

Clarion

Service Manual



SPECIFICATIONS

FM Tuner

Frequency Range: 87.9 MHz to 107.9 MHz
Usable Sensitivity: 8 dBμV
50dB Quieting Sensitivity: 14 dBμV
Alternate Channel Selectivity: 70 dB
Stereo Separation: 25 dB (1 kHz)
Frequency Response: 30 Hz to 15kHz

AM Tuner

Frequency Range: 530 kHz to 1710 kHz
Usable Sensitivity: 28 dBμV

DVD Player System

Digital Versatile Disc System with CDDA capable
Usable discs: DVD video disc, Compact disc
Frequency Response: 20 Hz to 20 kHz
Sound/Noise Ratio: 95 dB (1W Ref)
Dynamic Range: 95 dB (1 kHz)
Distortion: 0.05%
Video system: NTSC

Navigation

Memory: 4GB Flash Memory
Upgrade Platform: USB
TTS (Text to Speech): Street Announcements
Find Menu: Address, POI, History, Coordinates, Favorites, Plan on map
POI: 12 million
Road Selection: Unpaved, Permit needed, Motor ways, Toll, Ferries, Border crossing, Carpool lanes

LCD Monitor

Screen Size: 6.5" wide type
Pixels: 280,800
Resolution: 1220x234 (RGB)

Audio/Video Input

Audio input voltage: 300 μVrms (low)
Audio input voltage: 600 μVrms (med)
Audio input voltage: 950 μVrms (high)
Video input voltage: 1.0Vp-p @75Ω

Audio/Video output

Audio output impedance: 10kΩ
Video output voltage: 1.0Vp-p @75Ω

General

Power source voltage:
14.4 V DC (10.8 to 15.6 V allowable)
Ground: Negative
Current consumption: 4.0 A @1 W (57.6W @1W)
Auto Antenna Rated Current: 500 mA less
NX500 dimensions: 7" (178mm) width, 2" (50 mm) height, 7.5" (191.5mm) depth
NX500 weight: 3.5 kg
Remote Control dimensions: 2-1/8" (54mm) width, 9/16" (14mm) height, 4-13/16" (122 mm) depth
Remote Control weight: 50 grams (including battery)

Note:

- Specifications comply with JEITA Standards.
- Specifications and design are subject to change without notice for further improvement.

Power Output:

18W RMS x 4 Channels at 4Ω
and 1% THD+N

Signal to Noise Ratio:

85 dBA (reference: 1W into 4Ω)



FEATURES

- Double Din 6.5" Touch Panel Control
- DVD Video/CD-DA/MP3/WMA Playback Capability
- Built-In Navigation

- OEM Steering Wheel Remote Ready
- Compatible with Sirius Satellite Radio
- Built-In Bluetooth®
- Compatible with iPod®/ iPhone™ via USB
- HD Radio™ Ready

COMPONENTS

- 固定铁条-Fix bar-1pcs
- 螺钉-Screw-4pcs
- 螺钉-screw, M5, 0X5, 0-4pcs
- 双头螺栓-DOUBLE BOLT-1pcs
- 安装橡胶套-Fix rub knob-1pcs
- 装饰框-ring-1pcs
- 转接线-PUR WIRE-1pcs
- AV线组3-AV CABLE 3-1pcs
- AV线组2-AV CABLE 2-1pcs
- AV线组1-AV CABLE 1-1pcs
- SIRIUS WIRE-SIRIUS WIRE-1pcs

- 耳机线-EARPHONE CABLE-1pcs
- USB转接线-USB EXTENDING CABLE-1pcs
- HD音频线-HD RADIO CABLE-1pcs
- 麦克风线-MIC CABLE-1pcs
- 说明书-user manual-1pcs
- 保修卡-warranty card-1pcs
- AUX IN线-AUX IN cable-1pcs
- GPS天线-GPS antenna-1pcs
- 电源线-power cable-1pcs
- 遥控器-remote control (front) -1pcs
- 眼镜布-TS CLOTH-1pcs

■ TROUBLESHOOTING

GENERAL

Problem	Cause	Measure
Power does not turn on. (No sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage. If the fuse blows again, consult your store of purchase.
	Incorrect wiring.	Consult your store of purchase.
Nothing happens when buttons are pressed. Display is not accurate.	The microprocessor has malfunctioned due to noise, etc.	Turn off the power and open the operation panel. Press the reset button with a thin rod. Note: <i>When the Reset button is pressed, turn off the ACC power.</i> * When the Reset button is pressed, frequencies of radio stations, titles, etc. stored in memory are cleared."
The remote control unit does not work.	Direct rays of the sun fall on the light-receptive part of the remote control unit.	When direct rays of the sun fall on the light-receptive part of the remote control unit, it may not work.
	The batteries of the remote control unit are dead or there is no battery in the remote control unit.	Check the batteries of the remote control unit.

