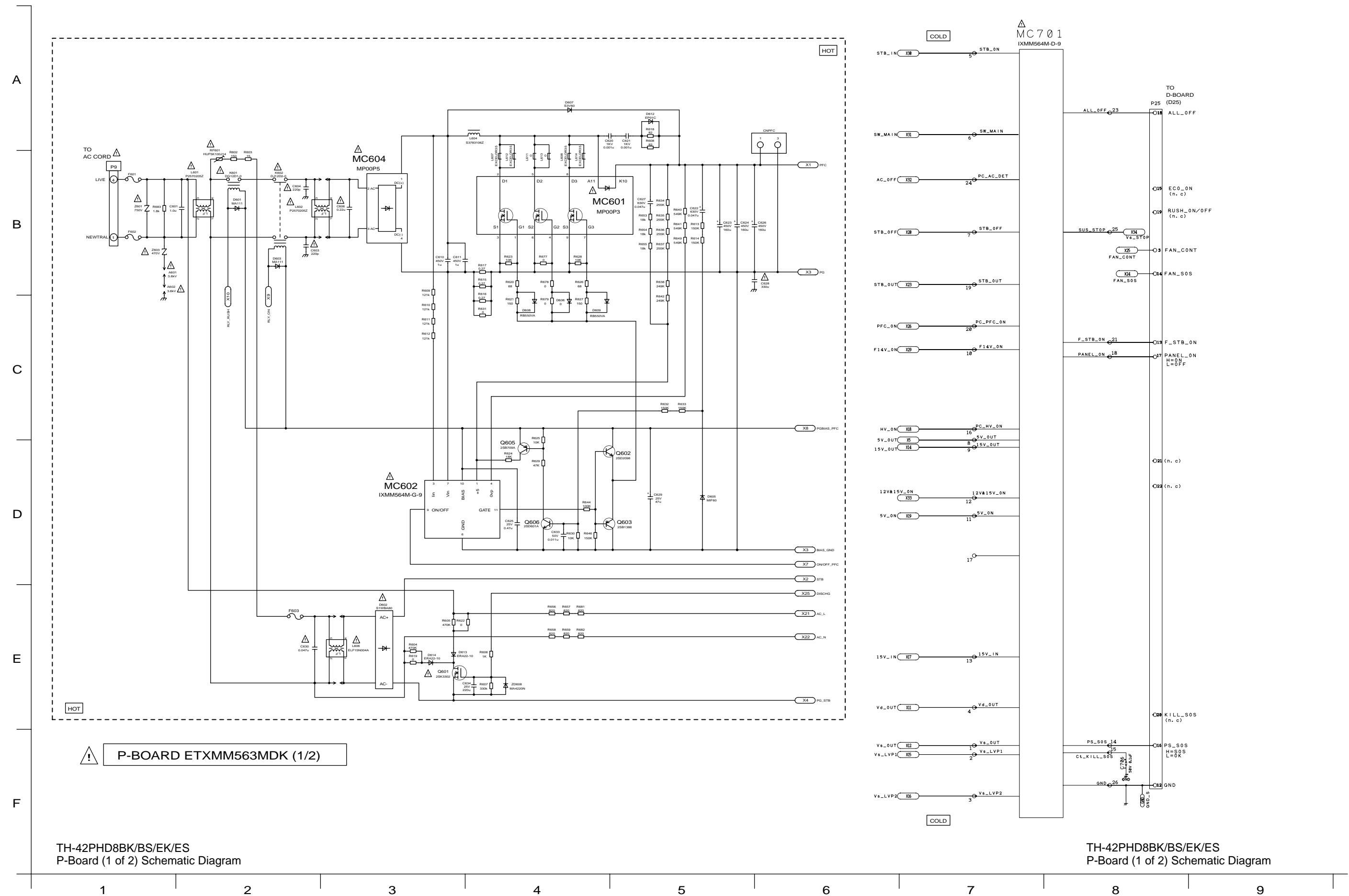
15.3. P-Board Block Diagram



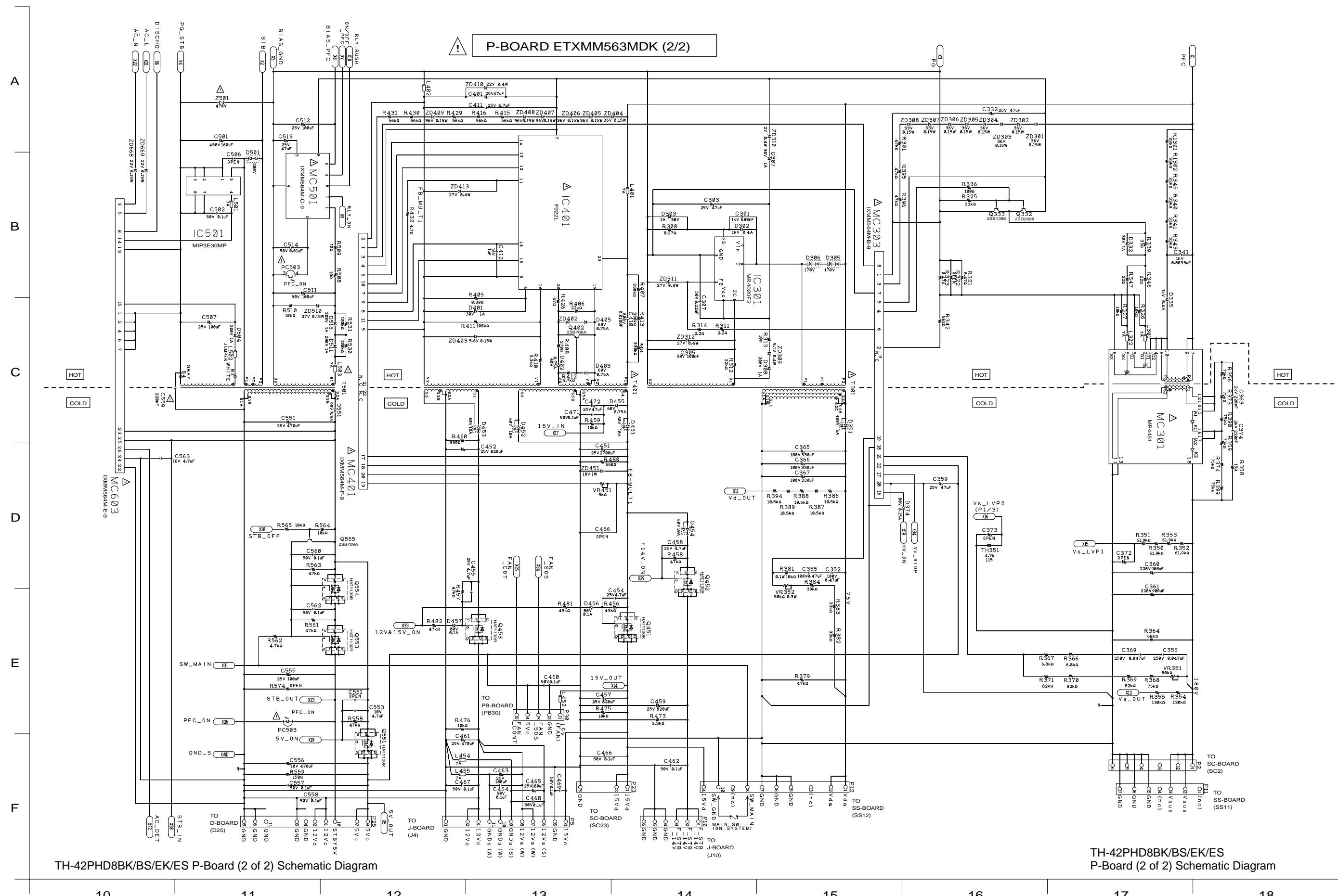
TH-42PHD8BK/BS/EK/ES
P-Board Block Diagram

TH-42PHD8BK/BS/EK/ES
P-Board Block Diagram

15.4. P-Board (1 of 2) Schematic Diagram



15.5. P-Board (2 of 2) Schematic Diagram

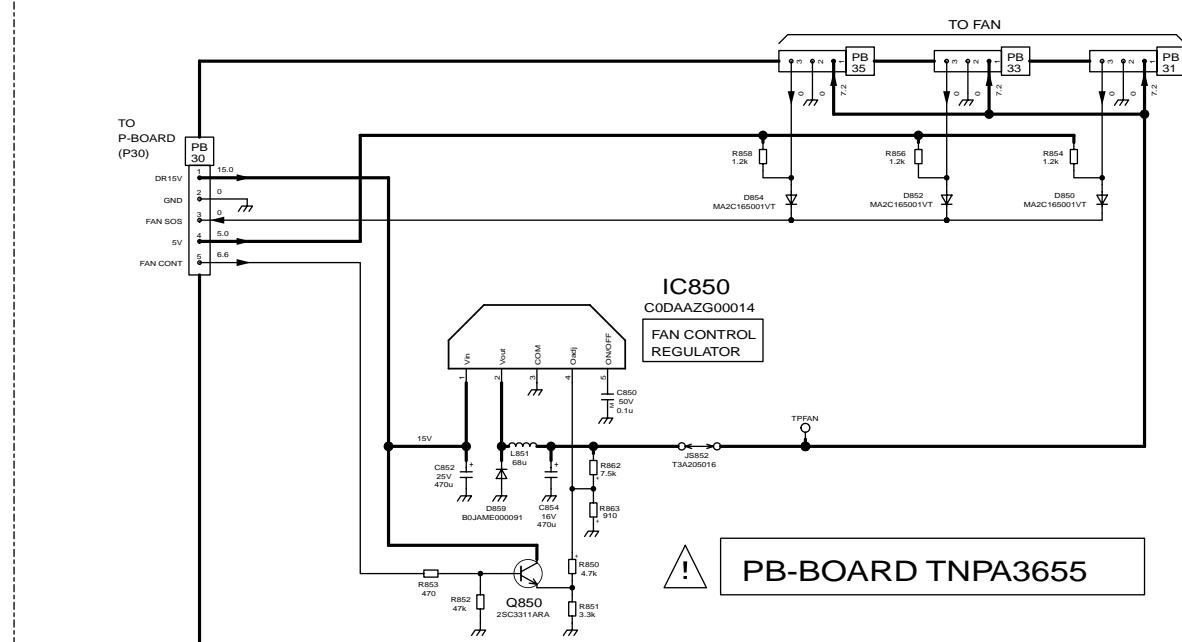
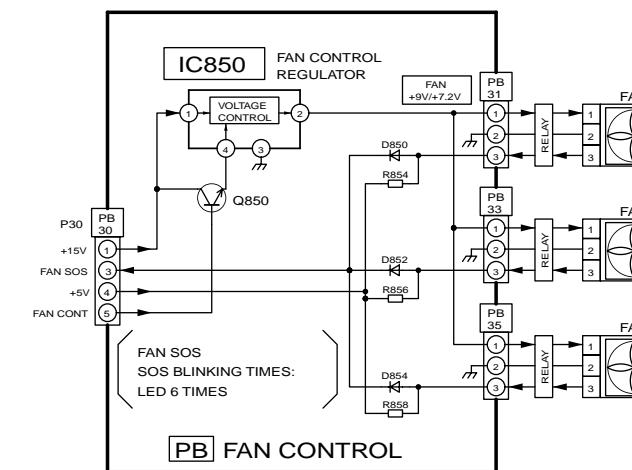


TH-42PHD8BK/BS/EK/ES P-Board (2 of 2) Schematic Diagram

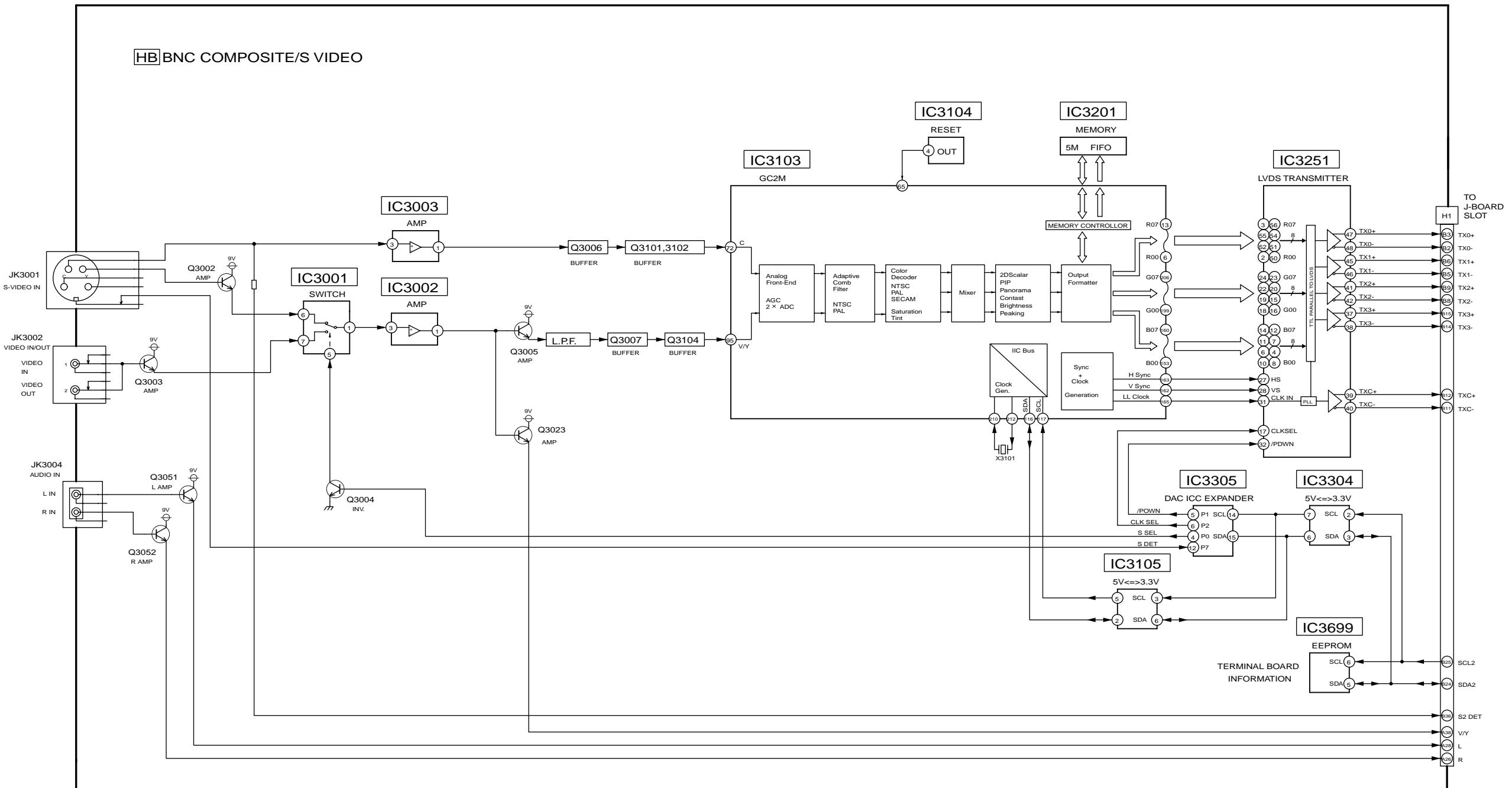
TH-42PHD8BK/BS/EK/ES
P-Board (2 of 2) Schematic Diagram

15.6. PB-Board Block and Schematic Diagram

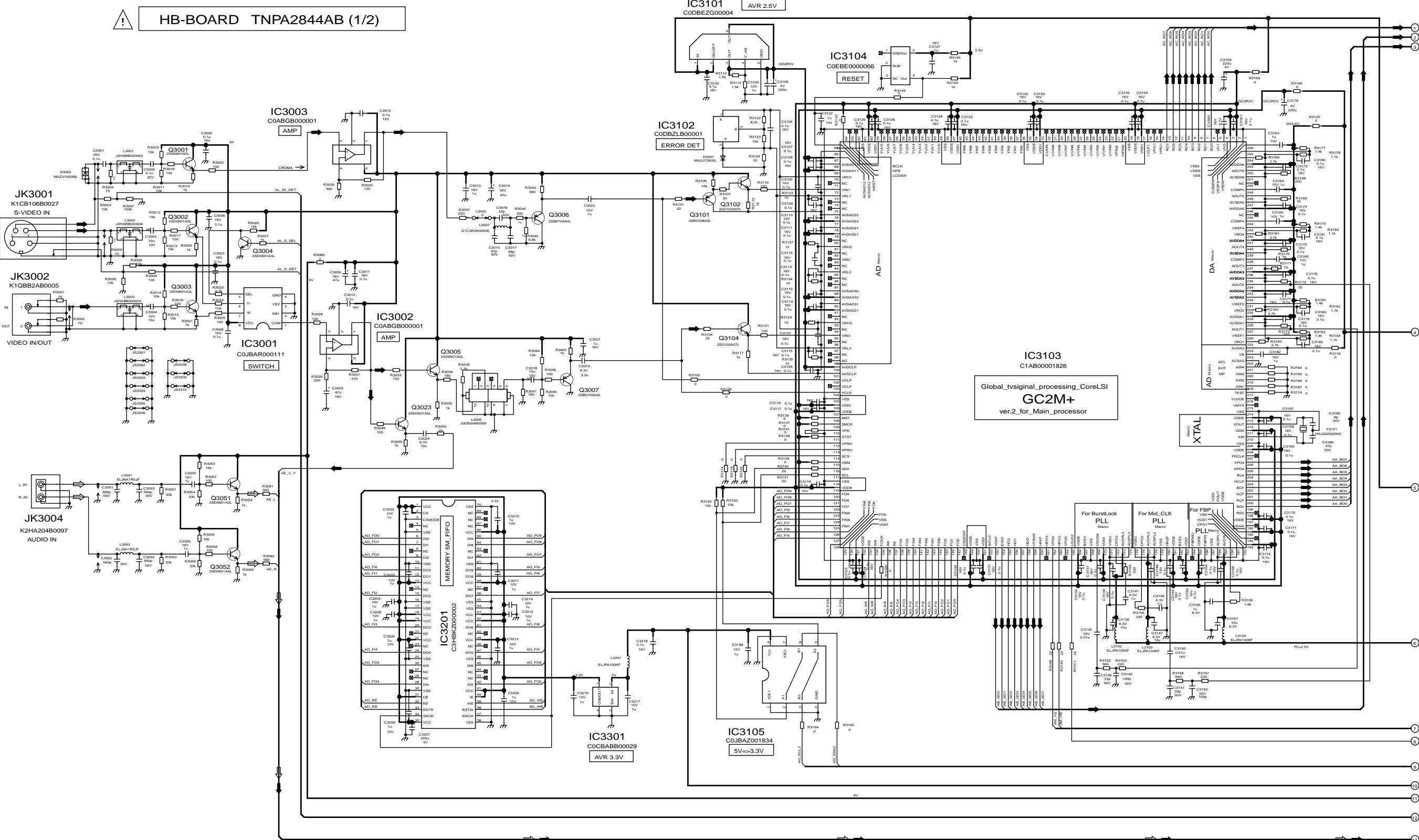
A
B
C
D
E



15.7. HB-Board Block Diagram



15.8. HB-Board (1 of 2) Schematic Diagram

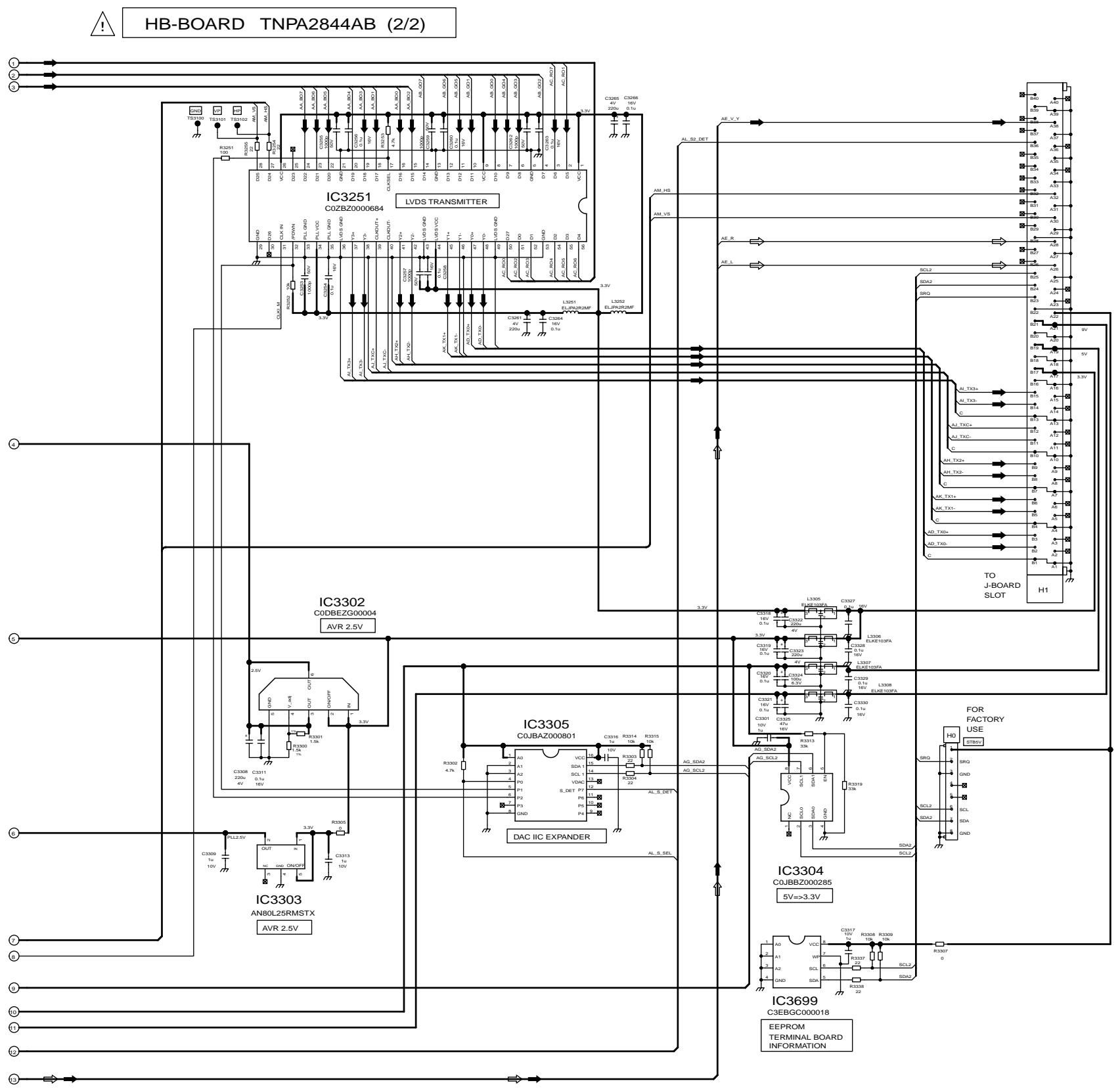


TH-42PHD8BK/BS/EK/ES
HB-Board (1 of 2) Schematic Diagram

TH-42PHD8BK/BS/EK/ES
HB-Board (1 of 2) Schematic Diagram

1 2 3 4 5 6 7 8 9

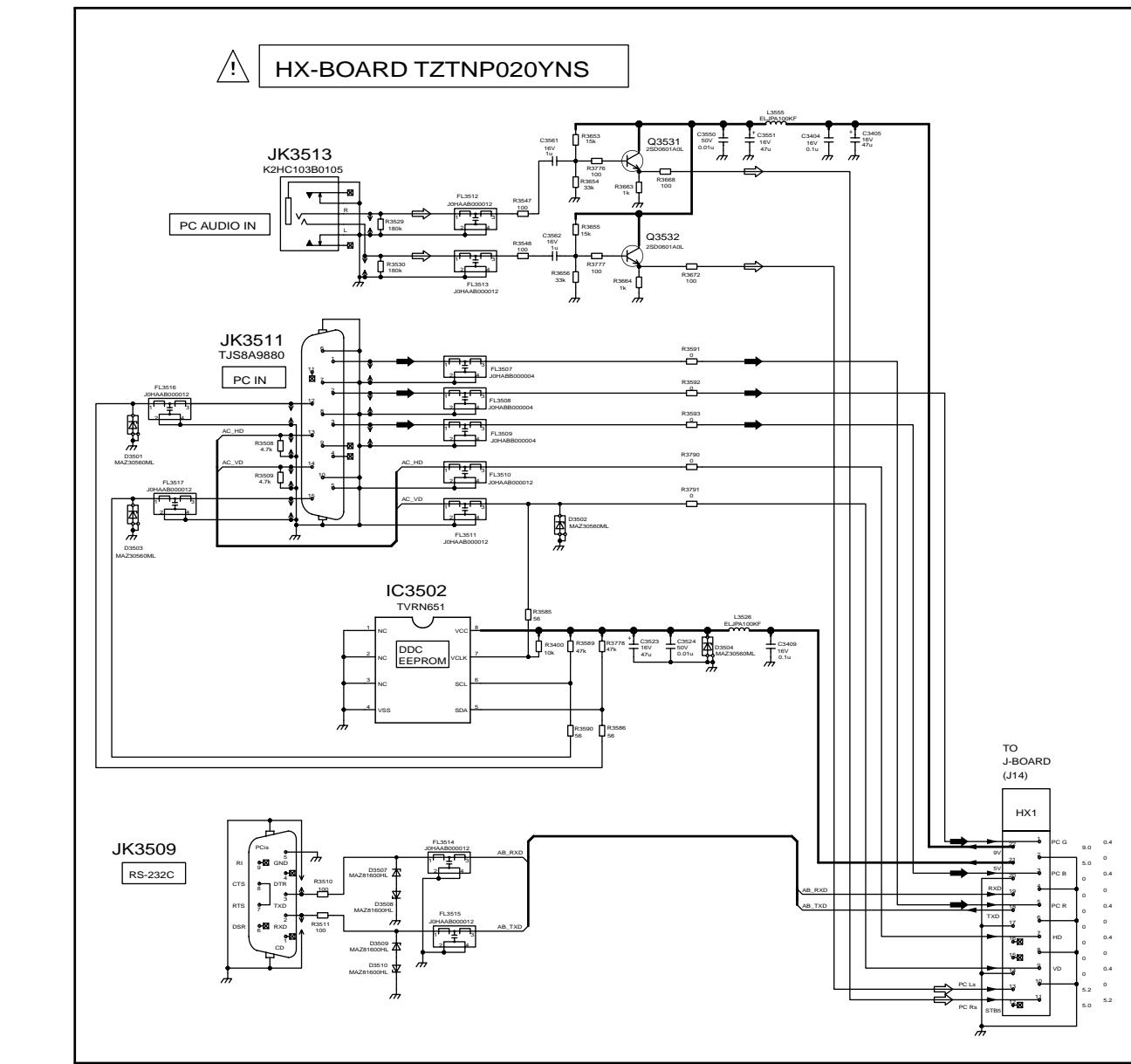
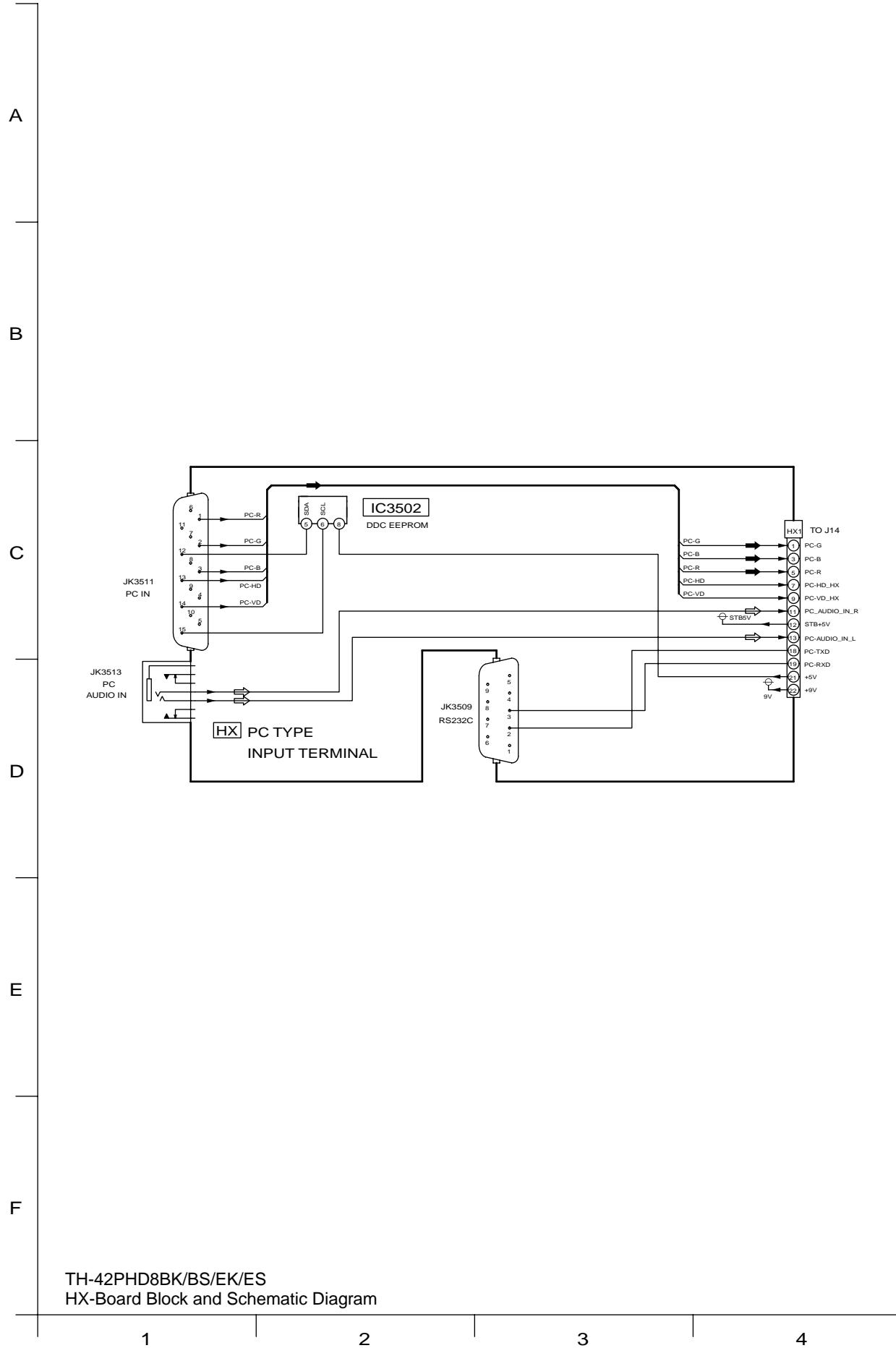
15.9. HB-Board (2 of 2) Schematic Diagram



TH-42PHD8BK/BS/EK/ES
HB-Board (2 of 2) Schematic Diagram

TH-42PHD8BK/BS/EK/ES
HB-Board (2 of 2) Schematic Diagram

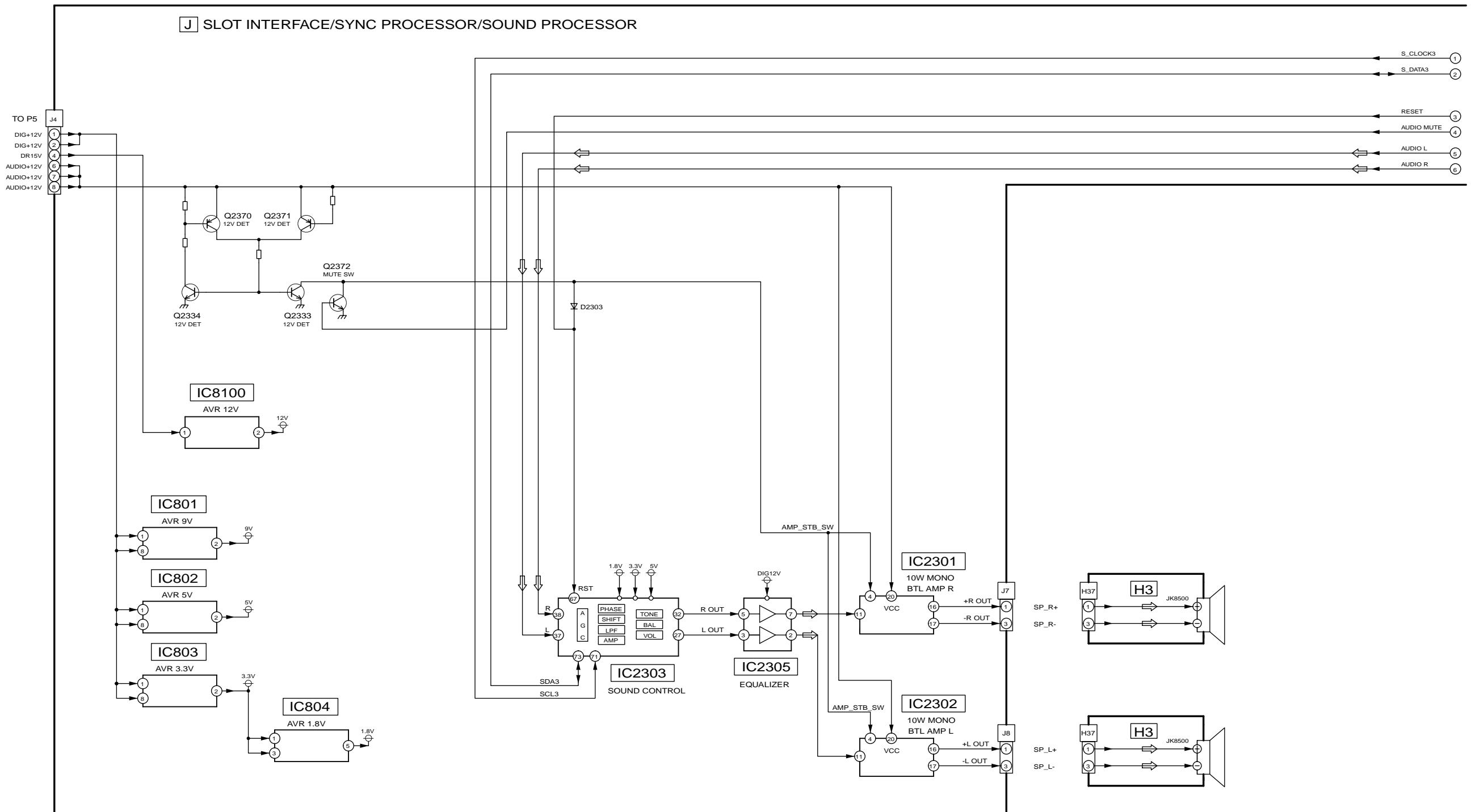
15.10. HX-Board Block and Schematic Diagram



