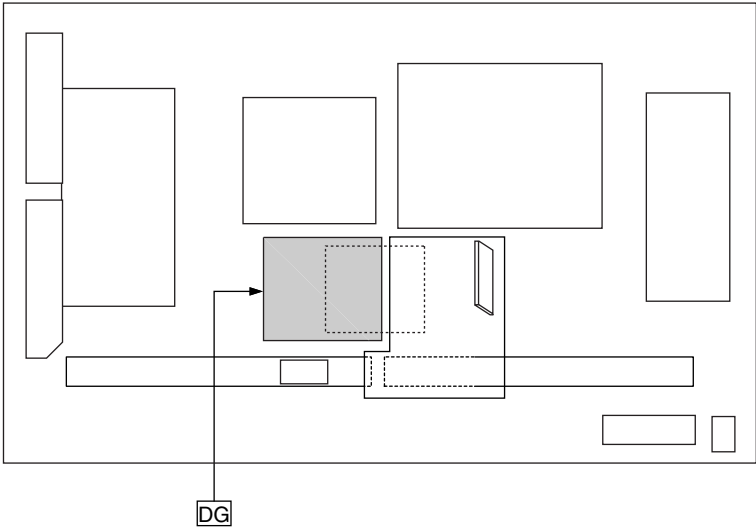
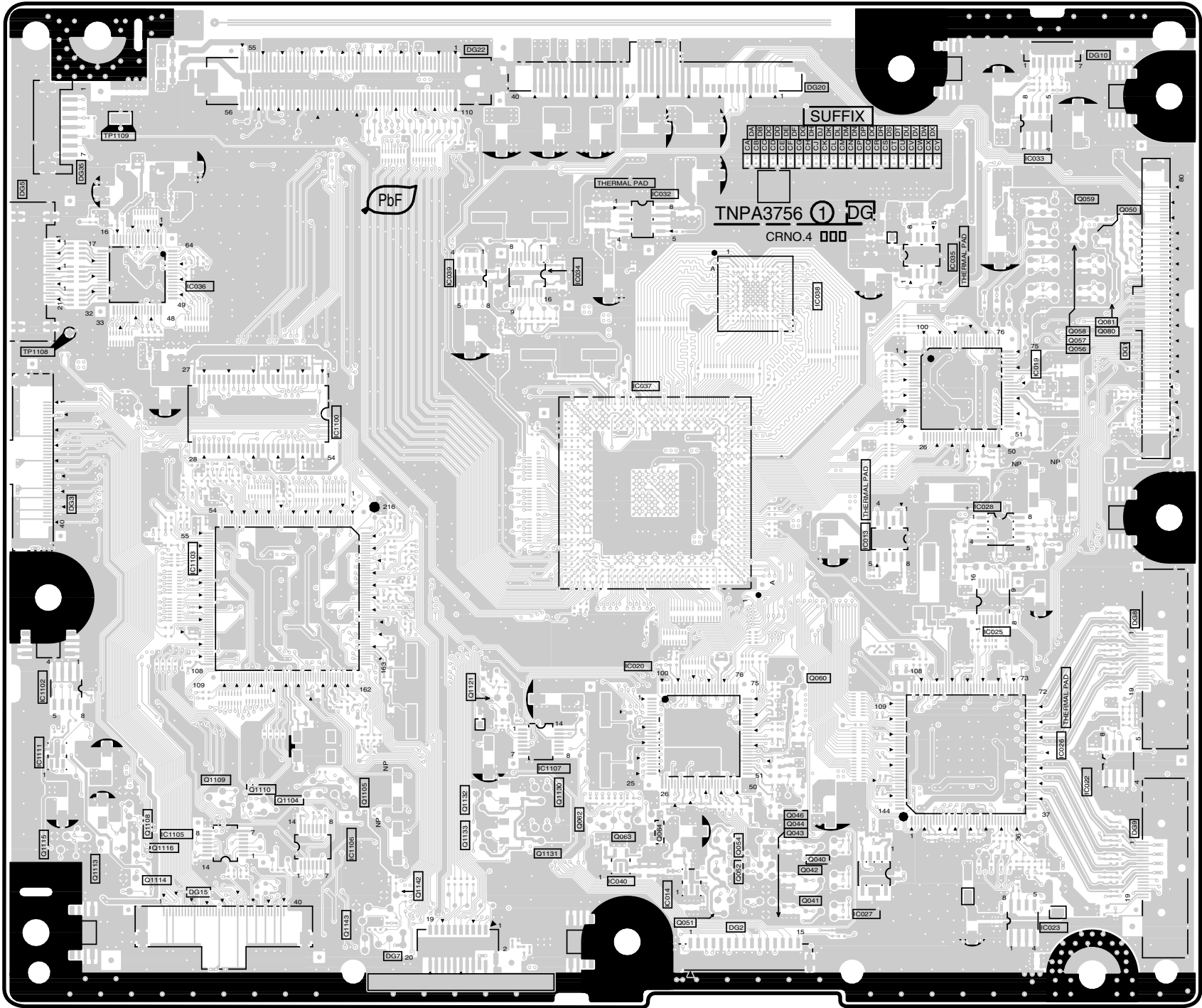


DG-BOARD (COMPONENT SIDE)
TNPA3756CQ (PA60A)
TNPA3756CT (PA60H/M/MT)



Parts Location

DG-BOARD (COMPONENT SIDE)					
IC		TRANSISTOR			
IC1100	C-4	Q1104	B-2	Q4056	F-4
IC1102	A-2	Q1105	C-2	Q4057	F-4
IC1103	B-3	Q1108	B-2	Q4058	F-4
IC1105	B-2	Q1109	B-2	Q4059	F-5
IC1106	C-2	Q1110	B-2	Q4060	E-2
IC1107	D-2	Q1113	A-2	Q4062	D-2
IC1111	A-2	Q1114	B-2	Q4063	D-2
IC4013	E-3	Q1115	A-2	Q4064	D-2
IC4014	D-1	Q1116	B-2	Q4080	F-4
IC4019	F-4	Q1121	C-2	Q4081	F-4
IC4020	D-3	Q1130	D-2	TP	
IC4022	F-2	Q1131	D-2		
IC4023	F-1	Q1132	C-2	TP1108	A-4
IC4025	F-3	Q1133	C-2	TP1109	A-5
IC4026	F-2	Q1142	C-1		
IC4027	E-1	Q1143	C-1		
IC4028	F-3	Q4040	E-2		
IC4032	D-5	Q4041	E-1		
IC4033	F-5	Q4042	E-2		
IC4034	D-4	Q4043	E-2		
IC4035	E-4	Q4044	E-2		
IC4036	B-4	Q4046	E-2		
IC4037	D-4	Q4050	F-5		
IC4038	E-4	Q4051	D-1		
IC4039	C-4	Q4052	D-2		
IC4040	D-2	Q4054	D-2		

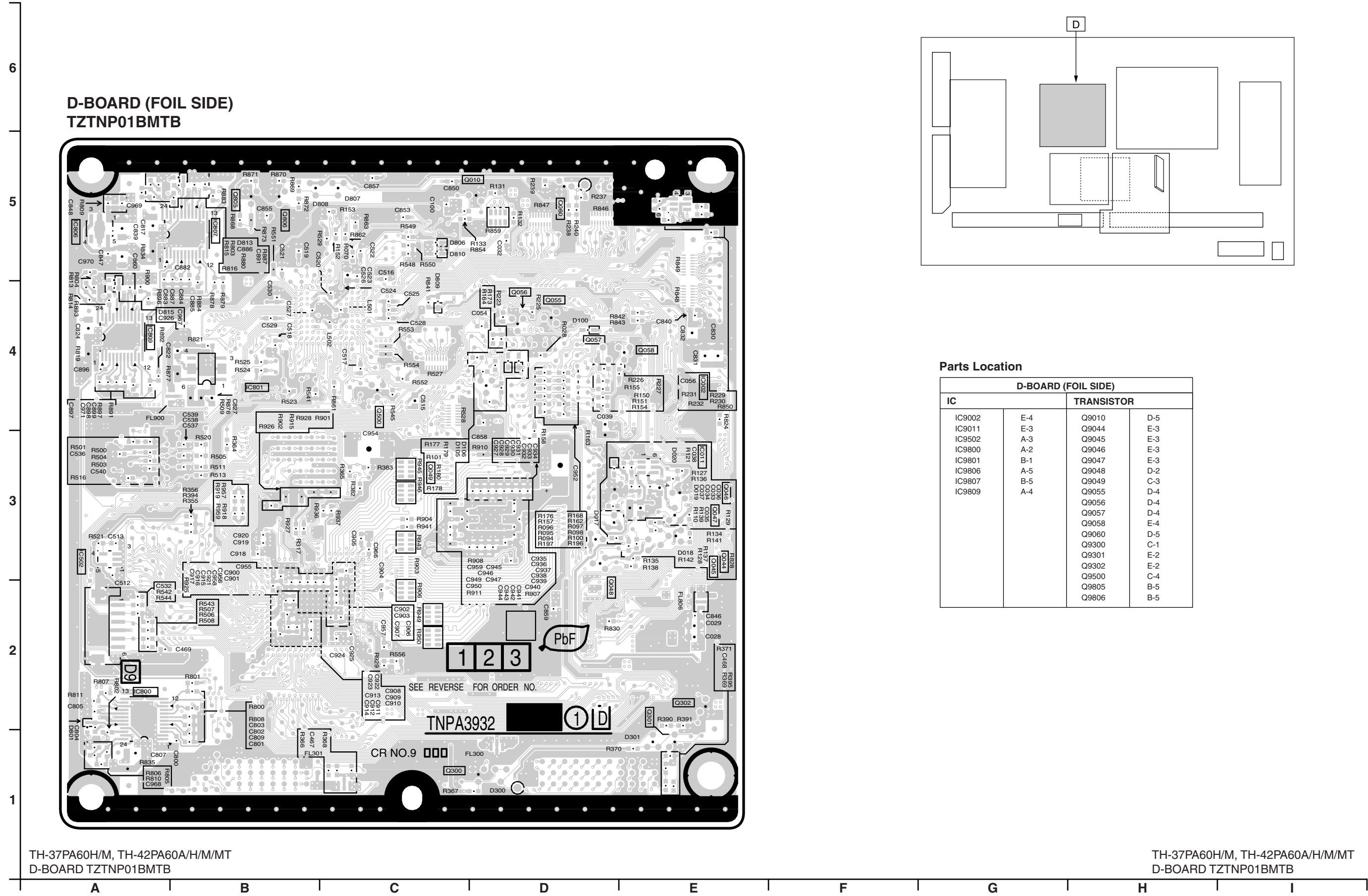
TH-42PA60A
DG-BOARD TNPA3756CQ

TH-37/42PA60H/M/MT
DG-BOARD TNPA3756CT

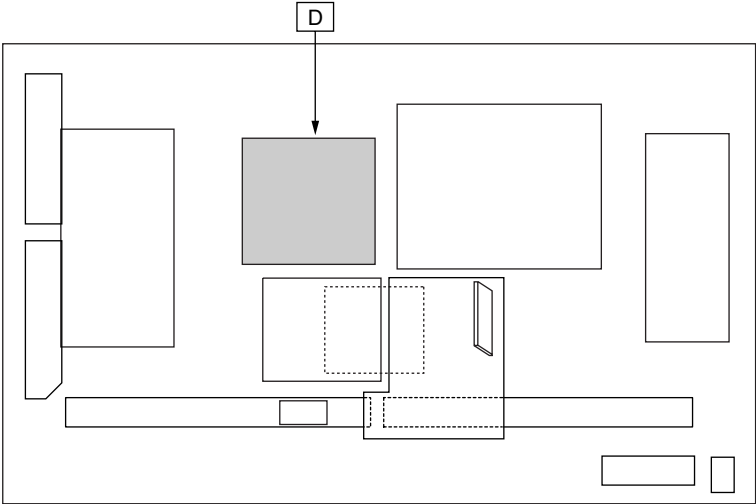
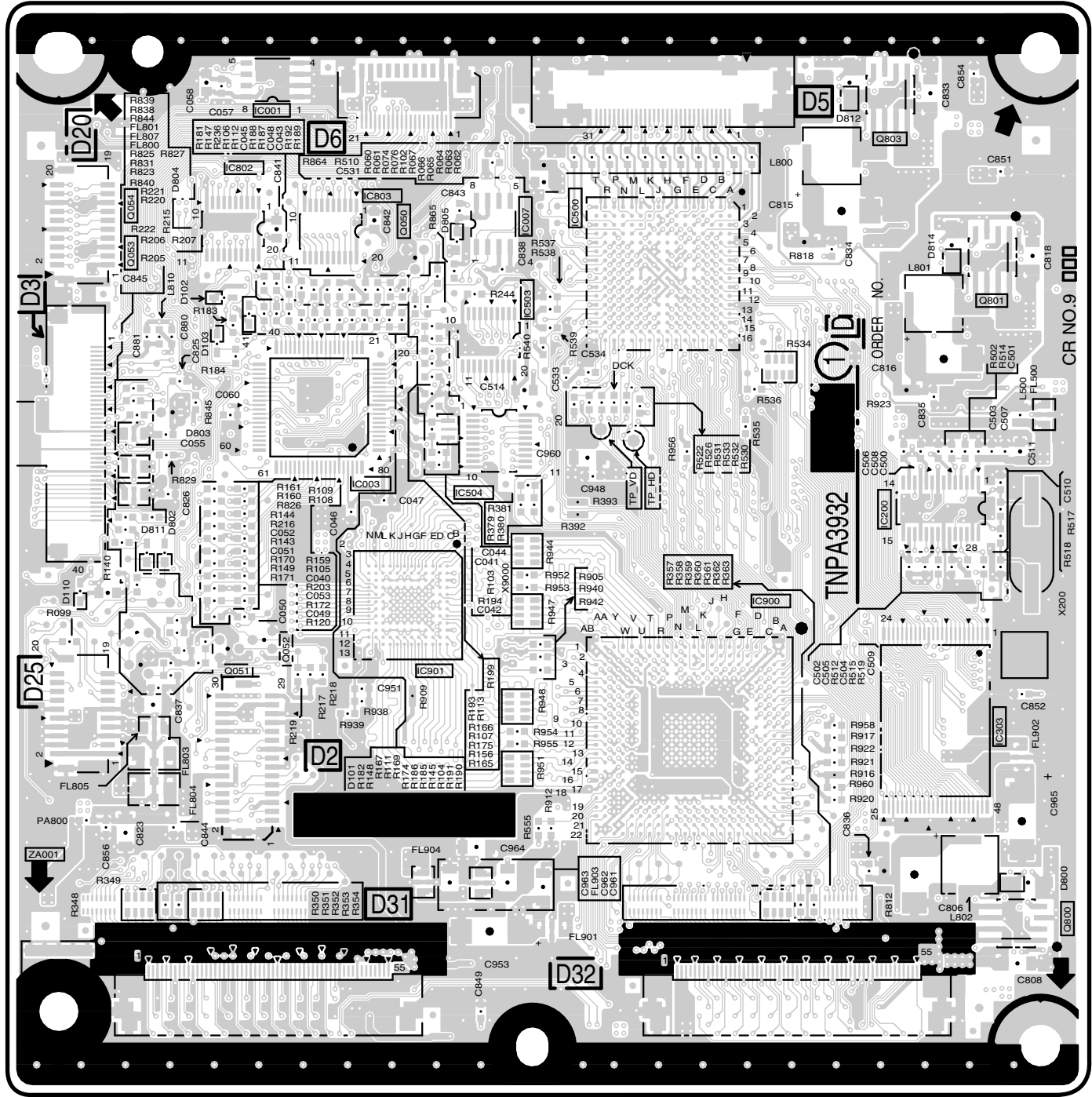
TH-42PA60A
DG-BOARD TNPA3756CQ

TH-37/42PA60H/M/MT
DG-BOARD TNPA3756CT

13.7. D-Board



D-BOARD (COMPONENT SIDE)
TZTNP01BMTB



Parts Location

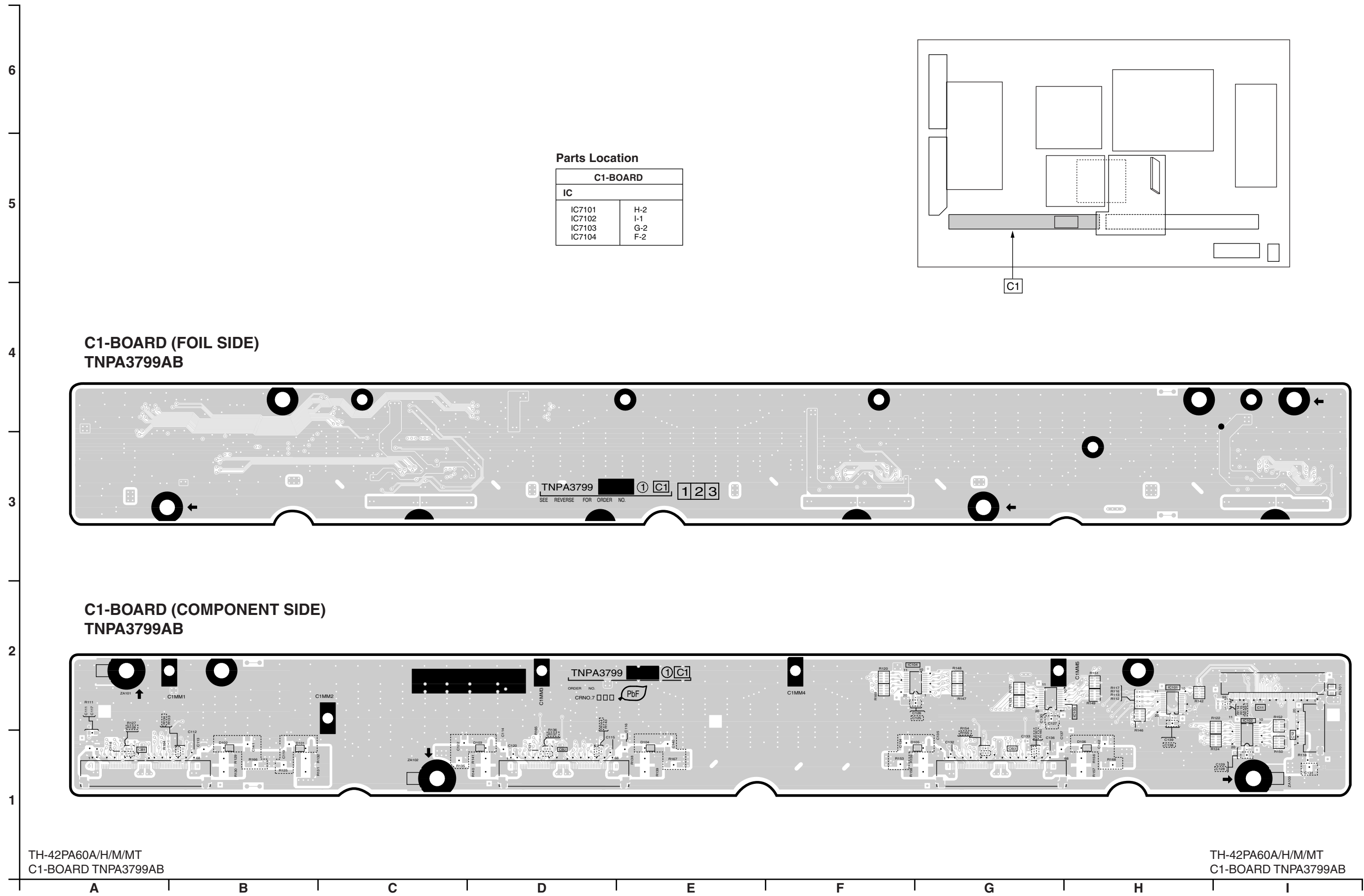
D-BOARD (COMPONENT SIDE)			
IC		TRANSISTOR	
IC9001	B-5	Q9050	B-5
IC9003	B-3	Q9051	B-3
IC9007	C-5	Q9052	B-3
IC9200	D-3	Q9053	A-4
IC9303	E-2	Q9054	A-5
IC9500	C-5	Q9800	E-2
IC9503	C-4	Q9801	E-4
IC9504	C-3	Q9803	D-5
IC9802	B-5	TP	
IC9803	B-5		
IC9900	D-3		
IC9901	C-3	TP_HD	C-3
		TP_VD	C-3