DVD PLAYER

Problem	Cause	Measure
Disc cannot be loaded.	Another disc is already loaded.	Eject the disc before loading the new one.
	There is a foreign matter already in place.	Eject the foreign matter forcibly.
Sound skips or is noisy.	Compact disc is dirty.	Clean the compact disc with a soft cloth.
	Compact disc is heavily scratched or warped.	Replace with a compact disc with no scratches.
Sound is bad directly after power is turned on.	Water droplets may form on the internal lens when the car is parked in a humid place.	Let dry for about 1 hour with the power on.
The image is not displayed.	The parking brake is not engaged.	Check that the parking brake is engaged.
Disc cannot play with the display "PARENTAL VIOLATION" shown.	Feature exceeds set parental level.	Release the view limitation or change the parental level. See the subsection "Setting up the parental level"

USB DEVICE

Problem	Cause	Measure
USB device cannot be inserted.	The USB device has been inserted with wrong direction.	Reversing the connection direction of the USB device, try it again.
	The USB connector is broken.	Replace with a new USB device.
USB device is not recognized.	The USB device is damaged.	Disconnect the USB device and reconnect. If the device is still not recognized, try replacing with a different USB device.
	Connectors are loose.	
No sound heard with the display "NO FILE" shown.	No MP3/WMA file is stored in the USB device.	Store these files properly in the USB device.
Sound skips or is noisy.	MP3/WMA files are not encoded properly.	Use MP3/WMA files encoded properly.
The iPod/iPhone's video image is disturbed.	The TV Signal setting of the iPod/iPhone is not set correctly.	Set the TV Signal setting (NTSC/PAL) of the iPod/iPhone correctly.

■ ERROR DISPLAY

If an error occurs, one of the following displays is displayed.
Take the measures described below to solve the problem.

