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Blu-ray Disc Player

Chassis : MIDAS

BASIC : BD-C5500

**Application Model
: BD-C5300**

Application Area

: XEF, XEN, XEU, XEE, EDC

SERVICE MANUAL

BD-C5300

SERVICE Manual

Blu-Ray Disc Player



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- 2. Product Specification
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3. Disassembly and Reassembly

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3-1 Cabinet and PCB

CAUTION : Connector Must be removed with care

* SCREW SIZE INFORMATION

(M)	1.7 X 4	(B)
(SCREW TYPE)	(SCREW SIZE)	(SCREW COLOR)
M : MACHINE T : TAPTYPE	M1.7 x L9	B : Black W : White S : Silver

3-1-1 Top Cabinet Removal

- 1) Remove 3 Screws ❶.
- 2) Lift up the Top Cabinet ❷ in direction of arrow.

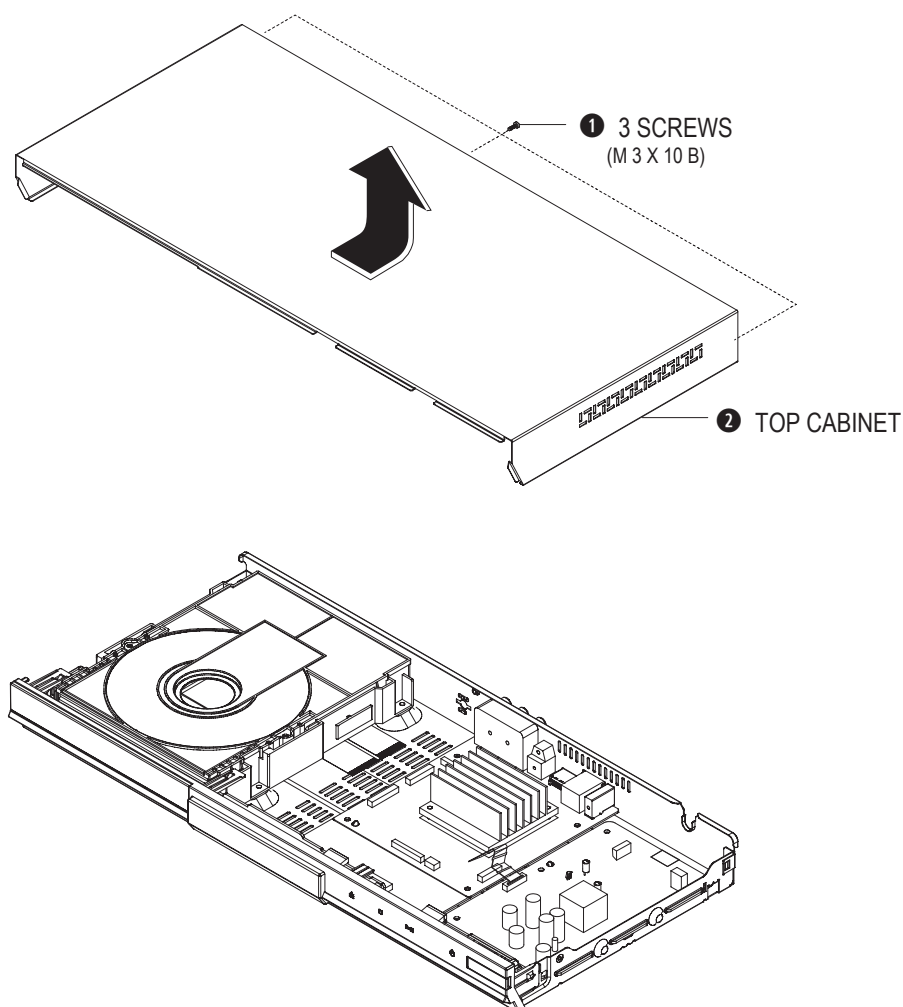


Fig. 3-1 Top Cabinet Removal

3-1-2 Ass'y Front-Cabinet Removal

- 1) Remove FFC Cable ❶ from the Main PCB.
- 2) Remove 7 Hooks ❷, ❸, ❹, ❺ and Ass'y Front-Cabinet ❻.

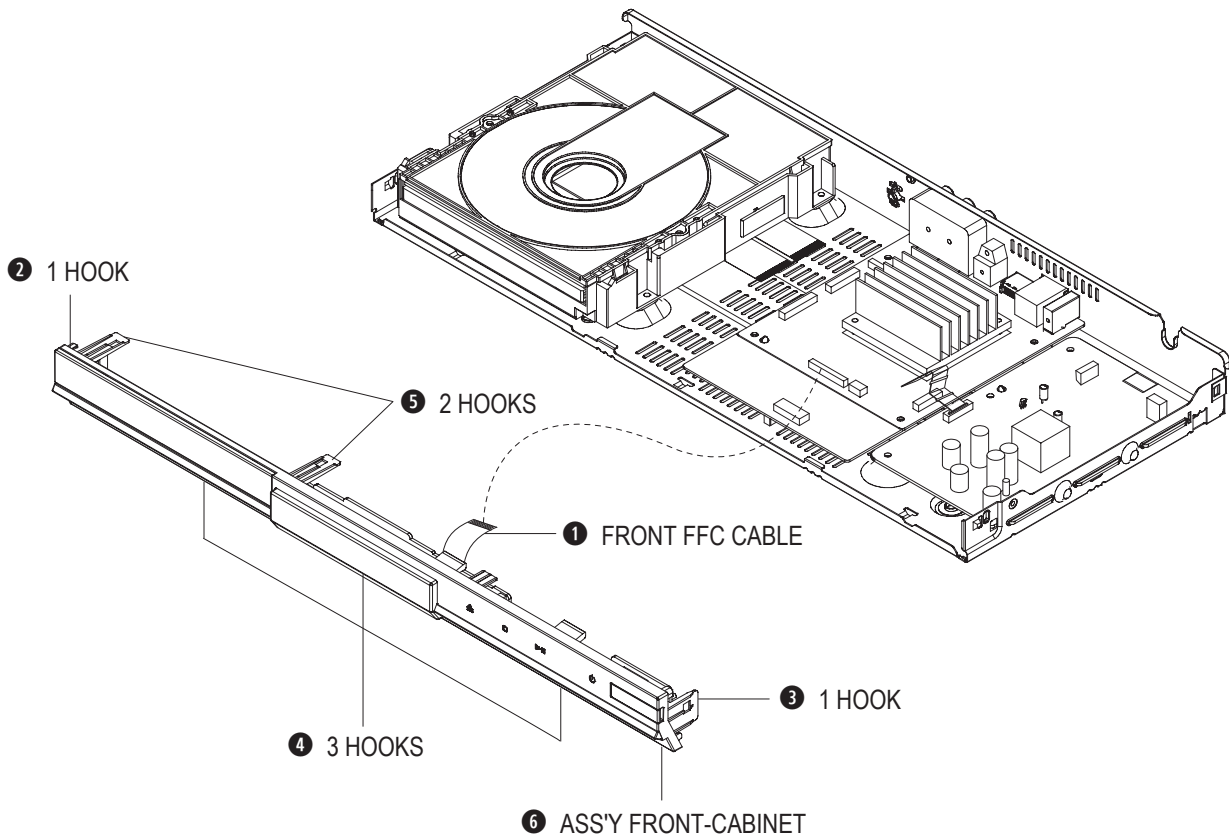


Fig. 3-2 Ass'y Front-Cabinet Removal

3-1-3 Ass'y Deck Removal

- 1) Remove 4 Screws ❶ Disconnect FPC Cable ❷ from the Main PCB.
- 2) Remove Ass'y Deck ❸ and lift it up.

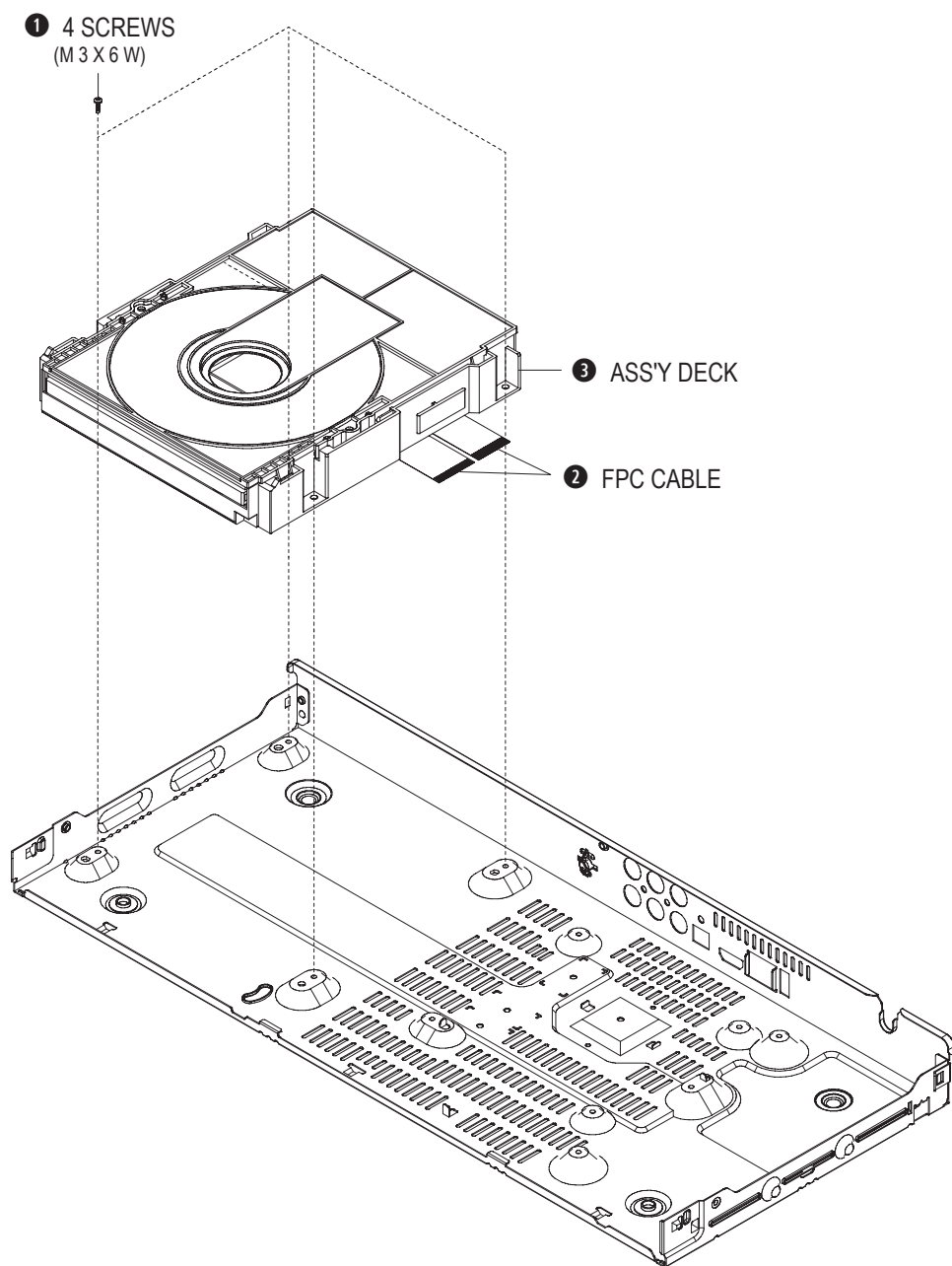


Fig. 3-3 Ass'y Deck Removal

3-1-4 S.M.P.S PCB Removal

- 1) Remove 3 Screws ❶ Disconnect FPC Connector ❷ from the Main PCB.
- 2) Remove S.M.P.S PCB ❸ and lift it up.

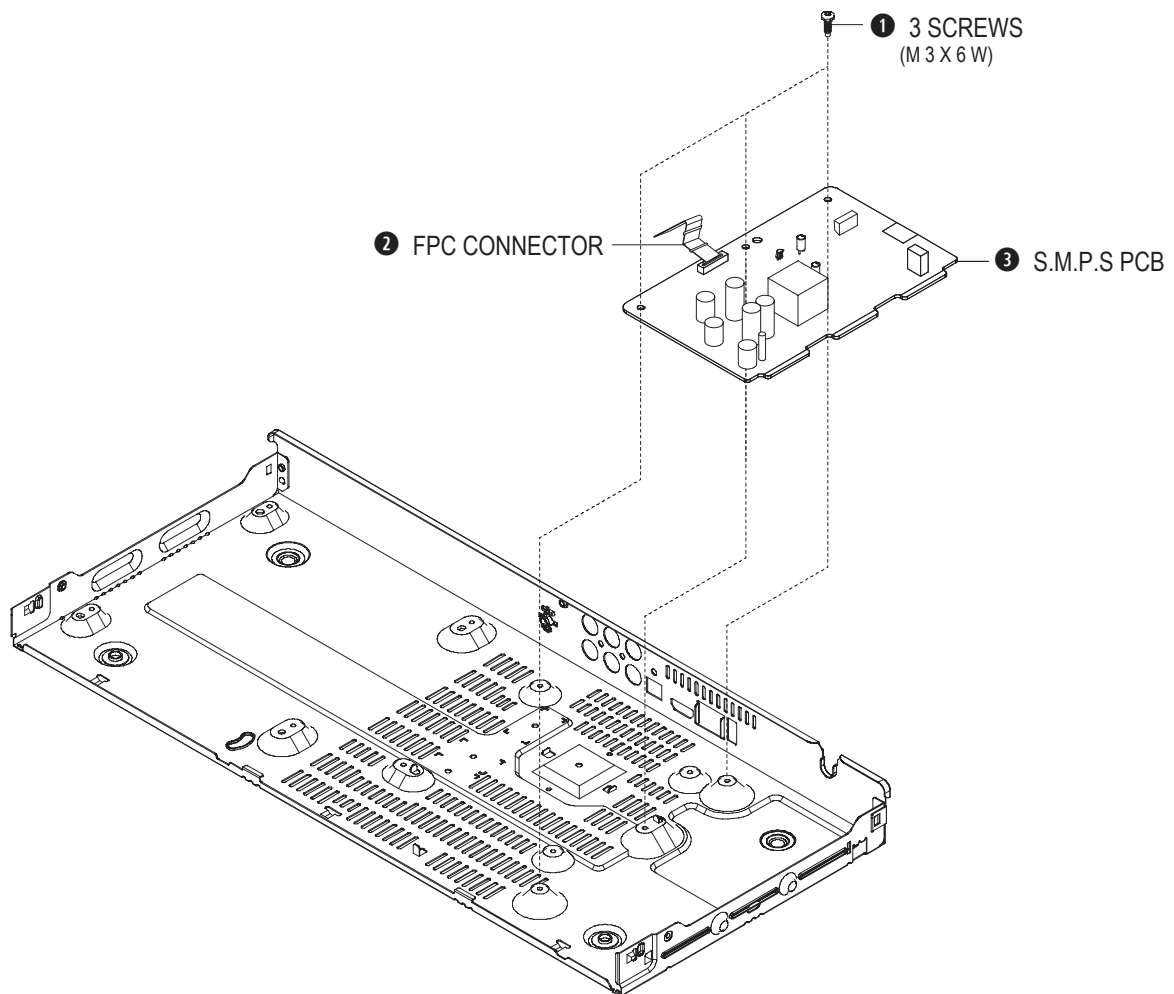


Fig. 3-4 S.M.P.S PCB Removal

3-1-5 Main PCB Removal

1) Remove 4 Screws ❶, ❷ from the Main PCB ❸ and lift it up.

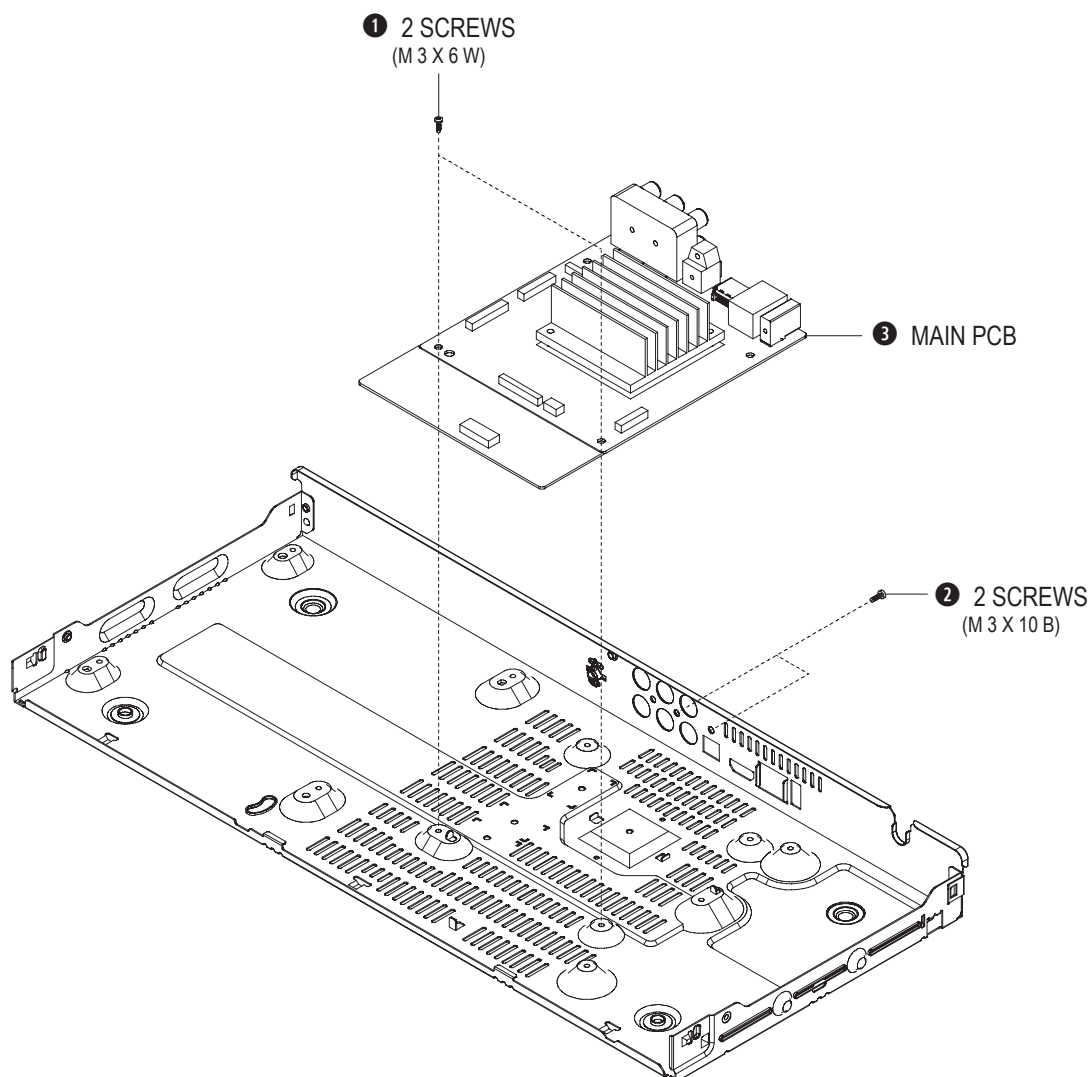


Fig. 3-5 Main PCB Removal

3-2 PCB Location

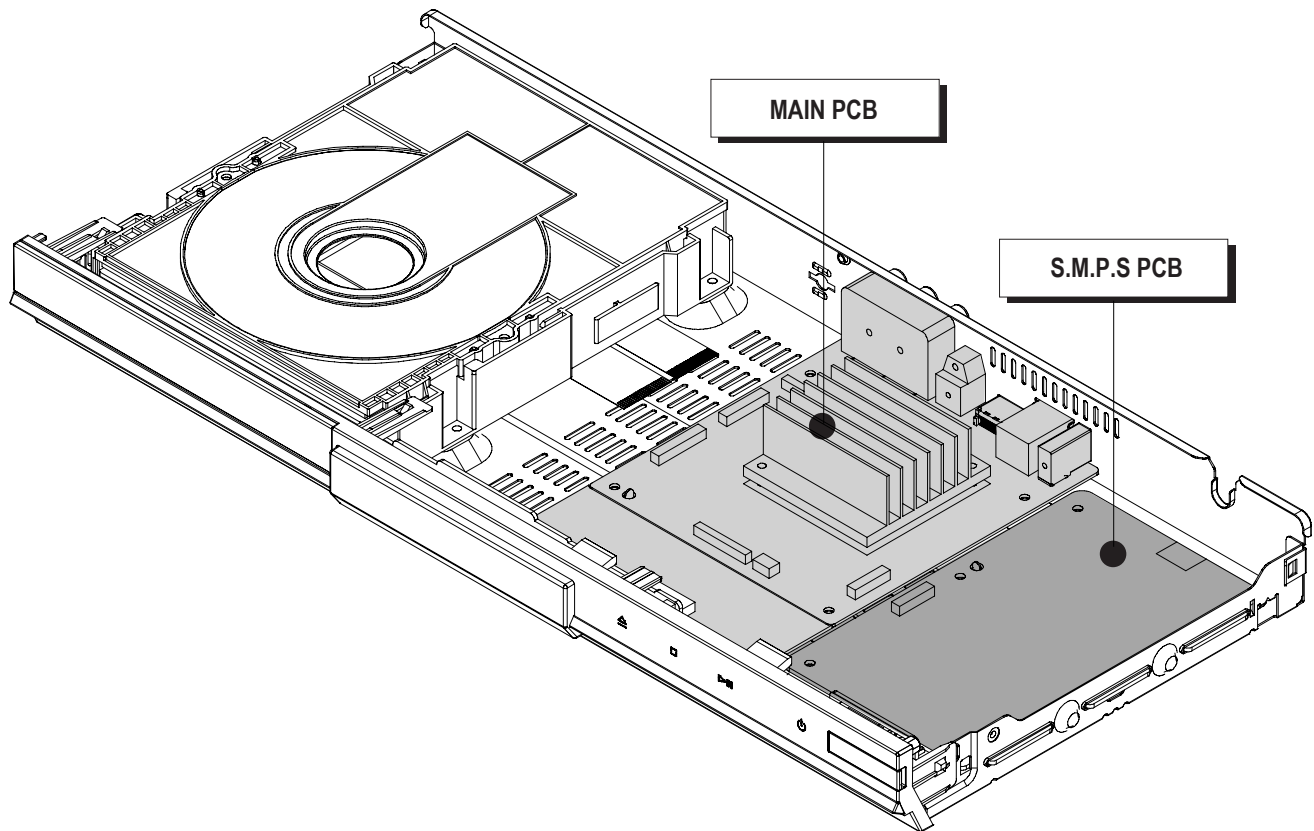


Fig. 3-6 PCB Location

3-3 Deck

3-3-1 Ass'y Cover Removal

- 1) Remove 2 Screws ❶.
- 2) Push 4 Hooks ❷ in the Direction of Arrow "A".
- 3) Lift up the Ass'y Cover ❸ in direction of arrow "B".

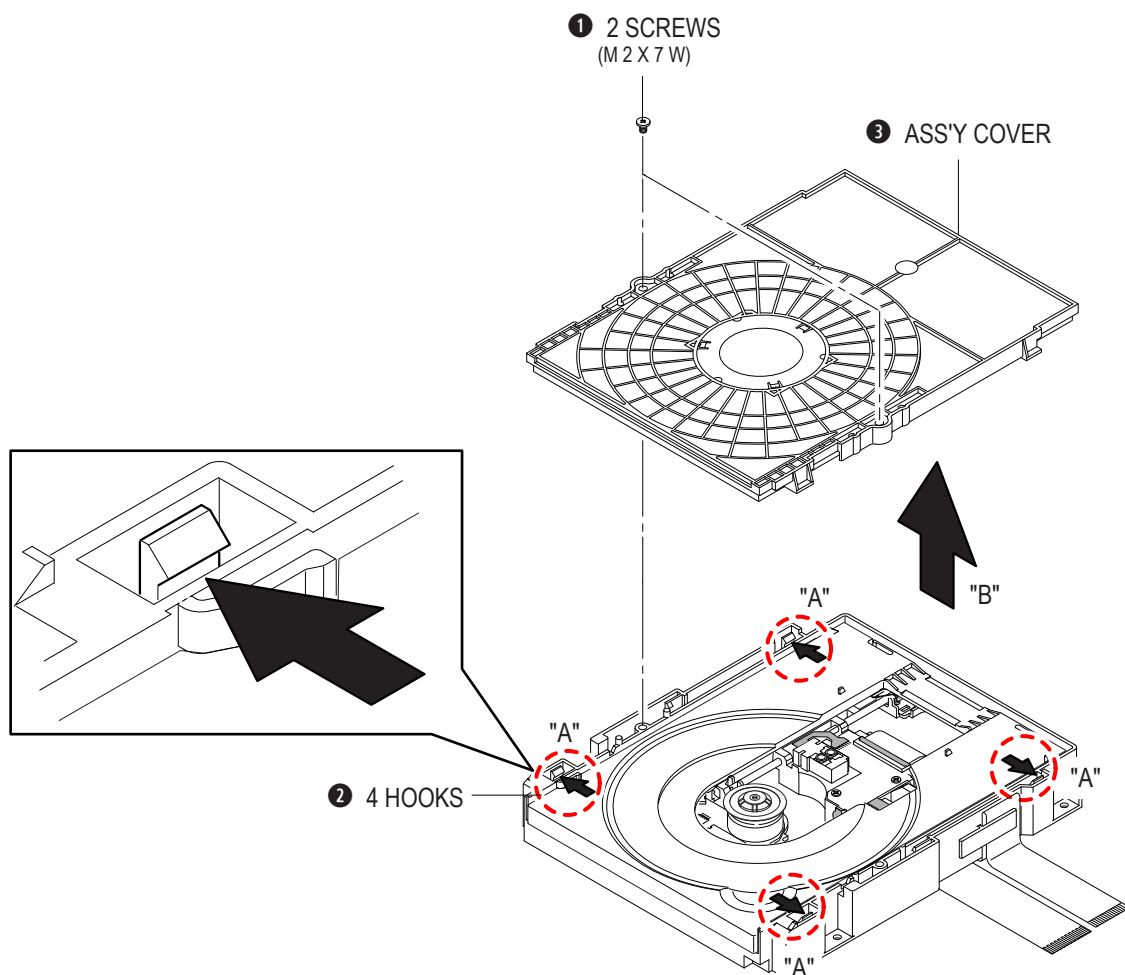


Fig. 3-7 Ass'y Cover Removal

3-3-2 Tray Disc Removal

- 1) Insert a Screw Driver into Hole ❶ and rotate Gear Tray ❷ in the direction arrow "Open".
- 2) When the Tray Disc ❸ Comes out a little, pull it in the direction arrow "A" by hand.
- 3) Pull the Tray Disc ❸ to disassemble, while simultaneously pushing 2 Stoppers ❹ (left, right) in the direction arrow "B", "C".

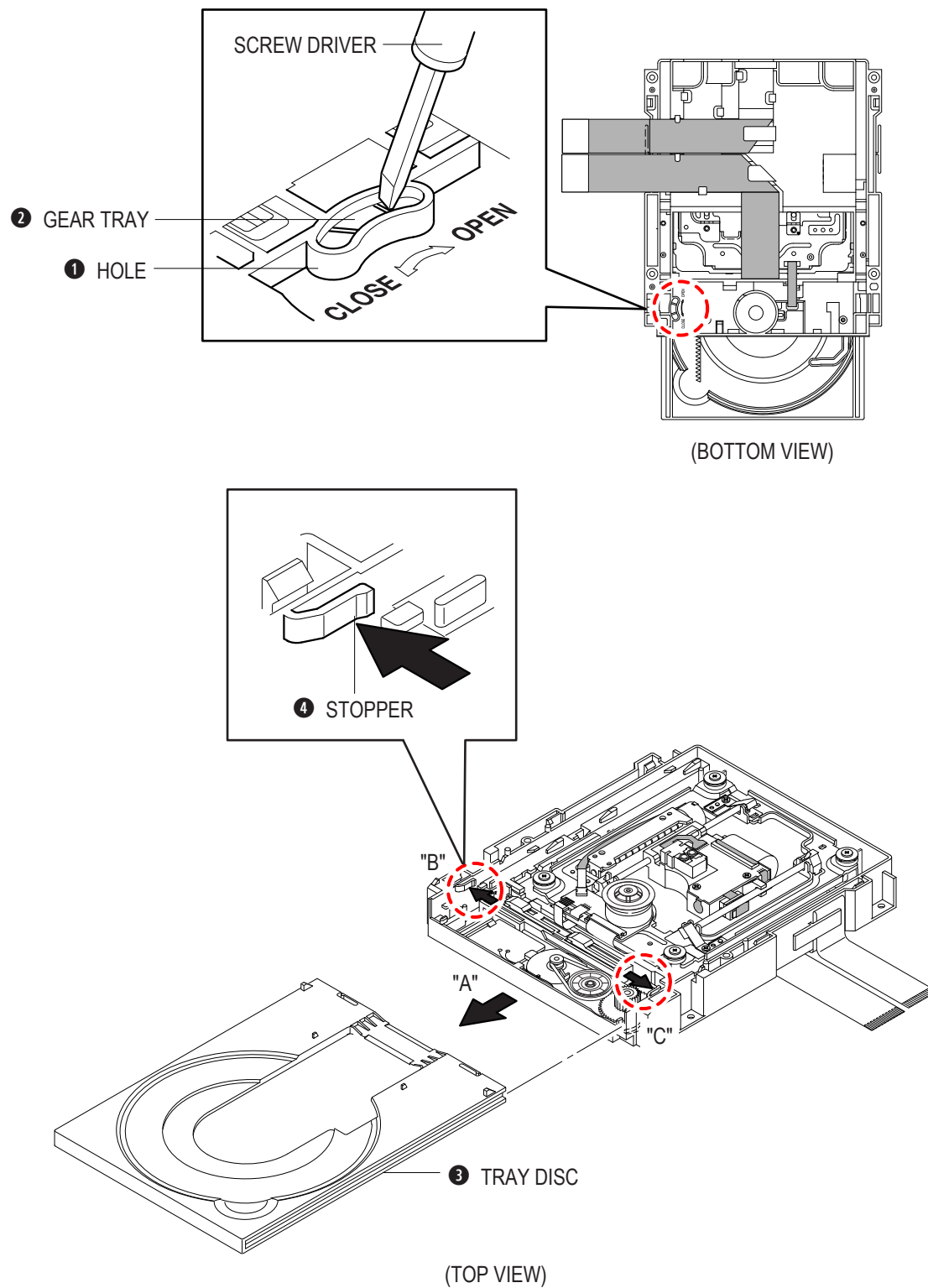


Fig. 3-8 Tray Disc Removal

3-3-3 Cover Bottom Removal (Optional)

- 1) Remove 4 Screws ❶.
- 2) Lift up the Cover Bottom ❷.
- 3) Remove FFC Cable ❸.

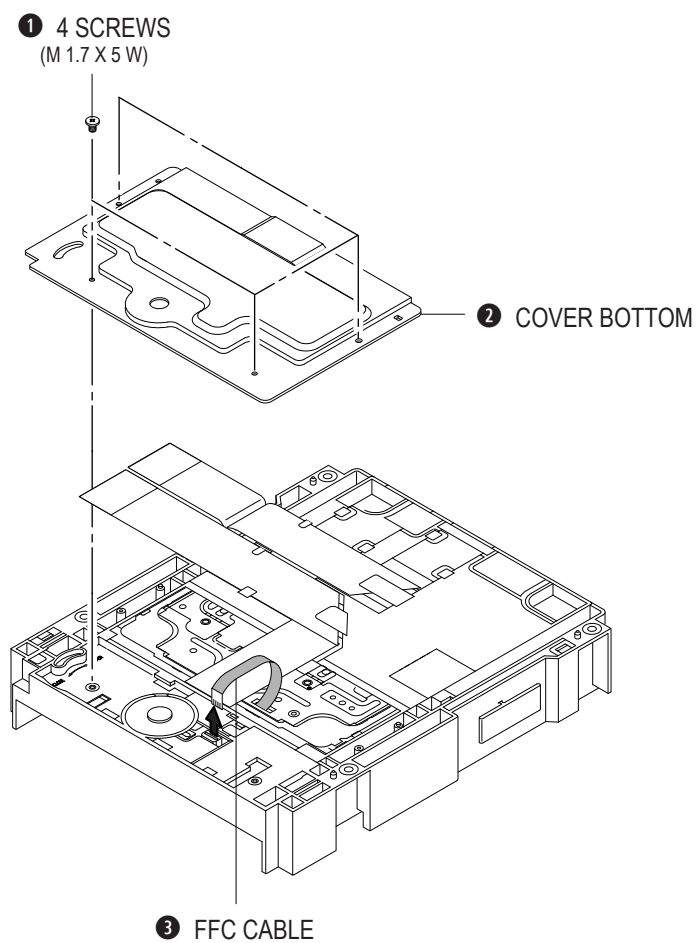


Fig. 3-9 Cover Bottom Removal (Optional)

3-3-4 Assy Traverse Deck Removal

- 1) Remove FFC PU Cable ❶.
- 2) Remove 4 Screws ❷.
- 3) Lift up the Assy Traverse Deck ❸.
- 4) Remove FFC Deck Cable ❹.

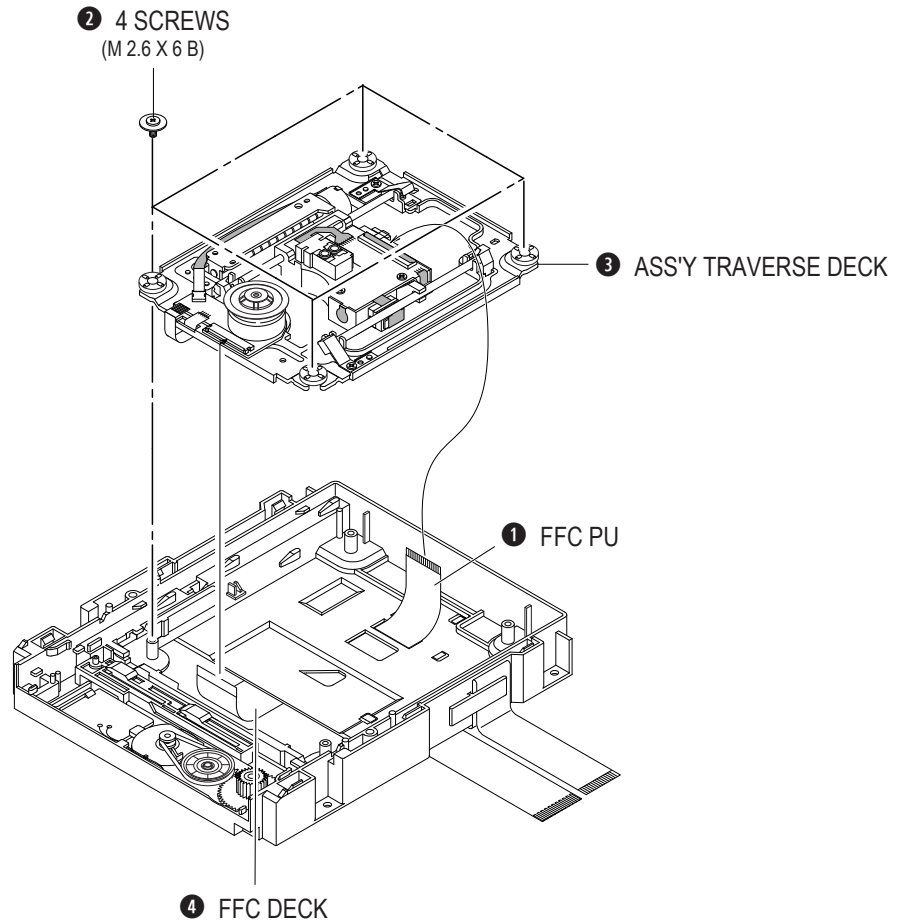


Fig. 3-10 Assy Traverse Deck Removal

3-3-5 Ass'y Pick Up Removal

- 1) Remove 1 Screw ❶ and Lift up the Assy Hinge PU ❷.
- 2) Remove 1 Screw ❸ and Lift up Brkt Shaft Fix R ❹.
- 3) Lift Up Shaft P/U ❺ and Remove the Ass'y Pick Up ❻.

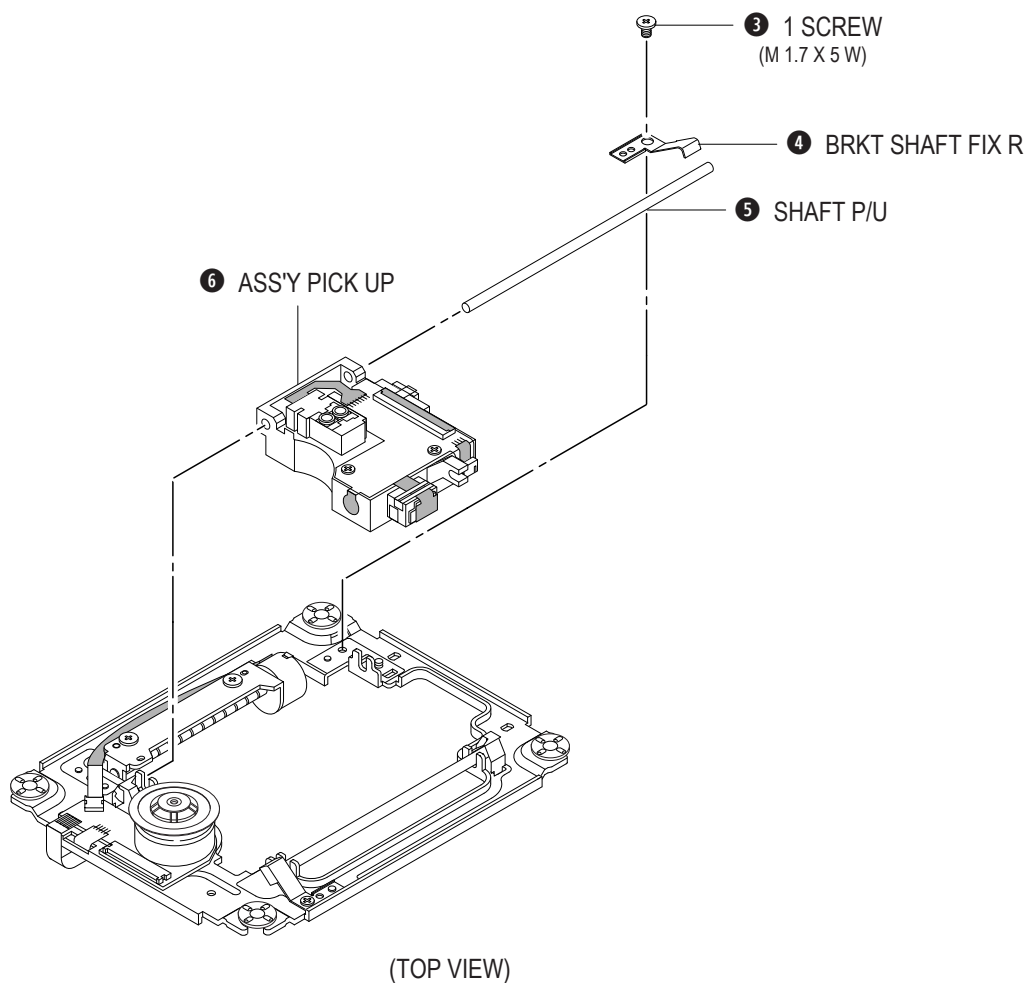
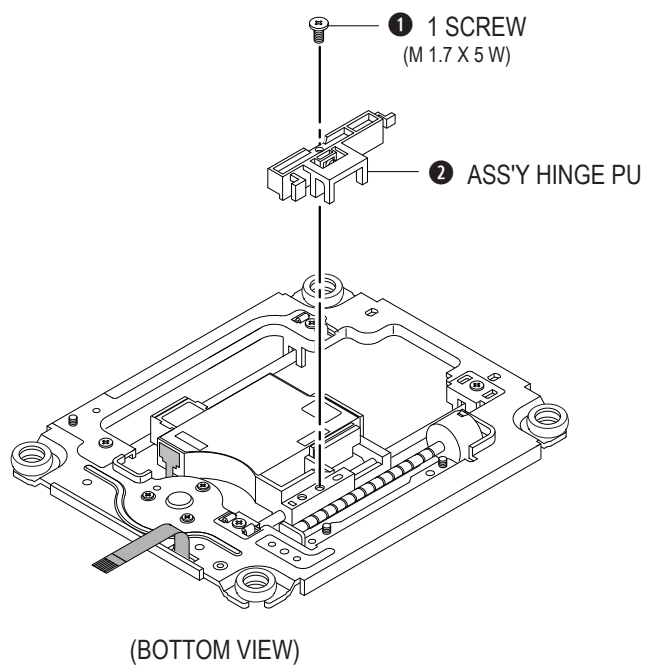


Fig. 3-11 Ass'y Pick Up Removal

3-3-6 Ass'y Pick Up Assembly

- 1) Insert the Shaft P/U ❶ into the Ass'y pick up ❷.
- 2) Insert the Brkt Shaft Fix R ❸ Assemble 1 Screw ❹.
- 3) Insert the Ass'y Hinge PU ❺ Assemble 1 Screw ❻.