TH-37PA60H/M, TH-42PA60A/H/M/MT
D-BOARD TZTNP01BMTB

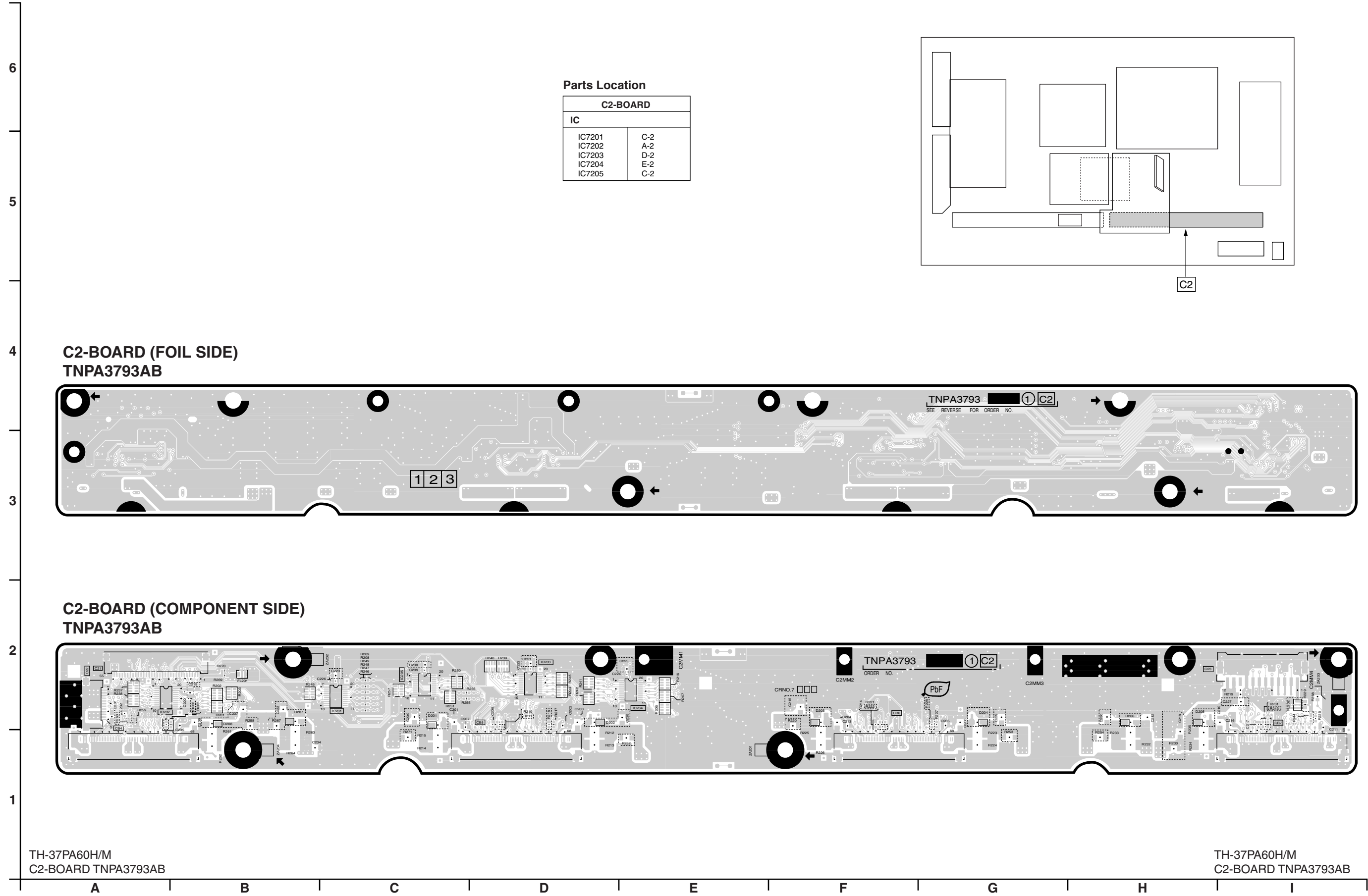
TH-37PA60H/M, TH-42PA60A/H/M/MT
D-BOARD TZTNP01BMTB

TH-37PA60H/M
C1-BOARD TNPA3792AB

13.9. C1-Board (42inch)



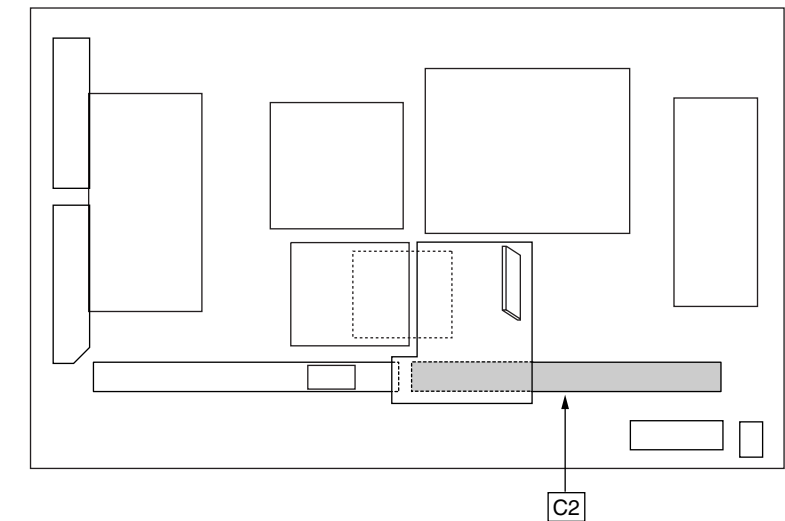
13.10. C2-Board (37inch)



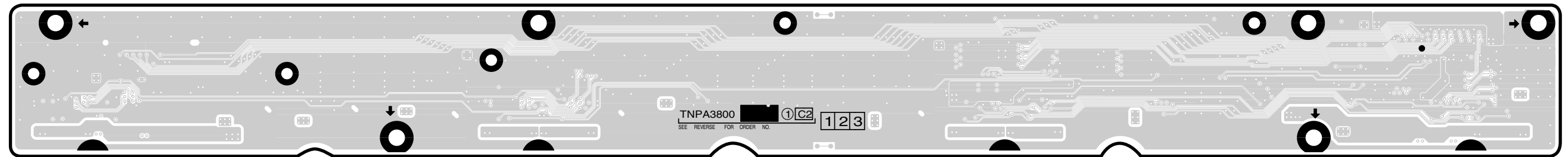
13.11. C2-Board (42inch)

Parts Location

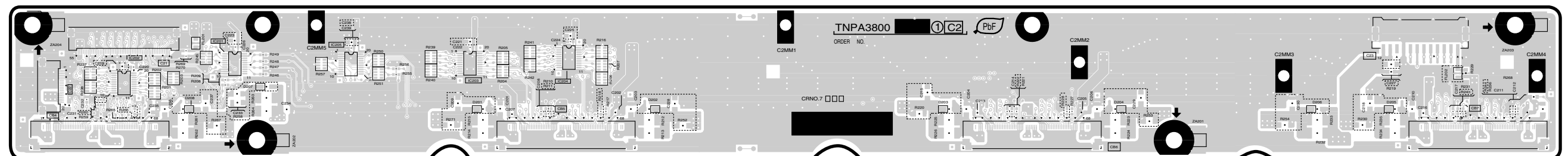
C2-BOARD	
IC	
IC7201	B-2
IC7202	A-2
IC7203	C-2
IC7204	D-2
IC7205	C-2



C2-BOARD (FOIL SIDE)
TNPA3800AB



C2-BOARD (COMPONENT SIDE)
TNPA3800AB

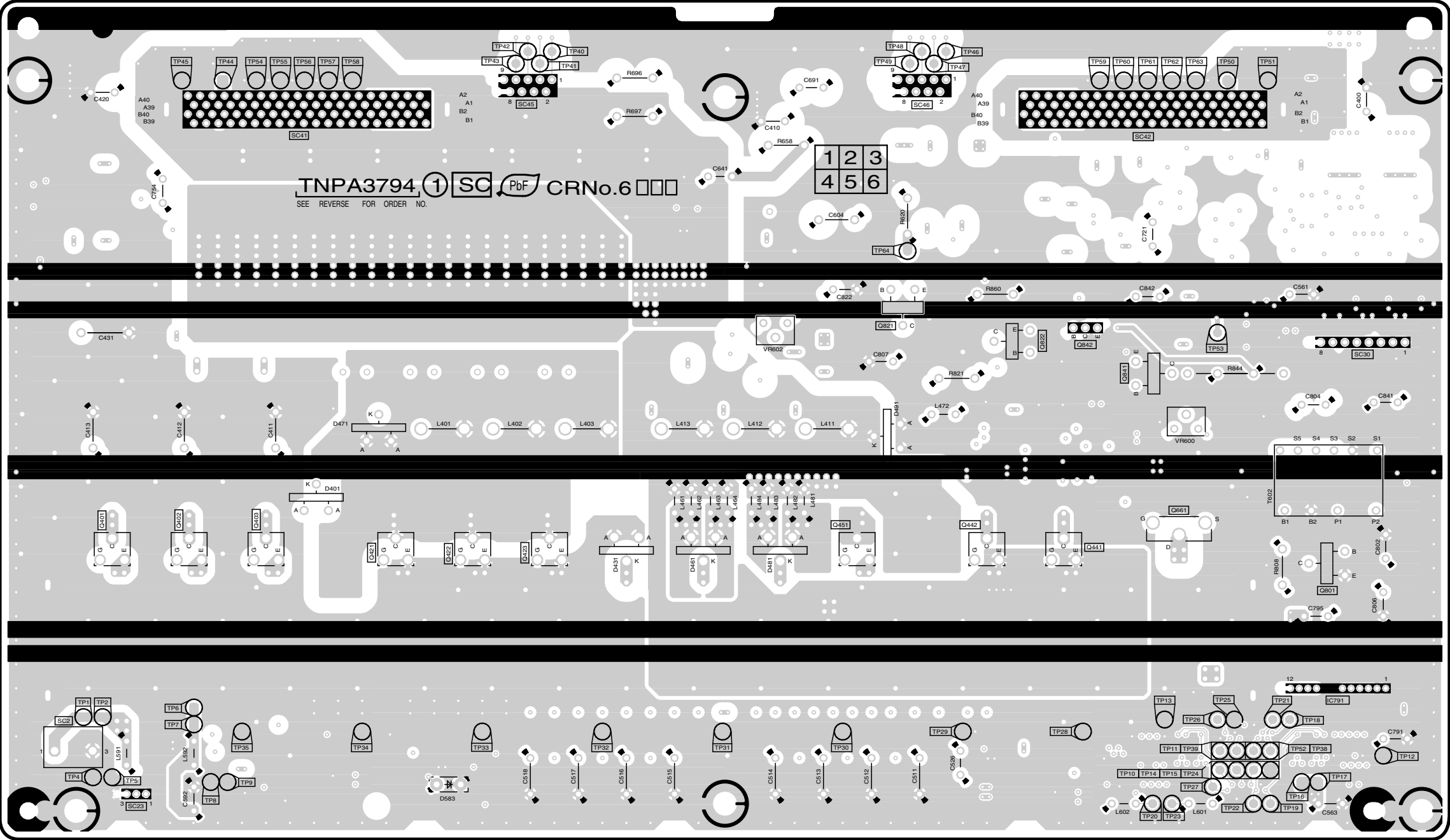


TH-42PA60A/H/M/MT
C2-BOARD TNPA3800AB

TH-42PA60A/H/M/MT
C2-BOARD TNPA3800AB

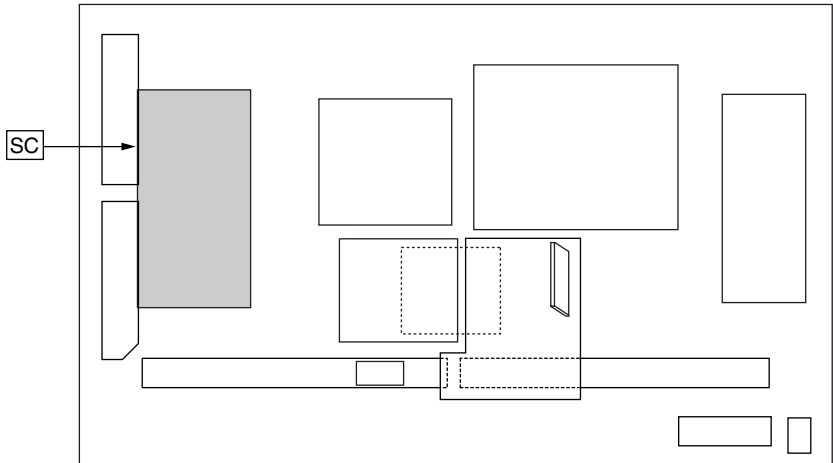
13.12. SC-Board

SC-BOARD (FOIL SIDE)
TNPA3794AE (37inch)
TNPA3794AB (42inch)



TH-37PA60H/M SC-BOARD TNPA3794AE
TH-42PA60A/H/M/MT SC-BOARD TNPA3794AB

TH-37PA60H/M SC-BOARD TNPA3794AE
TH-42PA60A/H/M/MT SC-BOARD TNPA3794AB



Parts Location

SC-BOARD (FOIL SIDE)					
IC		TP		TP40	D-5
IC6791	H-2	TP1	B-2	TP41	D-5
TRANSISTOR		TP2	B-2	TP42	D-5
		TP4	B-1	TP43	D-5
Q6401	B-3	TP5	B-1	TP44	B-5
Q6402	B-3	TP6	B-2	TP45	B-5
Q6403	C-3	TP7	B-2	TP46	F-5
Q6421	C-2	TP8	B-1	TP47	F-5
Q6422	D-2	TP9	C-1	TP48	F-5
Q6423	D-2	TP10	G-1	TP49	F-5
Q6441	G-3	TP11	G-1	TP50	H-5
Q6442	F-3	TP12	I-1	TP51	H-5
Q6451	F-3	TP13	G-2	TP52	H-1
Q6661	G-3	TP14	G-1	TP53	H-4
Q6801	H-2	TP15	G-1	TP54	C-5
Q6821	F-4	TP16	H-1	TP55	C-5
Q6822	G-4	TP17	H-1	TP56	C-5
Q6841	G-3	TP18	H-2	TP57	C-5
Q6842	G-4	TP19	H-1	TP58	C-5
		TP20	G-1	TP59	G-5
		TP21	H-2	TP60	G-5
		TP22	H-1	TP61	G-5
		TP23	G-1	TP62	G-5
		TP24	G-1	TP63	G-5
		TP25	H-2	TP64	F-4
		TP26	G-2	VOLUME	
		TP26	H-2	VR6600 VR6602	G-3 E-4
		TP27	G-1		
		TP28	G-2		
		TP29	F-2		
		TP30	F-1		
		TP31	E-2		
		TP32	D-1		
		TP33	D-1		
		TP34	C-1		
		TP35	C-1		
		TP38	H-1		
		TP39	G-1		

Parts Location

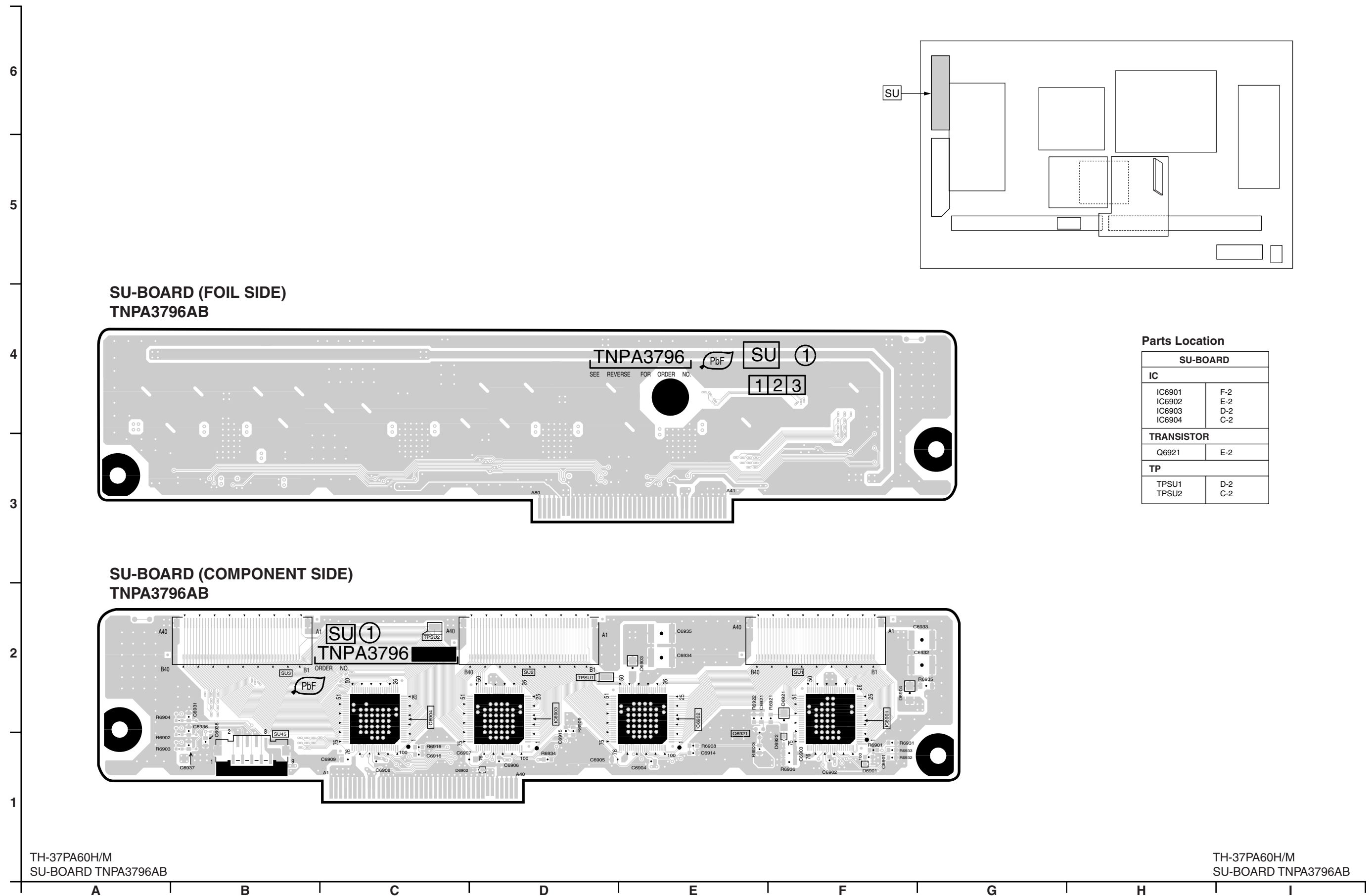
SC-BOARD (COMPONENT SIDE)							
IC		PHOTO COUPLER		Q6646	G-5	TP	
IC6471	B-4	PC6480	B-4	Q6647	G-5	TP15V	H-1
IC6472	B-4	PC6701	A-3	Q6648	H-5	TPSC1	F-5
IC6501	G-1	PC6702	A-3	Q6661	C-2	TPSOS6	B-1
IC6521	D-1	PC6703	A-3	Q6662	E-4	TPSOS7	C-1
IC6561	B-1	PC6704	H-5	Q6663	E-4	TPVAD	D-3
IC6562	C-2	PC6705	C-3	Q6671	E-3	TPVSCN	D-4
IC6581	F-2	PC6760	H-4	Q6680	E-3	TPVSET	D-4
IC6601	D-4	PC6801	B-3	Q6681	D-4	TPVSUS	H-1
IC6602	B-4	PC6861	B-4	Q6682	D-4		
IC6610	B-5	PC6871	C-3	Q6691	C-5	VOLUME	
IC6671	E-3	TRANSISTOR		Q6742	C-4	VR6600	C-2
IC6681	C-5	Q6401	H-3	Q6743	C-4	VR6602	D-5
IC6682	B-4	Q6402	H-3	Q6744	B-4		
IC6721	A-4	Q6403	G-3	Q6762	H-4		
IC6722	B-5	Q6421	G-3	Q6781	E-4		
IC6724	B-5	Q6422	F-3	Q6782	E-4		
IC6725	B-5	Q6423	F-3	Q6791	D-3		
IC6751	H-4	Q6441	C-2	Q6801	B-3		
IC6752	H-4	Q6442	D-2	Q6802	B-2		
IC6753	H-5	Q6451	D-2	Q6803	B-3		
IC6771	D-3	Q6471	B-3	Q6821	D-4		
IC6772	E-4	Q6511	G-2	Q6822	D-4		
IC6773	C-3	Q6512	H-2	Q6824	C-3		
IC6774	C-3	Q6516	G-1	Q6841	C-4		
IC6791	A-2	Q6517	G-1	Q6842	C-4		
IC6801	B-3	Q6531	C-1				
IC6802	C-4	Q6532	C-1				
IC6821	C-3	Q6581	F-1				
IC6841	C-4	Q6601	D-5				
IC6861	B-4	Q6602	D-5				
IC6871	C-3	Q6621	H-3				
		Q6622	G-3				
		Q6642	F-5				
		Q6643	F-5				
		Q6644	F-5				
		Q6645	G-5				