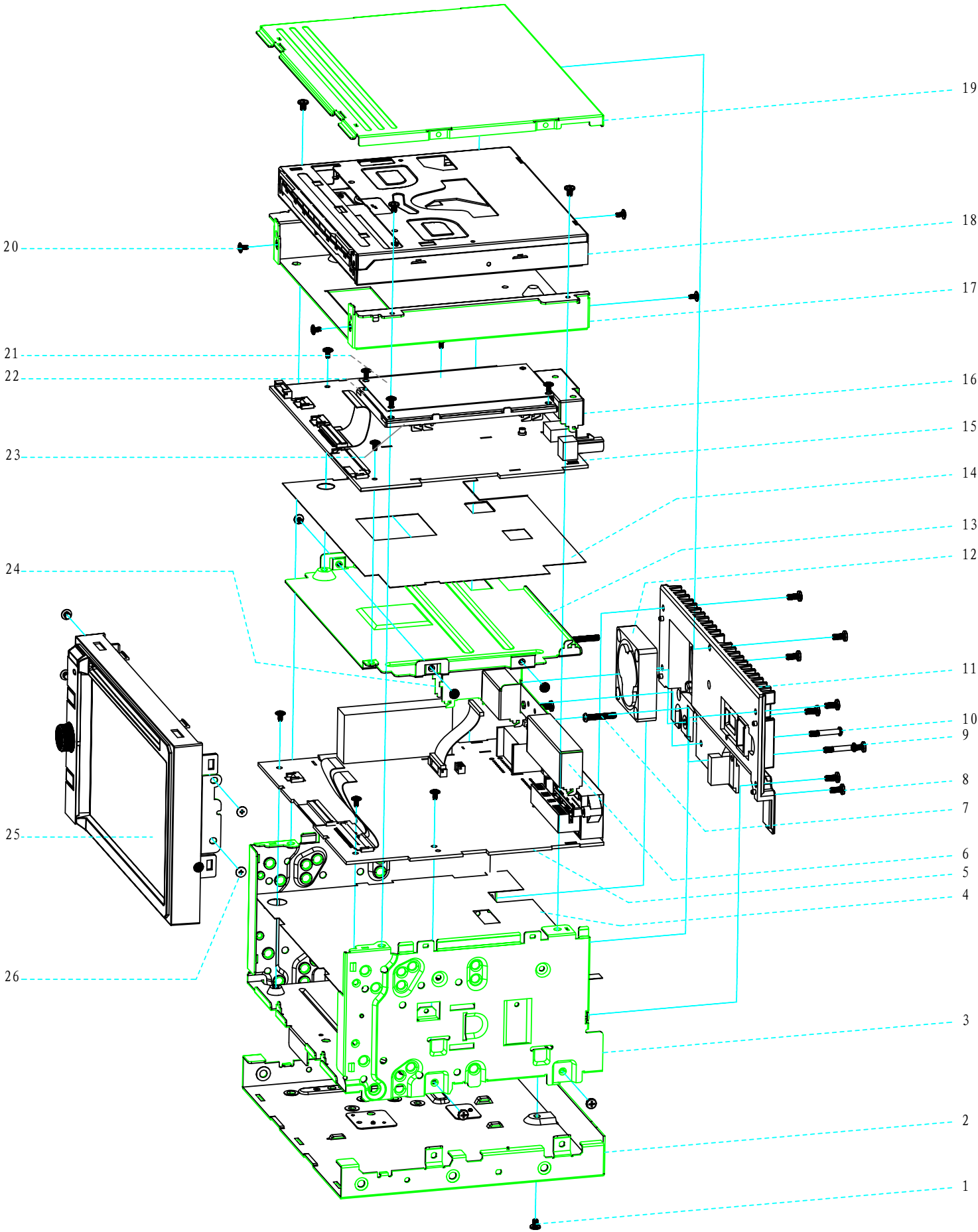
DVD PLAYER

Display	Cause	Measure
BAD DISC	A disc is caught inside the CD deck and is not ejected.	This is a failure of DVD deck's mechanism and consult your store of purchase.
BAD DISC	A disc cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
BAD DISC	A disc is loaded upside- down inside the DVD deck and does not play.	Eject the disc then reload it properly.
PARENTAL VIOLATION	Parental level error	Set the correct Parental level.
WRONG REGION	Region code error	Eject the disc, and replace correct region code disc.

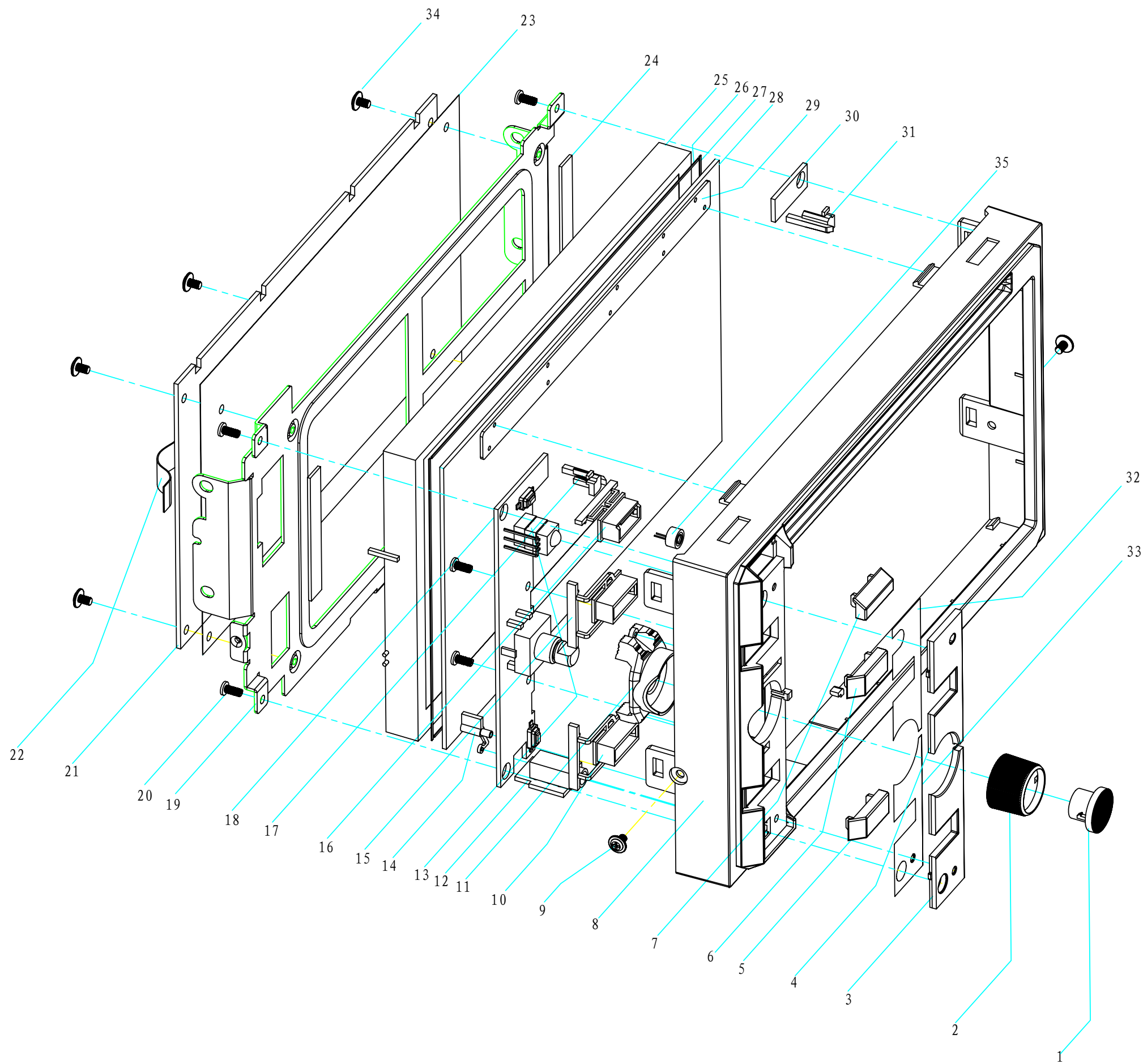
If an error display other than the ones described above appears, press the Reset button.
If the problem persists, turn off the power and consult your store of purchase.