TH-42PHD8BK/BS/EK/ES
HX-Board Block and Schematic Diagram

TH-42PHD8BK/BS/EK/ES
HX-Board Block and Schematic Diagram

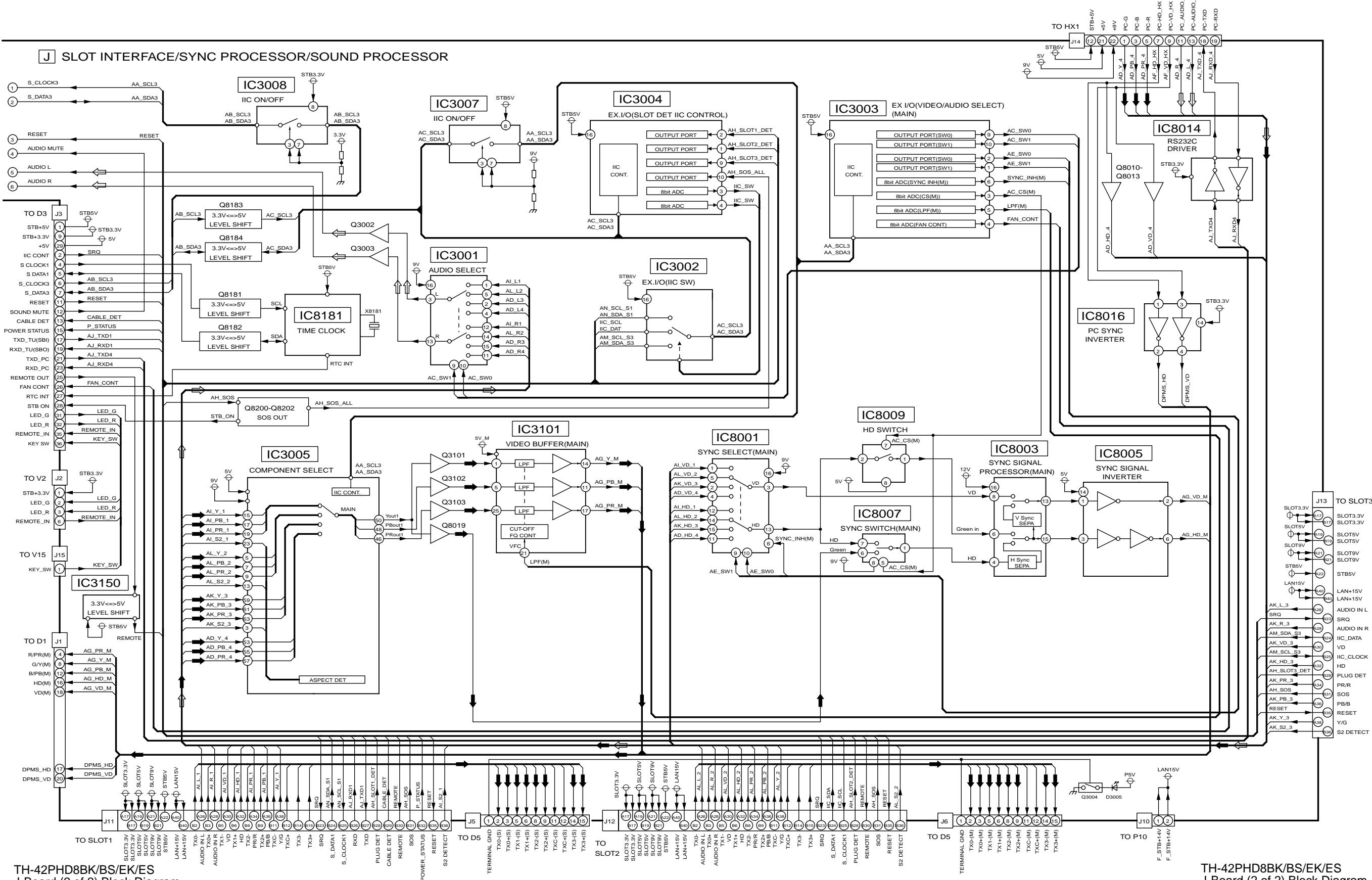
15.11. J-Board (1 of 2) and H3-Board Block Diagram



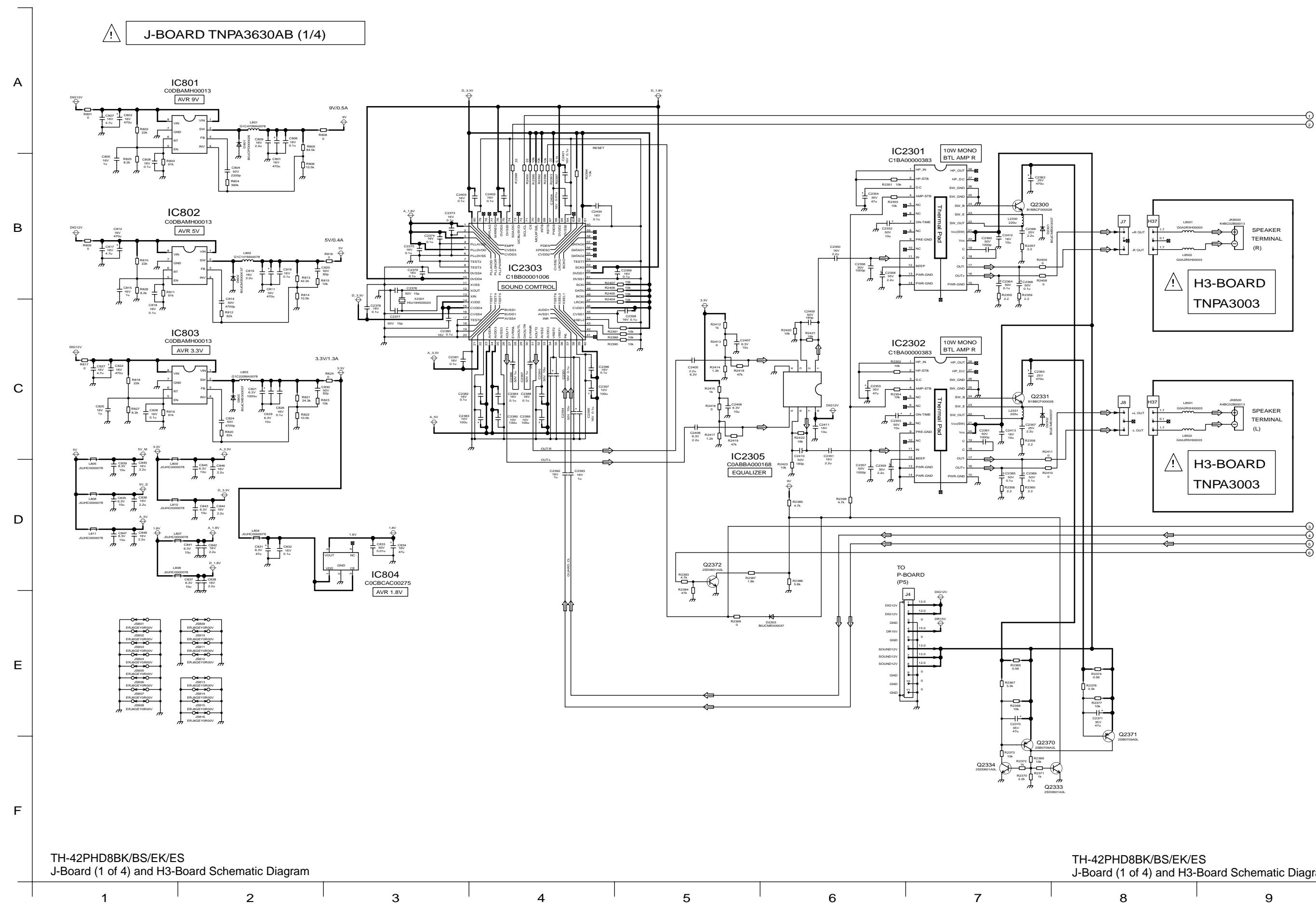
TH-42PHD8BK/BS/EK/ES
J-Board (1 of 2) and H3-Board Block Diagram

TH-42PHD8BK/BS/EK/ES
J-Board (1 of 2) and H3-Board Block Diagram

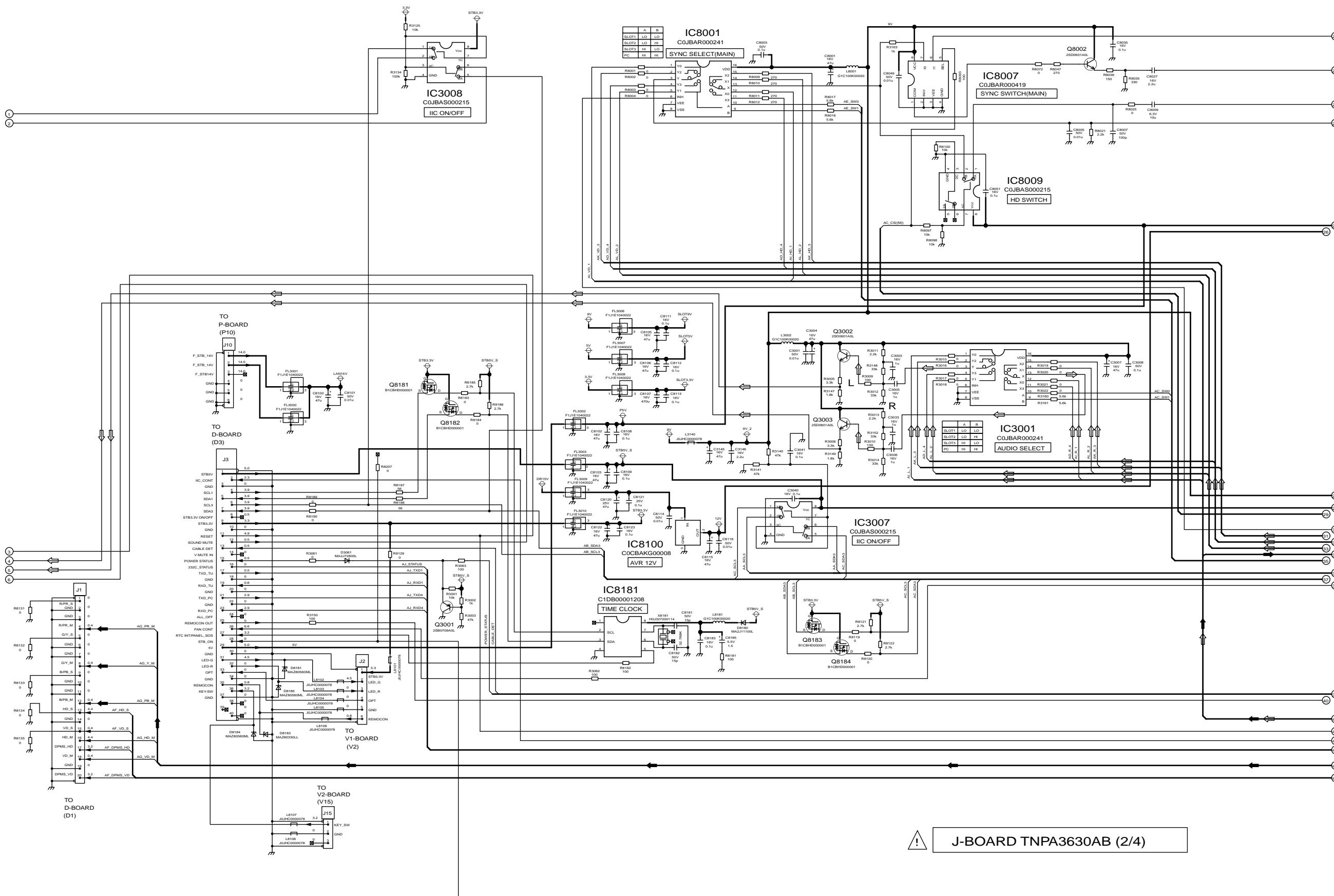
15.12. J-Board (2 of 2) Block Diagram

TH-42PHD8BK/BS/EK/ES
J-Board (2 of 2) Block DiagramTH-42PHD8BK/BS/EK/ES
J-Board (2 of 2) Block Diagram

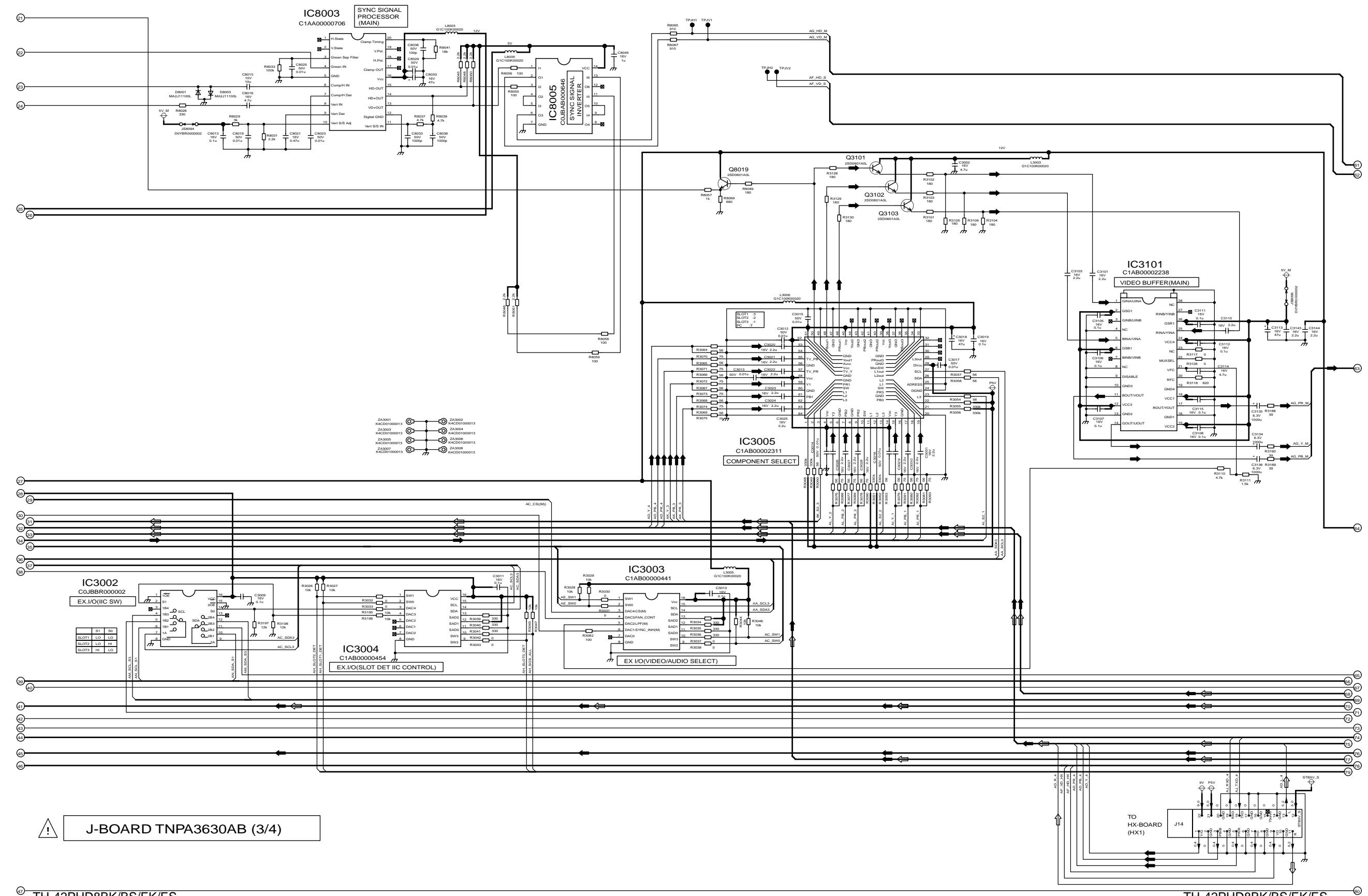
15.13. J-Board (1 of 4) and H3-Board Schematic Diagram



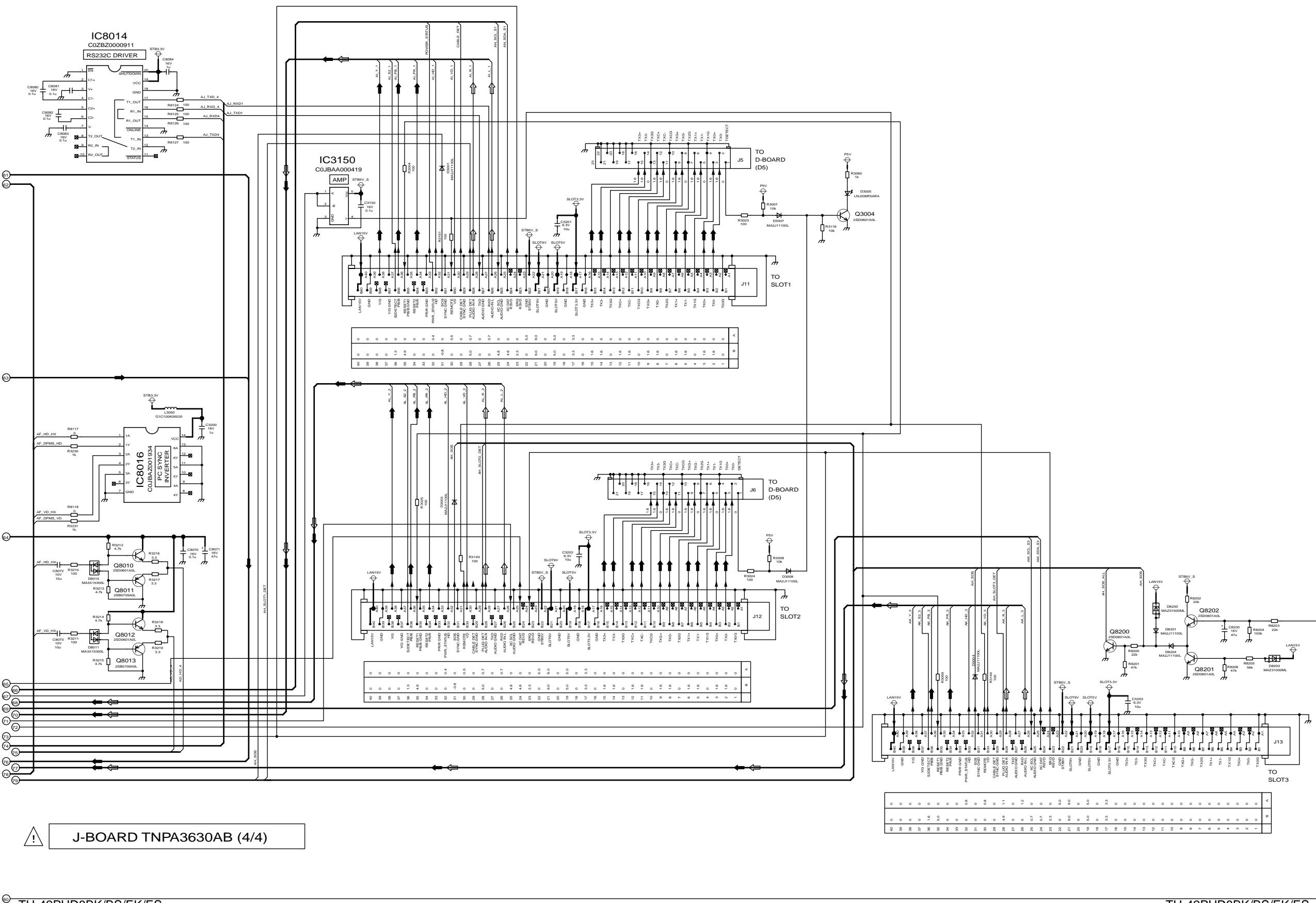
15.14. J-Board (2 of 4) Schematic Diagram



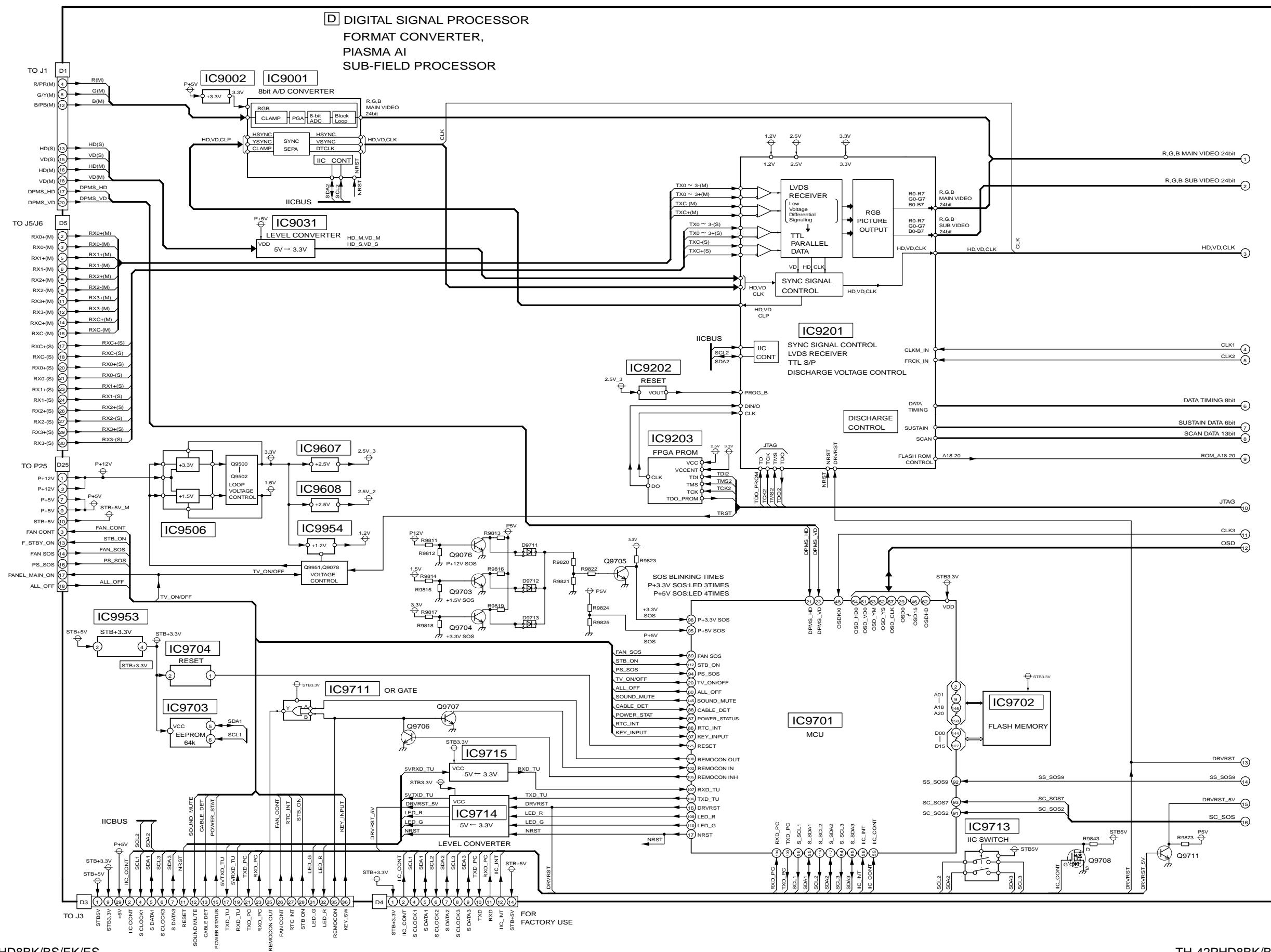
15.15. J-Board (3 of 4) Schematic Diagram



15.16. J-Board (4 of 4) Schematic Diagram



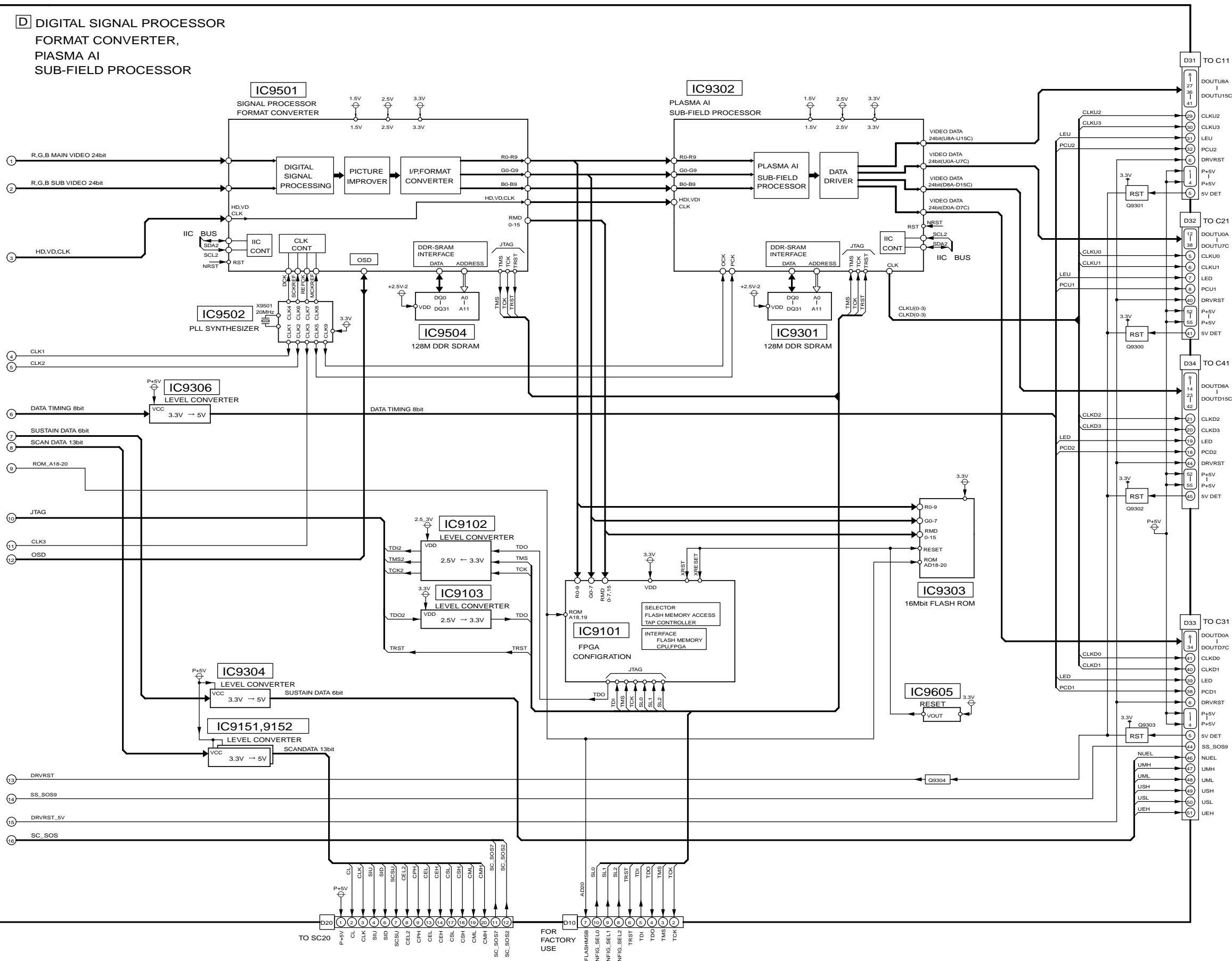
15.17. D-Board (1 of 2) Block Diagram



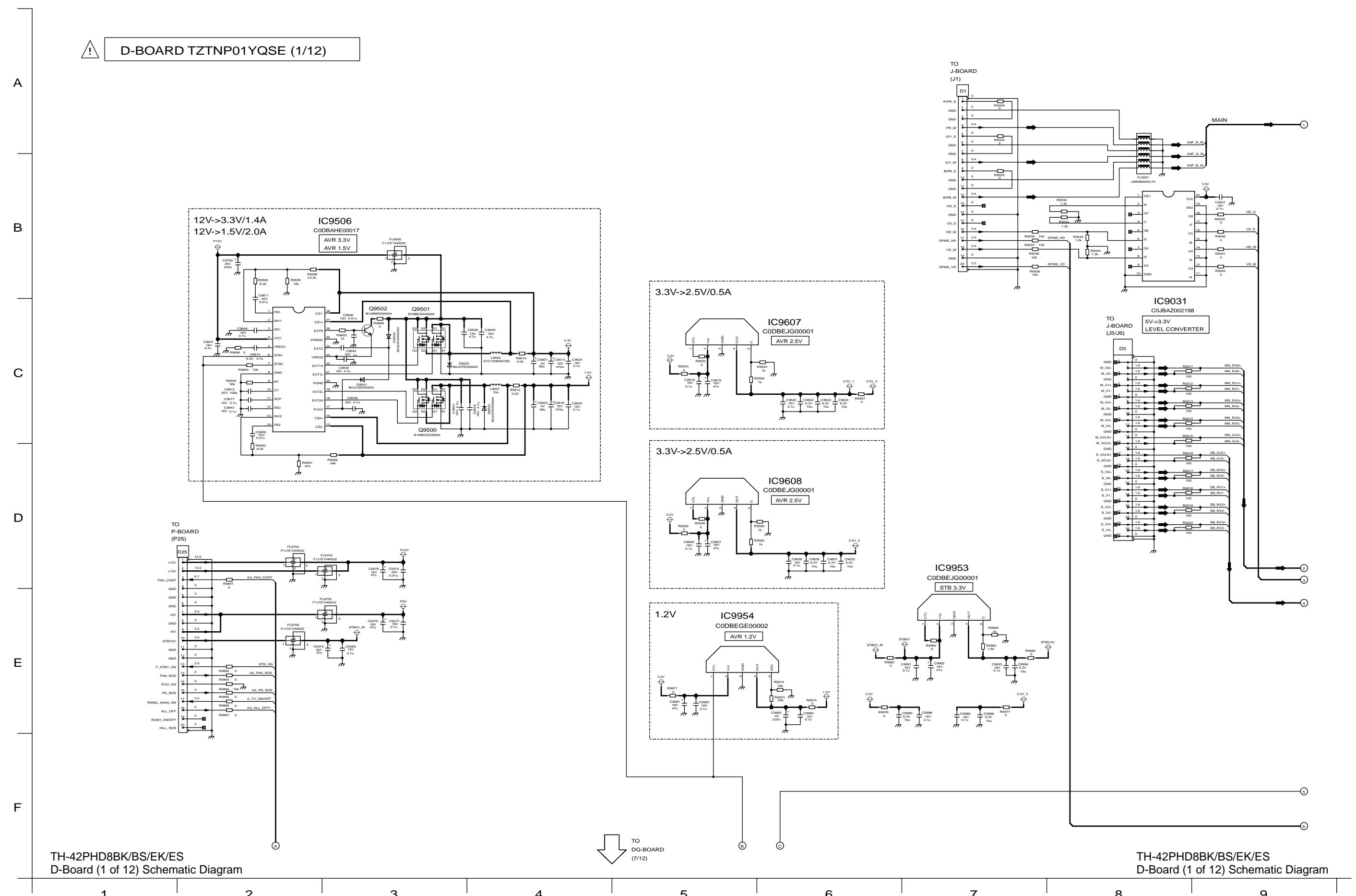
TH-42PHD8BK/BS/EK/ES
D-Board (1 of 2) Block Diagram

TH-42PHD8BK/BS/EK/ES
D-Board (1 of 2) Block Diagram

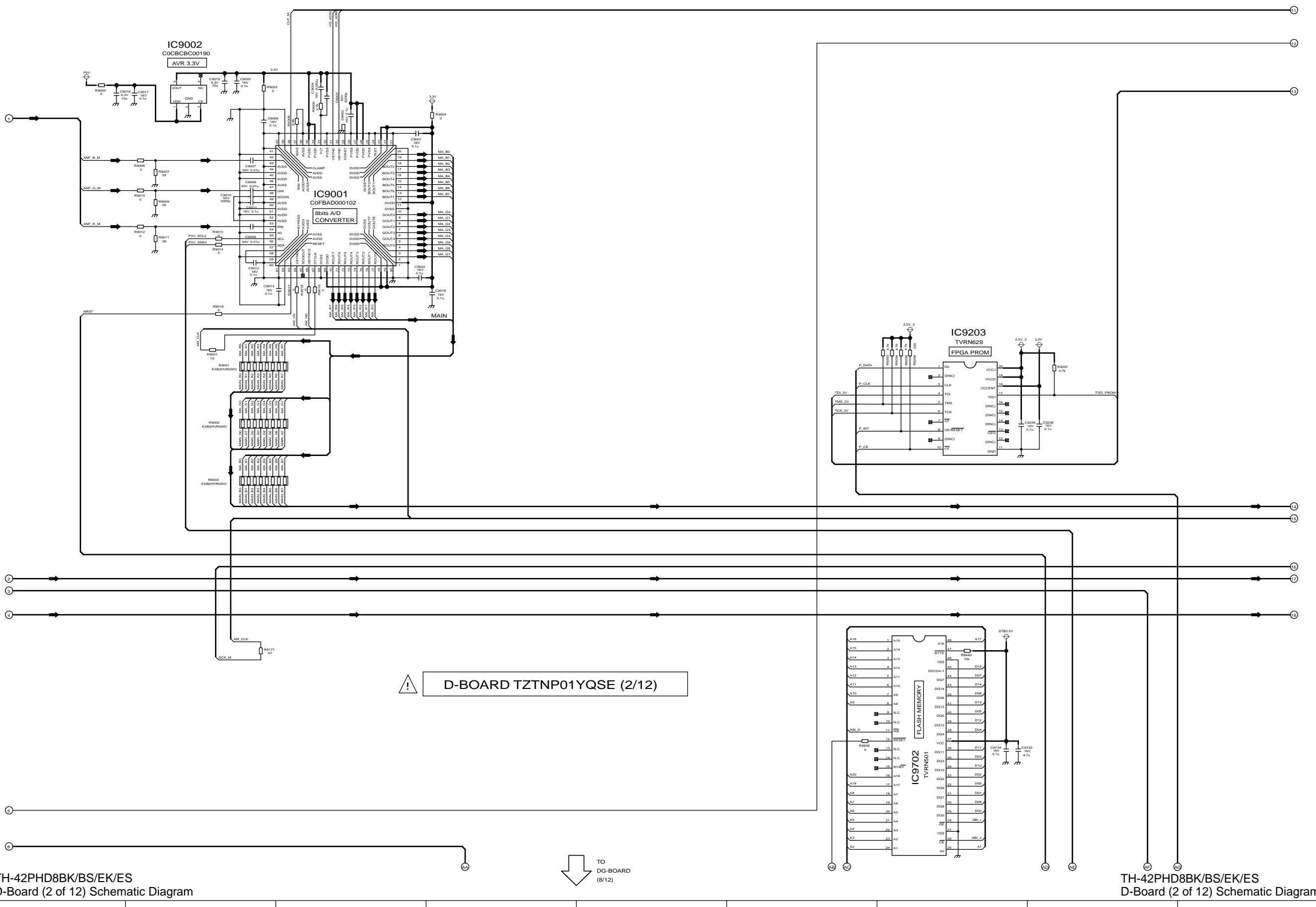
15.18. D-Board (2 of 2) Block Diagram

TH-42PHD8BK/BS/EK/ES
D-Board (2 of 2) Block DiagramTH-42PHD8BK/BS/EK/ES
D-Board (2 of 2) Block Diagram