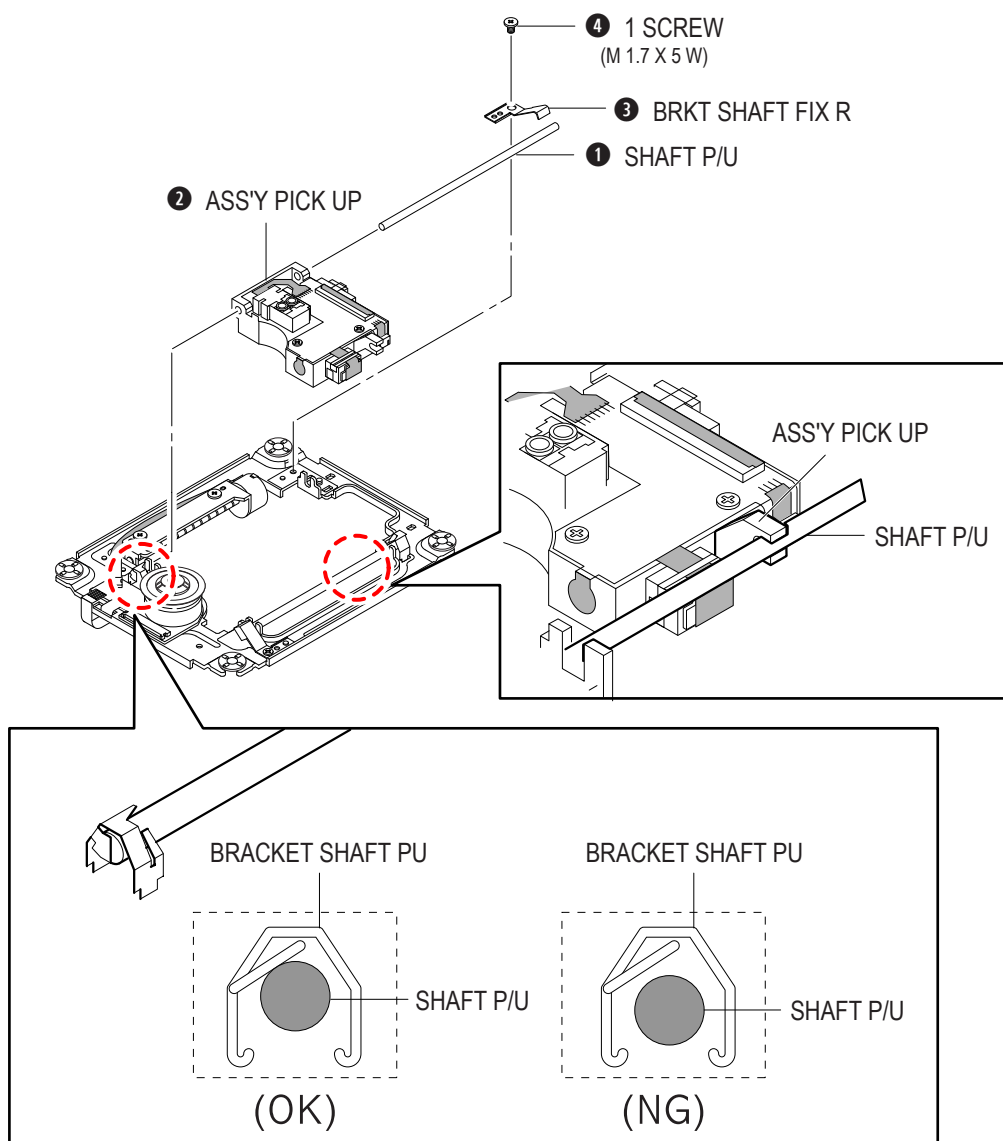


Fig. 3-12 Ass'y Pick Up Assembly

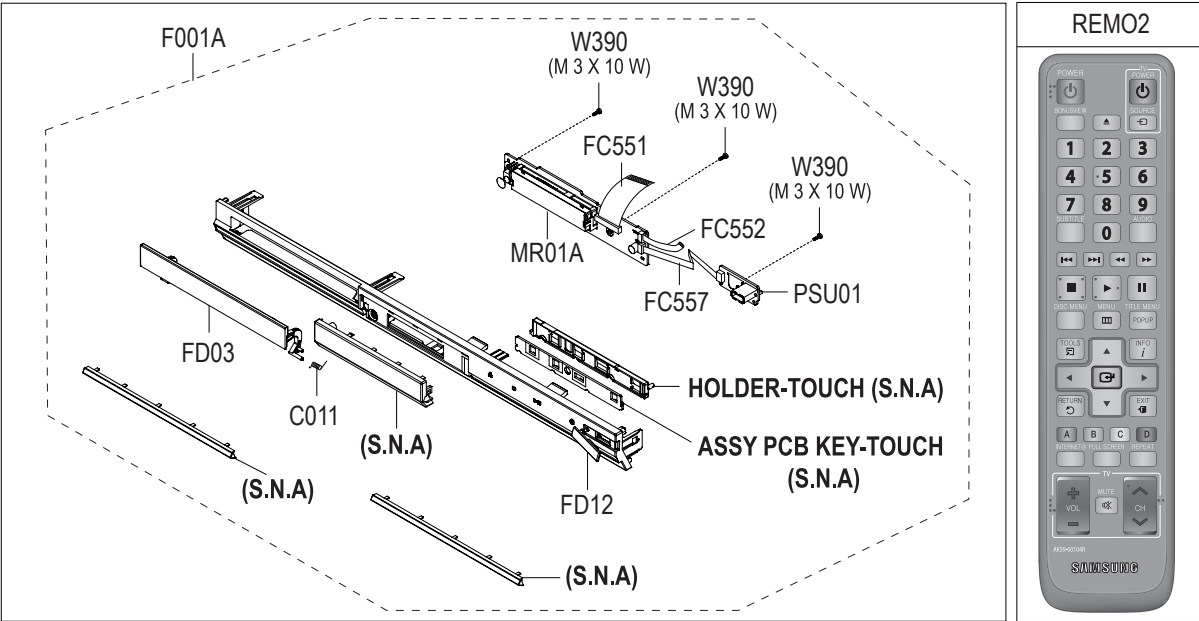
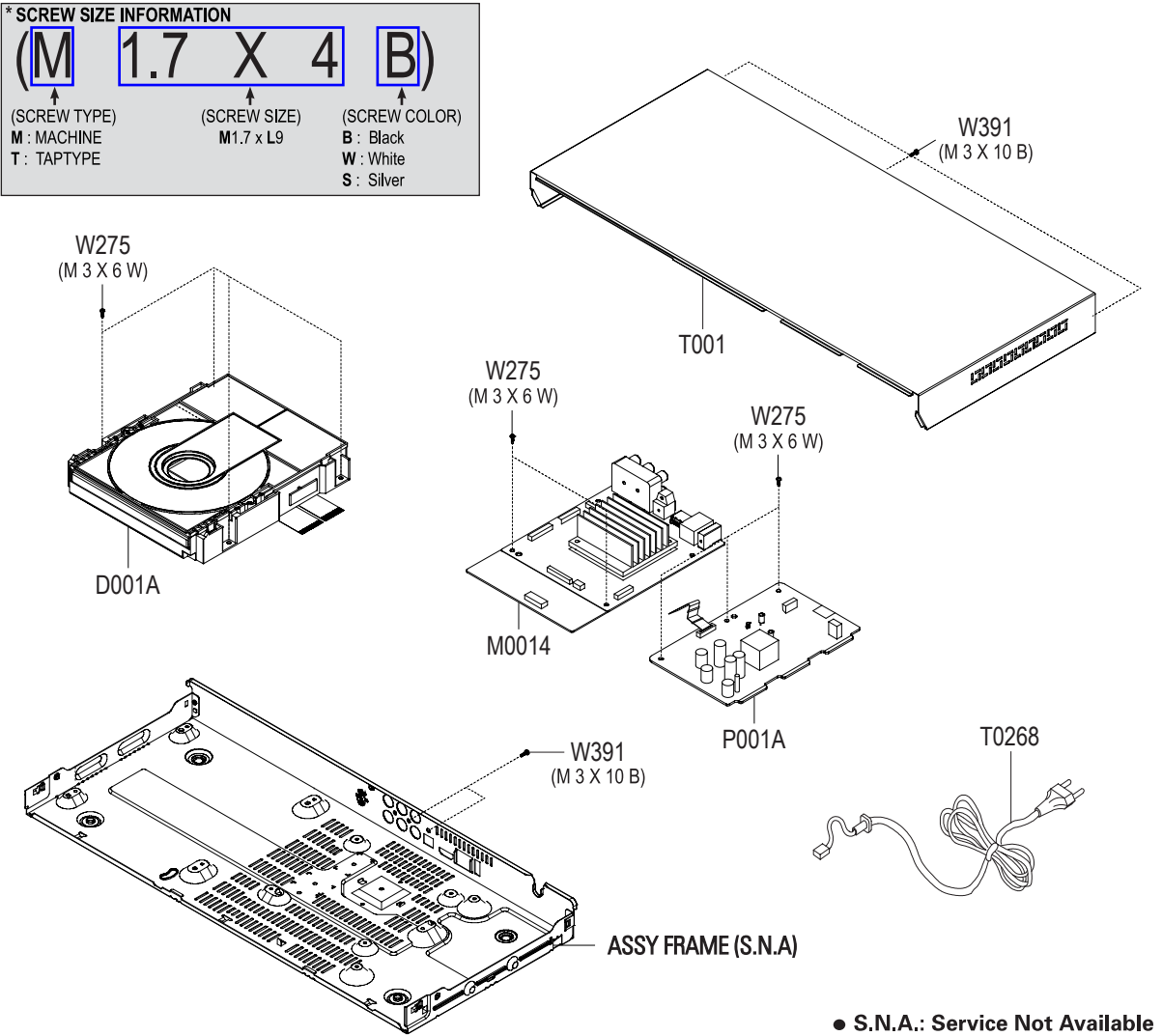
M E M O

5. Exploded View and Parts List

5-1 Cabinet Assembly----- 5-2

5-2 Electrical Parts List----- 5-4

5-1 Cabinet Assembly



Loc. No	Parts No.	Description / Specification	Qty	SNA	Remark
C011	AK61-00137A	SPRING ETC-DOOR;DVD-R4000,COIL,PI0.	1	SA	
D001A	AK96-01294A	ASSY ENGINE P-BD DECK;BD-P6A,SEIN,1A	1	SA	
F001A	AK96-01282A	ASSY COVER P-FRONT;BD-C5300/XEF,SEF	1	SA	
FC551	3809-002551	FFC CABLE-FLAT;30V,80C,100mm,22P,1.	1	SA	
FC552	3809-002552	FFC CABLE-FLAT;30V,80C,40mm,5P,1.0m	1	SA	
FC557	3809-002557	FFC CABLE-FLAT;30V,80C,95mm,5P,1mm,UJ2896	1	SA	
FD03	AK64-02438A	DOOR-TRAY;BD-C5300/XAA,PMMA + ABS H	1	SA	
FD12	AK64-02427A	DOOR-USB;BD-C5500/XAA,ABS BLK + ELA	1	SA	
M0014	AK94-00328A	ASSY PCB MAIN;BD-C5300/XEF,MAIN PCB	1	SA	
MR01A	AK94-00285B	ASSY PCB FRONT-BD-C5300;BD-C5300,AS	1	SA	
P001A	AK94-00324B	ASSY PCB SMPS;BD-C5500/XAX,ASSY PCB	1	SA	
PSU01	AK94-00282A	ASSY PCB S-SUB-USB;BD-C5500/XAA,ASS	1	SA	
REMO2	AK59-00104R	REMOCON-ASSY;"10 BDP BD-C5500/XAA,S	1	SA	
T001	AK63-00607B	COVER-TOP;BD-C5300/XEF,PCM,T0.45,W5	1	SA	
T0268	AC39-10019A	CBF-POWER CORD;AT,CP2,HOUING(2P),25	1	SA	
W275	6003-001561	SCREW-TAPTYPE;BH,+,-,B,M3,L6,ZPC(WH	9	SA	
W390	6003-000276	SCREW-TAPTYPE;BH,+,-,B,M3,L10,ZPC(W	3	SA	
W391	6003-000275	SCREW-TAPTYPE;BH,+,-,B,M3,L10,ZPC(BLK	5	SA	

5-2 Electrical Parts List

Loc.No	Parts No	Description / Specification	Qty	S.N.A	Remark	Loc.No	Parts No	Description / Specification	Qty	S.N.A	Remark
M0014AK94-00328A ASSY PCB MAIN:BD-C5300/XEF,MAIN PCB						C145	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	SNA	
BD1	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MH	1	SA		C146	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,160	1	SNA	
BD12	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MH	1	SA		C147	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,160	1	SNA	
BD14	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MH	1	SA		C148	2203-002687	C-CER,CHIP;1.2nF,10%,50V,X7R,TP,100	1	SA	
BD2	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MH	1	SA		C149	2203-002711	C-CER,CHIP;100nF,10%,25V,X7R,1608	1	SA	
BD3	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MH	1	SA		C15	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,TP,1005	1	SA	
BD6	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MH	1	SA		C150	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
BD8	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MH	1	SA		C151	2203-002687	C-CER,CHIP;1.2nF,10%,50V,X7R,TP,100	1	SA	
BD9	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MH	1	SA		C152	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC	
C1	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C153	2203-006824	C-CER,CHIP;4700nF,10%,10V,X5R,1608	1	SNA	
C10	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC		C154	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC	
C100	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C155	2203-006562	C-CER,CHIP;100nF,10%,10V,X5R,TP,10	1	SNA	
C101	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C156	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	SA	
C102	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C157	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	SA	
C103	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C158	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C104	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C159	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C105	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C16	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,TP,1005	1	SA	
C106	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C160	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C107	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C161	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C108	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C162	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C109	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	SA		C163	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C11	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C164	2203-006824	C-CER,CHIP;4700nF,10%,10V,X5R,1608	1	SNA	
C110	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,160	1	SNA		C165	2203-006824	C-CER,CHIP;4700nF,10%,10V,X5R,1608	1	SNA	
C111	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C166	2203-006824	C-CER,CHIP;4700nF,10%,10V,X5R,1608	1	SNA	
C112	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,160	1	SNA		C167	2203-006824	C-CER,CHIP;4700nF,10%,10V,X5R,1608	1	SNA	
C113	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC		C168	2203-006824	C-CER,CHIP;4700nF,10%,10V,X5R,1608	1	SNA	
C114	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC		C169	2203-006824	C-CER,CHIP;4700nF,10%,10V,X5R,1608	1	SNA	
C115	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2	1	SNA		C170	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C116	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC		C171	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC	
C117	2203-006562	C-CER,CHIP;100nF,10%,10V,X5R,TP,10	1	SNA		C172	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	SNA	
C118	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC		C173	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	SNA	
C119	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,160	1	SNA		C174	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	SNA	
C12	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC		C175	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,160	1	SNA	
C120	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C176	2203-002687	C-CER,CHIP;1.2nF,10%,50V,X7R,TP,100	1	SA	
C121	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	SA		C177	2203-002711	C-CER,CHIP;100nF,10%,25V,X7R,1608	1	SA	
C122	2203-006562	C-CER,CHIP;100nF,10%,10V,X5R,TP,10	1	SNA		C178	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	SNA	
C123	2203-003039	C-CER,CHIP;0.008nF,0.25pF,50V,COG,T	1	SNA		C179	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	SNA	
C124	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	SA		C18	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C125	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C180	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C126	2203-002711	C-CER,CHIP;100nF,10%,25V,X7R,1608	1	SA		C181	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C127	2203-000425	C-CER,CHIP;0.18nF,5%,50V,COG,TP,100	1	SA		C182	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C128	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC		C183	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C129	2203-006474	C-CER,CHIP;22000nF,20%,6.3V,X5R,201	1	SA		C184	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	SA	
C13	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,TP,1005	1	SA		C185	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	SNA	
C130	2203-006474	C-CER,CHIP;22000nF,20%,6.3V,X5R,201	1	SA		C186	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	SNA	
C131	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC		C187	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,160	1	SNA	
C132	2203-006474	C-CER,CHIP;22000nF,20%,6.3V,X5R,201	1	SA		C188	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	SA	
C133	2203-006474	C-CER,CHIP;22000nF,20%,6.3V,X5R,201	1	SA		C189	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	SA	
C134	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC		C19	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C135	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC		C190	2203-006047	C-CER,CHIP;33nF,10%,16V,X7R,1005	1	SA	
C136	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC		C191	2203-006047	C-CER,CHIP;33nF,10%,16V,X7R,1005	1	SA	
C137	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC		C192	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	1	SA	
C138	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C193	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	1	SA	
C139	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,TP,1005	1	SA		C194	2203-002711	C-CER,CHIP;100nF,10%,25V,X7R,1608	1	SA	
C14	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,TP,1005	1	SA		C195	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C140	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C196	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	1	SA	
C141	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C197	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	SNA	
C142	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC		C198	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,1005	1	SNA	
C143	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C199	2203-002994	C-CER,CHIP;0.068nF,5%,50V,CH,BK,100	1	SNA	
C144	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	SNA		C2	2203-000233	C-CER,CHIP;0.1nF,5%,50V,COG,TP,1005	1	SA	

Loc.No	Parts No	Description / Specification	Qty	S.N.A	Remark	Loc.No	Parts No	Description / Specification	Qty	S.N.A	Remark
C20	2203-006324	C-CER,CHIP;2200nF,10%,10V,X5R,1608	1	SA		C31	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,10	1	SNA	
C200	2203-005659	C-CER,CHIP;0.18nF,5%,50V,NP0,1005	1	SNA		C32	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,10	1	SNA	
C201	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C33	2203-006324	C-CER,CHIP;2200nF,10%,10V,X5R,1608	1	SA	
C202	2203-006047	C-CER,CHIP;33nF,10%,16V,X7R,1005	1	SA		C34	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC	
C203	2203-002711	C-CER,CHIP;100nF,10%,25V,X7R,1608	1	SA		C35	2203-006324	C-CER,CHIP;2200nF,10%,10V,X5R,1608	1	SA	
C204	2203-006047	C-CER,CHIP;33nF,10%,16V,X7R,1005	1	SA		C36	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C205	2203-006047	C-CER,CHIP;33nF,10%,16V,X7R,1005	1	SA		C37	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C206	2203-006047	C-CER,CHIP;33nF,10%,16V,X7R,1005	1	SA		C38	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,10	1	SNA	
C207	2203-002711	C-CER,CHIP;100nF,10%,25V,X7R,1608	1	SA		C39	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C208	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	1	SA		C4	2203-006824	C-CER,CHIP;4700nF,10%,10V,X5R,1608	1	SNA	
C209	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	1	SA		C40	2203-001397	C-CER,CHIP;2.2nF,5%,50V,NP0,1608	1	SA	
C21	2203-006324	C-CER,CHIP;2200nF,10%,10V,X5R,1608	1	SA		C41	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC	
C210	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	1	SA		C42	2203-001397	C-CER,CHIP;2.2nF,5%,50V,NP0,1608	1	SA	
C211	2203-000715	C-CER,CHIP;3.3nF,10%,50V,X7R,1608	1	SNA		C43	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC	
C212	2203-000715	C-CER,CHIP;3.3nF,10%,50V,X7R,1608	1	SNA		C44	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C213	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC		C45	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C214	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C46	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C215	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C47	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C216	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C48	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C217	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	1	SA		C49	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C218	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	1	SA		C5	2203-006824	C-CER,CHIP;4700nF,10%,10V,X5R,1608	1	SNA	
C219	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	1	SA		C50	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC	
C22	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C51	2203-000643	C-CER,CHIP;0.024nF,5%,50V,C0G,TP,10	1	SA	
C220	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	SNA		C52	2203-000643	C-CER,CHIP;0.024nF,5%,50V,C0G,TP,10	1	SA	
C221	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,10	1	SNA		C53	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C222	2203-003039	C-CER,CHIP;0.008nF,0.25pF,50V,C0G,T	1	SNA		C54	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C224	2203-006698	C-CER,CHIP;1000nF,10%,25V,X7R,1608	1	SNA		C55	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C225	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C56	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C226	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	SA		C57	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C227	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	SA		C58	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC	
C228	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C59	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C229	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC		C6	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C23	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C60	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	SA	
C230	2203-000233	C-CER,CHIP;0.1nF,5%,50V,C0G,TP,1005	1	SA		C61	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C231	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C62	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C232	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C63	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC	
C233	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C64	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC	
C234	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C65	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC	
C235	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	SNA		C66	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C236	2203-000233	C-CER,CHIP;0.1nF,5%,50V,C0G,TP,1005	1	SA		C67	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C237	2203-000233	C-CER,CHIP;0.1nF,5%,50V,C0G,TP,1005	1	SA		C68	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C238	2203-000233	C-CER,CHIP;0.1nF,5%,50V,C0G,TP,1005	1	SA		C69	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C239	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	SNA		C7	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC	
C24	2203-006324	C-CER,CHIP;2200nF,10%,10V,X5R,1608	1	SA		C70	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C240	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	SNA		C71	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C241	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	SNA		C72	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C242	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,10	1	SNA		C73	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C246	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C74	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC	
C247	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C75	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC	
C248	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C76	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC	
C249	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C77	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C25	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,10	1	SNA		C79	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C250	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C8	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C251	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC		C80	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C252	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC		C81	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C253	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2	1	SC		C82	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C254	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	SA		C83	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C255	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	SA		C84	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C257	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	SNA		C85	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C27	2203-006324	C-CER,CHIP;2200nF,10%,10V,X5R,1608	1	SA		C86	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C28	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C87	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C29	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C88	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C3	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		C89	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA	
C30	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,10	1	SNA							

Exploded Views and Parts List

Loc.No	Parts No	Description / Specification	Qty	S.N.A	Remark	Loc.No	Parts No	Description / Specification	Qty	S.N.A	Remark
C9	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		Q13	0501-000465	TR-SMALL SIGNAL;MMBT3904,NPN,350mW,	1	SA	
C90	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		Q14	0504-000126	TR-DIGITAL;KSR1101,NPN,200mW,4.7K/4	1	SA	
C91	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		Q15	0501-000546	TR-SMALL SIGNAL;KSA1298,PNP,200mW,S	1	SNA	
						Q16	0501-000457	TR-SMALL SIGNAL;MMBT2222A/KST2222A,	1	SA	
C92	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		Q17	0501-000457	TR-SMALL SIGNAL;MMBT2222A/KST2222A,	1	SA	
C93	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA							
C94	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		Q18	0505-001344	FET-SILICON;FDN360P,P,-30V,-2A,0.08	1	SNA	
C95	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		Q19	0505-002386	FET-SILICON;AO3415AL,P,-20V,-4A,0.0	1	SA	
C96	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		Q2	0501-000457	TR-SMALL SIGNAL;MMBT2222A/KST2222A,	1	SA	
						Q20	0505-002386	FET-SILICON;AO3415AL,P,-20V,-4A,0.0	1	SA	
C97	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		Q23	0504-000126	TR-DIGITAL;KSR1101,NPN,200mW,4.7K/4	1	SA	
C98	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA							
C99	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,100	1	SA		Q24	0501-000465	TR-SMALL SIGNAL;MMBT3904,NPN,350mW,	1	SA	
CN10	3708-002603	CONNECTOR-FPC/FFC/PIC;22P,1mm,SMD-S	1	SNA		Q25	0501-000465	TR-SMALL SIGNAL;MMBT3904,NPN,350mW,	1	SA	
CN12	3708-001935	CONNECTOR-FPC/FFC/PIC;40P,0.5mm,SMD	1	SNA		Q26	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5o	1	SA	
						Q27	0504-000129	TR-DIGITAL;KSR1104,NPN,200mW,4.7K/4	1	SA	
CN14	3708-002603	CONNECTOR-FPC/FFC/PIC;22P,1mm,SMD-S	1	SNA		Q3	0501-000465	TR-SMALL SIGNAL;MMBT3904,NPN,350mW,	1	SA	
CN2	3722-003017	JACK-MODULAR;8P/8C,No,ANGLE,W/O,AU,	1	SNA							
CN3	3722-003021	JACK-PIN;6P (W/L),NI+SN,RED/BLU/GRN	1	SNA		Q4	0504-000152	TR-DIGITAL;KSR2101,PNP,200mW,4.7K/4	1	SA	
CN4	3701-001293	CONNECTOR-HDMI;19P,2R,FEMALE,SMD-A,	1	SA		Q5	0501-000465	TR-SMALL SIGNAL;MMBT3904,NPN,350mW,	1	SA	
CN9	3710-003239	SOCKET-BOARD TO CABLE;11P,2R,1.25mm	1	SNA		Q6	0504-000156	TR-DIGITAL;KSR2103,PNP,200mW,22K/22	1	SA	
						Q7	0504-000156	TR-DIGITAL;KSR2103,PNP,200mW,22K/22	1	SA	
D1	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,	1	SNA		Q8	0501-000457	TR-SMALL SIGNAL;MMBT2222A/KST2222A,	1	SA	
D2	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,	1	SNA							
D3	0406-001239	DIODE-TVS;RClamp0502B,6/-I-V,125W,S	1	SA		Q9	0504-000126	TR-DIGITAL;KSR1101,NPN,200mW,4.7K/4	1	SA	
D4	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,	1	SNA		R1	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	SNA	
D5	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,	1	SNA		R10	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	SNA	
						R101	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
D6	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,	1	SNA		R102	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	SNA	
D7	0406-001239	DIODE-TVS;RClamp0502B,6/-I-V,125W,S	1	SA							
D8	0401-000008	DIODE-SWITCHING;DAN217,80V,100MA,SO	1	SA		R103	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
D9	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,	1	SNA		R104	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
HC1	2203-006170	C-CER,CHIP;220nF,10%,16V,X7R,1608	1	SNA		R105	2007-000139	R-CHIP;220ohm,5%,1/16W,TP,1005	1	SNA	
						R106	2007-000139	R-CHIP;220ohm,5%,1/16W,TP,1005	1	SNA	
HP_SUB	0202-001767	SOLDER-CREAM;LST-5710,D20-38,Sn-57B	1.338	SNA		R107	2007-000606	R-CHIP;240ohm,1%,1/10W,TP,1608	1	SA	
HP_SUB	0202-001608	SOLDER-WIRE FLUX;LFC7-107,D0.8,99.3	0.025	SNA							
IC1	1204-003090	IC-VIDEO DECODER;BCM7630,FCBGA,422P	1	SNA		R110	2007-007318	R-CHIP;1Kohm,1%,1/16W,TP,1005	1	SNA	
IC10	1203-001212	IC-VOL. DETECTOR;7029,SOT-89,3P,-P	1	SA		R111	2007-000343	R-CHIP;120ohm,1%,1/10W,TP,1608	1	SA	
IC11	1201-000166	IC-OP AMP;LM358,SOP,ST,8P,150MIL,DU	1	SA		R112	2007-000606	R-CHIP;240ohm,1%,1/10W,TP,1608	1	SA	
						R113	2007-000343	R-CHIP;120ohm,1%,1/10W,TP,1608	1	SA	
IC12	1203-006104	IC-DC/DC CONVERTER;MP8707EN,SOIC8E,	1	SA		R115	2007-000242	R-CHIP;1.5Kohm,5%,1/16W,TP,1005	1	SNA	
IC16	1201-000166	IC-OP AMP;LM358,SOP,ST,8P,150MIL,DU	1	SA							
IC17	1105-002083	IC-DRAM;K4B1G0846E-HCH9,DDR3 1G SDR	1	SNA		R119	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
IC18	1001-001482	IC-ANALOG SWITCH;MAX4610CUD,SPST CM	1	SNA		R12	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
IC19	1003-002187	IC-MOTOR DRIVER;AM9268,SOP,42P,18x7	1	SA		R121	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
						R122	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
IC1A	AK62-00031A	HEAT SINK-ES;BD-C5500,C6500,A6063,P	1	SNA		R123	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
IC2	1203-005469	IC-POWER SUPERVISOR;MIC2009YM6,SOT-	1	SA							
IC20	1003-002188	IC-MOTOR DRIVER;AM9858,SOP,28P,18x7	1	SNA		R124	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
IC22	1203-002253	IC-POSIFIXED REG;KIA7808AF,DPAK,3	1	SA		R125	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
IC23	1203-006012	IC-DC/DC CONVERTER;MP8725EL,QFN14,1	1	SA		R126	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
						R128	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
IC24	1203-006067	IC-POWER SUPERVISOR;TPS2553DBVR,SOT	1	SNA		R129	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
IC25	1203-006104	IC-DC/DC CONVERTER;MP8707EN,SOIC8E,	1	SA							
IC3	1002-001581	IC-D/A CONVERTER;CS4353-CNZR,24,QFN	1	SNA		R130	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
IC4	1201-003013	IC-VIDEO AMP;MM1797EVBE,TSOP-16B,16	1	SNA		R131	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
IC5	AK97-04068A	ASSY MICOM-FLASH;BD-C5500/XAA,AK41-	1	SNA		R132	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
						R135	2007-000242	R-CHIP;1.5Kohm,5%,1/16W,TP,1005	1	SNA	
IC5	1107-001887	IC-NAND FLASH;NAND02GW3B2DN6,2Gbit,	1	SNA		R136	2007-000242	R-CHIP;1.5Kohm,5%,1/16W,TP,1005	1	SNA	
IC6	1105-002083	IC-DRAM;K4B1G0846E-HCH9,DDR3 1G SDR	1	SNA							
IC7	1105-002066	IC-DRAM;K4B1G1646E-HCH9,DDR3 SDRAM,	1	SNA		R137	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
IC8	1103-001398	IC-EEPROM;24C02,2Kbit,256Kx8,SOIC,8	1	SA		R138	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
IC9	AK09-00211A	IC MICOM-MASK;MC80F0448,BD-C5500/65	1	SNA		R14	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	SNA	
						R141	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	1	SNA	
L14	2703-003559	INDUCTOR-SMD;4.7uH,20%,8080	1	SNA		R142	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	1	SNA	
L2	2703-000402	INDUCTOR-SMD;1uH,20%,3225	1	SNA							
L8	2703-003559	INDUCTOR-SMD;4.7uH,20%,8080	1	SA		R145	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	SNA	
L9	2703-001873	INDUCTOR-SMD;4.7uH,20%,6060	1	SA		R146	2007-001153	R-CHIP;750ohm,1%,1/10W,TP,1608	1	SA	
OP1	3707-001094	CONNECTOR-OPTICAL;ANGLE-TX	1	SA		R148	2007-000152	R-CHIP;20Kohm,5%,1/16W,TP,1005	1	SNA	
						R15	2007-000606	R-CHIP;240ohm,1%,1/10W,TP,1608	1	SA	
P1	1404-001328	THERMISTOR-NTC;10Kohm,0A,3370K,0mW/	1	SNA		R150	2007-000869	R-CHIP;4.7Kohm,1%,1/10W,TP,1608	1	SNA	
PCB	AK41-00929A	PCB MAIN;BD-C5500,FR-4,4.00,1.2T,15	1	SNA							
Q10	0501-000457	TR-SMALL SIGNAL;MMBT2222A/KST2222A,	1	SA		R151	2007-001007	R-CHIP;51Kohm,1%,1/10W,TP,1608	1	SA	
Q11	0501-000465	TR-SMALL SIGNAL;MMBT3904,NPN,350mW,	1	SA		R152	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	SNA	
Q12	0501-000465	TR-SMALL SIGNAL;MMBT3904,NPN,350mW,	1	SA		R153	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	SNA	
						R154	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	SNA	

Loc.No	Parts No	Description / Specification	Qty	S.N.A	Remark	Loc.No	Parts No	Description / Specification	Qty	S.N.A	Remark
R155	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	SNA		R260	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
R156	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	SNA		R261	2007-001044	R-CHIP;56ohm,5%,1/10W,TP,1608	1	SA	
R157	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA		R262	2007-001044	R-CHIP;56ohm,5%,1/10W,TP,1608	1	SA	
R158	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	SNA		R263	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	SNA	
R159	2007-007651	R-CHIP;9.1Kohm,1%,1/10W,TP,1608	1	SA		R264	2007-000835	R-CHIP;39ohm,1%,1/10W,TP,1608	1	SA	
R16	2007-000606	R-CHIP;240ohm,1%,1/10W,TP,1608	1	SA		R265	2007-000835	R-CHIP;39ohm,1%,1/10W,TP,1608	1	SA	
R160	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	SNA		R266	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	SNA	
R161	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	1	SNA		R267	2007-000170	R-CHIP;1Mohm,5%,1/16W,TP,1005	1	SNA	
R163	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP,1608	1	SA		R269	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
R164	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	1	SNA		R27	2007-008015	R-CHIP;75ohm,1%,1/16W,TP,1005	1	SNA	
R165	2007-000096	R-CHIP;30Kohm,5%,1/10W,TP,1608	1	SA		R270	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
R169	2007-001101	R-CHIP;62ohm,5%,1/10W,TP,1608	1	SA		R271	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
R17	2007-000608	R-CHIP;240ohm,5%,1/10W,TP,1608	1	SA		R272	2007-001044	R-CHIP;56ohm,5%,1/10W,TP,1608	1	SA	
R170	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	SNA		R273	2007-001044	R-CHIP;56ohm,5%,1/10W,TP,1608	1	SA	
R171	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	SNA		R274	2007-001313	R-CHIP;330ohm,5%,1/16W,TP,1005	1	SNA	
R173	2007-000170	R-CHIP;1Mohm,5%,1/16W,TP,1005	1	SNA		R276	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	SNA	
R176	2007-000159	R-CHIP;56Kohm,5%,1/16W,TP,1005	1	SNA		R277	2007-007313	R-CHIP;6.8Kohm,1%,1/16W,TP,1005	1	SA	
R178	2007-000979	R-CHIP;5.6Kohm,5%,1/10W,TP,1608	1	SA		R279	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	1	SNA	
R179	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	SNA		R28	2007-008015	R-CHIP;75ohm,1%,1/16W,TP,1005	1	SNA	
R18	2007-000657	R-CHIP;27ohm,1%,1/10W,TP,1608	1	SA		R280	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	1	SNA	
R181	2007-000772	R-CHIP;33Kohm,1%,1/10W,TP,1608	1	SA		R281	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	1	SNA	
R183	2007-001101	R-CHIP;62ohm,5%,1/10W,TP,1608	1	SA		R286	2007-000146	R-CHIP;6.8Kohm,5%,1/16W,TP,1005	1	SNA	
R184	2007-000869	R-CHIP;4.7Kohm,1%,1/10W,TP,1608	1	SNA		R288	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	1	SNA	
R185	2007-000170	R-CHIP;1Mohm,5%,1/16W,TP,1005	1	SNA		R289	2007-007334	R-CHIP;200Kohm,1%,1/16W,TP,1005	1	SNA	
R186	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	1	SNA		R29	2007-008015	R-CHIP;75ohm,1%,1/16W,TP,1005	1	SNA	
R188	2007-000570	R-CHIP;220ohm,1%,1/10W,TP,1608	1	SA		R290	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	1	SNA	
R19	2007-000108	R-CHIP;510Kohm,5%,1/10W,TP,1608	1	SA		R291	2007-008339	R-CHIP;30Kohm,0.5%,1/16W,TP,1005	1	SNA	
R191	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SNA		R292	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	SNA	
R198	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	SNA		R293	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	1	SNA	
R199	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	SNA		R294	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	SNA	
R2	2007-002915	R-CHIP;4.02Kohm,1%,1/10W,TP,1608	1	SA		R295	2007-000695	R-CHIP;3.3ohm,5%,1/10W,TP,1608	1	SNA	
R20	2007-000999	R-CHIP;510ohm,1%,1/10W,TP,1608	1	SA		R296	2007-000695	R-CHIP;3.3ohm,5%,1/10W,TP,1608	1	SNA	
R200	2007-000137	R-CHIP;2Kohm,5%,1/16W,TP,1005	1	SNA		R297	2007-000695	R-CHIP;3.3ohm,5%,1/10W,TP,1608	1	SNA	
R201	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	SNA		R298	2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	1	SNA	
R203	2007-000152	R-CHIP;20Kohm,5%,1/16W,TP,1005	1	SNA		R299	2007-000695	R-CHIP;3.3ohm,5%,1/10W,TP,1608	1	SNA	
R204	2007-000152	R-CHIP;20Kohm,5%,1/16W,TP,1005	1	SNA		R3	2007-008453	R-CHIP;1.24Kohm,1%,1/16W,TP,1005	1	SNA	
R205	2007-000152	R-CHIP;20Kohm,5%,1/16W,TP,1005	1	SNA		R30	2007-008015	R-CHIP;75ohm,1%,1/16W,TP,1005	1	SNA	
R206	2007-000152	R-CHIP;20Kohm,5%,1/16W,TP,1005	1	SNA		R300	2007-000151	R-CHIP;15Kohm,5%,1/16W,TP,1005	1	SNA	
R208	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA		R301	2007-000695	R-CHIP;3.3ohm,5%,1/10W,TP,1608	1	SNA	
R209	2007-000152	R-CHIP;20Kohm,5%,1/16W,TP,1005	1	SNA		R302	2007-000503	R-CHIP;2.2ohm,5%,1/10W,TP,1608	1	SA	
R21	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	SNA		R303	2007-000151	R-CHIP;15Kohm,5%,1/16W,TP,1005	1	SNA	
R210	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	SNA		R304	2007-000503	R-CHIP;2.2ohm,5%,1/10W,TP,1608	1	SA	
R211	2007-001101	R-CHIP;62ohm,5%,1/10W,TP,1608	1	SA		R305	2007-000695	R-CHIP;3.3ohm,5%,1/10W,TP,1608	1	SNA	
R212	2007-000152	R-CHIP;20Kohm,5%,1/16W,TP,1005	1	SNA		R306	2007-000503	R-CHIP;2.2ohm,5%,1/10W,TP,1608	1	SA	
R216	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA		R307	2007-000151	R-CHIP;15Kohm,5%,1/16W,TP,1005	1	SNA	
R218	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA		R308	2007-000695	R-CHIP;3.3ohm,5%,1/10W,TP,1608	1	SNA	
R219	2007-000100	R-CHIP;68Kohm,5%,1/10W,TP,1608	1	SNA		R309	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	1	SNA	
R22	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA		R31	2007-008015	R-CHIP;75ohm,1%,1/16W,TP,1005	1	SNA	
R222	2007-000152	R-CHIP;20Kohm,5%,1/16W,TP,1005	1	SNA		R310	2007-000695	R-CHIP;3.3ohm,5%,1/10W,TP,1608	1	SNA	
R223	2007-000152	R-CHIP;20Kohm,5%,1/16W,TP,1005	1	SNA		R311	2007-000695	R-CHIP;3.3ohm,5%,1/10W,TP,1608	1	SNA	
R23	2007-000570	R-CHIP;220ohm,1%,1/10W,TP,1608	1	SA		R312	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	1	SNA	
R230	3301-002039	BEAD-SMD;26ohm,1608,TP	1	SA		R313	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	1	SNA	
R232	2007-000152	R-CHIP;20Kohm,5%,1/16W,TP,1005	1	SNA		R314	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
R233	2007-007318	R-CHIP;1Kohm,1%,1/16W,TP,1005	1	SNA		R315	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
R235	2007-000939	R-CHIP;47Kohm,1%,1/10W,TP,1608	1	SA		R316	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
R24	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA		R317	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
R244	2007-000962	R-CHIP;5.1Kohm,1%,1/10W,TP,1608	1	SA		R32	2007-008015	R-CHIP;75ohm,1%,1/16W,TP,1005	1	SNA	
R25	2007-008015	R-CHIP;75ohm,1%,1/16W,TP,1005	1	SNA		R320	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
R254	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA		R322	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	1	SNA	
R255	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA		R323	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	1	SNA	
R256	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA		R325	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	SNA	
R259	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA		R328	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	SNA	
R26	2007-008015	R-CHIP;75ohm,1%,1/16W,TP,1005	1	SNA		R33	2007-008015	R-CHIP;75ohm,1%,1/16W,TP,1005	1	SNA	