* When the Reset button is pressed, frequencies of radio stations, titles, etc. stored in memory are cleared.

EXPLODED VIEW



26	1-2701-6013-00-01	螺钉	SCREW	4	M3. 0X2. 5
25	B-9820-1005-00-00	面板组件	PANEL_ASSM	1	
24	B-9820-1001-00-00	收音屏蔽罩	SHIELD-COVER	1	
23	1-9680-2307-01-00	导航板支架	NAVI-PCB-BKT	1	
22	3-B383-0557-R4-00	导航板	NAVI-PCB	1	
21	1-9850-2214-00-00	导热片	GUIDE-HEAT-PLATE	1	
20	1-2651-6009-00-04	螺钉	SCREW	18	M2. 0X3. 8
19	1-9820-2505-00-00	顶盖	TOP-COVER	1	
18	C-5175-000A-00-00	170机芯	CORE	1	
17	1-9820-2502-00-00	机心支架	CORE-BKT	1	
16	1-9820-2504-00-00	插座支架	SOCKET-BKT	1	
15	3-B345-0562-R5-00	主板	MAIN-PCB	1	
14	1-9820-8022-00-00	绝缘片	SHEET-PC_4	1	
13	1-9820-2506-00-00	隔板	MIDDLE-BKT	1	
12	3-MF40-J12A-00-00	风扇	FAN	1	
11	1-9820-7501-MX-00	散热片	HEAT-SINK	1	
10	1-2701-6019-00-01	螺钉	SCREW	2	M2. 6X15
9	1-2652-6001-00-00	螺钉	SCREW	2	M2. 6X6, 自攻
8	1-2651-6010-01-01	螺钉	SREW	6	M2. 6X6
7	1-2620-6001-00-00	螺钉	SREW	2	M3X8
6	1-9820-2503-00-00	功放支架	AMP-BKT	1	
5	3-B345-0793-R2-00	功放板	AMP-PCB	1	
4	1-2820-8005-00-00	绝缘片	SHEET-PC_4	1	
3	1-9820-2507-00-00	主机壳	MAIN-CHASSIC	1	
2	1-2820-2006-00-00	底盘支架	BOTTOM-BKT	1	
1	1-2701-6012-00-04	螺钉	SCREW	9	M2. 6X3. 5
No.	Part No.	零件名称	Name	Qty	Remark

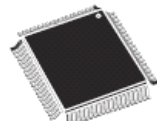
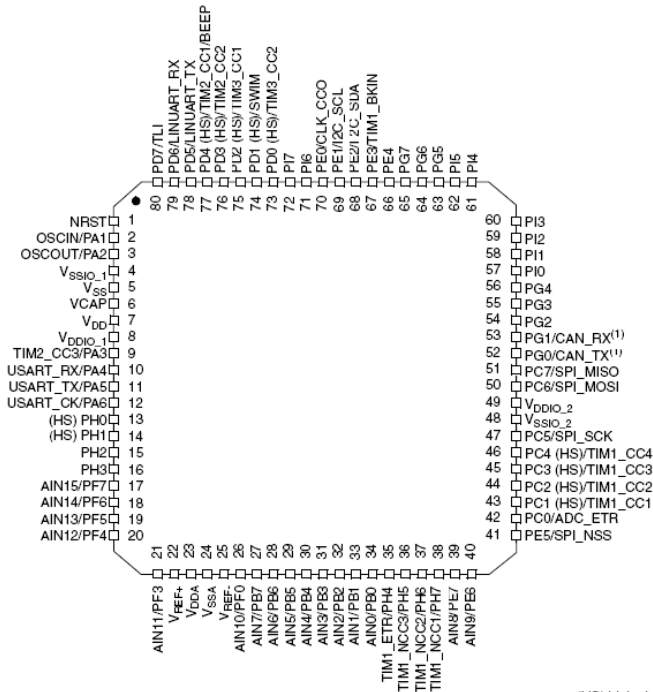