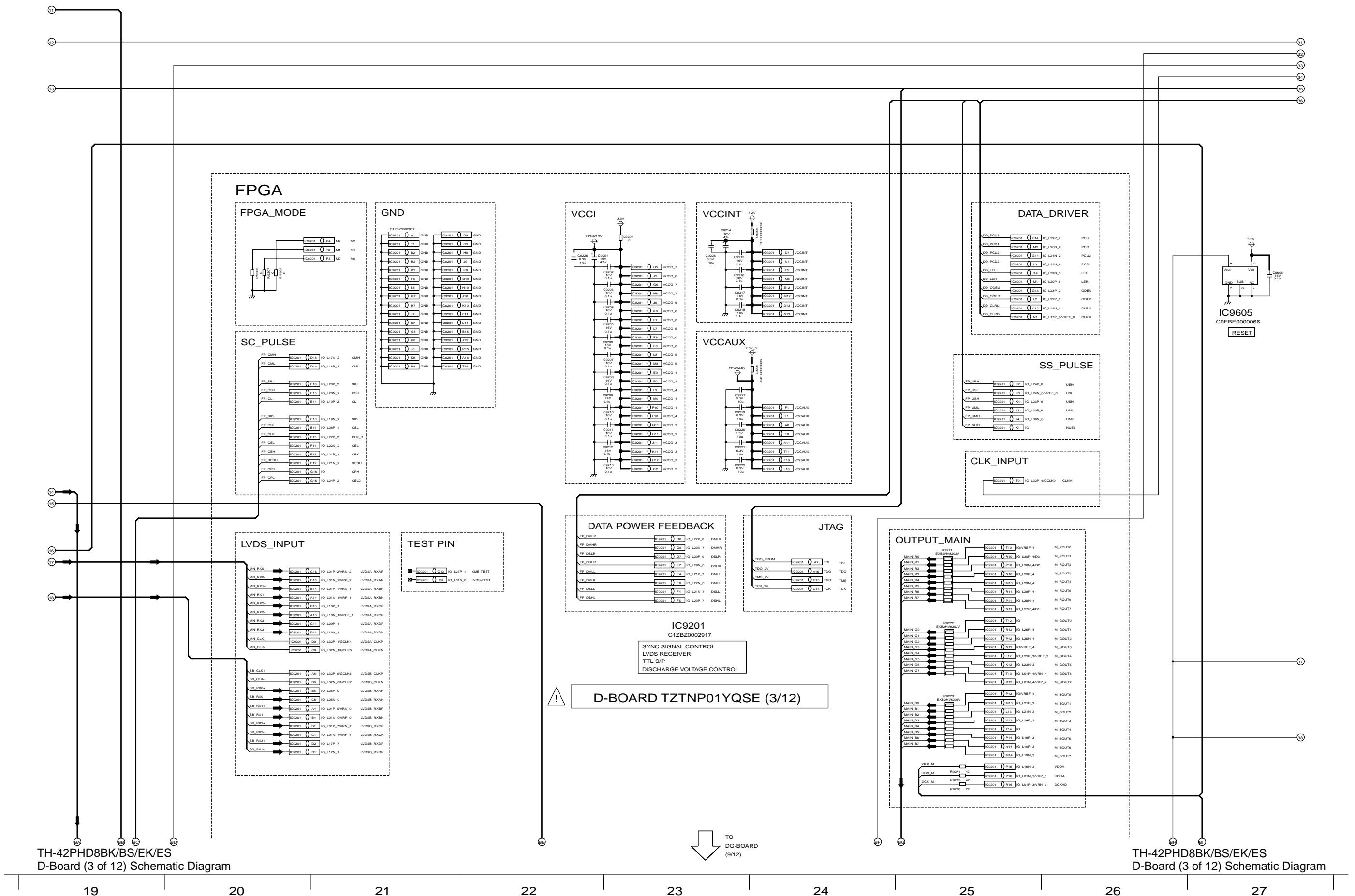
15.19. D-Board (1 of 12) Schematic Diagram



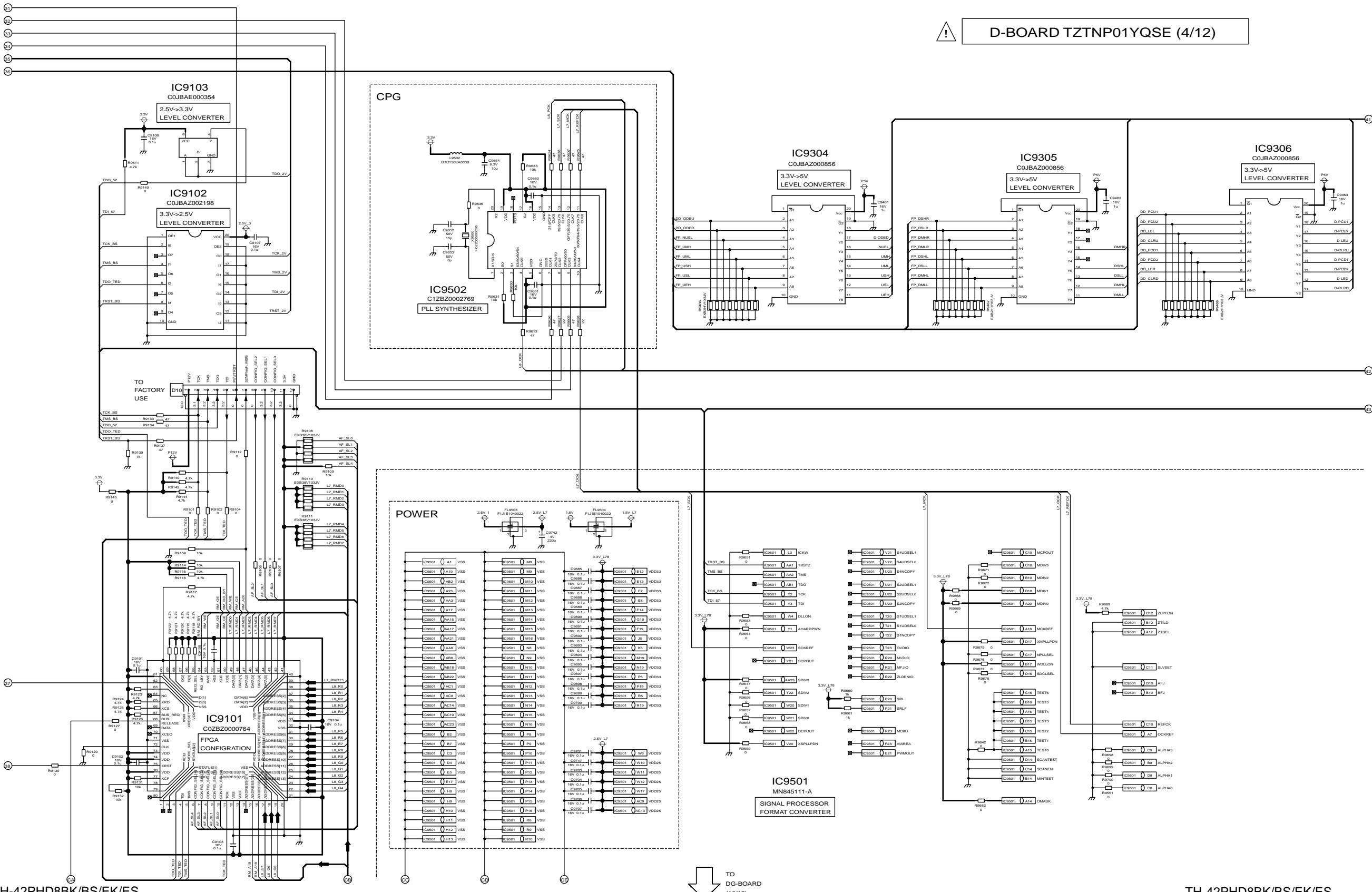
15.20. D-Board (2 of 12) Schematic Diagram



15.21. D-Board (3 of 12) Schematic Diagram



15.22. D-Board (4 of 12) Schematic Diagram

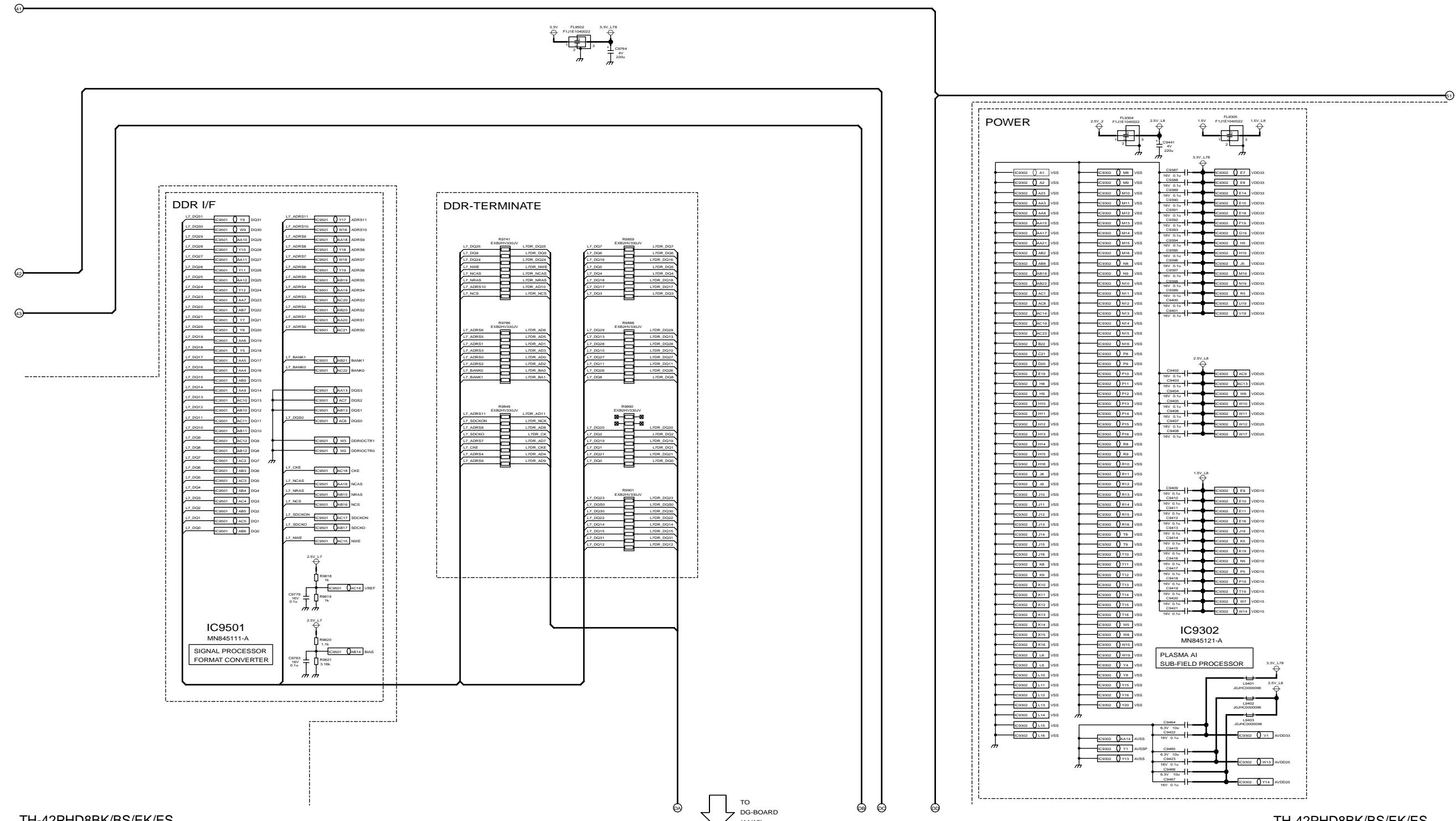


TH-42PHD8BK/BS/EK/ES
D-Board (4 of 12) Schematic Diagram

TH-42PHD8BK/BS/EK/ES
D-Board (4 of 12) Schematic Diagram

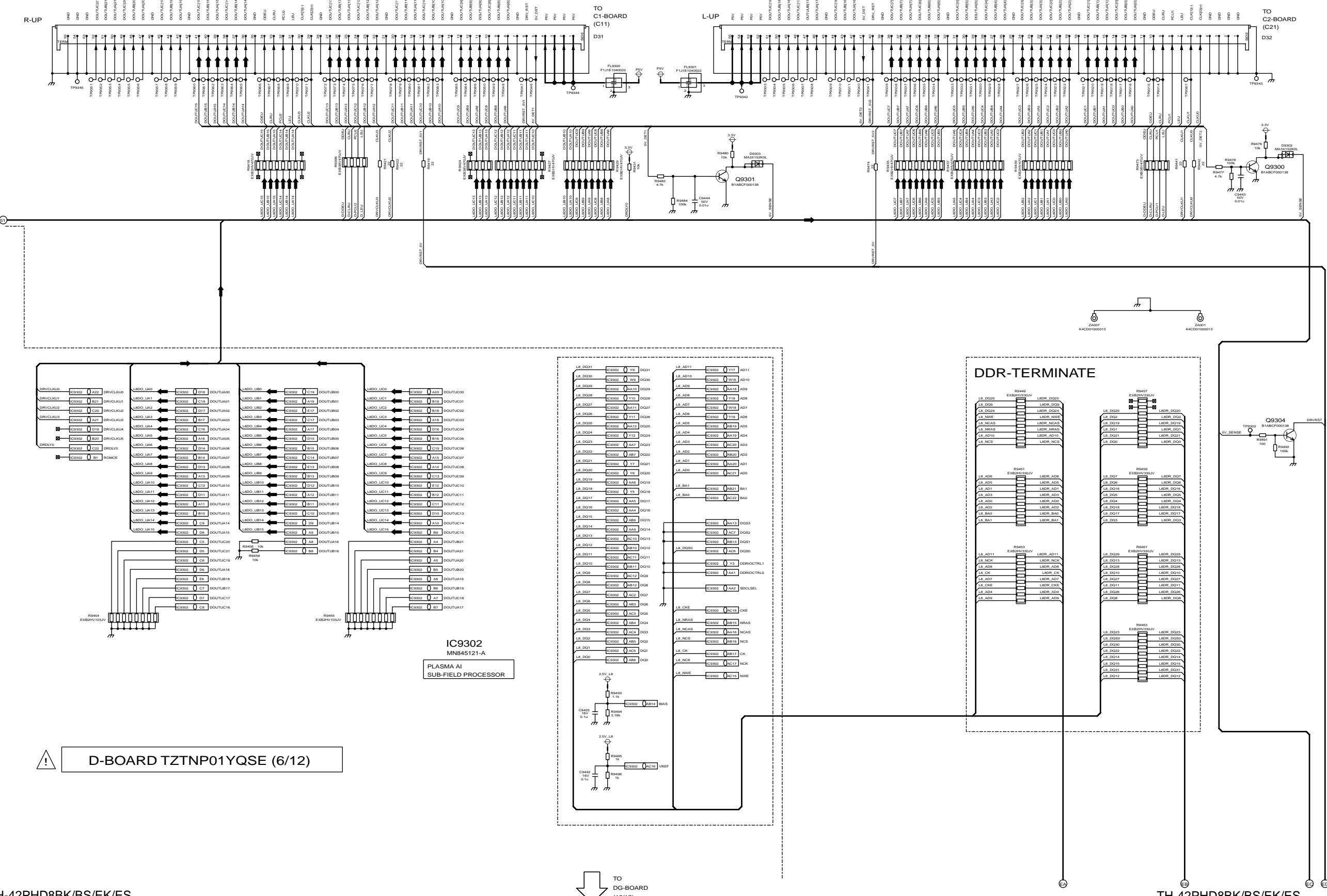
15.23. D-Board (5 of 12) Schematic Diagram

⚠ D-BOARD TZTNP01YQSE (5/12)



TH-42PHD8BK/BS/EK/ES
D-Board (5 of 12) Schematic Diagram

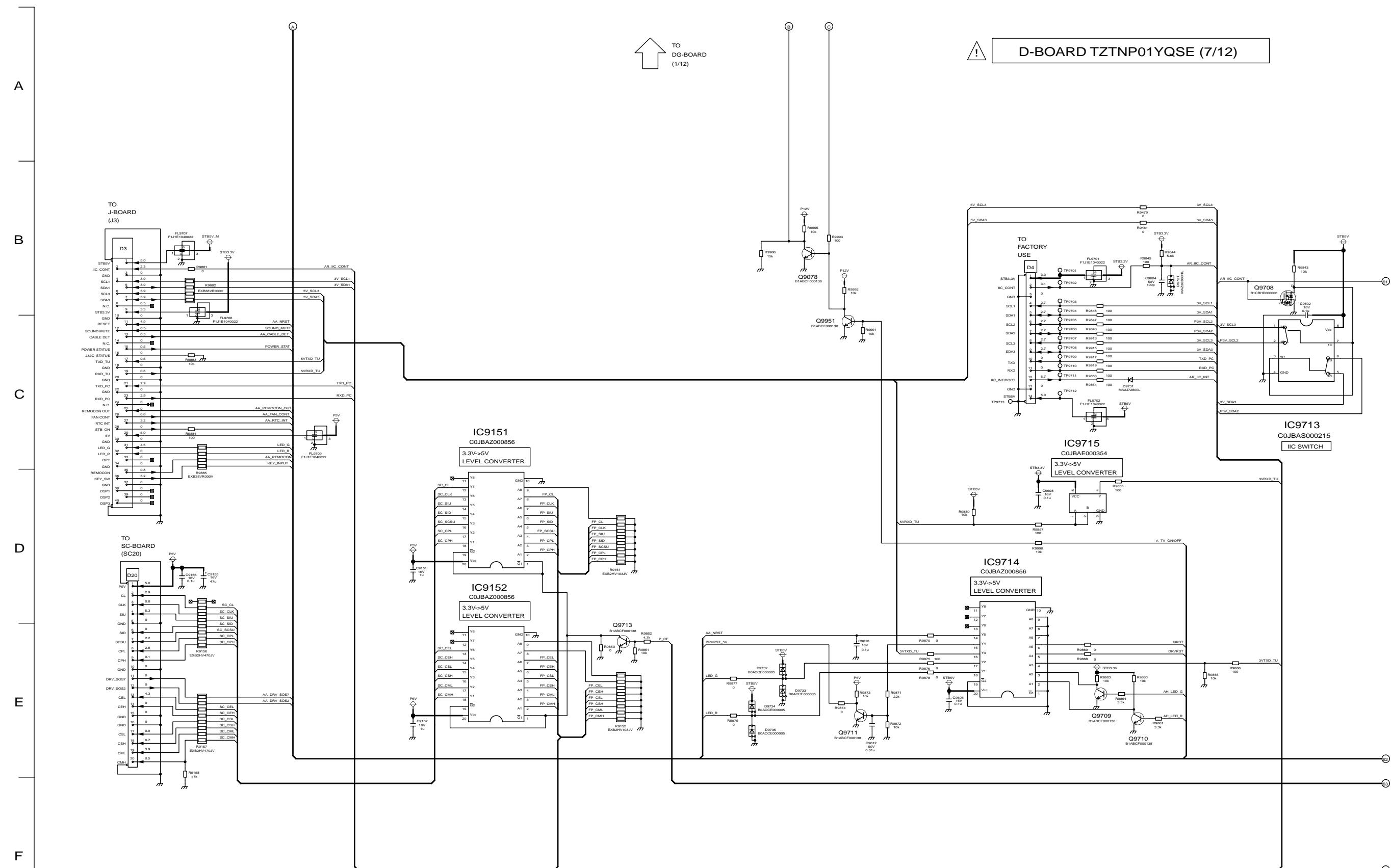
15.24. D-Board (6 of 12) Schematic Diagram



TH-42PHD8BK/BS/EK/ES
D-Board (6 of 12) Schematic Diagram

TH-42PHD8BK/BS/EK/ES
D-Board (6 of 12) Schematic Diagram

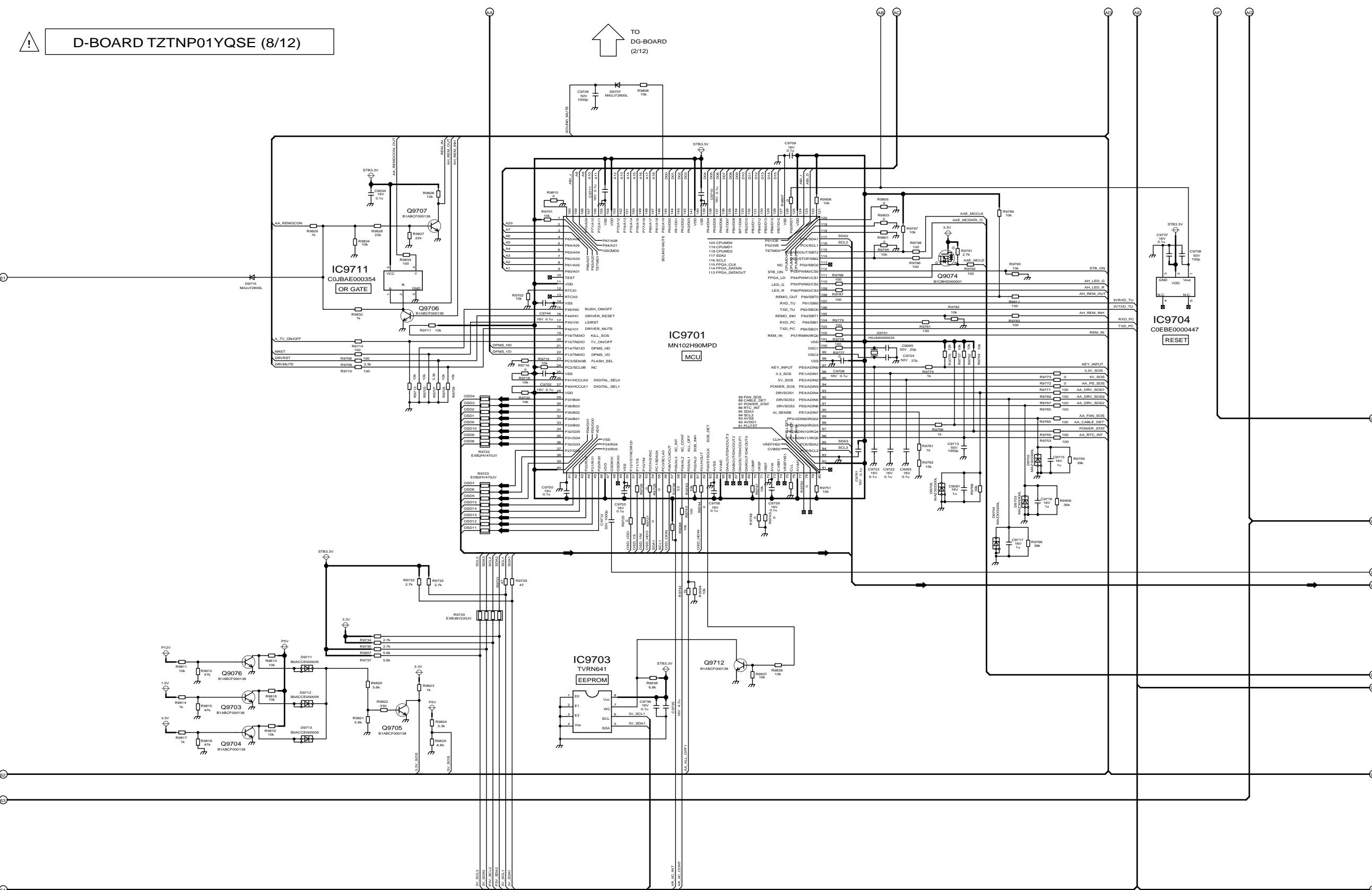
15.25. D-Board (7 of 12) Schematic Diagram



TH-42PHD8BK/BS/EK/ES
D-Board (7 of 12) Schematic Diagram

TH-42PHD8BK/BS/EK/ES
D-Board (7 of 12) Schematic Diagram

15.26. D-Board (8 of 12) Schematic Diagram

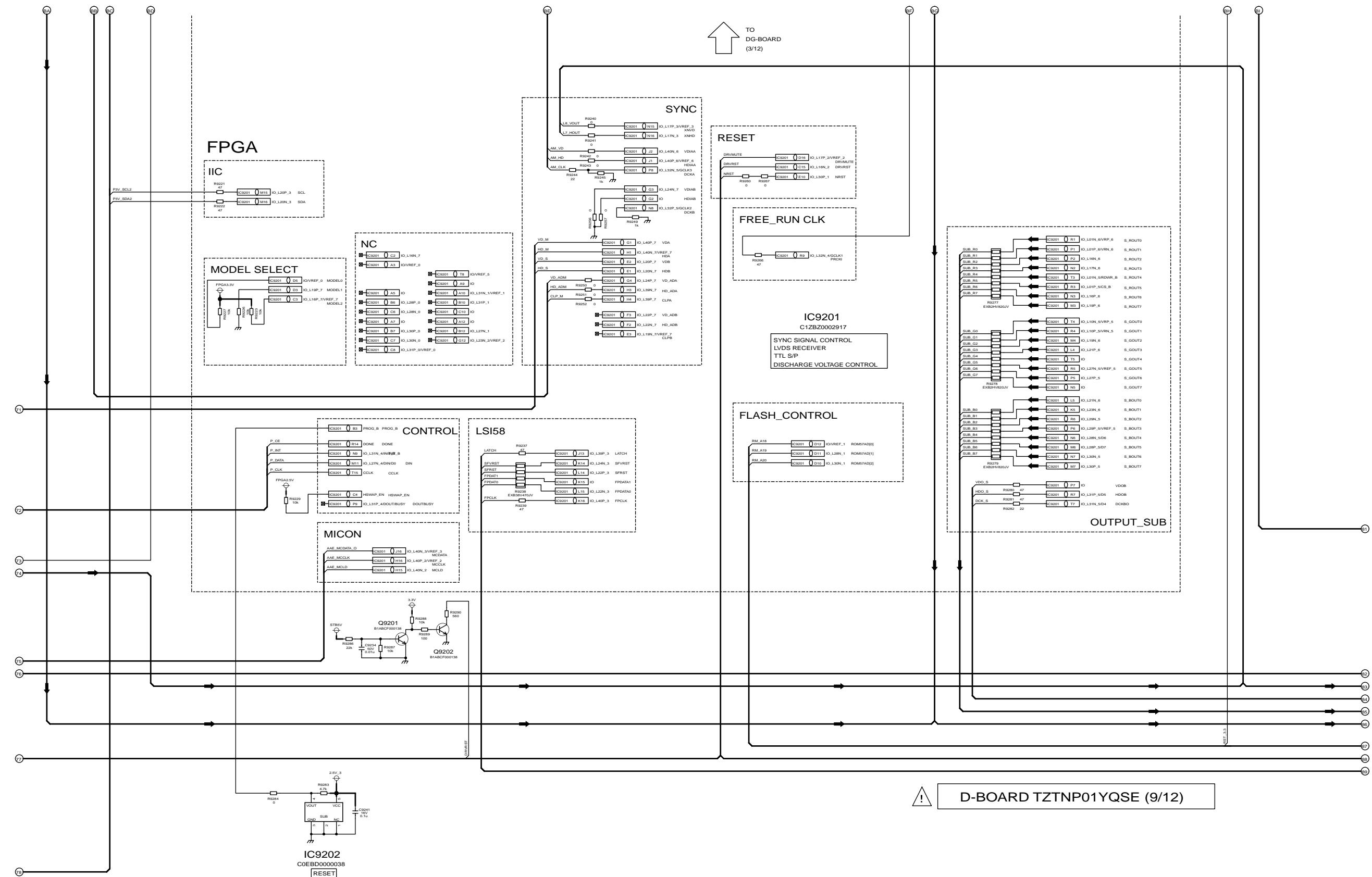


TH-42PHD8BK/BS/EK/ES
D-Board (8 of 12) Schematic Diagram

TH-42PHD8BK/BS/EK/ES
D-Board (8 of 12) Schematic Diagram

10 11 12 13 14 15 16 17 18

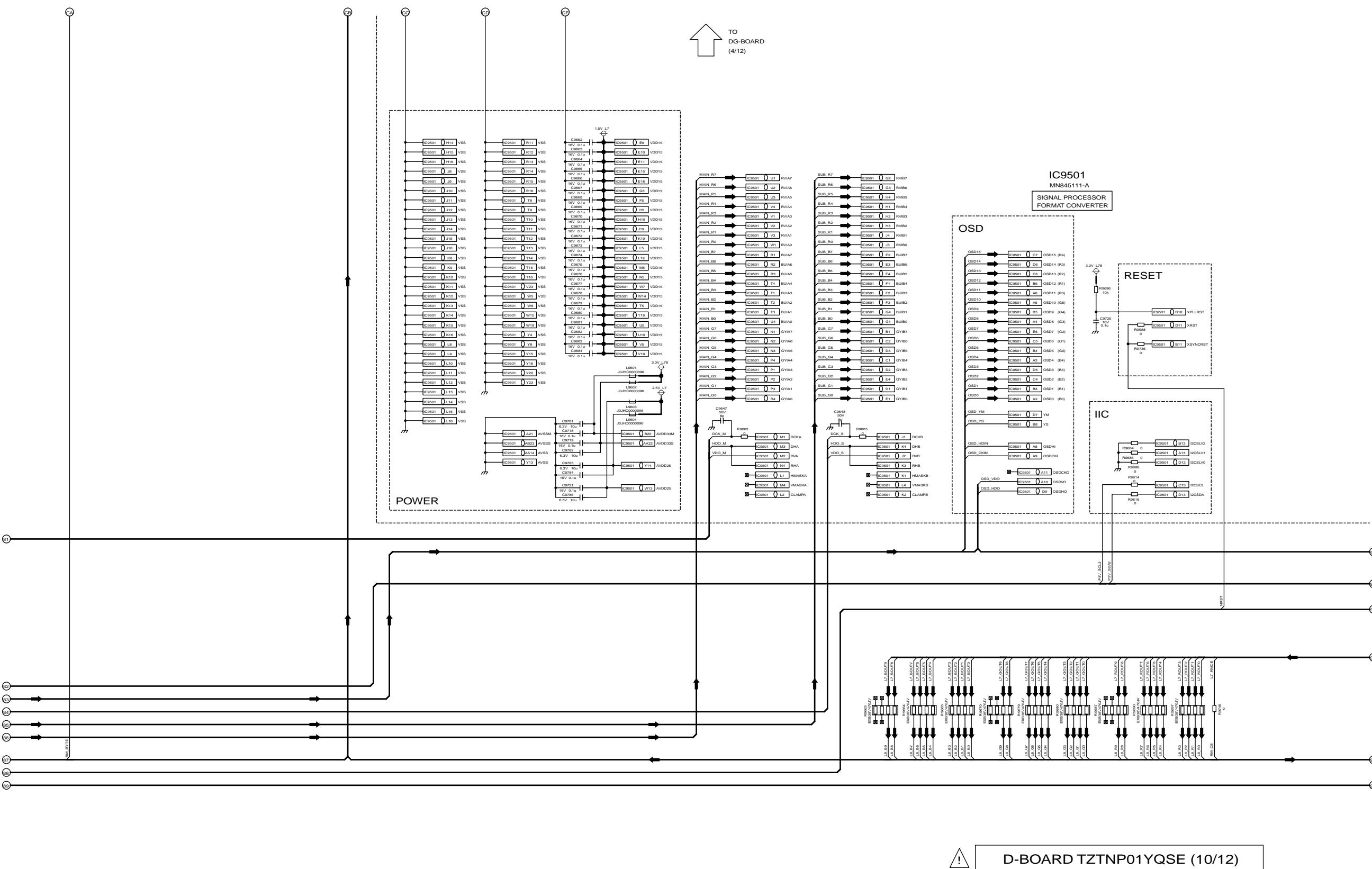
15.27. D-Board (9 of 12) Schematic Diagram



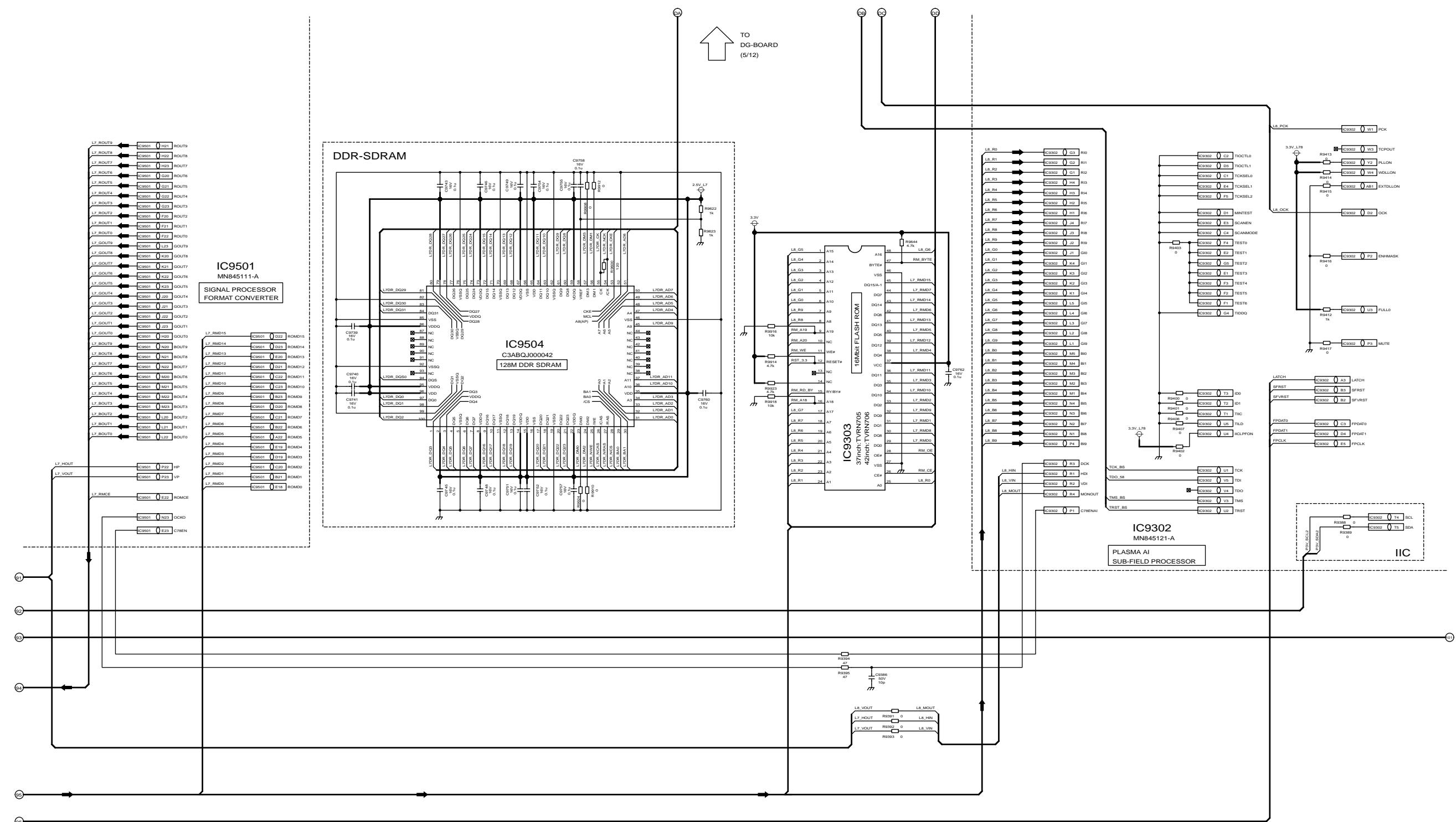
TH-42PHD8BK/BS/EK/ES
D-Board (9 of 12) Schematic Diagram