Exploded Views and Parts List

Loc.No	Parts No	Description / Specification	Qty	S.N.A	Remark	Loc.No	Parts No	Description / Specification	Qty	S.N.A	Remark
R34	2007-000143	R-CHIP:4.7Kohm,5%,1/16W,TP,1005	1	SNA		VT12	1405-001192	VARISTOR;12Vdc,30A,1.6x0.8x0.55mm,T	1	SA	
R344	2007-007008	R-CHIP:300ohm,5%,1/16W,TP,1005	1	SNA							
R345	2007-001292	R-CHIP:33ohm,5%,1/16W,TP,1005	1	SNA		VT13	1405-001192	VARISTOR;12Vdc,30A,1.6x0.8x0.55mm,T	1	SA	
R346	2007-001292	R-CHIP:33ohm,5%,1/16W,TP,1005	1	SNA		VT14	1405-001192	VARISTOR;12Vdc,30A,1.6x0.8x0.55mm,T	1	SA	
R347	2007-001292	R-CHIP:33ohm,5%,1/16W,TP,1005	1	SNA		VT15	1405-001192	VARISTOR;12Vdc,30A,1.6x0.8x0.55mm,T	1	SA	
						VT16	1405-001192	VARISTOR;12Vdc,30A,1.6x0.8x0.55mm,T	1	SA	
R348	2007-000140	R-CHIP:1Kohm,5%,1/16W,TP,1005	1	SNA		VT17	1405-001192	VARISTOR;12Vdc,30A,1.6x0.8x0.55mm,T	1	SA	
R35	2007-000143	R-CHIP:4.7Kohm,5%,1/16W,TP,1005	1	SNA							
R357	2007-000140	R-CHIP:1Kohm,5%,1/16W,TP,1005	1	SNA		VT18	1405-001192	VARISTOR;12Vdc,30A,1.6x0.8x0.55mm,T	1	SA	
R358	2007-000162	R-CHIP:100Kohm,5%,1/16W,TP,1005	1	SNA		VT19	1405-001192	VARISTOR;12Vdc,30A,1.6x0.8x0.55mm,T	1	SA	
R359	2007-000157	R-CHIP:47Kohm,5%,1/16W,TP,1005	1	SNA		VT22	1405-001192	VARISTOR;12Vdc,30A,1.6x0.8x0.55mm,T	1	SA	
						VT23	1405-001192	VARISTOR;12Vdc,30A,1.6x0.8x0.55mm,T	1	SA	
R36	2007-001038	R-CHIP:56Kohm,1%,1/10W,TP,1608	1	SA		VT28	1405-001192	VARISTOR;12Vdc,30A,1.6x0.8x0.55mm,T	1	SA	
R37	2007-007441	R-CHIP:562ohm,1%,1/10W,TP,1608	1	SNA							
R38	2007-007441	R-CHIP:562ohm,1%,1/10W,TP,1608	1	SNA		VT29	1405-001192	VARISTOR;12Vdc,30A,1.6x0.8x0.55mm,T	1	SA	
R39	2007-000148	R-CHIP:10Kohm,5%,1/16W,TP,1005	1	SNA		VT34	1405-001192	VARISTOR;12Vdc,30A,1.6x0.8x0.55mm,T	1	SA	
R4	2007-000140	R-CHIP:1Kohm,5%,1/16W,TP,1005	1	SNA		X1	2801-004284	CRYSTAL-SMD;27MHz,10ppm,28-AAN,20pF	1	SA	
						X2	2802-001164	RESONATOR-CERAMIC;8.000MHZ,±0.5%,T	1	SNA	
R40	2007-000148	R-CHIP:10Kohm,5%,1/16W,TP,1005	1	SNA		AK97-03846A	ASSY SMD;BD-C5300/XEF,MAIN PCB ASSY	1	SNA		
R41	2007-000148	R-CHIP:10Kohm,5%,1/16W,TP,1005	1	SNA							
R43	2007-008015	R-CHIP:75ohm,1%,1/16W,TP,1005	1	SNA							
R44	2007-008015	R-CHIP:75ohm,1%,1/16W,TP,1005	1	SNA							
R45	2007-008015	R-CHIP:75ohm,1%,1/16W,TP,1005	1	SNA							
R46	2007-008015	R-CHIP:75ohm,1%,1/16W,TP,1005	1	SNA							
R47	2007-007467	R-CHIP:12.1Kohm,1%,1/16W,TP,1005	1	SA							
R48	2007-001292	R-CHIP:33ohm,5%,1/16W,TP,1005	1	SNA							
R5	2007-000979	R-CHIP:5.6Kohm,1%,1/10W,TP,1608	1	SA							
R50	2007-001292	R-CHIP:33ohm,5%,1/16W,TP,1005	1	SNA							
R51	2007-000152	R-CHIP:20Kohm,5%,1/16W,TP,1005	1	SNA							
R52	2007-007156	R-CHIP:1ohm,5%,1/16W,TP,1005	1	SNA							
R53	2007-000431	R-CHIP:16Kohm,5%,1/10W,TP,1608	1	SA							
R54	2007-000149	R-CHIP:12Kohm,5%,1/16W,TP,1005	1	SA							
R55	2007-000143	R-CHIP:4.7Kohm,5%,1/16W,TP,1005	1	SNA							
R56	2007-000137	R-CHIP:2Kohm,5%,1/16W,TP,1005	1	SNA							
R57	2007-000152	R-CHIP:20Kohm,5%,1/16W,TP,1005	1	SNA							
R58	2007-007156	R-CHIP:1ohm,5%,1/16W,TP,1005	1	SNA							
R59	2007-007156	R-CHIP:1ohm,5%,1/16W,TP,1005	1	SNA							
R65	2007-000137	R-CHIP:2Kohm,5%,1/16W,TP,1005	1	SNA							
R66	2007-001329	R-CHIP:7.5Kohm,5%,1/16W,TP,1005	1	SA							
R67	2007-000148	R-CHIP:10Kohm,5%,1/16W,TP,1005	1	SNA							
R69	2007-000695	R-CHIP:3.3ohm,5%,1/10W,TP,1608	1	SNA							
R70	2007-007156	R-CHIP:1ohm,5%,1/16W,TP,1005	1	SNA							
R71	2007-000078	R-CHIP:1Kohm,5%,1/10W,TP,1608	1	SA							
R72	2007-000155	R-CHIP:27Kohm,5%,1/16W,TP,1005	1	SNA							
R73	2007-008015	R-CHIP:75ohm,1%,1/16W,TP,1005	1	SNA							
R77	2007-000140	R-CHIP:1Kohm,5%,1/16W,TP,1005	1	SNA							
R78	2007-000148	R-CHIP:10Kohm,5%,1/16W,TP,1005	1	SNA							
R79	2007-000143	R-CHIP:4.7Kohm,5%,1/16W,TP,1005	1	SNA							
R8	2007-000156	R-CHIP:30Kohm,5%,1/16W,TP,1005	1	SA							
R80	2007-000148	R-CHIP:10Kohm,5%,1/16W,TP,1005	1	SNA							
R81	2007-007315	R-CHIP:3.9Kohm,1%,1/16W,TP,1005	1	SNA							
R82	2007-000148	R-CHIP:10Kohm,5%,1/16W,TP,1005	1	SNA							
R83	2007-000148	R-CHIP:10Kohm,5%,1/16W,TP,1005	1	SNA							
R84	2007-000148	R-CHIP:10Kohm,5%,1/16W,TP,1005	1	SNA							
R85	2007-000148	R-CHIP:10Kohm,5%,1/16W,TP,1005	1	SNA							
R86	2007-000140	R-CHIP:1Kohm,5%,1/16W,TP,1005	1	SNA							
R87	2007-007156	R-CHIP:1ohm,5%,1/16W,TP,1005	1	SNA							
R89	2007-000148	R-CHIP:10Kohm,5%,1/16W,TP,1005	1	SNA							
R9	2007-000140	R-CHIP:1Kohm,5%,1/16W,TP,1005	1	SNA							
R90	2007-000148	R-CHIP:10Kohm,5%,1/16W,TP,1005	1	SNA							
R91	2007-007156	R-CHIP:1ohm,5%,1/16W,TP,1005	1	SNA							
R92	2007-000242	R-CHIP:1.5Kohm,5%,1/16W,TP,1005	1	SNA							
R95	2007-000242	R-CHIP:1.5Kohm,5%,1/16W,TP,1005	1	SNA							
R97	2007-000148	R-CHIP:10Kohm,5%,1/16W,TP,1005	1	SNA							
R98	2007-000148	R-CHIP:10Kohm,5%,1/16W,TP,1005	1	SNA							
R99	2007-000431	R-CHIP:16Kohm,5%,1/10W,TP,1608	1	SA							
VT11	1405-001192	VARISTOR;12Vdc,30A,1.6x0.8x0.55mm,T	1	SA							

Loc.No	Parts No	Description / Specification	Qty	S.N.A	Remark
PF1S	3602-000103	FUSE-CLIP;-,-,10mohm	1	SNA	
PF2S	3602-000103	FUSE-CLIP;-,-,10mohm	1	SNA	
PT01	AK26-00043A	TRANS SWITCHING;ER2828,BD-C5500,VAR	1	SNA	
R1S01	2002-001013	R-COMPOSITION;4.7Mohm,5%,1/2W,AA,TP	1	SA	
R1S02	1404-001361	THERMISTOR-NTC;3ohm,4A,-,35mW/C,0uF	1	SA	
R1S10	2003-002357	R-METAL OXIDE(S);330Kohm,5%,1W,AF,T	1	SNA	
R1S11	2001-000568	R-CARBON;27ohm,5%,1/8W,AA,TP,1.8x3.	1	SA	
R1S13	2003-002213	R-METAL OXIDE(S);0.82ohm,5%,2W,AF,T	1	SA	
R1S14	2001-000527	R-CARBON;22ohm,5%,1/8W,AA,TP,1.8x3.	1	SA	
R1S30	3811-001868	WIRE-NO SHEATH CU;SnCuFe,52mm,GRY	1	SA	
R1S32	2001-000440	R-CARBON;1ohm,5%,1/8W,AA,TP,1.8x3.2	1	SA	
R1S35	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.	1	SA	
R1S36	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.	1	SA	
R1S37	2001-000331	R-CARBON;12Kohm,5%,1/8W,AA,TP,1.8x3	1	SA	
R1S38	2004-000869	R-METAL;3Kohm,1%,1/8W,AA,TP,1.8x3.2	1	SA	
R1S39	2004-000433	R-METAL;1Kohm,1%,1/8W,AA,TP,1.8x3.2	1	SA	
VA1S01	1405-000152	VARISTOR;560V,2500A,14x8.5mm,TP	1	SA	
W101	3811-001868	WIRE-NO SHEATH CU;SnCuFe,52mm,GRY	1	SA	
W102	3811-001868	WIRE-NO SHEATH CU;SnCuFe,52mm,GRY	1	SA	
W103	3811-001868	WIRE-NO SHEATH CU;SnCuFe,52mm,GRY	1	SA	
W104	3811-001868	WIRE-NO SHEATH CU;SnCuFe,52mm,GRY	1	SA	
W105	3811-001868	WIRE-NO SHEATH CU;SnCuFe,52mm,GRY	1	SA	
W109	3811-001868	WIRE-NO SHEATH CU;SnCuFe,52mm,GRY	1	SA	
ZD1S11	0403-000720	DIODE-ZENER;MTZJ9.1B,8.57/9.01V,500	1	SA	
	AK97-03759A	ASSY AUTO;AK94-00324B	1	SNA	
MR01AAK94-00285B ASSY PCB FRONT-BD-C5300-BD-C5300,AS 1 SA					
C1	2202-000173	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P	1	SA	
C2	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5	1	SA	
C3	2401-001502	C-AL;47uF,20%,16V,GP,TP,6.3x5.2,5	1	SA	
C4	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5	1	SA	
CON1	3708-001762	CONNECTOR-FPC/FFC/PIC;22P,1mm,ANGLE	1	SA	
CON2	3708-002161	CONNECTOR-FPC/FFC/PIC;5P,1mm,ANGLE,	1	SA	
CON3	3708-002161	CONNECTOR-FPC/FFC/PIC;5P,1mm,ANGLE,	1	SA	
D1	0403-000718	DIODE-ZENER;MTZJ6.8B,6.49/6.83V,500	1	SA	
E1	2401-001502	C-AL;47uF,20%,16V,GP,TP,6.3x5.2,5	1	SA	
FC551	3809-002551	FFC CABLE-FLAT;30V,80C,100mm,22P,1.	1	SA	
FC552	3809-002552	FFC CABLE-FLAT;30V,80C,40mm,5P,1.0m	1	SA	
FC557	3809-002557	FFC CABLE-FLAT;30V,80C,95mm,5P,1mm,	1	SA	
HP_SUB	0204-002420	SOLVENT;1M-1000,C3H7OH,96	0.00018	SNA	
HP_SUB	0202-001463	SOLDER-WIRE;LFC2-W3.0,-,D3,99.79Sn/	0.469	SNA	
HP_SUB	0202-001608	SOLDER-WIRE FLUX;LFC7-107,D0.8,99.3	0.00075	SNA	
HP_SUB	0204-002607	FLUX;DF-234U,13%,14KG,Gravity 0.82	0.117	SNA	
HP_SUB	0202-001477	SOLDER-CREAM;LST309-M,D20-45um,96.5	0.0073	SNA	
IC1	AK07-00073A	VF DISPLAY;HNV-07SS81T,BD-C5500,78.	1	SNA	
IR	0609-001202	MODULE REMOCON;HORIZONTAL,12.4mm,TR	1	SA	
J10	3811-001868	WIRE-NO SHEATH CU;SnCuFe,52mm,GRY	1	SA	
J11	3811-001868	WIRE-NO SHEATH CU;SnCuFe,52mm,GRY	1	SA	
J12	3811-001868	WIRE-NO SHEATH CU;SnCuFe,52mm,GRY	1	SA	
J14	3811-001868	WIRE-NO SHEATH CU;SnCuFe,52mm,GRY	1	SA	
J19	3811-001868	WIRE-NO SHEATH CU;SnCuFe,52mm,GRY	1	SA	
J22	3811-001868	WIRE-NO SHEATH CU;SnCuFe,52mm,GRY	1	SA	
J23	3811-001868	WIRE-NO SHEATH CU;SnCuFe,52mm,GRY	1	SA	
J24	3811-001868	WIRE-NO SHEATH CU;SnCuFe,52mm,GRY	1	SA	
J25	3811-001868	WIRE-NO SHEATH CU;SnCuFe,52mm,GRY	1	SA	
J26	3811-001868	WIRE-NO SHEATH CU;SnCuFe,52mm,GRY	1	SA	
J28	3811-001868	WIRE-NO SHEATH CU;SnCuFe,52mm,GRY	1	SA	
J30	3811-001868	WIRE-NO SHEATH CU;SnCuFe,52mm,GRY	1	SA	
PCB	AK41-00966A	PCB-FRONT VFD;BD-C6500,FR-1,1.00,1.	0.25	SNA	
R1	2001-001000	R-CARBON;82Kohm,5%,1/8W,AA,TP,1.8x3	1	SA	
R2	2001-000273	R-CARBON;100Kohm,5%,1/8W,AA,TP,1.8x	1	SA	
R3	2001-000793	R-CARBON;47ohm,5%,1/8W,AA,TP,1.8x3.	1	SA	
R4	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3	1	SA	

Loc.No	Parts No	Description / Specification	Qty	S.N.A	Remark
R5	2001-000027	R-CARBON;100ohm,5%,1/4W,AA,TP,2.4x6	1	SA	
R6	2001-000027	R-CARBON;100ohm,5%,1/4W,AA,TP,2.4x6	1	SA	
R7	2001-000666	R-CARBON;33ohm,5%,1/8W,AA,TP,1.8x3.	1	SNA	
R8	2001-000666	R-CARBON;33ohm,5%,1/8W,AA,TP,1.8x3.	1	SNA	
VFD2	1003-002176	IC-VFD;MC3401,LQFP,44P,10x10mm,-40m	1	SA	
VFD-HO	AK61-00999A	HOLDER-VFD;BD-C5300/XAA,ABS,T2.0,W7	1	SNA	
	0103-004609	RESIN-ABS;BK0007,HB,ABS,High Flow A	4.5	SNA	
	AK63-00611A	SHEET-WINDOW;BD-C5300/XAA,PC,T0.5,W	1	SNA	
	AK97-03490B	ASSY AUTO-BD-C5300;BD-C5300,BD-C530	1	SNA	
	AK97-04077A	ASSY SMD-BD-C5300;AK94-00285B	1	SNA	
PSU01AAK94-00282A ASSY PCB S-SUB-USB-BD-C5500/XAA,ASS 1 SA					
CON1	3708-002161	CONNECTOR-FPC/FFC/PIC;5P,1mm,ANGLE,	1	SA	
HP_SUB	0202-001608	SOLDER-WIRE FLUX;LFC7-107,D0.8,99.3	0.003	SNA	
HP_SUB	0202-001463	SOLDER-WIRE;LFC2-W3.0,-,D3,99.79Sn/	1.58	SNA	
HP_SUB	0204-002420	SOLVENT;1M-1000,C3H7OH,96	0.00011	SNA	
HP_SUB	0204-002607	FLUX;DF-234U,13%,14KG,Gravity 0.82	0.071	SNA	
PCB	AK41-00960A	PCB SUB-USB;BD-C5300/BD-C6500,FR-1,	0.083	SNA	
USBJAC	3722-002683	JACK-USB;4P/1C,AU,BLACK,STRAIGHT,A	1	SA	
MK01AAK94-00281D ASSY PCB KEY-TOUCH-BD-C6500/XAA,ASS 1 SNA					
CN1	3708-002140	CONNECTOR-FPC/FFC/PIC;5P,1mm,SMD-S,	1	SNA	
D1	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,	1	SNA	
D2	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,	1	SNA	
D3	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,	1	SNA	
D4	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,	1	SNA	
D5	0406-001239	DIODE-TVS;RClamp0502B,6/-/-V,125V,S	1	SA	
HP_SUB	0202-001477	SOLDER-CREAM;LST309-M,D20-45um,96.5	0.006	SNA	
LEDO	0601-002908	LED;SMD(SIDE VIEW),WHT,3.8x1.2mm,3.	1	SNA	
LEDP	0601-002908	LED;SMD(SIDE VIEW),WHT,3.8x1.2mm,3.	1	SNA	
LEDPW	0601-002908	LED;SMD(SIDE VIEW),WHT,3.8x1.2mm,3.	1	SNA	
LEDS	0601-002908	LED;SMD(SIDE VIEW),WHT,3.8x1.2mm,3.	1	SNA	
PCB	AK41-00962B	PCB-TOUCH KEY;BD-C5500/BD-C6500,SIL	0.125	SNA	
R1	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	SNA	
R16	2007-007156	R-CHIP;1ohm,5%,1/16W,TP,1005	1	SNA	
R2	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	SNA	
TC11	2203-006890	C-CER,CHIP;1000nF,20%,6.3V,X5R,160	1	SNA	
TC16	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,160	1	SNA	
TC2	2203-005993	C-CER,CHIP;68nF,10%,16V,X7R,TP,1005	1	SA	
TC3	2203-005393	C-CER,CHIP;0.005nF,0.1pF,50V,NP0,TP	1	SNA	
TC4	2203-005993	C-CER,CHIP;68nF,10%,16V,X7R,TP,1005	1	SA	
TC5	2203-005393	C-CER,CHIP;0.005nF,0.1pF,50V,NP0,TP	1	SNA	
TC6	2203-005993	C-CER,CHIP;68nF,10%,16V,X7R,TP,1005	1	SA	
TC7	2203-005393	C-CER,CHIP;0.005nF,0.1pF,50V,NP0,TP	1	SNA	
TC8	2203-005993	C-CER,CHIP;68nF,10%,16V,X7R,TP,1005	1	SA	
TC9	2203-005393	C-CER,CHIP;0.005nF,0.1pF,50V,NP0,TP	1	SNA	
TIC1	1209-001962	IC-SENSOR;MST09S24BLQ-T014,24-QFN,2	1	SA	
TR1	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SNA	
TR10	2007-000152	R-CHIP;20Kohm,5%,1/16W,TP,1005	1	SNA	
TR11	2007-003012	R-CHIP;2.2Mohm,5%,1/16W,TP,1005	1	SNA	
TR12	2007-000152	R-CHIP;20Kohm,5%,1/16W,TP,1005	1	SNA	
TR13	2007-003012	R-CHIP;2.2Mohm,5%,1/16W,TP,1005	1	SNA	
TR2	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SNA	
TR3	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SNA	
TR30	2007-000139	R-CHIP;220ohm,5%,1/16W,TP,1005	1	SNA	
TR31	2007-000139	R-CHIP;220ohm,5%,1/16W,TP,1005	1	SNA	
TR32	2007-000139	R-CHIP;220ohm,5%,1/16W,TP,1005	1	SNA	
TR33	2007-000139	R-CHIP;220ohm,5%,1/16W,TP,1005	1	SNA	
TR4	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SNA	
TR6	2007-000152	R-CHIP;20Kohm,5%,1/16W,TP,1005	1	SNA	
TR7	2007-003012	R-CHIP;2.2Mohm,5%,1/16W,TP,1005	1	SNA	

Exploded Views and Parts List

Loc.No	Parts No	Description / Specification	Qty	S.N.A	Remark	Loc.No	Parts No	Description / Specification	Qty	S.N.A	Remark
TR8	2007-000152	R-CHIP;20Kohm,5%,1/16W,TP,1005	1	SNA		0103-005096	RESIN-ABS;HB,ABS+PMMA	25	SNA		
TR9	2007-003012	R-CHIP;2.2Mohm,5%,1/16W,TP,1005	1	SNA		0103-007279	RESIN-PMMA;TP0010,HB,PMMA,PMMA/Clea	15	SNA		
	AK97-04159A	ASSY SMD-TOUCH;AK94-00281D	1	SNA		0103-007279	RESIN-PMMA;TP0010,HB,PMMA,PMMA/Clea	15	SNA		
						AA63-01386A	GASKET-EMI,SPONGE;SP-P300M,Conducti	1	SNA		
						AK61-01001A	HOLDER-TOUCH;BD-C5300/XAA,ABS,T2,43	1	SNA		
						AK63-00637A	SHEET-FUNCTION;BD-C5300/XAA,PET,T0.1	1	SNA		
						AK63-00684A	SHEET-HOLDER TOUCH;BD-C5300,FELT,0.	1	SNA		
						AK64-02439A	DECO PANEL-L;BD-C5300/XAA,PMMA,T2,1	1	SNA		
						AK64-02440A	DECO PANEL-R;BD-C5300/XAA,PMMA,T2,1	1	SNA		
						AK68-01941Q	MANUAL USERS;BD-C5300,XEF,FRA,ITA,E	1	SNA		
						6801-001763	CARD-REGISTRATION;Europe Registrati	1	SNA		
						AK97-02206A	ASSY BAG-PE;BAG PE,HT-X20R,HT-X20R,	1	SNA		
						AK94-00333A	ASSY PCB SMPS-SKD;BD-C5500/XER,BD-C	1	SNA		
						AK68-01955E	LABEL-POP STAND;BD-C5300/XEF,SEF,AR	1	SNA		
						AK69-00821B	BOX-SET;BD-C5300/XEF,CB,SW2, A-1, O	1	SNA		
						6902-000604	BAG WRAPPING;LDPE,T0.02,W500,L10000	0.9	SNA		
						AK63-00435B	SHEET-NITRON;BD-C5300/XAA,NITRON,0.	1	SNA		
						BN69-00257B	PACKING-PAD;PAPER,CB-SW4,1130,820,Y	0.03	SNA		
						BN69-03982F	PAD PACKING-EDGE;LB6T,PAPER,8,120,2	0.024	SNA		
						BN69-04822Y	PALLET-;WOOD,1050,1150,135,8500,20	0.006	SNA		
						AK90-00071J	ASSY COVER BOTTOM;BD-C5300	1	SNA		
						AK90-00080A	ASSY DECK-SKD;BD-C5500,SEIN,BD-P6A,	1	SNA		
						AK90-00083A	ASSY COVER FRONT;BD-C5300/XEF	1	SNA		
						AK91-01042A	ASSY SHIELD;BD-C5300/XEF,ASSY SHIEL	1	SNA		
						AK92-01949A	ASSY LABEL;BD-C5300/XEF	1	SNA		
						AK92-01964A	ASSY BOX;BD-C5300/XEF	1	SNA		
						AK92-01965A	ASSY P/MATERIAL;BD-C5300/XEF	1	SNA		
ACCE1	AK92-01948B	ASSY ACCESSORY;BD-C5300/EDC	1	SNA							
AS095	AK63-00654E	SHEET-PCB;BD-C6900/XAA,PET,T0.2,W55	1	SNA							
B001A	AK96-01281L	ASSY COVER P-BOTTOM;BD-C5300/XEF,FR	1	SNA							
C- A/V	AC39-42001R	CABLE-A/V;PVC	1	SC							
C011	AK61-00137A	SPRING ETC-DOOR;DVD-R4000,COIL,PI0.	1	SA							
C1023	AK61-00608A	LEG;DVD-VR330,RUBBER,BLK,12	2	SNA							
CC02	AK64-02428L	CHASSIS-BOTTOM;BD-C5300/XEF,EGI-SEC	1	SNA							
CCM1	BN63-05199B	COVER-SHEET;AMBER,PE,T0.08,W65mm,20	0.45	SNA							
CCM1	AK68-01466Y	LABEL RATING;BD-P1600A/XER,SER,PET,	1	SNA							
CIS1	0203-001586	TAPE-FILAMENT;#893,0.15,25,55	0.05	SNA							
CLAMPE	AK65-00001A	CLAMPER CORE-CORD POWER;EXINO,ABS 9	1	SNA							
D001A	AK96-01294A	ASSY ENGINE P-BD DECK;BD-P6A,SEIN,1	1	SA							
F001	AK64-02436A	PANEL-FRONT;BD-C5300/XAA,PC,T2.5,W4	1	SNA							
F001A	AK96-01282A	ASSY COVER P-FRONT;BD-C5300/XEF,SEF	1	SA							
FD03	AK64-02438A	DOOR-TRAY;BD-C5300/XAA,PMMA + ABS H	1	SA							
FD12	AK64-02427A	DOOR-USB;BD-C5500/XAA,ABS BLK + ELA	1	SA							
FW05	AK64-02437A	WINDOW-VFD;BD-C5300/XEF,PMMA+ABS HB	1	SNA							
L-BARC	AH68-00371A	LABEL-BAR CODE;ALL,ALL,ART PAPER,0.	1	SNA							
M0017	AK91-01041A	ASSY CHASSIS;BD-C5300/XEF,ASSY CHAS	1	SNA							
M0045	AK97-01943A	ASSY ACCESSORY;DVD-R157/XAA-,NEXUS	1	SNA							
S.N.A	4301-001035	BATTERY-ALKALINE;1.5V,0mAh,LR03,10.	2	SNA							
S.N.A	0203-001100	TAPE-OPP MASKING;OPP/W75/CLR,T0.075	1.292	SNA							
T001	AK63-00607B	COVER-TOP;BD-C5300/XEF,PCM,T0.45,W5	1	SA							
T0246	AK69-00801A	CUSHION-SET;BD-C5500,EPS,WHITE,16.7	1	SNA							
T0268	AC39-10019A	CBF-POWER CORD;AT,CP2,HOIUNG(2P),25	1	SA							
T0524	6902-000286	BAG PE;LDPE,T0.03,W200,L300,TRP,8,2	1	SNA							
UNIT7A	AK96-01049K	ASSY MANUAL P;BD-C5300,IB,QG,EDC	1	SNA							
UNIT7A	AK96-01408X	ASSY MANUAL P;BD-C5300,IB,CARD,EDC	1	SNA							
W275	6003-001561	SCREW-TAPTYPE;BH,+,-,B,M3,L6,ZPC(WH	4	SA							
W275	6003-001561	SCREW-TAPTYPE;BH,+,-,B,M3,L6,ZPC(WH	3	SA							
W275	6003-001561	SCREW-TAPTYPE;BH,+,-,B,M3,L6,ZPC(WH	4	SA							
W390	6003-000276	SCREW-TAPTYPE;BH,+,-,B,M3,L10,ZPC(W	3	SA							
W391	6003-000275	SCREW-TAPTYPE;BH,+,-,B,M3,L10,ZPC(BLK	1	SA							
W391	6003-000275	SCREW-TAPTYPE;BH,+,-,B,M3,L10,ZPC(BLK	3	SA							
	0103-004618	RESIN-ABS;WT0034,HB,ABS,High Flow A	16	SNA							
	0103-007304	RESIN-PMMA;BK0041,UL-94 HB,PMMA+ABS	100	SNA							
	0103-007304	RESIN-PMMA;BK0041,UL-94 HB,PMMA+ABS	15	SNA							

MEMO

6. PCB Diagrams

6-1 Wiring Diagram ----- 6-2

6-2 Main PCB ----- 6-3

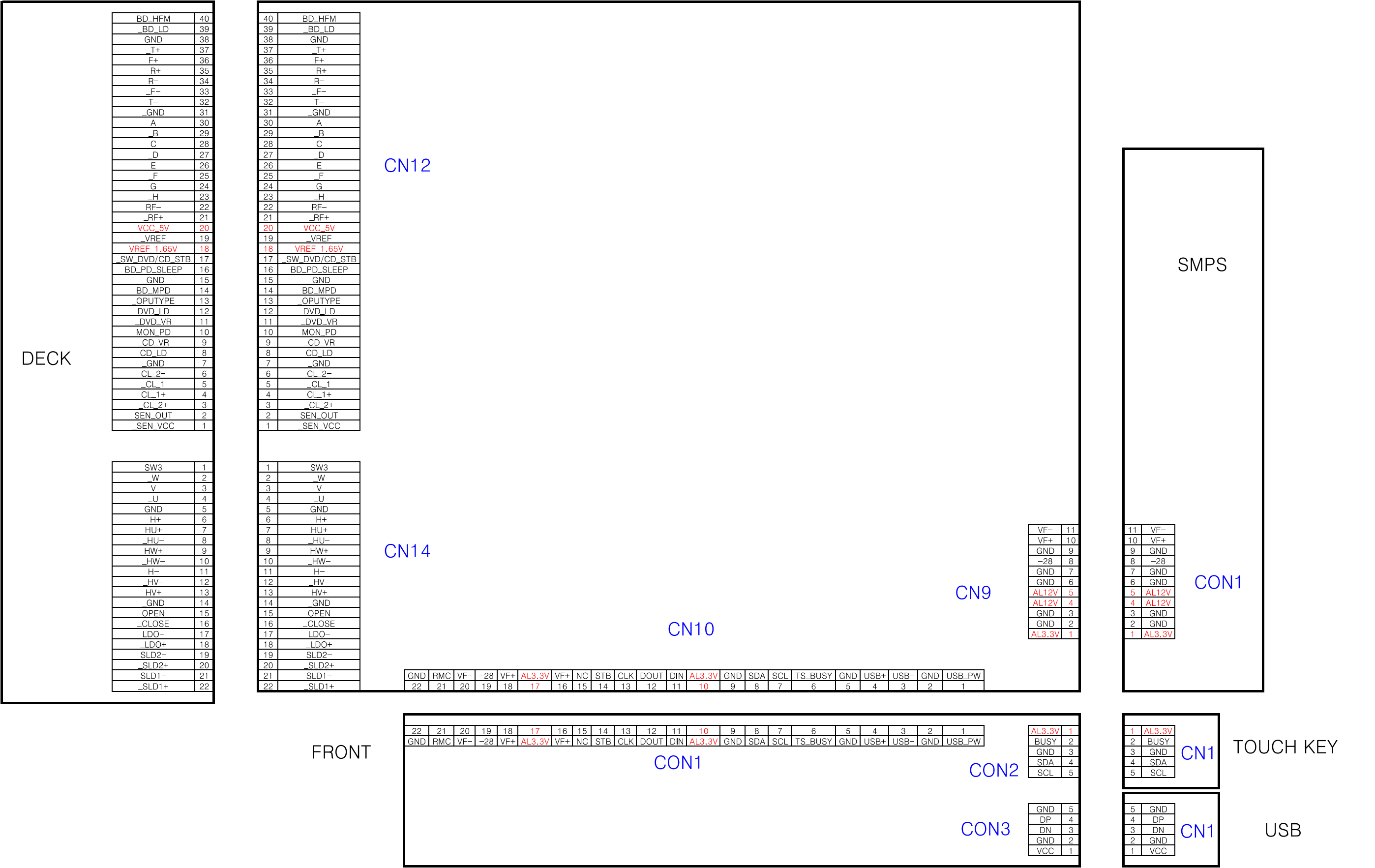
6-3 S.M.P.S PCB----- 6-6

6-4 VFD PCB----- 6-8

6-5 Touch Key PCB ----- 6-9

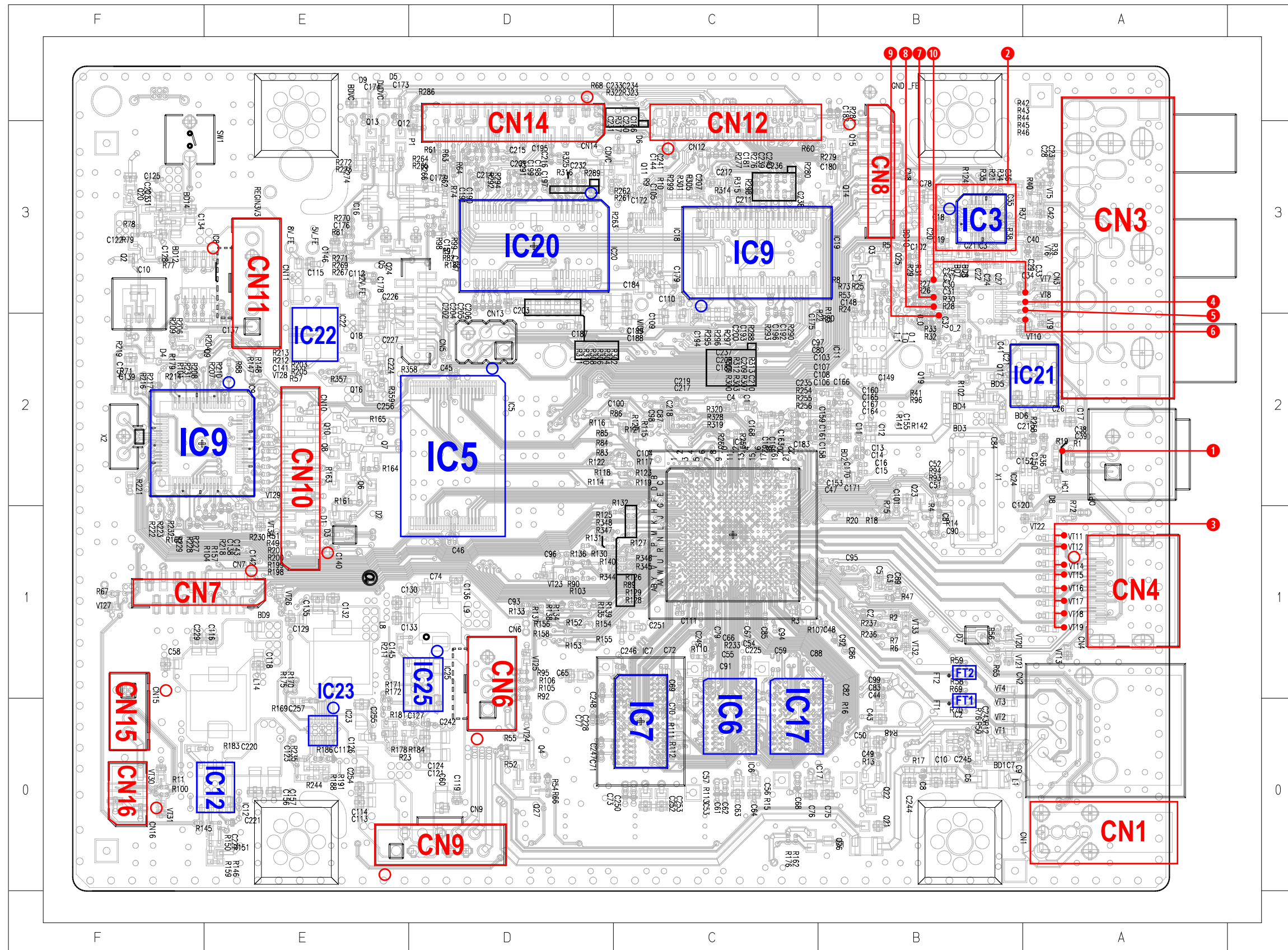
6-6 USB PCB----- 6-10

6-1 Wiring Diagram



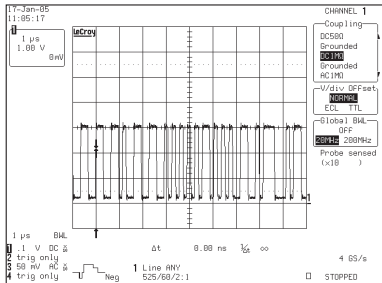
6-2 Main PCB

COMPONENT SIDE

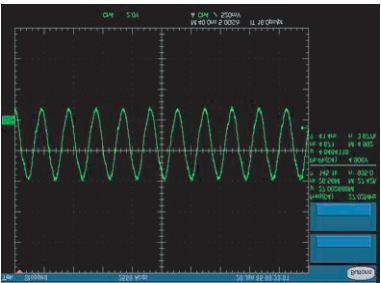


LOC.NO	X-Y
CN1	A-0
CN4	A-1
IC21	A-2
CN3	A-2
FT1	B-0
FT2	B-1
IC3	B-3
CN8	B-3
IC17	C-0
IC6	C-0
IC7	C-0
IC9	C-3
CN12	C-3
CN9	D-0
CN6	D-0
IC25	D-0
IC5	D-1
IC20	D-3
CN14	D-3
IC23	E-0
IC12	E-0
CN7	E-1
CN10	E-1
IC9	E-2
IC22	E-2
CN11	E-2
CN16	F-0
CN15	F-0

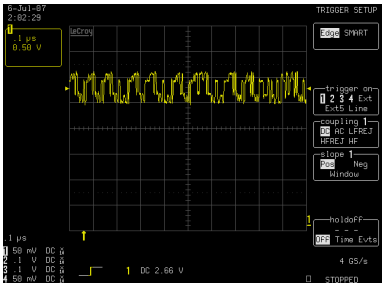
Refer to a pattern image of Table 6-1



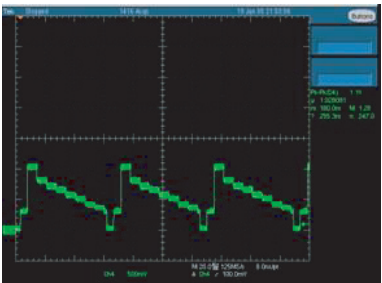
1 DIGITAL AUDIO DATA
R1



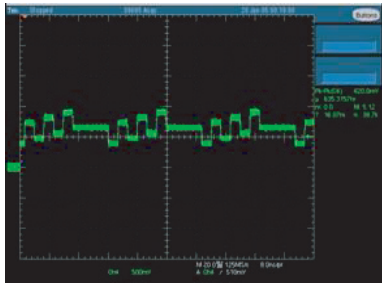
2 ANALOG AUDIO DATA
IC3



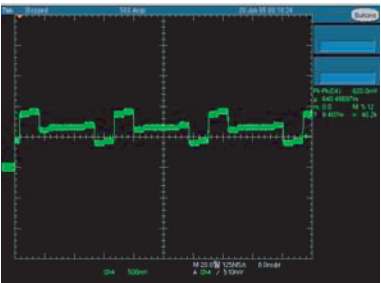
3 HDMI OUTPUT DATA
VT (pin11,12,14~19)