TH-37PA6H/M
TH-42PA60A/H/M/MT
SC-BOARD PARTS LOCATION

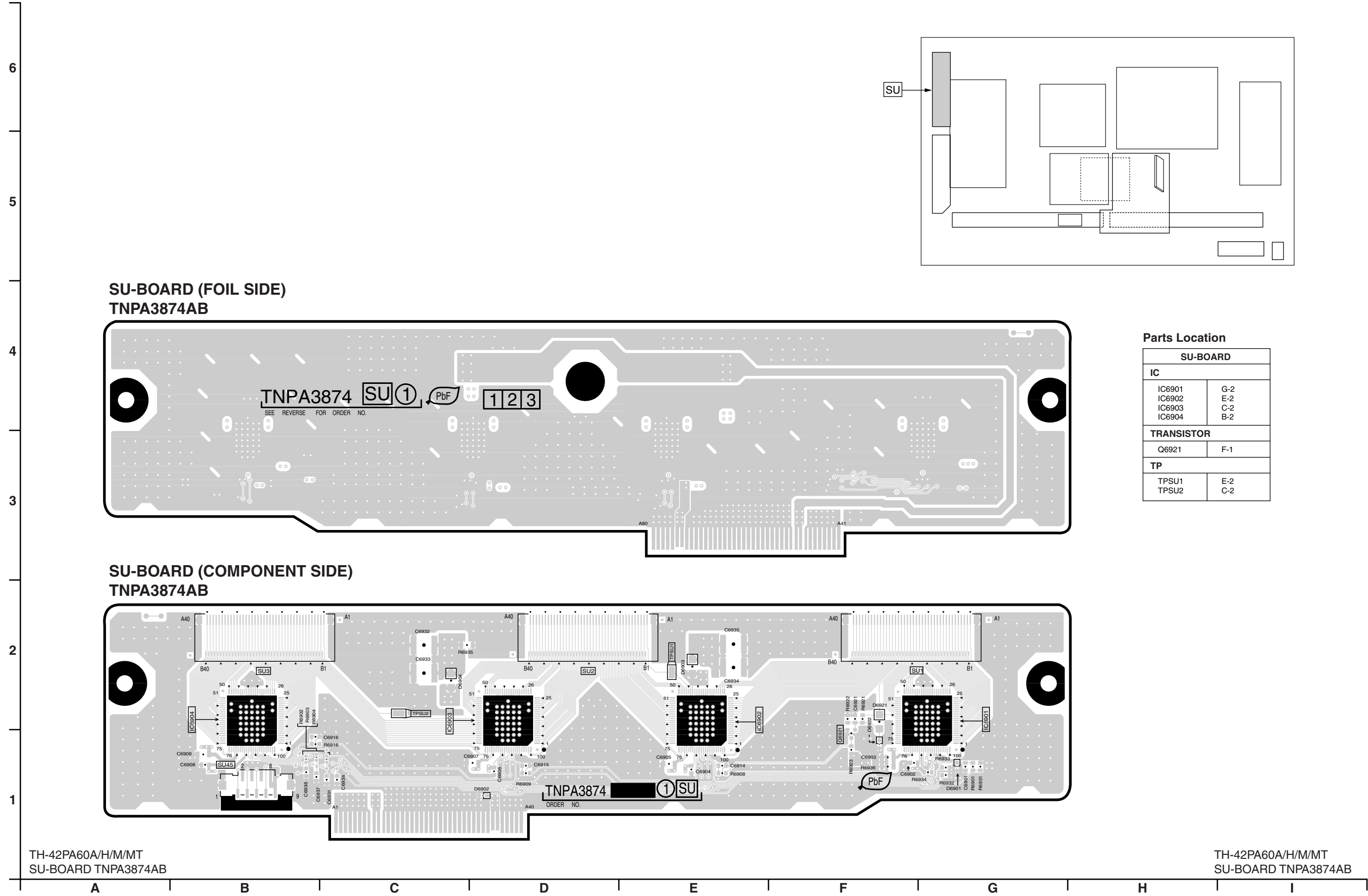
TH-37PA6H/M
TH-42PA60A/H/M/MT
SC-BOARD PARTS LOCATION

TH-37PA60H/M SC-BOARD TNPA3794AE
TH-42PA60A/H/M/MT SC-BOARD TNPA3794AB

13.13. SU-Board (37inch)



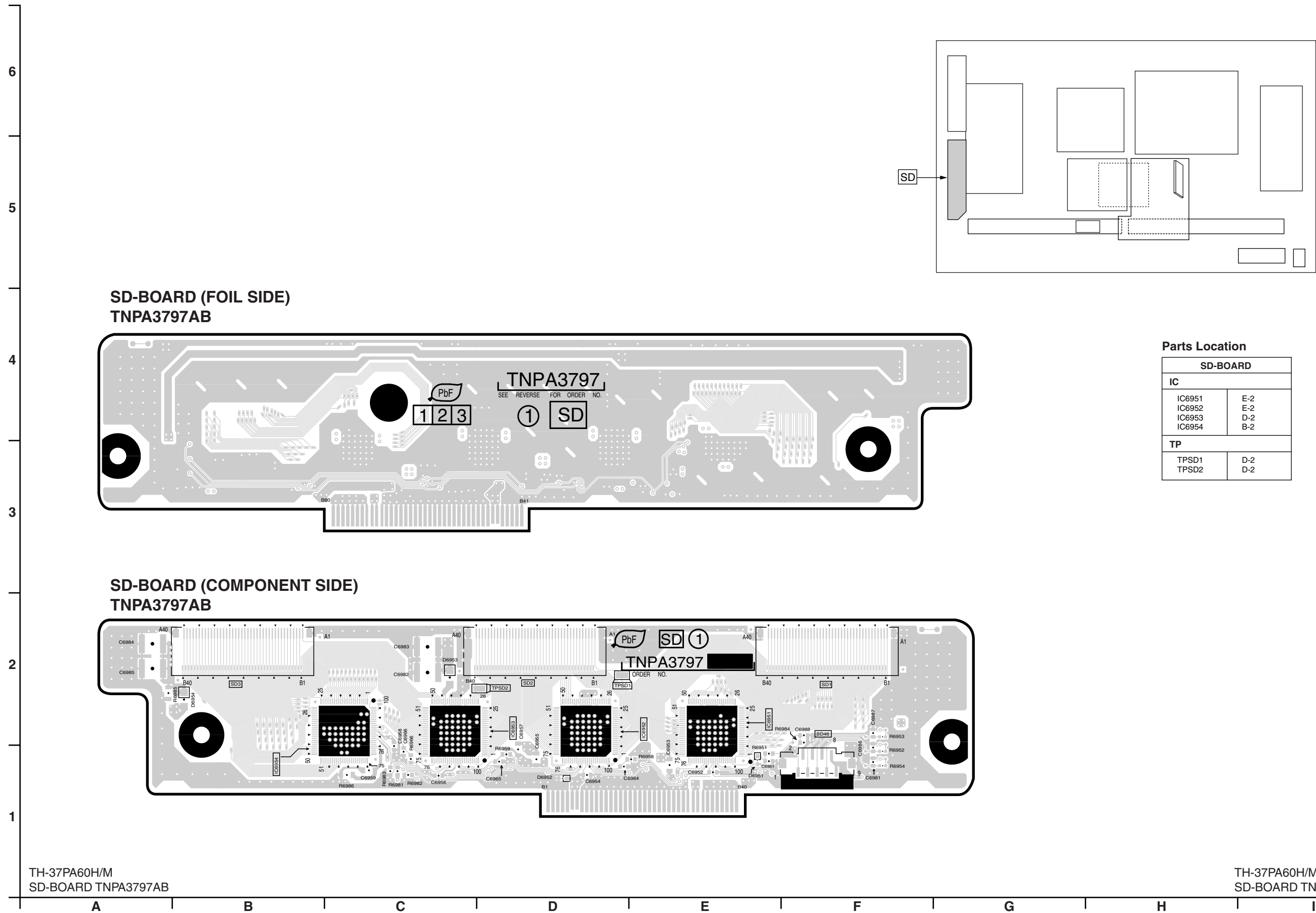
13.14. SU-Board (42inch)



TH-42PA60A/H/M/MT
SU-BOARD TNPA3874AB

TH-42PA60A/H/M/MT
SU-BOARD TNPA3874AB

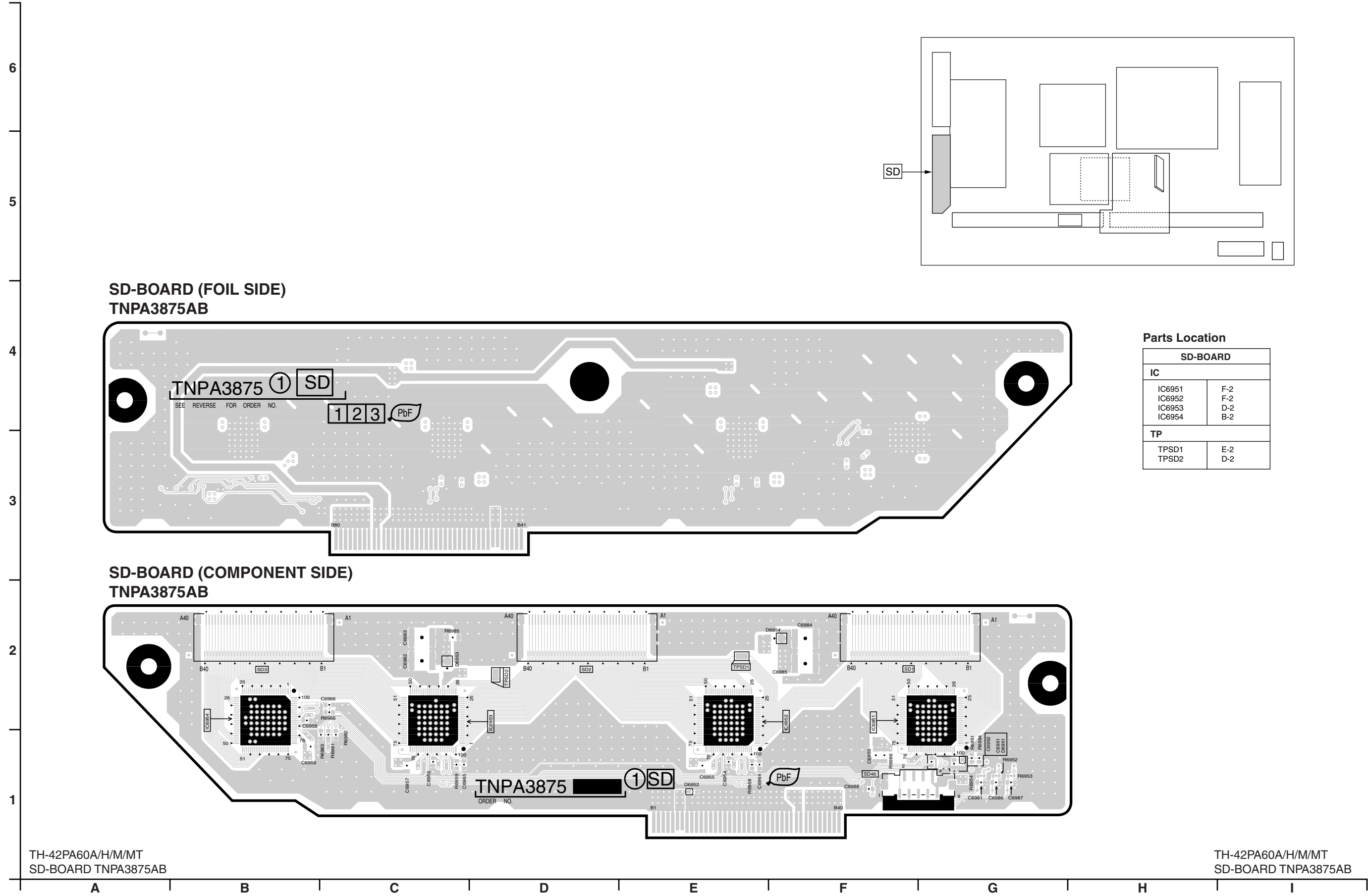
13.15. SD-Board (37inch)



TH-37PA60H/M
SD-BOARD TNPA3797AB

TH-37PA60H/M
SD-BOARD TNPA3797AB

13.16. SD-Board (42inch)



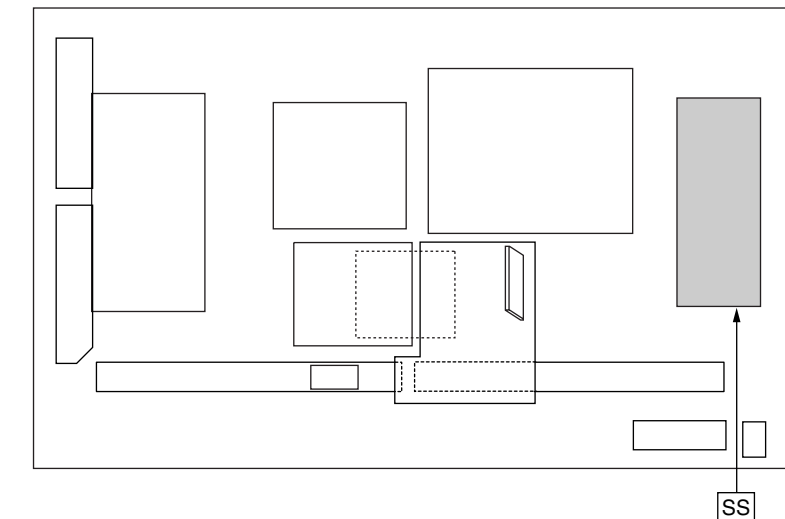
TH-42PA60A/H/M/MT
SD-BOARD TNPA3875AB

TH-42PA60A/H/M/MT
SD-BOARD TNPA3875AB

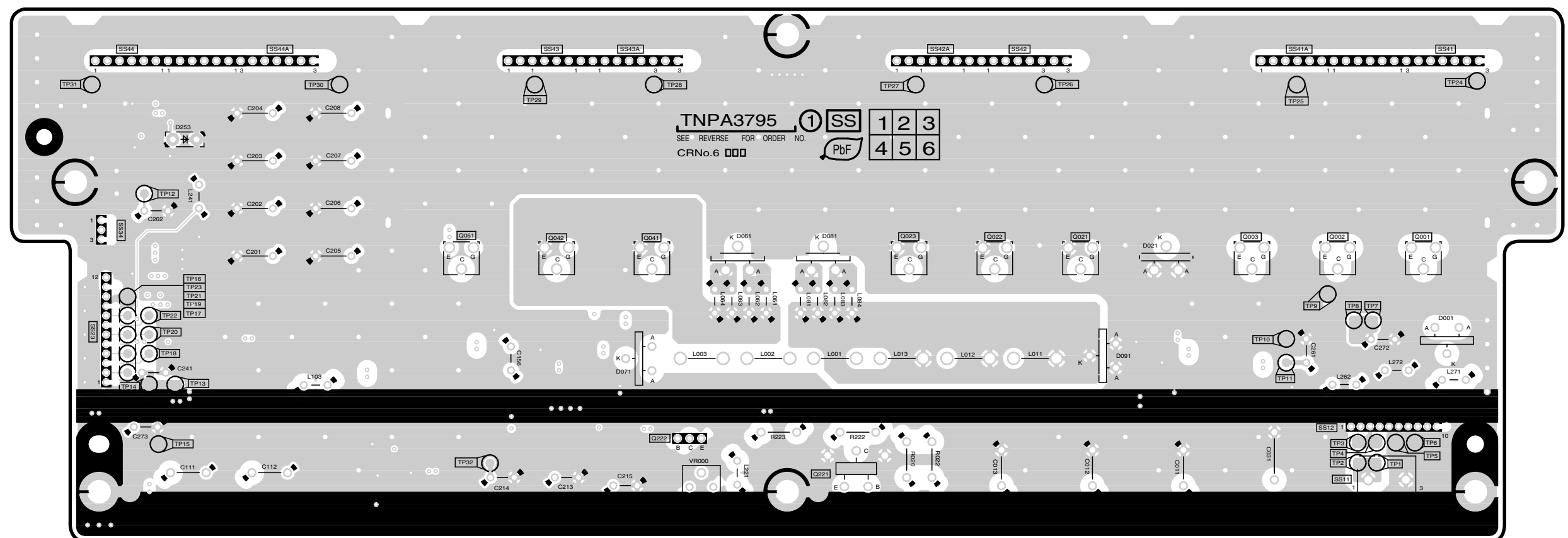
13.17. SS-Board

Parts Location

SS-BOARD (FOIL SIDE)					
TRANSISTOR		TP			
Q6001	H-2	TP1	H-1	TP16	B-2
Q6002	H-2	TP2	H-1	TP17	B-2
Q6003	H-2	TP3	H-1	TP18	B-2
Q6021	G-2	TP4	H-1	TP19	B-2
Q6022	F-2	TP5	H-1	TP20	B-2
Q6023	F-2	TP6	H-1	TP21	B-2
Q6041	D-2	TP7	H-2	TP22	B-2
Q6042	D-2	TP8	H-2	TP23	B-2
Q6051	C-2	TP9	H-2	TP24	H-3
Q6221	E-1	TP10	H-2	TP25	H-3
Q6222	D-1	TP11	H-2	TP26	G-3
		TP12	B-3	TP27	F-3
		TP13	B-2	TP28	D-3
		TP14	B-2	TP29	D-3
		TP15	B-1	TP30	C-3
				TP31	A-3
				TP32	C-1



SS-BOARD (FOIL SIDE)
TNPA3795AE (37inch)
TNPA3795AB (42inch)



TH-37PA60H/M SS-BOARD TNPA3795AE
TH-42PA60A/H/M/MT SS-BOARD TNPA3795AB

TH-37PA60H/M SS-BOARD TNPA3795AE
TH-42PA60A/H/M/MT SS-BOARD TNPA3795AB

6

5

4

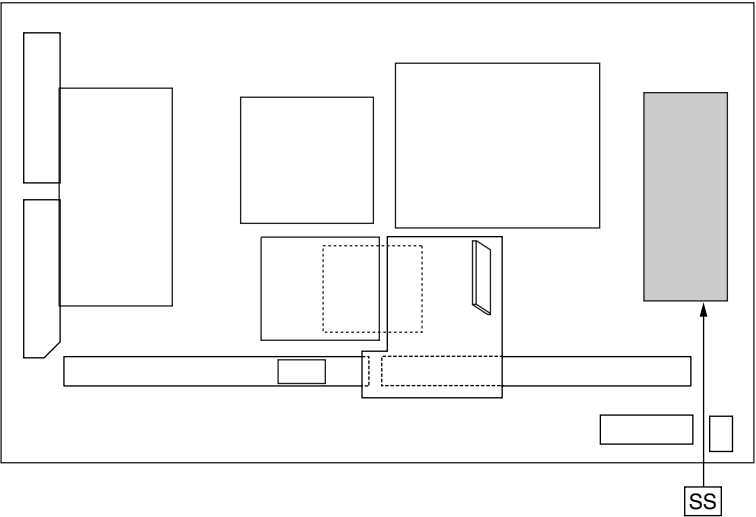
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2

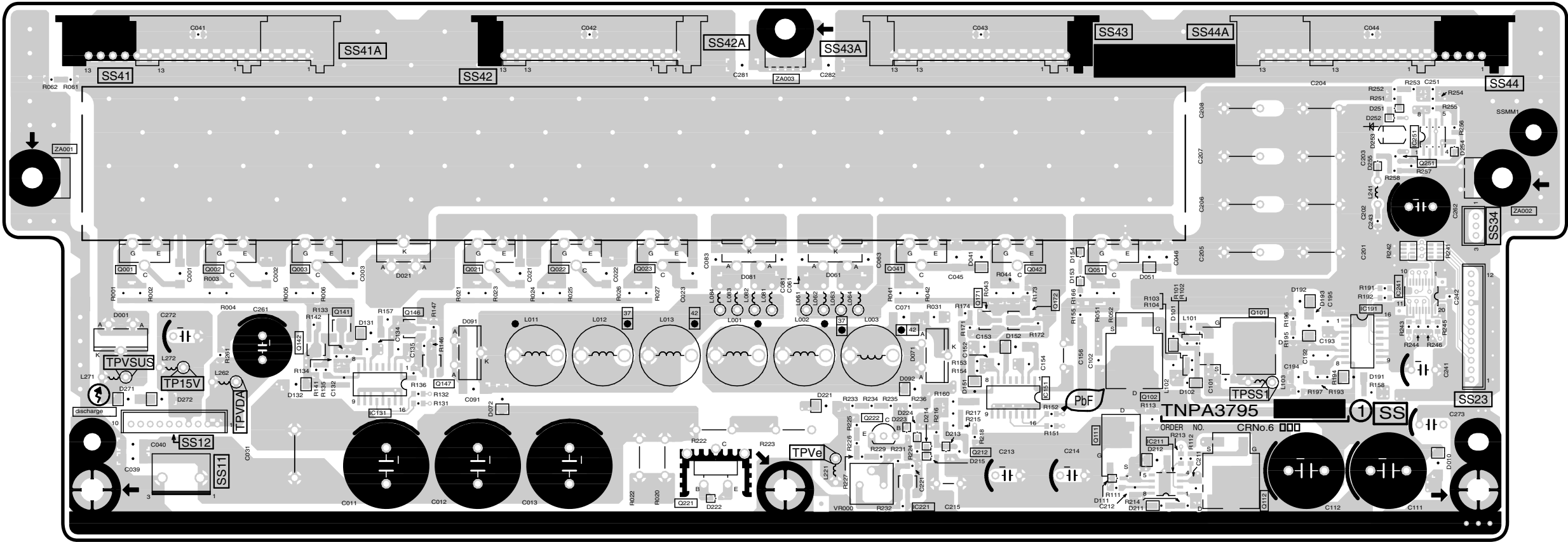
1

Parts Location

SS-BOARD (COMPONENT SIDE)							
IC		TRANSISTOR		Q6111		TP	
IC6131	C-2	Q6001	B-2	Q6111	G-1	TP15V	B-2
IC6151	F-2	Q6002	B-2	Q6112	H-1	TPSS1	H-2
IC6191	H-2	Q6003	C-2	Q6141	C-2	TPVDA	B-2
IC6211	G-1	Q6021	C-3	Q6142	C-2	TPVe	E-1
IC6221	F-1	Q6022	D-3	Q6147	C-2	TPVSUS	B-2
IC6241	H-2	Q6023	D-3	Q6171	F-2	VOLUME	
IC6251	H-3	Q6041	F-2	Q6172	F-1		
		Q6042	F-2	Q6212	E-1	VR6000	
		Q6051	G-2	Q6221	F-2		
		Q6101	H-2	Q6222	F-2		
		Q6102	G-2	Q6251	H-3		



SS-BOARD (COMPONENT SIDE)
TNPA3795AE (37inch)
TNPA3795AB (42inch)