TH-42PHD8BK/BS/EK/ES
D-Board (9 of 12) Schematic Diagram

15.28. D-Board (10 of 12) Schematic Diagram

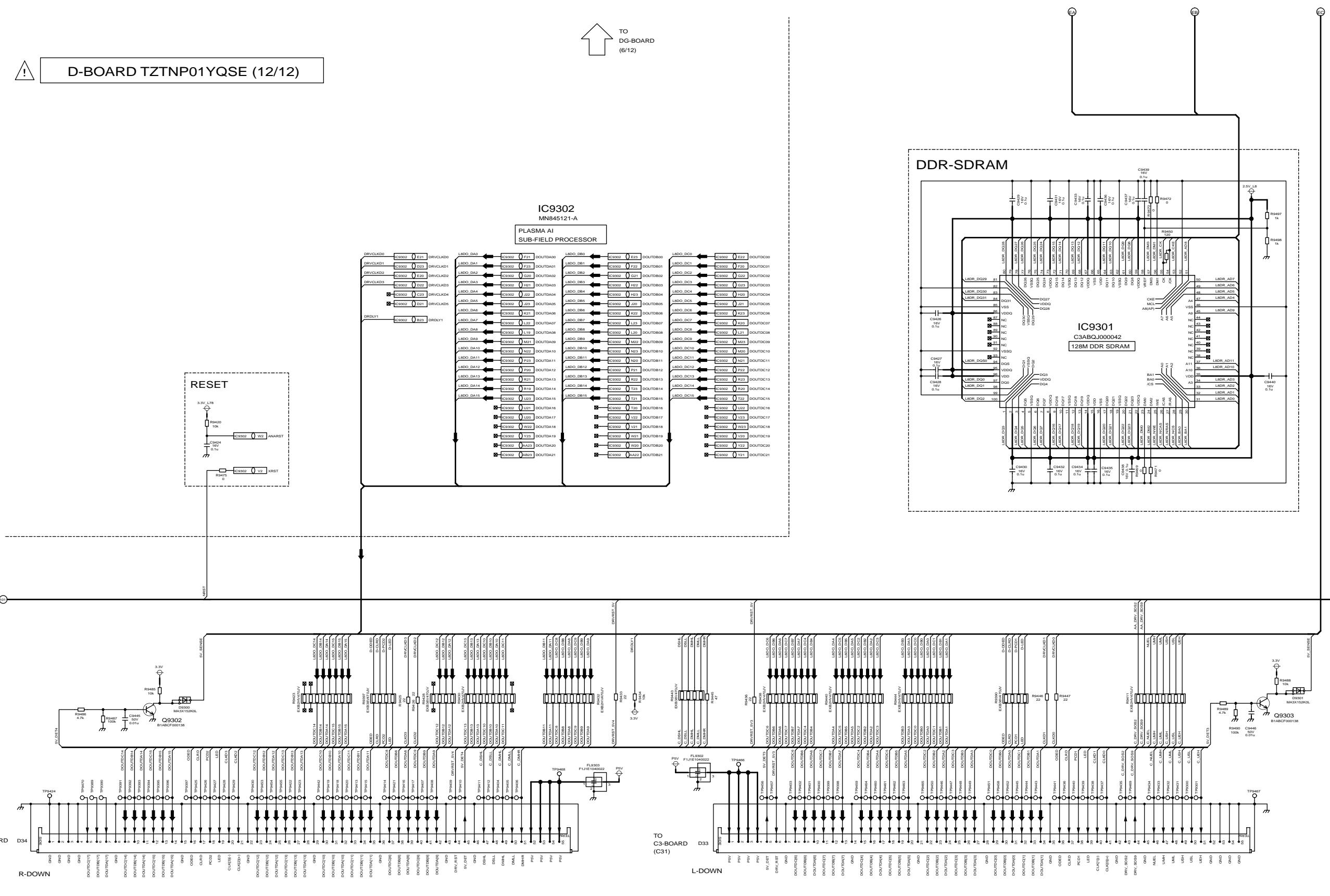


15.29. D-Board (11 of 12) Schematic Diagram



! D-BOARD TZTNP01YQSE (11/12)

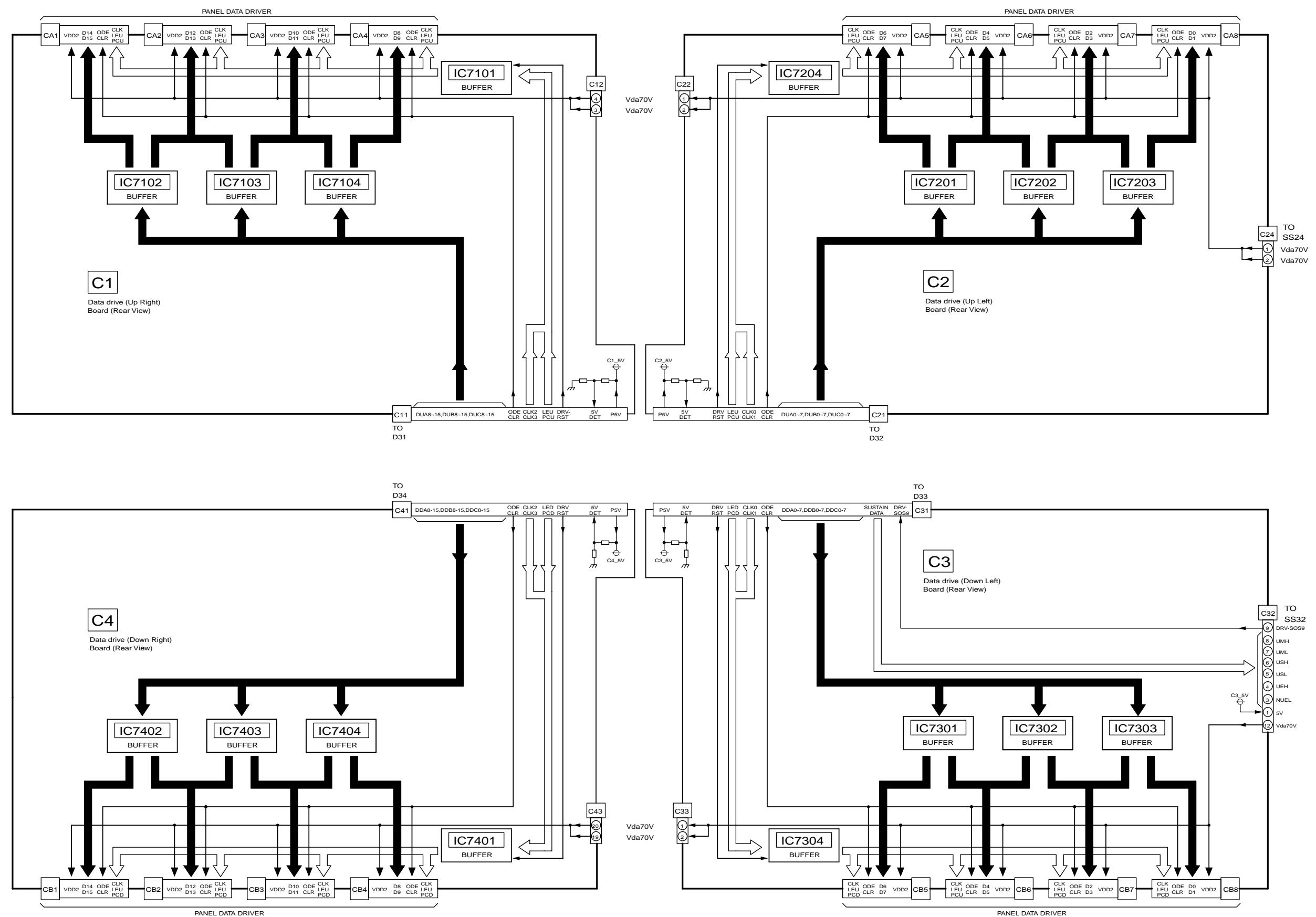
15.30. D-Board (12 of 12) Schematic Diagram



TH-42PHD8BK/BS/EK/ES
D-Board (12 of 12) Schematic Diagram

TH-42PHD8BK/BS/EK/ES
D-Board (12 of 12) Schematic Diagram

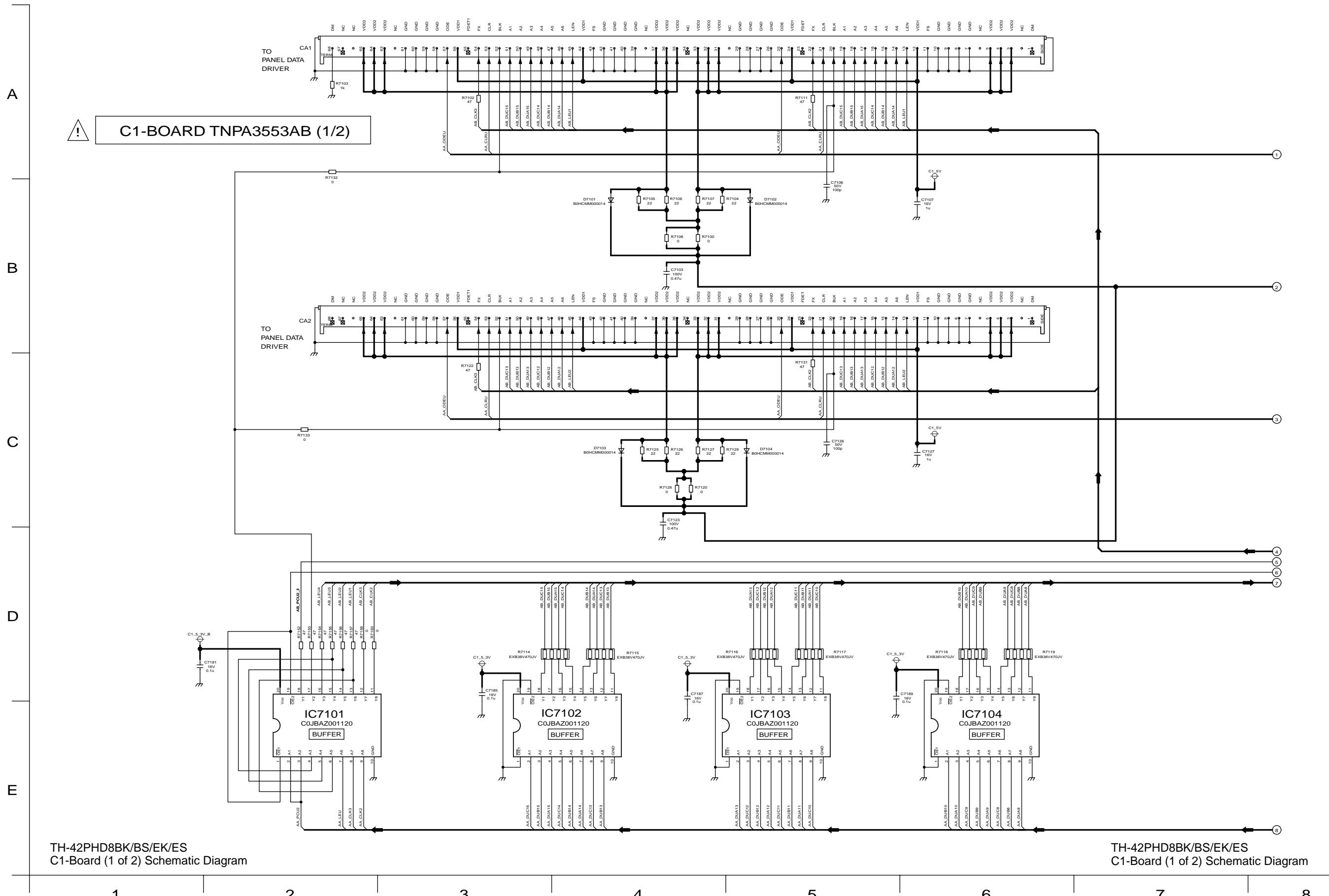
15.31. C1, C2, C3 and C4-Board Block Diagram



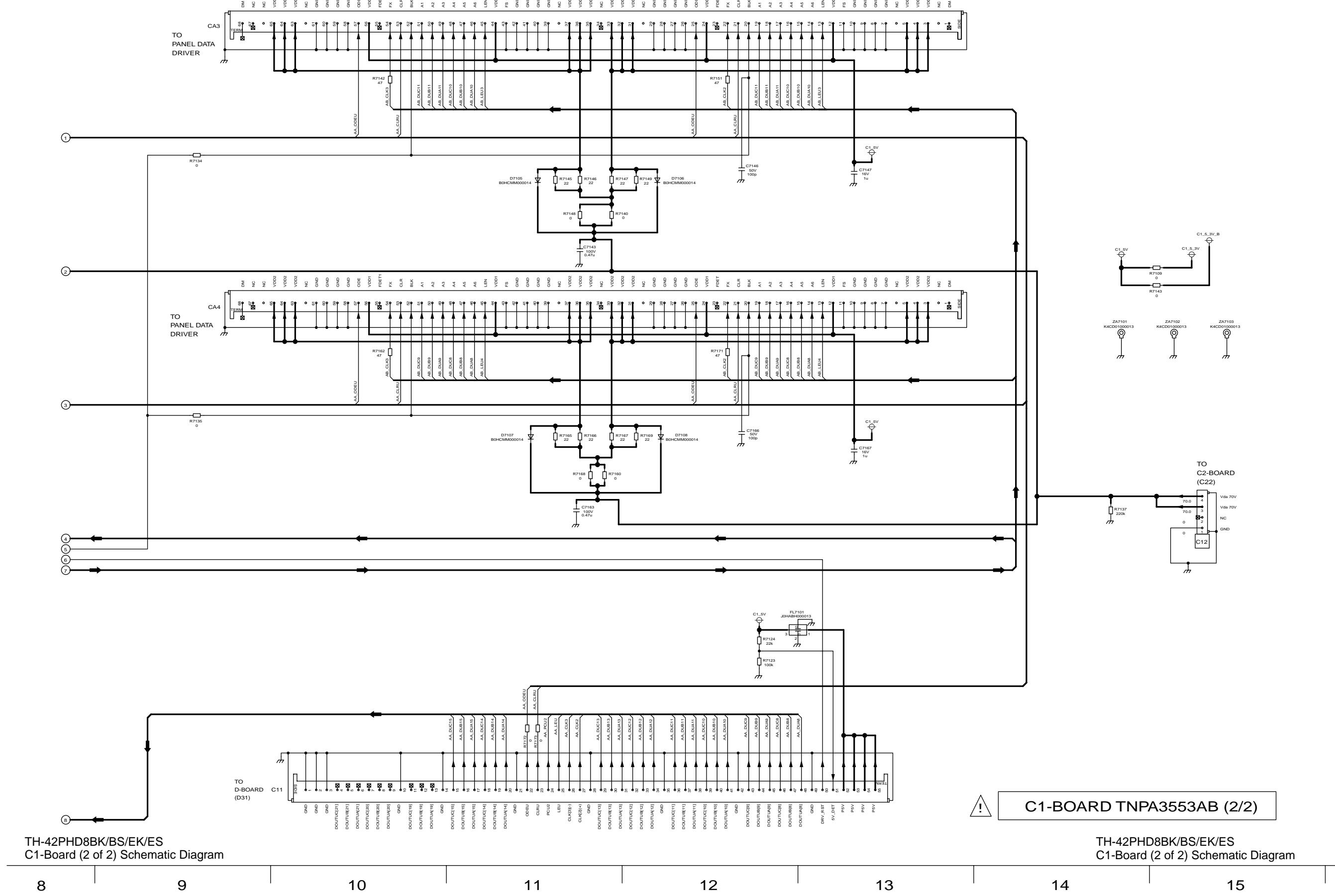
TH-42PHD8BK/BS/EK/ES
C1, C2, C3 and C4-Board Block Diagram

TH-42PHD8BK/BS/EK/ES
C1, C2, C3 and C4-Board Block Diagram

15.32. C1-Board (1 of 2) Schematic Diagram



15.33. C1-Board (2 of 2) Schematic Diagram

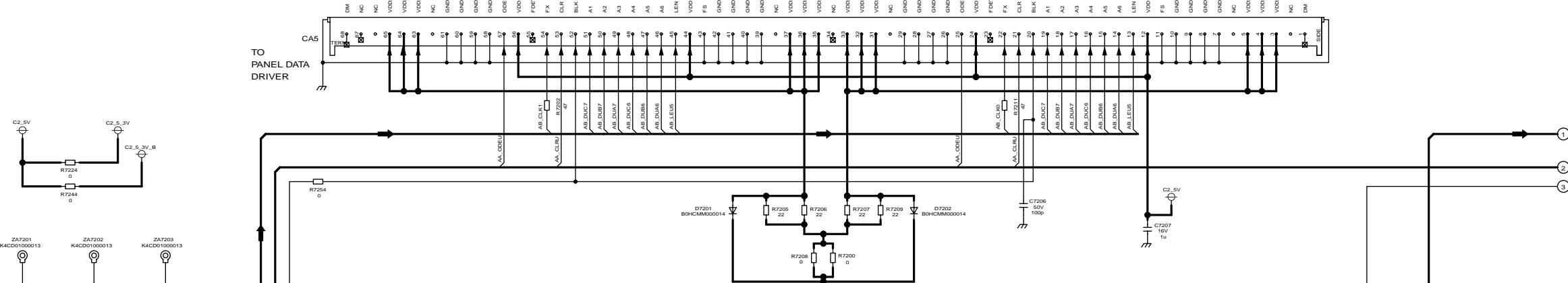


15.34. C2-Board (1 of 2) Schematic Diagram

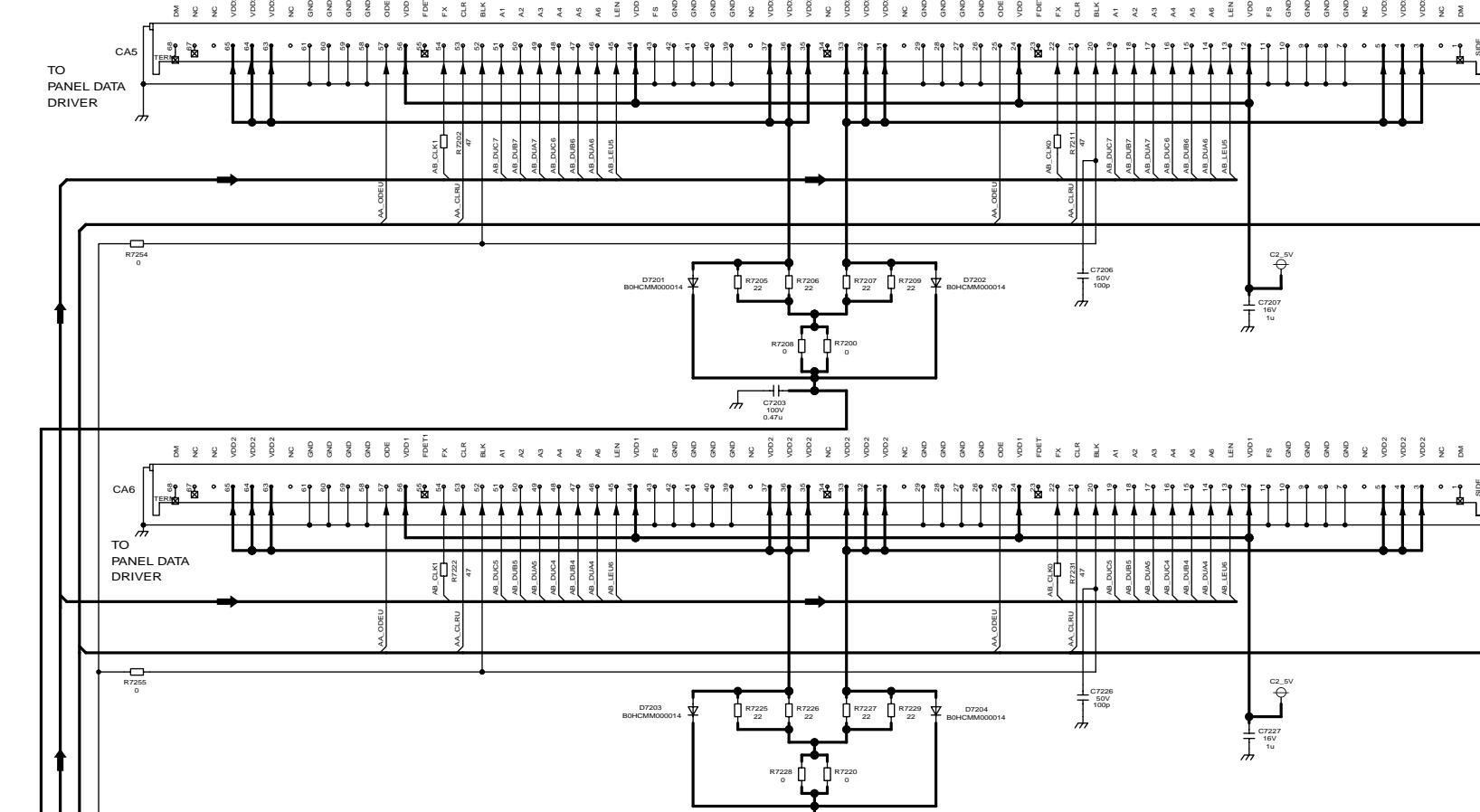


C2-BOARD TNPA3554AB (1/2)

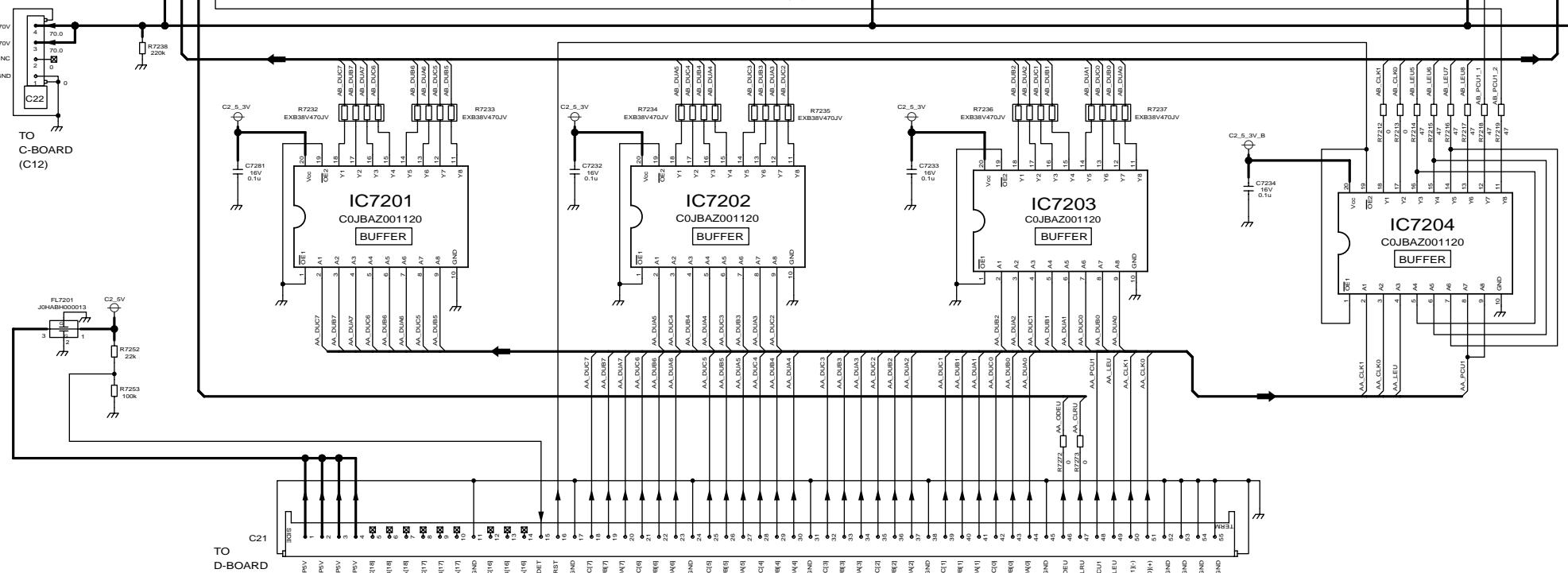
A



B



C



D

TH-42PHD8BK/BS/EK/ES
C2-Board (1 of 2) Schematic Diagram

1

2

3

4

5

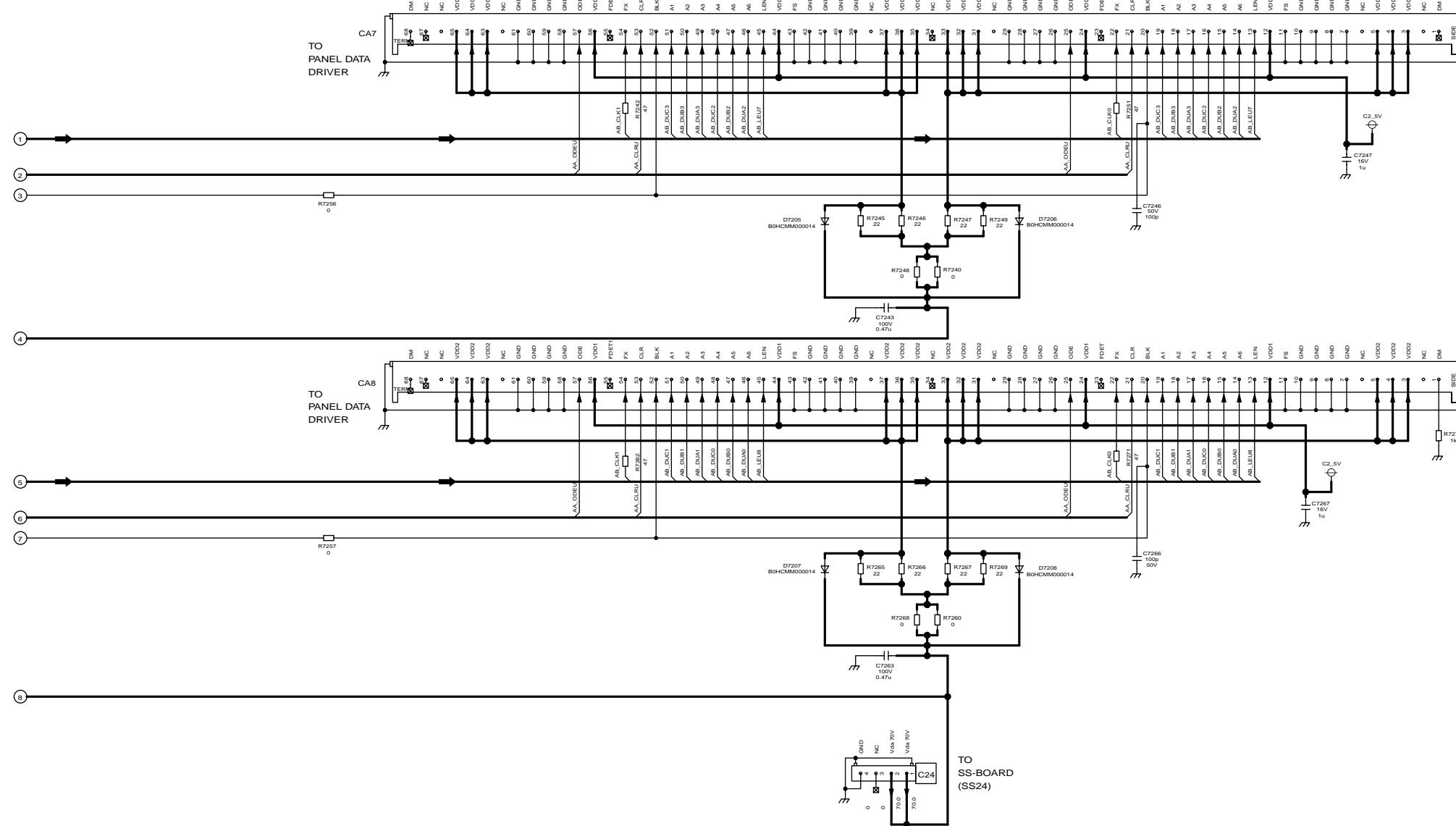
6

7

8

TH-42PHD8BK/BS/EK/ES
C2-Board (1 of 2) Schematic Diagram

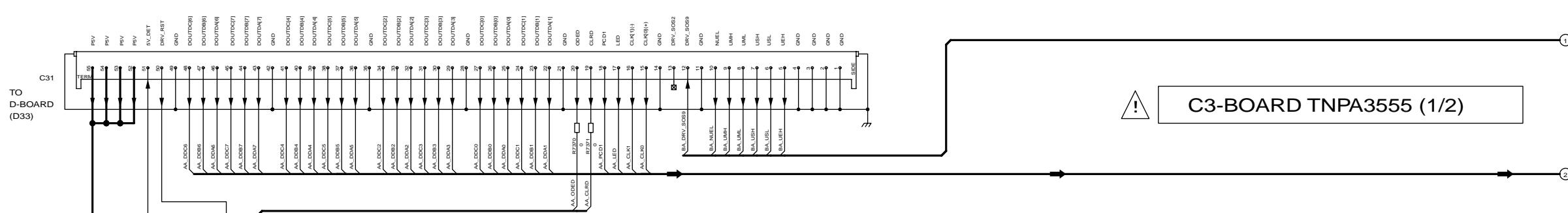
15.35. C2-Board (2 of 2) Schematic Diagram



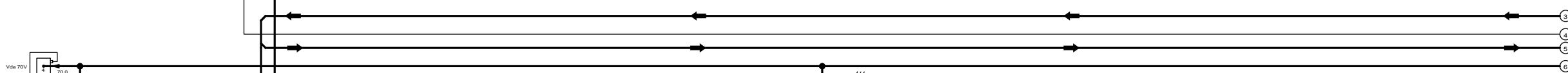
C2-BOARD TNPA3554AB (2/2)

15.36. C3-Board (1 of 2) Schematic Diagram

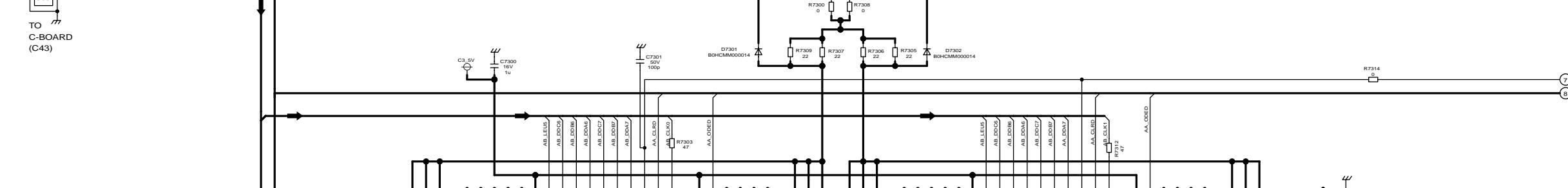
A



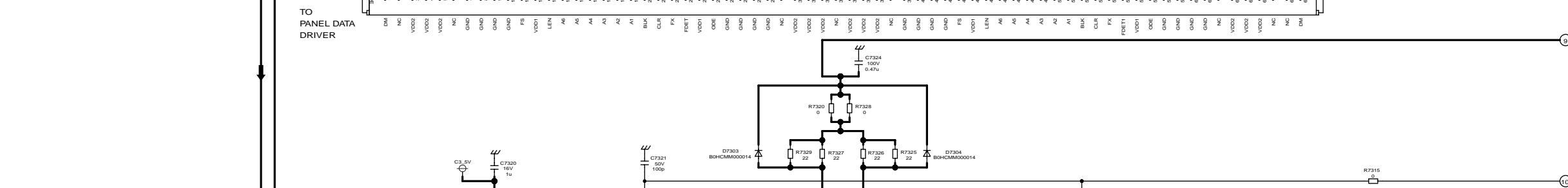
B



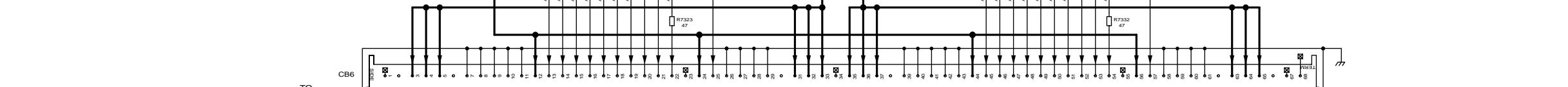
C



D



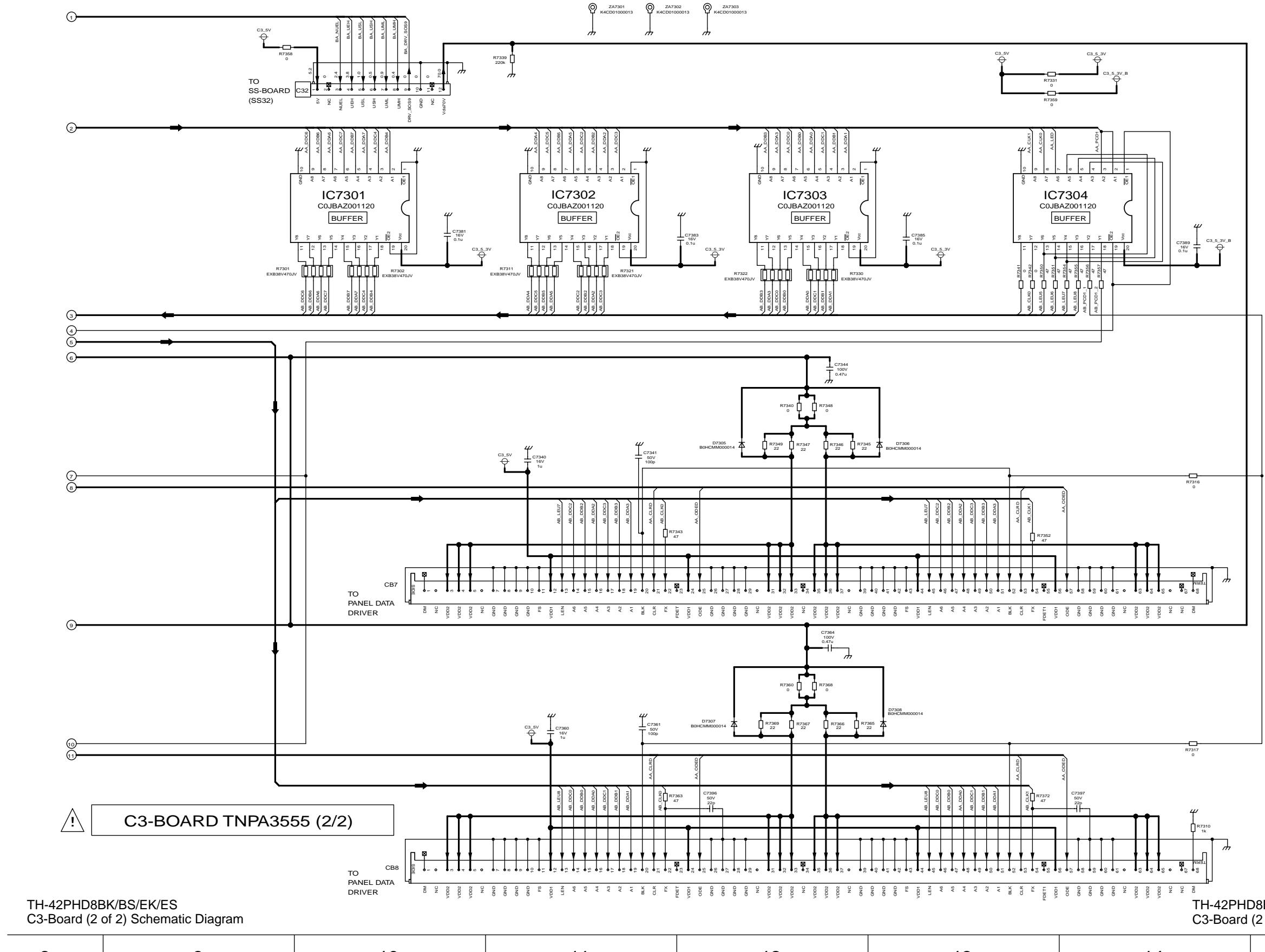
E



TH-42PHD8BK/BS/EK/ES
C3-Board (1 of 2) Schematic Diagram

TH-42PHD8BK/BS/EK/ES
C3-Board (1 of 2) Schematic Diagram

15.37. C3-Board (2 of 2) Schematic Diagram



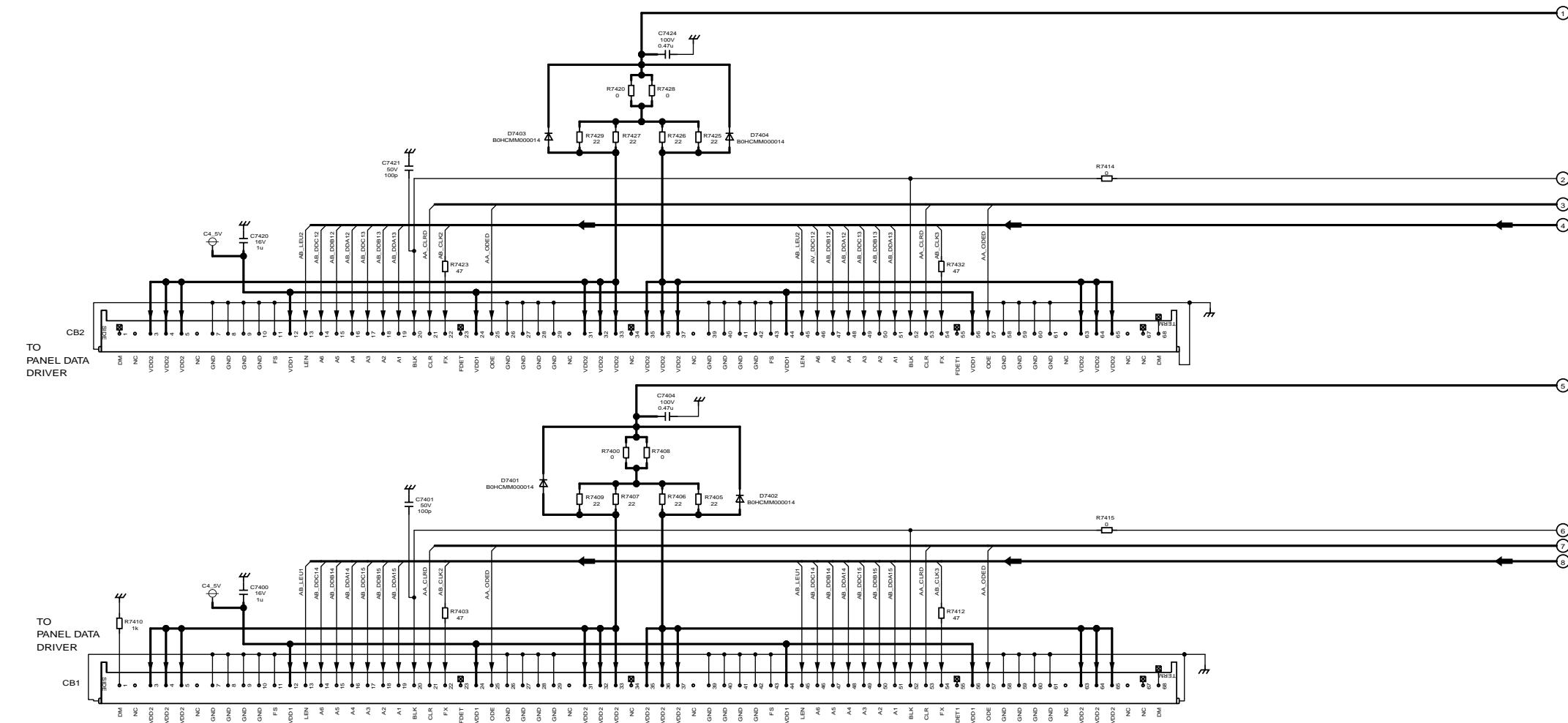
TH-42PHD8BK/BS/EK/ES
C3-Board (2 of 2) Schematic Diagram