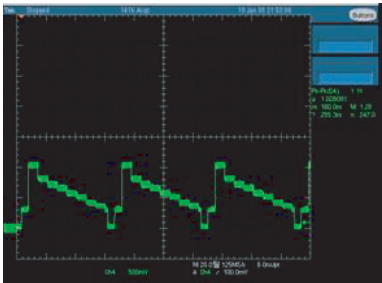
4 Y(Color-bar)
CN3 - R44



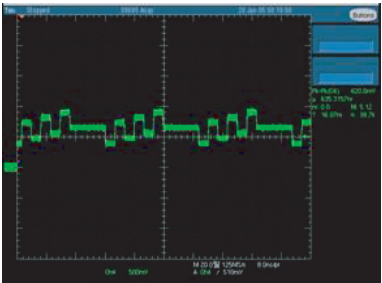
5 Pb(Color-bar)
CN3 - R45



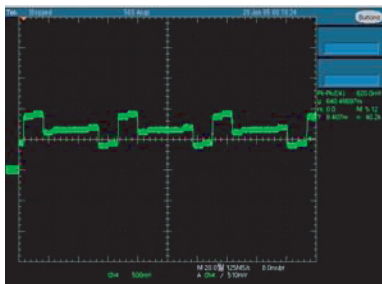
6 Pr(Color-bar)
CN3 - R46



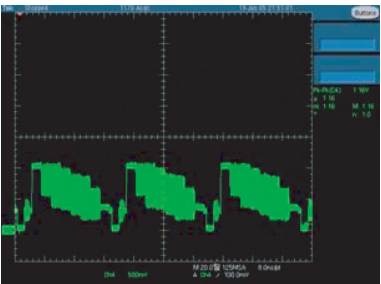
7 Y(Color-bar)
IC4 - C30



8 Pb(Color-bar)
IC4 - C31



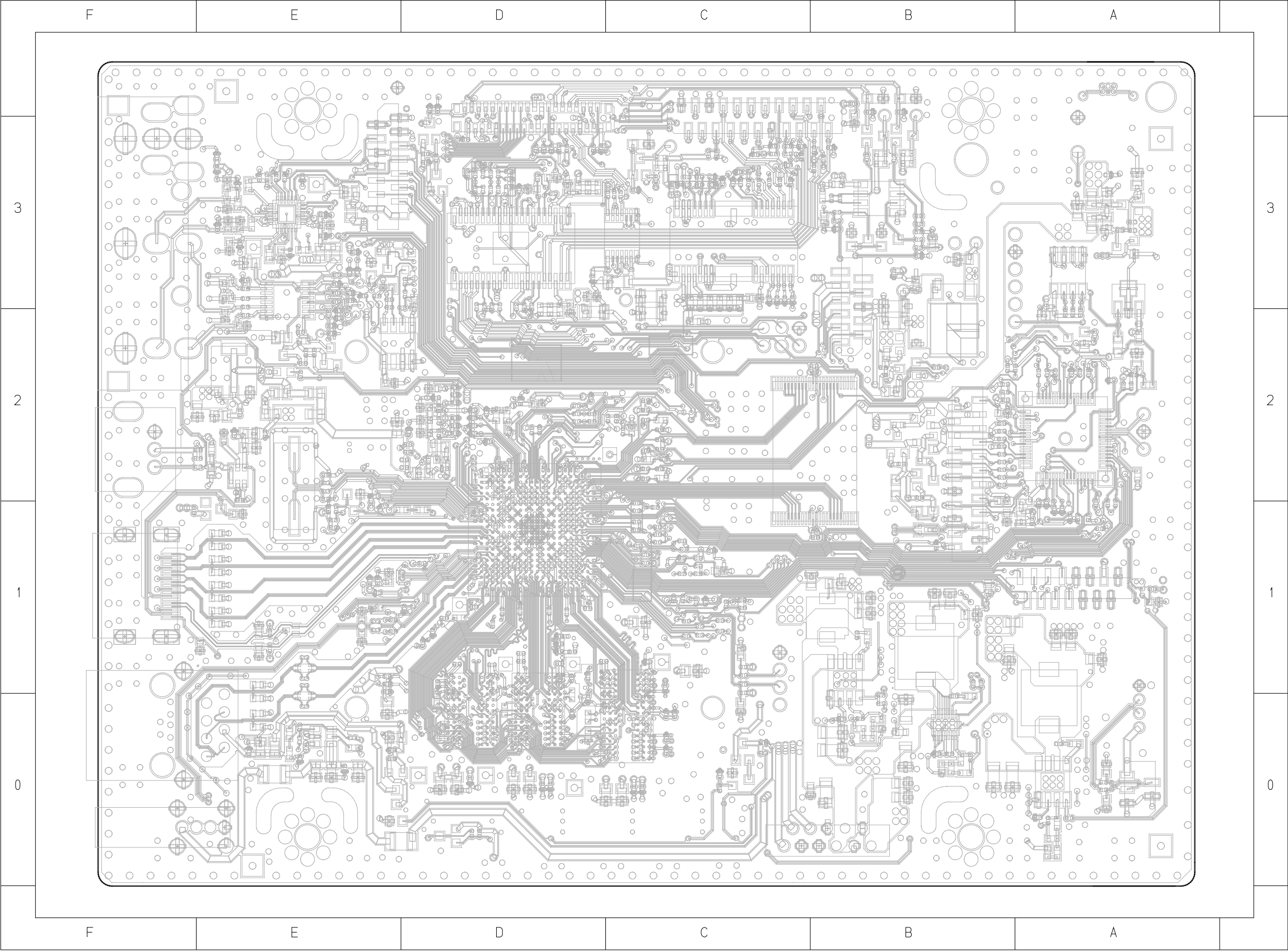
9 Pr(Color-bar)
IC4 - C32



10 CVBS(Color-bar)
Pin (R43, C25)

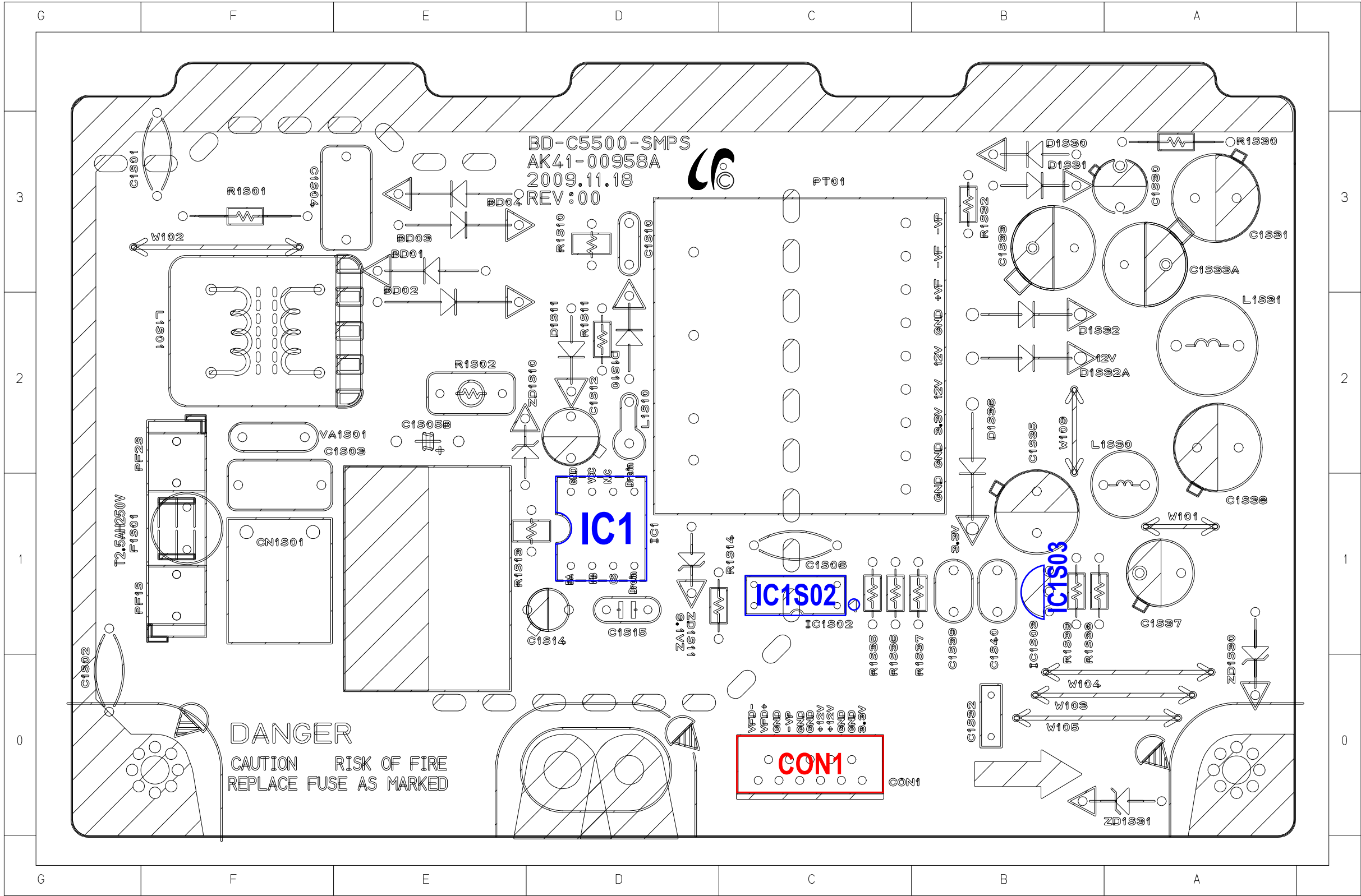
Fig. 6-1

CONDUCTOR SIDE



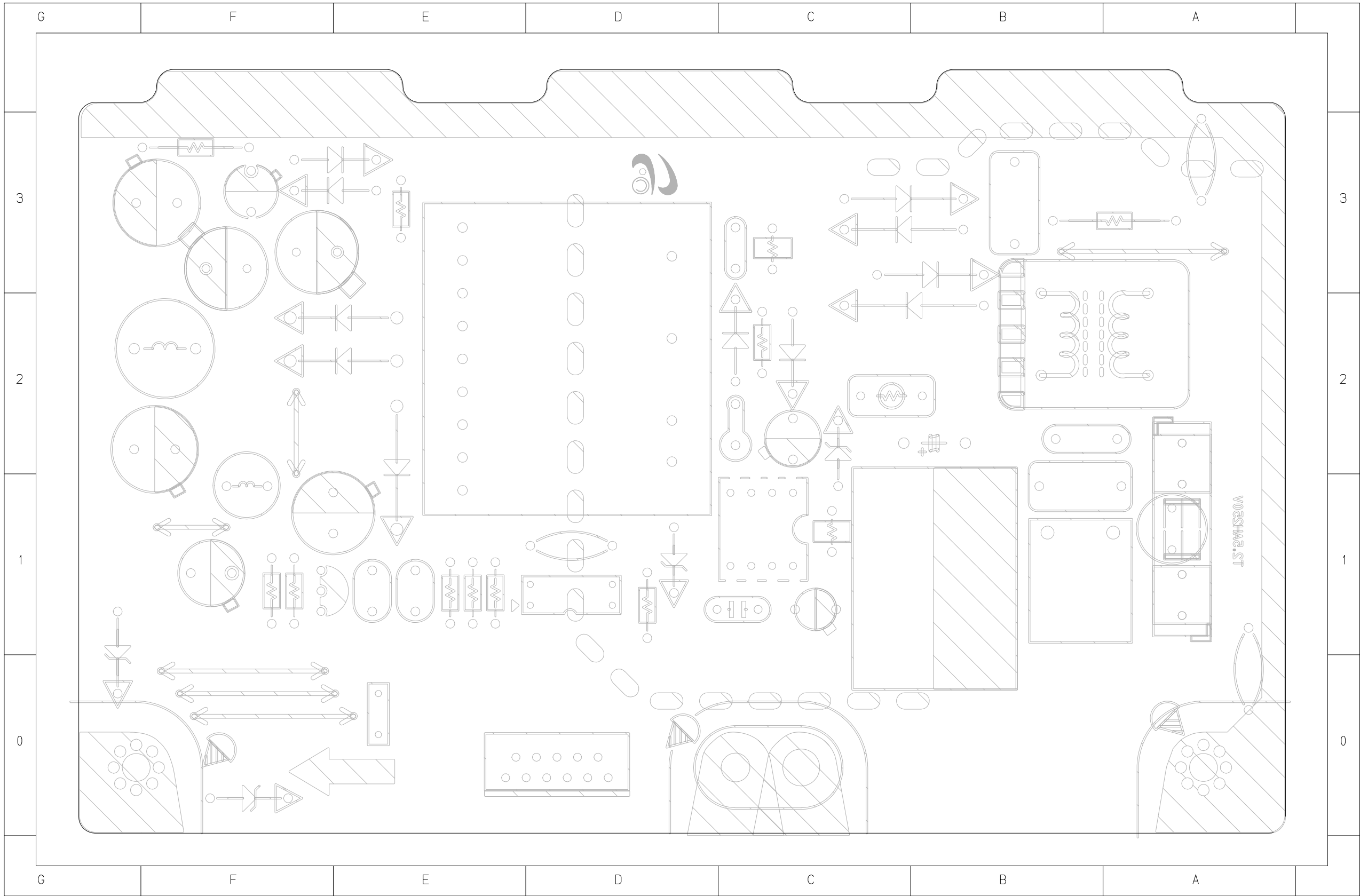
6-3 S.M.P.S PCB

COMPONENT SIDE



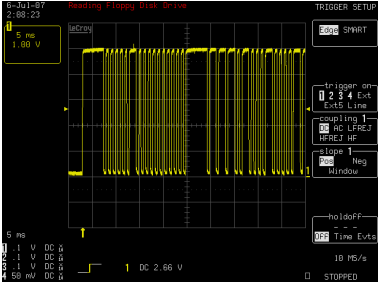
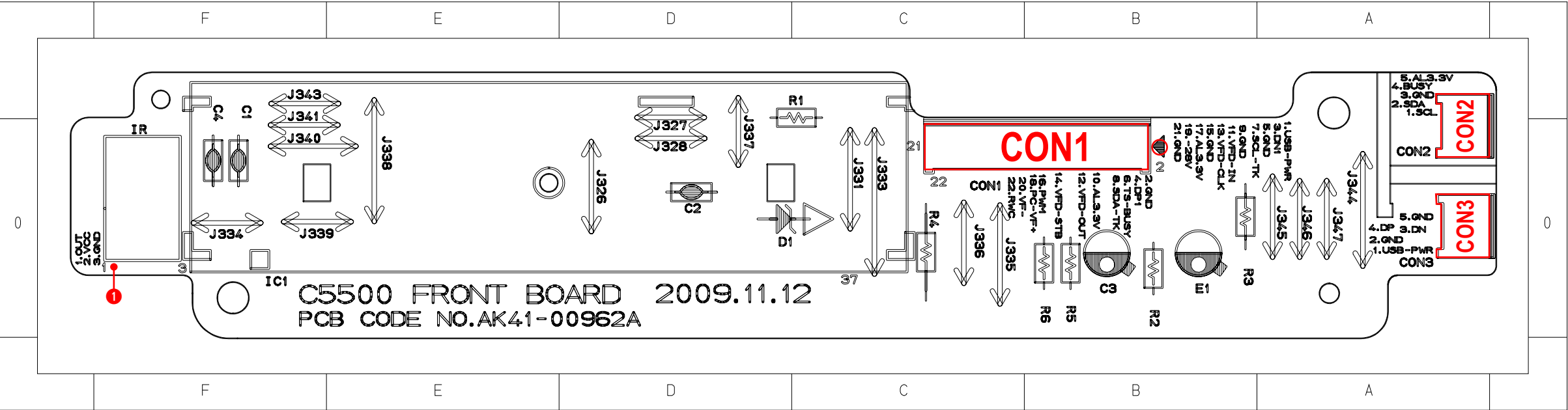
LOC.NO	X-Y
IC1S03	B-1
CON1	C-0
IC1S02	C-1
IC1	D-1

CONDUCTOR SIDE



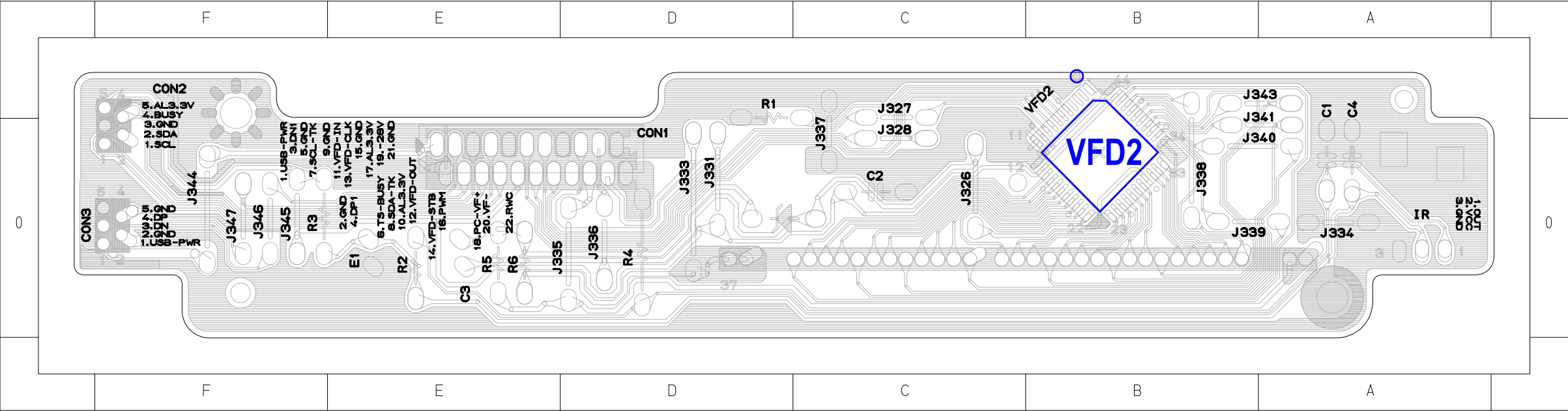
6-4 VFD PCB

COMPONENT SIDE



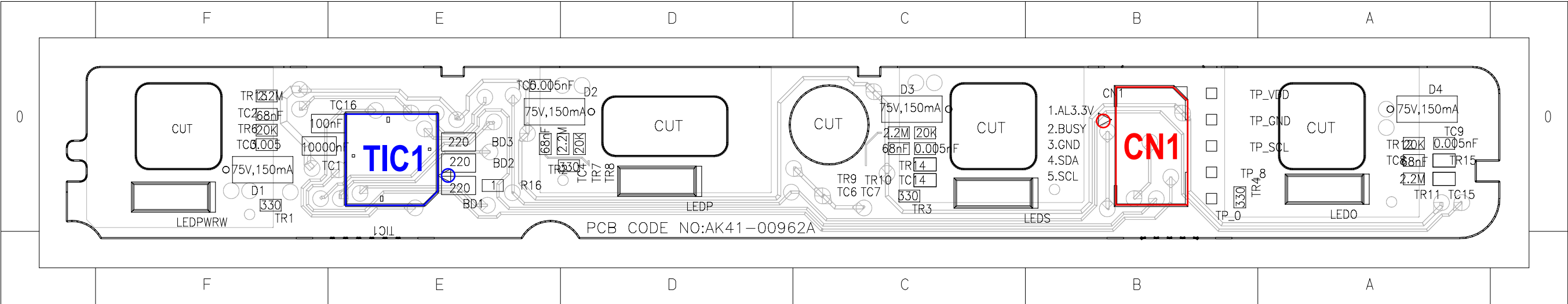
1 Remote control eye data
IR1 Pin1

CONDUCTOR SIDE

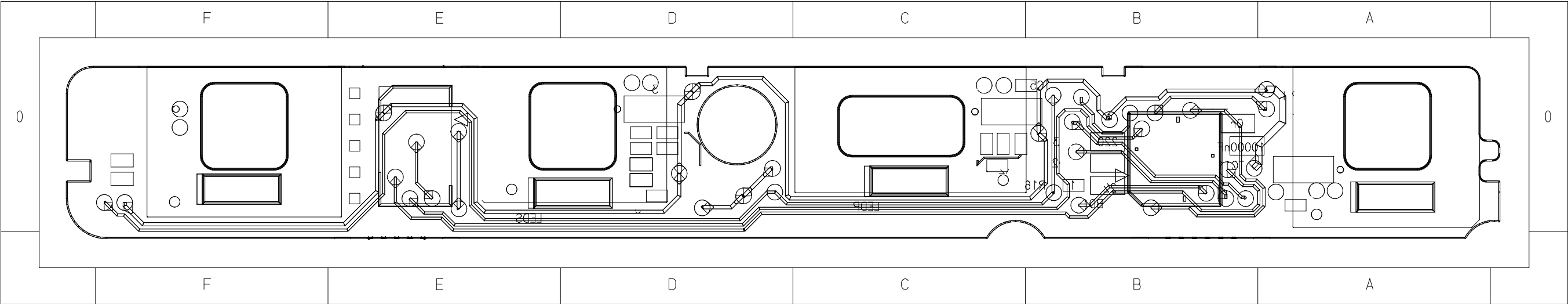


6-5 Touch Key PCB

COMPONENT SIDE



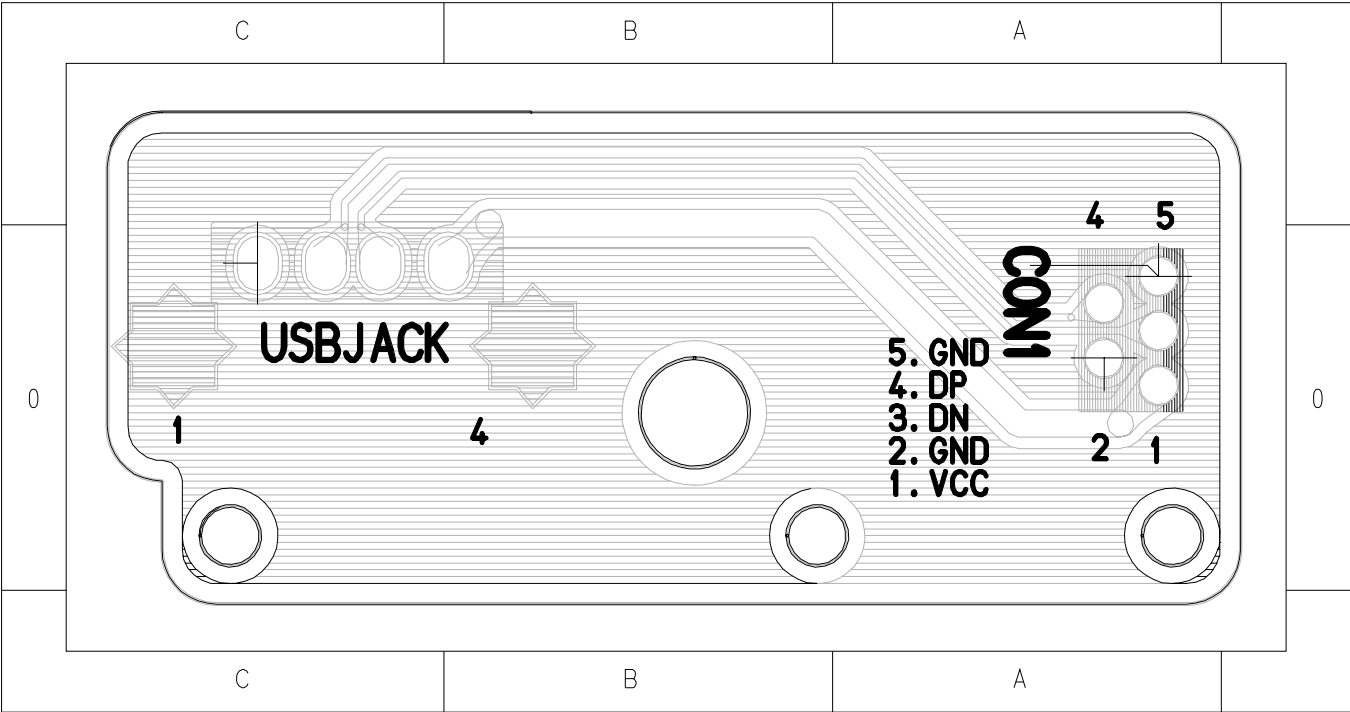
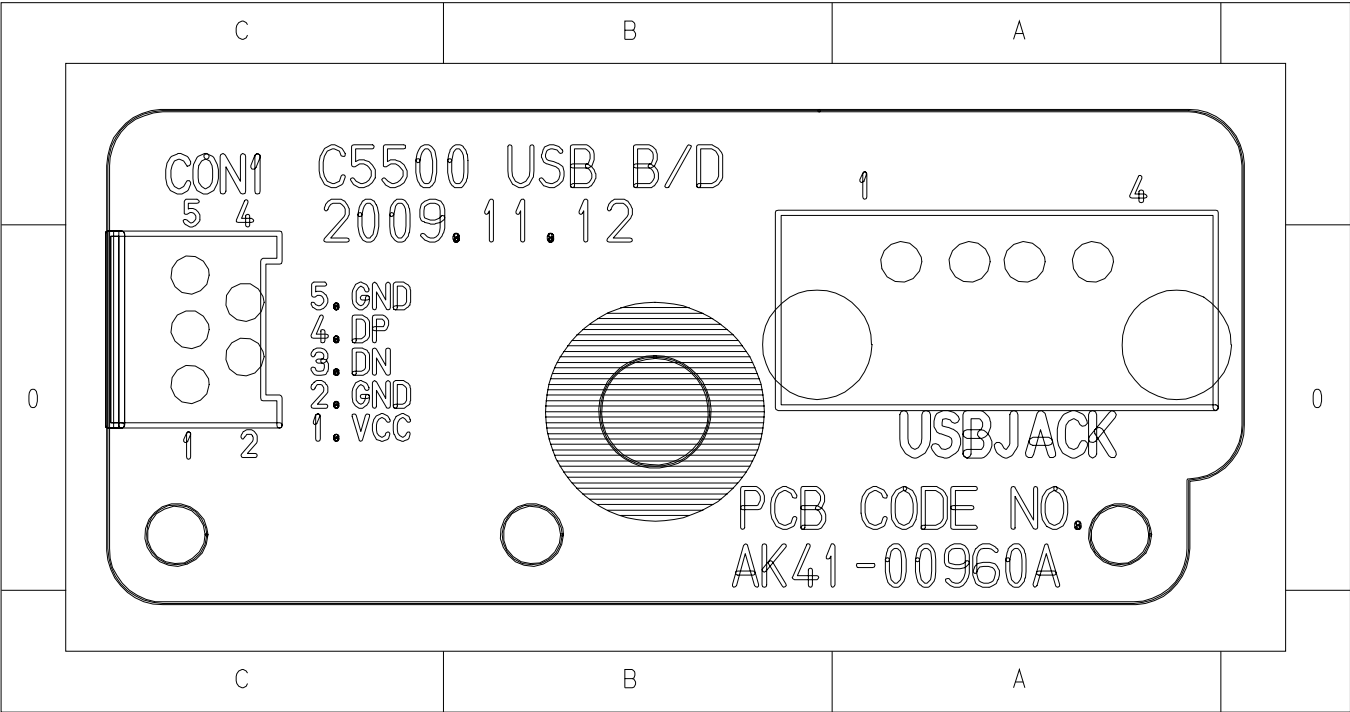
CONDUCTOR SIDE



6-6 USB PCB

COMPONENT SIDE

CONDUCTOR SIDE



M E M O

1. Precautions

1-1 Safety Precautions----- 1-2

1-2 Servicing Precautions ----- 1-4

1-3 ESD Precautions ----- 1-5

1-4 Handling the optical pick-up ----- 1-6

1-1 Safety Precautions

1) Before returning an instrument to the customer, always make a safety check of the entire instrument, including, but not limited to, the following items:

(1) Be sure that no built-in protective devices are defective or have been defeated during servicing.

(1) Protective shields are provided to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience.

(2) When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including, but not limited to, nonmetallic control knobs, insulating fish papers, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning.

(2) Be sure that there are no cabinet openings through which adults or children might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, excessively wide cabinet ventilation slots, and an improperly fitted and/or incorrectly secured cabinet back cover.

(3) Leakage Current Hot Check- With the instrument completely reassembled, plug the AC line cord directly into a 230V(220V ~ 240V) AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI) C101.1 Leakage Current for Appliances and Underwriters Laboratories (UL) 1270 (40.7). With the instrument's AC switch first in the ON position and then in the OFF position, measure from a known earth ground (metal water pipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle brackets, metal cabinets, screwheads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5mA. Reverse the instrument power cord plug in the outlet and repeat the test. See Fig. 1-1.

Any measurements not within the limits specified herein indicate a potential shock hazard that must be eliminated before returning the instrument to the customer.

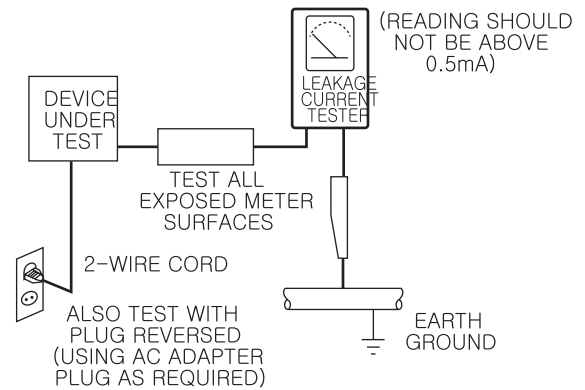


Fig. 1-1 AC Leakage Test

(4) Insulation Resistance Test Cold Check-(1) Unplug the power supply cord and connect a jumper wire between the two prongs of the plug. (2) Turn on the power switch of the instrument. (3) Measure the resistance with an ohmmeter between the jumpered AC plug and all exposed metallic cabinet parts on the instrument, such as screwheads, antenna, control shafts, handle brackets, etc. When an exposed metallic part has a return path to the chassis, the reading should be between 1 and 5.2 megohm. When there is no return path to the chassis, the reading must be infinite. If the reading is not within the limits specified, there is the possibility of a shock hazard, and the instrument must be repaired and rechecked before it is returned to the customer. See Fig. 1-2.

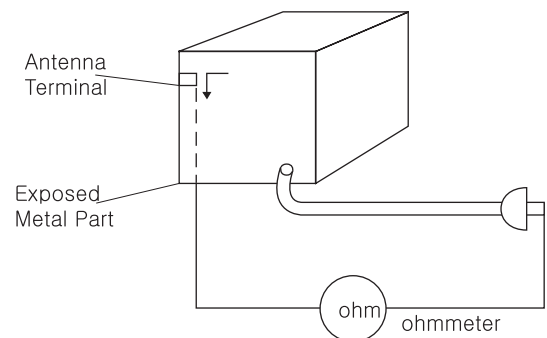




Fig. 1-2 Insulation Resistance Test

- 2) Read and comply with all caution and safety related notes on or inside the cabinet, or on the chassis.
- 3) Design Alteration Warning-Do not alter or add to the mechanical or electrical design of this instrument.
Design alterations and additions, including but not limited to, circuit modifications and the addition of items such as auxiliary audio output connections, might alter the safety characteristics of this instrument and create a hazard to the user. Any design alterations or additions will make you, the servicer, responsible for personal injury or property damage resulting therefrom.
- 4) Observe original lead dress. Take extra care to assure correct lead dress in the following areas:
(1) near sharp edges, (2) near thermally hot parts (be sure that leads and components do not touch thermally hot parts), (3) the AC supply, (4) high voltage, and (5) antenna wiring. Always inspect in all areas for pinched, out-of-place, or frayed wiring. Do not change spacing between a component and the printed-circuit board. Check the AC power cord for damage.
- 5) Components, parts, and/or wiring that appear to have overheated or that are otherwise damaged should be replaced with components, parts and/ or wiring that meet original specifications. Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.
- 6) Product Safety Notice-Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by shading, an () or a () on schematics and parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

1-2 Servicing Precautions

CAUTION : Before servicing units covered by this service manual and its supplements, read and follow the Safety Precautions section of this manual.

Note : If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions. Remember: Safety First.

1-2-1 General Servicing Precautions

- (1) a. Always unplug the instrument's AC powercord from the AC power source before (1) removing or reinstalling any component, circuit board, module or any other instrument assembly, (2) disconnecting any instrument electrical plug or other electrical connection, (3) connecting a test substitute in parallel with an electrolytic capacitor in the instrument.
- b. Do not damage any plug/socket B+ voltage interlocks with which instruments covered by this service manual might be equipped.
- c. Do not apply AC power to this instrument and or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
- d. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the test instrument positive lead. Always remove the test instrument ground lead last.

Note : Refer to the Safety Precautions section ground lead last.

- (2) The service precautions are indicated or printed on the cabinet, chassis or components. When servicing, follow the printed or indicated service precautions and service materials.
- (3) The components used in the unit have a specified flame resistance and dielectric strength. When replacing components, use components which have the same. Components identified by shading, in the circuit diagram are important for safety or for the characteristics of the unit. Always replace them with the exact replacement components.

- (4) An insulation tube or tape is sometimes used and some components are raised above the printed wiring board for safety. The internal wiring is sometimes clamped to prevent contact with heating components. Install such elements as they were.
- (5) After servicing, always check that the removed screws, components, and wiring have been installed correctly and that the portion around the serviced part has not been damaged and so on. Further, check the insulation between the blades of the attachment plug and accessible conductive parts.

1-2-2 Insulation Checking Procedure

Disconnect the attachment plug from the AC outlet and turn the power ON. Connect the insulation resistance meter (500V) to the blades of the attachment plug. The insulation resistance between each blade of the attachment plug and accessible conductive parts(see note) should be more than 1 Megohm.

Note : Accessible conductive parts include metal panels, input terminals, earphone jacks, etc.

1-3 ESD Precautions

Electrostatically Sensitive Devices (ESD)

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive Devices(ESD). Examples of typical ESD 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 static electricity.

- (1) Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, 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 ESD 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 ESD devices.
- (4) Use only an anti-static solder removal devices. Some solder removal devices not classified as “anti-static” can generate electrical charges sufficient to damage ESD devices.
- (5) Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESD devices.
- (6) Do not remove a replacement ESD device from its protective package until immediately before installing it. (Most replacement ESD devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive materials).
- (7) Immediately before removing the protective materials from the leads of a replacement ESD 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 body motions when handling unpackaged replacement ESD devices. (Otherwise harmless motions such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ESD device).

1-4 Handling the optical pick-up

The laser diode in the optical pick up may suffer electrostatic breakdown because of potential static electricity from clothing and your body.

The following method is recommended.

- (1) Place a conductive sheet on the work bench (The black sheet used for wrapping repair parts.)
 - (2) Place the set on the conductive sheet so that the chassis is grounded to the sheet.
 - (3) Place your hands on the conductive sheet (This gives them the same ground as the sheet.)
 - (4) Remove the optical pick up block
 - (5) Perform work on top of the conductive sheet. Be careful to let your clothes or any other static sources touch the unit.
- ★ Be sure to put on a wrist strap grounded to the sheet.
 - ★ Be sure to lay a conductive sheet, that is grounded to the table, made of copper.

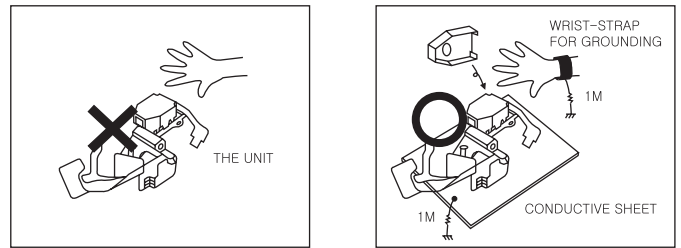


Fig.1-3

- (6) Short the short terminal on the PCB, which is inside the Pick-Up ASS'Y, before replacing the Pick-Up. (The short terminal is shorted when the Pick-Up Ass'y is being lifted or moved.)
- (7) After replacing the Pick-up, open the short terminal on the PCB.

MEMO

2. Product Specification

2-1 Product Specification----- 2-2

2-2 Chassis Product Specification ----- 2-8

2-3 Option Product Specification ----- 2-10

2-1 Product Specification

General	Weight	1.6 kg
	Dimensions	430 (W) X 207 (D) X 43 (H) mm
	Operating Temperature Range	+5°C to +35°C
	Operating Humidity Range	10 % to 75 %
Disc	BD	Reading Speed : 4.917m/sec
	DVD (Digital Versatile Disc)	Reading Speed : 3.49 ~ 4.06 m/sec.
		Approx. Play Time (Single Sided, Single Layer Disc) : 135 min.
	CD : 12 cm (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec.
		Maximum Play Time : 74 min.
	CD : 8 cm (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec.
		Maximum Play Time : 20 min.
Video Output	Composite Video	1 channel : 1.0 Vp-p (75 Ω load)
		Blu-ray/DVD Disc : 576i/480i
	Component Video	Y : 1.0 Vp-p (75 Ω load)
		Pr : 0.70 Vp-p (75 Ω load)
		Pb : 0.70 Vp-p (75 Ω load)
		Blu-ray Disc : 1080i, 720p, 576p/480p, 576i/480i
Video/Audio	HDMI	DVD : 576p/480p, 576i/480i
Audio Output	HDMI	1080p, 1080i, 720p, 576p/480p
		PCM multichannel audio, Bitstream audio
	2 Channel	L(1/L), R(2/R)
	Digital Audio Output	Optical
	*Frequency Response	48 kHz Sampling : 4 Hz to 22 kHz
		96 kHz Sampling : 4 Hz to 44 kHz
Audio Output	*S/N Ratio	110 dB
	*Dynamic Range	100 dB
	*Total Harmonic Distortion	0.003%

2-1-1 Player Features

- Supports a Variety of Disc Types
 - Blu-ray (BD-ROM, BD-RE, BD-R), DVD Video, DVD-RW/-R (V mode and finalized only) discs and Audio CD.
 - CD-RW/CD-R, DVD-RW/-R and USB storage device content such as MP3, JPEG and DivX files.
- HDMI (High Definition Multimedia Interface)

HDMI reduces picture noise by allowing a pure digital video/audio signal path from the player to your TV.

2-1-2 Blu-ray Disc Features

Blu-ray Discs can store 25 GB (single layer) or 50 GB (dual layer) on a single sided disc - about 5 to 10 times the capacity of a DVD. Blu-ray Discs also support the highest quality HD video available in the industry (up to 1920 x 1080 at 40 Mbit/sec) - Large capacity means no compromise on video quality. Furthermore, a Blu-ray Disc has the same familiar size and look as DVD.

* The following Blu-ray Disc features are disc dependant and will vary.

Appearance and navigation of features will also vary from disc to disc.

Not all discs will have the features described below.

- Video highlights

The BD-ROM format for movie distribution supports three highly advanced video codecs, including AVC, VC-1, and MPEG-2.

HD video resolutions are also available:

 - 1920 x 1080 HD
 - 1280 x 720 HD

- For High-Definition Playback

To view high-definition contents in BD discs, an HDTV (High Definition Television) is required. Some discs may require using the player's HDMI OUT to view high-Definition content. The ability to view high-Definition content on BD discs may be limited depending on the resolution of your TV.

- Graphic planes

Two individual, full HD resolution (1920x1080) video layers are available on top of the HD video layer.

One layer is assigned to video-related graphics (like subtitles), and the other layer is assigned to interactive elements, such as buttons or menus. Various wipes, fades and scroll effects may be available on both layers.



- Menu graphics

Support 256 full color resolution graphics and animation, thereby greatly surpassing the capabilities of DVD-Video. Unlike DVD, Menus can be accessed during video playback.
- Menu sounds

When you highlight or select a menu option on a Blu-ray disc, sounds can be heard such as button clicks or a voiceover explaining the highlighted menu choice.
- Multi-page/PopUp Menus

With DVD-Video, playback is interrupted each time a new menu screen is accessed. Due to Blu-ray Disc's ability to preload data from the disc without interrupting playback, a menu may consist of several pages. You can browse through the menu pages or select different menu paths, while the audio and video remain playing in the background.
- Interactivity

Certain Blu-ray Discs may contain Animated menus and Trivia games.
- User Browsable Slideshows

With Blu-ray Discs, you can browse through various still pictures while the audio remains playing.
- Subtitles

Product Specification








Depending on what is contained on the Blu-ray Disc, you may be able to select different font styles, sizes and colors for the subtitles. Subtitles may also be animated, scrolled or faded in and out.

- BD-LIVE

You can use a Blu-ray Disc supporting BD-LIVE through network connection to enjoy various contents provided by the disc manufacturer.

2-1-3 Disc Types and Contents that can be played

<Table 2-1>

Term	Logo	Definition
BD-ROM		This involves a function available on a BD-ROM.
BD-RE/-R		This involves a function available on a BD-RE/-R disc recorded in the BD-RE format.
DVD-VIDEO		This involves a function available on a DVD-VIDEO.
DVD-RW(V)	   	This involves a function available on recorded DVD+RW or DVD-RW(V)/DVD-R/+R discs that have been recorded and finalized.
DVD-R		
DVD+RW		
DVD+R		
Audio CD		This involves a function available on an audio CD-RW/-R (CD-DA format).
MP3 WMA	-	This involves a function available in a CD-RW/-R, DVD-RW/-R disc or a USB storage media containing MP3 or WMA contents.
JPEG	-	This involves a function available in a CD-RW/-R, DVD-RW/-R disc or a USB storage media containing JPEG contents.
DivX MKV MP4	-	This involves a function available in a CD-RW/-R, DVD-RW/-R disc or a USB storage media containing DivX contents.

[Note]

- The product may not play certain CD-RW/-R and DVD-R due to the disc type or recording conditions.
- If a DVD-RW/-R disc has not been recorded properly in DVD video format, it will not be playable.

2-1-4 Disc types that cannot be played

- Blu-ray Discs with a region code other than "Region A".
- DVD-VIDEO with a region number other than "1" or "ALL".
- HD DVD
- DVD-RAM
- DVD-RW(VR mode)
- 3.9 GB DVD-R Disc for Authoring.
- DVD-ROM/PD/MVDisc, etc
- Super Audio CD (except CD layer)
- CVD/CD-ROM/CDV/ CD-G/CD-I/LD (CD-Gs play audio only, not graphics.)

[Note]










- Some commercial discs and DVD discs purchased outside your region may not be playable with this product. You may receive one of the following error messages; either "This disc can not be played." or "Please check the regional code of the disc." will be displayed.
- Playback may not work for some types of discs, or when specific operations, such as angle change and aspect ratio adjustment, are being performed. Information about the discs is written in detail on the disc box. Please refer to this if necessary.
- Do not allow the disc to become dirty or scratched. Fingerprints, dirt, dust, scratches or deposits of cigarette smoke on the recording surface may make it impossible to use the disc for playback.
- Discs with PAL programs recorded on them cannot be played using this product.
- This product is compatible with the NTSC color system only.
- When a BD-J title is played, loading may take longer than a normal title, or some functions may perform slowly.
- This product may not respond to all operating commands because some Blu-ray, DVD and CD discs allow specific or limited operation and features during playback. Please note that this is not a defect in the product.
- Samsung cannot assure that this product will play every disc bearing the Blu-ray Disc, DVD or CD logo because disc formats evolve, and problems and errors may occur during the creation of Blu-ray Disc, DVD, CD software and/or the manufacture of discs. Please contact the SAMSUNG customer care center if you have questions or encounter difficulty in playing Blu-ray Disc, DVD, CD discs in this product. Also, refer to rest of this user manual for additional information on playback restrictions.

2-1-5 Region code

Both the product and the discs are coded by region. These regional codes must match in order to play the disc. If the codes do not match, the disc will not play.

The Region Number for this product is described on the rear panel of the product.

<Table 2-2>

Disc Type	Region Code	Area
Blu-ray		North America, Central America, South America, Korea, Japan, Taiwan, Hong Kong and South East Asia.
		Europe, Greenland, French territories, Middle East, Africa, Australia and New Zealand.
		India, China, Russia, Central and South Asia.
DVD-VIDEO		The U.S., U.S. territories and Canada
		Europe, Japan, the Middle East, Egypt, South Africa, Greenland
		Taiwan, Korea, the Philippines, Indonesia, Hong Kong
		Mexico, South America, Central America, Australia, New Zealand, Pacific Islands, Caribbean
		Russia, Eastern Europe, India, most of Africa, North Korea, Mongolia
		China

2-1-6 Blu-ray Disc Compatibility

Blu-ray Disc is a new and evolving format. Accordingly, disc compatibility issues are possible. Not all discs are compatible and not every disc will play back. For additional information, refer to the Compliance and Compatibility Notice section of this Manual. If you encounter compatibility problems, please contact the SAMSUNG customer care center. This Samsung Blu-ray disc player supports only the BDROM Profile 2 (a.k.a. BD-LIVE). If you want to play later version discs, you may need to update player's firmware. Please refer to <http://www.samsung.com> or contact SAMSUNG customer care center at 1-800 SAMSUNG.

2-1-7 Disc Types

- BD-ROM
 - This Blu-ray disc can only be played back. This product can play back pre-recorded commercial BD-ROM discs.
- BD-RE/-R
 - This Blu-ray disc can be recorded and played back.
This product can play back a BD-RE/-R disc recorded by other compatible Blu-ray disc recorders.
- DVD-VIDEO
 - This product can play back pre-recorded commercial DVD discs (DVD-VIDEO discs) with movies.
 - When switching from the first layer to the second layer of a dual-layered DVD-VIDEO disc, there may be momentary distortion in the image and sound. This is not a malfunction of the product.
- DVD-RW
 - This product can play back a DVD-RW disc recorded and finalized with a DVD video recorder. Ability to play back may depend on recording conditions.
- DVD-R
 - This product can play back a DVD-R disc recorded and finalized with a DVD Video recorder.
Ability to play back may depend on recording conditions.
- DVD+RW
 - This product can play back a DVD+RW disc recorded with a DVD Video recorder. Ability to play back may depend on recording conditions.
- DVD+R
 - This product can play back a DVD+R disc recorded and finalized with a DVD Video recorder.
Ability to play back may depend on recording conditions.
- Audio CD (CD-DA)
 - This product can play back CD-DA format audio CD-RW/-R discs.
 - The product may not be able to play some CD-RW/-R discs due to the condition of the recording.
- CD-RW/-R
 - Use a 700MB(80 minutes) CD-RW/-R disc. If possible, do not use a 800MB(90 minutes) or above disc, as the disc may not play back.
 - If the CD-RW/-R disc was not recorded as a closed session, you may experience delays when playing back the beginning of the disc or all recorded files may not play.
 - Some CD-RW/-R discs may not be playable with this product, depending on the device which was used to burn them. For contents recorded on CD-RW/-R media from CDs for your personal use, playability may vary depending on contents and discs.

2-1-8 Supported File Formats

BRCM Video File Support

<Table 2-3>

File Extension	Container	Video Codec	Audio Codec	Resolution
*.avi	AVI	Divx 3.11/4.x/5.1/6.0	MP3	1920x1080
		XviD	AC3	1920x1080
		MP4v3	DTS	1920x1080
		H.264 BP/MP/HP	WMA	1920x1080
*.mkv	MKV	VC-1 AP(wmv1)	PCM	1920x1080
		DivX 5.1/6.0	MP3	1920x1080
		XviD	AC3	1920x1080
		H.264 BP/MP/HP	DTS	1920x1080
*.wmv	WMV	VC-1 AP	WMA	1920x1080
		VC-1 SM		1920x1080
*.mp4	MP4	MP4 (mp4v)	AAC	1920x1080
		H.264 BP/MP/HP		1920x1080
*.mpg, *.mpeg	PS	MPEG1	MP1, 2	1920x1080
		MPEG2	AC3	1920x1080
		H.264 BP/MP/HP	DTS	1920x1080

BRCM Music File Support

<Table 2-4>

File Extension	Container	Audio Codec	Support Range
*.mp3	MP3	MP3	-
*.wma	WMA	WMA	Compliant with WMA version 10 * Sampling rates (in kHz) – 8, 11, 16, 22, 32, 44.1, 48 * Bit rates – All bitrates in the range 5kbps to 384kbps



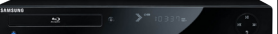
AVCHD (Advanced Video Codec High Definition)




- This product can playback AVCHD format discs. These discs are normally recorded and used in camcorders.
- The AVCHD format is a high definition digital video camera format.
- The MPEG-4 AVC/H.264 format is capable of compressing images at higher efficiency than that of the conventional image compressing format.
- Some AVCHD discs use the “x.v.Color” format. This product can playback AVCHD discs using “x.v.Color” format.
- “x.v.Color” is a trademark of Sony Corporation.
- “AVCHD” and the AVCHD logo are trademarks of Matsushita Electronic Industrial Co., Ltd. and Sony Corporation.

[Note]

- Some AVCHD format discs may not play, depending on the recording condition. AVCHD format discs need to be finalized.
- “x.v.Color” offers a wider color range than normal DVD camcorder discs.
- Some DivX, MKV and MP4 format discs may not play, depending on the video resolution and frame rate condition.