TH-37PA60H/M SS-BOARD TNPA3795AE
TH-42PA60A/H/M/MT SS-BOARD TNPA3795AB

TH-37PA60H/M SS-BOARD TNPA3795AE
TH-42PA60A/H/M/MT SS-BOARD TNPA3795AB







14 Schematic and Block Diagram

14.1. Schematic Diagram Note

Important Safety Notice

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

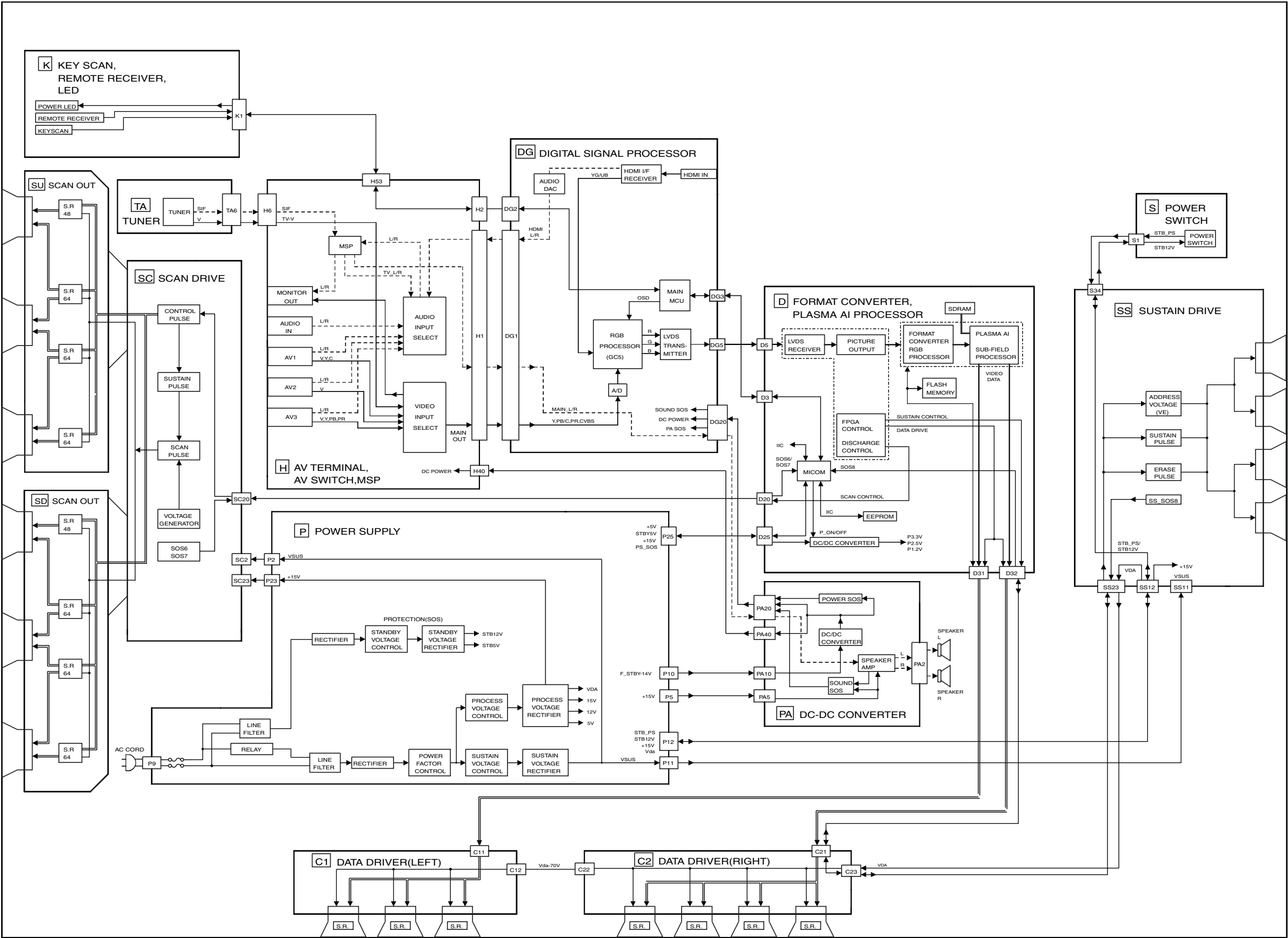
Notes:

- 1. **Resistor**
Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
- 2. **Capacitor**
Unit of capacitance is μ F, 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 () is found, connection is easily found from the direction of arrow.
- 8. Indicates the major signal flow. : Video  Audio 
- 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.

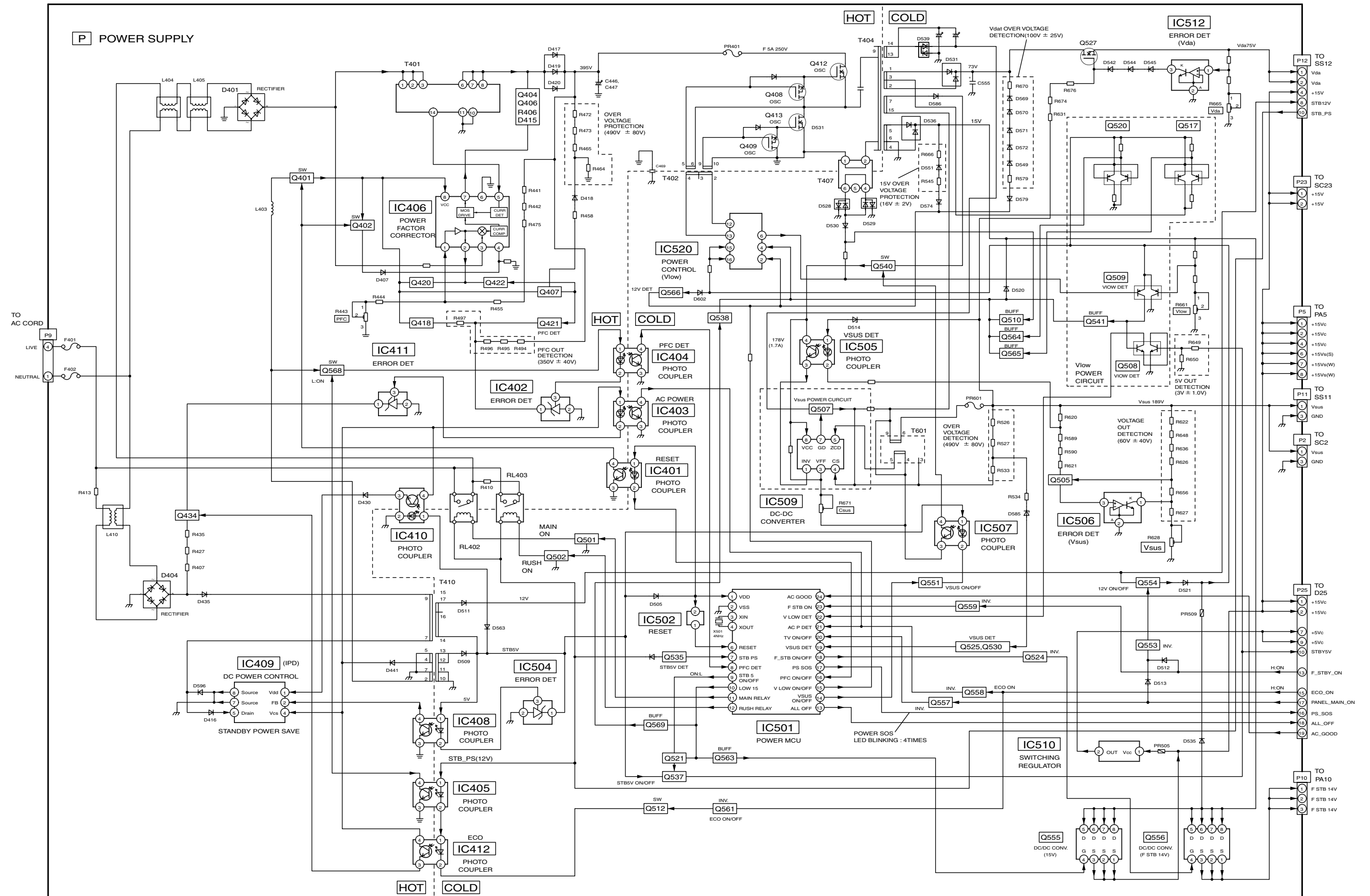
14.2. Main Block Diagram



TH-42PA60A/H/M/MT, TH-37PA60H/M Main Block Diagram

TH-42PA60A/H/M/MT, TH-37PA60H/M Main Block Diagram

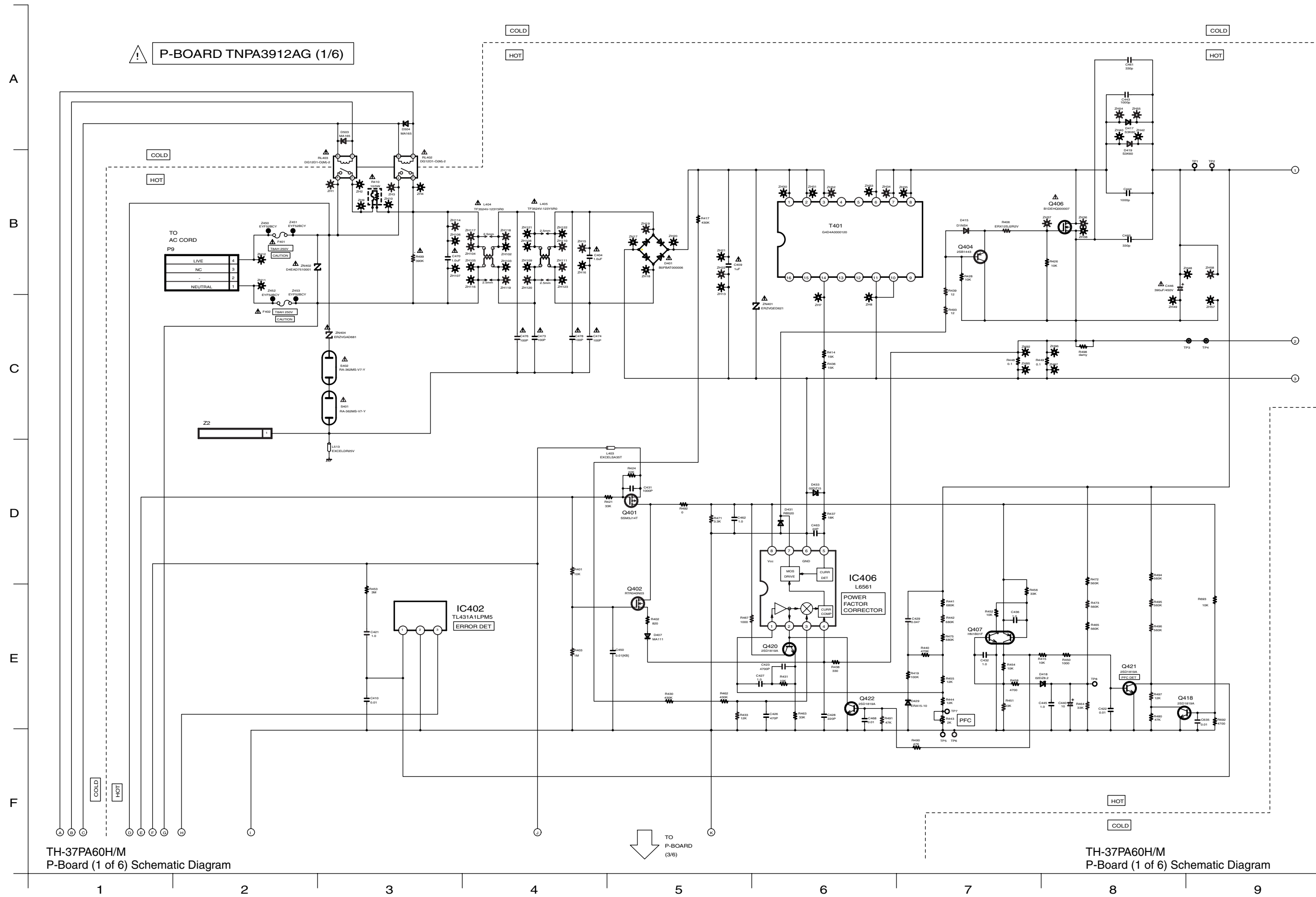
14.3. P-Board Block Diagram (37inch)



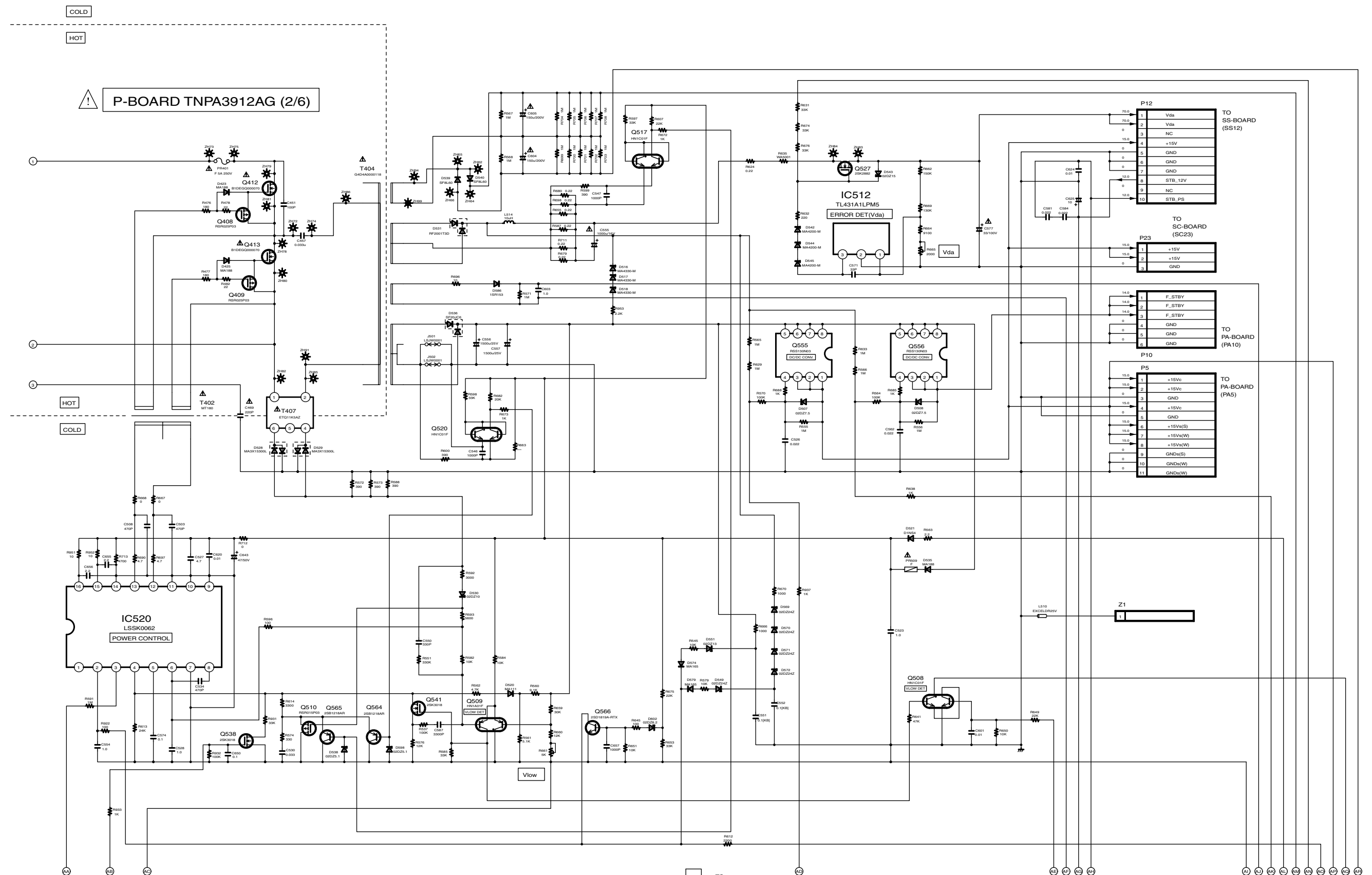
TH-37PA60H/M P-Board Block Diagram

TH-37PA60H/M P-Board Block Diagram

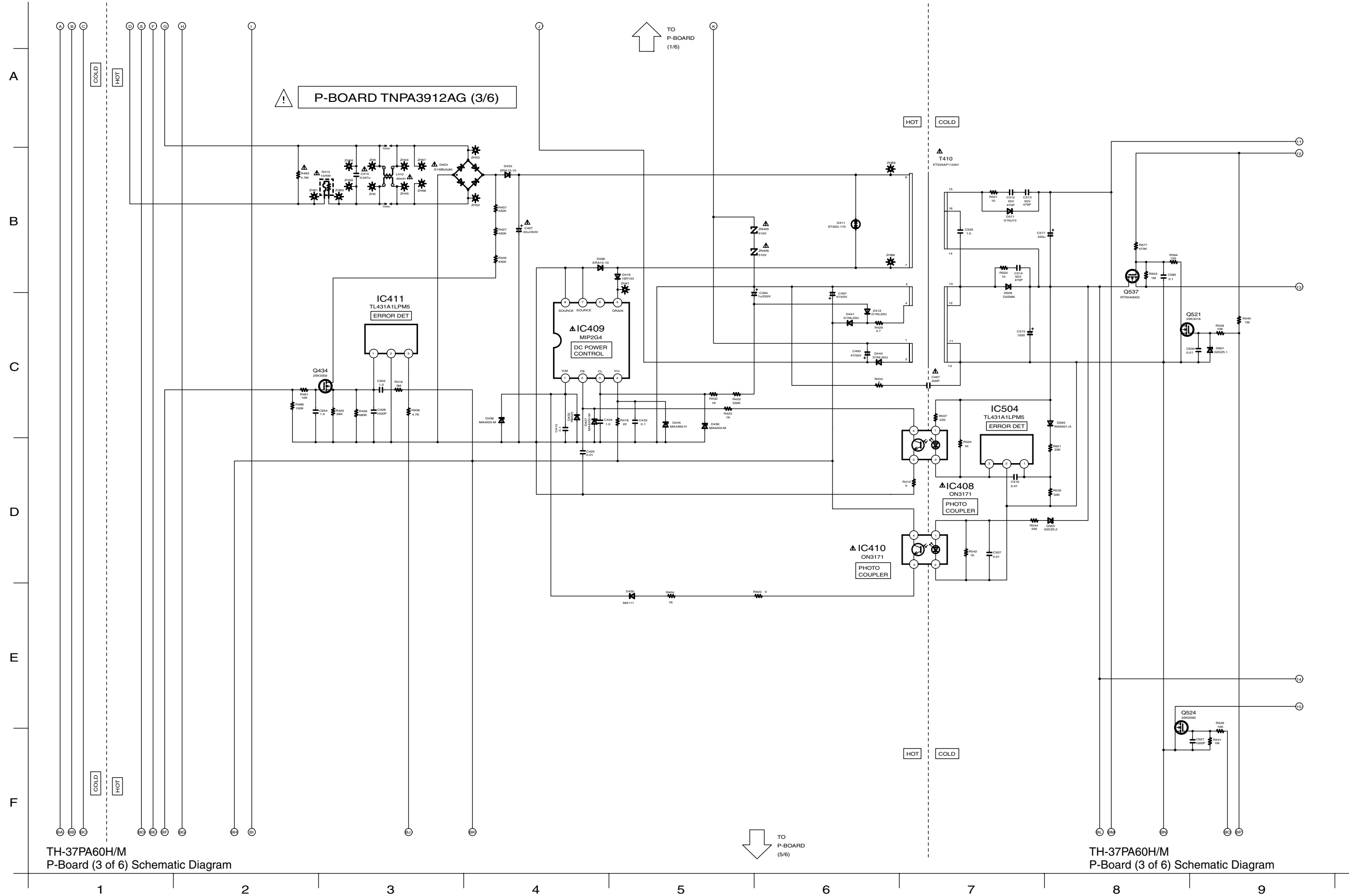
14.4. P-Board (1 of 6) Schematic Diagram (37inch)



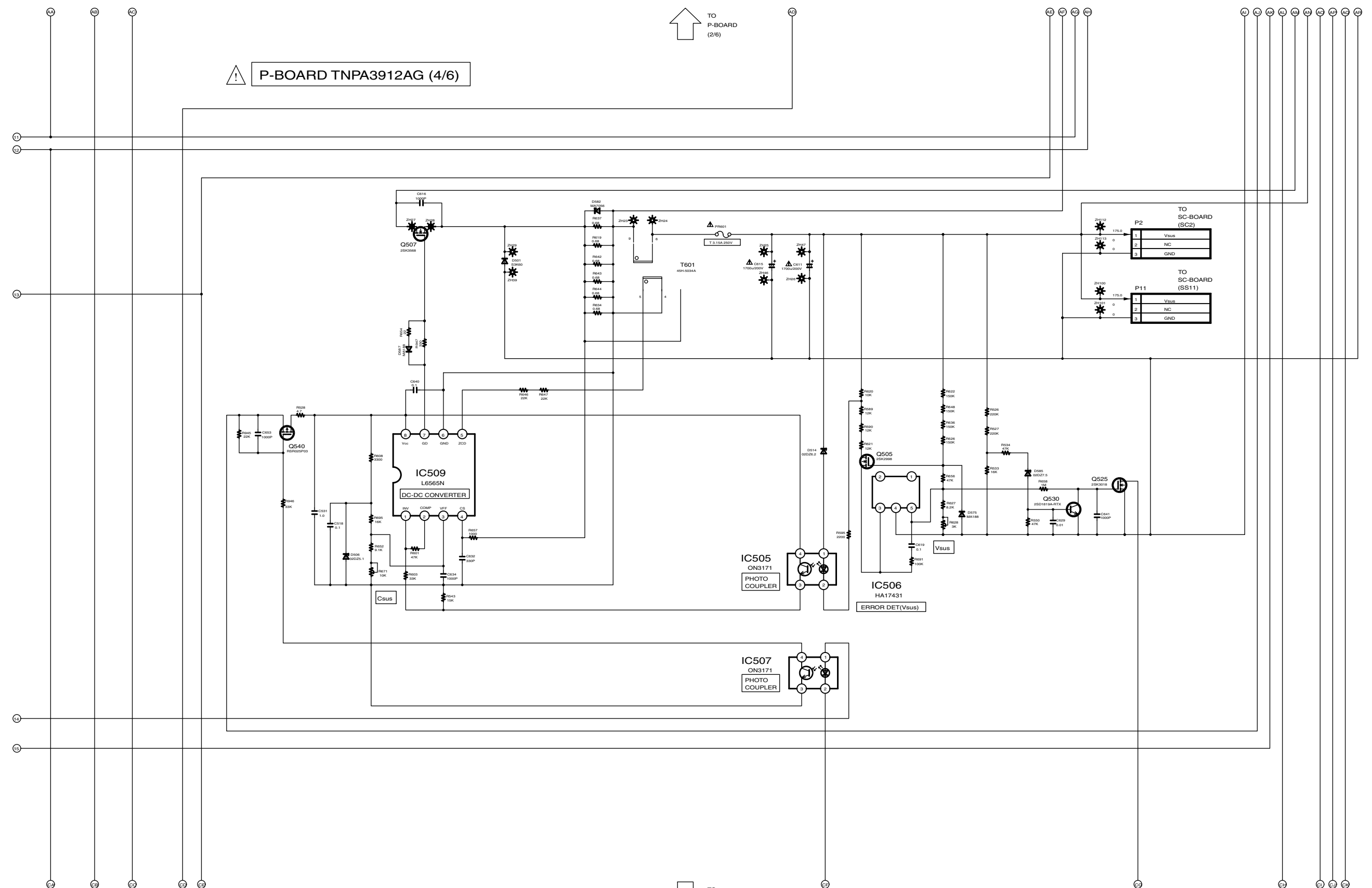
14.5. P-Board (2 of 6) Schematic Diagram (37inch)