TH-42PHD8BK/BS/EK/ES
C3-Board (2 of 2) Schematic Diagram

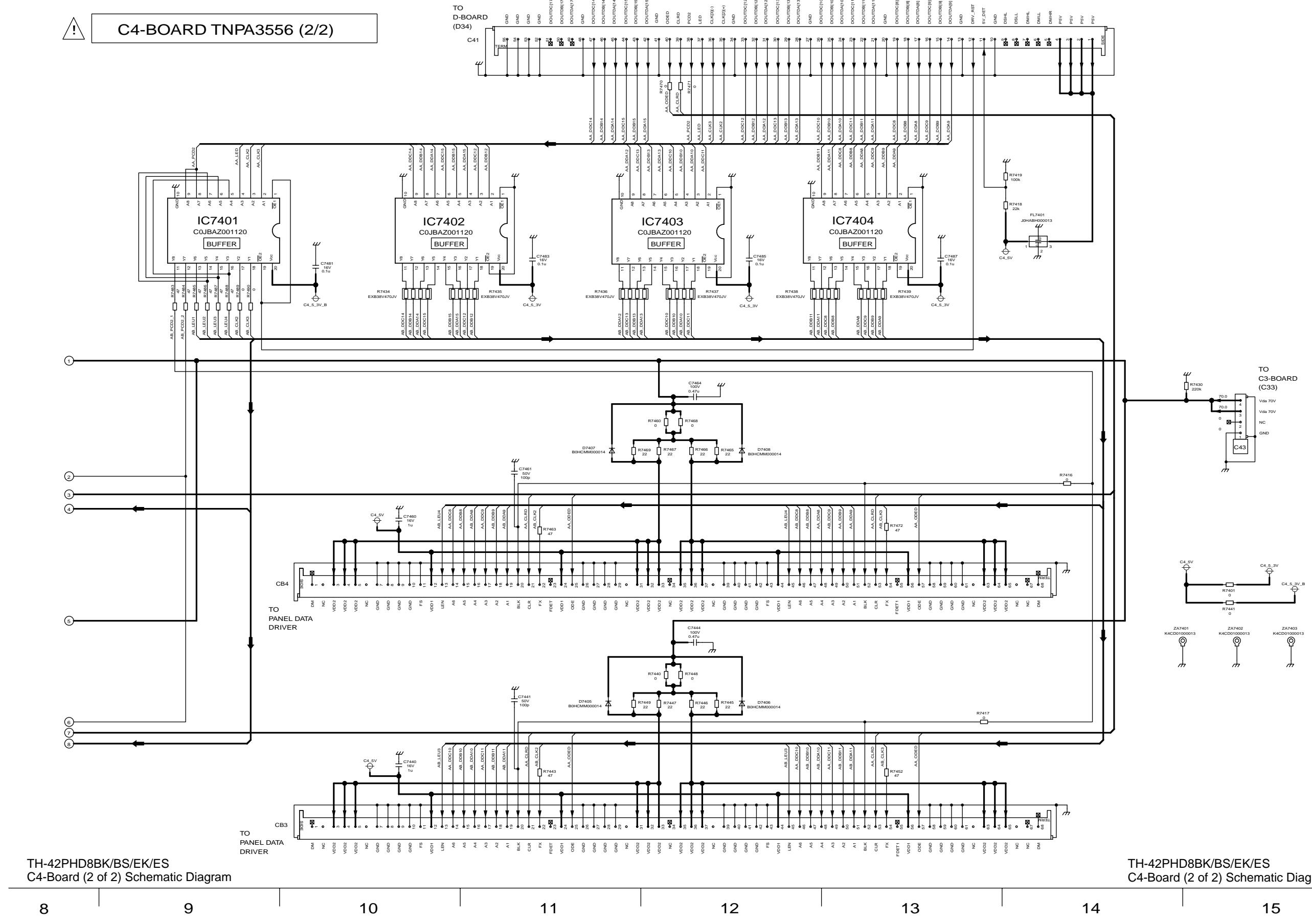
15.38. C4-Board (1 of 2) Schematic Diagram



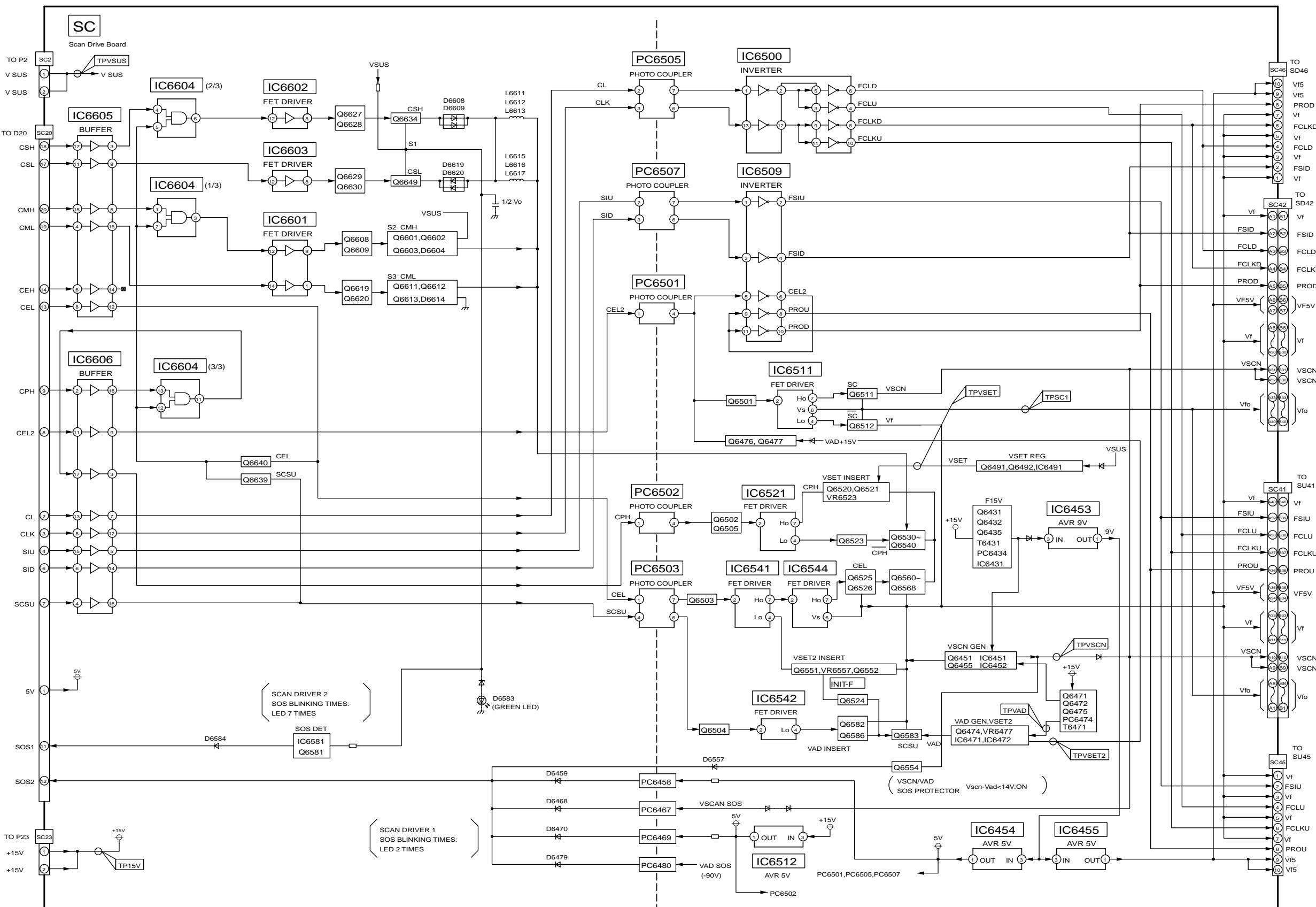
C4-BOARD TNPA3556 (1/2)

TH-42PHD8BK/BS/EK/ES
C4-Board (1 of 2) Schematic DiagramTH-42PHD8BK/BS/EK/ES
C4-Board (1 of 2) Schematic Diagram

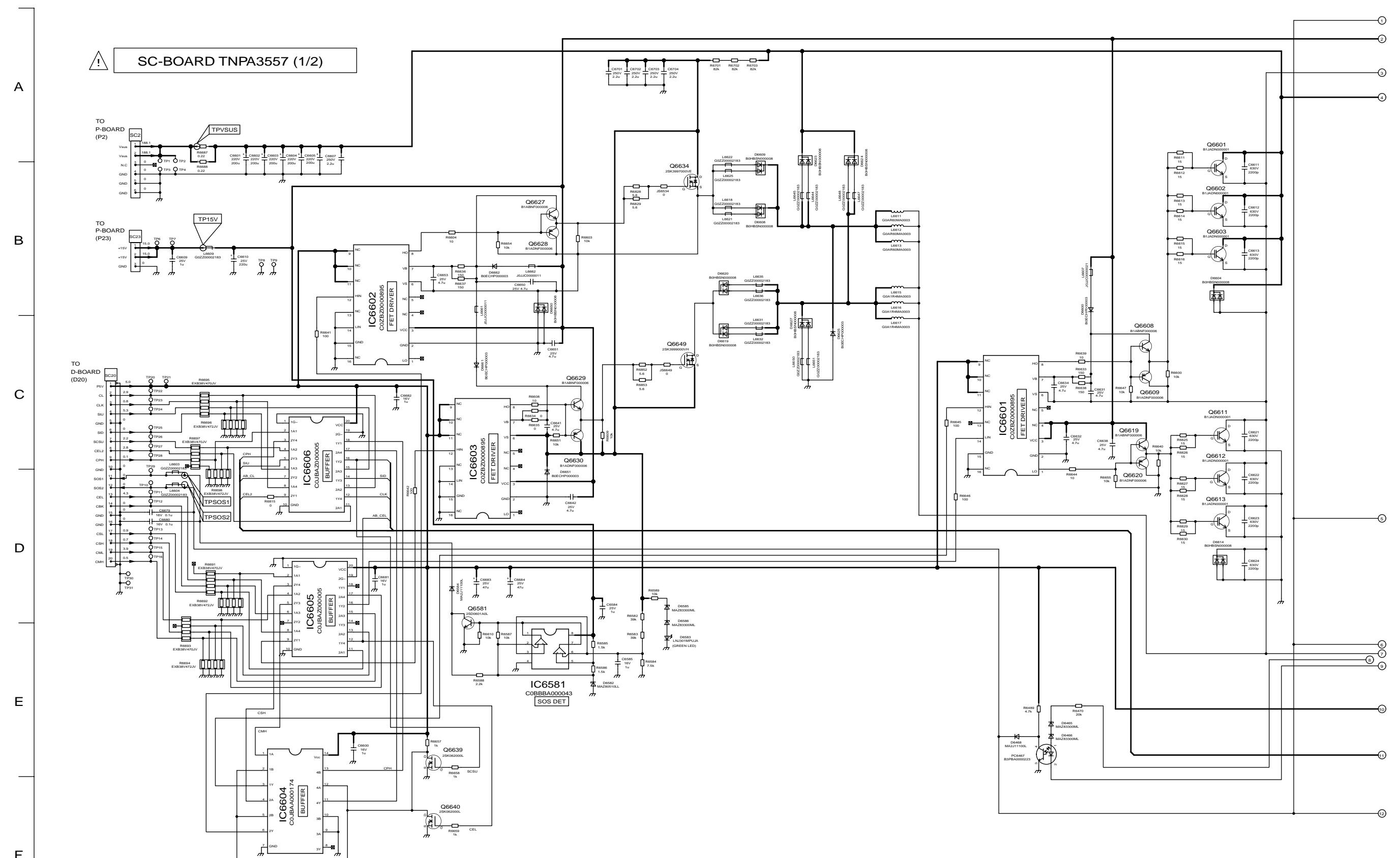
15.39. C4-Board (2 of 2) Schematic Diagram



15.40. SC-Board Block Diagram



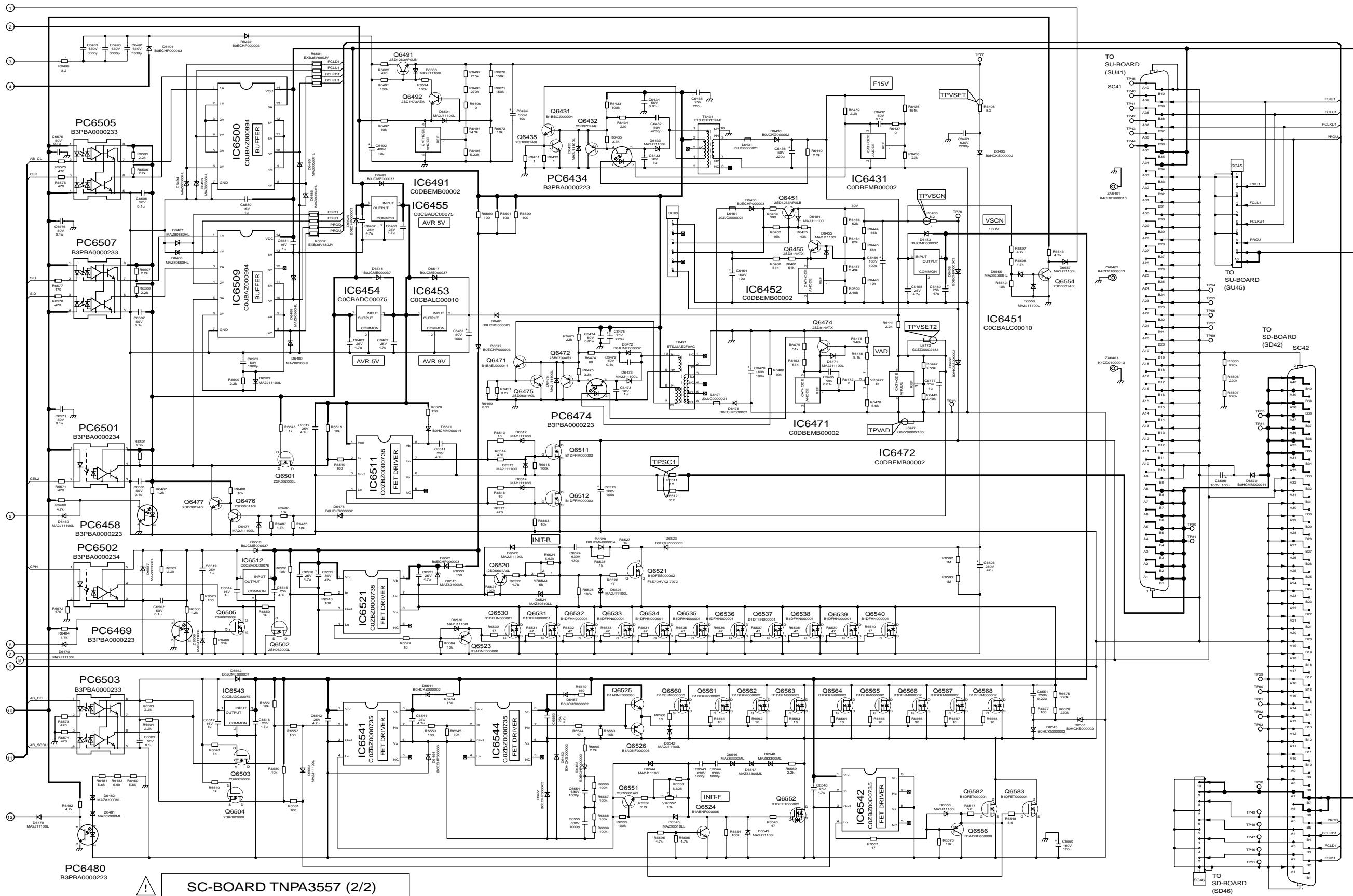
15.41. SC-Board (1 of 2) Schematic Diagram



TH-42PHD8BK/BS/EK/ES
SC-Board (1 of 2) Schematic Diagram

TH-42PHD8BK/BS/EK/ES
SC-Board (1 of 2) Schematic Diagram

15.42. SC-Board (2 of 2) Schematic Diagram

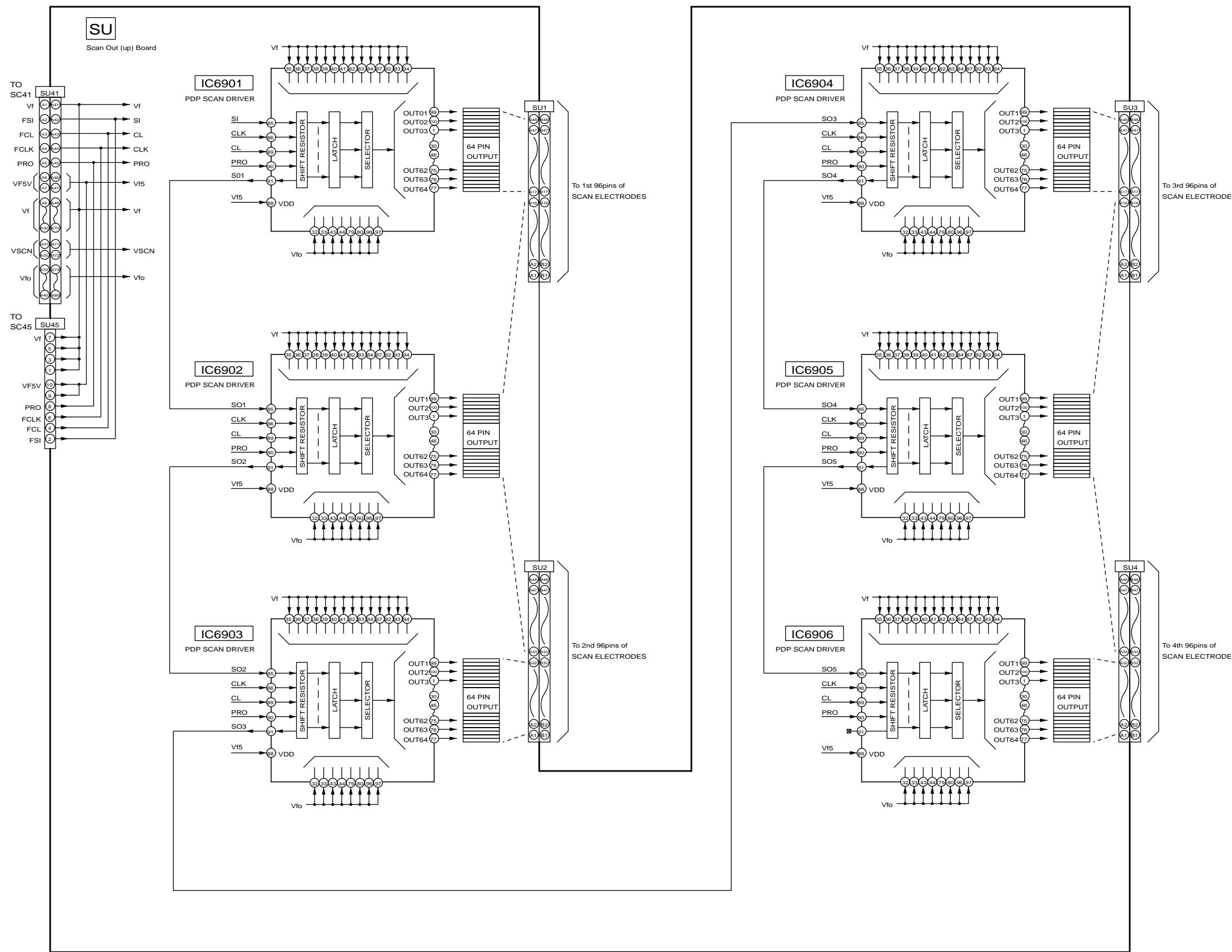


TH-42PHD8BK/BS/EK/ES
SC-Board (2 of 2) Schematic Diagram

TH-42PHD8BK/BS/EK/ES
SC-Board (2 of 2) Schematic Diagram

10 11 12 13 14 15 16 17 18

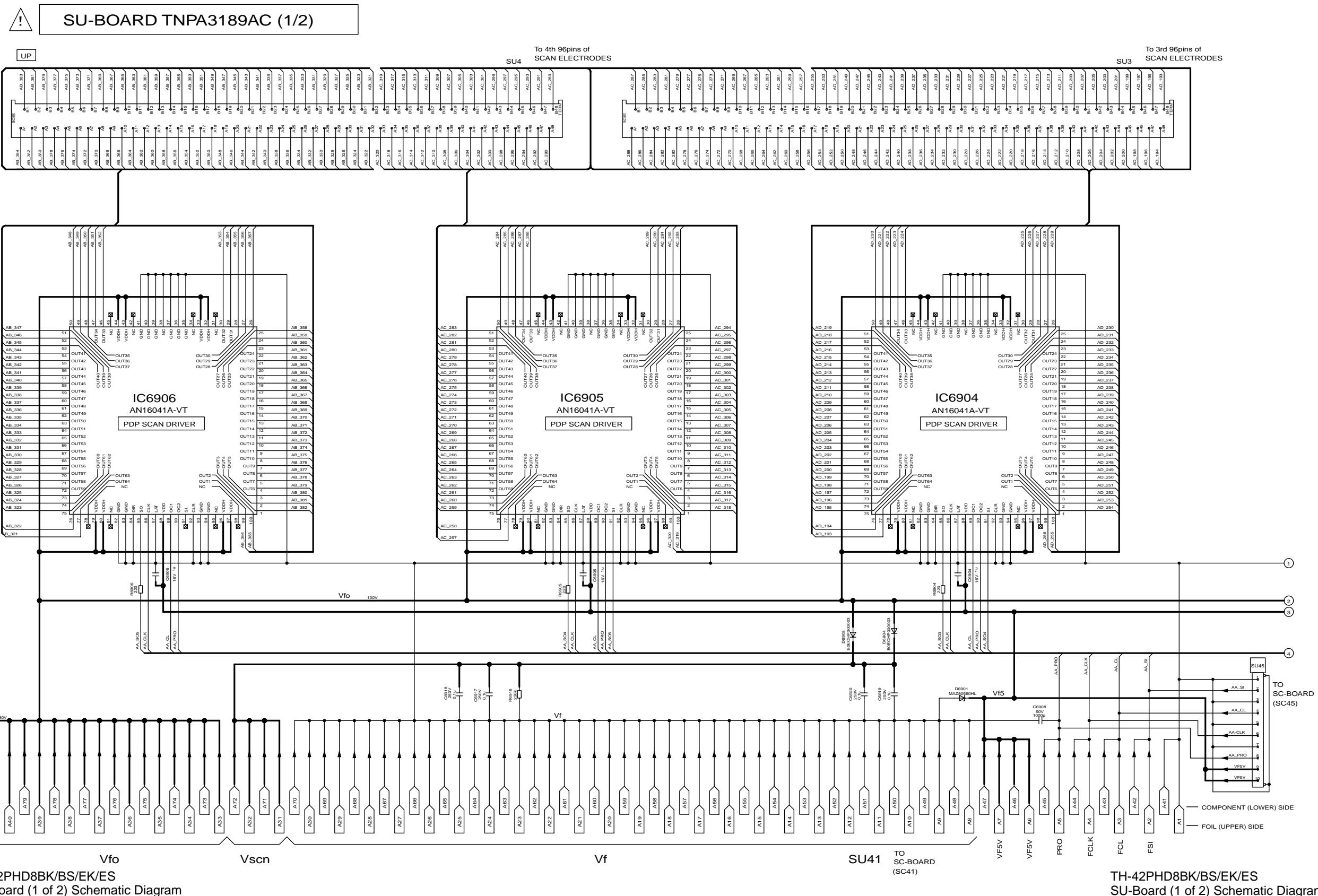
15.43. SU-Board Block Diagram



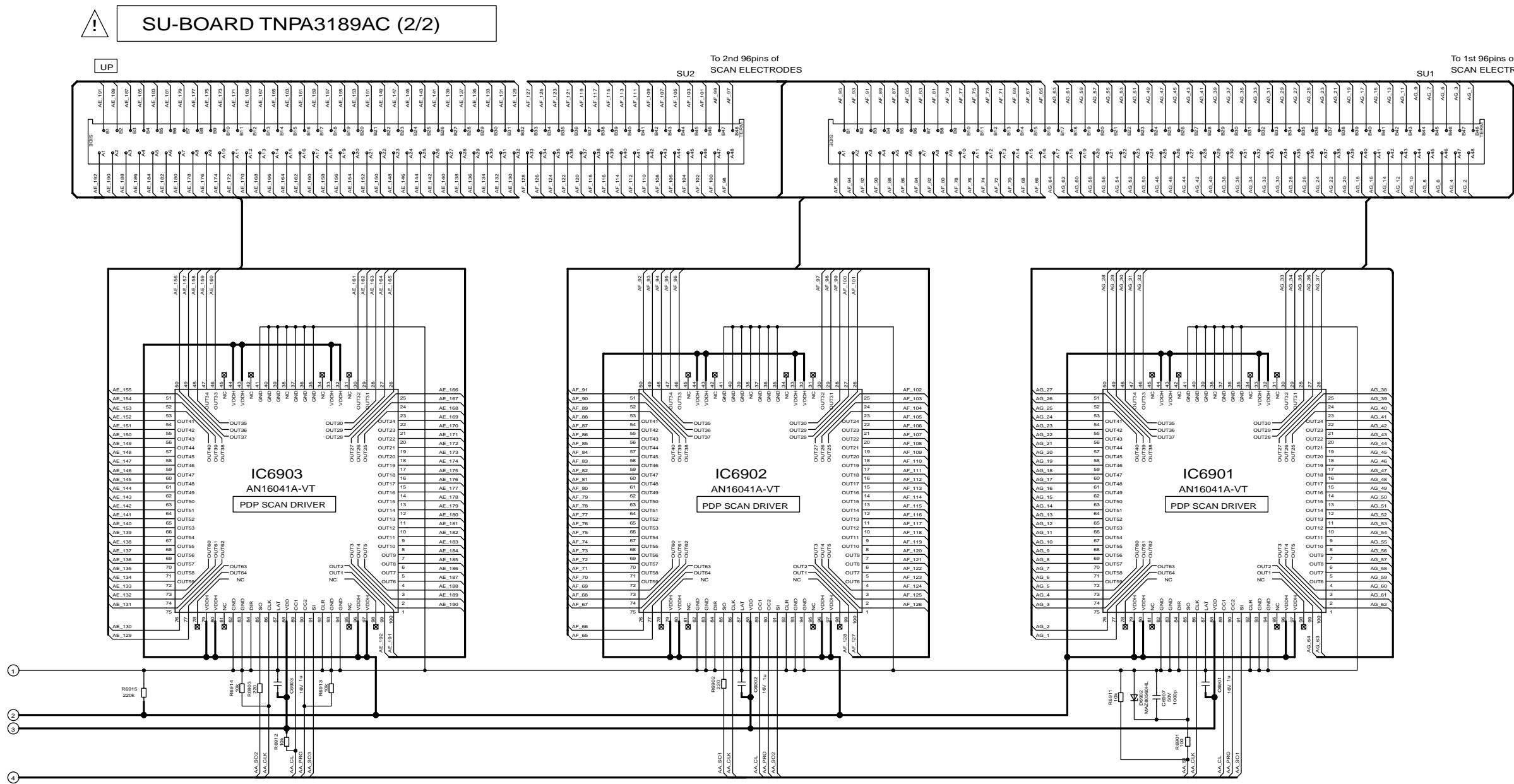
TH-42PHD8BK/BS/EK/ES
SU-Board Block Diagram

TH-42PHD8BK/BS/EK/ES
SU-Board Block Diagram

15.44. SU-Board (1 of 2) Schematic Diagram



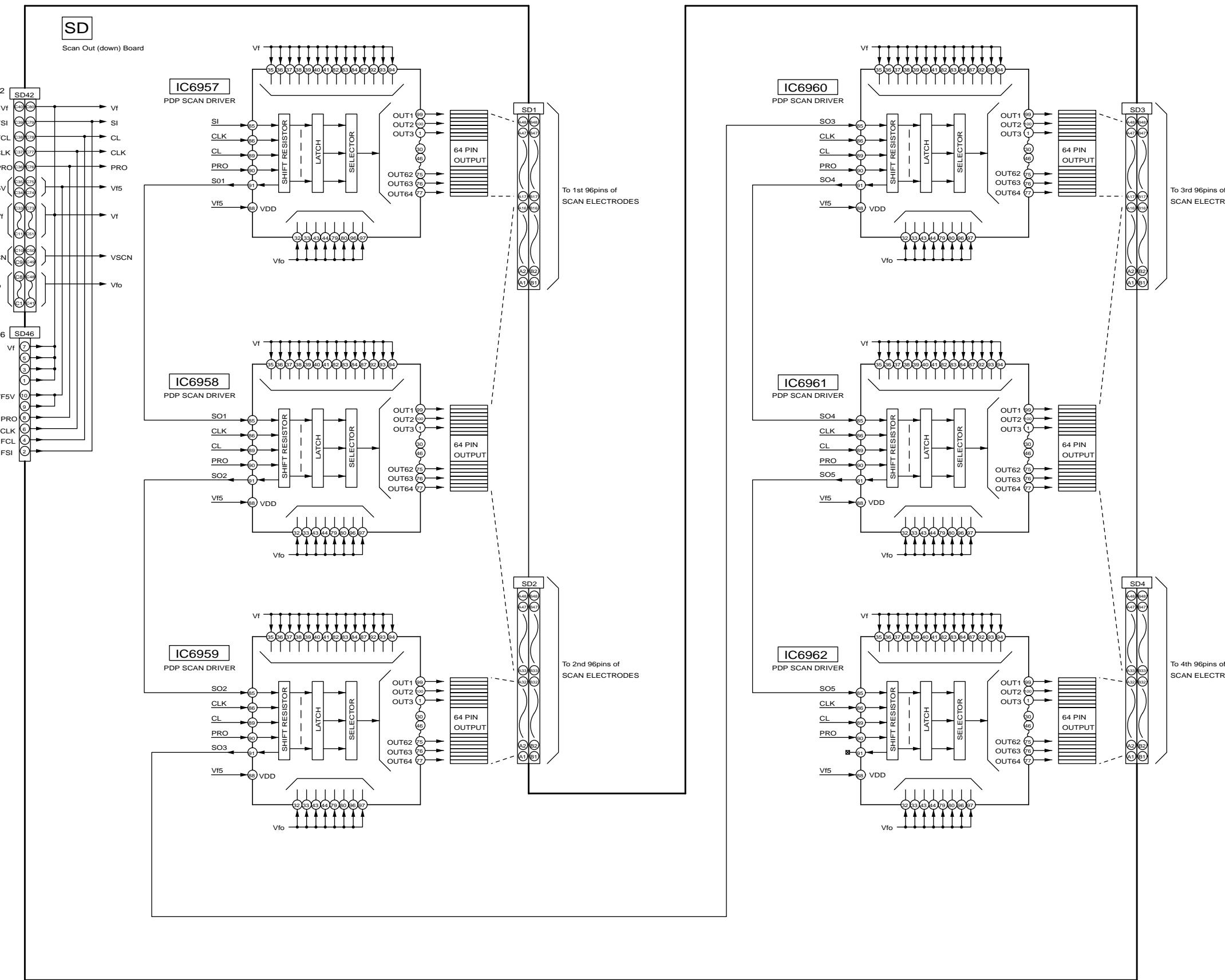
15.45. SU-Board (2 of 2) Schematic Diagram