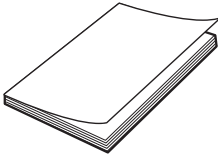
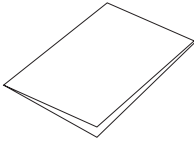
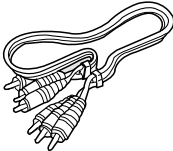
2-2 Chassis Product Specification

General	Features	BD-C5300	BD-P1600	BD-P1500
Chassis				
Input / Output	CVBS Output	1	1	1
	S-Video Output	-	-	1
	YPbPr Output	1	1	1
	HDMI	0	0	0
	Digital Audio Output(Optical/Coaxial)	O/X	O/X	O/X
	Analog Audio Output(2ch/7.1ch)	2ch	2ch	2ch
	HDMI CEC	0	0	0
Audio/Video Decoder	Video Decoder(Maker : DAC)	BCM7630	BCM7601	BCM7440
	Video DAC	10bit	10bit	10bit
	Audio DAC	24bit 192kHz	24bit 192kHz	24bit 192kHz
Loader	BD-ROM	0	0	0
	BD-RE / BD-R	0	0	0
	DVD-RAM	X	X	X
	DVD-RW	0	0	0
	DVD-ROM	0	0	0
	DVD-R	0	0	0
	DVD+R	0	X	X
	DVD+RW	0	X	X
	CD-ROM	0	0	0
	CD-R	0	0	0
	CD-RW	0	0	0
A/V Playable Media	BD-ROM	0	0	0
	BD-RE / BD-R	0	0	0
	DVD-Video	0	0	0
	DVD-Audio	X	X	X
	DVD-VR	X	X	X
	Not finalized DVD-V Mode	X	X	X
	VCD 1.1/2.0	X	X	X
	SVCD/CVD	X	X	X
	CD-DA	0	0	0
	DTS CD	0	0	0
	HDCD	X	X	X
	SACD	X	X	X
	SACD CD Layer	0	0	0
	Picture CD	0	0	0
	mp3	0	0	X
	JPEG	0	0	X
	DivX	0	X	X
	MKV	0	X	X

General	Features	BD-C5300	BD-P1600	BD-P1500
Chassis				
Miscellaneous	Front Display	VFD	VFD	VFD
	Screen capture	X	X	X
	Closed Caption pass through from disc	O	O	O
	Main Menu (including Setup Menu)	O	O	O

O = Supported
X = Not Supported

2-3 Option Product Specification

Description Fig	Description	Parts No	Remark
	Remote Control	AK59-00104R	Model Standard of BD-C5300/XEF
	Batteries for Remote Control (AAA Size)	AC43-12002H	Model Standard of BD-C5300/XEF S.N.A
	User Manual	AK68-01941Q	Model Standard of BD-C5300/XEF
	Quick Guide	AK68-01855A	Model Standard of BD-C5300/XEF S.N.A
	Audio/Video cable	AC39-00073A	Model Standard of BD-C5300/XEF

MEMO

7. Schematic Diagrams

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Note

- For schematic Diagram
- Resistors are in ohms, 1/8W unless otherwise noted.


Special note :

Most semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "electrostatically sensitive (ES) devices" section of this service manual.

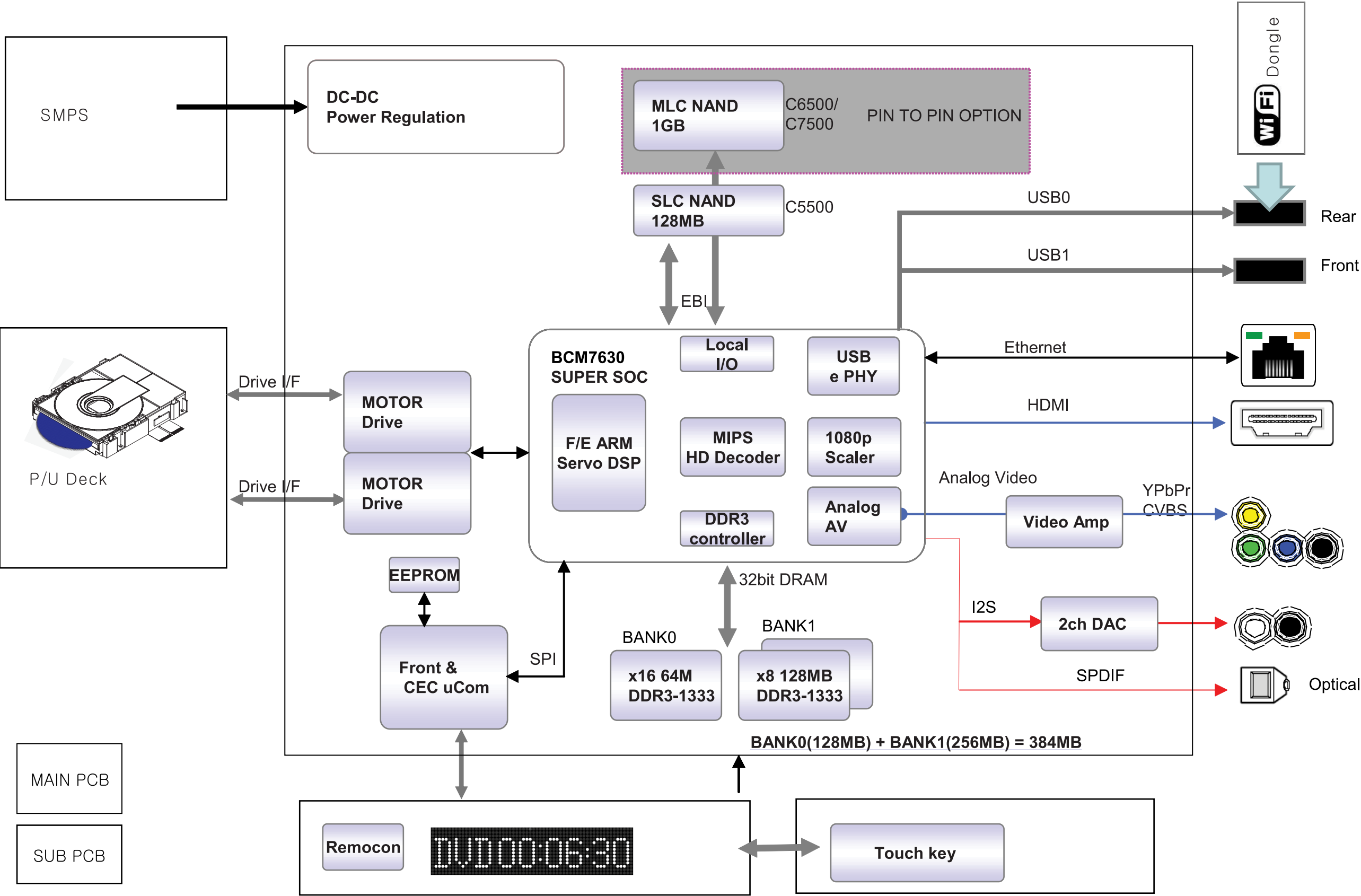
Note :

Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list (may be slightly different or amended since this drawing was prepared).

Important safety notices :

Components identified with the mark  have the special characteristics for safety. When replacing any of these components. Use only the same type.

7-1 All Block Diagram



7-2 Power

7-2-1 About S.M.P.S (Ringing Choke Converter Method)

Terms

- 1) 1st : Common power input to 1st winding.
- 2) 2nd : Circuit followings output winding of transformer.
- 3) f (Frequency) : Switching frequency (T : Switching cycle)
- 4) Duty : $(T_{on}/T) \times 100$

7-2-2 Circuit description [FLY-Back RCC(Ringing Choke Converter)] Control

(a) AC Power Rectification/Smoothing Terminal

- 1) BD01 ~ 04 : Convert AC power to DC(Wave rectification).
- 2) C1S05B : Smooth the voltage converted to DC.
- 3) L1S01, C1S03, C1S04 : Noise removal at power input/output.
- 4) R1S02 : Rush current limit resistance at the moment of power cord insertion.
Without P1S02, the bridge diode might be damaged as the rush current increases.

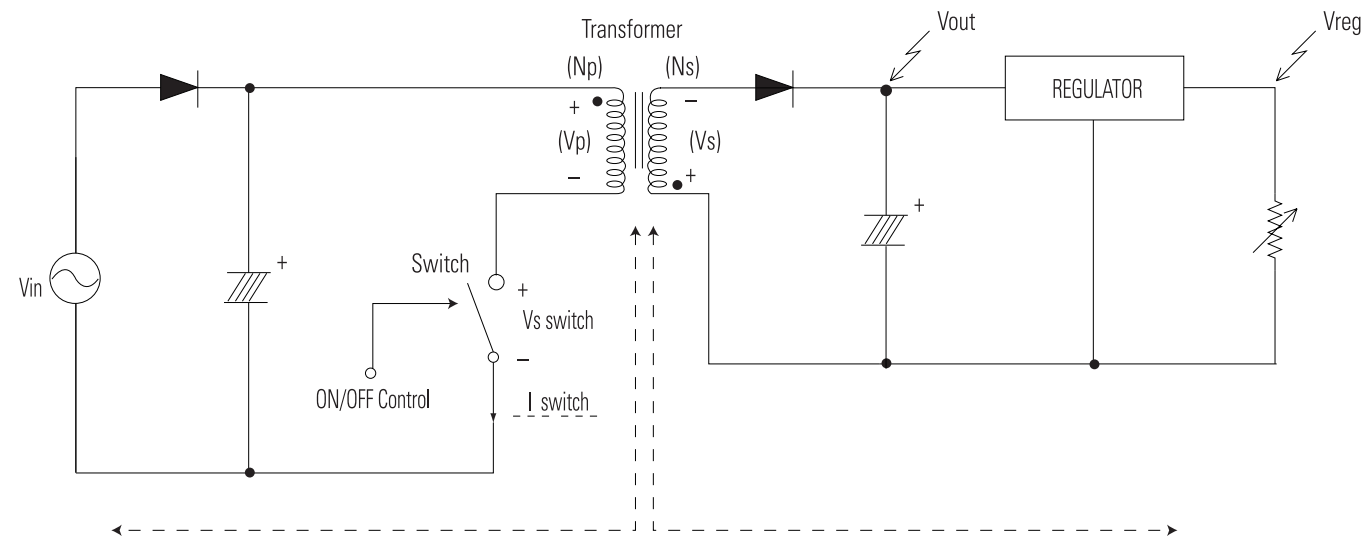
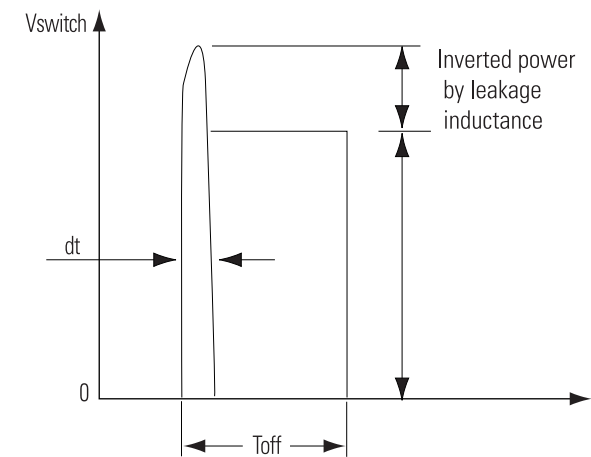


Fig. 7-1

(b) SNUBBER Circuit : D1S10, C1S10, R1S10



- 1) Prevent residual high voltage at the terminals of switch during switch off/Suppress noise.
High inverted power occurs at switch off, because of the 1st winding of transformer : $(V = -L1 \times di/dt)$. L1 : Leakage Induction
A very high residual voltage exist on both terminals of IC1 because dt is a very short.
- 2) SNUBBER circuit protects IC1 from damage through leakage voltage suppression by RC, (Charges the leakage voltage to DIS10 and CIS10 and discharges to R1S10).

Fig. 7-2

(c) IC1S01 Vcc circuit

- 1) ICIS01, RIS05, RIS07, RIS08 : ICIS01 driving resistance (ICIS01 works through driving resistance at power cord in)
- 2) ICIS01 Vcc : RIS05, RIS07, RIS08
 - ❶ Use the output of transformer as Vcc, because the current starts to flow into transformer while ICIS01 is active
 - ❷ Rectify to DIS07 and smooth to CIS09.
 - ❸ Use the output of transformer as ICIS01 Vcc : The loads are different before and after ICIS01 driving. (Vcc of ICIS01 decreases below OFF voltage, using only the resistance dut to lode increase after ICIS01 driving.)

(d) Feedback Control Circuit

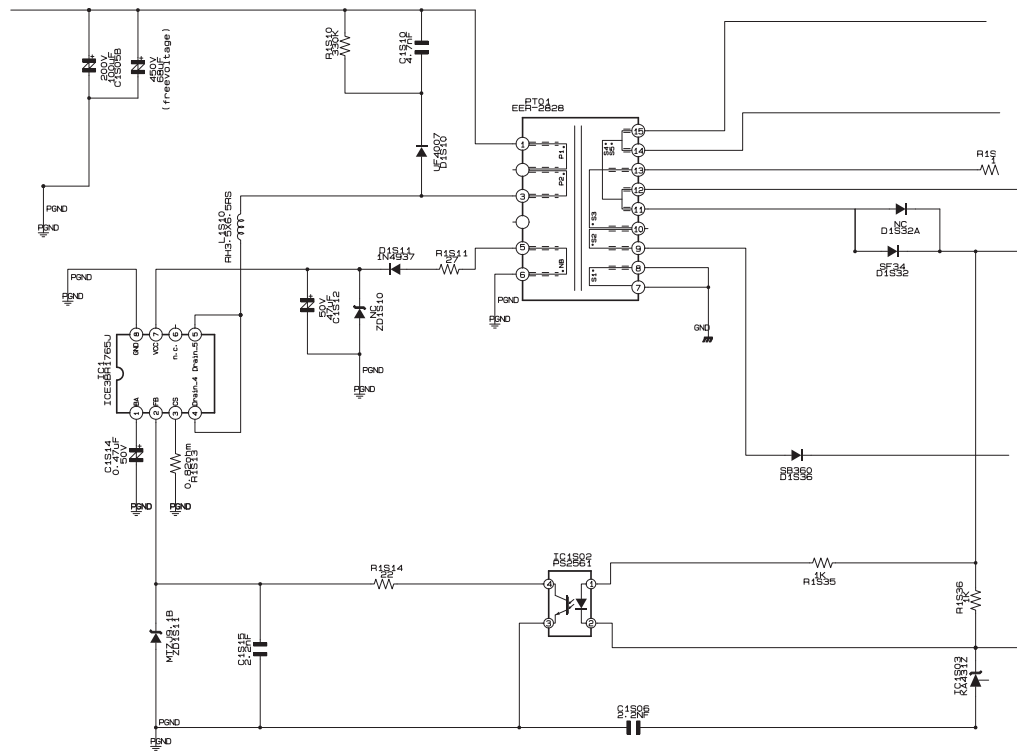


Fig. 7-3

- 1) F/B Terminal of IC1 determines output duty cycle.
- 2) C-E (Collector-Emitter) of and F/B potential of PQIZ1 are same.

7-2-3 Internal Block Diagram (Internal Block Diagram of S.M.P.S Circuit)

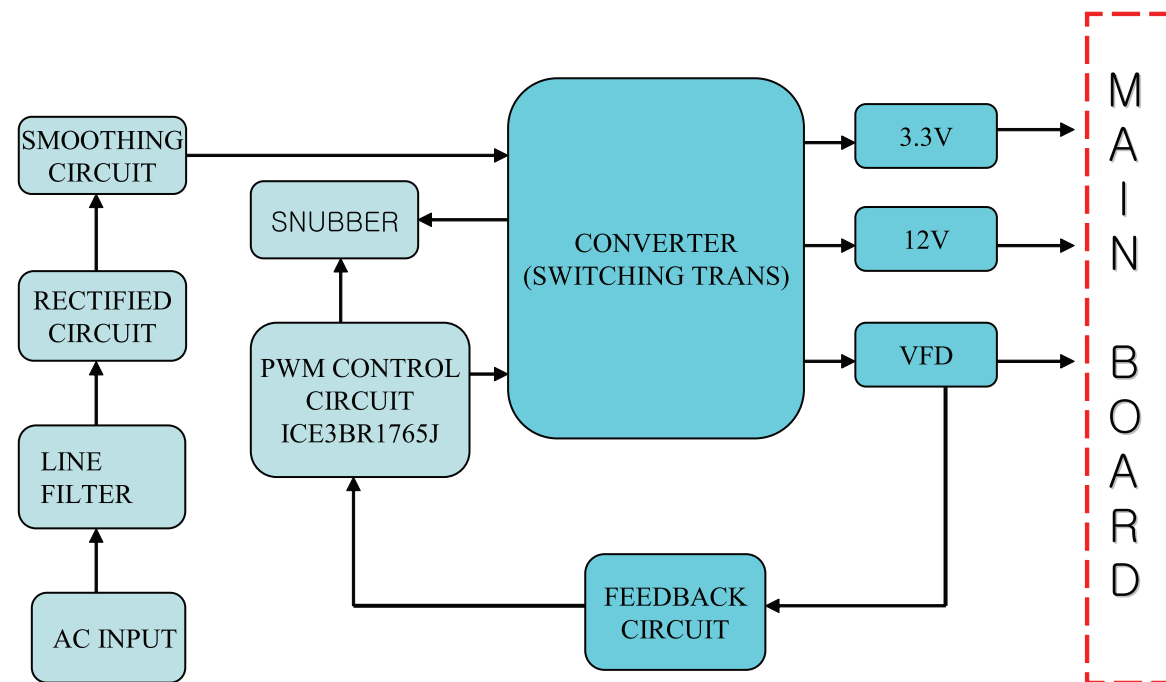
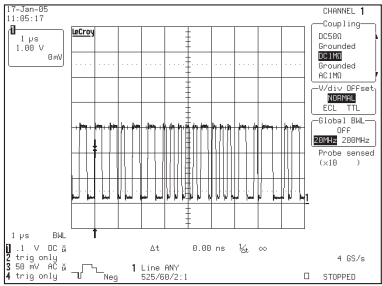


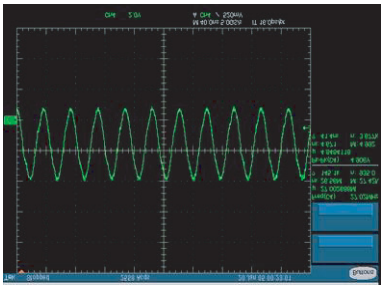
Fig. 7-4



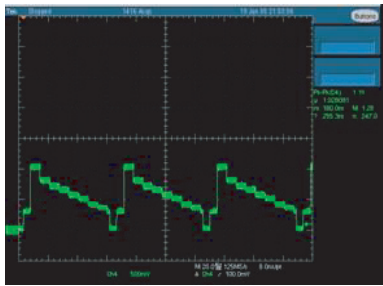




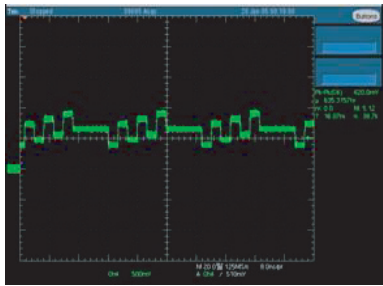
① DIGITAL AUDIO DATA
R1



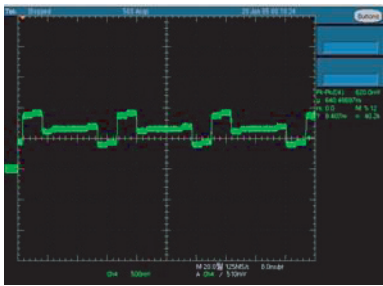
② ANALOG AUDIO DATA
IC3



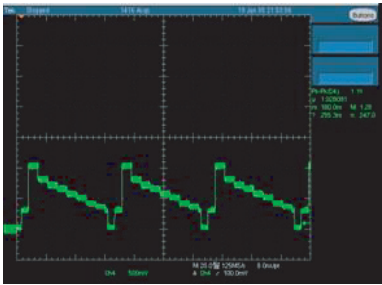
③ Y(Color-bar)
CN3 - R44



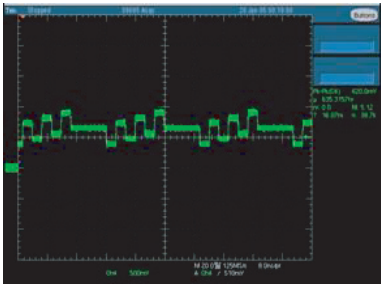
④ Pb(Color-bar)
CN3 - R45



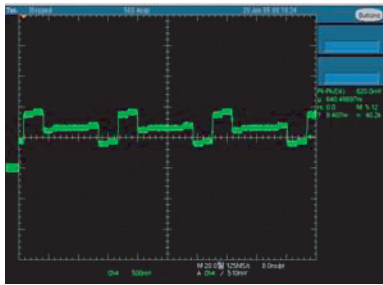
⑤ Pr(Color-bar)
CN3 - R46



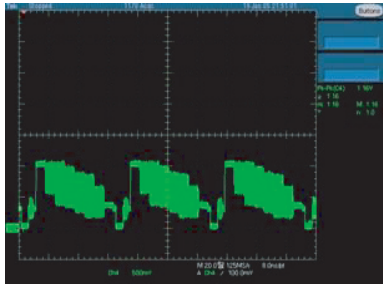
⑥ Y(Color-bar)
IC4 - C30



⑦ Pb(Color-bar)
IC4 - C31



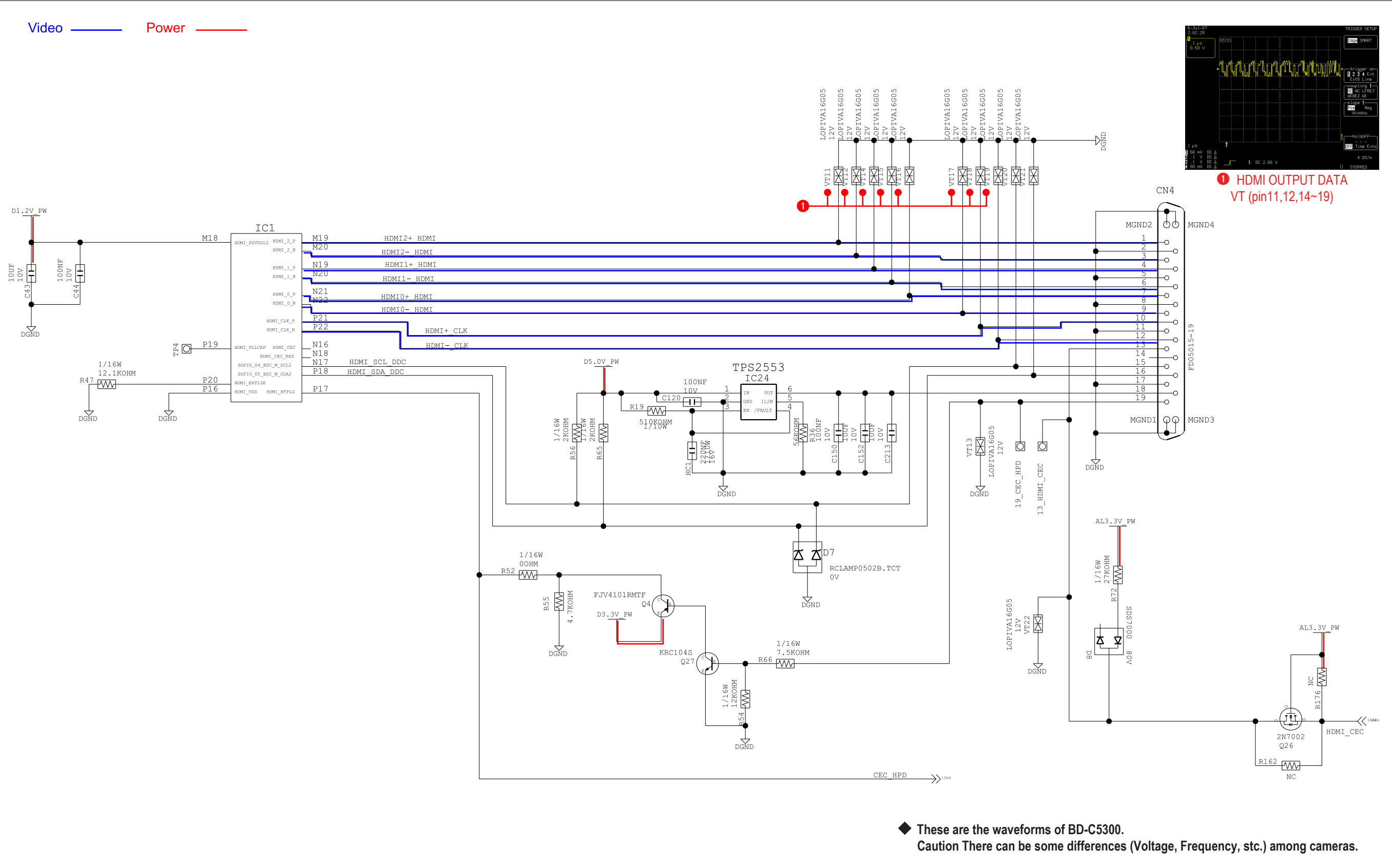
⑧ Pr(Color-bar)
IC4 - C32



⑨ CVBS(Color-bar)
Pin (R43, C25)

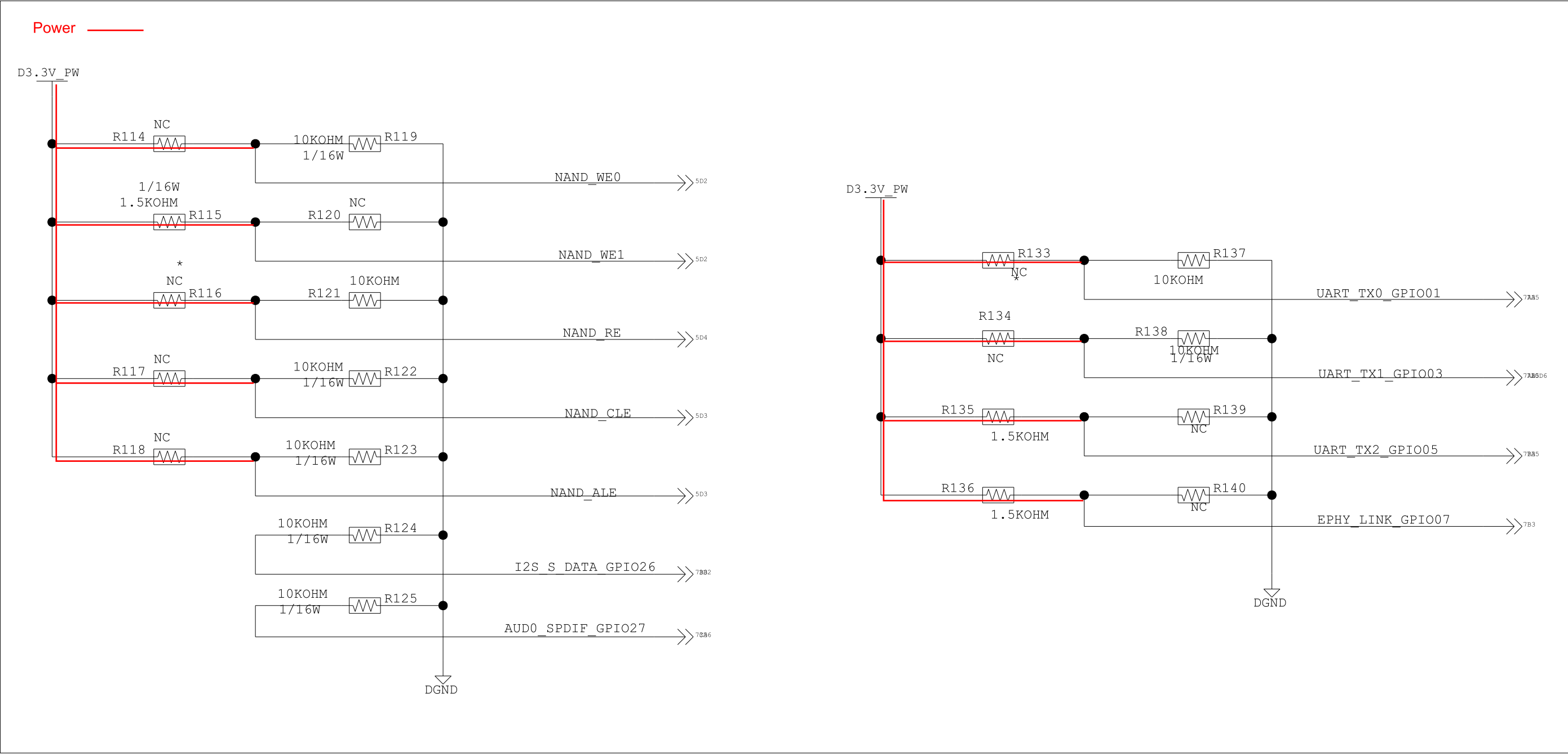
Fig. 7-5

7-5 HDMI (Main PCB)

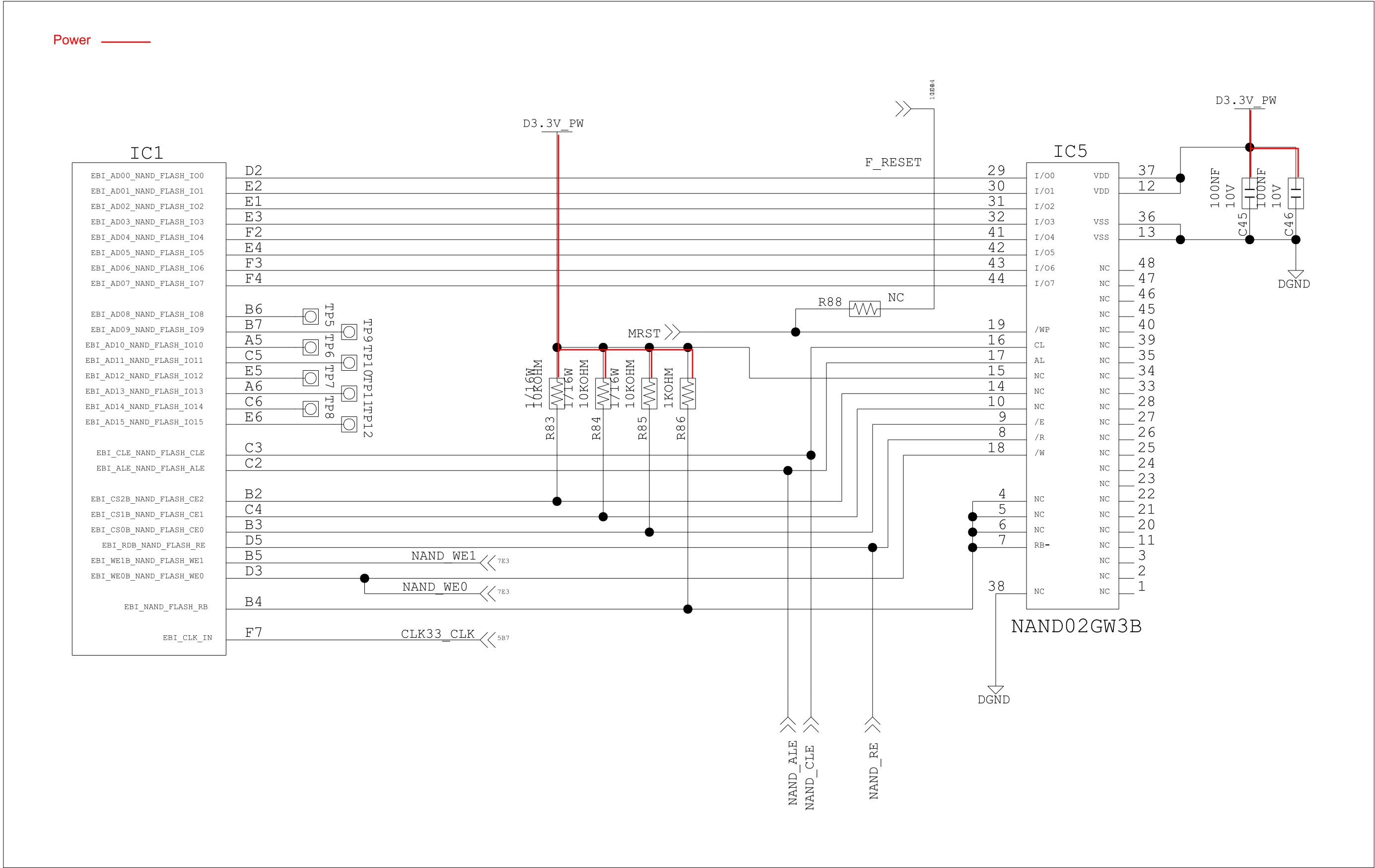




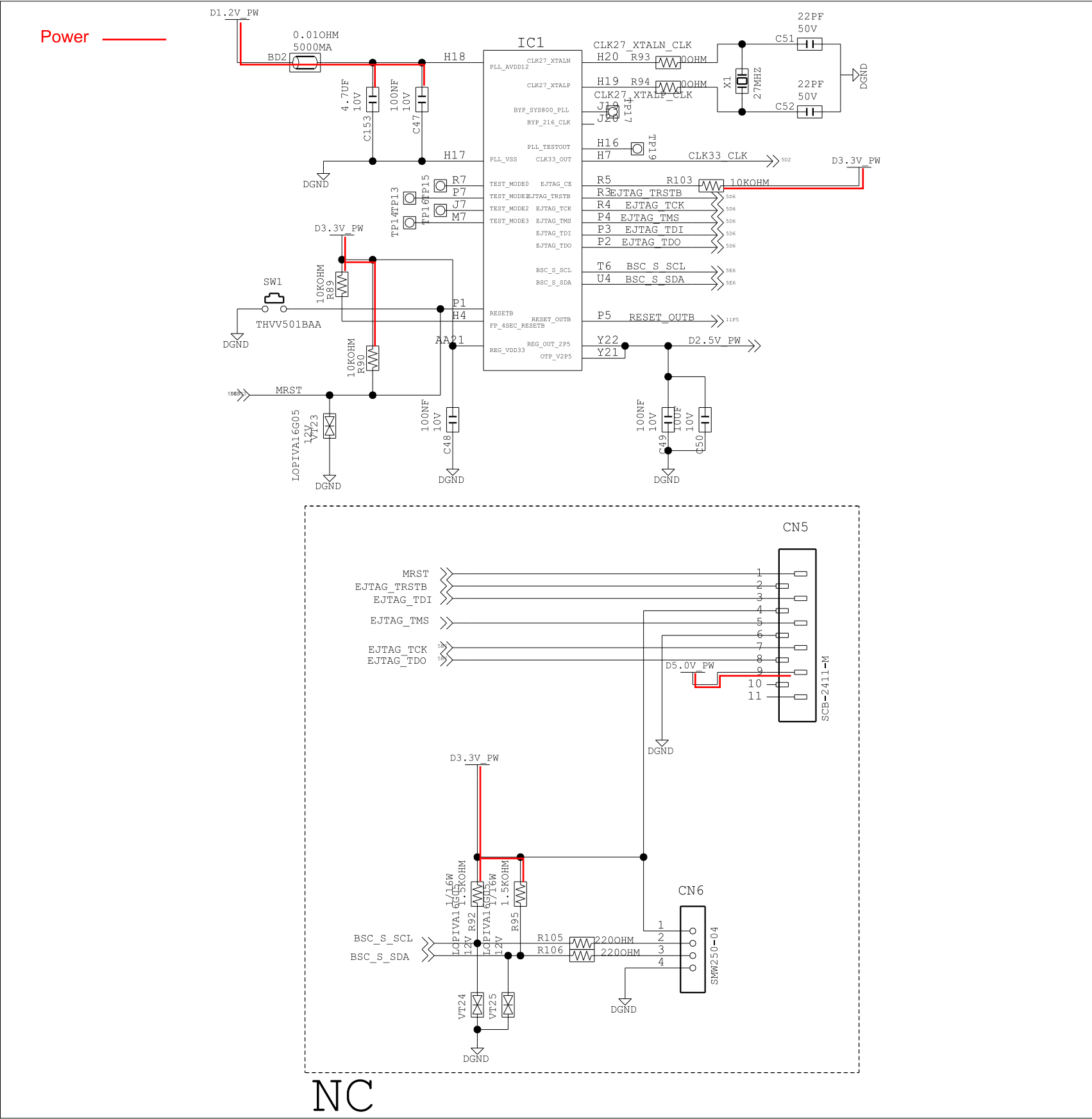
7-7 7630 Boot Strap Option (Main PCB)



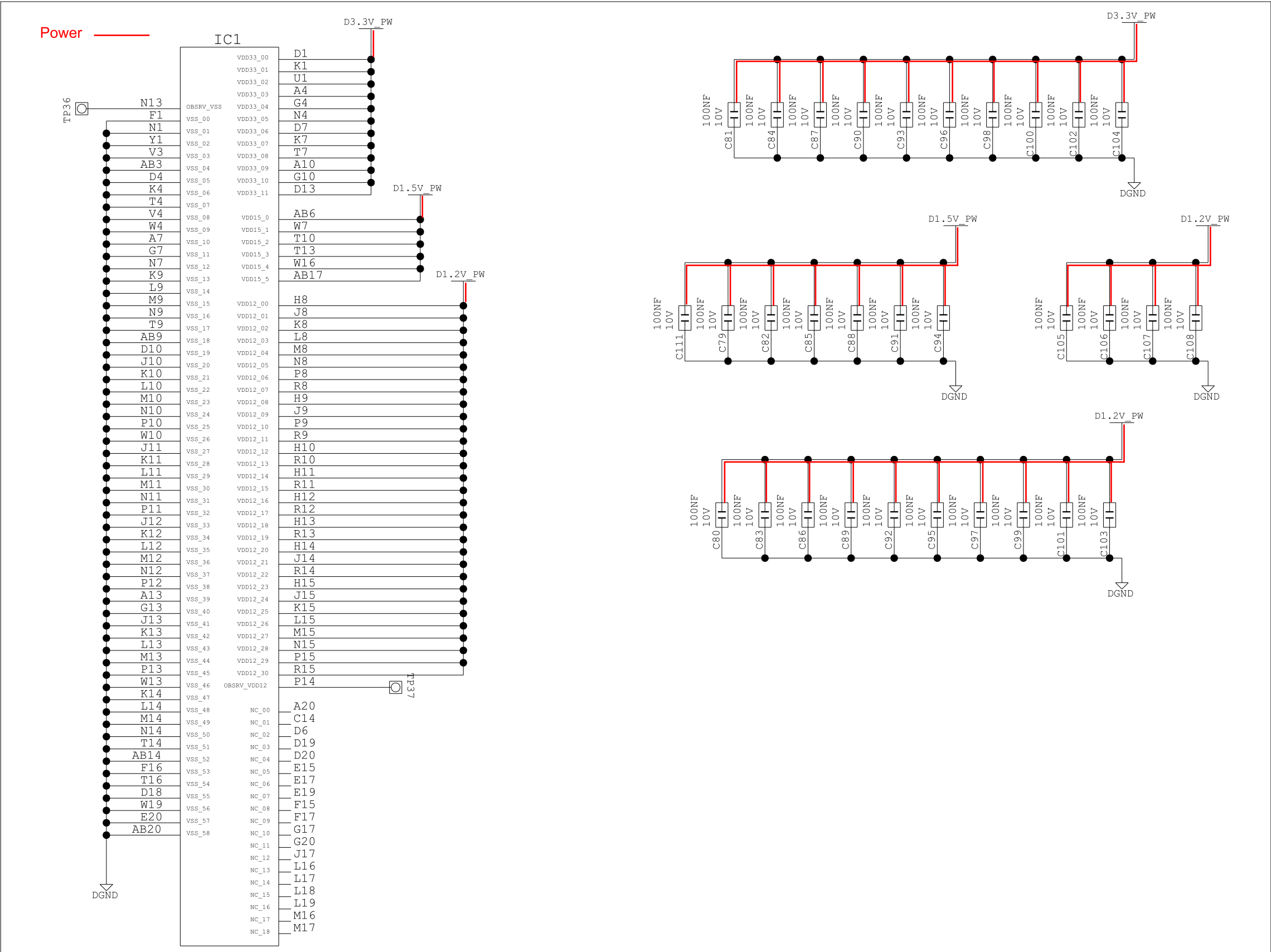
7-8 7630 EBI_ADDR, EBI_DATA (Main PCB)



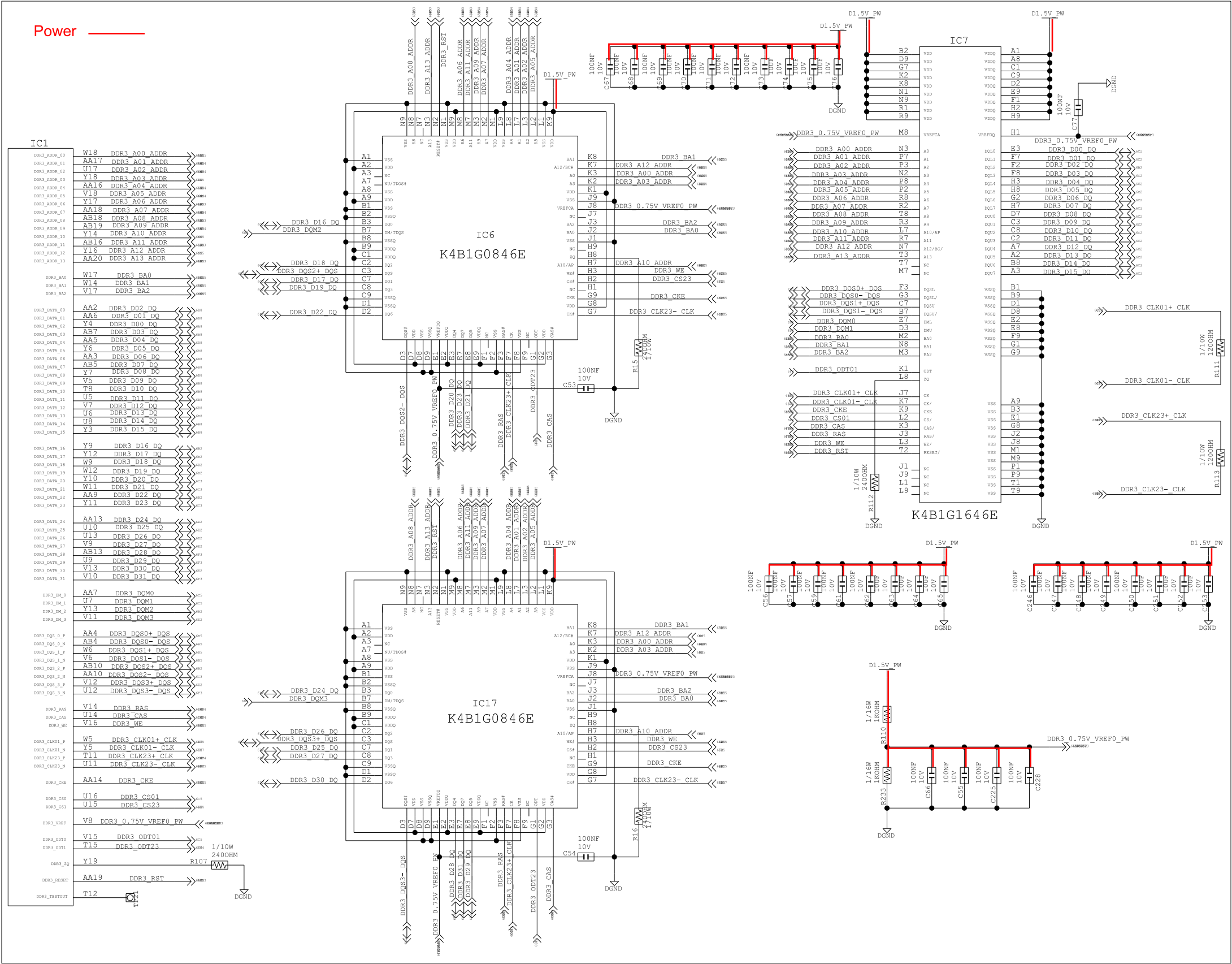
7-9 7630 Clocks, BBS (Main PCB)