TH-37PA60H/M
P-Board (2 of 6) Schematic DiagramTH-37PA60H/M
P-Board (2 of 6) Schematic Diagram

14.6. P-Board (3 of 6) Schematic Diagram (37inch)



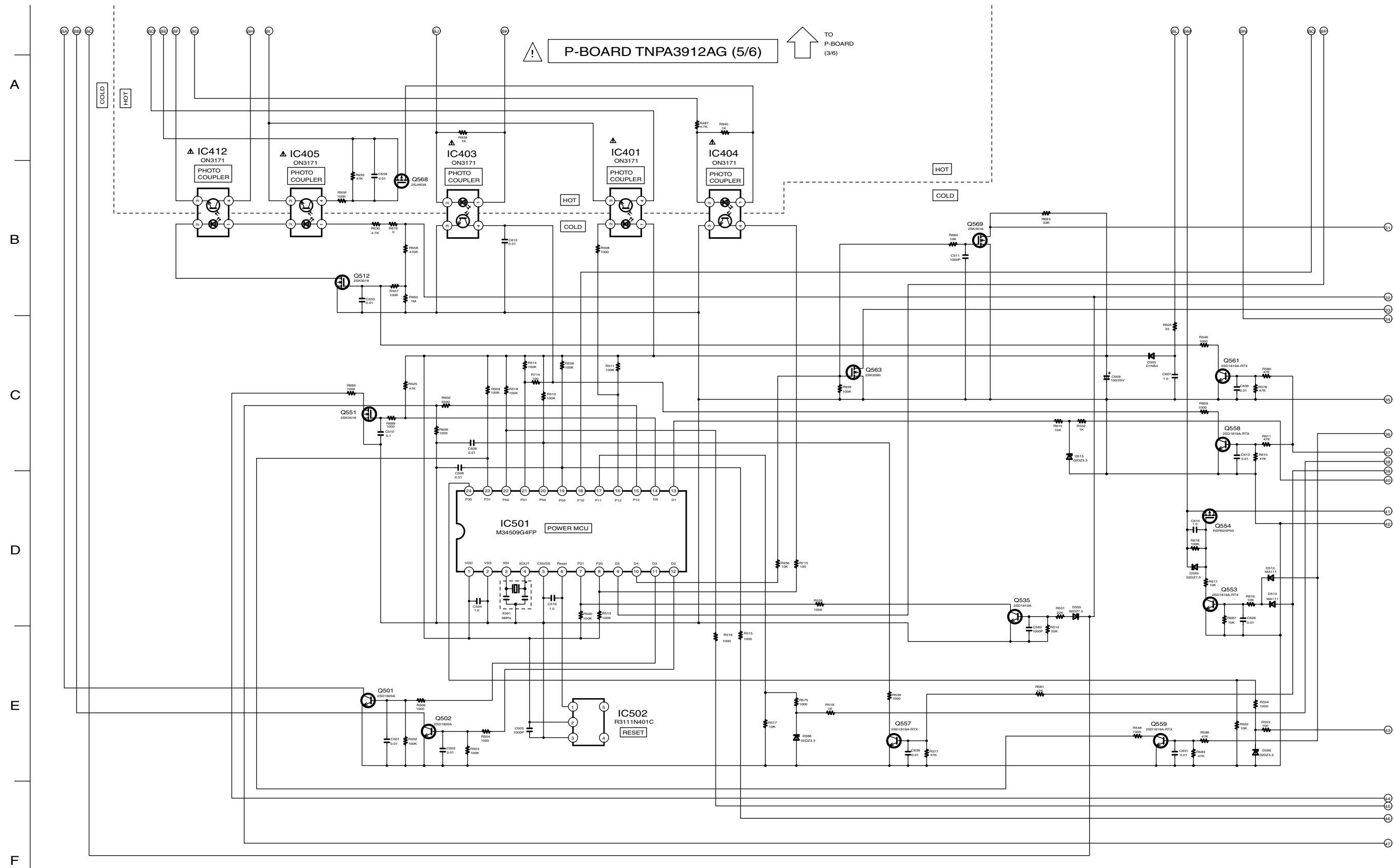
14.7. P-Board (4 of 6) Schematic Diagram (37inch)



TH-37PA60H/M
P-Board (4 of 6) Schematic Diagram

TH-37PA60H/M
P-Board (4 of 6) Schematic Diagram

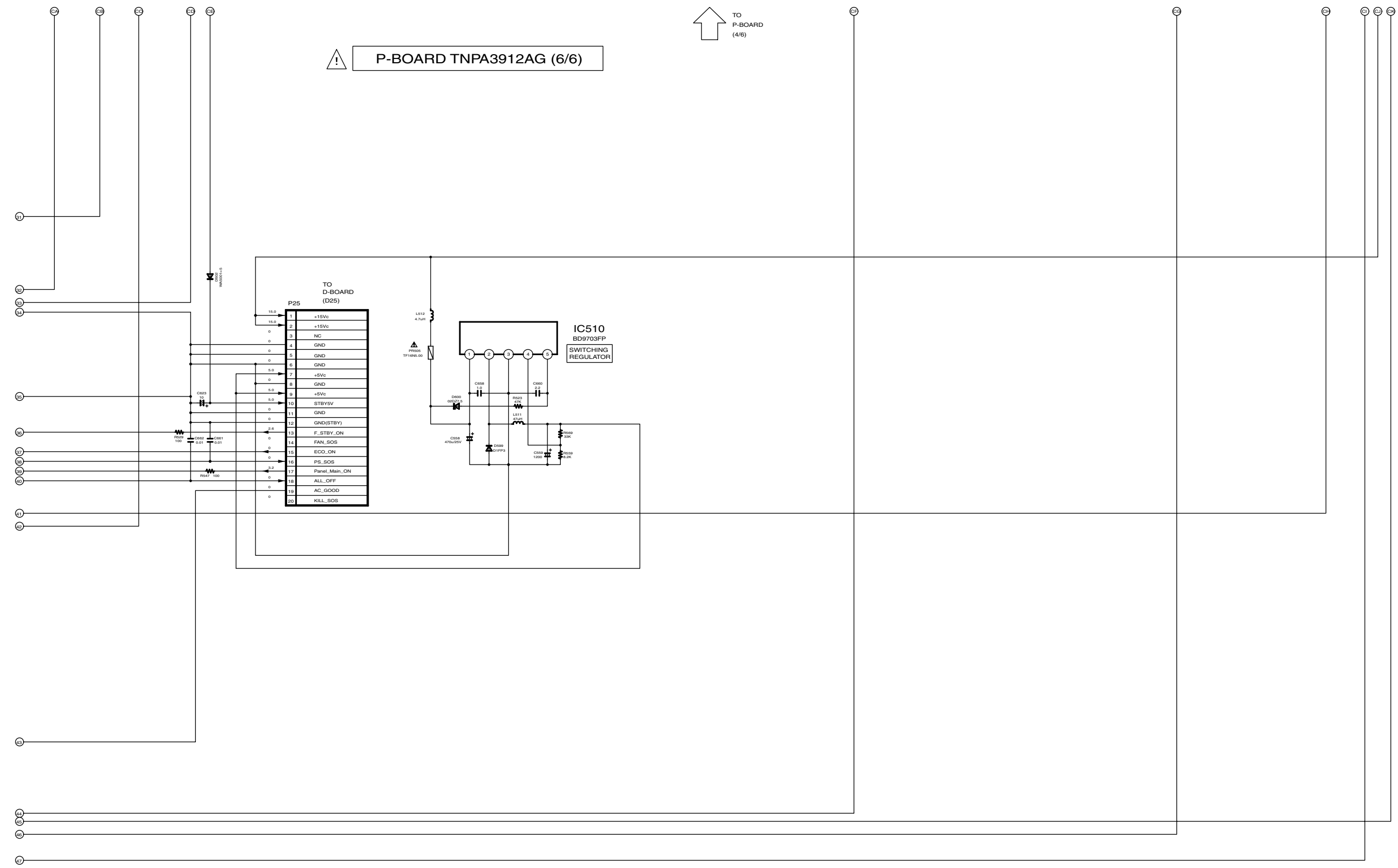
14.8. P-Board (5 of 6) Schematic Diagram (37inch)



TH-37PA60H/M
P-Board (5 of 6) Schematic Diagram

TH-37PA60H/M
P-Board (5 of 6) Schematic Diagram

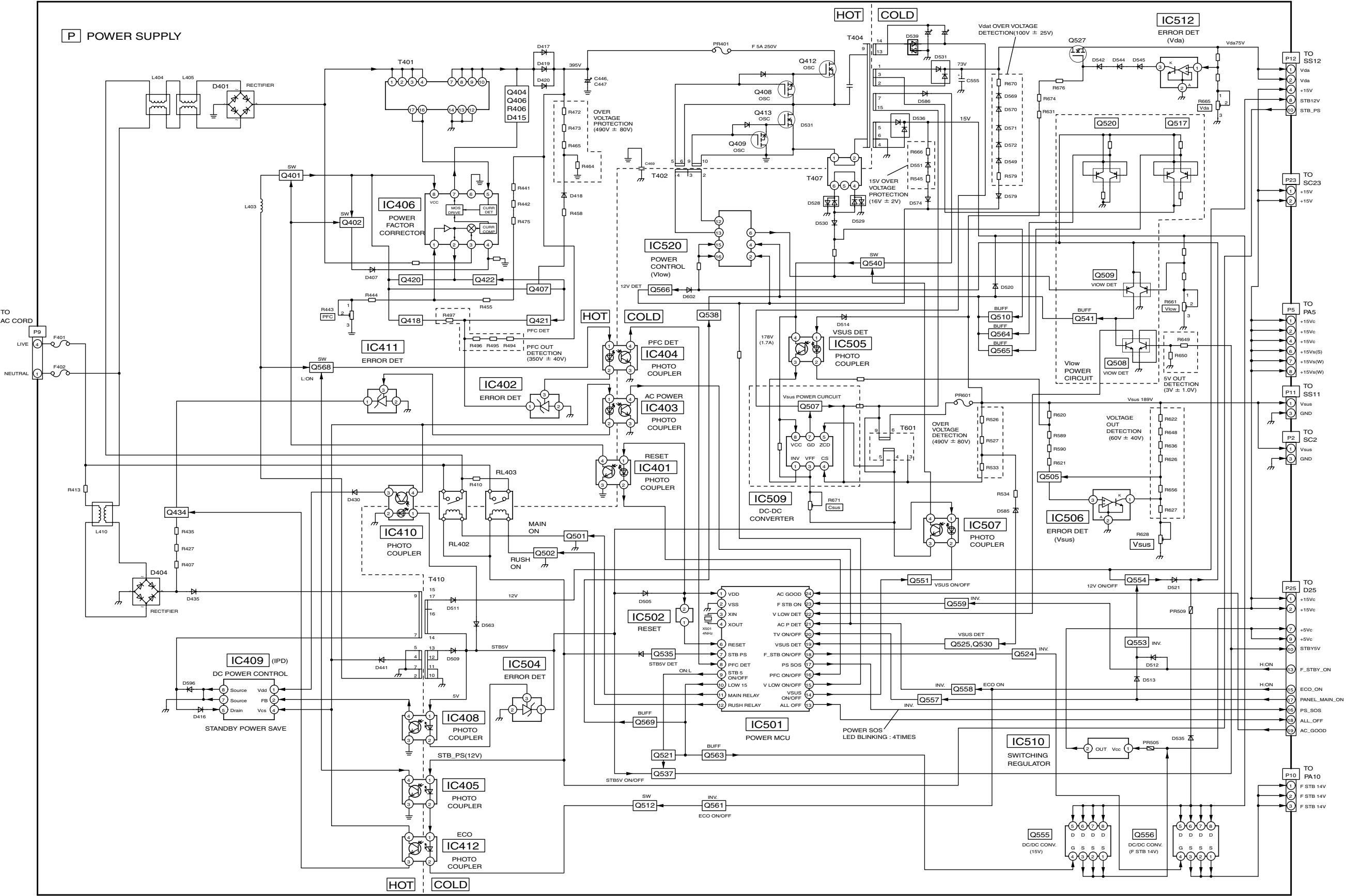
14.9. P-Board (6 of 6) Schematic Diagram (37inch)



TH-37PA60H/M
P-Board (6 of 6) Schematic Diagram

TH-37PA60H/M
P-Board (6 of 6) Schematic Diagram

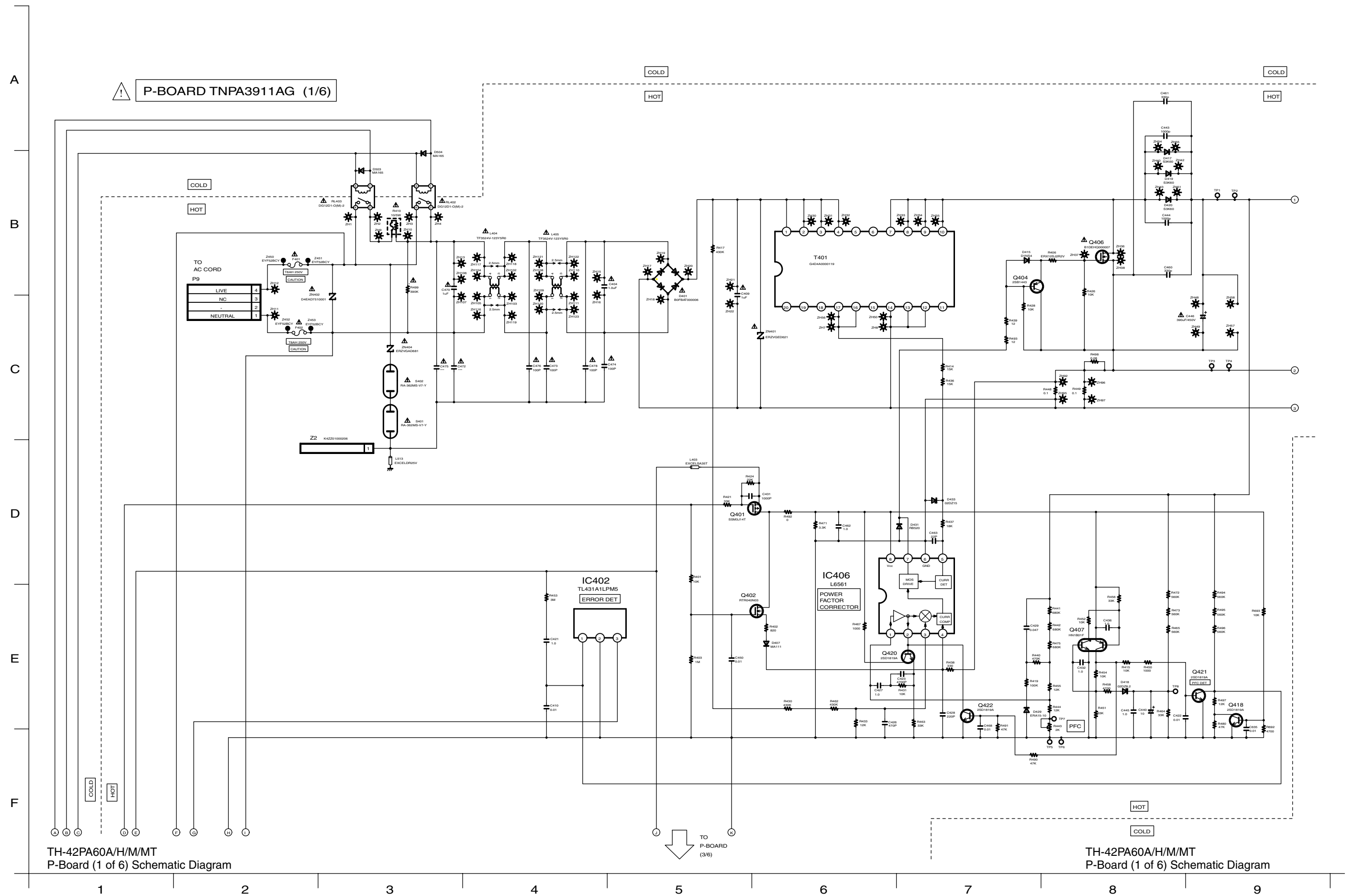
14.10. P-Board Block Diagram (42inch)