35	3-M103-4015-00-00	MIC组件	MIC_ASSM	1	
34	1-2651-6007-00-02	螺钉	SCREW	4	
33	1-9820-8025-00-00	双面胶下	Double-face-glue	1	
32	1-9820-8024-00-00	双面胶上	Double-face-glue	1	
31	1-9820-3507-00-00	左碟口灯	DISK-LIGHT	1	
30	3-B324-0565-R5-00	碟口灯板	SLOT-LED-PCB	1	
29	1-9820-8028-00-00	防尘帘	PROOF-DUST	1	
28	3-PIT0-0867-00-00	触摸屏	TOUCH-SCREEN	1	
27	1-2820-8004-00-00	屏垫片2	SCREEN-CUSHION_2	2	
26	1-2820-8003-00-00	屏垫片1	SCREEN-CUSHION-1	2	
25	3-PTPW-065X-SA-00	显示屏	SCREEN	1	
24	1-2942-8007-00-00	EVA垫片	EVA-CUSHION	2	
23	1-9820-8012-00-00	TFT绝缘片	Insulation-sheet	1	
22	3-WF0X-0021-20-00	键板FFC排线	FFC	1	
21	3-B343-0669-R5-00	TFT板	TFT-PCB	1	
20	1-2942-6003-01-00	螺钉	SCREW	5	M2. 0X4. 4
19	1-9820-2501-00-00	TFT支架	TFT-BKT	1	
18	3-B324-0794-R2-00	键板	KEY-PCB	1	
17	1-9820-3516-00-00	右碟口灯	DISK-LIGHT	1	
16	1-9820-3508-00-00	按键臂上	KEY_ARM-UPPER	1	
15	1-9820-3509-00-00	按键臂中	KEY_ARM-MID	1	
14	1-9820-3513-00-00	复位键	RESET-KEY	1	
13	1-2680-8002-00-00	遥控垫片	REMOTE-MAT	2	
12	3-B324-0565-R5-00	AUX_IN板	AUX_IN-PCB	1	
11	1-9820-3506-00-00	导光块	LIGHT-GUIDE	1	
10	1-9820-3510-00-00	按键臂下	KEY_ARM-DOWN	1	
9	1-2651-6009-00-04	螺钉	SCREW	2	M2. 0X3. 8
8	1-9820-3501-00-02	面板	PANEL	1	
7	1-9820-3519-00-01	出碟键	KNOB-EJECT	1	
6	1-9820-3520-00-01	导航键	KNOB_NAV	1	
5	1-9820-3520-00-02	源切换键	KNOB_SOURCE	1	
4	1-9820-3045-00-01	装饰镜片下	DEC_MIRRIOR_DOWN	1	
3	1-9820-3044-00-01	装饰镜片上	DEC_MIRRIOR_UPPER	1	
2	1-9820-3505-00-02	旋钮	KNOB	1	
1	1-9820-3514-00-00	旋钮盖	KNOB_COVER	1	
No.	Part No.	零件名称	Name	Qty	Remark

EXPLANATION OF IC

STM8AF51AA

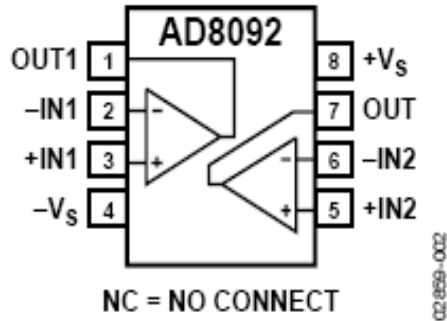
Automotive 8-bit MCU, with up to 128 Kbytes Flash, EEPROM, 10-bit ADC, timers, LIN, CAN, USART, SPI, I2C, 3 V to 5.5 V