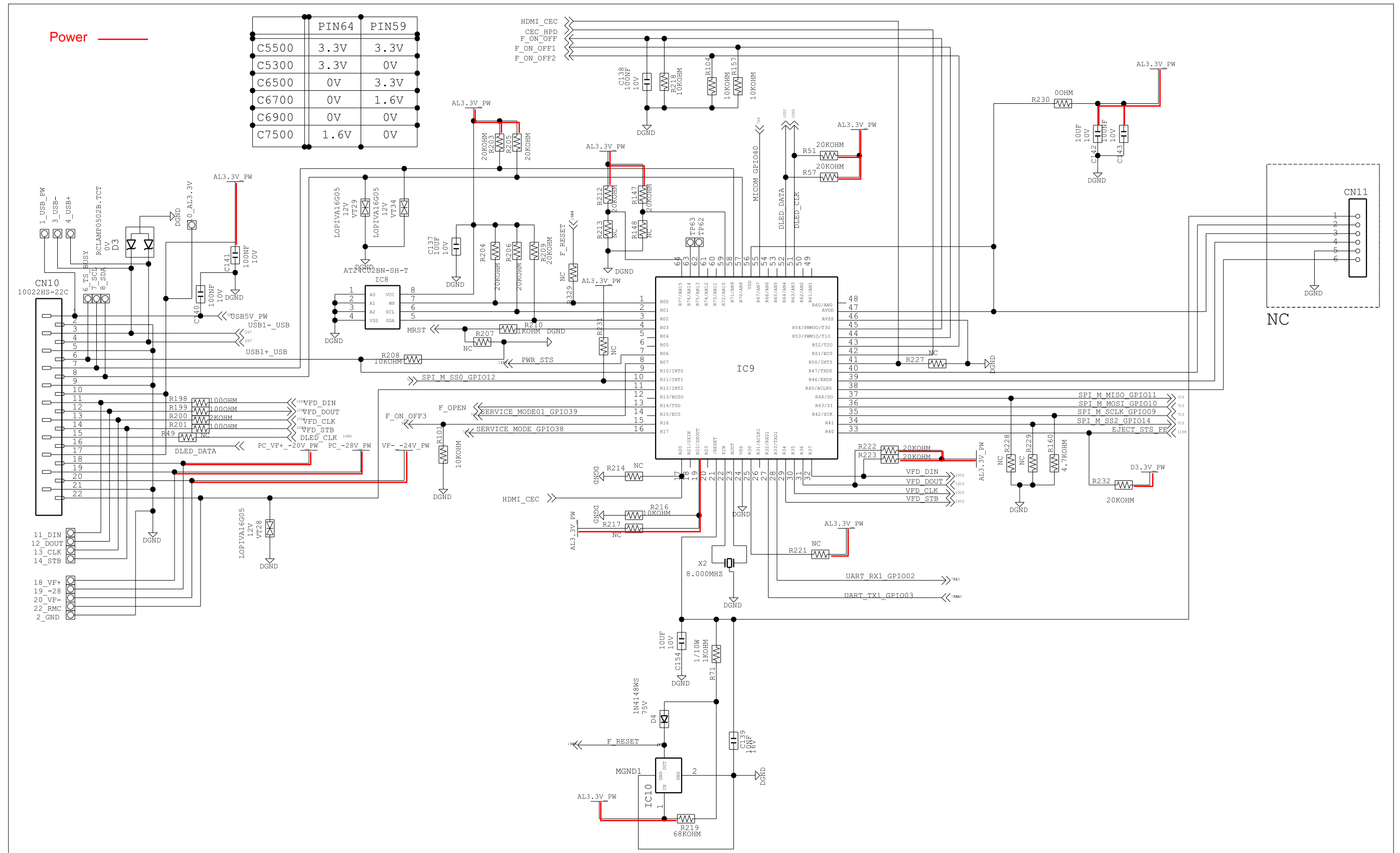


7-10 7630 Power, Decoupling (Main PCB)



7-11 DDR3 (Main PCB)

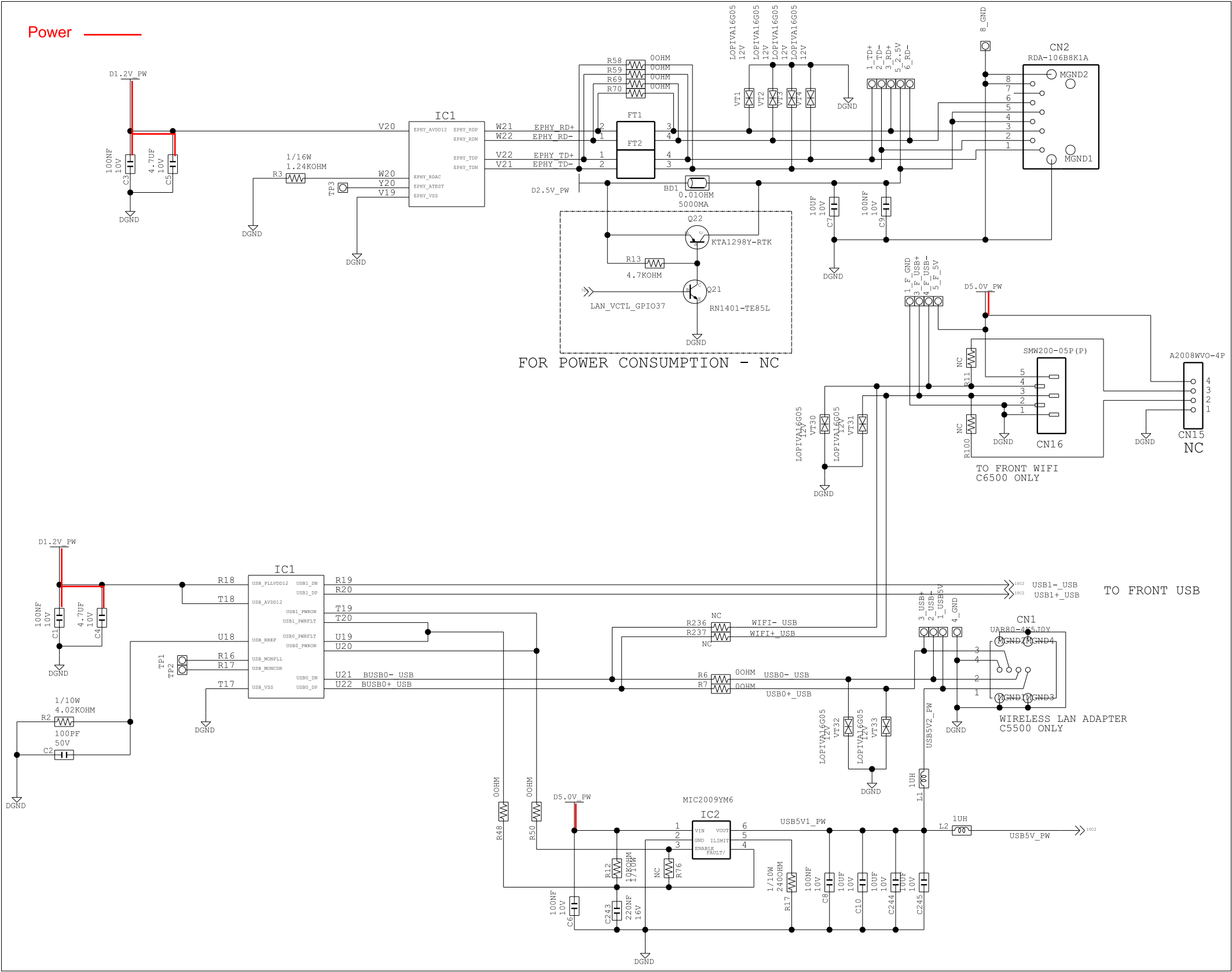






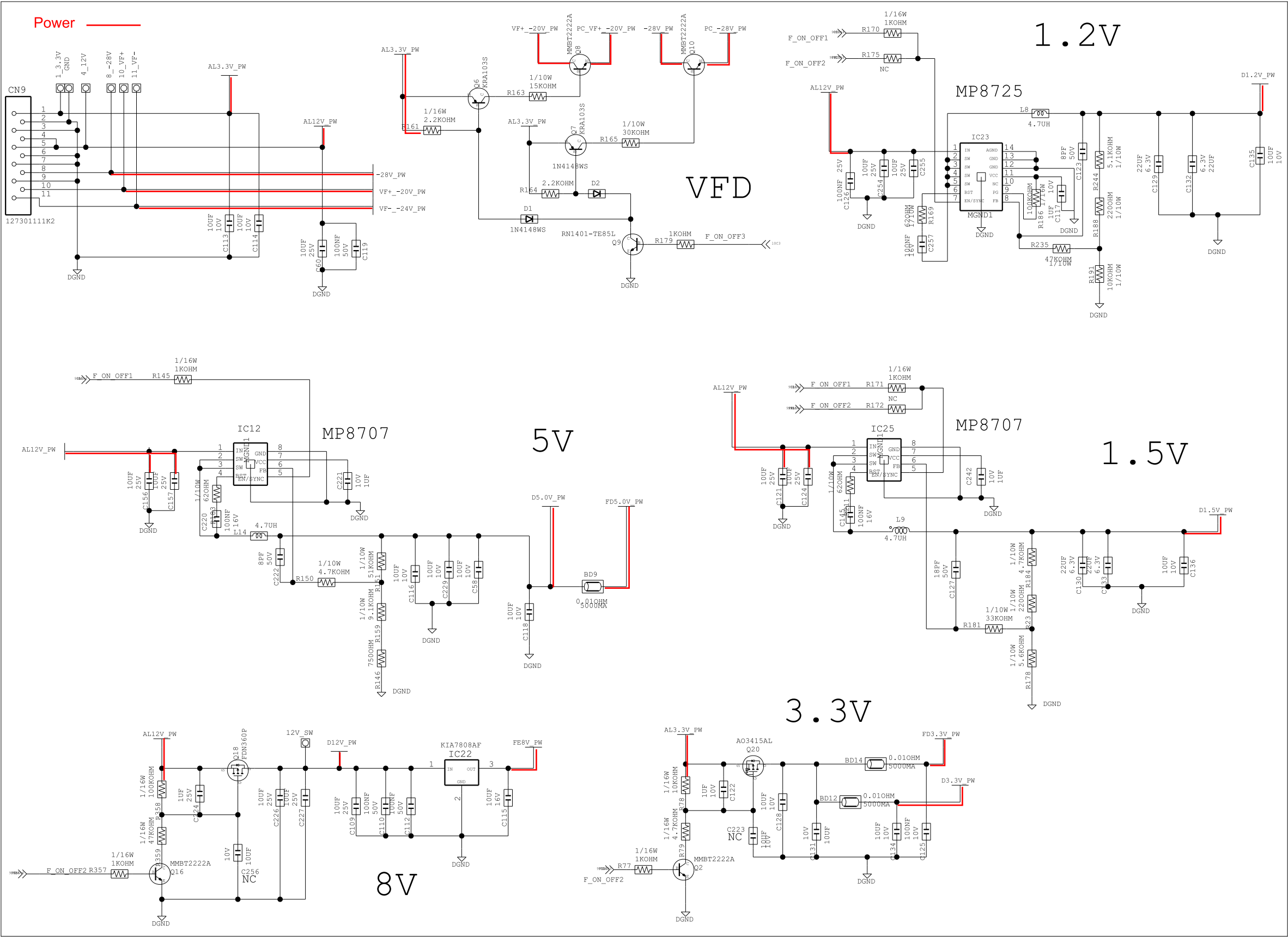


7-15 Ethernet, USB (Main PCB)

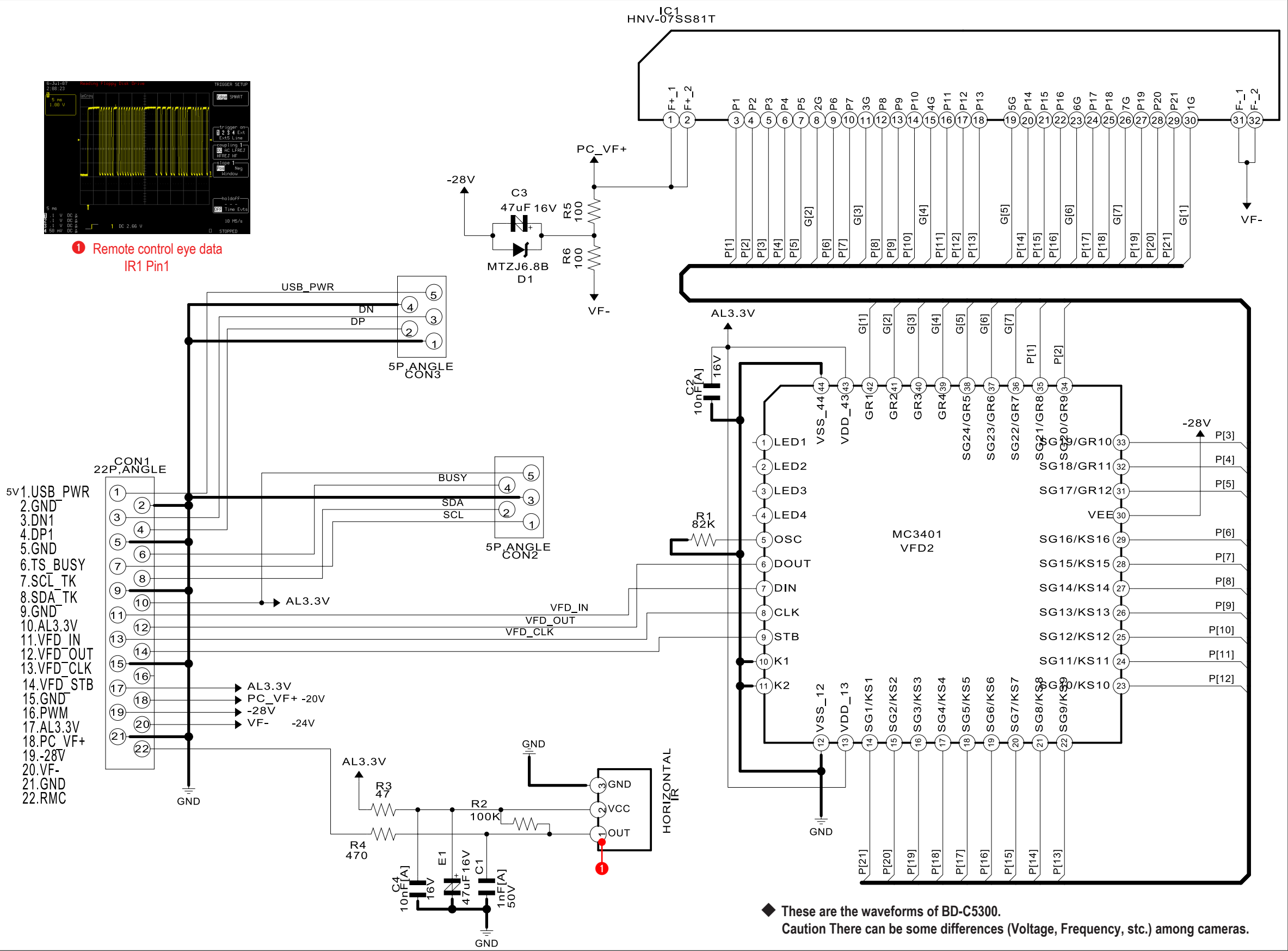




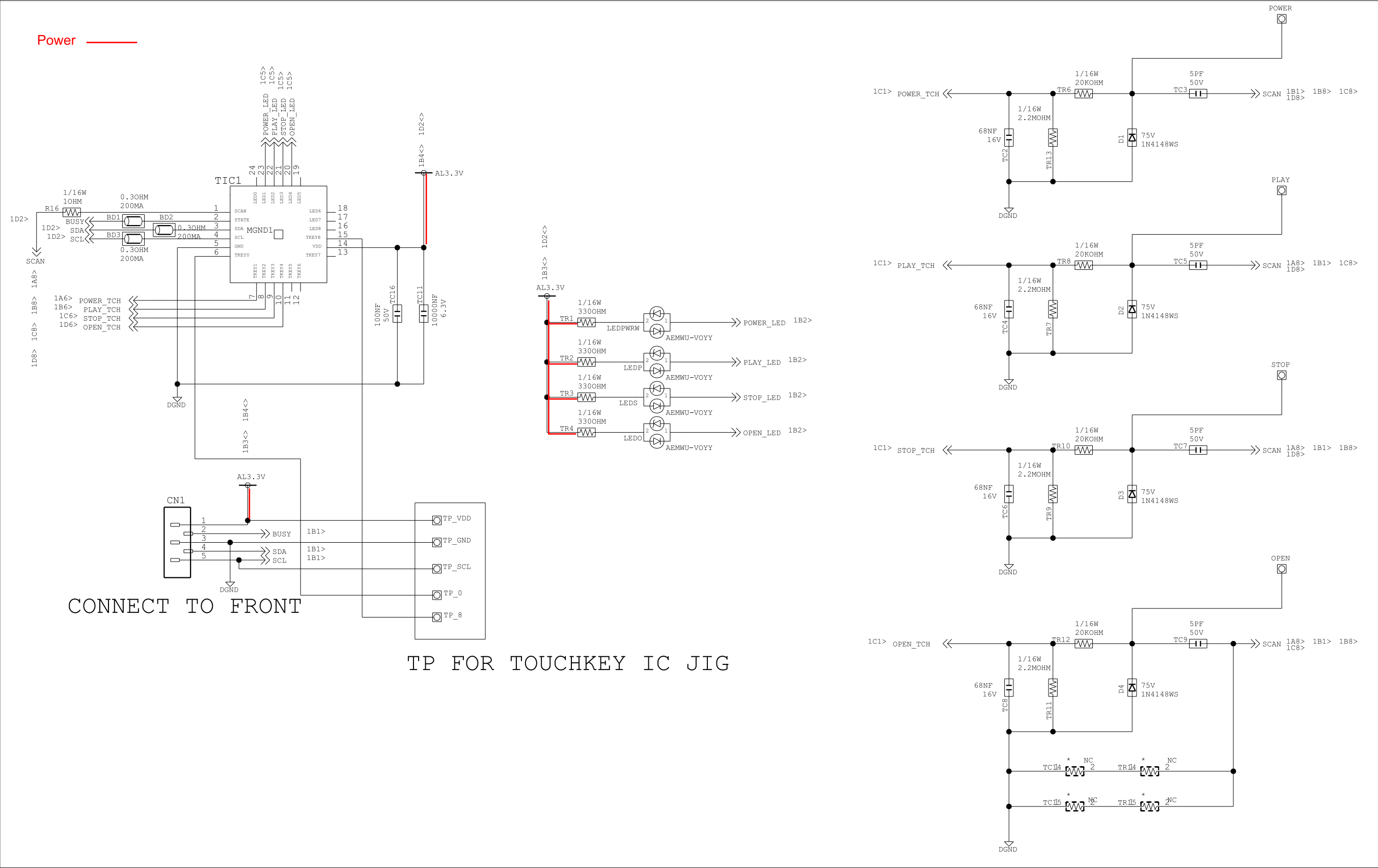
7-17 Main Power (Main PCB)



7-18 VFD (VFD PCB)



7-19 Touch Key (Touch PCB)



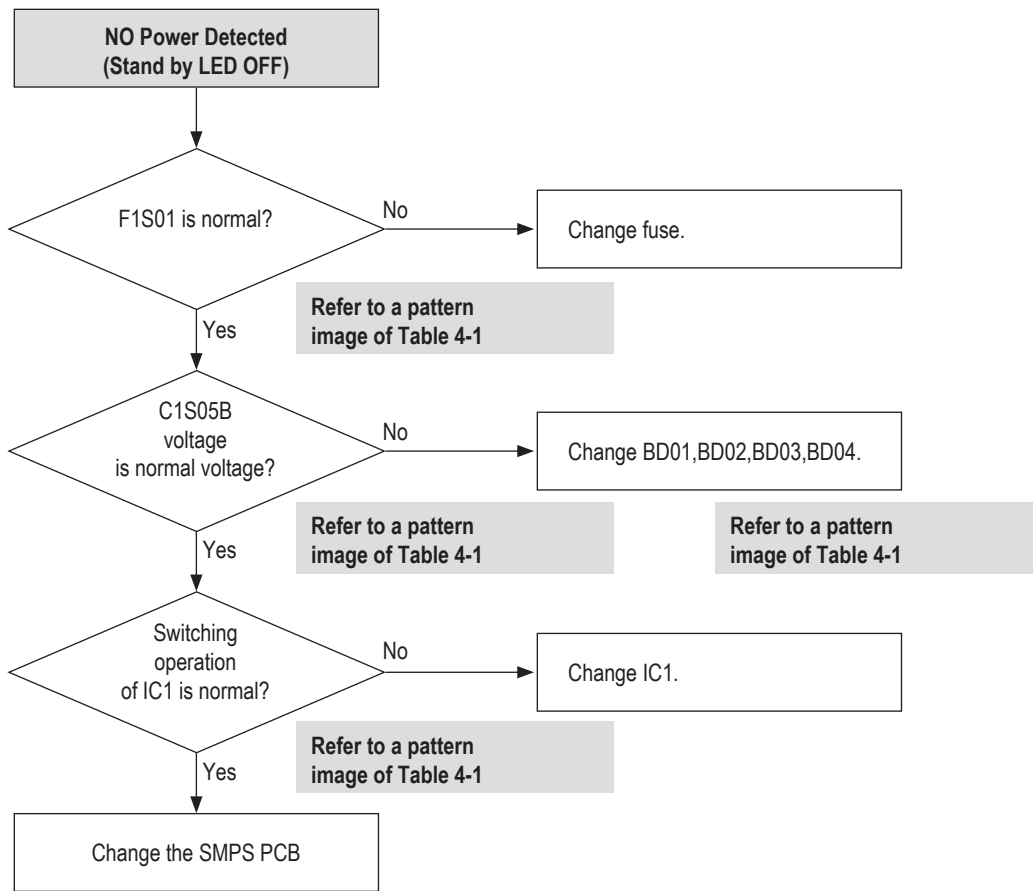
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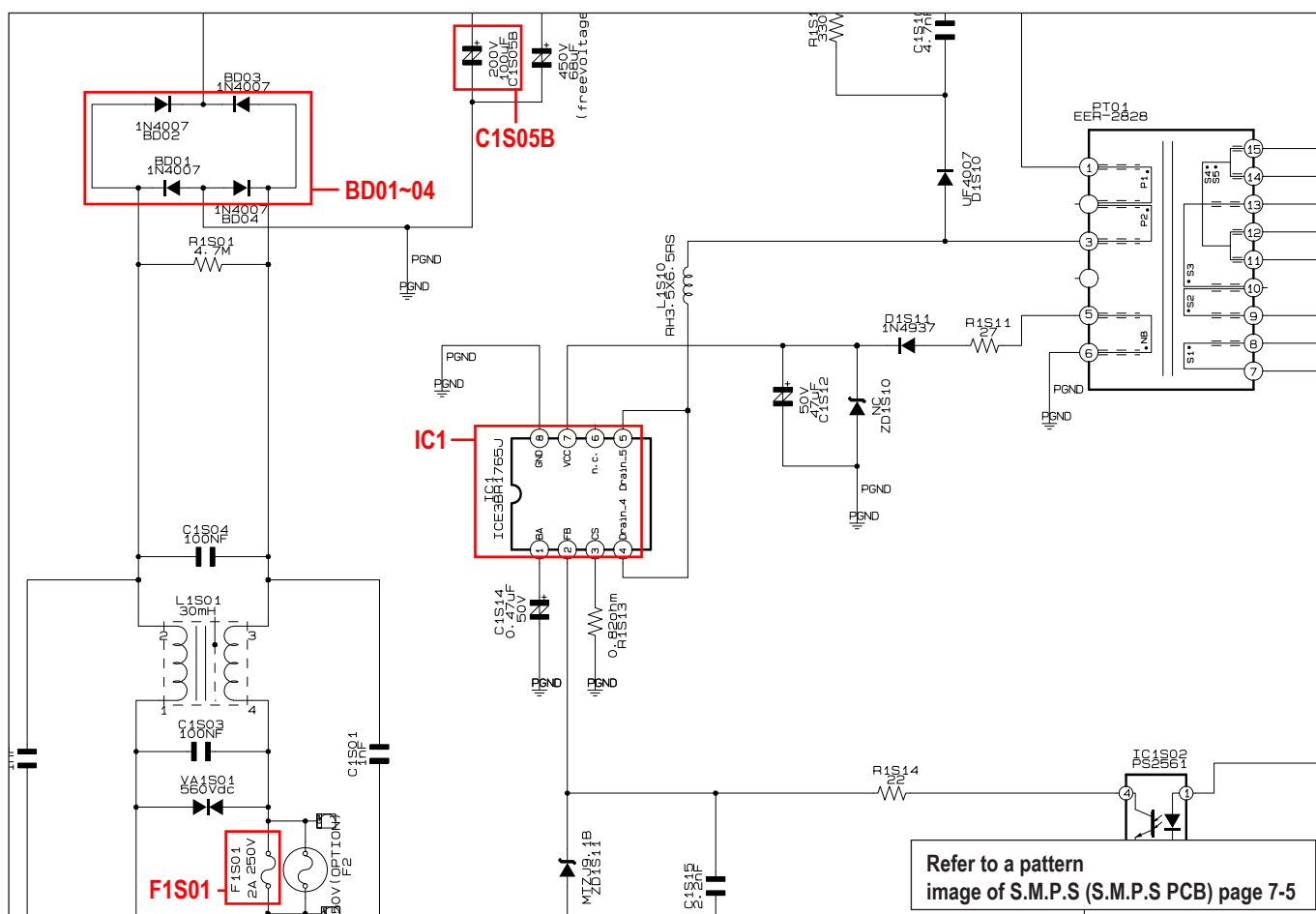
4. Trouble Shooting

4-1 Troubleshooting----- 4-2

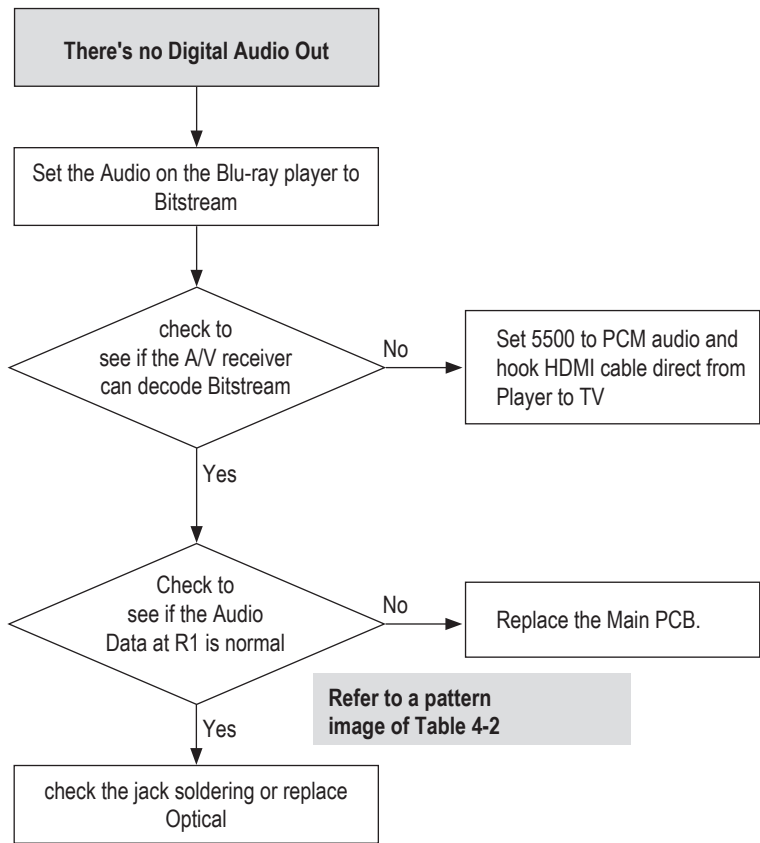
4-2 Software Update----- 4-24

4-1 Troubleshooting





Samsung Electronics



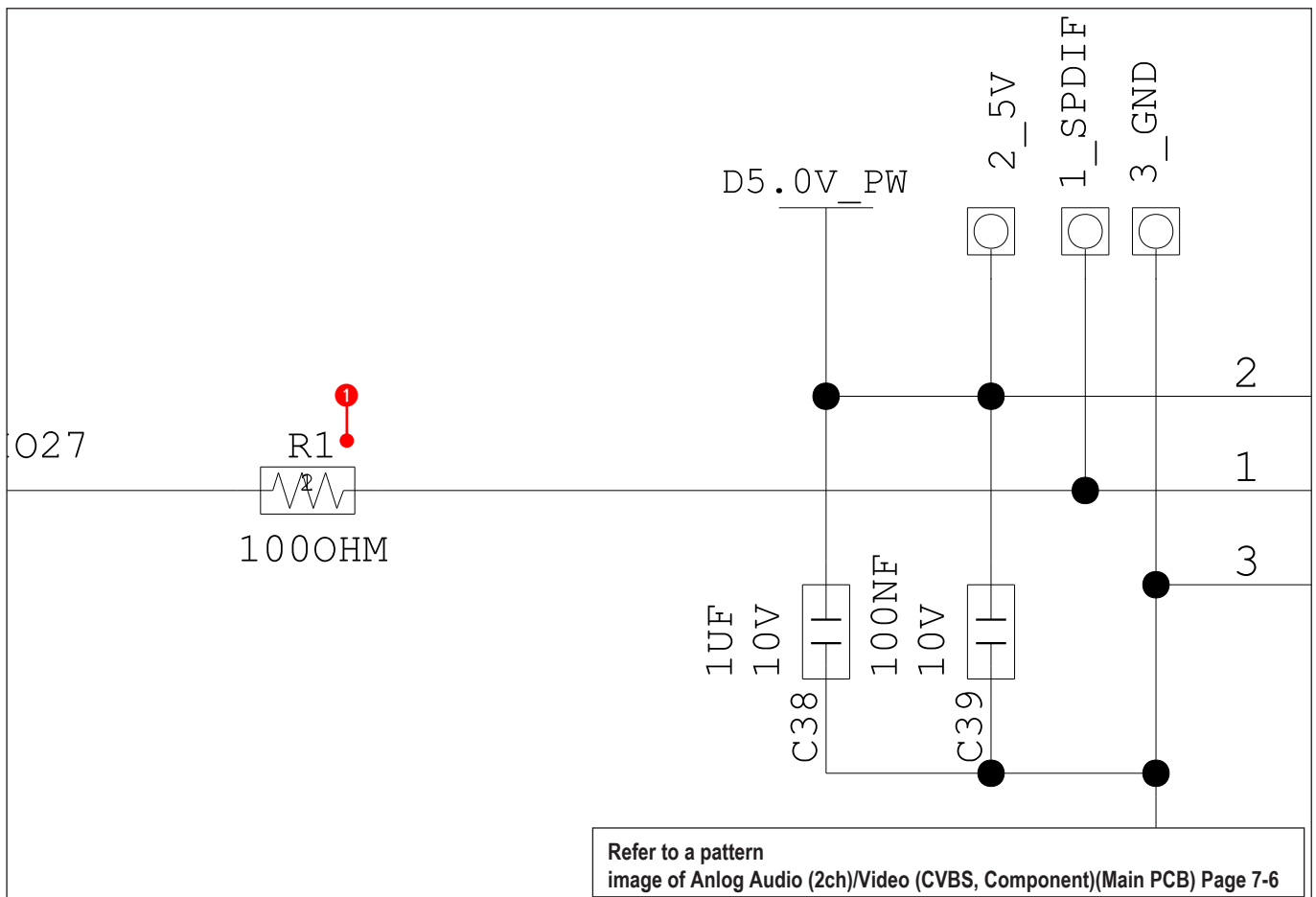
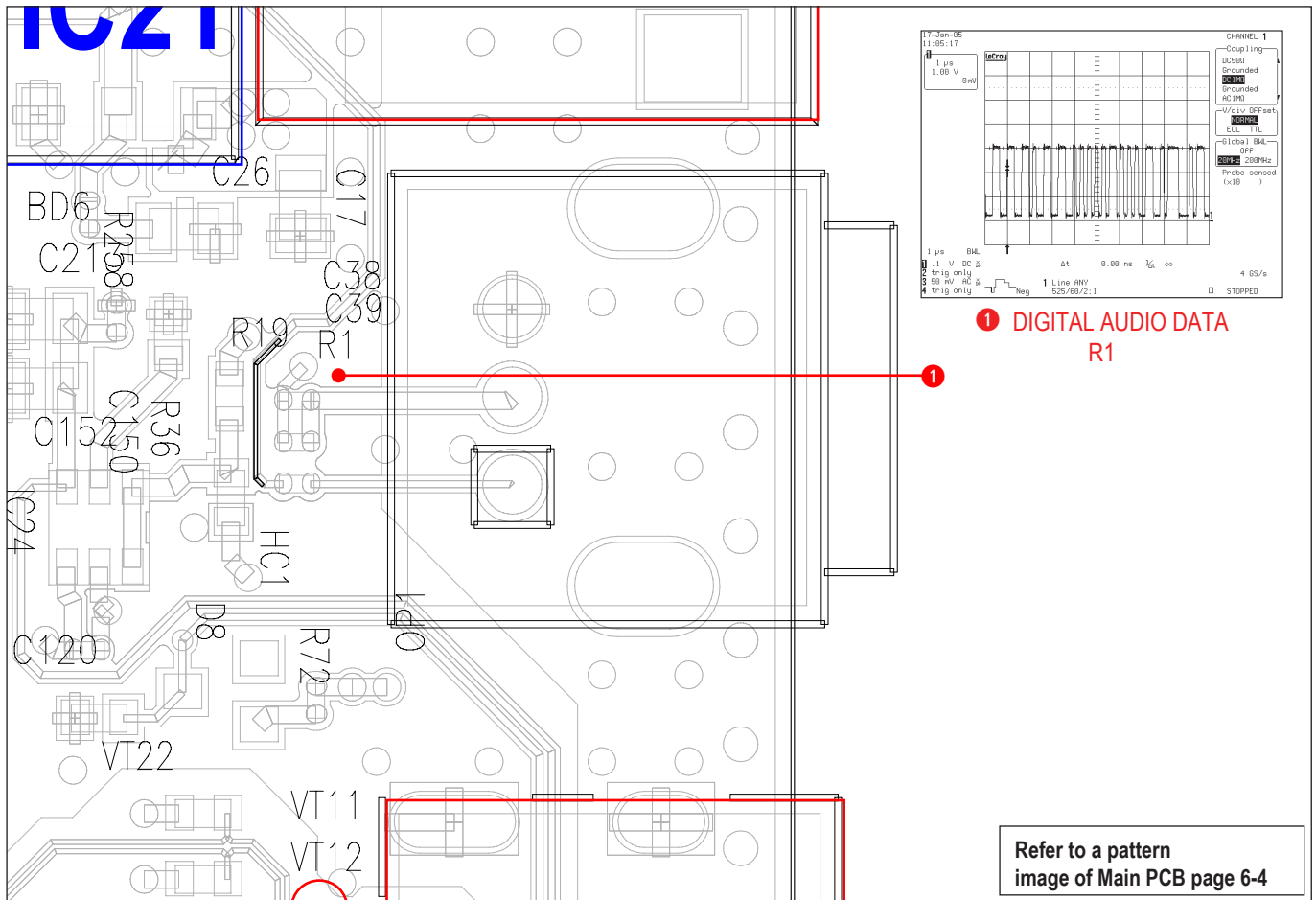
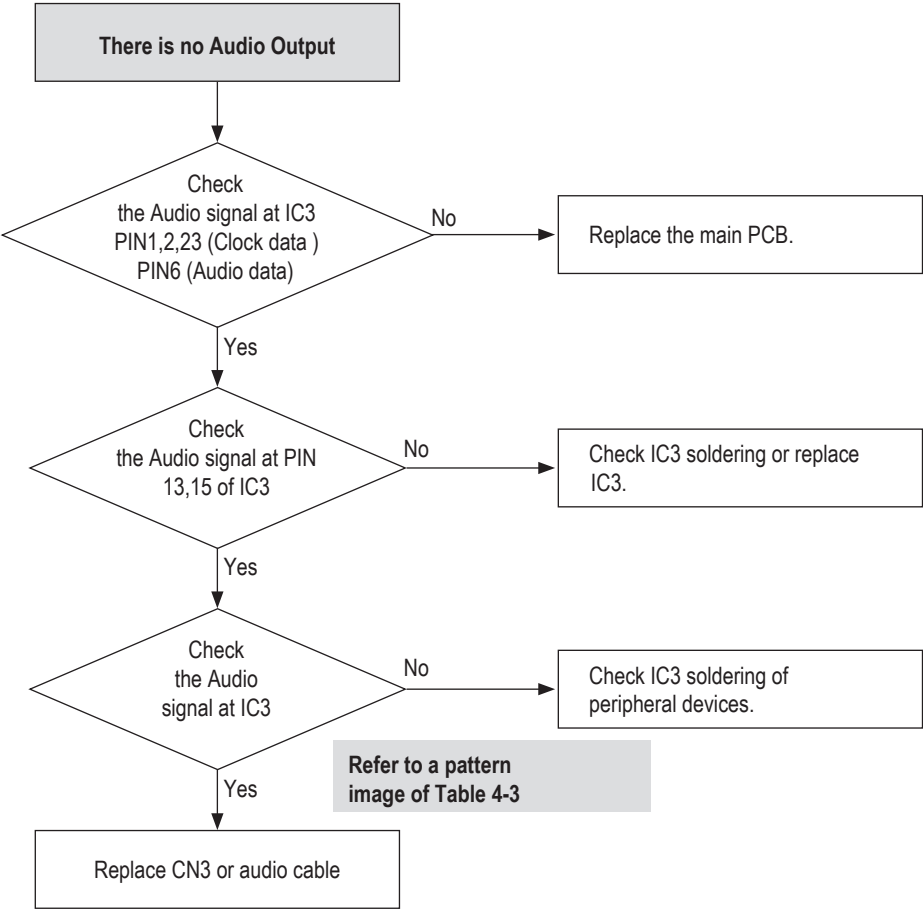