TH-42PA60A/H/M/MT
P-Board Block Diagram

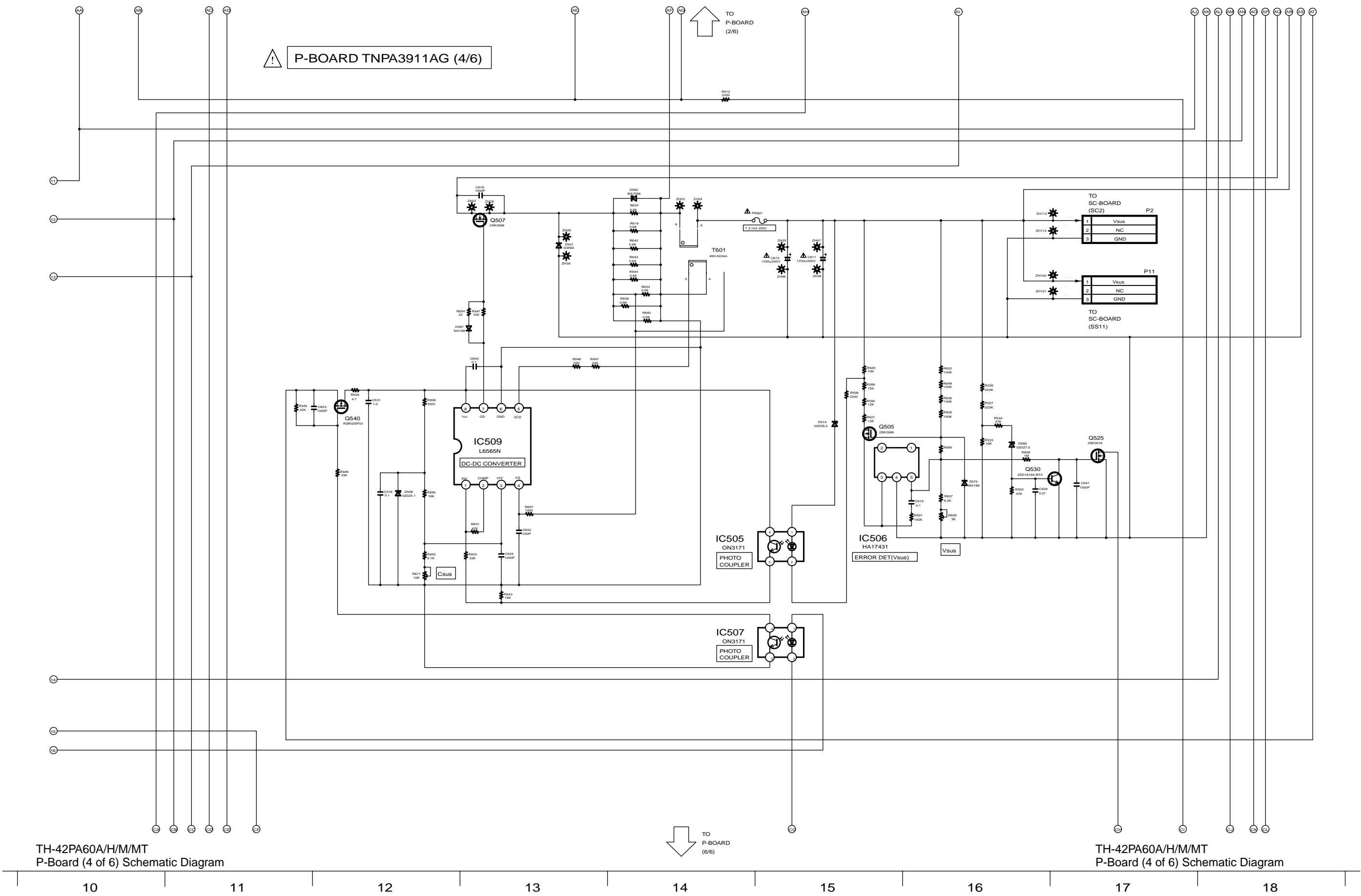
TH-42PA60A/H/M/MT
P-Board Block Diagram

14.11. P-Board (1 of 6) Schematic Diagram (42inch)

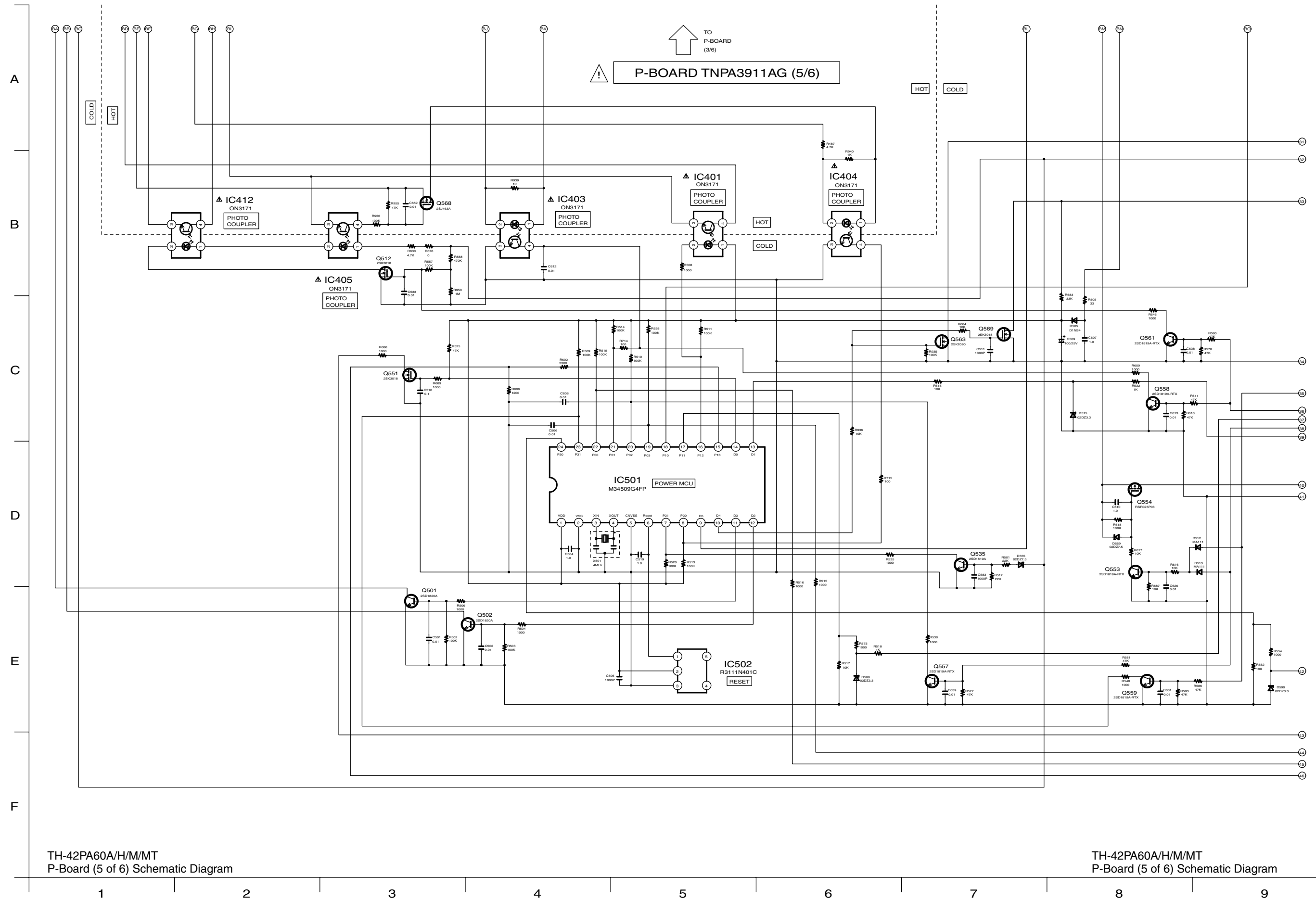




14.14. P-Board (4 of 6) Schematic Diagram (42inch)



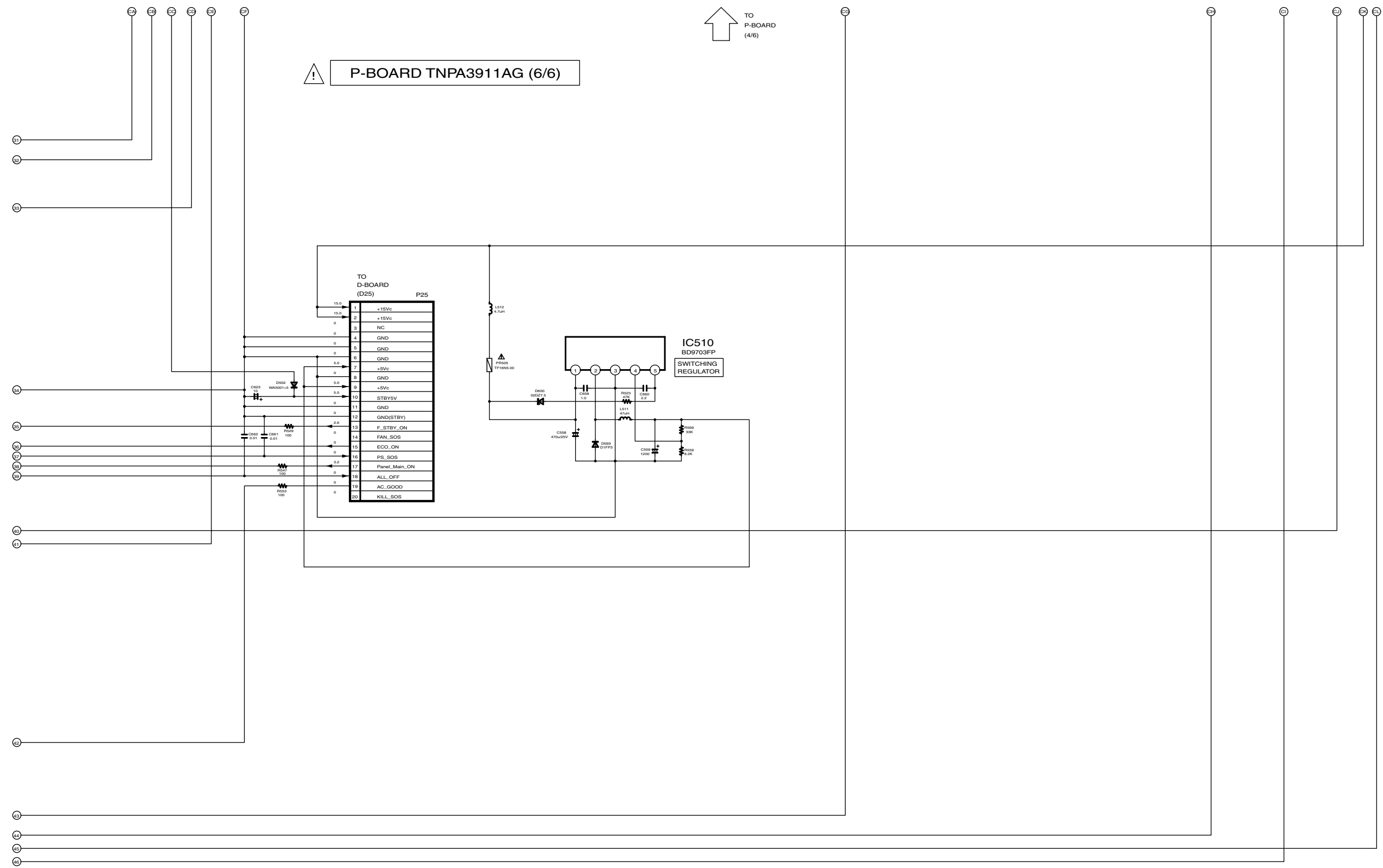
14.15. P-Board (5 of 6) Schematic Diagram (42inch)



TH-42PA60A/H/M/MT
P-Board (5 of 6) Schematic Diagram

TH-42PA60A/H/M/MT
P-Board (5 of 6) Schematic Diagram

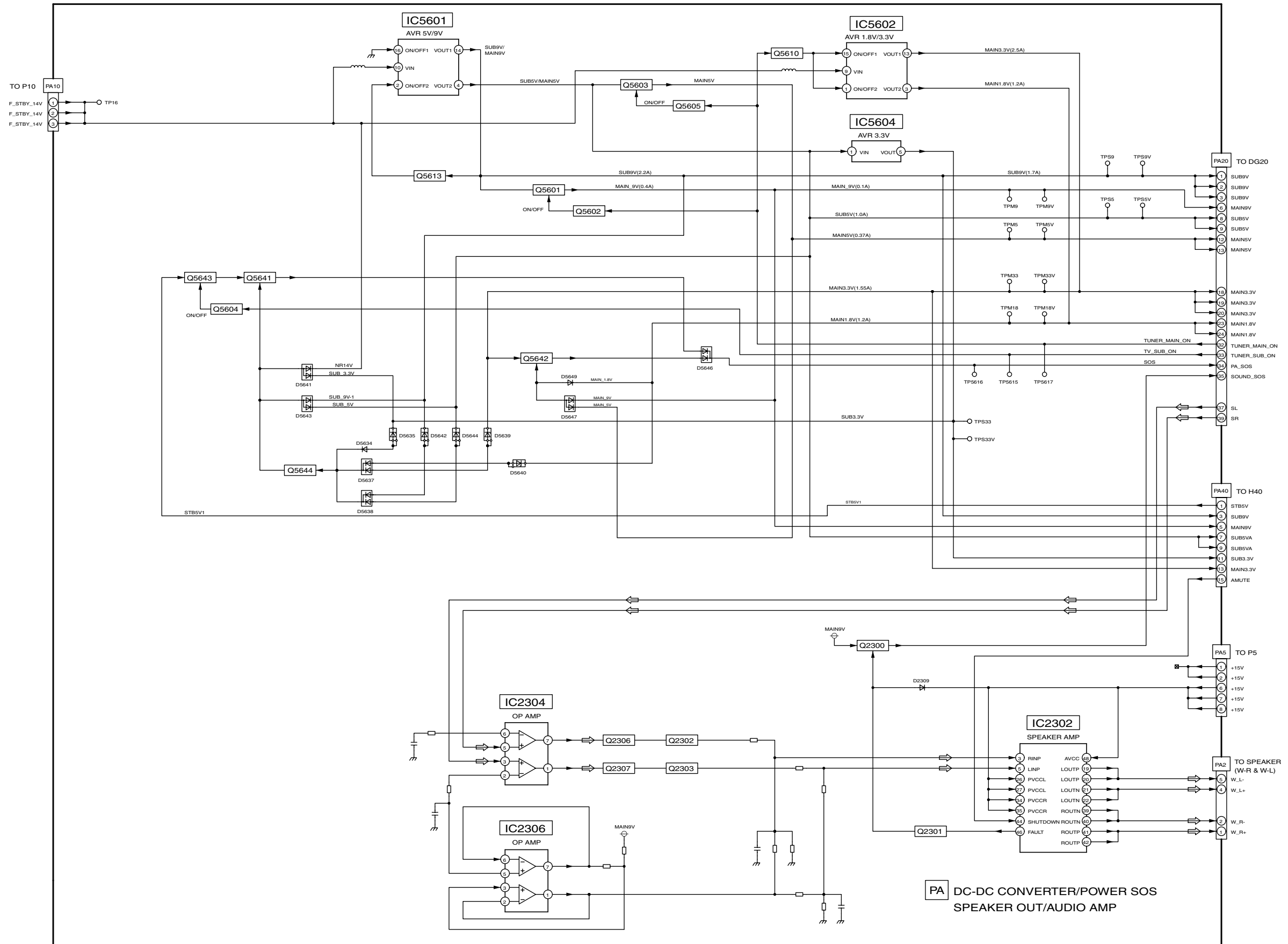
14.16. P-Board (6 of 6) Schematic Diagram (42inch)

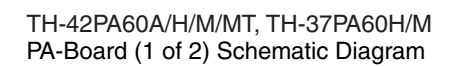


TH-42PA60A/H/M/MT
P-Board (6 of 6) Schematic Diagram

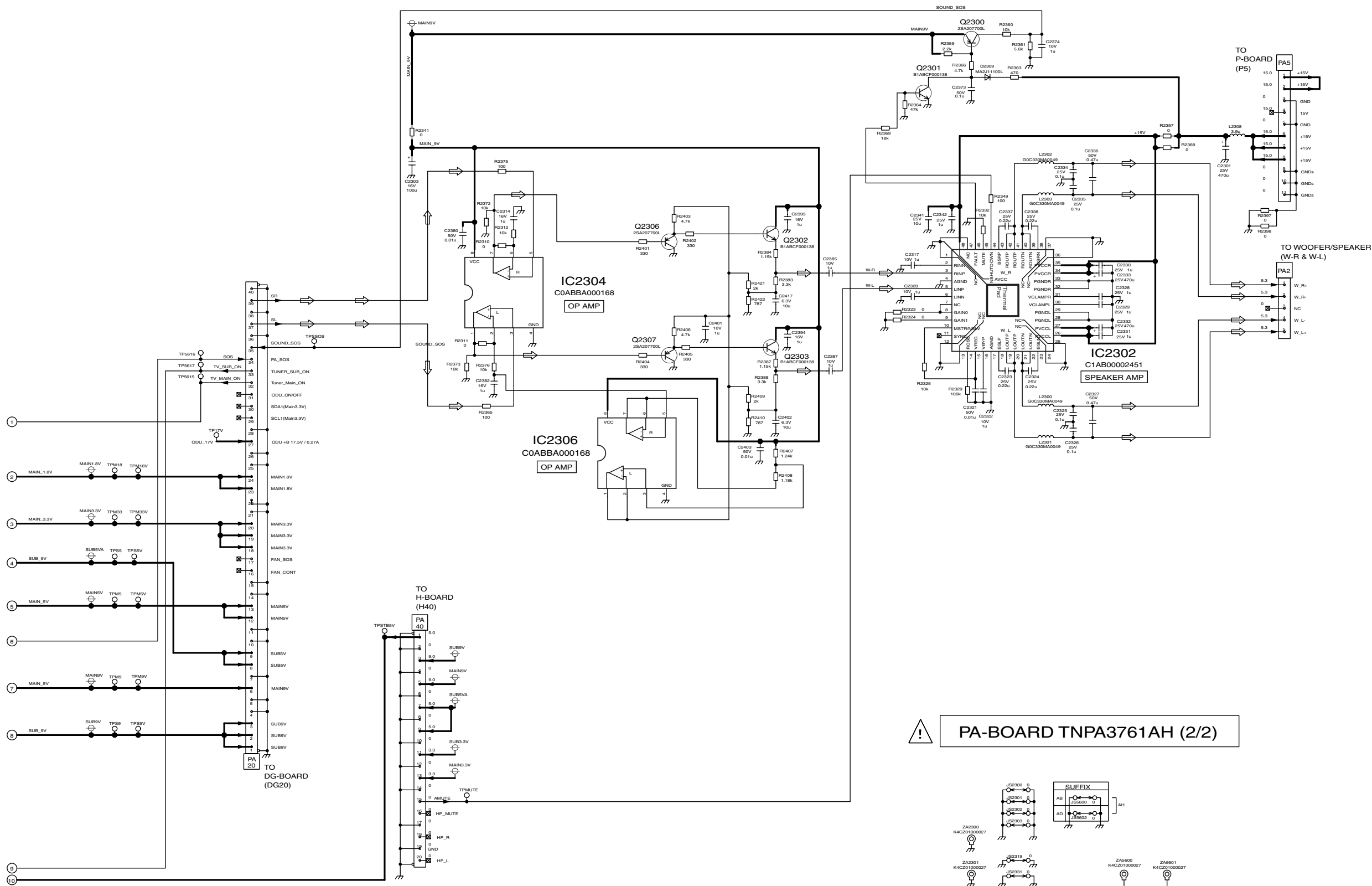
TH-42PA60A/H/M/MT
P-Board (6 of 6) Schematic Diagram

14.17. PA-Board Block Diagram

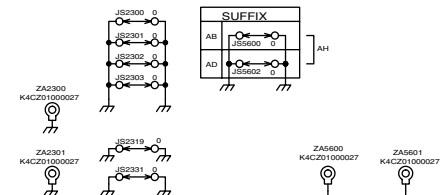




14.19. PA-Board (2 of 2) Schematic Diagram



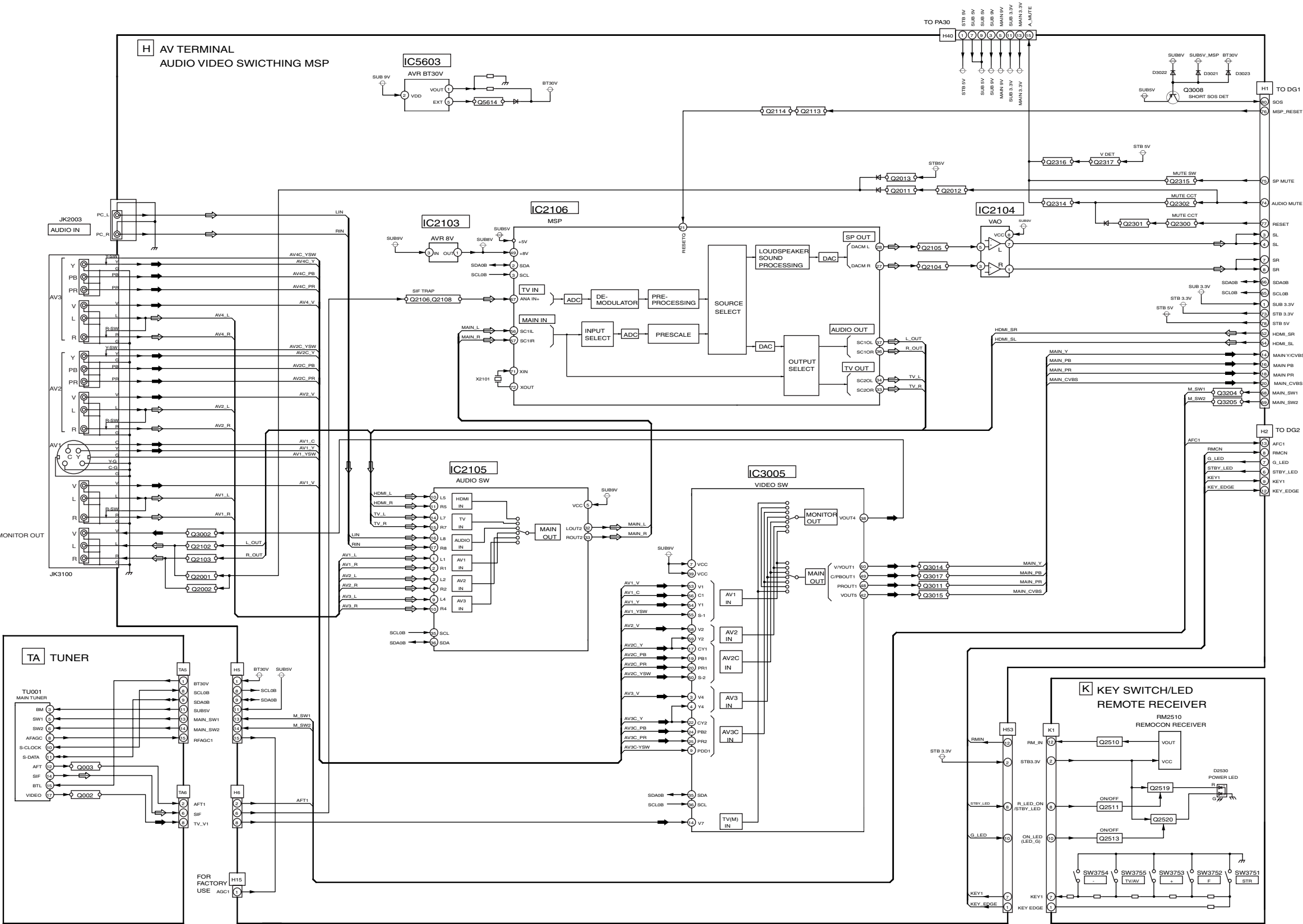
PA-BOARD TNPA3761AH (2/2)