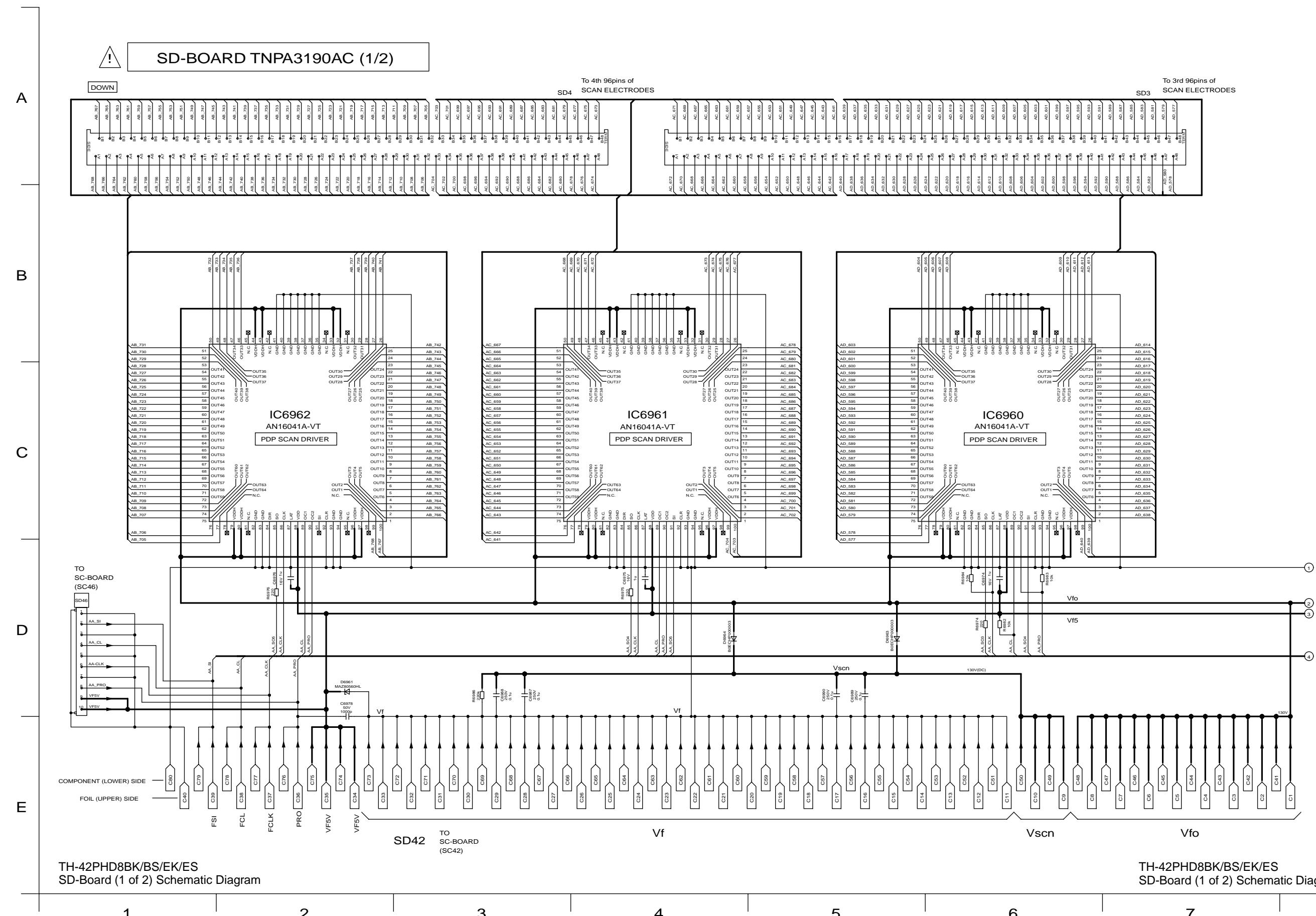
TH-42PHD8BK/BS/EK/ES
SU-Board (2 of 2) Schematic Diagram

TH-42PHD8BK/BS/EK/ES
SU-Board (2 of 2) Schematic Diagram

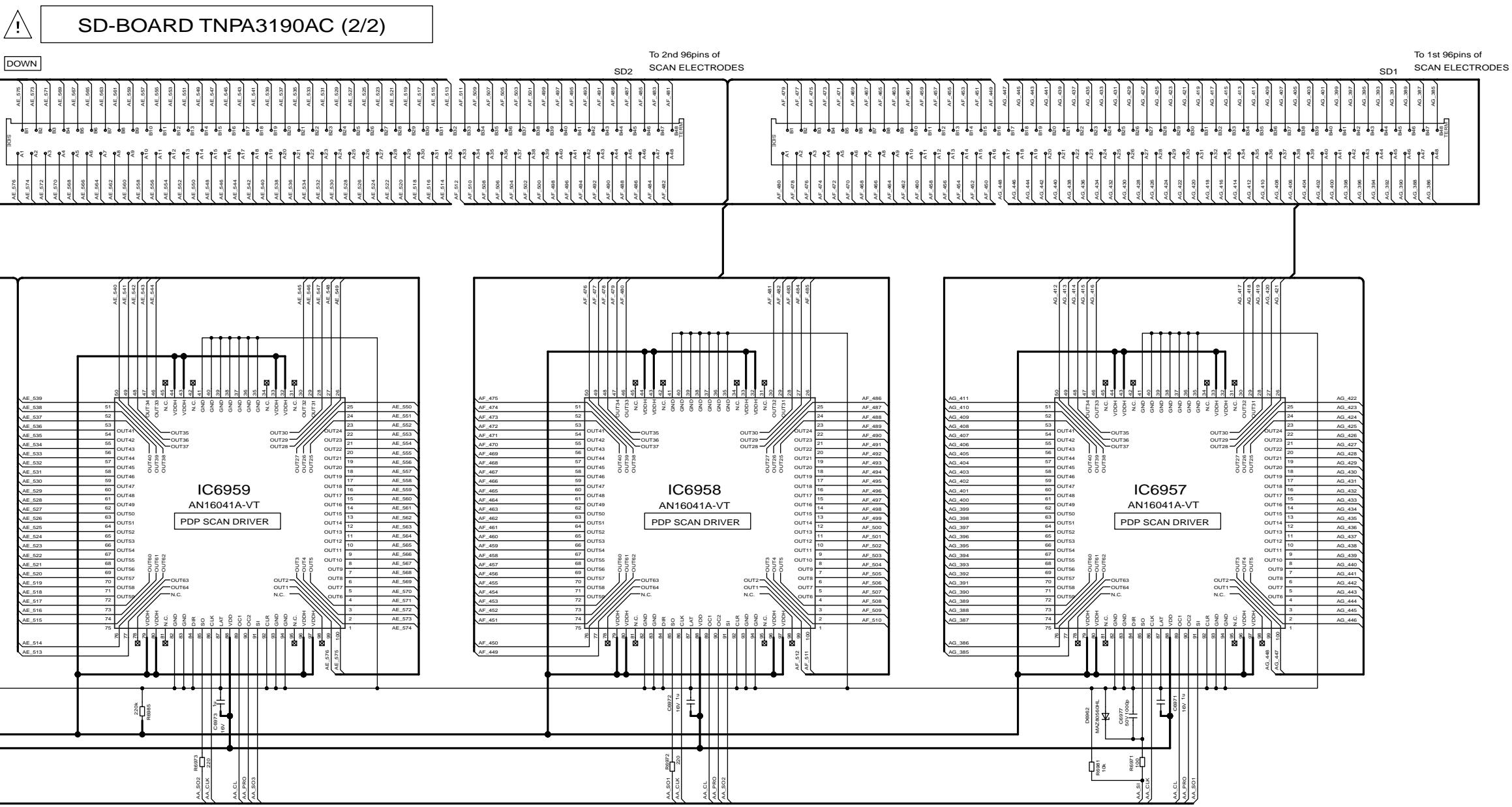
15.46. SD-Board Block Diagram



15.47. SD-Board (1 of 2) Schematic Diagram



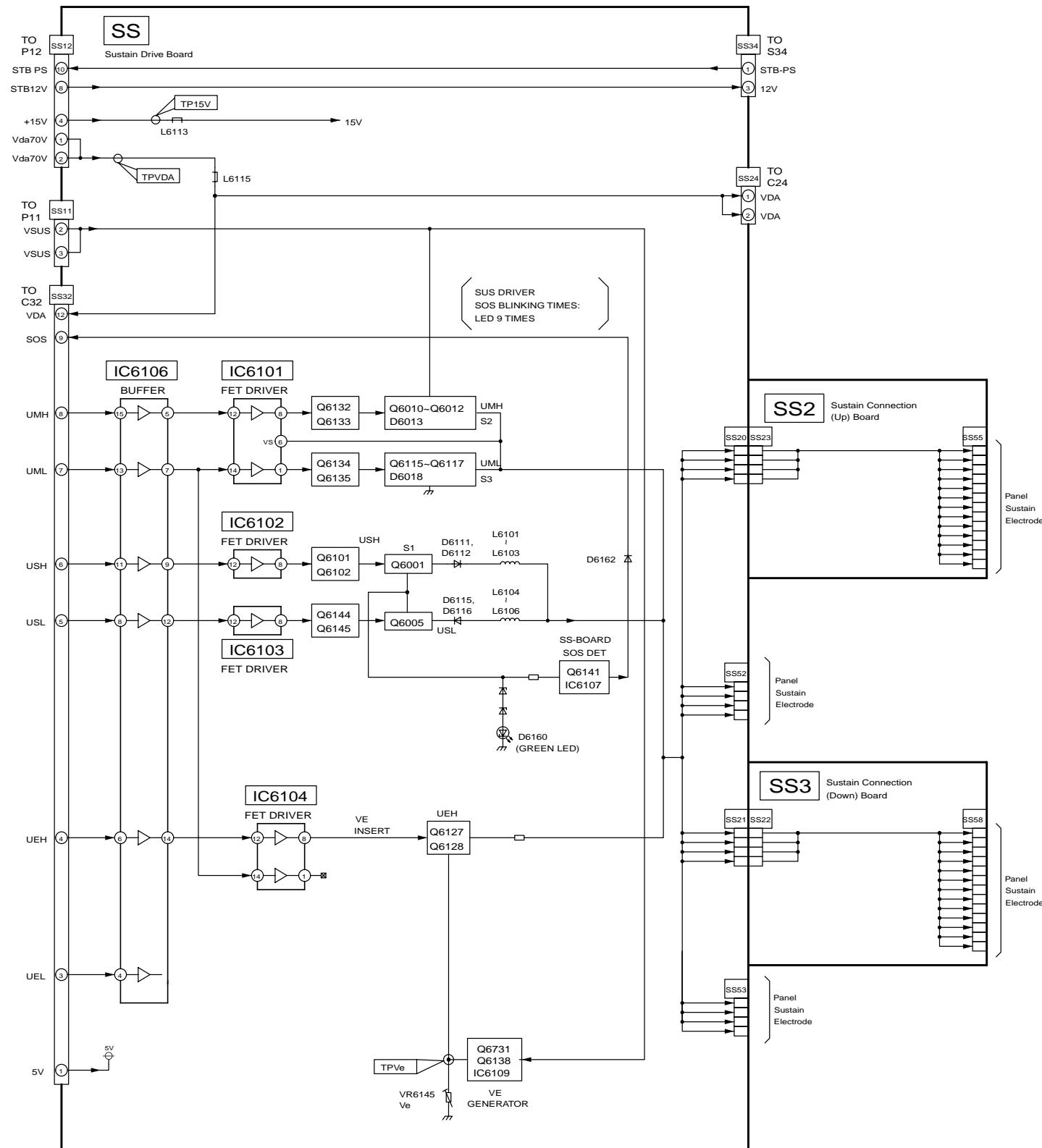
15.48. SD-Board (2 of 2) Schematic Diagram



TH-42PHD8BK/BS/EK/ES
SD-Board (2 of 2) Schematic Diagram

TH-42PHD8BK/BS/EK/ES
SD-Board (2 of 2) Schematic Diagram

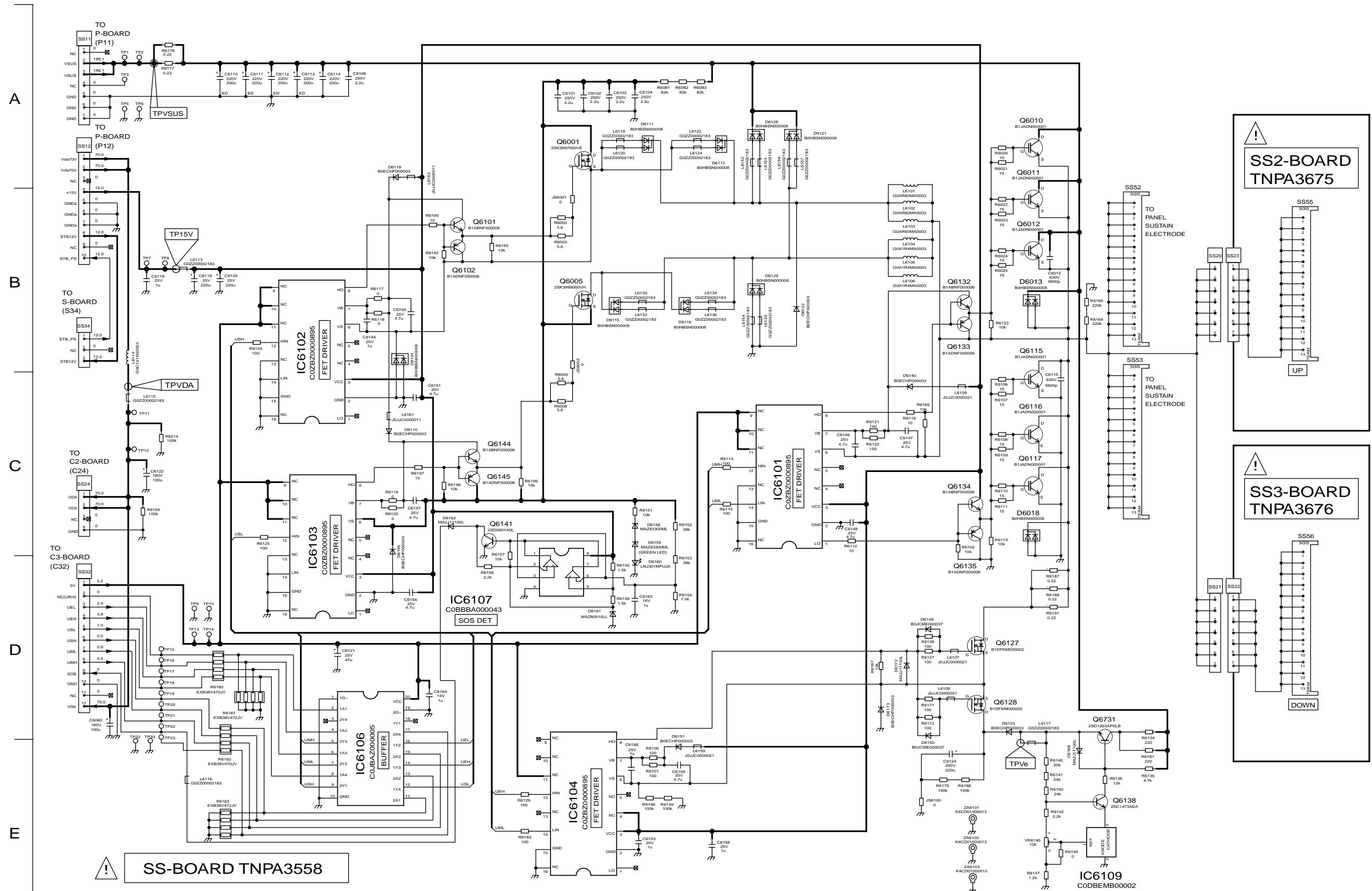
15.49. SS, SS2 and SS3-Board Block Diagram



TH-42PHD8BK/BS/EK/ES
SS, SS2 and SS3-Board Block Diagram

TH-42PHD8BK/BS/EK/ES
SS, SS2 and SS3-Board Block Diagram

15.50. SS, SS2 and SS3-Board Schematic Diagram

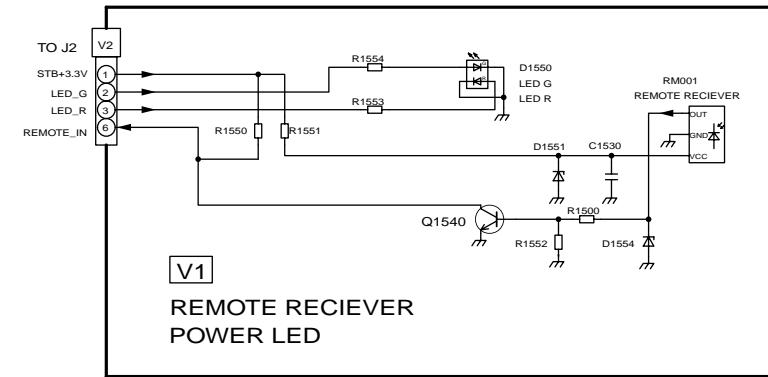


TH-42PHD8BK/BS/EK/ES
SS, SS2 and SS3-Board Schematic Diagram

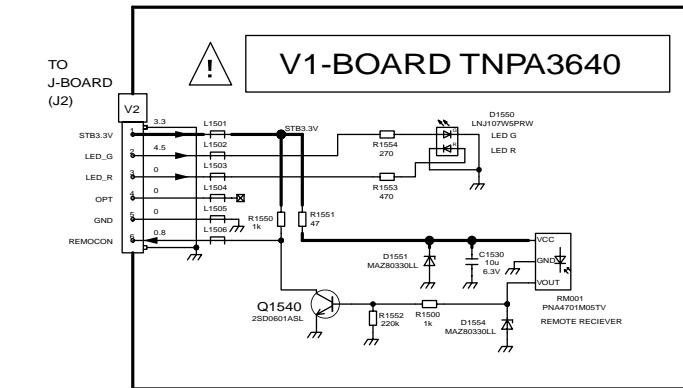
TH-42PHD8BK/BS/EK/ES
SS, SS2 and SS3-Board Schematic Diagram

15.51. S1, V1 and V2-Board Block and Schematic Diagram

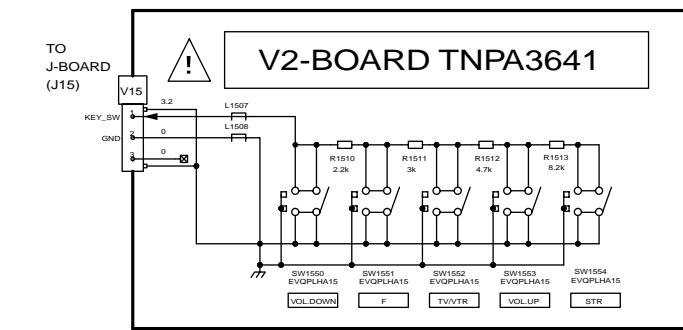
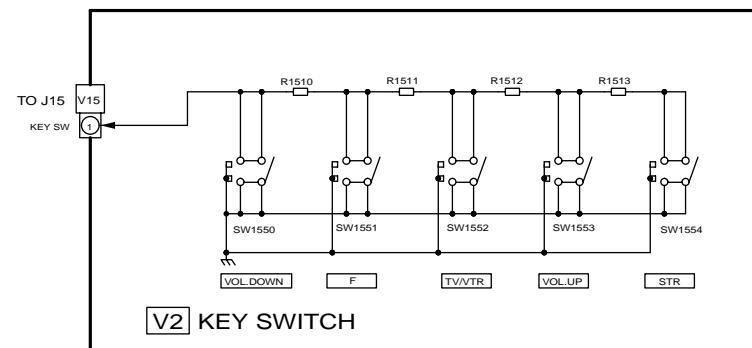
A



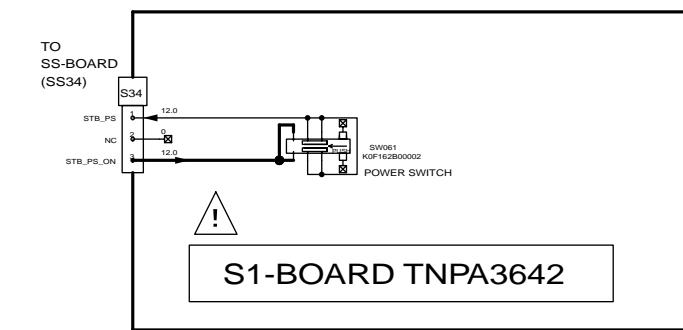
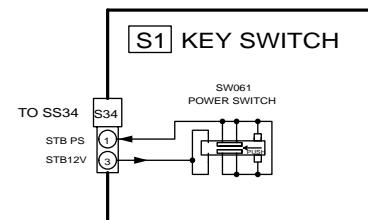
B



C



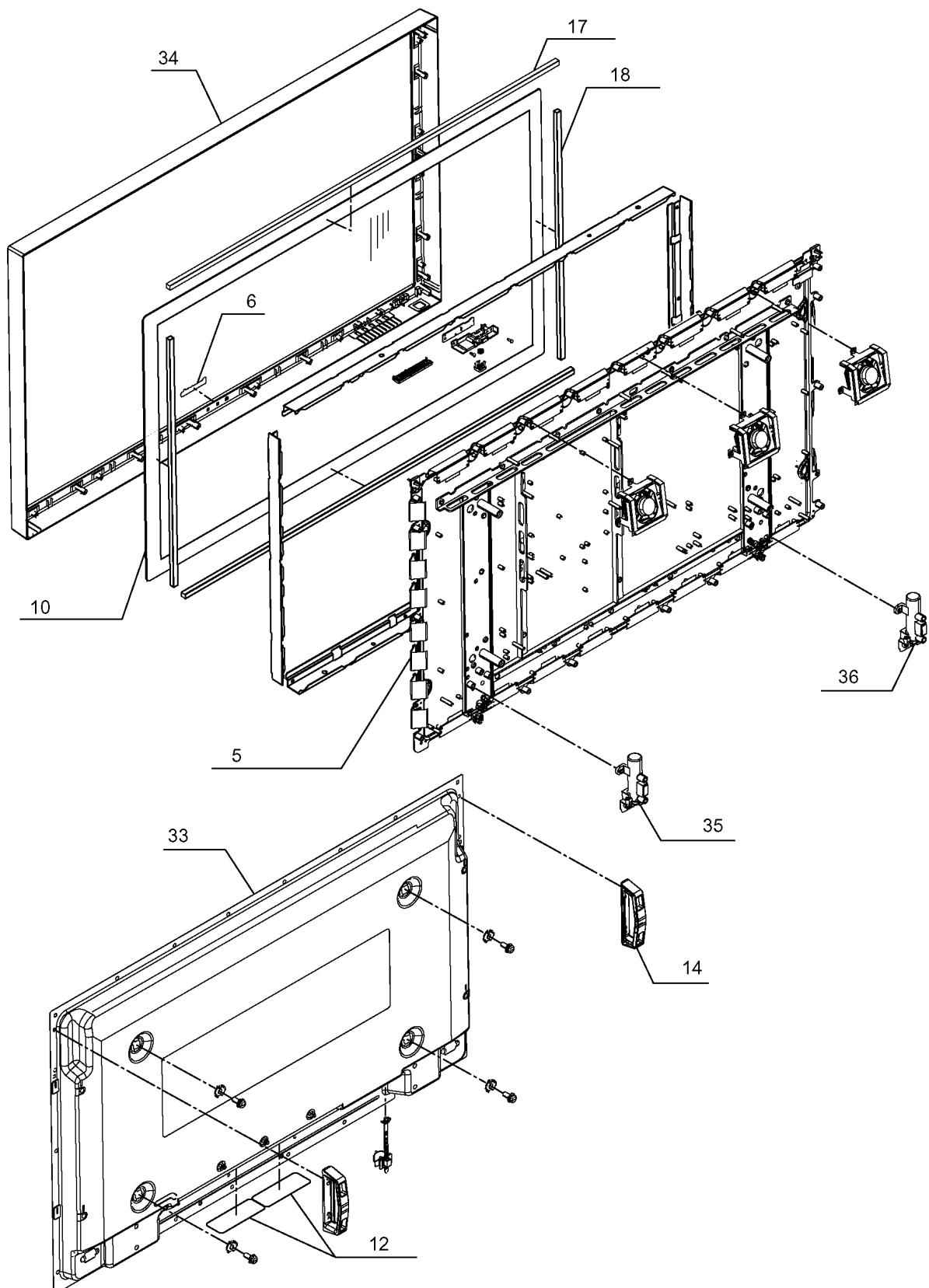
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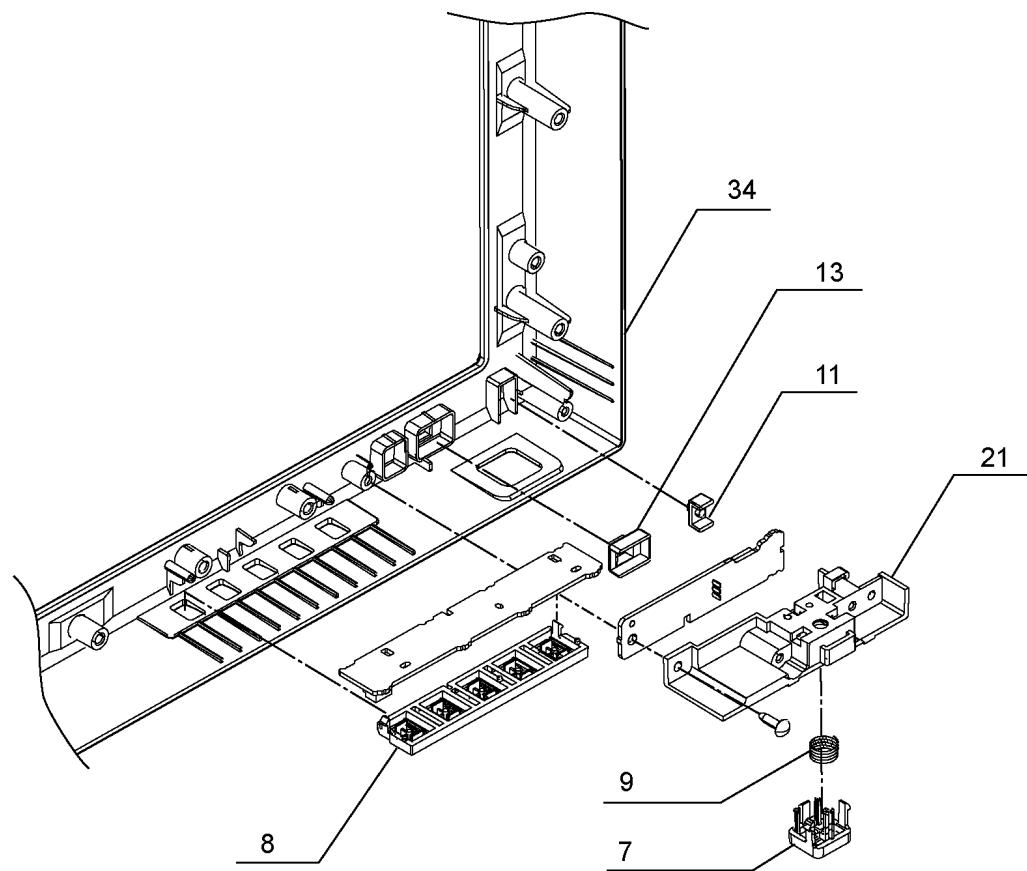
E

16 Parts Location

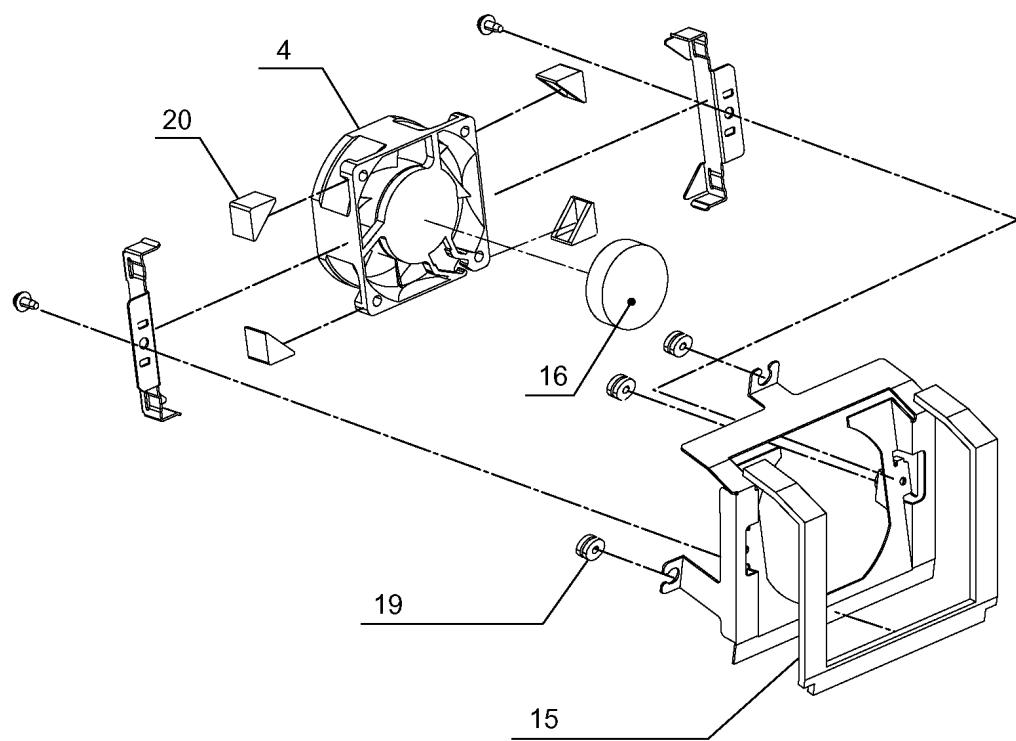
16.1. Exploded View



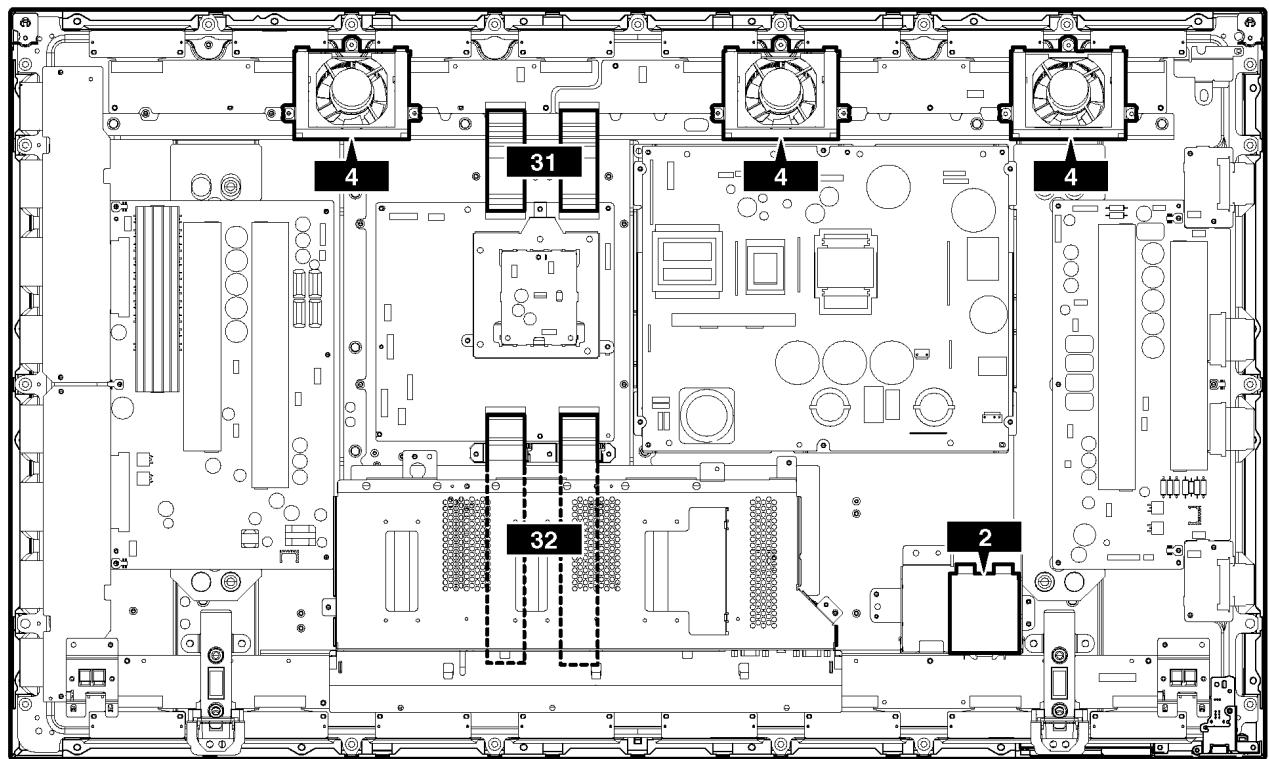
16.1.1. Escutcheon part location enlarged view