Fig. 4-2



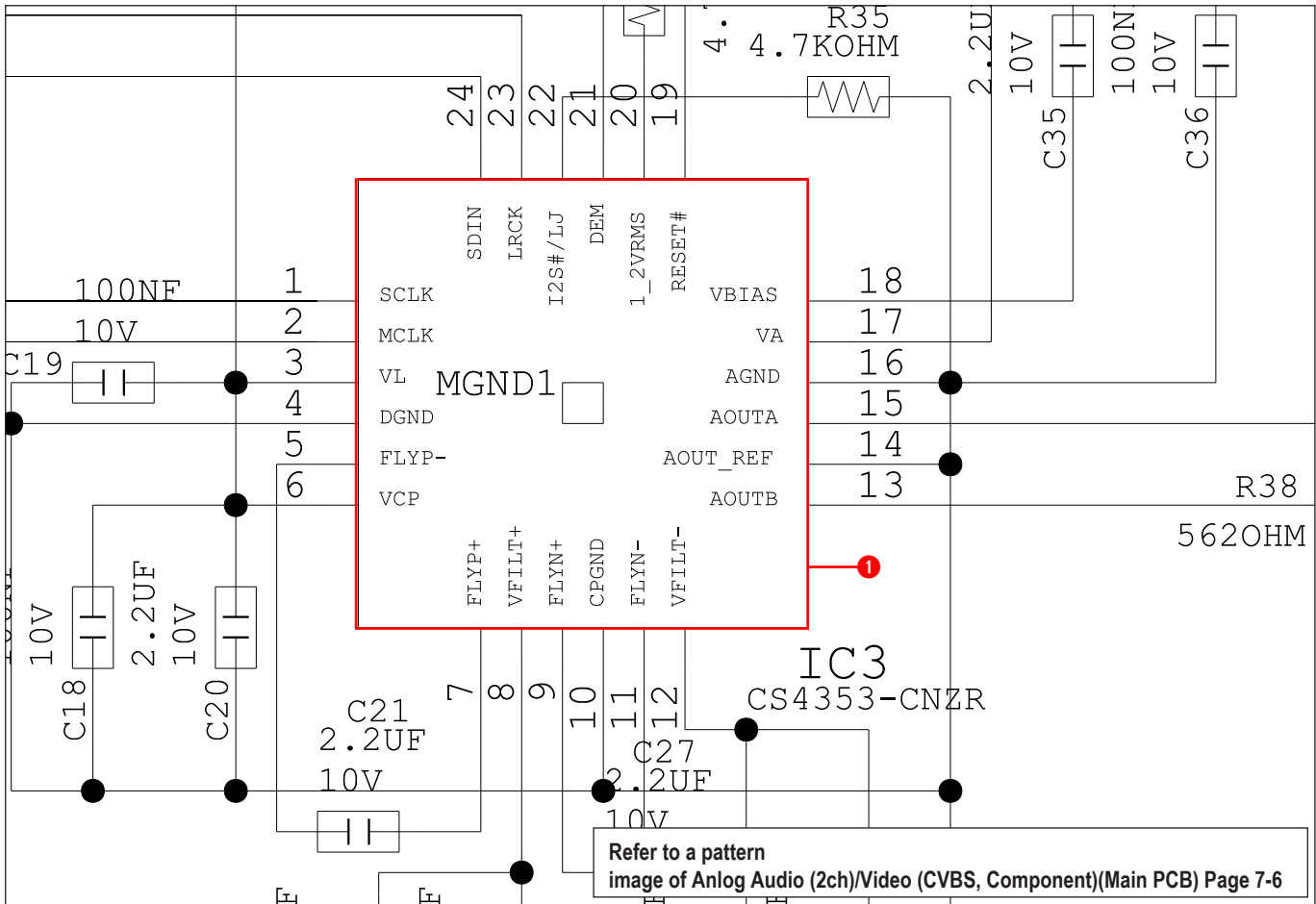
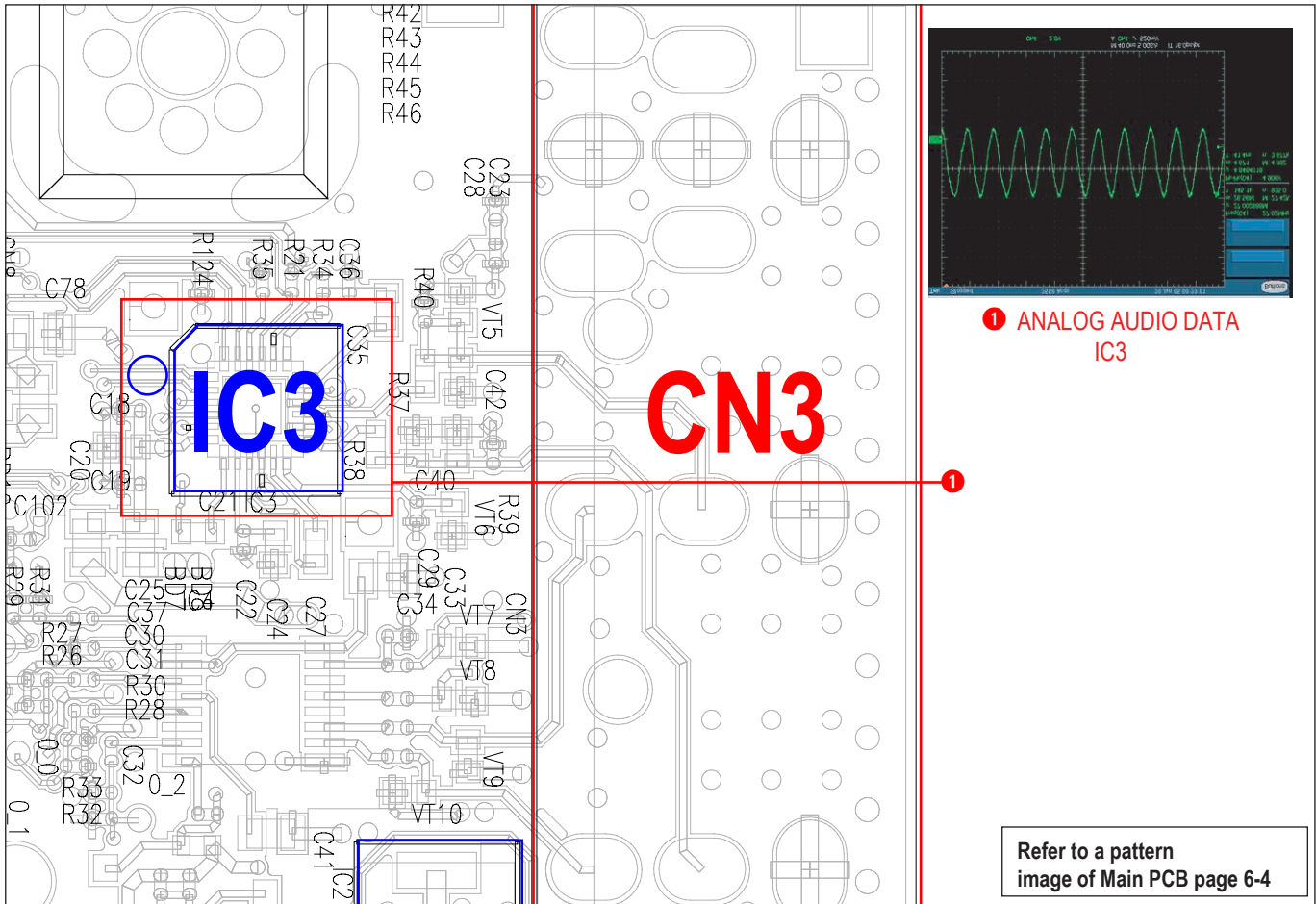
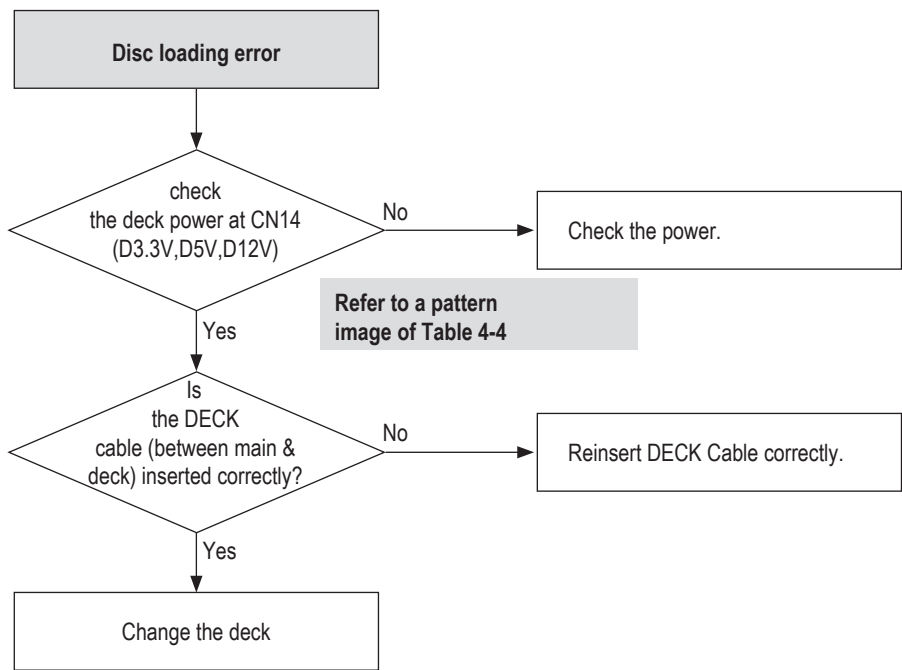


Fig. 4-3



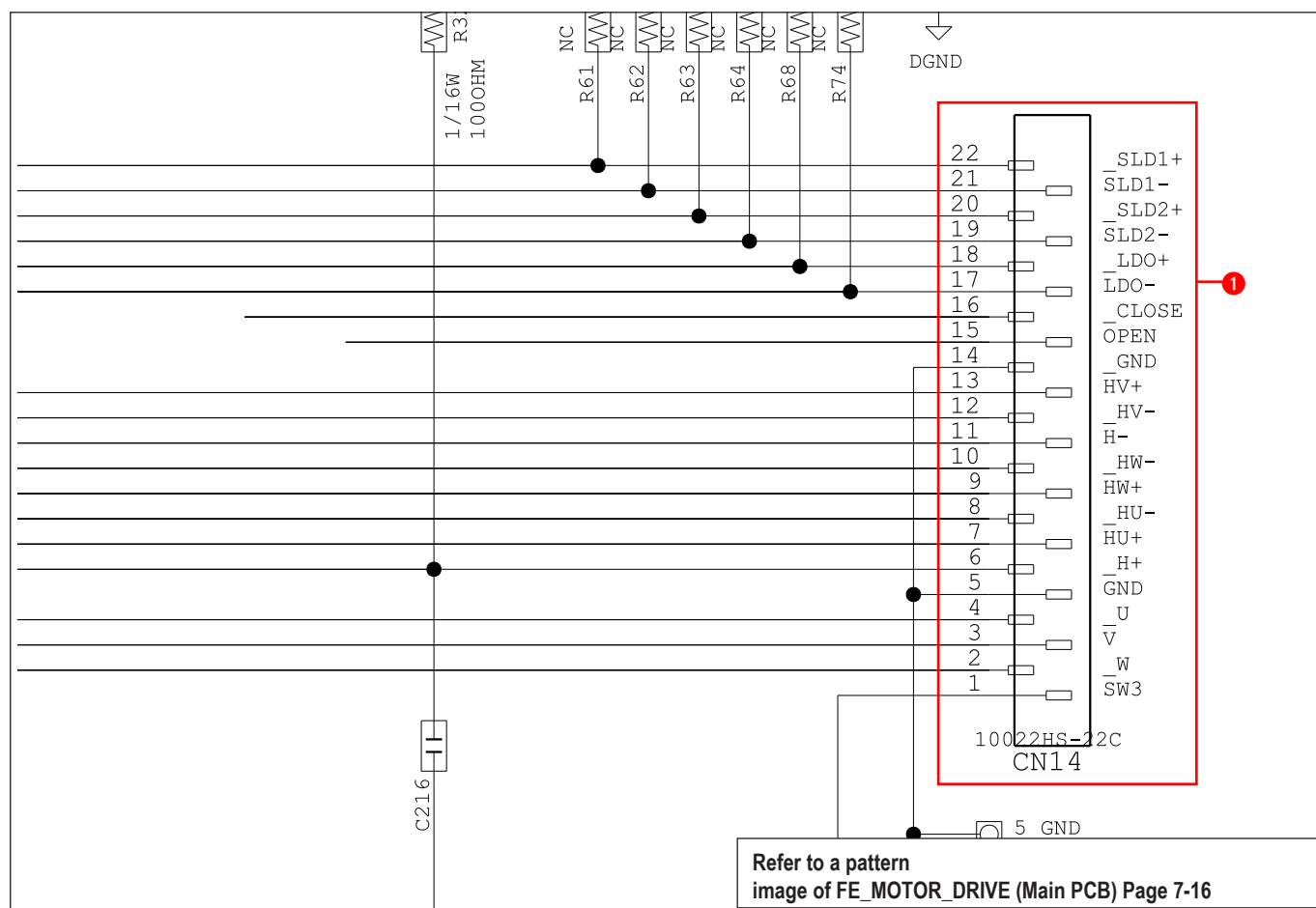
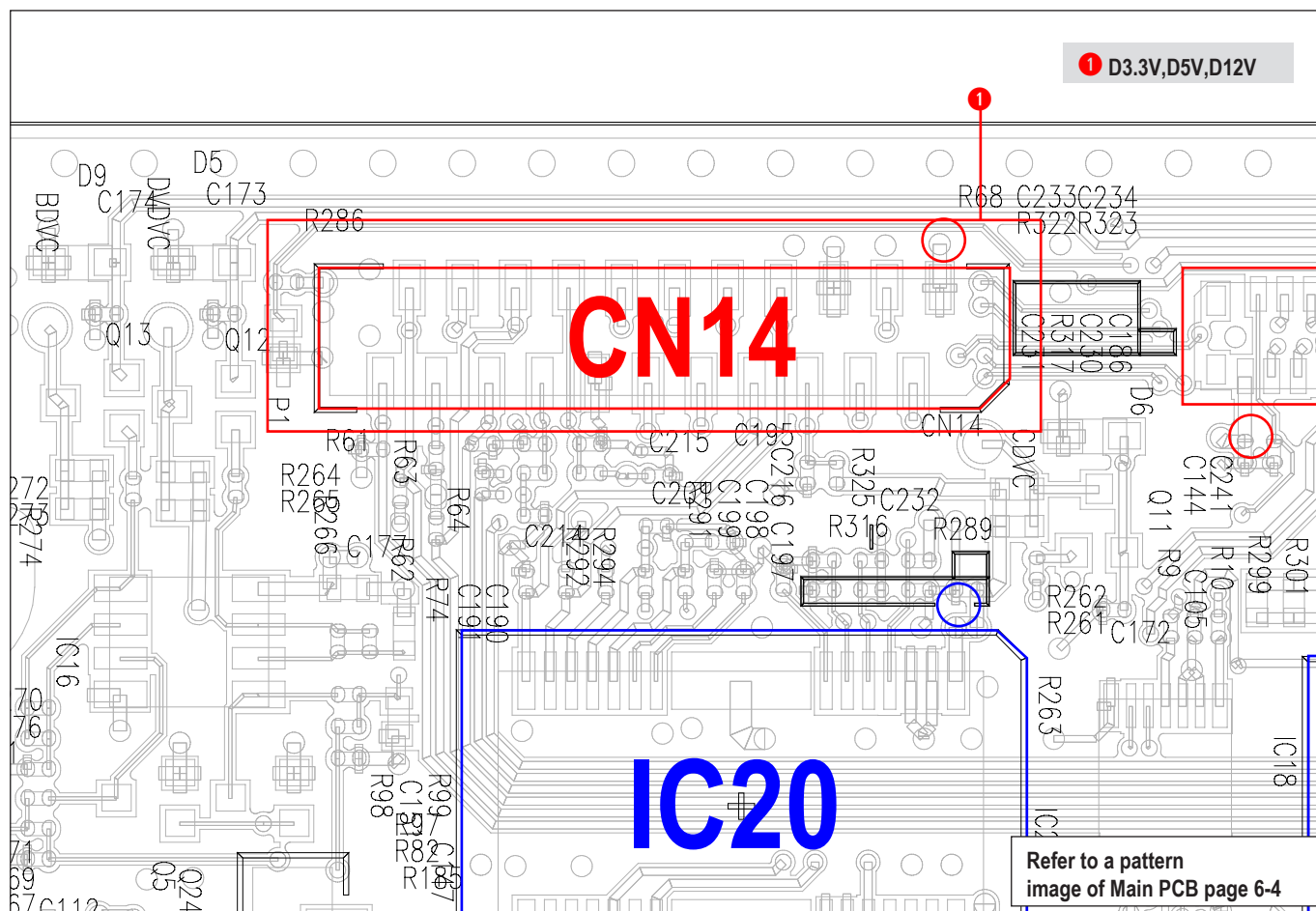
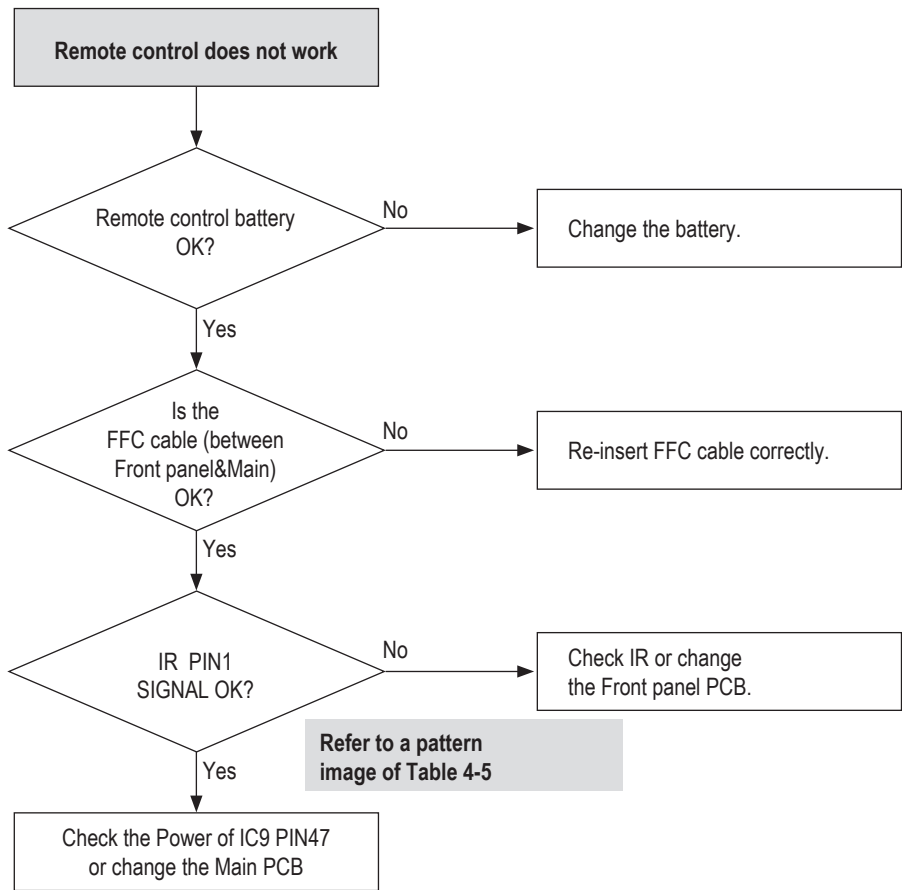


Fig. 4-4



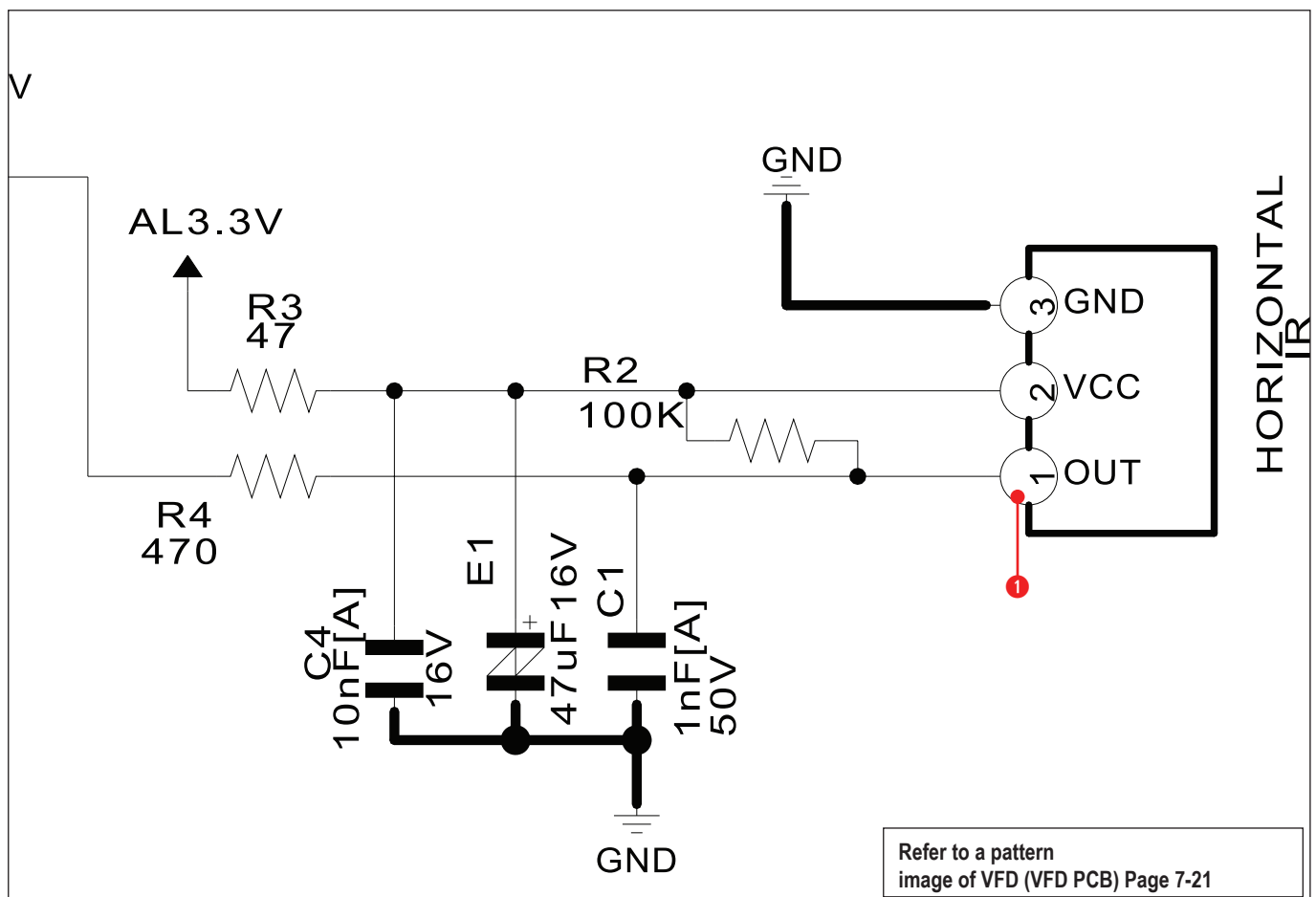
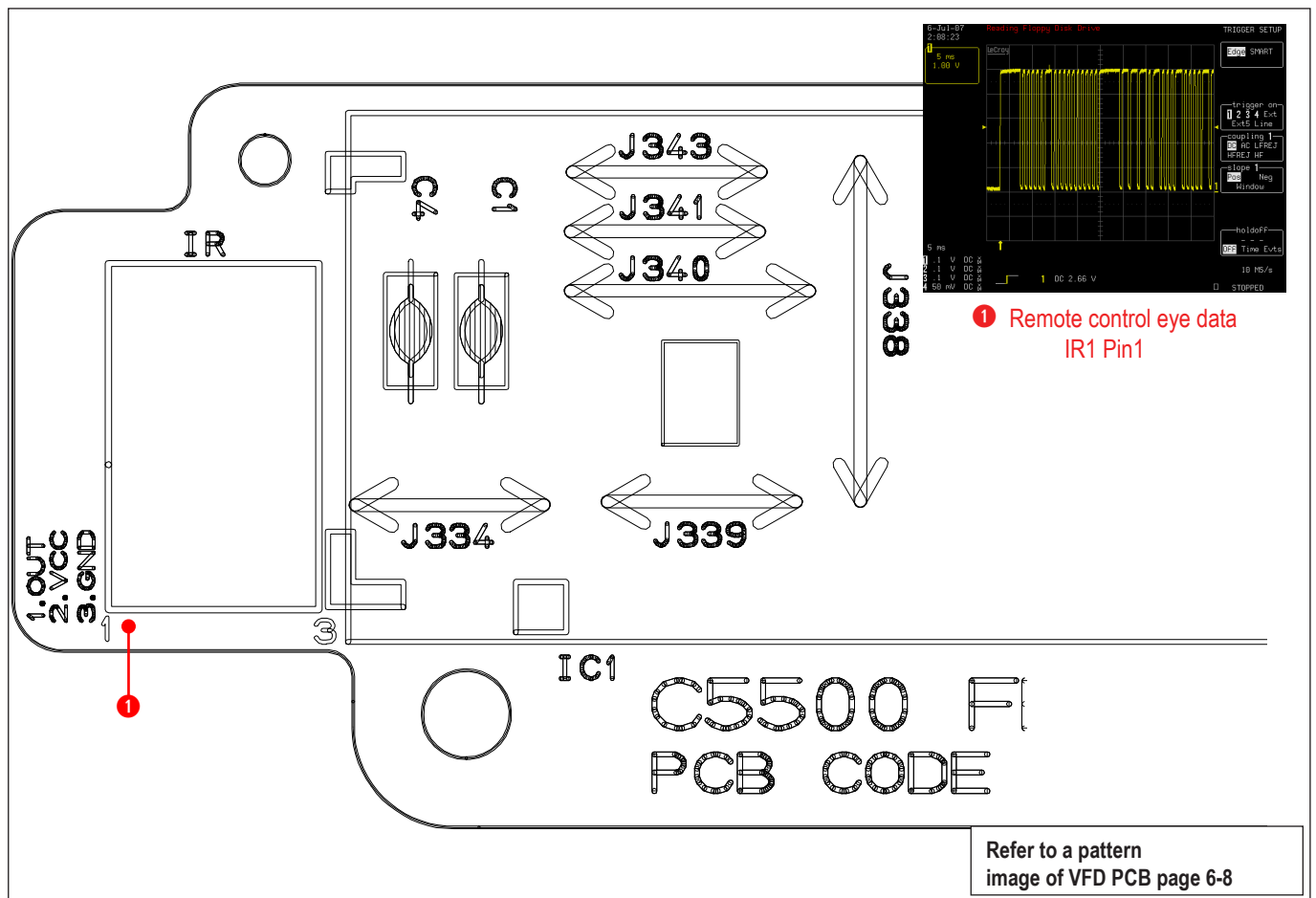
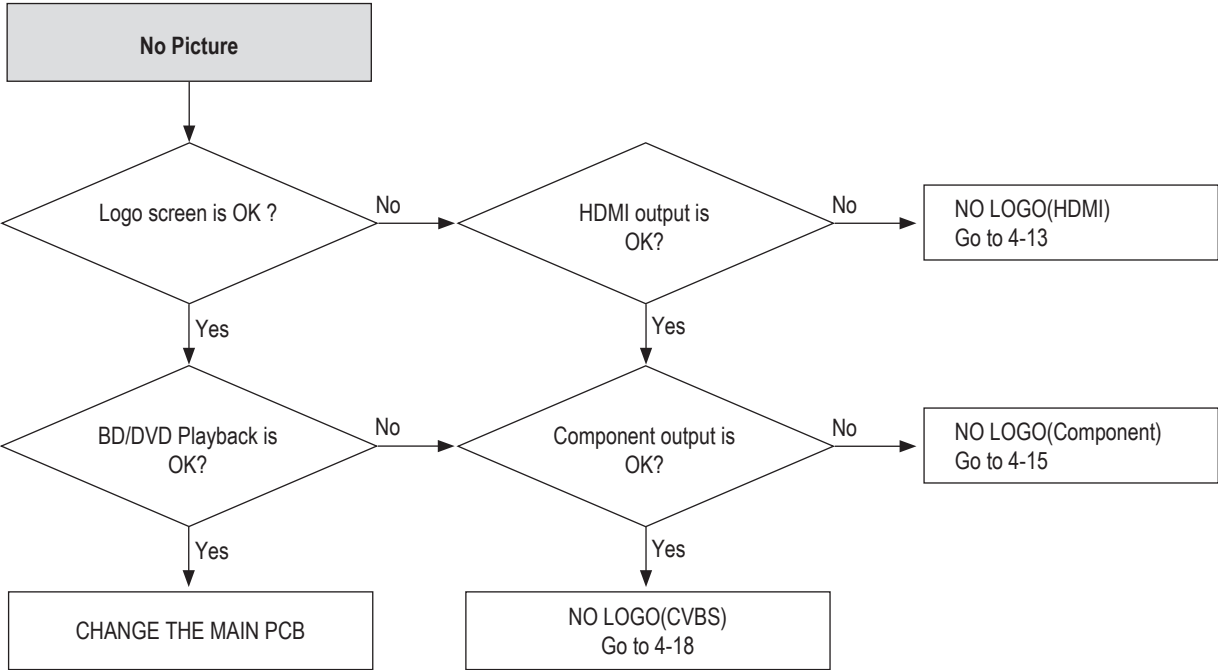
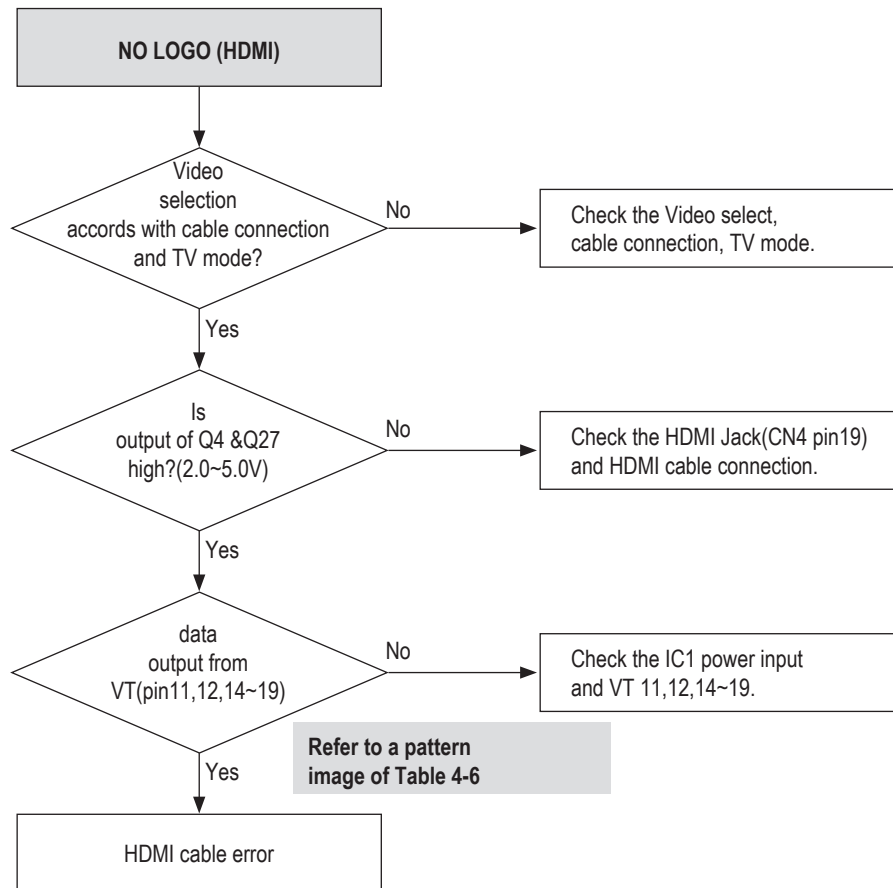
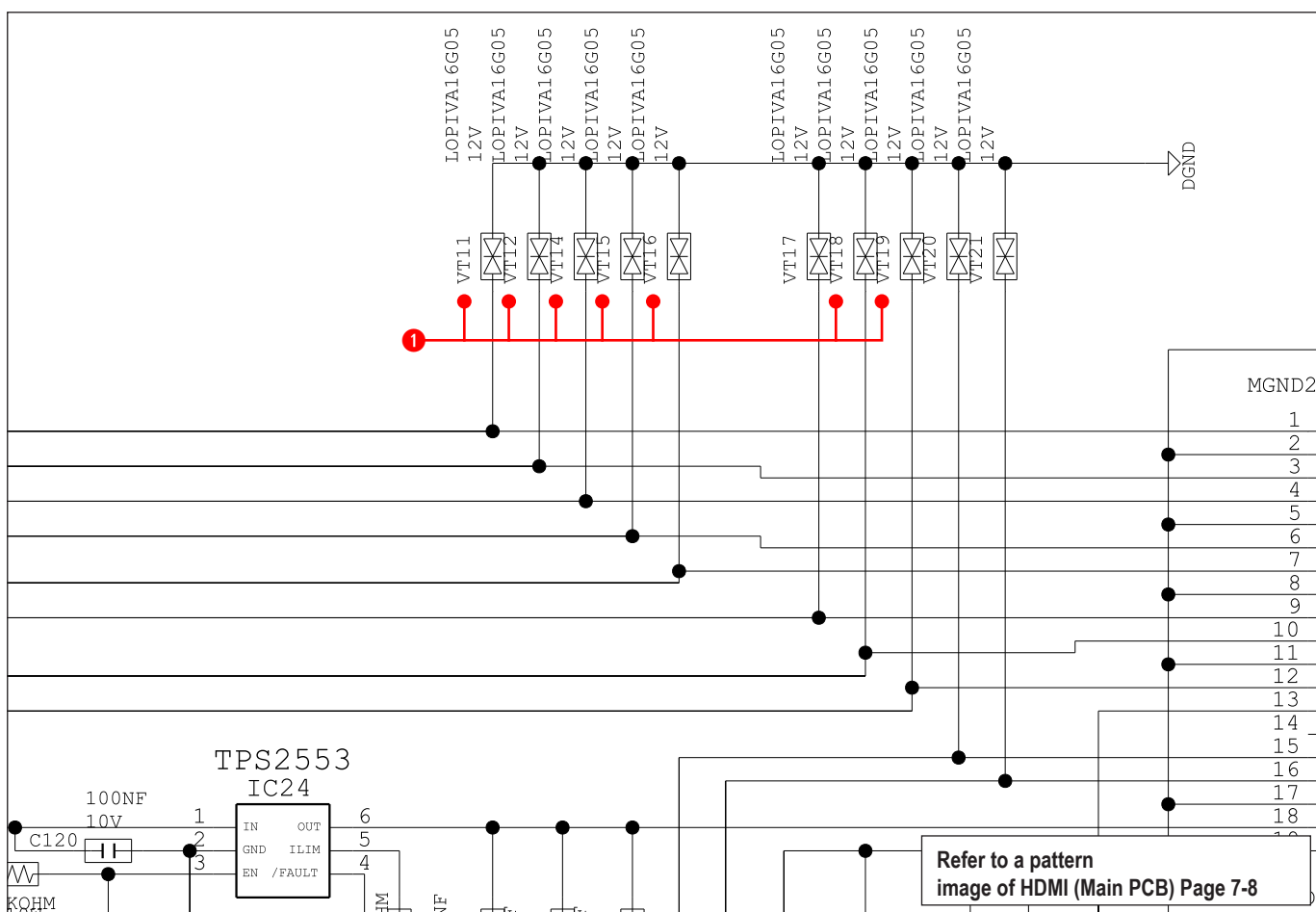


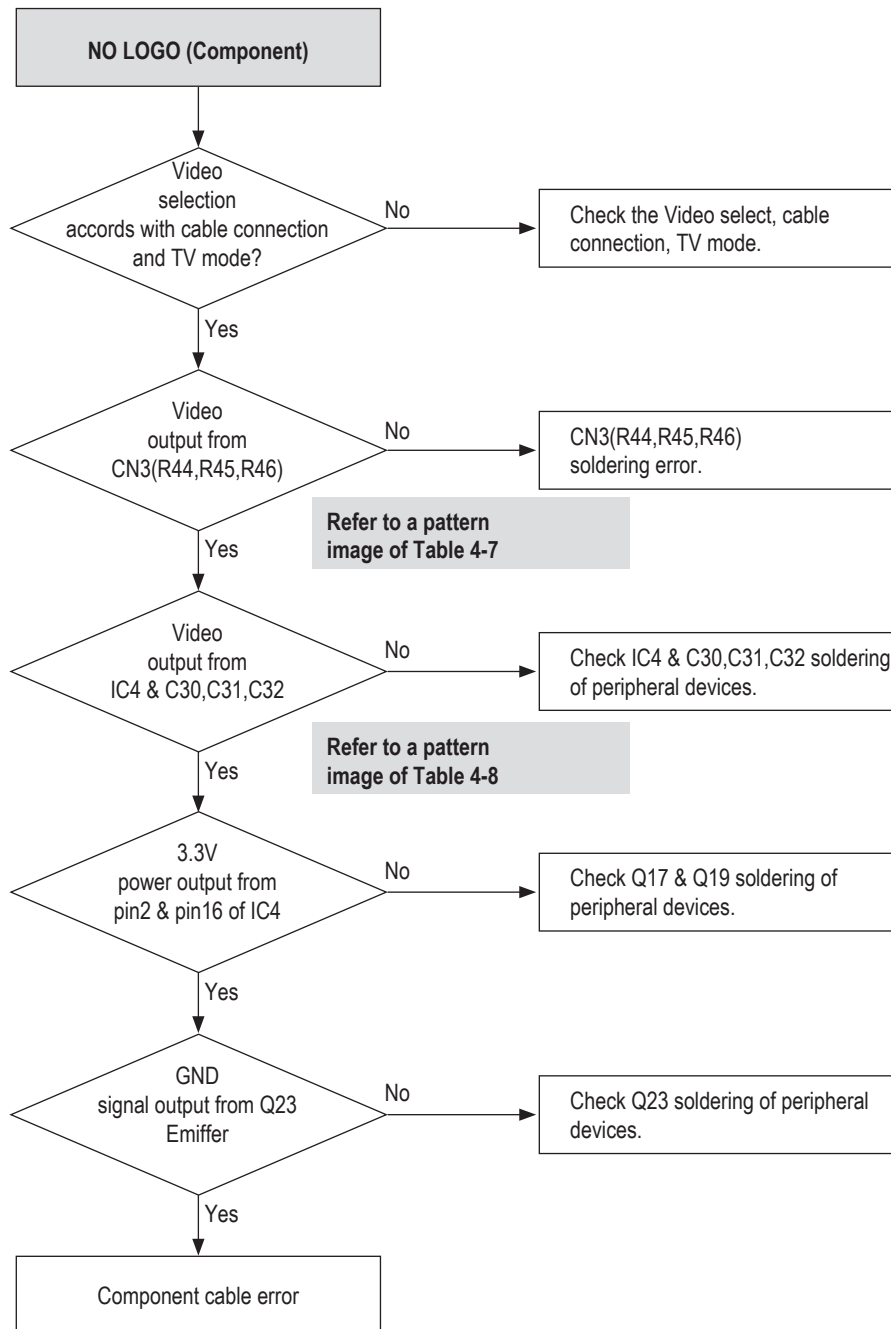
Fig. 4-5







4-14



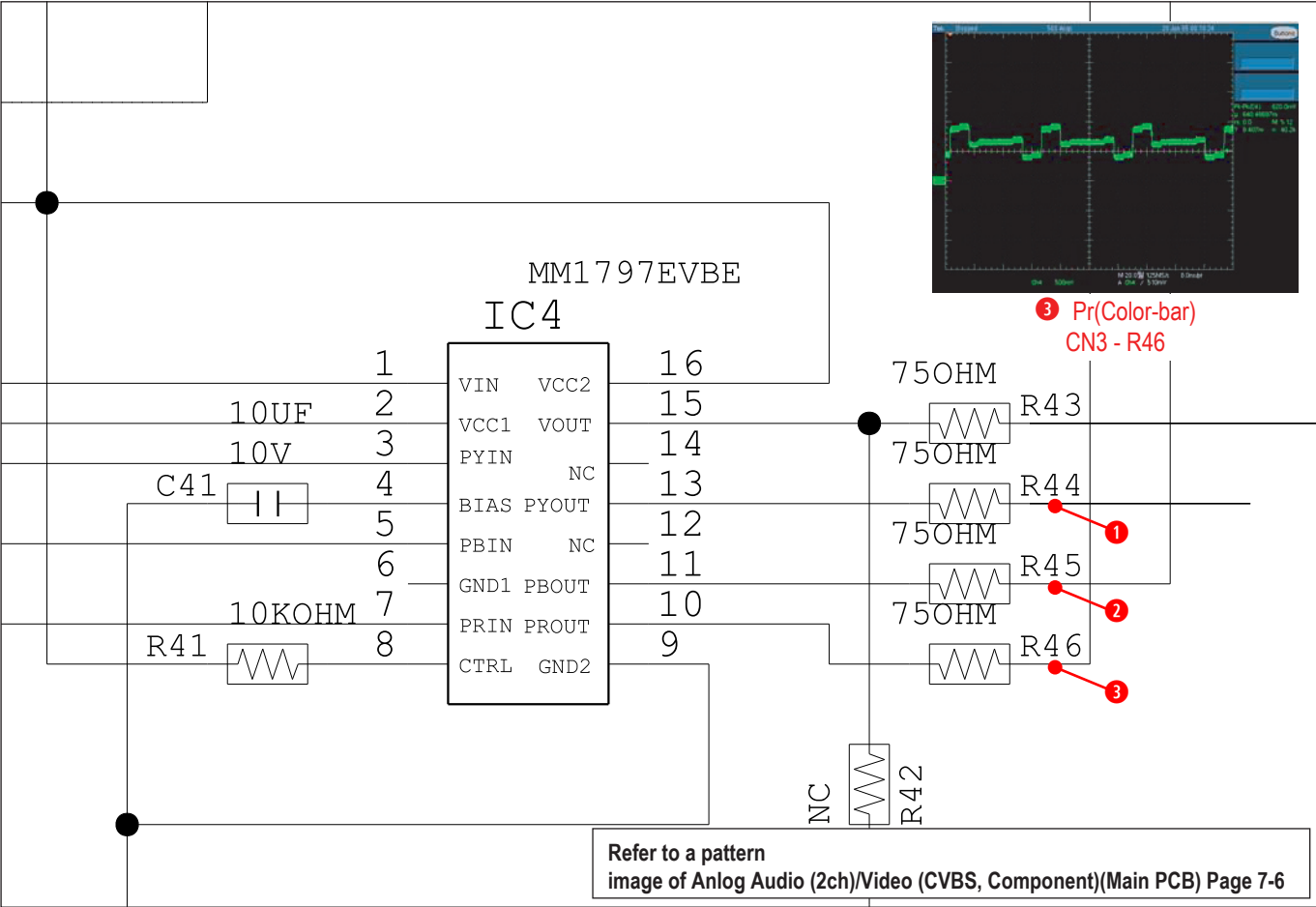
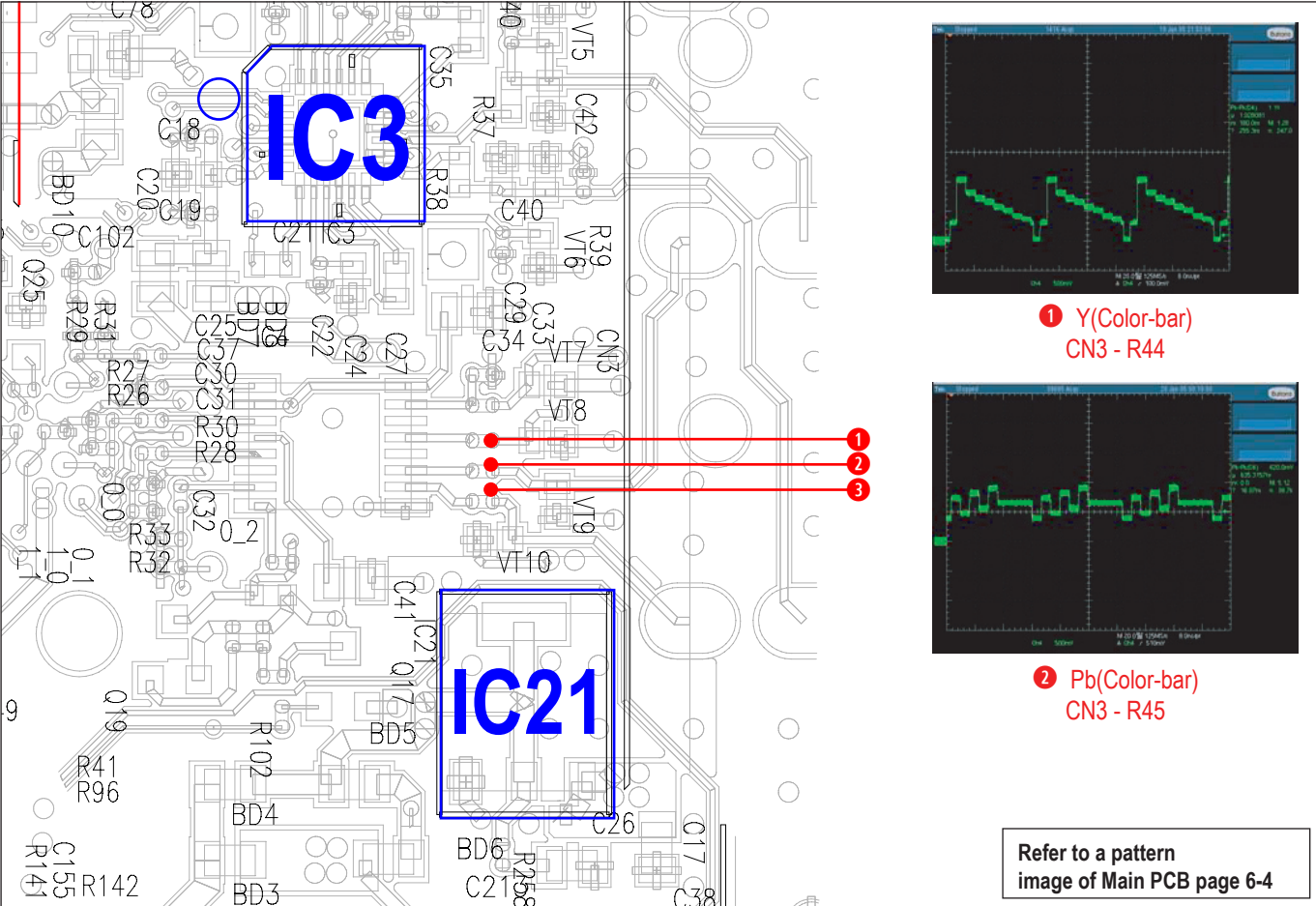