(HS) high sink capability LQFP80 14x14

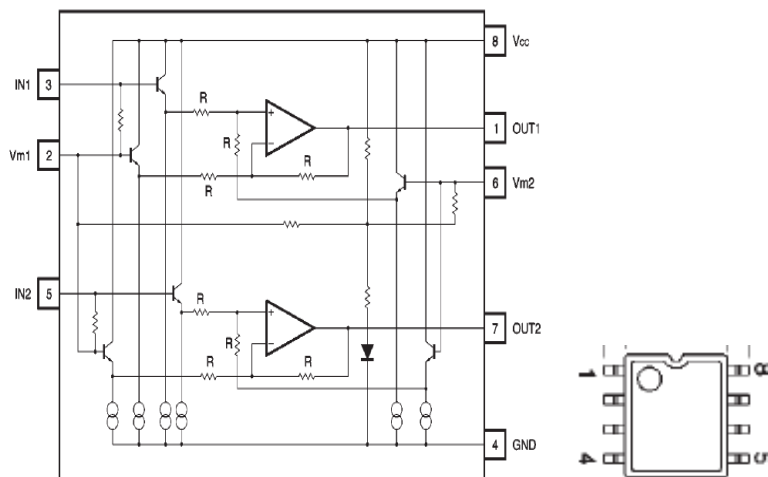
AD8092

Low Cost, High Speed Rail-to-Rail Amplifiers



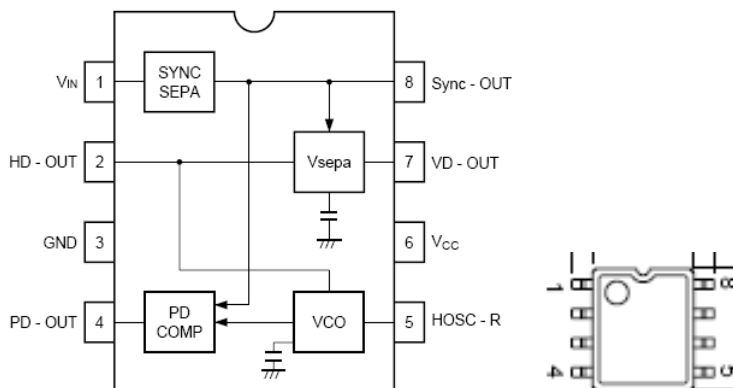
BA3121F

Ground isolation amplifier



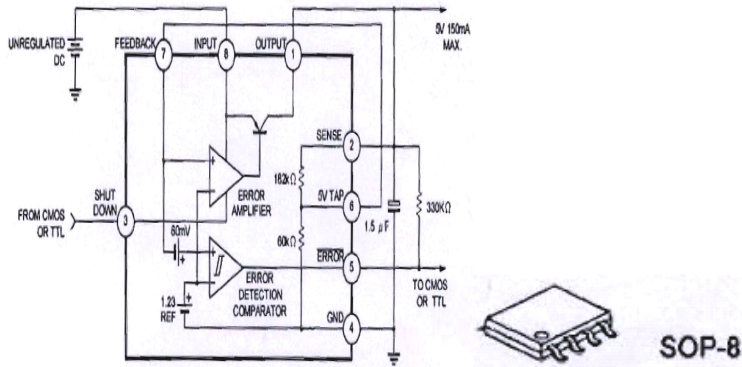
BA7071F

SYNC separator IC with AFC



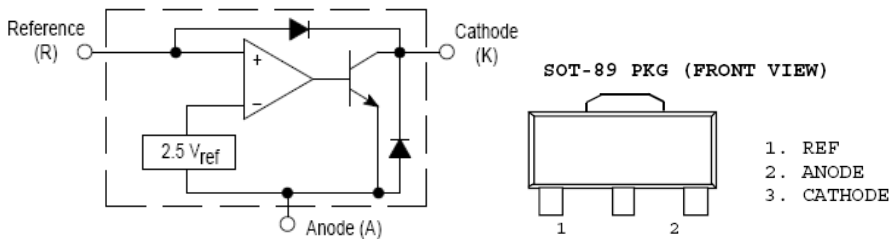
LP2950

100mA LOW-DROPOUT VOLTAGE REGULATOR



TL431

PROGRAMMABLE PRECISION REFERENCES



74HC4052

Dual 4-channel analog multiplexer, demultiplexer

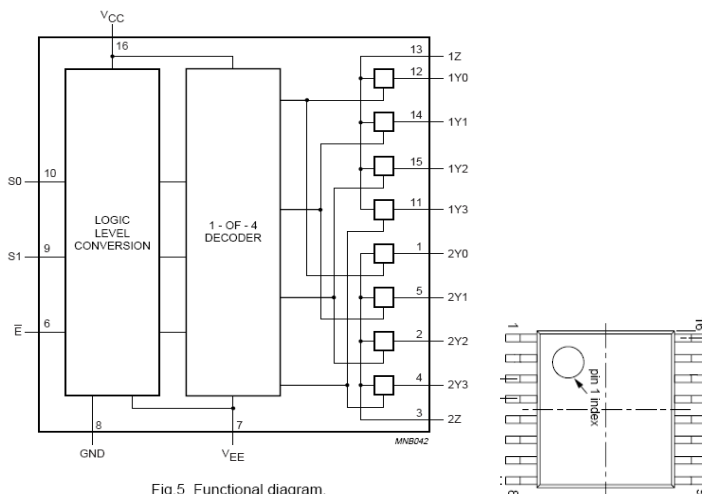
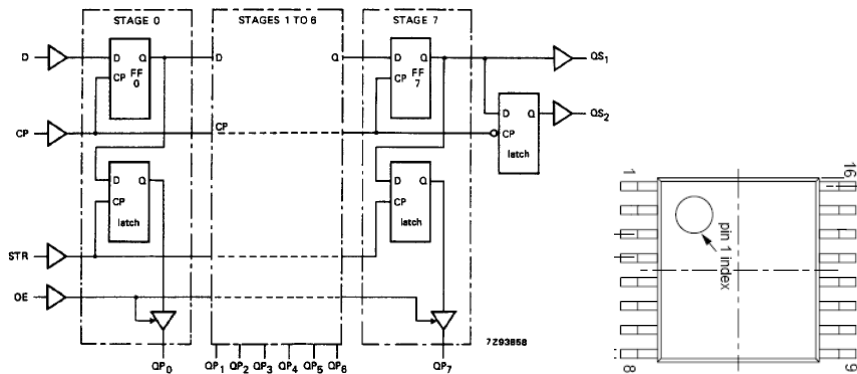