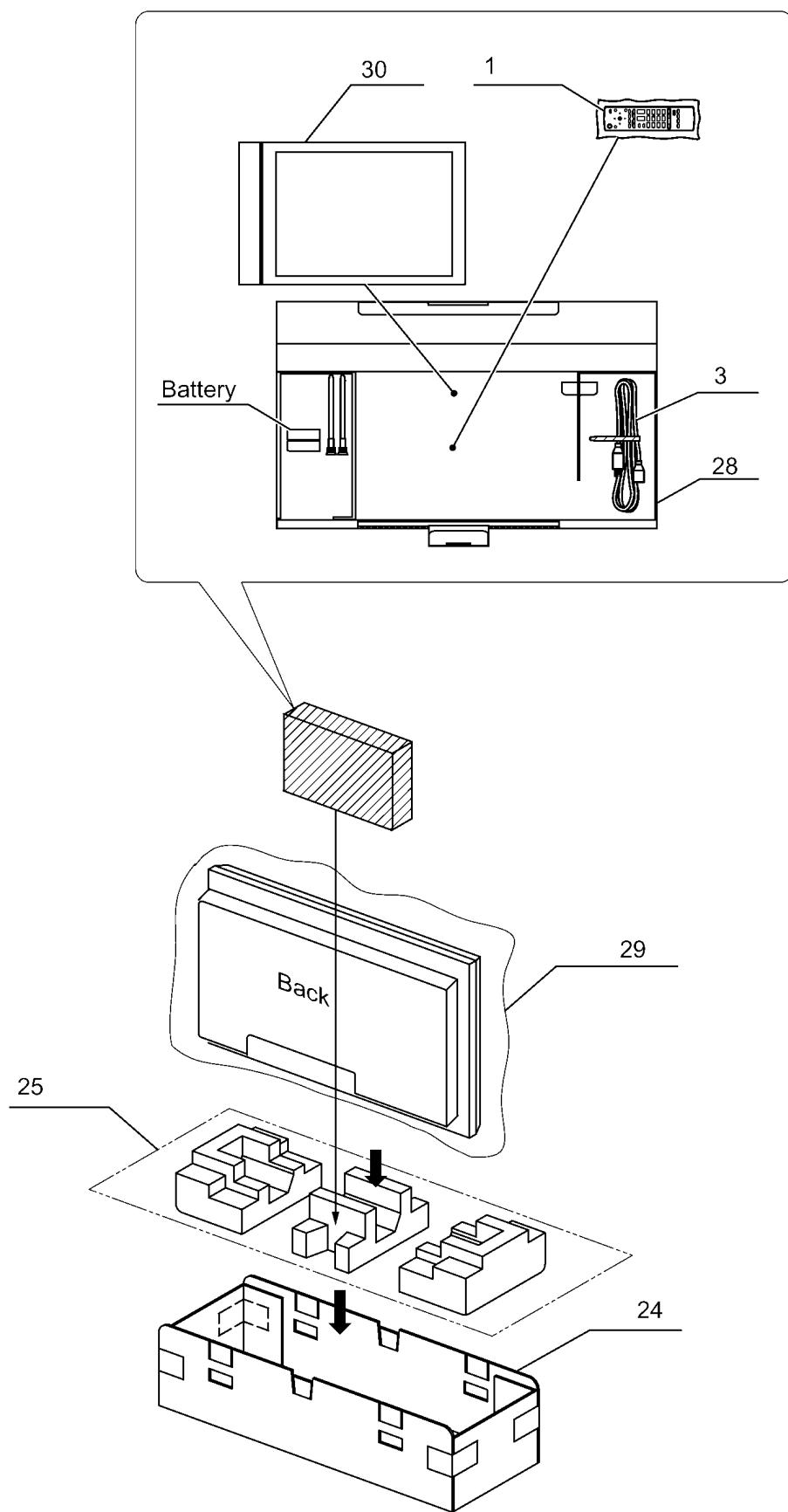
16.1.2. Fan relation

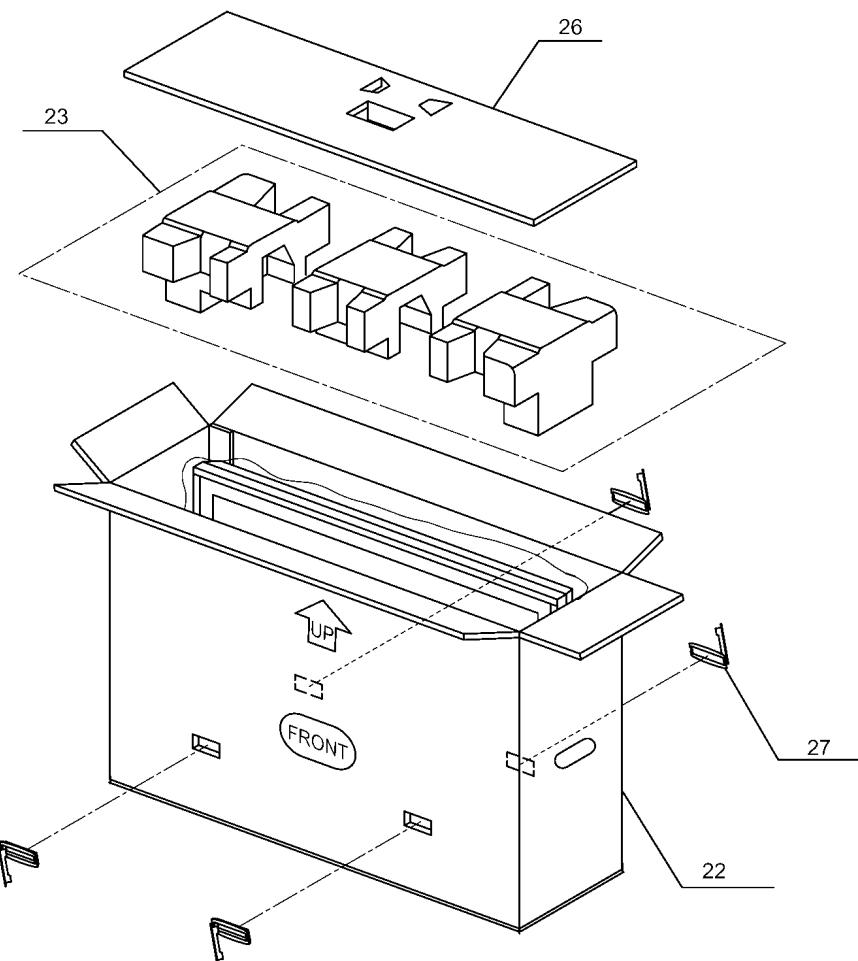


16.2. Cable relation

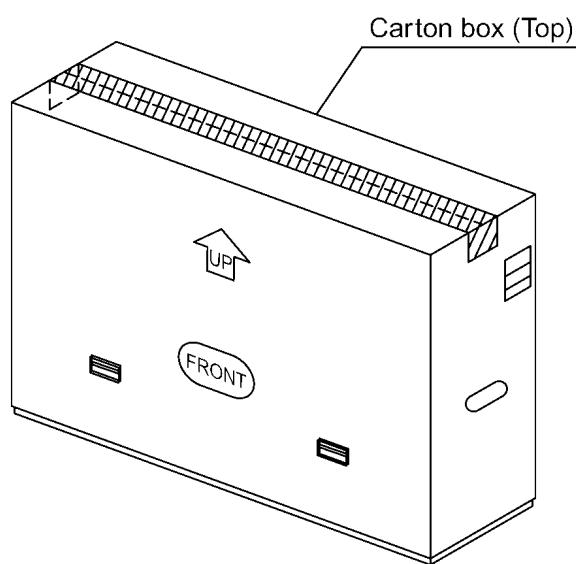


16.3. Packing summary





Complete package



17 Mechanical Replacement Parts List

Note:

All parts except parts mentioned [PAVCCZ] in the Remarks column are supplied by AVC-SPC.

Parts mentioned [PAVCCZ] are supplied by PAVCCZ.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	EUR7636090R	REMOTE CONTROL	1	PAVCCZ (or EUR7636070R)
	J0KD0000095	FLAT CORE	2	
	J0KG0000011	FERRITE CORE	1	
2	K2AH3H000033	AC INLET	1	▲
3	K2CN3DH00006	AC CORD(B/H)	1	EK/ES ▲
3	K2CT3DH00018	AC CORD(B/H)	1	BK/BS ▲
4	L6FAKEHD0010	FAN(SMALL)	3	
5	MD42H08A1J	PLASMA DISPLAY PANEL	1	▲
6	TBMA162	PANASONIC BADGE	1	
7	TBXA46601	POWER BUTTON	1	EK/BK
7	TBXA46602	POWER BUTTON	1	ES/BS
8	TBXA46701	5KEY BUTTON	1	EK/BK
8	TBXA46702	5KEY BUTTON	1	ES/BS
9	TESD031	SPRING	1	
	THEA068N	SCREW	4	
	THEL0239	SCREW	18	
	THEL027N	SCREW	20	
	THEL035N	SCREW	40	
	THEL037N	SCREW	4	
	THEL0439	SCREW(FLOCK)	10	
	THTD010N	SCREW	9	
	THTD011J	SCREW	3	
10	TKGA5224	FRONT GLASS	1	PAVCCZ
11	TKKC5213	LED PANEL	1	
12	TKKL5266	COVER	2	
13	TKPA95001	REMOTE SENSOR PANEL	1	EK/BK
13	TKPA95002	REMOTE SENSOR PANEL	1	ES/BS
14	TKRA29801	HANDLE	2	
15	TMKG328	CUSHION (FAN)	3	
16	TMKG335	SPONGE (FAN CENTER)	3	
17	TMKG556	SPONGE T/B	2	
18	TMKG557	SPONGE L/R	2	
	TMM15414-2	CLAMPER	2	
	TMM17499	CLAMPER	1	
	TMM25401	CLAMPER	3	
	TMM6496-1	CLAMPER	1	
	TMM7464-2	CLAMPER	4	
	TMM7468-1	CLAMPER	2	
	TMME047	CLAMPER	1	
	TMME061	CLAMPER	3	
	TMME185	CLAMPER	2	
	TMME187	CLAMPER	2	
	TMME199	CLAMPER	9	
	TMME228	CLAMPER	2	
	TMME248	CLAMPER	1	
19	TMMJ074	CUSHION (RUBBER)	9	
20	TMMJ078	CUSHION (RUBBER)	12	
	TMMX095	BRACKET	2	
21	TMWC015	POWER BUTTON BRACKET	1	
22	TPC0E64001	CARTON BOX TOP	1	PAVCCZ
23	TPD0E0099	CUSHION TOP	1	PAVCCZ
24	TPC0E61101	CARTON BOX BOTTOM	1	PAVCCZ
25	TPD0E0100	CUSHION BOTTOM	1	PAVCCZ
26	TPD0E9008	TOP PAD	1	PAVCCZ
27	TPD169487	JOINT	4	
28	TPDF1197	CUSHION	1	
29	TPE0E4010	PROTECT COVER	1	PAVCCZ

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
30	TQB0E0217A	INSTRUCTION BOOK(ENGLISH)	1	PAVCCZ EK/ES ▲
30	TQB0E0217B	INSTRUCTION BOOK(GERMAN)	1	PAVCCZ EK/ES ▲
30	TQB0E0217C	INSTRUCTION BOOK(ITALIAN)	1	PAVCCZ EK/ES ▲
30	TQB0E0217D	INSTRUCTION BOOK(FRENCH)	1	PAVCCZ EK/ES ▲
30	TQB0E0217E	INSTRUCTION BOOK(SPANISH)	1	PAVCCZ EK/ES ▲
30	TQB0E0217F	INSTRUCTION BOOK(DUTCH)	1	PAVCCZ EK/ES ▲
30	TQB0E0217K	INSTRUCTION BOOK(DANISH)	1	PAVCCZ EK/ES ▲
30	TQB0E0217U	INSTRUCTION BOOK(SWEDISH)	1	PAVCCZ EK/ES ▲
30	TQB0E0218	INSTRUCTION BOOK(ENGLISH)	1	PAVCCZ BK/BS ▲
31	TSXL446	CABLE(D32-C21/D31-C11)	2	
32	TSXL471	CABLE(D34-C41/D33-C31)	2	
33	TTUA1238	REAR COVER	1	PAVCCZ EK ▲
33	TTUA1239	REAR COVER	1	PAVCCZ ES ▲
33	TTUA1240	REAR COVER	1	PAVCCZ BK ▲
33	TTUA1241	REAR COVER	1	PAVCCZ BS ▲
34	TXFKE010YQS	ESCUTCHEON ASS'Y	1	PAVCCZ EK/BK
34	TXFKE010YRS	ESCUTCHEON ASS'Y	1	PAVCCZ ES/BS
35	TXFMZ010VASA	STAND POLE BRACKET	1	
36	TXFMZ010YLS	STAND BLOCK ASS'Y(L)	1	
	TXJ/SP0YNS	SPEAKER LEAD(LEFT)	2	PAVCCZ
	XTB4+10JFJ	SCREW(VESA BRACKET)ROHS	19	
	XTBT964J	SCREW	2	
	XTV3+10GFJ	SCREW	3	
	XTV3+10JFJ	SCREW	2	ES/BK
	XTW3+8TFJ	SCREW	3	
	XTW4+35DFJ	SCREW	10	EK/ES/BK
	XYC3+FF8FJ	SCREW	6	
	XYC4+FJ35FJK	SCREW	8	
	XYN3+F10FJ	SCREW	2	
	XYN3+F8FJ	SCREW	3	
	XYN3+J12FJ	SCREW	33	
	XYN4+E8FJ	SCREW(EARTH)	1	
	XYN5+C15FJ	SCREW	6	
	XYN8+F20FJK	SCREW	4	
	XZBT6530	POLY BAG	1	

18 Replacement Parts List

18.1. Replacement Parts List Notes

Important Safety Notice

Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.

After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention.

After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

Type

Allowance

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V

Type

Allowance

Type	Allowance
C : Carbon	F : $\pm 1\%$
F : Fuse	G : $\pm 2\%$
M : Metal Oxide	J : $\pm 5\%$
Metal Film	K : $\pm 10\%$
S : Solid	M : $\pm 20\%$
W : Wire Wound	

Type	Allowance
C : Ceramic	C : $\pm 0.25\text{pF}$
E : Electrolytic	D : $\pm 0.5\text{pF}$
P : Polyester	F : $\pm 1\text{pF}$
Polypropylene	G : $\pm 3\text{pF}$
T : Tantalum	J : $\pm 5\text{pF}$
	K : $\pm 10\text{pF}$
	L : $\pm 15\text{pF}$
	M : $\pm 20\text{pF}$
	P : $+100\%, -0\%$
	Z : $+80\%, -20\%$

18.2. Electrical Replacement Parts List

Note:

All parts except parts mentioned [PAVCCZ] in the Remarks column are supplied by AVC-SPC.