Fig. 4-7

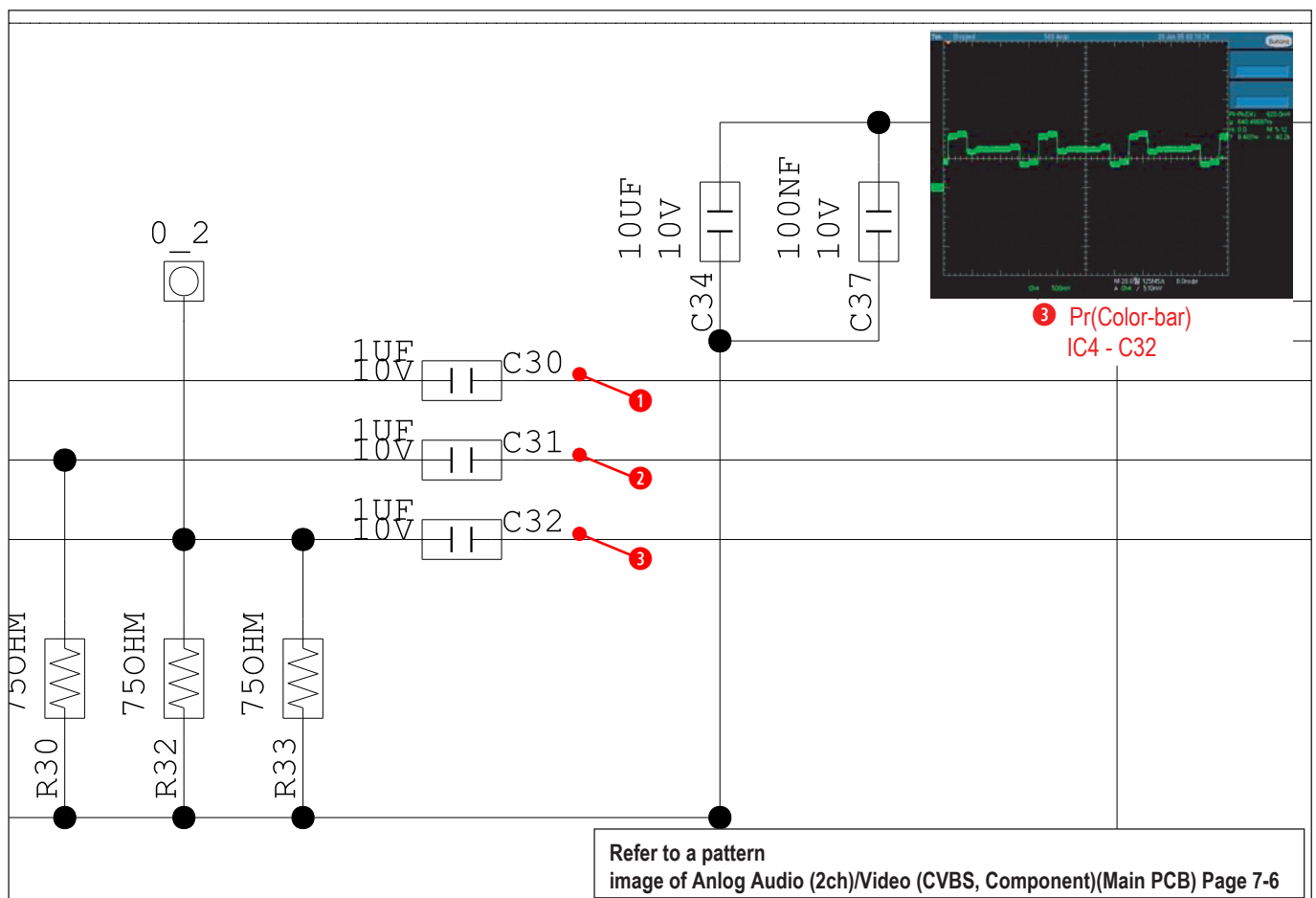
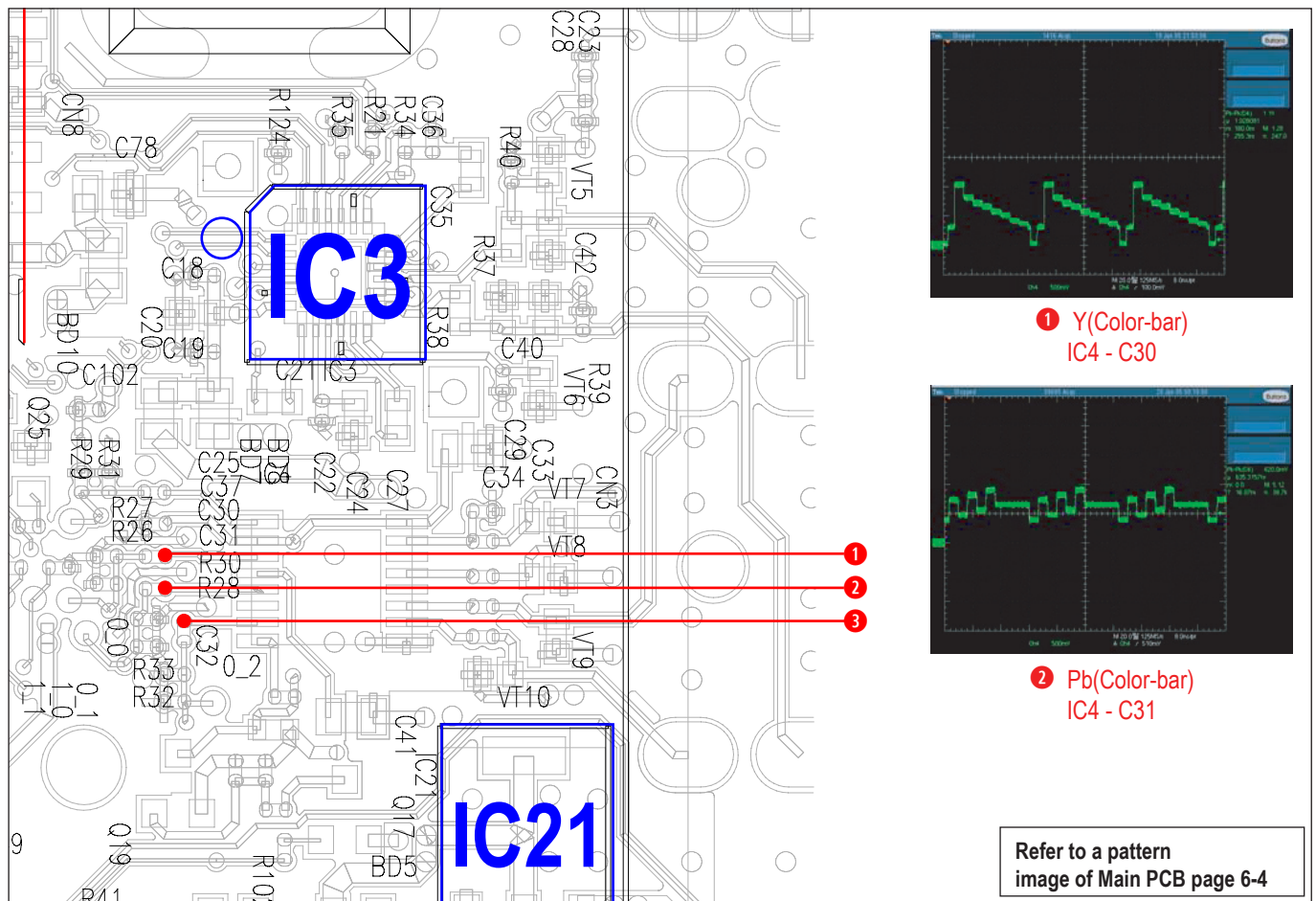
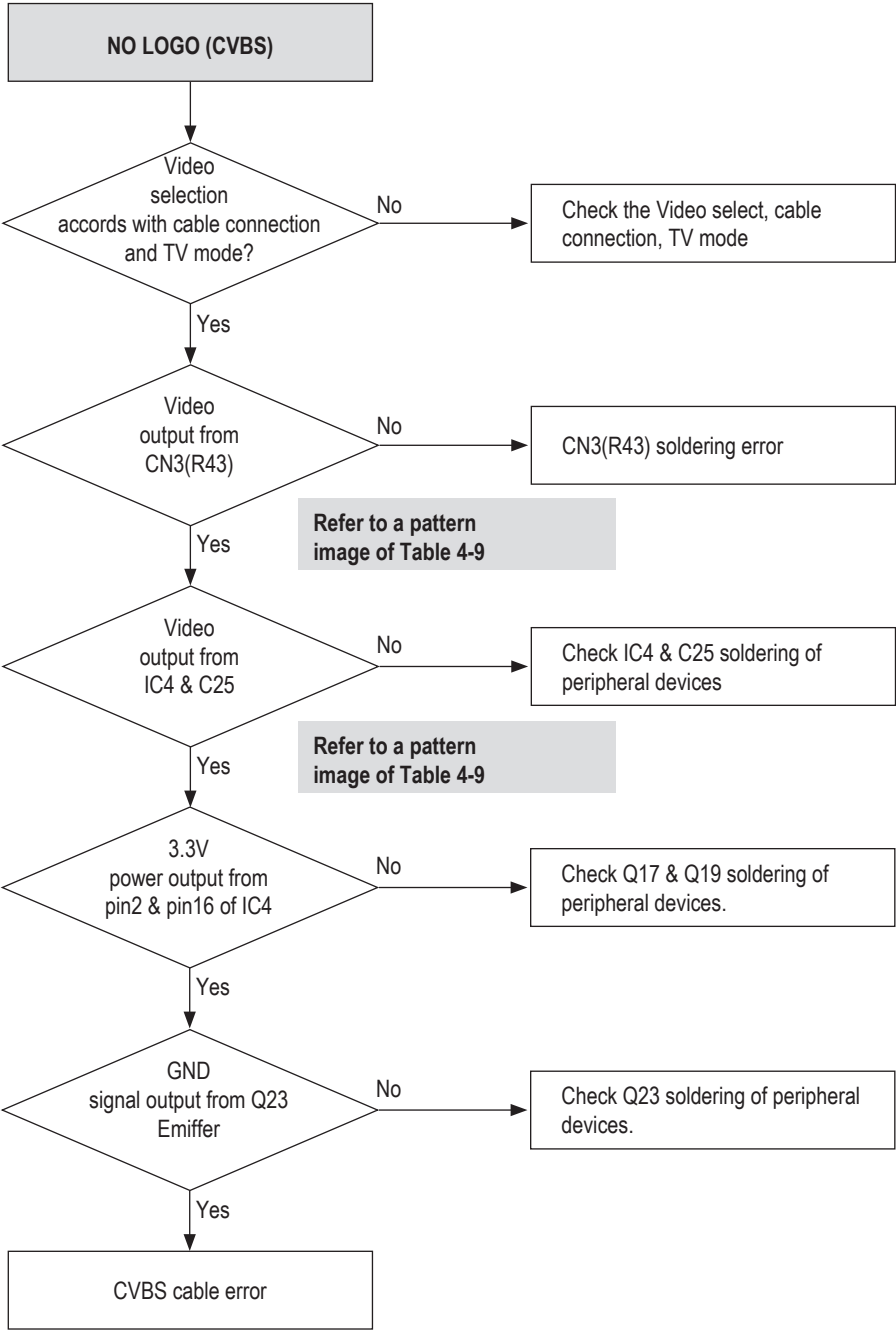


Fig. 4-8



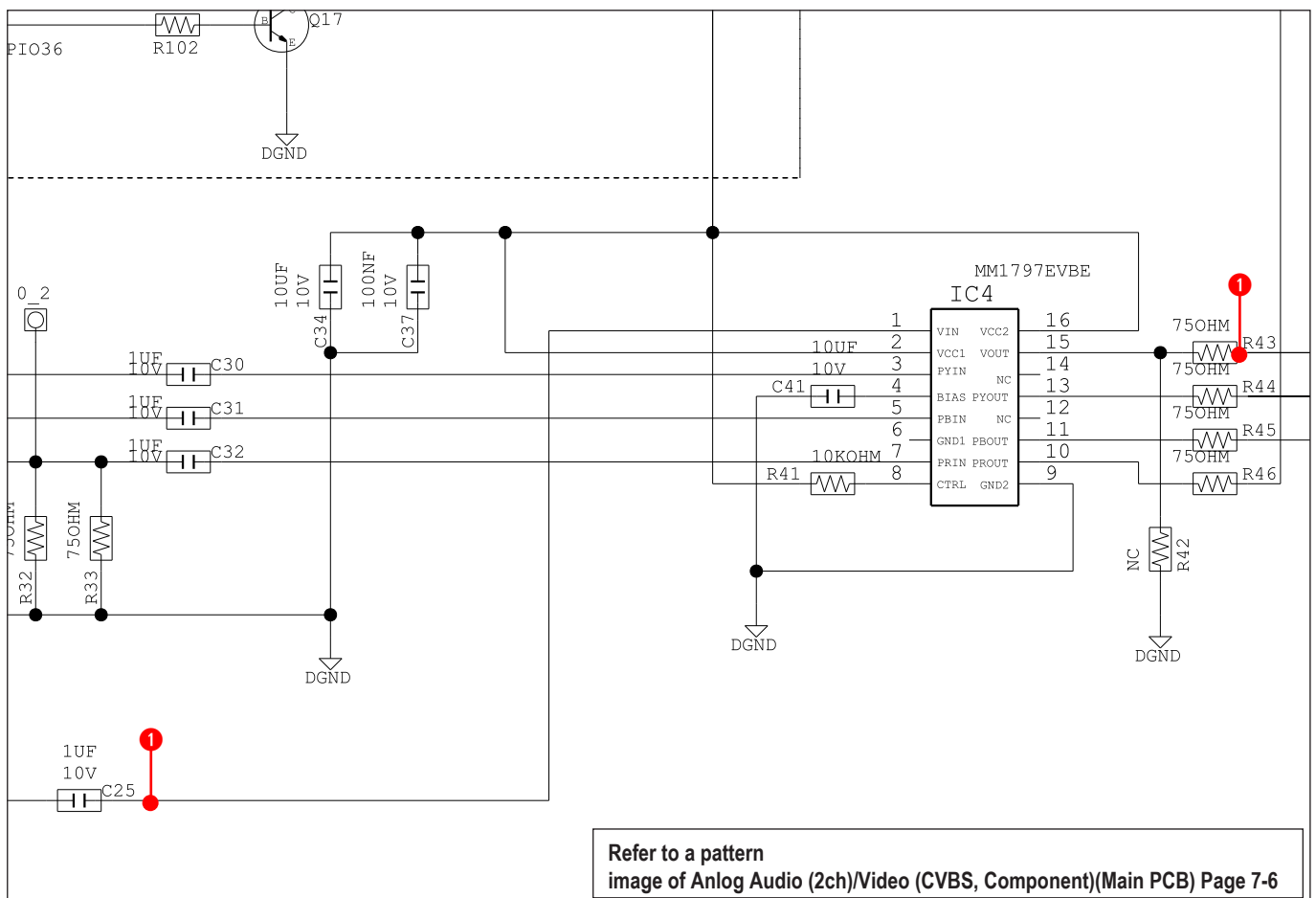
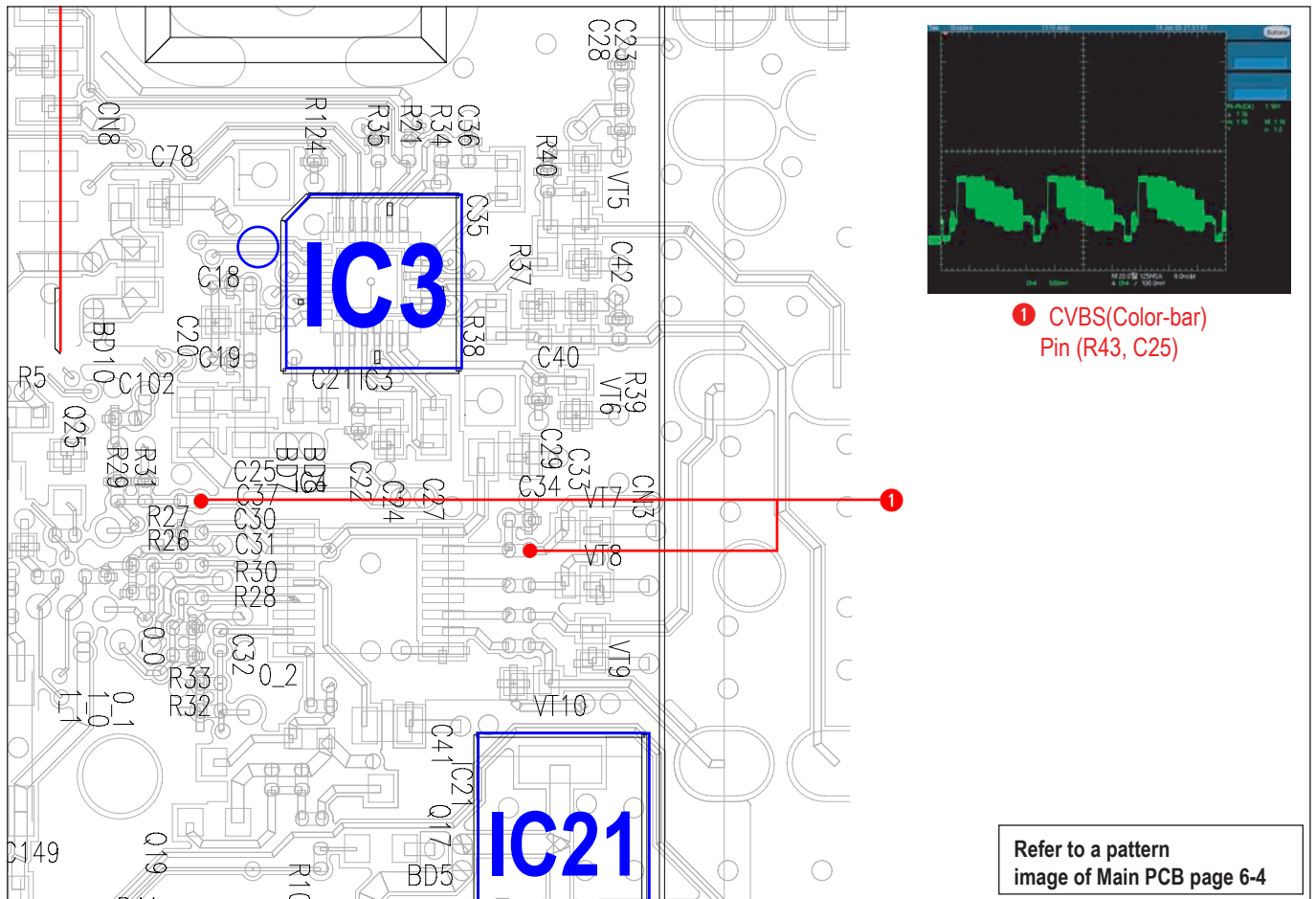
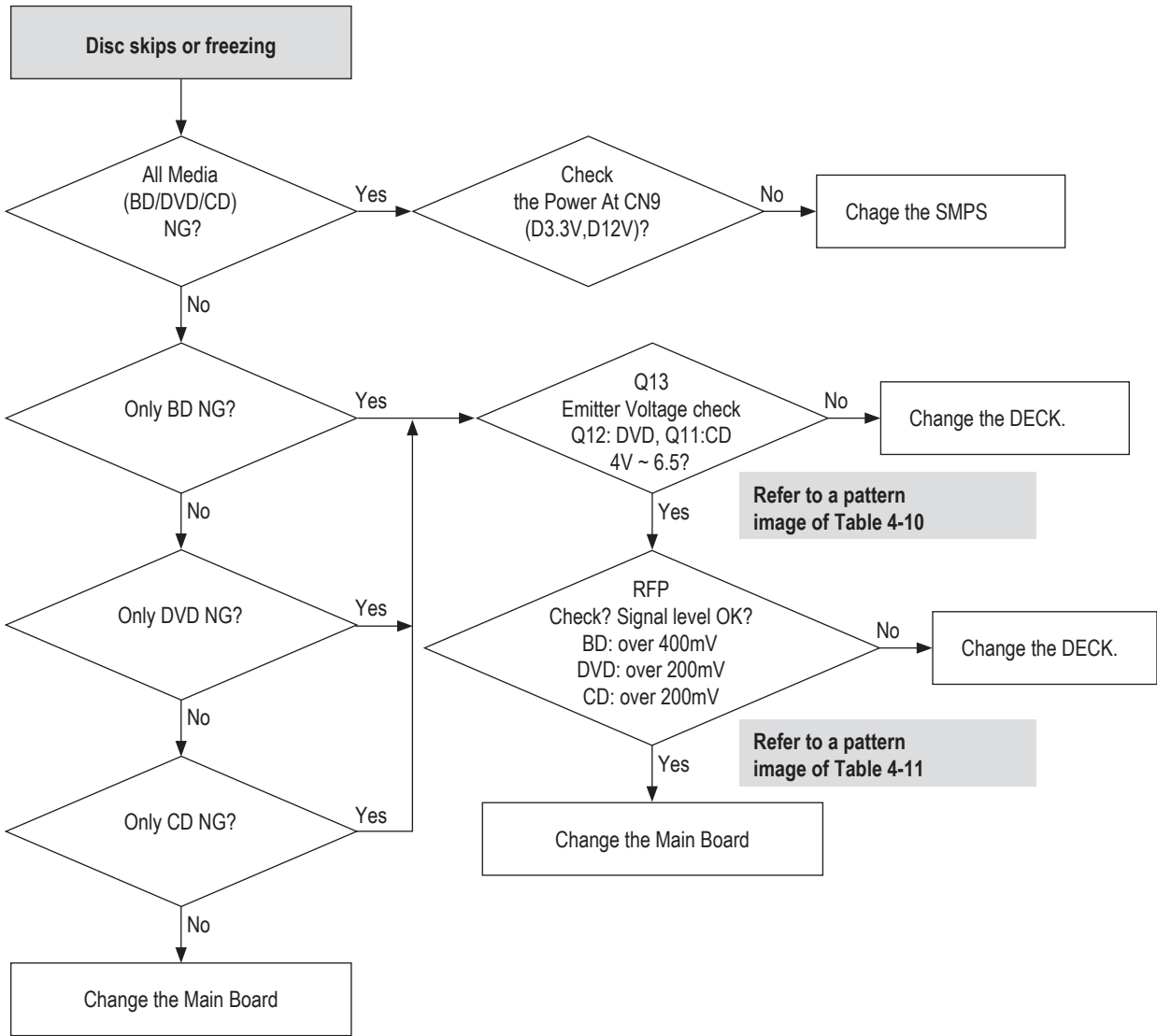


Fig. 4-9



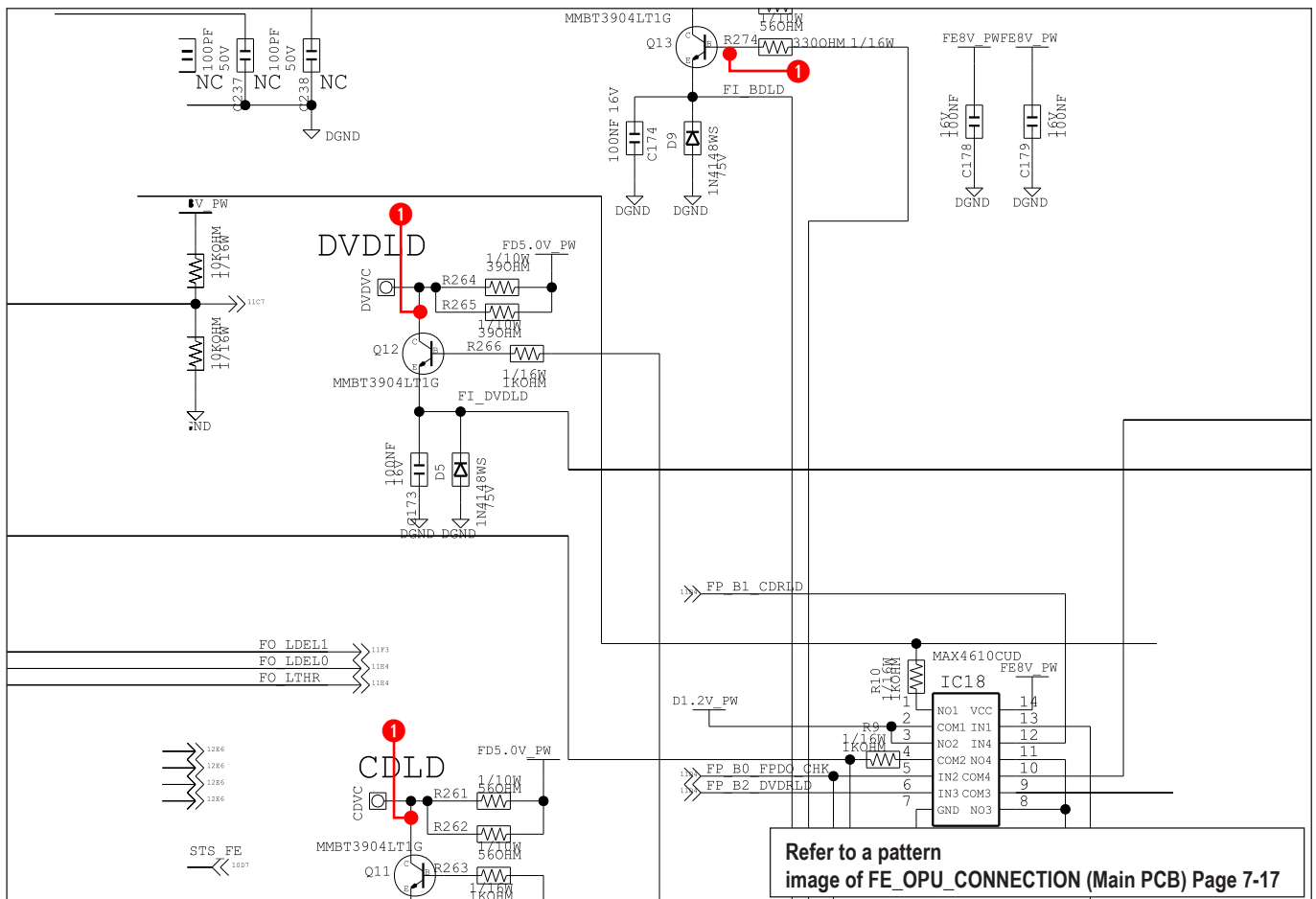
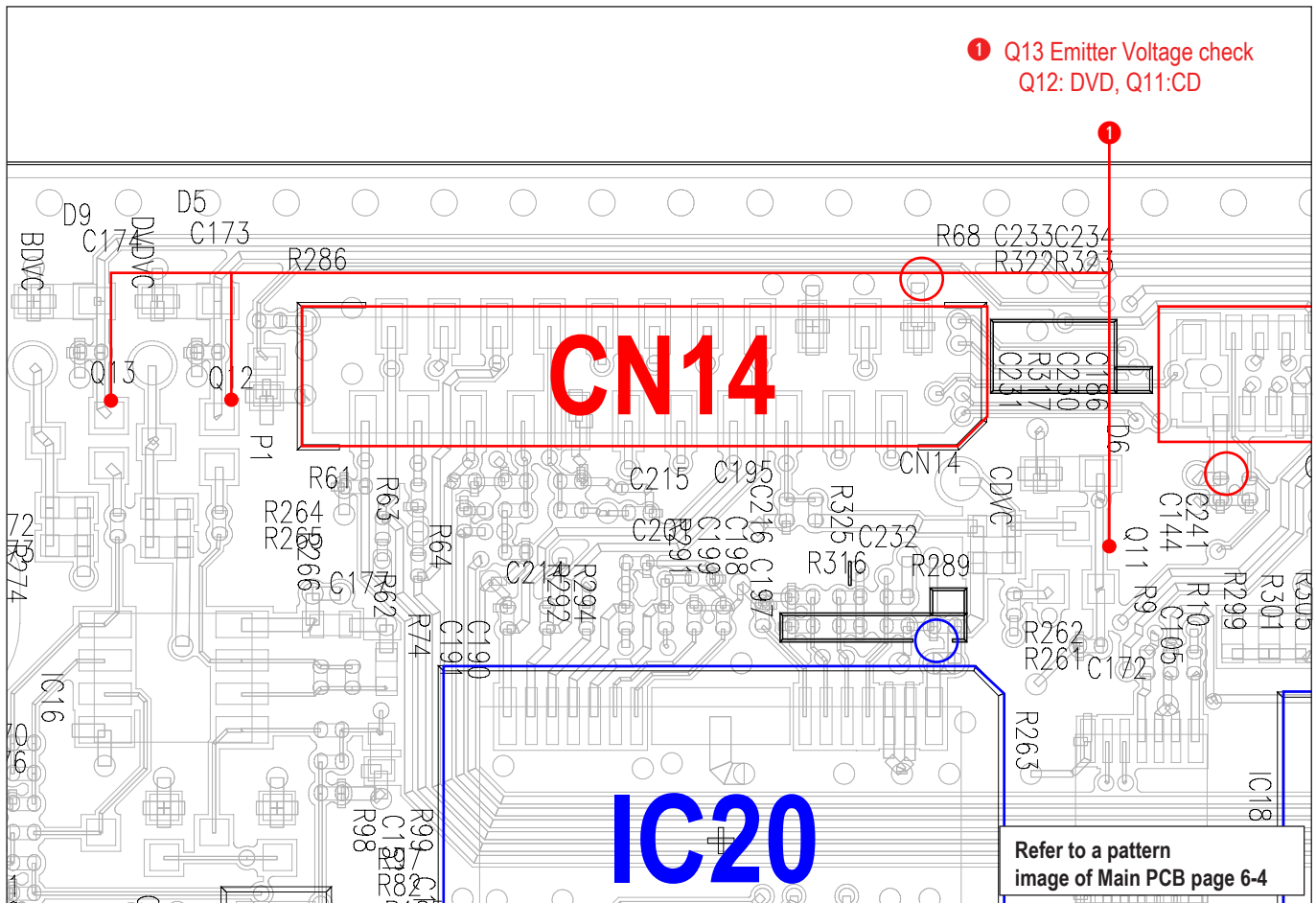
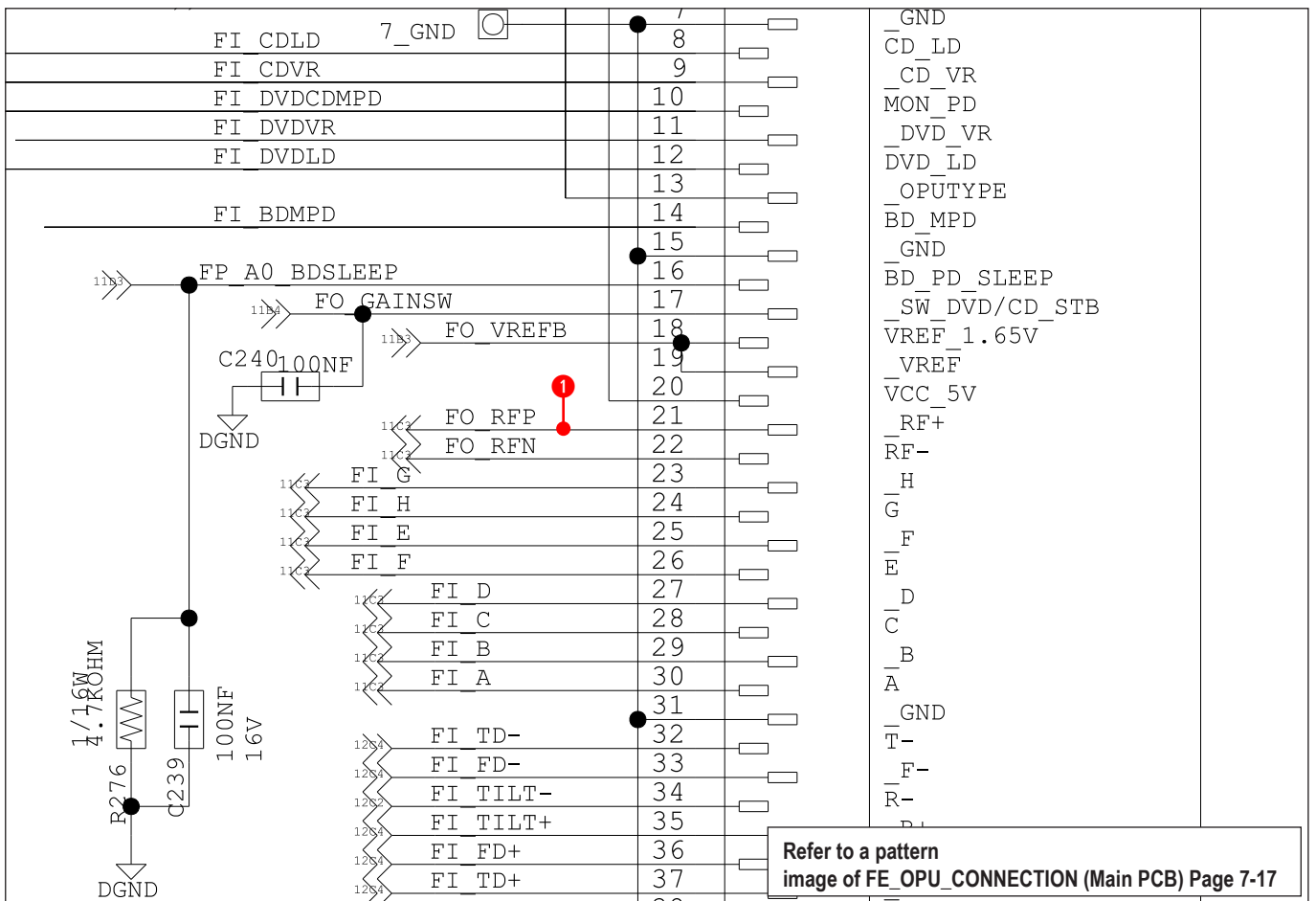
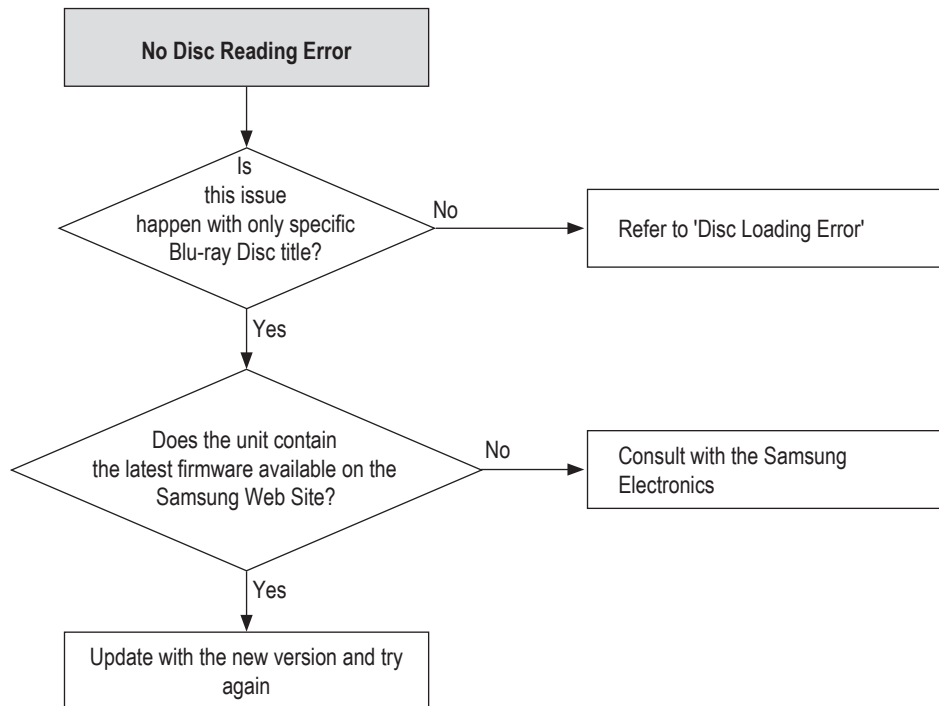


Fig. 4-10



Samsung Electronics



4-2 Software Update

How to Upgrade F/W

This menu allows you to upgrade software for performance improvements or additional services. You can check the current software version, upgrade by internet and set the auto upgrade notification by using this menu. If the auto upgrade notification is set to "ON" and the product is properly connected to the network, it will automatically connect to our web-site each time it is turned on and download any update files that are available.

4-2-1 Network Upgrade

- 1) Starting at the "Home Menu" press the right arrow to highlight SETTINGS and press [Enter] (see Fig. 4-12)



Fig. 4-12

- 2) Press the up/down arrows to highlight SUPPORT and press [Enter] (see Fig. 4-13)



Fig. 4-13

- 3) Press [Enter] on SOFTWARE UPGRADE (see Fig. 4-14)

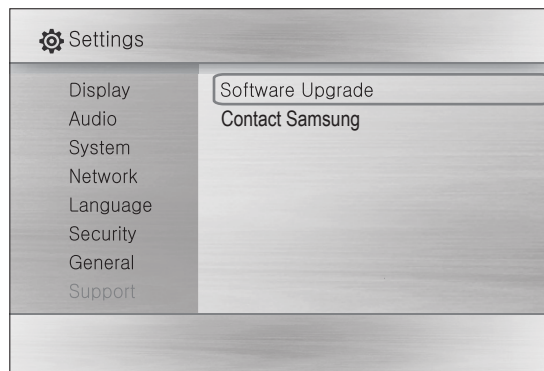


Fig. 4-14

- 4) Press [Enter] on BY INTERNET and the Blu-ray Disc player will search online for the most recent firmware update. (see Fig. 4-15)

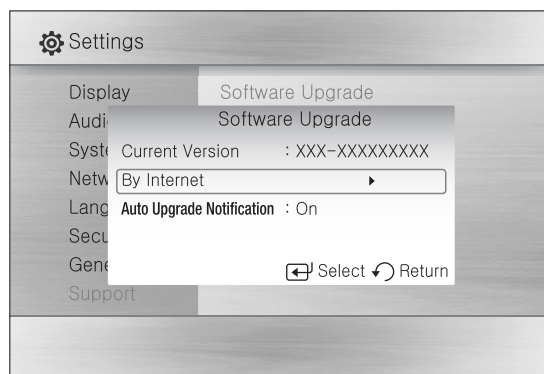


Fig. 4-15

- 5) If a firmware update is found you must then press [Enter] on YES to begin the update. If you select YES the player will then turn off and on automatically. (Never turn it on Manually at this stage) If no firmware is available you will see a message saying "The latest upgrade file is already installed. There is no need to upgrade." (see Fig. 4-16)



Fig. 4-16

- 6) The upgrade progress bar will appear.
When the update is completed the Blu-ray Player will turn off automatically.
- 7) It is now safe to power on your Blu-ray Player

[Note]

- The update will be completed only when the product turns itself off for a SECOND time. Never turn off the product manually during the update process. If you are unsure of how many times your unit powered off by itself wait 5 minutes before turning on the Blu-ray Player manually

You can also update software using the following methods. USB and CD/DVD are the same as using the 'By Internet menu'.

4-2-2 USB Upgrade

Please follow the below steps to download USB firmware update.

- 1) Visit www.samsung.com/bluraysupport
- 2) [Left Click] SUPPORT on the left hand side of the screen
- 3) [Left Click] the white box in the center of the screen to "Search Product Support"
- 4) Type in the full model code (ex: BD-C5300) and press [Enter]
- 5) A list of model codes may appear, [Left Click] the model that is correct.
- 6) [Left Click] the FIRMWARE tab in the center of screen
- 7) [Left Click] the "ZIP" icon on the right of USB upgrade file.
- 8) [Left Click] SAVE
- 9) Locate your USB mass storage device in the SAVE IN window and then click SAVE, wait for the f/w download to complete before proceeding.
- 10) Go to "My Computer" and open your USB drive
- 11) [Right Click] on Firmware File (ver_date_model) and then [Left Click] Unzip to Here
- 12) Insert the USB stick into the Blu-ray player while it is ON
- 13) Press [Enter] on the OK to upgrade firmware
- 14) The power will turn off and on at the beginning of the firmware upgrade.
- 15) The upgrade progress bar will appear. When the update is completed the Blu-ray Player will turn off automatically
- 16) It is now safe to power on your Blu-ray Player

4-2-3 CD/DVD Upgrade

Please follow the below steps to download the CD firmware update.

- 1) Follow steps 1) - 6) above under USB update
- 7) [Left Click] on the "ZIP" icon to the right of UPGRADE FILE CD or UPGRADE FILE USB
- 8) [Left Click] SAVE and select the location on your desktop to save the file
- 9) Locate the saved file, [Right Click] and then select UNZIP HERE.

[Note]

- If you downloaded the USB firmware you will have a .RUF file, if you downloaded the CD firmware you will have an .iso file.
- 10) If you have a .RUF file you must burn a DATA DISC with your CD burning software and if you have a .ISO file you must burn an IMAGE DISC with your CD burning software
 - 11) After disc is finalized insert it in the Blu-ray Player and follow steps 13)-16) above

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