Fig.5 Functional diagram.

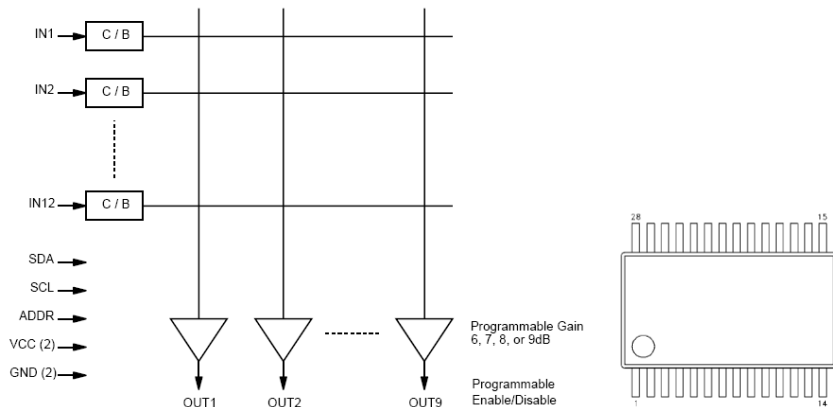
74HC4094

8-stage shift-and-store bus register



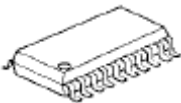
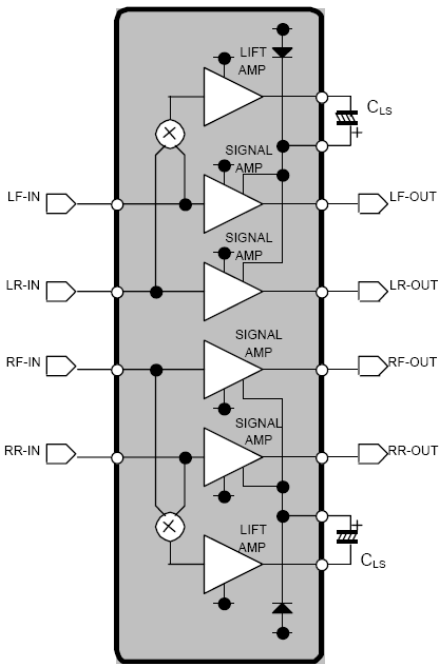
FMS6501