Parts mentioned [PAVCCZ] are supplied by PAVCCZ.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
F601, 60 2	K5D103BMA001	TIME LAG FUSE HIGH	2	⚠
F603	K5D102BNA007	TIME LAG FUSE HIGH	1	⚠
A601, 02	RA362MSV7T	ARRESTOR	2	⚠
C11	K1MN55BA0076	55P CONNECTOR	1	
C12	K1KA04BA0107	4P CONNECTOR	1	
C21	K1MN55BA0076	55P CONNECTOR	1	
C22	K1KA04BA0107	4P CONNECTOR	1	
C24	K1KA04AA0150	4P CONNECTOR	1	
C31	K1MN55BA0076	55P CONNECTOR	1	
C32	K1KA12AA0153	12P CONNECTOR	1	
C33	K1KA04BA0107	4P CONNECTOR	1	
C41	K1MN55BA0076	55P CONNECTOR	1	
C43	K1KA04BA0107	4P CONNECTOR	1	
C303	KZE1E470P	ELECTROLYTIC CAPACITOR	1	
C305	ECJ2XC1H101J	C 100PF, J, 50V	1	
C307	TBB224K5	CERAMIC CHIP CAPACITOR	1	
C332	KZE1E470	ELECTROLYTIC CAPACITOR	1	
C335	TEB104K5	CERAMIC CHIP CAPACITOR	1	
C341	RR3AD332K	CERAMIC CAPACITOR	1	
C352	TCR474K2A	CERAMIC CHIP CAPACITOR	1	
C354	TEB104K5	CERAMIC CHIP CAPACITOR	1	
C355	TCR474K2A	CERAMIC CHIP CAPACITOR	1	
C356	TAB473K2E	CERAMIC CHIP CAPACITOR	1	
C359	KZE1E470	ELECTROLYTIC CAPACITOR	1	
C360, 61	KMQ220901Z	ELECTROLYTIC CAPACITOR	2	
C363	RR3DD221K	CERAMIC CAPACITOR	1	
C366, 67	KZE2A331L	ELECTROLYTIC CAPACITOR	2	
C369	TAB473K2E	CERAMIC CHIP CAPACITOR	1	
C374	RR3DD221K	CERAMIC CAPACITOR	1	
C401	KZE1E470	ELECTROLYTIC CAPACITOR	1	
C410	ECWH8183HVB	PLASTIC FILM CAPACITOR	1	
C411	ECJ3YB1E475K	C 4.7UF, K, 25V	1	
C412	TBB105K1	CERAMIC CHIP CAPACITOR	1	
C451	KZE1E272	ELECTROLYTIC CAPACITOR	1	
C452	KZE1E821L	ELECTROLYTIC CAPACITOR	1	
C454, 55	ECJ3YB1E475K	C 4.7UF, K, 25V	2	
C457	KZE1E821L	ELECTROLYTIC CAPACITOR	1	
C458	ECJ3YB1E475K	C 4.7UF, K, 25V	1	
C459	KZE1E821L	ELECTROLYTIC CAPACITOR	1	
C460	ECJ2FB1H104K	C 0.1UF, K, 50V	1	
C461	KZE1E471L	ELECTROLYTIC CAPACITOR	1	
C462	ECJ2FB1H104K	C 0.1UF, K, 50V	1	
C463	KZE1E101	ELECTROLYTIC CAPACITOR	1	
C464	ECJ2FB1H104K	C 0.1UF, K, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C465	KZE1E101	ELECTROLYTIC CAPACITOR	1	
C466-69	ECJ2FB1H104K	C 0.1UF, K, 50V	4	
C471	ECJ2FB1H104K	C 0.1UF, K, 50V	1	
C472	KZE1E470	ELECTROLYTIC CAPACITOR	1	
C501	KMQ2W161K	ELECTROLYTIC CAPACITOR	1	
C502	ECJ2FB1H104K	C 0.1UF, K, 50V	1	
C503	TBB106K1A	CERAMIC CHIP CAPACITOR	1	
C507	KZE1E101	ELECTROLYTIC CAPACITOR	1	
C512	KZE1E101	ELECTROLYTIC CAPACITOR	1	
C515	TBB106K1A	CERAMIC CHIP CAPACITOR	1	
C551	KZE1E471L	ELECTROLYTIC CAPACITOR	1	
C553	TBB475K1	CERAMIC CHIP CAPACITOR	1	
C555	KZE1E101	ELECTROLYTIC CAPACITOR	1	
C556	KZE1A471	ELECTROLYTIC CAPACITOR	1	
C557, 58	ECJ2FB1H104K	C 0.1UF, K, 50V	2	
C559	CD221K	CERAMIC CAPACITOR	1	⚠
C560	ECJ2FB1H104K	C 0.1UF, K, 50V	1	
C562	ECJ2FB1H104K	C 0.1UF, K, 50V	1	
C563	TBB475K1	CERAMIC CHIP CAPACITOR	1	
C601	ECQU2A105ML	PLASTIC FILM CAPACITOR	1	⚠
C603, 04	CD221K	CERAMIC CAPACITOR	2	
C610, 11	MMXC2W105K	PLASTIC FILM CAPACITOR	2	
C620, 21	ECKD3A102KBP	C 1000PF, K, 1KV	2	
C622	ECQE6104KF	P 0.1UF, K, 630V	1	
C623, 24	KMQ2W161K	ELECTROLYTIC CAPACITOR	2	
C625	TBB474K2	CERAMIC CHIP CAPACITOR	1	
C626	KMQ2W161K	ELECTROLYTIC CAPACITOR	1	
C627	ECQE6472B45	PLASTIC FILM CAPACITOR	1	
C628	CD331K	CERAMIC CAPACITOR	1	⚠
C629	KZE1E470	ELECTROLYTIC CAPACITOR	1	
C630	ECQU2A473MN	P 0.047UF, M, 250V	1	⚠
C633	ECUX1H102KBN	C 1000PF, K, 50V	1	
C634	ECJ2FB1E224K	C 22UF, K, 25V	1	
C701	TBB475K1	CERAMIC CHIP CAPACITOR	1	
C703	TEB104K5	CERAMIC CHIP CAPACITOR	1	
C706	ECQV1H104JL	P 0.1UF, J, 50V	1	
C711	TEB104K2	CERAMIC CHIP CAPACITOR	1	
C801, 02	EEVHB1C471	E 470UF, 16V	2	
C804	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C805	ECJ1VB1C105K	C 0.01UF, K, 16V	1	
C806	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C807	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C808	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C809	ECJ3YB1C225K	C 0.022UF, K, 16V	1	
C811, 12	EEVHB1C471	E 470UF, 16V	2	
C814	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C815	ECJ1VB1C105K	C 0.01UF, K, 16V	1	
C816	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C817	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C818	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C819	ECJ3YB1C225K	C 0.022UF, K, 16V	1	
C820	ECJ2XC1H820J	C 82PF, J, 50V	1	
C821	F2H0J102A010	C 1000UF, 6.3V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9628	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9630-32	F1J0J1060004	C 0.010UF, K, 16V	3	
C9634,35	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9637-42	ECJ3XF1C475Z	C 4.7UF, Z, 16V	6	
C9643,44	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9645	ECJ1VB1C105K	C 0.01UF, K, 16V	1	
C9646	ECJ1VB1C103K	C 0.010UF, K, 16V	1	
C9647,48	ECJ1VC1H080D	C 8PF, 50V	2	
C9650,51	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C9652	ECJ1XC1H150J	C 15PF, J, 50V	1	
C9653	ECJ1VC1H080C	C 8PF, C, 50V	1	
C9654	F1J0J1060004	C 0.010UF, K, 16V	1	
C9662-701	ECJ1XF1C104Z	C 0.1UF, Z, 16V	40	
C9702	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9703-07	ECJ1XF1C104Z	C 0.1UF, Z, 16V	5	
C9708-11	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C9712	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C9713	ECJ1XF1H102Z	C 1000PF, Z, 50V	1	
C9715-17	TCUY1C105ZFN	C 1UF, 16V	3	
C9718,19	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9721-23	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9724	ECJ1VC1H270J	C 27PF, J, 50V	1	
C9725	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9726	ECJ1XF1H102Z	C 1000PF, Z, 50V	1	
C9733	ECJ2FF1C475Z	C 0.047UF, Z, 16V	1	
C9734	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9735	ECJ2FF1C475Z	C 0.047UF, Z, 16V	1	
C9736,37	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9738	ECJ1XC1H101J	C 100PF, J, 50V	1	
C9739-41	ECJ1XB1C104K	C 0.1UF, Z, 16V	3	
C9742	EEEHB0G221P	C 220PF, J, 4V	1	
C9743-46	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C9747	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9748-61	ECJ1XB1C104K	C 0.1UF, Z, 16V	14	
C9762	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9763	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9764	EEEHB0G221P	C 220PF, J, 4V	1	
C9779	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9780	F2H1E221A007	E 2.2UF, 25V	1	
C9781-83	F1J0J106A013	C 0.010UF, K, 16V	3	
C9784	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9785	F1J0J106A013	C 0.010UF, K, 16V	1	
C9981	EEEHB1C470P	C 47PF, J, 16V	1	
C9982	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9983	EEEHB0G221P	C 220PF, J, 4V	1	
C9984	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9985	F1J0J106A013	C 0.010UF, K, 16V	1	
C9986	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9988	F1J0J106A013	C 0.010UF, K, 16V	1	
C9989	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9991	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9992	EEEHB1C470P	C 47PF, J, 16V	1	
C9993	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9994	F1J0J106A013	C 0.010UF, K, 16V	1	
CA1-A8	K1MN68BA0002	68P CONNECTOR	8	
CB1-B8	K1MN68BA0002	68P CONNECTOR	8	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
CNPFC	B2P3-VH-B	CONNECTOR	1	
D1	K1KA20AA0335	20P CONNECTOR	1	
D3	K1KA40AA0009	40P CONNECTOR	1	
D4	K1KA14A00248	14P CONNECTOR	1	
D5	K1KA31A0007	31P CONNECTOR	1	
D10	K1KA12AA0105	12P CONNECTOR	1	
D20	K1KA20AA0008	20P CONNECTOR	1	
D25	K1KA20AA0009	20P CONNECTOR	1	
D31,32	K1MN55BA0076	55P CONNECTOR	2	
D33,34	K1MN55BA0094	55P CONNECTOR	2	
D302	RU1P	DIODE	1	
D303	RB550VA-30	DIODE	1	
D305,06	ST3D170	CLAMPER	2	
D307	RB550VA-30	DIODE	1	
D308	ERA91-02	DIODE	1	
D332	RB550VA-30	DIODE	1	
D335	RU1P	DIODE	1	
D351	FCF06A40	DIODE	1	
D374	MA2C16500H	DIODE	1	
D401	RB550VA-30	DIODE	1	
D402	M1FS6	DIODE	1	
D403	M1FS6	DIODE	1	
D405	M1FS6	DIODE	1	
D451-54	RB085T60	DIODE	4	
D455	M1FS6	DIODE	1	
D456,57	MA111	DIODE	2	
D501	ST3D200	CLAMPER	1	
D504	ERA91-02	DIODE	1	
D511	ERA91-02	DIODE	1	
D511	MA2S111	DIODE	1	
D515	ERA91-02	DIODE	1	
D516	MA2S111	DIODE	1	
D551	RK49	DIODE	1	
D601	MA111	DIODE	1	
D602	S1WBA80	DIODE	1	▲
D603	MA111	DIODE	1	
D605	M1F60	DIODE	1	
D607	S3V60	DIODE	1	
D608,09	RB550VA-30	DIODE	2	
D612	EP01C	DIODE	1	
D613,14	ERA22-10	DIODE	2	
D796	MA2S111	DIODE	1	
D801	B0JCPD000026	DIODE	1	
D802,03	B0JCME000037	DIODE	2	
D850	MA165	DIODE	1	
D852	MA2C165001VT	DIODE	1	
D854	MA165	DIODE	1	
D859	AK04	DIODE	1	
D1550	LNJ107W5PRW	LED	1	
D1551	MA8033L	ZENER DIODE	1	
D1554	MA8033L	ZENER DIODE	1	
D2301-03	B0JCME000037	DIODE	3	
D3001	MA111	DIODE	1	(J)
D3001	MA729	DIODE	1	(HB)
D3002	MA3100M	ZENER DIODE	1	
D3003,04	MA111	DIODE	2	
D3005	LNJ206R5ARA	LED	1	
D3007,08	MA111	DIODE	2	
D3061	MA728	DIODE	1	
D3501-04	MA3056M	ZENER DIODE	4	
D3507-10	MA8160H	ZENER DIODE	4	
D6013	B0HBSN000008	DIODE	1	
D6018	B0HBSN000008	DIODE	1	
D6101	B0HBSN000008	DIODE	1	
D6110	B0ECHP000003	DIODE	1	
D6111,12	B0HBSN000008	DIODE	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D6115,1 6	B0HBSN000008	DIODE	2	
D6119	B0ECHP000003	DIODE	1	
D6121	B0HBSN000008	DIODE	1	
D6122	B0ECHP000003	DIODE	1	
D6128,2 9	B0HBSN000008	DIODE	2	
D6140,4 1	B0ECHP000003	DIODE	2	
D6149,5 0	B0JCME000037	DIODE	2	
D6151	B0ECHP000003	DIODE	1	
D6153	B0ECHP000003	DIODE	1	
D6158,5 9	MA8330M	ZENER DIODE	2	
D6160	LNJ301MPUJA	LED	1	
D6161	MA8051L	ZENER DIODE	1	
D6162	MA111	DIODE	1	
D6166	MA111	DIODE	1	
D6172	MA111	DIODE	1	
D6173	B0ECHP000003	DIODE	1	
D6195	B0ECHP000003	DIODE	1	
D6433	MA111	DIODE	1	
D6435	MA111	DIODE	1	
D6436	B0JCKG000002	DIODE	1	
D6451	B0ECHP000003	DIODE	1	
D6452	B0HCKS000002	DIODE	1	
D6453,5 4	B0ECHP000003	DIODE	2	
D6455	MA111	DIODE	1	
D6456	B0ECHP000003	DIODE	1	
D6457	B0HCKS000002	DIODE	1	
D6458	B0ECHP000003	DIODE	1	
D6459	MA111	DIODE	1	
D6460,6 1	B0HCKS000002	DIODE	2	
D6465,6 6	MA8330M	ZENER DIODE	2	
D6468	MA111	DIODE	1	
D6470,7 1	MA111	DIODE	2	
D6472	B0JCME000037	DIODE	1	
D6473	MA111	DIODE	1	
D6475	MA111	DIODE	1	
D6476	B0ECHP000003	DIODE	1	
D6477	MA111	DIODE	1	
D6478	B0HCKS000002	DIODE	1	
D6479	MA111	DIODE	1	
D6481,8 2	MA8200M	ZENER DIODE	2	
D6483	B0JCME000037	DIODE	1	
D6484	MA111	DIODE	1	
D6485- 90	MA8056H	ZENER DIODE	6	
D6491,9 2	B0ECHP000003	DIODE	2	
D6493,9 4	MA8056H	ZENER DIODE	2	
D6495	B0HCKS000002	DIODE	1	
D6499	B0JCME000037	DIODE	1	
D6500,0 1	MA111	DIODE	2	
D6506	MA111	DIODE	1	
D6509	MA111	DIODE	1	
D6510	B0JCME000037	DIODE	1	
D6511	B0HCMM000014	DIODE	1	
D6512- 14	MA111	DIODE	3	
D6515	MA8240M	ZENER DIODE	1	
D6517,1 8	B0JCME000037	DIODE	2	
D6520	MA111	DIODE	1	
D6521	B0ECHP000003	DIODE	1	
D6522	MA111	DIODE	1	
D6523	B0ECHP000003	DIODE	1	
D6524	MA8051L	ZENER DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D6525	MA111	DIODE	1	
D6526	B0HCMM000014	DIODE	1	
D6528	B0ECHP000003	DIODE	1	
D6541	B0HCKS000002	DIODE	1	
D6542	MA111	DIODE	1	
D6543	B0HCKS000002	DIODE	1	
D6544	MA111	DIODE	1	
D6545	MA8051L	ZENER DIODE	1	
D6546- 48	MA8330M	ZENER DIODE	3	
D6549,5 0	MA111	DIODE	2	
D6551	B0HCKS000002	DIODE	1	
D6552	B0JCME000037	DIODE	1	
D6553	MA111	DIODE	1	
D6555	MA8056H	ZENER DIODE	1	
D6556,5 7	MA111	DIODE	2	
D6570	B0HCMM000014	DIODE	1	
D6572	B0ECHP000003	DIODE	1	
D6582	MA8051L	ZENER DIODE	1	
D6583	LNJ301MPUJA	LED	1	
D6584	MA111	DIODE	1	
D6585,8 6	MA8330M	ZENER DIODE	2	
D6587	MA8056H	ZENER DIODE	1	
D6600	B0ECHP000003	DIODE	1	
D6602	B0ECHP000003	DIODE	1	
D6604	B0HBSN000008	DIODE	1	
D6608,0 9	B0HBSN000008	DIODE	2	
D6614	B0HBSN000008	DIODE	1	
D6619,2 0	B0HBSN000008	DIODE	2	
D6623,2 4	B0HBSN000008	DIODE	2	
D6625	B0ECHP000003	DIODE	1	
D6627	B0HBSN000008	DIODE	1	
D6650	B0HBSN000008	DIODE	1	
D6651	B0ECHP000003	DIODE	1	
D6661,6 2	B0ECHP000003	DIODE	2	
D6901,0 2	MA8056H	ZENER DIODE	2	
D6903,0 4	B0ECHP000003	DIODE	2	
D6961,6 2	MA8056H	ZENER DIODE	2	
D6963,6 4	B0ECHP000003	DIODE	2	
D7101- 08	B0HCMM000014	DIODE	8	
D7201- 08	B0HCMM000014	DIODE	8	
D7301- 08	B0HCMM000014	DIODE	8	
D7401- 08	B0HCMM000014	DIODE	8	
D8001	MA111	DIODE	1	
D8003	MA111	DIODE	1	
D8010,1 1	MA153	DIODE	2	
D8180	MA111	DIODE	1	
D8181	MA8056-M	ZENER DIODE	1	
D8184,8 5	MA8056-M	ZENER DIODE	2	
D8200	MA3150M	ZENER DIODE	1	
D8201	MA111	DIODE	1	
D8203	MA3100M	ZENER DIODE	1	
D8204	MA111	DIODE	1	
D9300- 03	MA152K	DIODE	4	
D9500,0 1	B0JCDD000002	DIODE	2	
D9502,0 3	B0JCPE000004	DIODE	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D9702-05	MA3033	ZENER DIODE	4	
D9707	MA728	DIODE	1	
D9711-13	MA152K	DIODE	3	
D9715	MA728	DIODE	1	
D9721	MA3036H	ZENER DIODE	1	
D9731	MA728	DIODE	1	
D9732-35	MA152K	DIODE	4	
FL3000-03	F1J1E1040022	LC FILTER	4	
FL3006-10	F1J1E1040022	LC FILTER	5	
FL3507-09	J0HABB000004	LC FILTER	3	
FL3510-17	TLK212T256AL	EMI FILTER	8	
FL7101	J0HABH000013	LC FILTER	1	
FL7201	J0HABH000013	LC FILTER	1	
FL7301	J0HABH000013	LC FILTER	1	
FL7401	J0HABH000013	LC FILTER	1	
FL9001	J0MAB0000175	LC FILTER	1	
FL9300-05	F1J1E1040022	LC FILTER	6	
FL9500	F1J1E1040022	LC FILTER	1	
FL9502-04	F1J1E1040022	LC FILTER	3	
FL9701-09	F1J1E1040022	LC FILTER	9	
H0	K1KA08AA0150	8P CONNECTOR	1	
H1	K1KA80B00037	80P CONNECTOR	1	
H37	K1KA03AA0190	3P CONNECTOR	1	
HX1	K1KB22A00036	22P CONNECTOR	1	
IC301	MR4020F2	INTEGRATED CIRCUIT	1	
IC401	F9222L	INTEGRATED CIRCUIT	1	▲
IC501	MIP3E30MP	INTEGRATED CIRCUIT	1	
IC801-03	C0DBAMH00013	IC	3	
IC804	C0CBCAC00275	IC	1	
IC850	C0DAAZG00014	IC	1	
IC2301, 02	C1BA00000383	IC	2	
IC2303	C1BB00001006	IC	1	
IC2305	C0ABBA000168	IC	1	
IC3001	C0JBAZ000419	IC	1	(HB)
IC3001	MC14052BF	MOS IC (CMOS GATE ARRLY)	1	(J)
IC3002	C0ABGB000001	IC	1	(HB)
IC3002	C0JBBR000002	IC	1	(J)
IC3003	C0ABGB000001	IC	1	(HB)
IC3003	CXA1315M	LINEAR IC	1	(J)
IC3004	CXA1875AM	LINEAR IC	1	
IC3005	C1AB00002311	IC	1	
IC3007, 08	C0JBAS000215	IC	2	
IC3101	C1AB00002238	IC	1	(J)
IC3101	C0DBEZG00018	IC	1	(HB)
IC3102	C0DBZLB00003	IC	1	
IC3103	C1AB00002158	IC	1	
IC3104	PST9128NR	IC (LOGIC)	1	
IC3105	C0JBAZ002269	IC	1	
IC3150	C0JBA000419	IC	1	
IC3201	C3HBKZ000002	IC	1	
IC3251	C0ZBZ0000967	IC	1	
IC3301	MM1065ZMR	LINEAR IC	1	
IC3302	C0DBEZG00018	IC	1	
IC3303	AN80L25RMS	IC	1	
IC3304	C0JBAZ002344	IC	1	
IC3305	JLC1562BF	MOS IC (MICON LSI) *	1	
IC3502	TVRN650	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC3699	C3EBGC000065	IC	1	
IC6101-04	C0ZBZ0000895	IC	4	
IC6106	C0JBAZ00005	IC	1	
IC6107	NJM2903M	INTEGRATED CIRCUIT	1	
IC6109	C0DBEMB00005	LINEAR IC	1	
IC6431	C0DBEMB00005	LINEAR IC	1	
IC6451	C0CBALC00015	IC	1	
IC6452	C0DBEMB00005	LINEAR IC	1	
IC6453	C0CBALC00015	IC	1	
IC6454, 55	C0CBADC00089	IC	2	
IC6471, 72	C0DBEMB00005	LINEAR IC	2	
IC6491	C0DBEMB00005	LINEAR IC	1	
IC6500	C0JBAZ000994	IC	1	
IC6509	C0JBAZ000994	IC	1	
IC6511	C0ZBZ0001033	IC	1	
IC6512	C0CBADC00089	IC	1	
IC6521	C0ZBZ0001033	IC	1	
IC6541, 42	C0ZBZ0001033	IC	2	
IC6543	C0CBADC00089	IC	1	
IC6544	C0ZBZ0001033	IC	1	
IC6581	NJM2903M	INTEGRATED CIRCUIT	1	
IC6601-03	C0ZBZ0000895	IC	3	
IC6604	C0JBAZ000174	IC	1	
IC6605, 06	C0JBAZ000005	IC	2	
IC6901-06	AN16042A-VT	IC	6	
IC6957-62	AN16042A-VT	IC	6	
IC7101-04	C0JBAZ001120	IC	4	
IC7201-04	C0JBAZ001120	IC	4	
IC7301-04	C0JBAZ001120	IC	4	
IC7401-04	C0JBAZ001120	IC	4	
IC8001	MC14052BF	MOS IC (CMOS GATE ARRLY)	1	
IC8003	C1AA00000706	IC	1	
IC8005	C0JBAB000646	IC	1	
IC8007	C0JBAR000419	IC	1	
IC8009	C0JBA000215	IC	1	
IC8014	C0ZBZ0000911	IC	1	
IC8016	C0JBAZ001934	IC	1	
IC8100	C0CBAKG00008	IC	1	
IC8181	C1DB00001208	IC	1	
IC9001	C0FBAD000102	IC	1	
IC9002	C0CBCBC00190	IC	1	
IC9031	C0JBAZ002198	IC	1	
IC9101	C0ZBZ0000764	IC	1	
IC9102	C0JBAZ002198	IC	1	
IC9103	C0JBAE000354	IC	1	
IC9151, 52	C0JBAZ000856	IC	2	
IC9201	C1ZBZ0002917	IC	1	
IC9202	C0EBD0000038	IC	1	
IC9203	TVRN629	IC	1	
IC9301	C3ABQJ000042	IC	1	
IC9302	MN845121-A		1	
IC9303	TVRN706	IC	1	PAVCCZ
IC9304-06	C0JBAZ000856	IC	3	
IC9501	MN845111-A		1	
IC9502	C1ZBZ0002769	IC	1	
IC9504	C3ABQJ000042	OR C3ABQJ000031	1	
IC9506	C0DBAHE00017	IC	1	
IC9605	PST9128NR	IC (LOGIC)	1	
IC9607, 08	C0DBEJG00001	IC	2	
IC9701	MN102H90MPD	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC9702	TVRN501-1	IC	1	PAVCCZ
IC9703	TVRN639	IC	1	
IC9703	TVRN639	IC	1	PAVCCZ
IC9704	C0EBE000447	IC	1	
IC9711	C0JBAE000354	IC	1	
IC9713	C0JBAS000215	IC	1	
IC9714	C0JBAZ000856	IC	1	
IC9715	C0JBAE000354	IC	1	
IC9953	C0DBEJG00001	IC	1	
IC9954	C0DBEGE00002	IC	1	
J1	K1KA20AA0335	20P CONNECTOR	1	
J2	K1KA06BA0047	6P CONNECTOR	1	
J3	K1KA40AA0009	40P CONNECTOR	1	
J4	K1KA11BA0051	11P CONNECTOR	1	
J5	K1KA21B00008	21P CONNECTOR	1	
J6	K1KA21B00009	21P CONNECTOR	1	
J7, J8	K1KA03BA0055	3P CONNECTOR	2	
J10	K1KA06BA0050	6P CONNECTOR	1	
J11-13	K1KB80B00024	80P CONNECTOR	3	
J14	K1KA22A00067	22P CONNECTOR	1	
J15	K1KA03BA0047	3P CONNECTOR	1	
JK3001	K1CB106B0027	CONNECTOR	1	
JK3002	K1QBB2AB0005	CONNECTOR	1	
JK3004	K2HA204B0097	JACK	1	
JK3509	K1FB109BA018	CONNECTOR	1	
JK3511	K1FB115BA020	CONNECTOR	1	
JK3513	K2HC103B0105	JACK	1	
JK8500	K4BC02B00013	TERMINAL	1	
JS801-16	ERJ6GEY0R00	M 0 OHM, 1/10W	16	
JS3301-06	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
JS3308-10	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
JS6001-02	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
JS6100	ERD25V0T	M OHM, 1/10W	1	
JS6534	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS6649	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS8094-97	J0JCC0000100	CHIP INDUCTOR	4	
K601	DG12D1-0	RELAY	1	▲
K602	DJ12D2-0	RELAY	1	▲
L301,02	EXCELSR35	FERRITE BEAD INDUCTOR	2	
L401,02	EXCELSA35	BEAD CHOKE	2	
L452	EXCELDR35	FERRITE BEAD INDUCTOR	1	
L454,55	EXCELDR35	FERRITE BEAD INDUCTOR	2	
L501	EXCELSA35	BEAD CHOKE	1	
L503	EXCELDR35	FERRITE BEAD INDUCTOR	1	
L601,02	P2570205Z	FILTER CHOKE	2	▲
L604	S3783106Z	CHOKE	1	
L606	ELF15N004A	FILTER CHOKE	1	▲
L607,08	EXCELDR35	FERRITE BEAD INDUCTOR	2	
L612	EXCELDR35	FERRITE BEAD INDUCTOR	1	
L614	EXCELDR35	FERRITE BEAD INDUCTOR	1	
L801	G1C470MA0078	INDUCTOR COIL	1	
L802	G1C101MA0078	INDUCTION COIL	1	
L803	G1C220MA0078	INDUCTION COIL	1	
L804-11	J0JHC0000078	CHIP INDUCTOR	8	
L851	G0A680ZA0047	CHOKE COIL	1	
L1501-08	J0JHC0000078	CHIP INDUCTOR	8	
L2330,1	G0A221ZA0041	CHOKE COIL	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L3001	J0HABB000003	LC FILTER	1	(HB)
L3001	J0HABB000004	LC FILTER	1	(J)
L3002	G1C100K00020	INDUCTION COIL	1	(J)
L3002	J0HABB000004	LC FILTER	1	(HB)
L3003	G1C100K00020	INDUCTION COIL	1	(J)
L3003	J0HABB000004	LC FILTER	1	(HB)
L3005	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HB)
L3005	G1C100K00020	INDUCTION COIL	1	(J)
L3006	G1C100K00020	INDUCTION COIL	1	(J)
L3006	J0E8004B0008	LC FILTER	1	(HB)
L3007	G1C2R2K00006	INDUCTION COIL	1	
L3050	G1C100K00020	INDUCTION COIL	1	
L3051,2	ELJNA1R5JF	INDUCTION COIL	2	
L3102-04	ELJPA100KB	CHIP INDUCTOR	3	
L3140	J0JHC0000078	CHIP INDUCTOR	1	
L3201	ELJPA100KB	CHIP INDUCTOR	1	
L3251,2	ELJPA2R2MF	CHIP INDUCTOR	2	
L3305-08	ELKE103FA	NOISE FILTER	4	
L3526	ELJPA100KB	CHIP INDUCTOR	1	
L3555	ELJPA100KB	CHIP INDUCTOR	1	
L6101-03	G0AR60MA0003	CHOKE COIL	3	
L6104-06	G0A1R4MA0003	CHOKE COIL	3	
L6107,8	J0JJC0000021	CHIP INDUCTOR	2	
L6113	G0ZZ00002183	PEAKING COIL	1	
L6114	G0C101K00023	PEAKING COIL	1	
L6115-17	G0ZZ00002183	PEAKING COIL	3	
L6119,20	G0ZZ00002183	PEAKING COIL	2	
L6122	G0ZZ00002183	PEAKING COIL	1	
L6124	G0ZZ00002183	PEAKING COIL	1	
L6130	G0ZZ00002183	PEAKING COIL	1	
L6132	G0ZZ00002183	PEAKING COIL	1	
L6134	G0ZZ00002183	PEAKING COIL	1	
L6136	G0ZZ00002183	PEAKING COIL	1	
L6152-57	G0ZZ00002183	PEAKING COIL	6	
L6158,9	J0JJC0000021	CHIP INDUCTOR	2	
L6161,6	J0JJC0000011	CHIP INDUCTOR	2	
L6431	J0JJC0000021	CHIP INDUCTOR	1	
L6451	J0JJC0000021	CHIP INDUCTOR	1	
L6471	J0JJC0000021	CHIP INDUCTOR	1	
L6472,3	G0ZZ00002183	PEAKING COIL	2	
L6603,4	G0ZZ00002183	PEAKING COIL	2	
L6607	J0JJC0000021	CHIP INDUCTOR	1	
L6609	G0ZZ00002183	PEAKING COIL	1	
L6611-13	G0AR60MA0003	CHOKE COIL	3	
L6615-17	G0A1R4MA0003	CHOKE COIL	3	
L6618	G0ZZ00002183	PEAKING COIL	1	
L6621,2	G0ZZ00002183	PEAKING COIL	2	
L6625	G0ZZ00002183	PEAKING COIL	1	
L6631,2	G0ZZ00002183	PEAKING COIL	2	
L6635,3	G0ZZ00002183	PEAKING COIL	2	
L6644,4	G0ZZ00002183	PEAKING COIL	2	
L6647,8	G0ZZ00002183	PEAKING COIL	2	
L6650,5	G0ZZ00002183	PEAKING COIL	2	
L6661,6	J0JJC0000011	CHIP INDUCTOR	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L8001	G1C100K00020	INDUCTION COIL	1	
L8003	G1C100K00020	INDUCTION COIL	1	
L8005	G1C100K00020	INDUCTION COIL	1	
L8101-08	J0JHC0000078	CHIP INDUCTOR	8	
L8181	G1C100K00020	INDUCTION COIL	1	
L8501,02	G0A2R5H00003	CHOKE COIL	2	
L9204	ERJ6GEY0R00V	M 0 OHM, 1/10W	1	
L9205,06	J0JHC0000096	CHIP INDUCTOR	2	
L9401-03	J0JHC0000096	CHIP INDUCTOR	3	
L9500	G1C150MA0169	INDUCTION COIL	1	
L9501	G1A100ZA0007	CHOKE COIL	1	
L9502	G1C150KA0038	INDUCTION COIL	1	
L9601-04	J0JHC0000096	CHIP INDUCTOR	4	
MC301	MP44S1	MODULE	1	▲
MC303	IXMM564M-B-9	MODULE	1	▲
MC401	IXMM564M-F-9	MODULE	1	▲
MC501	IXMM564M-C-9	MODULE	1	▲
MC601	MP00P3	MODULE	1	▲
MC602	IXMM564M-G-9	MODULE	1	▲
MC603	IXMM564M-E-9	MODULE	1	▲
MC604	MP00P5	MODULE	1	▲
MC701	IXMM564M-D-9	MODULE	1	▲
P2	B6B-EH-A	CONNECTOR	1	
P5	B11B-PH-KS	CONNECTOR	1	
P9	B3P4VH-B-L	CONNECTOR	1	▲
P10	B6B-PH-KS	CONNECTOR	1	
P11	B7B-EH-A	CONNECTOR	1	
P12	B10B-PH-KS	CONNECTOR	1	
P23	B3B-PH-KS	CONNECTOR	1	
P25	B20B-PHDSS	CONNECTOR	1	
P30	B5B-PH-KS	CONNECTOR	1	
PB30	K1KA05AA0193	5P CONNECTOR	1	
PB31	K1KA03AA0192	3P CONNECTOR	1	
PB33	K1KA03AA0192	3P CONNECTOR	1	
PB35	K1KA03AA0192	3P CONNECTOR	1	
PC6434	B3PBA0000223	IC	1	
PC6458	B3PBA0000223	IC	1	
PC6467	B3PBA0000223	IC	1	
PC6469	B3PBA0000223	IC	1	
PC6474	B3PBA0000223	IC	1	
PC6480	B3PBA0000223	IC	1	
PC6501,02	B3PBA0000234	IC	2	
PC6503	B3PBA0000233	IC	1	
PC6505	B3PBA0000233	IC	1	
PC6507	B3PBA0000233	IC	1	
Q332	2SD2098	TRANSISTOR	1	
Q333	2SB1386RT100	TRANSISTOR	1	
Q402	2SB766A	TRANSISTOR	1	
Q451-53	HAT1130R	FIELD EFFECT TRANSISTOR	3	
Q551	HAT1130R	FIELD EFFECT TRANSISTOR	1	
Q553,54	HAT1130R	FIELD EFFECT TRANSISTOR	2	
Q555	2SB709A	TRANSISTOR	1	
Q601	2SK3302	FIELD EFFECT TRANSISTOR	1	▲
Q602	2SD2098	TRANSISTOR	1	
Q603	2SB1386	TRANSISTOR	1	
Q605	2SB709A	TRANSISTOR	1	
Q606	2SD601A	TRANSISTOR	1	
Q850	2SC3311A	TRANSISTOR	1	
Q1540	2SD601A	TRANSISTOR	1	
Q2300	B1BBCF000028	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q2331	B1BBCF000028	TRANSISTOR	1	
Q2333,34	2SD601A	TRANSISTOR	2	
Q2370,71	2SB709A	TRANSISTOR	2	
Q2372	2SD601A	TRANSISTOR	1	
Q3001	2SB709A	TRANSISTOR	1	(J)
Q3001	2SD601A	TRANSISTOR	1	(HB)
Q3002	2SD601A	TRANSISTOR	1	
Q3003	2SD601A	TRANSISTOR	1	(HB)
Q3003	2SD601A	TRANSISTOR	1	(J)
Q3004	2SD601A	TRANSISTOR	1	
Q3005	2SD601A	TRANSISTOR	1	
Q3006,7	2SB709A	TRANSISTOR	2	
Q3023	2SD601A	TRANSISTOR	1	
Q3051,52	2SD601A	TRANSISTOR	2	
Q3101	2SB709A	TRANSISTOR	1	(HB)
Q3101	2SD601A	TRANSISTOR	1	(J)
Q3102	2SD1030	TRANSISTOR	1	(HB)
Q3102,3	2SD601A	TRANSISTOR	2	(J)
Q3104	2SD1030	TRANSISTOR	1	
Q3531,32	2SD601A	TRANSISTOR	2	
Q6001	2SK3997000VE	FET	1	
Q6005	2SK3999000VH	FET	1	
Q6010,12	BLJADN000001	TRANSISTOR	3	
Q6101	B1ABNF000006	TRANSISTOR	1	
Q6102	B1ADNF000006	TRANSISTOR	1	
Q6115,17	B1JADN000001	TRANSISTOR	3	
Q6127,8	B1DFKM000002	TRANSISTOR	2	
Q6132	B1ABNF000006	TRANSISTOR	1	
Q6133	B1ADNF000006	TRANSISTOR	1	
Q6134	B1ABNF000006	TRANSISTOR	1	
Q6135	B1ADNF000006	TRANSISTOR	1	
Q6138	2SC1473A	TRANSISTOR	1	
Q6141	2SD601A	TRANSISTOR	1	
Q6144	B1ABNF000006	TRANSISTOR	1	
Q6145	B1ADNF000006	TRANSISTOR	1	
Q6431	B1BBCJ000004	TRANSISTOR	1	
Q6432	2SB0709A	TRANSISTOR	1	
Q6435	2SD601A	TRANSISTOR	1	
Q6451	2SD1263A	TRANSISTOR	1	
Q6455	2SD814A	TRANSISTOR	1	
Q6471	B1BAEJ000014	TRANSISTOR	1	
Q6472	2SB0709A	TRANSISTOR	1	
Q6474	2SD814A	TRANSISTOR	1	
Q6475,77	2SD601A	TRANSISTOR	3	
Q6491	2SD1263A	TRANSISTOR	1	
Q6492	2SC1473A	TRANSISTOR	1	
Q6501,05	2SK620	FET	5	
Q6511,2	B1DFFM000003	TRANSISTOR	2	
Q6520	2SD601A	TRANSISTOR	1	
Q6521	B1DFES000002	TRANSISTOR	1	
Q6523	B1ADNF000006	TRANSISTOR	1	
Q6524,5	B1ABNF000006	TRANSISTOR	2	
Q6526	B1ADNF000006	TRANSISTOR	1	
Q6530,40	B1DFHN000001	TRANSISTOR	11	
Q6551	2SD601A	TRANSISTOR	1	
Q6552	B1DEET000002	TRANSISTOR	1	
Q6554	2SD601A	TRANSISTOR	1	
Q6560,68	B1DFKM000002	TRANSISTOR	9	
Q6581	2SD601A	TRANSISTOR	1	
Q6582,3	B1DFET000001	TRANSISTOR	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3161	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	(J)
R3162	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R3163	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(J)
R3163	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	(HB)
R3164-67	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R3168	ERJ3EKF2000	M 200 OHM, 1/16W	1	
R3169-72	ERJ6ENF75R0	M 75 OHM, 1/10W	4	
R3173	ERJ3EKF2200	M 220 OHM, 1/16W	1	
R3174	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3177	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R3178	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R3179	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R3180	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R3181	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R3182	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R3183	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R3184	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R3185	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3188	ERJ6ENF39R0	M 39 OHM, 1/10W	1	
R3189	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HB)
R3189,90	ERJ6ENF39R0	M 39 OHM, 1/10W	2	(J)
R3192,93	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3194	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R3195,96	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3197,98	ERJ3GEYJ123	M 12KOHM,J,1/16W	2	
R3210,11	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3212-15	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	4	
R3216-19	ERJ6GEYJ3R3	M 3.3KOHM,J,1/10W	4	
R3230,31	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R3251	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R3252	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3253	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R3254,55	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R3300,01	ERJ3EKF1501	M 1.5KOHM, 1/16W	2	
R3302	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R3303,04	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R3305	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3307	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3308,09	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3313	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R3314,15	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3319	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R3337,38	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R3400	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3508,09	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R3510,11	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3529,30	ERJ6GEYJ184	M 180KOHM,J,1/10W	2	
R3547,48	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3585,86	ERJ6GEYJ560	M 56 OHM,J,1/10W	2	
R3589	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R3590	ERJ6GEYJ560	M 56 OHM,J,1/10W	1	
R3591-93	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R3653	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3654	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3655	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3656	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3663,64	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R3668	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3672	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3776,77	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3778	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R3790,91	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R6002,03	ERJ14YJ5R6U	M 6.20HM, 1/4W	2	
R6005,06	ERJ14YJ5R6U	M 6.20HM, 1/4W	2	
R6020-25	ERJ14YJ150U	M 15 OHM, J,1/4W	6	
R6081-83	ERJ6ENF8202	M 82KOHM, 1/10W	3	
R6100,01	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6102	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6106-11	ERJ14YJ150U	M 15 OHM, J,1/4W	6	
R6112	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6113	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6114,15	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6116	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6117-20	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
R6121,22	ERJ6GEYJ151	M 150 OHM,J,1/10W	2	
R6123	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6124-27	ERJ6GEYJ101	M 100 OHM,J,1/10W	4	
R6129	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6134	ERG2FJS221D	M 220 OHM, J, 2W	1	
R6135	ERG1FJS472D	M 4.7KOHM, J, 1W	1	
R6136	ERG2FJS123D	M 12KOHM, J, 2W	1	
R6140	ERJ6GEYJ203	M 20KOHM,J,1/10W	1	
R6141	ERJ6GEYJ243	M 24KOHM,J,1/10W	1	
R6142	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6144	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6145	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6147	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R6148,49	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6150	ERJ6GEYJ243	M 24KOHM,J,1/10W	1	
R6151	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6152,53	ERJ6ENF3902	M 39KOHM, 1/10W	2	
R6154	ERJ6ENF7501	M 7.5KOHM, 1/10W	1	
R6155,56	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	2	
R6157	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6158	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6159	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6160	EXB38V470J	RESISTOR ARRAY	1	
R6161	EXB38V472J	RESISTOR ARRAY	1	
R6162	EXB38V470J	RESISTOR ARRAY	1	
R6163	EXB38V472J	RESISTOR ARRAY	1	
R6164,65	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6166,67	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6171,72	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6175	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6176,77	ERX2FJSR22D	M0.22 OHM, J, 2W	2	
R6181	ERG2FJS221D	M 220 OHM, J, 2W	1	
R6183	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6187	ERX2FJSR22D	M0.22 OHM, J, 2W	1	
R6188	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6189	ERX2FJSR22D	M0.22 OHM, J, 2W	1	
R6191	ERX2FJSR22D	M0.22 OHM, J, 2W	1	
R6193	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7303	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7305-07	ERJ12YJ220	M 22 OHM,J, 1/2W	3	
R7308	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7309	ERJ12YJ220	M 22 OHM,J, 1/2W	1	
R7310	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7311	EXB38V470J	RESISTOR ARRAY	1	
R7312	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7314-17	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R7318	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R7319	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R7320	ERJ8GEY0R00	M 0 OHM, 1/8W	1	
R7321,2	EXB38V470J	RESISTOR ARRAY	2	
R7323	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7325-27	ERJ12YJ220	M 22 OHM,J, 1/2W	3	
R7328	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7329	ERJ12YJ220	M 22 OHM,J, 1/2W	1	
R7330	EXB38V470J	RESISTOR ARRAY	1	
R7331	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7332	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7339	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R7340	ERJ8GEY0R00	M 0 OHM, 1/8W	1	
R7341,42	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R7343	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7345-47	ERJ12YJ220	M 22 OHM,J, 1/2W	3	
R7348	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7349	ERJ12YJ220	M 22 OHM,J, 1/2W	1	
R7350-52	TAJAAH0470JV	M 47 OHM,J,1/16W	3	
R7354-57	TAJAAH0470JV	M 47 OHM,J,1/16W	4	
R7358,59	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7360	ERJ8GEY0R00	M 0 OHM, 1/8W	1	
R7363	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7365-67	ERJ12YJ220	M 22 OHM,J, 1/2W	3	
R7368	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7369	ERJ12YJ220	M 22 OHM,J, 1/2W	1	
R7370,71	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R7372	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7400	ERJ8GEY0R00	M 0 OHM, 1/8W	1	
R7401	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7403	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7405-07	ERJ12YJ220	M 22 OHM,J, 1/2W	3	
R7408	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7409	ERJ12YJ220	M 22 OHM,J, 1/2W	1	
R7410	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7412	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7414-17	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R7418	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R7419	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R7420	ERJ8GEY0R00	M 0 OHM, 1/8W	1	
R7423	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7425-27	ERJ12YJ220	M 22 OHM,J, 1/2W	3	
R7428	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7429	ERJ12YJ220	M 22 OHM,J, 1/2W	1	
R7430	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R7432	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7434-39	EXB38V470J	RESISTOR ARRAY	6	
R7440	ERJ8GEY0R00	M 0 OHM, 1/8W	1	
R7441	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7443	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7445-47	ERJ12YJ220	M 22 OHM,J, 1/2W	3	
R7448	ERJ6GEY0R00	M 0 OHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7449	ERJ12YJ220	M 22 OHM,J, 1/2W	1	
R7452	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7460	ERJ8GEY0R00	M 0 OHM, 1/8W	1	
R7463	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7465-67	ERJ12YJ220	M 22 OHM,J, 1/2W	3	
R7468	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7469	ERJ12YJ220	M 22 OHM,J, 1/2W	1	
R7470,71	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R7472	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7483-88	TAJAAH0470JV	M 47 OHM,J,1/16W	6	
R7489,90	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R8001-04	J0JCC0000100	CHIP INDUCTOR	4	
R8009-12	ERJ3GEYJ271	M 270 OHM,J,1/16W	8	
R8017,18	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R8021	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R8025	J0JCC0000100	CHIP INDUCTOR	1	
R8026	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R8029	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R8031	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R8033	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R8035	ERJ6ENF3300	M 330 OHM, 1/10W	1	
R8036	ERJ6ENF1500	M 150 OHM, 1/10W	1	
R8037	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	
R8039	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	
R8041	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R8045,46	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	2	
R8047	ERJ3GEYJ271	M 270 OHM,J,1/16W	1	
R8048	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R8050,51	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	2	
R8055,56	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R8057	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R8058,59	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R8065	D0GB911JA002	M 910 OHM,J,1/16W	1	
R8067	D0GB911JA002	M 910 OHM,J,1/16W	1	
R8069	ERJ6GEYJ681	M 680 OHM,J,1/10W	1	
R8072	J0JCC0000100	CHIP INDUCTOR	1	
R8089	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R8093	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R8097,98	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R8100	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R8117-20	J0JCC0000100	CHIP INDUCTOR	4	
R8121,22	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R8124-27	ERJ6GEYJ101	M 100 OHM,J,1/10W	4	
R8129	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R8131-35	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
R8181	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R8182	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R8183,84	J0JCC0000100	CHIP INDUCTOR	2	
R8185,86	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R8187,88	ERJ6GEYJ560	M 56 OHM,J,1/10W	2	
R8189,90	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R8200	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R8201	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R8202,03	ERJ3GEYJ223	M 22KOHM,J,1/16W	2	
R8204	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R8205	ERJ3GEYJ563	M 56KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R8206	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R8207	J0JCC0000100	CHIP INDUCTOR	1	
R9001-03	EXB2HVR000	RESISTOR ARRAY	3	
R9004	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9005	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9006	ERJ3EKF6801	M 6.8KOHM, 1/16W	1	
R9007	ERJ3GEYJ390	M 39 OHM,J,1/16W	1	
R9008	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9009	ERJ3GEYJ390	M 39 OHM,J,1/16W	1	
R9010	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9011	ERJ3GEYJ390	M 39 OHM,J,1/16W	1	
R9012-14	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9016-19	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9020	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9021	ERJ3GEYJ100V	M 10 OHM,J, 1/16W	1	
R9023	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9024	ERJ6GEY0R00V	M 0 OHM, 1/10W	1	
R9028-30	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9032	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9034	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9035-38	TAJAAH0101JV	M 100 OHM,J,1/16W	4	
R9039-42	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9043-44	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	2	
R9088	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9094	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9101,02	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9104-07	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9108	EXB38V103J	RESISTOR ARRAY	1	
R9109	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9110,11	EXB38V103J	RESISTOR ARRAY	2	
R9112	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9114,15	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9116-26	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	11	
R9127	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9129,30	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9131,32	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9133,34	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R9137	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9139	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9140	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9142	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9144	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9145	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9149	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9151,52	D1HG1038A002	NETWORK RESISTER	2	
R9156,57	EXB2HV470JV	RESISTOR ARRAY	2	
R9158	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9159	ERJ3GEYJ103V	M 10KOHM,J,1/16W	1	
R9171	ERJ3GEYJ470V	M 47 OHM,J, 1/16W	1	
R9205	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9207	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9209	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9211-20	TAJAAH0101JV	M 100 OHM,J,1/16W	10	
R9221,22	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R9223	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9226,27	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9229	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9237	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9238	EXB38V470J	RESISTOR ARRAY	1	
R9239	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9240-43	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9244	ERJ3GEYJ220V	M 22 OHM,J, 1/16W	1	
R9245	ERJ3GEYJ102V	M 1KOHM,J, 1/16W	1	
R9249	ERJ3GEY0R00V	M 0 OHM, 1/16W	1	
R9250	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9251	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9252	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9256,57	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9260	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9266	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9267	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9271-73	EXB2HV820JV	RESISTOR ARRAY	3	
R9274,75	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R9276	ERJ3GEYJ220V	M 22 OHM,J, 1/16W	1	
R9277-79	EXB2HV101JV	RESISTOR ARRAY	3	
R9280,81	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R9282	ERJ3GEYJ220V	M 22 OHM,J, 1/16W	1	
R9283	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9284	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9286	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9287,88	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9293-95	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	3	
R9296	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9297	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9388,89	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9390	EXB38V470J	RESISTOR ARRAY	1	
R9391-93	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9394,95	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R9396,97	EXB38V470J	RESISTOR ARRAY	2	
R9400-03	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9406,07	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9411	EXB2HV470JV	RESISTOR ARRAY	1	
R9412	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9413-17	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
R9418	EXB2HV470JV	RESISTOR ARRAY	1	
R9419	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9420	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9421,22	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9423	EXB2HV470JV	RESISTOR ARRAY	1	
R9424	EXB38V470J	RESISTOR ARRAY	1	
R9425,26	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9427	EXB2HV470JV	RESISTOR ARRAY	1	
R9428	EXB38V470J	RESISTOR ARRAY	1	
R9429,30	EXB2HV470JV	RESISTOR ARRAY	2	
R9431	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9432	EXB2HV470JV	RESISTOR ARRAY	1	
R9433	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9434	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9435	EXB2HV470JV	RESISTOR ARRAY	1	
R9436	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9437-40	EXB2HV470JV	RESISTOR ARRAY	4	
R9441,42	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9443	EXB38V470J	RESISTOR ARRAY	1	
R9444	EXB2HV470JV	RESISTOR ARRAY	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9919,9 2	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9993	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9995,9 6	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
RF601	HUF5K100J14	THERMAL CUTOFF WITH RESISTOR	1	▲
RM001	PNA4701M05TV	REMOCO RECEIVER	1	
RTL	TNPA3640	CIRCUIT BOARD V1	1	▲
RTL	TNPA3642	CIRCUIT BOARD S1	1	▲
RTL	TNPA3003	CIRCUIT BOARD H3	2	▲
RTL	TNPA3630AB	CIRCUIT BOARD J	1	▲
RTL	TZTNP020YNS	CIRCUIT BOARD HX	1	▲
RTL	TXNHA10RBS	CIRCUIT BOARD HA	1	▲
RTL	TNPA2844AB	CIRCUIT BOARD HB	1	PAVCCZ ▲
RTL	ETXMM563MDK	CIRCUIT BOARD P	1	▲
RTL	TNPA3553AB	CIRCUIT BOARD C1	1	▲
RTL	TNPA3554AB	CIRCUIT BOARD C2	1	▲
RTL	TNPA3555	CIRCUIT BOARD C3	1	▲
RTL	TNPA3556	CIRCUIT BOARD C4	1	▲
RTL	TZTNP01YQSE	CIRCUIT BOARD D	1	PAVCCZ ▲
RTL	TNPA3655	CIRCUIT BOARD PB	1	▲
RTL	TNPA3557	CIRCUIT BOARD SC	1	▲
RTL	TNPA3190AC	CIRCUIT BOARD SD	1	▲
RTL	TNPA3558	CIRCUIT BOARD SS	1	▲
RTL	TNPA3675	CIRCUIT BOARD SS2	1	▲
RTL	TNPA3676	CIRCUIT BOARD SS3	1	▲
RTL	TNPA3189AC	CIRCUIT BOARD SU	1	▲
RTL	TNPA3641	CIRCUIT BOARD V2	1	▲
S34	K1KA03AA0193	3P CONNECTOR	1	
SC2	K1KA06AA0192	6P CONNECTOR	1	
SC20	K1KA20AA0008	20P CONNECTOR	1	
SC23	K1KA03AA0193	3P CONNECTOR	1	
SC41,42	K1ML80B00001	80P CONNECTOR	2	
SC45,46	K1KA10A00431	10P CONNECTOR	2	
SC90	K1KA06AA0192	6P CONNECTOR	1	
SD1-D4	K1MN96B00004	96P CONNECTOR	4	
SD46	K1KA10B00209	10P CONNECTOR	1	
SS11	K1KA07AA0192	7P CONNECTOR	1	
SS12	K1KA10AA0194	10P CONNECTOR	1	
SS20,21	K1KA07A00170	7P CONNECTOR	2	
SS22,23	K1KB07AA0087	7P CONNECTOR	2	
SS24	K1KA04AA0193	4P CONNECTOR	1	
SS32	K1KA12AA0194	12P CONNECTOR	1	
SS34	K1KA03AA0193	3P CONNECTOR	1	
SS52,53	K1MN13B00020	13P CONNECTOR	2	
SS55,56	K1MN13B00020	13P CONNECTOR	2	
SU1-U4	K1MN96B00004	96P CONNECTOR	4	
SU45	K1KA10B00209	10P CONNECTOR	1	
SW061	K0F162B00002	SWITCH	1	
SW1550- 54	EVQPLHA15	SWITCH	5	▲
T301	ETB28BF1Z1AH	TRANSFORMER	1	
T401	ETB57LZ135AD	TRANSFORMER	1	
T501	ETB25KA1A8AD	TRANSFORMER	1	
T6431	ETS13TB139AP	SWITCHING TRANS	1	
T6471	ETS22AE2F9AC	SWITCHING TRANS	1	
TH351	PRFCBB471	POSISTOR	1	
V2	K1KA06BA0047	6P CONNECTOR	1	
V15	K1KA03BA0047	3P CONNECTOR	1	
VR351	EVMEASA00B54	VARIABLE RESISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
VR352	EVMEASA00B54	VARIABLE RESISTOR	1	
VR451	EVMEASA00B53	VARIABLE RESISTOR	1	
VR6145	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
VR6477	EVMEASA00B13	CONTROL 1KOHMB 0.3W	1	
VR6523	EVMEASA00B53	CONTROL 5KOHMB 0.3W	1	
VR6557	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
X2301	H0J184500020	CRYSTAL	1	
X3101	H0J202500002	CRYSTAL	1	
X8181	H0J327200114	CRYSTAL	1	
X9500	H0J200500038	CRYSTAL	1	
X9701	H0J400400017	CRYSTAL	1	
Z501	ERZVGAD471	VARISTOR	1	▲
Z601	ERZVGAD751	VARISTOR	1	▲
Z603	ERZVGAD471	VARISTOR	1	▲
ZA001	K4CD01000013	TERMINAL	1	
ZA007	K4CD01000013	TERMINAL	1	
ZA3001- 08	K4CD01000013	TERMINAL	8	
ZA6101- 03	K4CD01000013	TERMINAL	3	
ZA6401- 03	K4CD01000013	TERMINAL	3	
ZA7101- 03	K4CD01000013	TERMINAL	3	
ZA7201- 03	K4CD01000013	TERMINAL	3	
ZA7301- 03	K4CD01000013	TERMINAL	3	
ZA7401- 03	K4CD01000013	TERMINAL	3	
ZD301, 2	MA8360	ZENER DIOED	2	
ZD303	MA8360	ZENER DIOED	1	
ZD304- 06	MA8360	ZENER DIOED	3	
ZD307	MA8330	ZENER DIODE	1	
ZD308	MA8330	ZENER DIODE	1	
ZD309	MA4051N	ZENER DIODE	1	
ZD310	MA4020	ZENER DIODE	1	
ZD311, 2	MA4270N	ZENER DIODE	2	
ZD402	PTZ24B	ZENER DIODE	1	
ZD403	MA8056	ZENER DIODE	1	
ZD404	MA8360	ZENER DIOED	1	
ZD405- 09	MA8360	ZENER DIOED	5	
ZD410	MA4220N	ZENER DIODE	1	
ZD413	MA4270N	ZENER DIODE	1	
ZD451	1ZB18	ZENER DIODE	1	
ZD510	MA8270	ZENER DIODE	1	
ZD601	MA4220N	ZENER DIODE	1	
ZD668, 9	MA8220	ZENER DIODE	2	