TH-42PA60A/H/M/MT, TH-37PA60H/M
PA-Board (2 of 2) Schematic Diagram

TH-42PA60A/H/M/MT, TH-37PA60H/M
PA-Board (2 of 2) Schematic Diagram

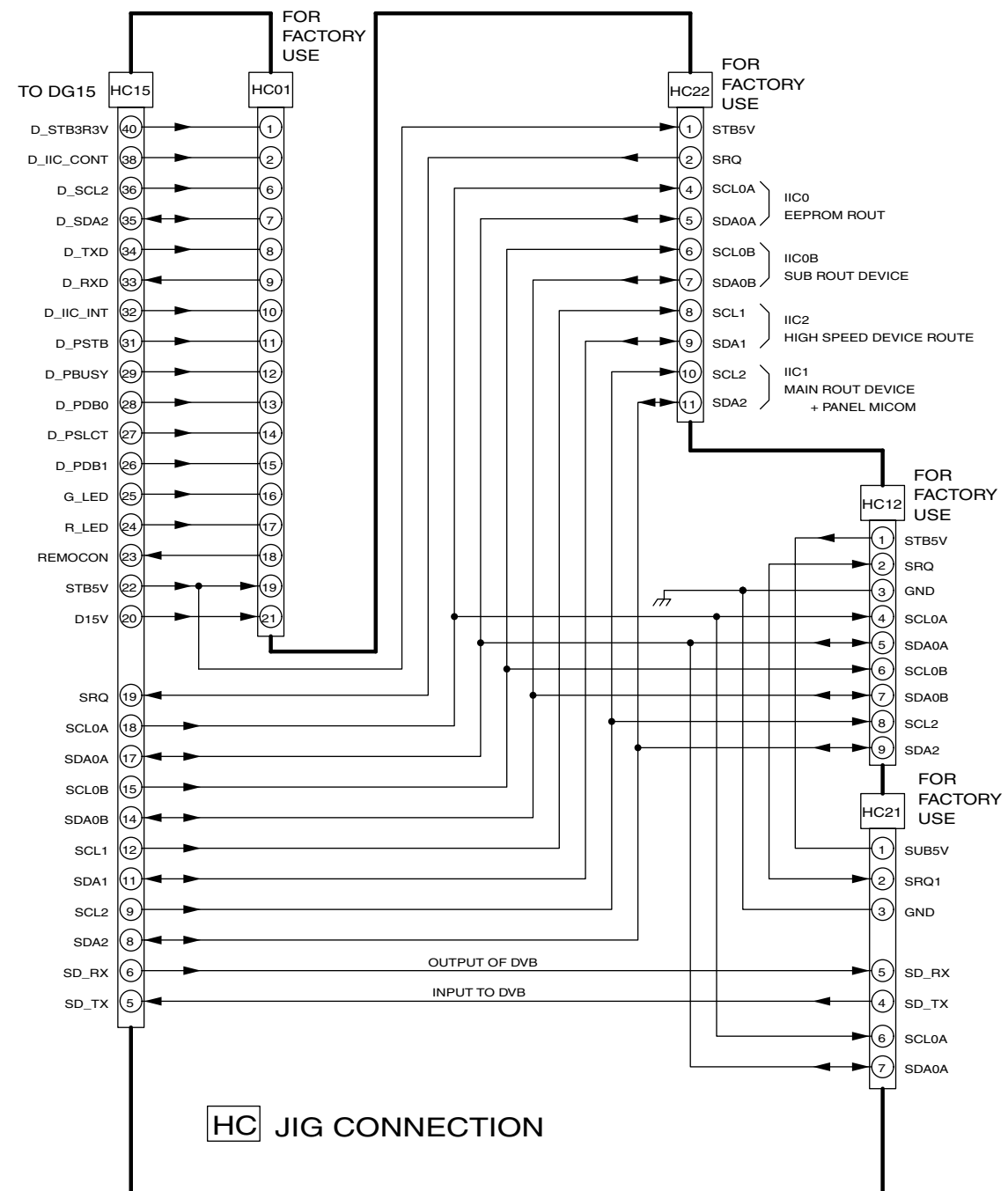
14.20. H, K and TA-Board Block Diagram



TH-42PA60A/H/M/MT, TH-37PA60H/M
H, K and TA-Board Block Diagram

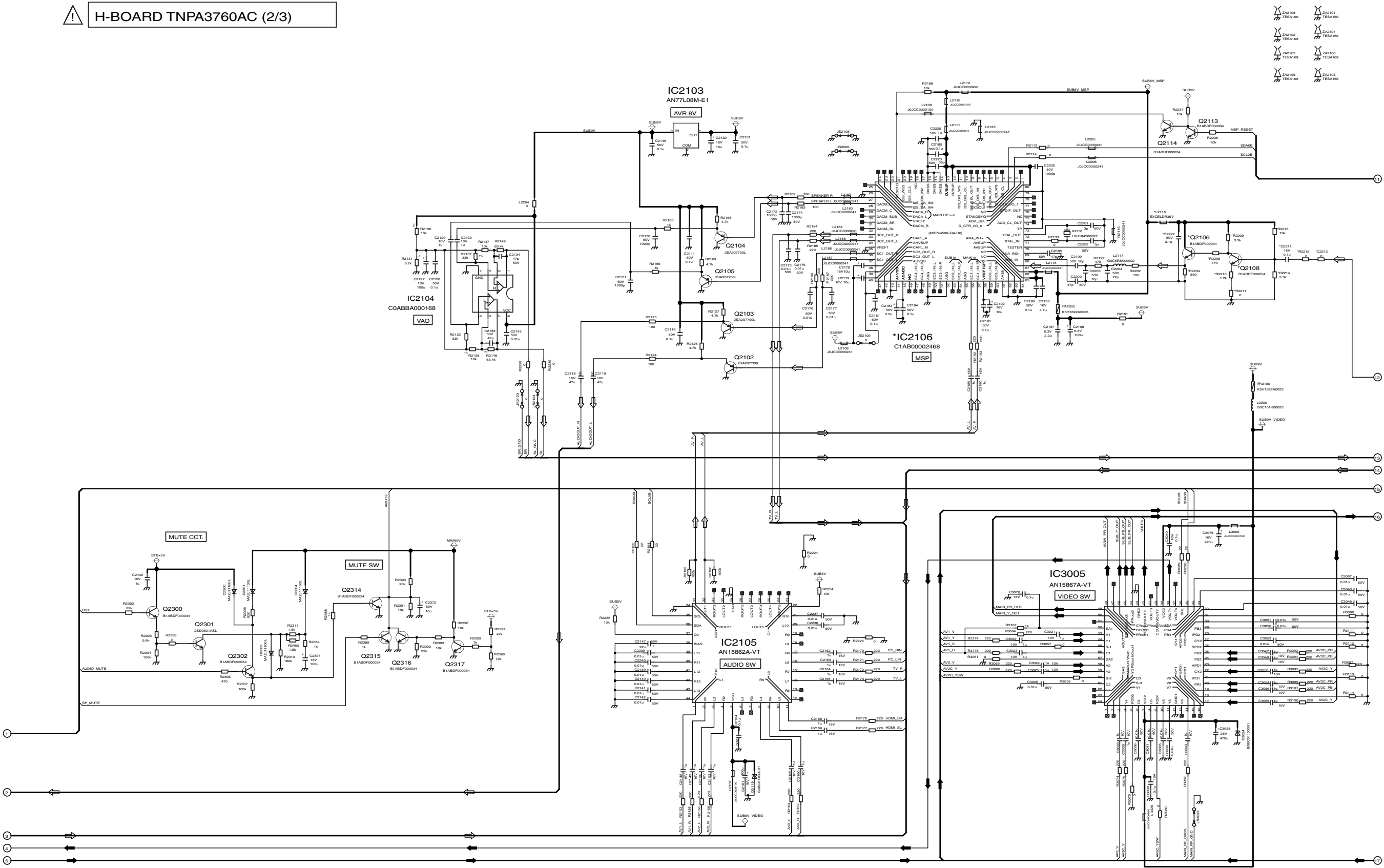
TH-42PA60A/H/M/MT, TH-37PA60H/M
H, K and TA-Board Block Diagram

14.21. HC-Board Block Diagram





14.23. H-Board (2 of 3) Schematic Diagram

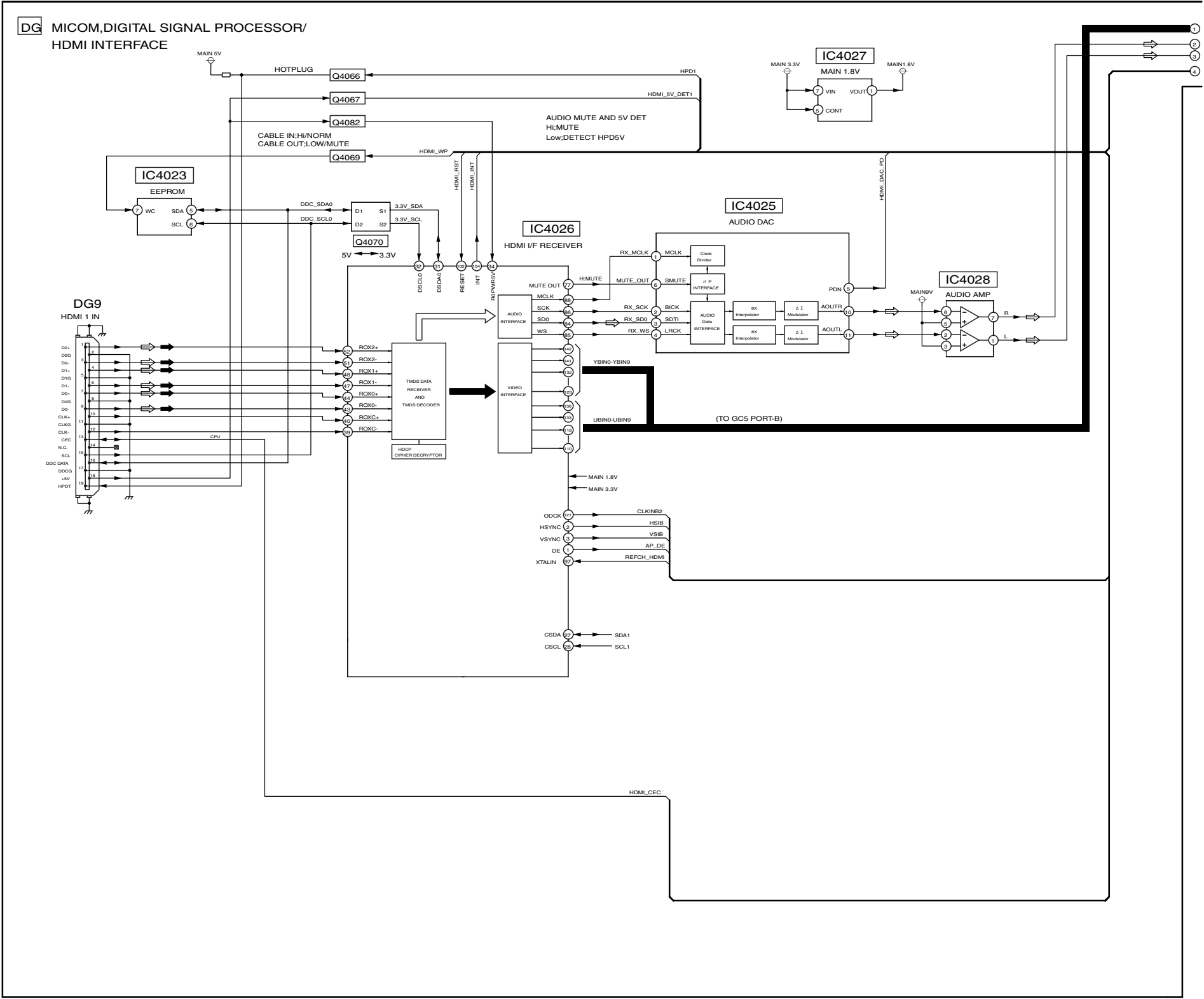


TH-42PA60A/H/M/MT, TH-37PA60H/M H-Board (2 of 3) Schematic Diagram

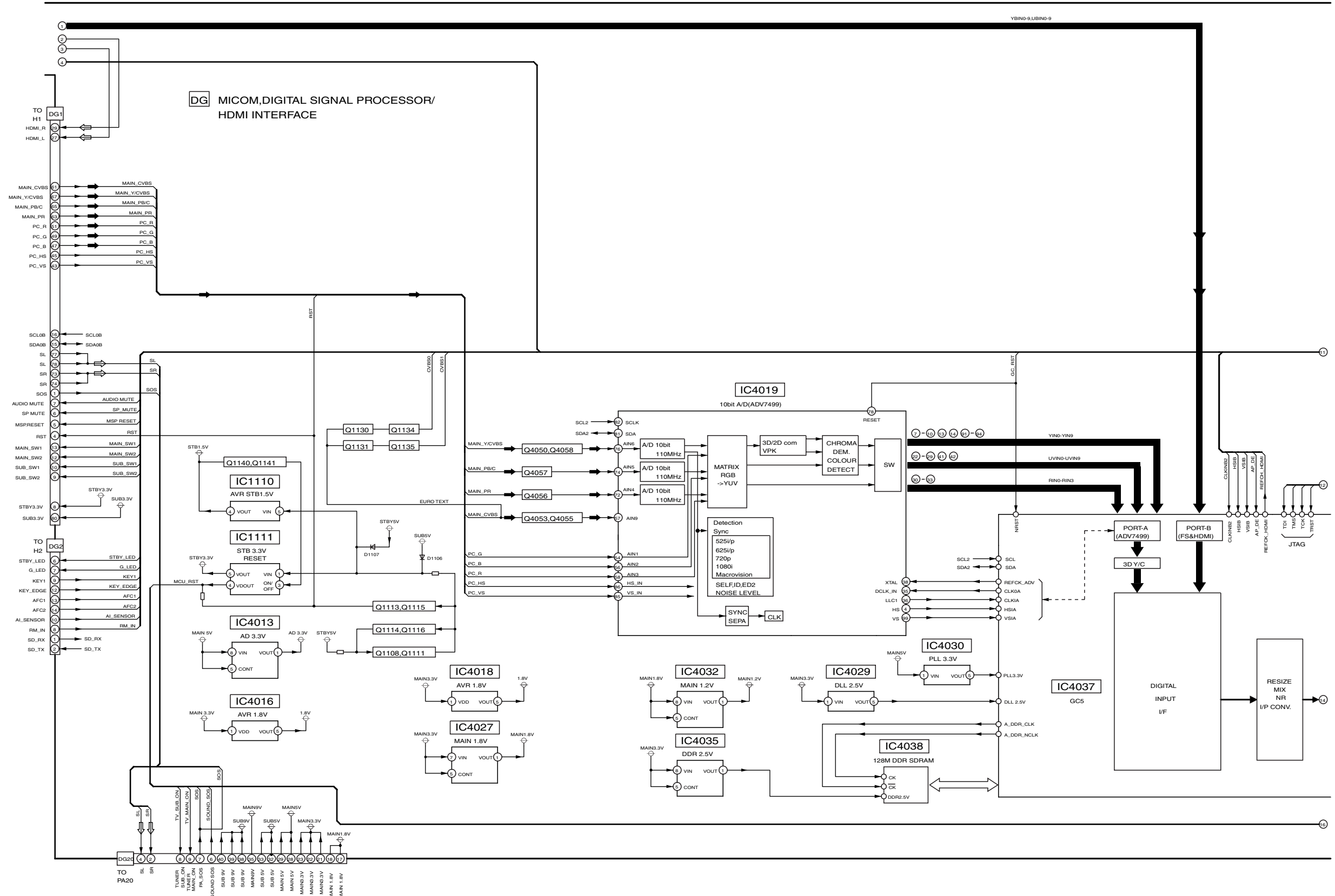
TH-42PA60A/H/M/MT, TH-37PA60H/M H-Board (2 of 3) Schematic Diagram



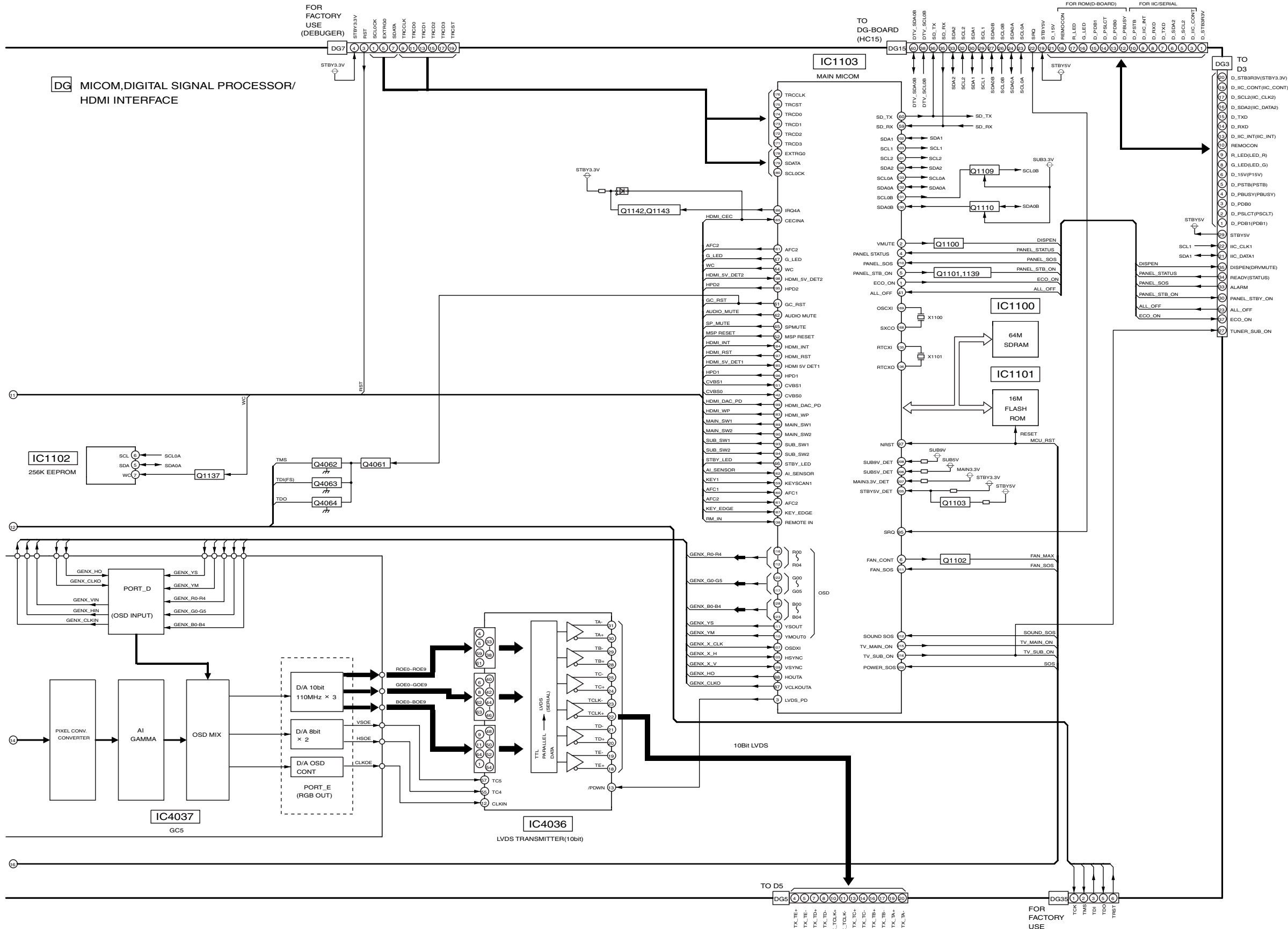
14.26. DG-Board (1 of 3) Block Diagram



14.27. DG-Board (2 of 3) Block Diagram

TH-42PA60A/H/M/MT, TH-37PA60H/M
DG-Board (2 of 3) Block DiagramTH-42PA60A/H/M/MT, TH-37PA60H/M
DG-Board (2 of 3) Block Diagram

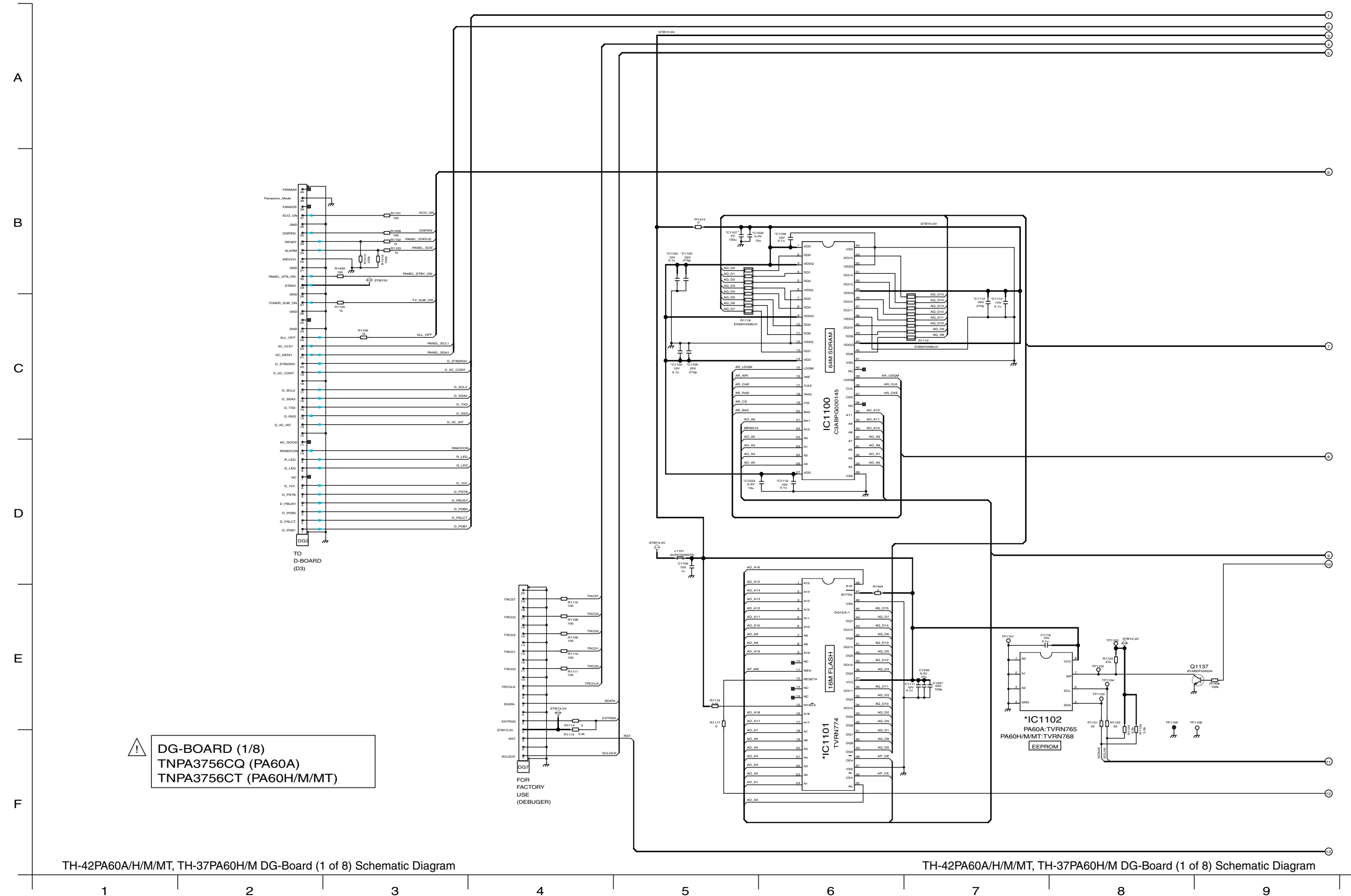
14.28. DG-Board (3 of 3) Block Diagram



TH-42PA60A/H/M/MT, TH-37PA60H/M
DG-BOARD (3 of 3) Block Diagram

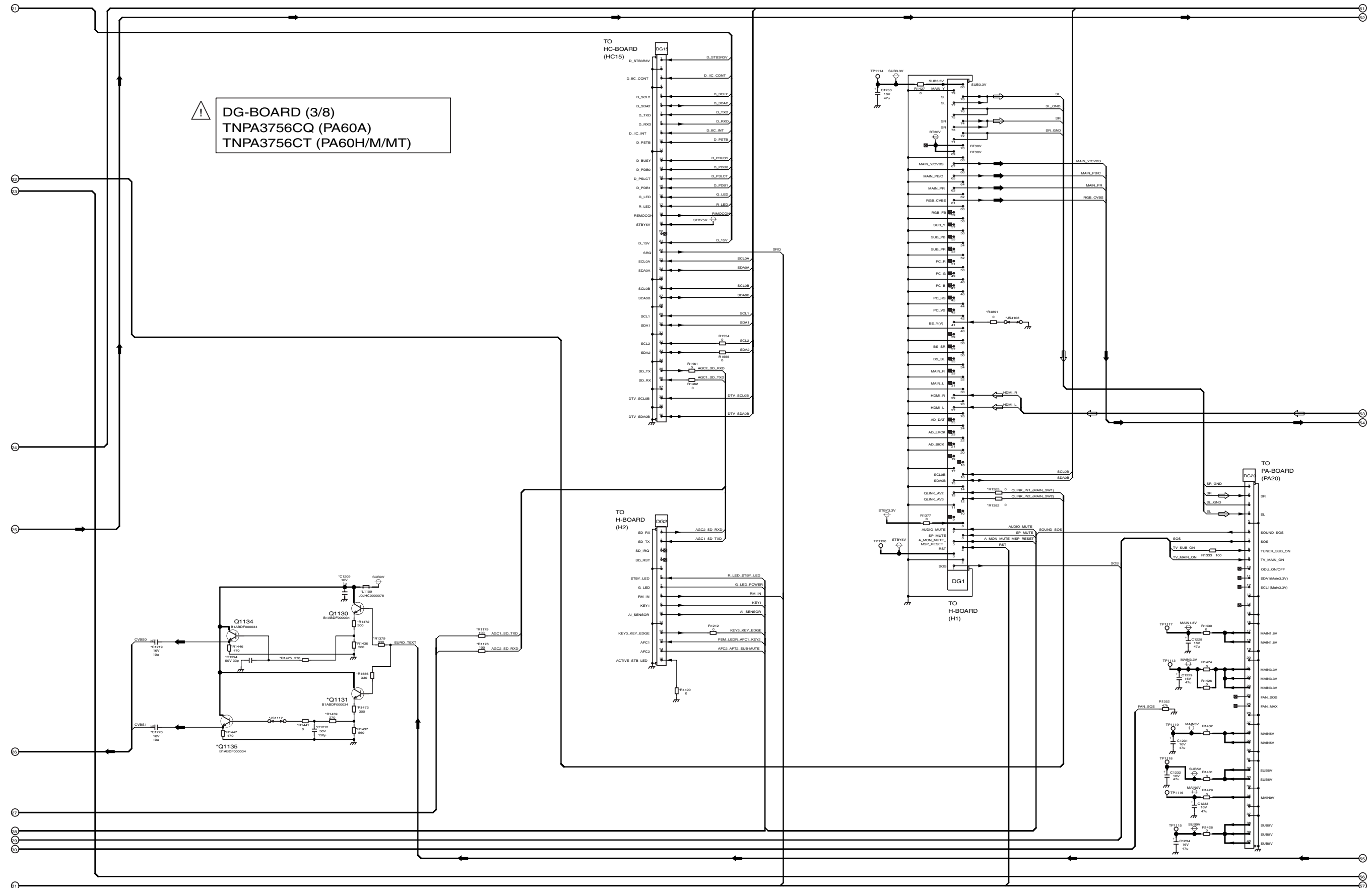
TH-42PA60A/H/M/MT, TH-37PA60H/M
DG-BOARD (3 of 3) Block Diagram

14.29. DG-Board (1 of 8) Schematic Diagram





14.31. DG-Board (3 of 8) Schematic Diagram



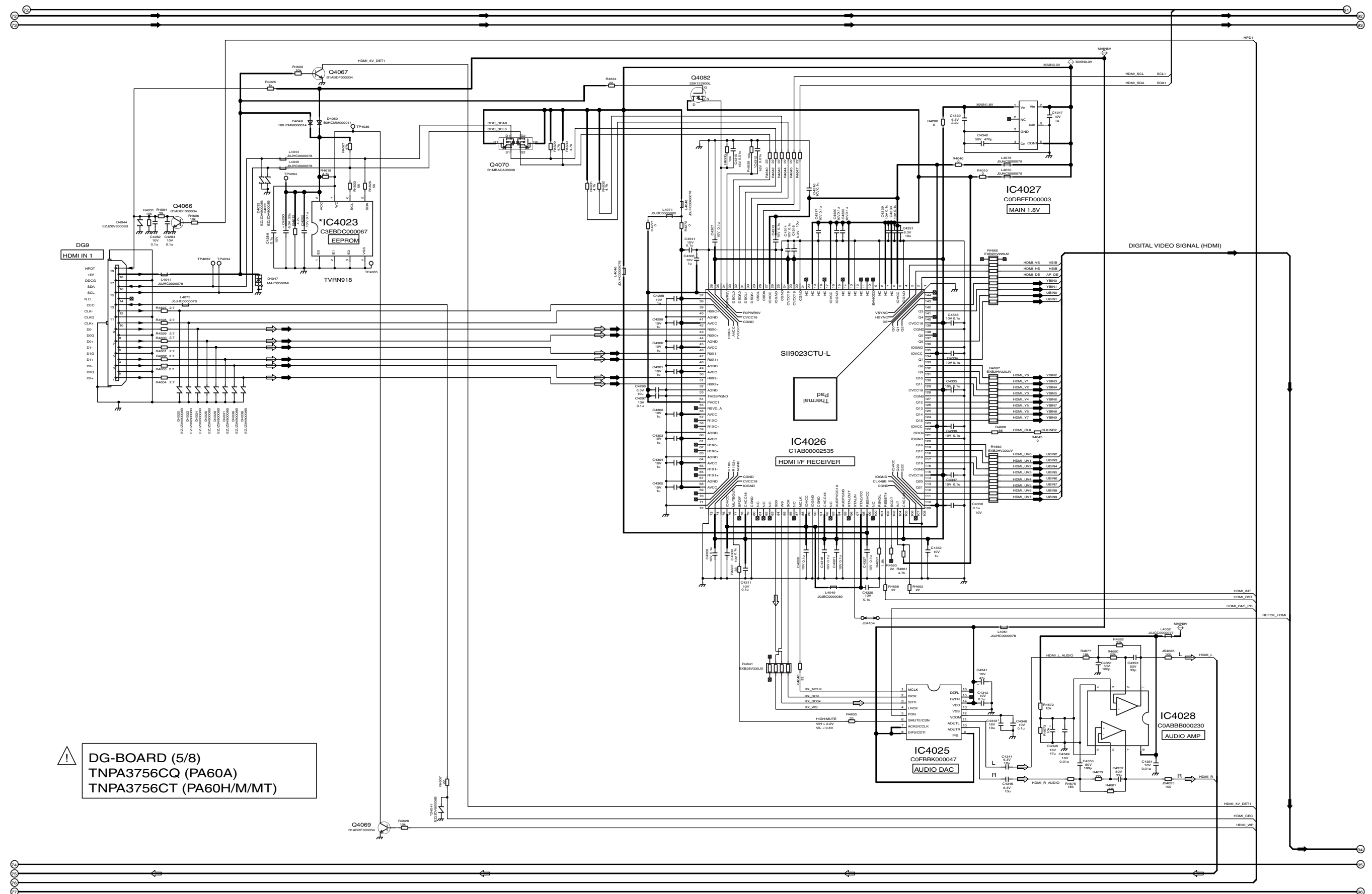
TH-42PA60A/H/M/MT, TH-37PA60H/M DG-Board (3 of 8) Schematic Diagram

TH-42PA60A/H/M/MT, TH-37PA60H/M DG-Board (3 of 8) Schematic Diagram



TH-42PA60A/H/M/MT, TH-37PA60H/M DG-Board (4 of 8) Schematic Diagram

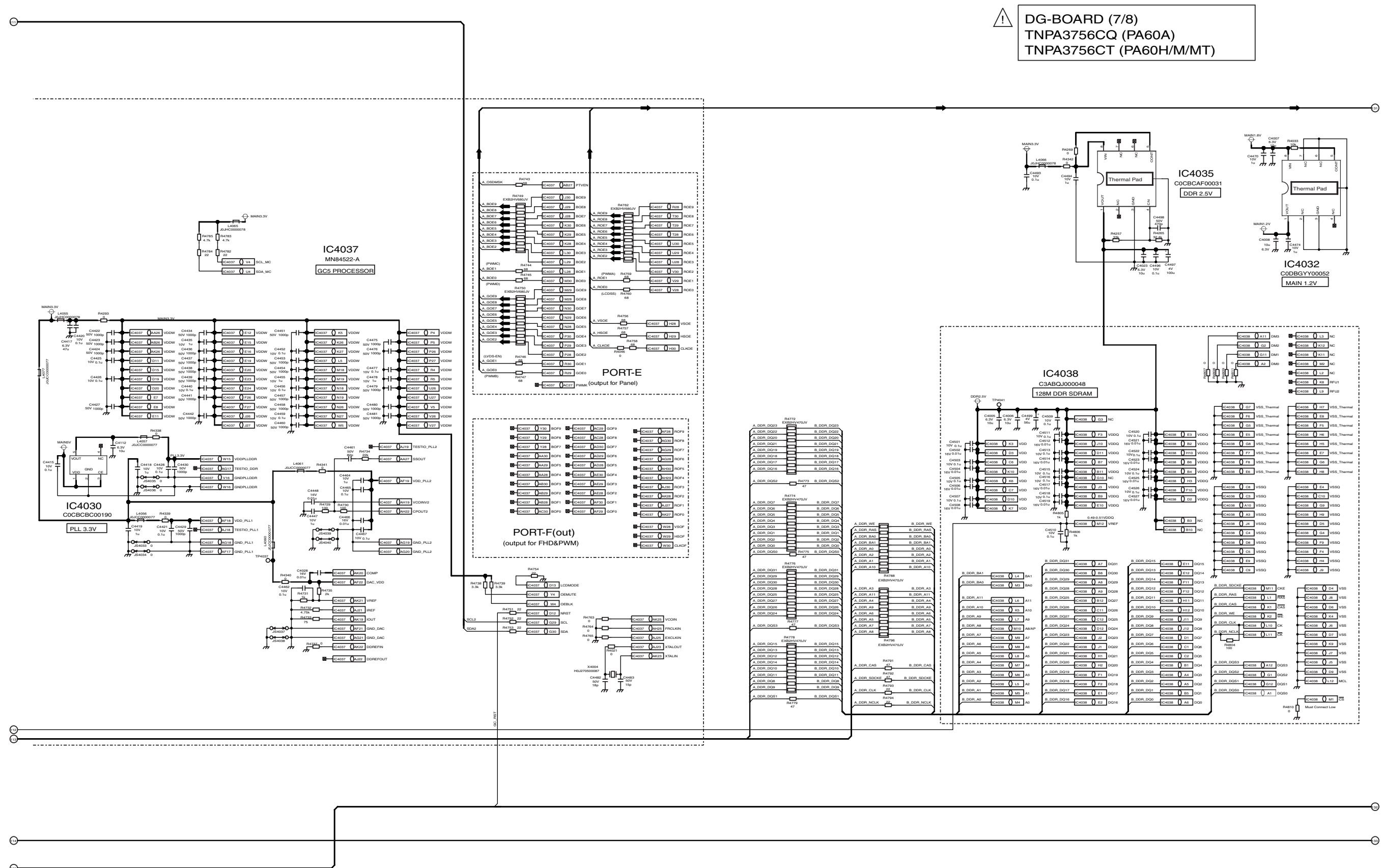
14.33. DG-Board (5 of 8) Schematic Diagram



TH-42PA60A/H/M/MT, TH-37PA60H/M DG-Board (5 of 8) Schematic Diagram

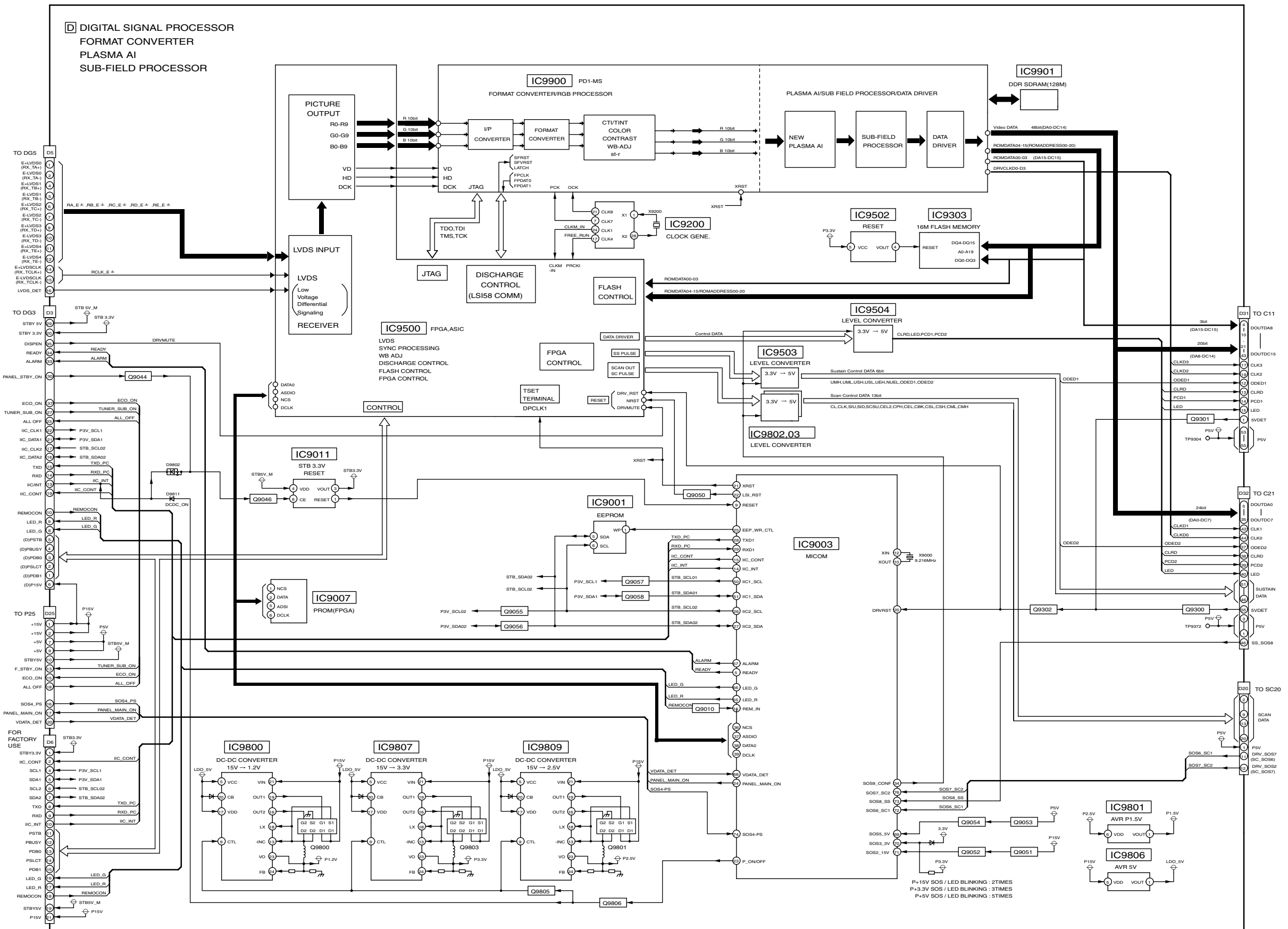
TH-42PA60A/H/M/MT, TH-37PA60H/M DG-Board (5 of 8) Schematic Diagram

14.35. DG-Board (7 of 8) Schematic Diagram



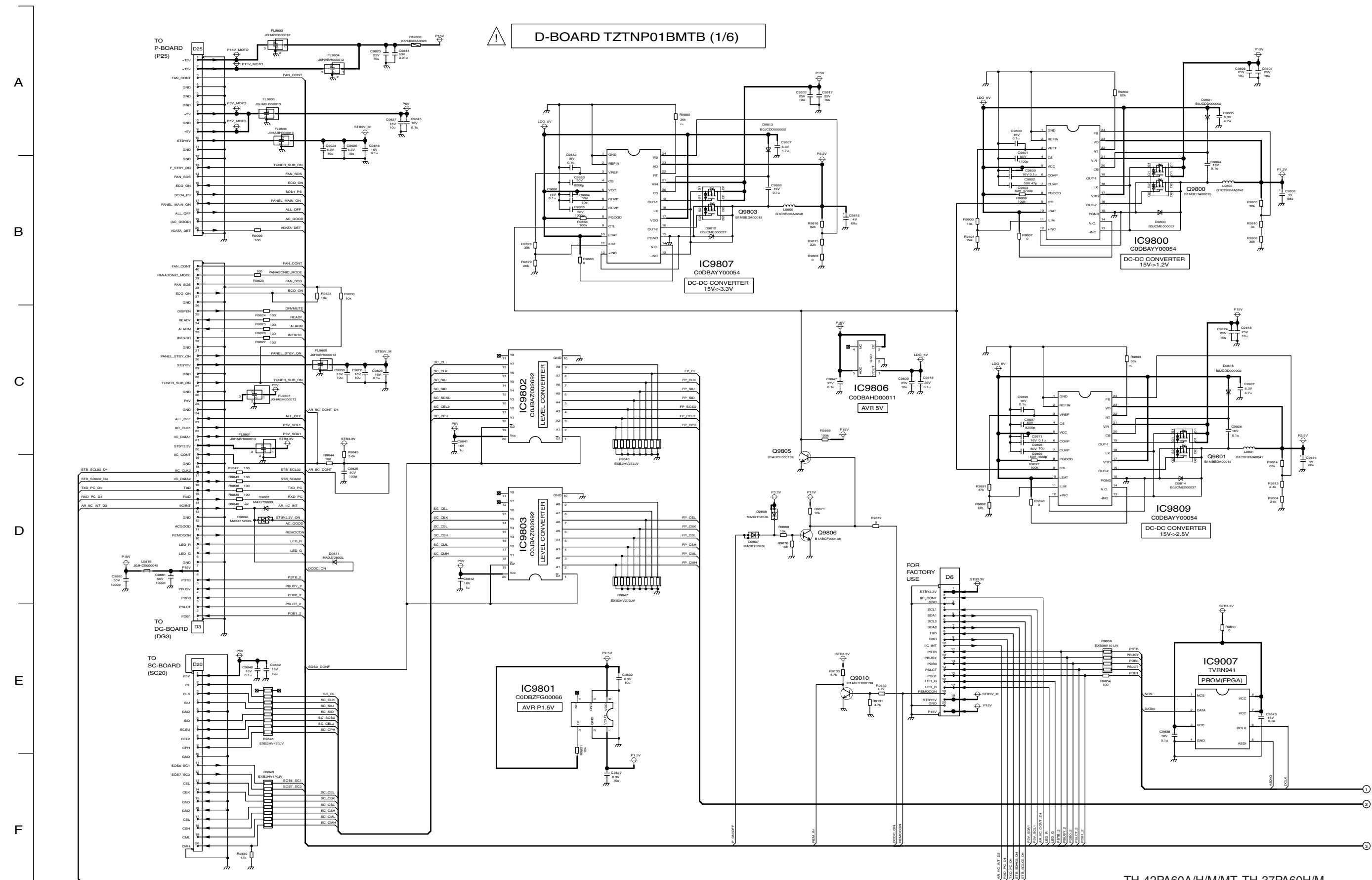


14.37. D-Board Block Diagram



TH-42PA60A/H/M/MT, TH-37PA60H/M D-Board Block Diagram

TH-42PA60A/H/M/MT, TH-37PA60H/M
D-Board Block Diagram



TH-42PA60A/H/M/MT, TH-37PA60H/M
D-Board (1 of 6) Schematic Diagram

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