12 Input / 9 Output Video Switch Matrix with Input Clamp, Input Bias Circuitry, and Output Drivers



NJM2792

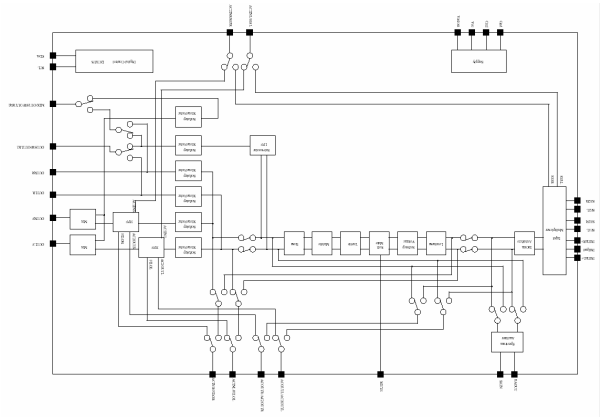
Quad Boost Amplifier



NJM2792V

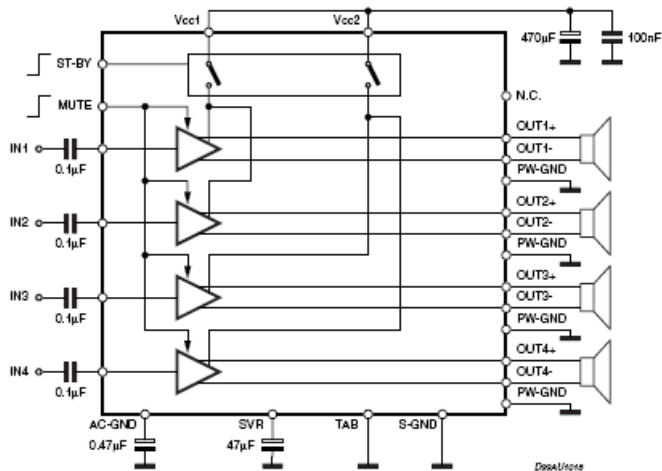
TDA7419

3 BAND CAR AUDIO PROCESSOR



TDA7388

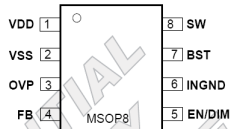
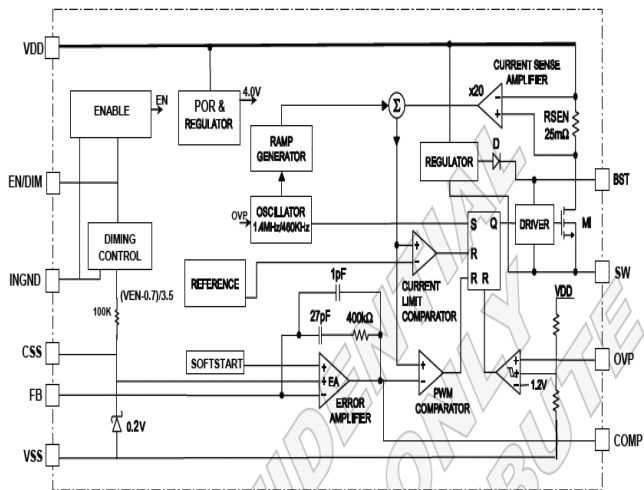
4 X 41W QUAD BRIDGE CAR RADIO AMPLIFIER



Flexiwatt25

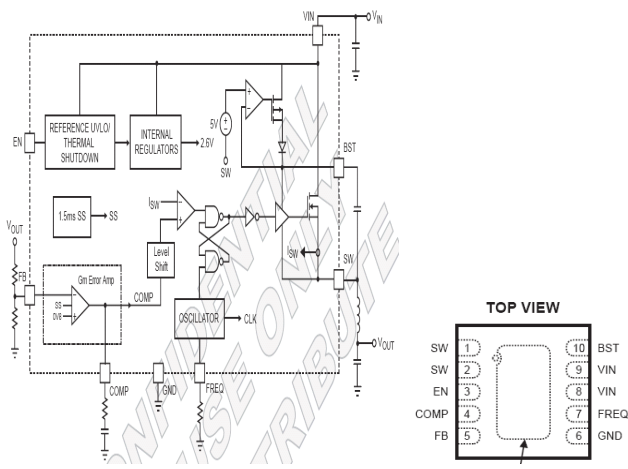
MP2481

1.2A, 36V, 1.4MHz White LED Driver



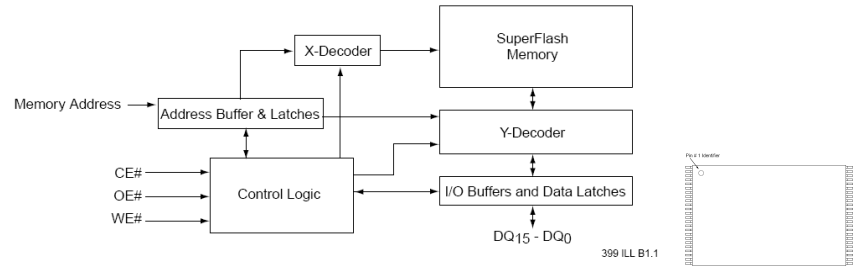
MP4461

3.5A, 4MHz, 36V Step-Down Converter



SST39VF1601

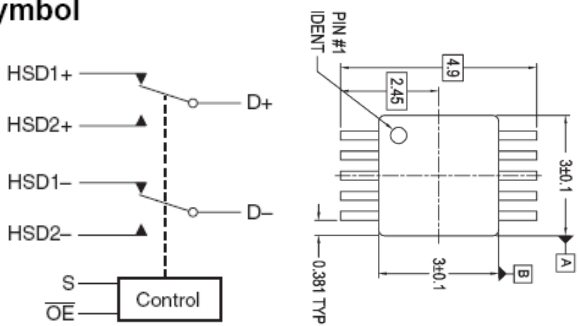
16 Mbit (x16) Multi-Purpose Flash



FSUSB30

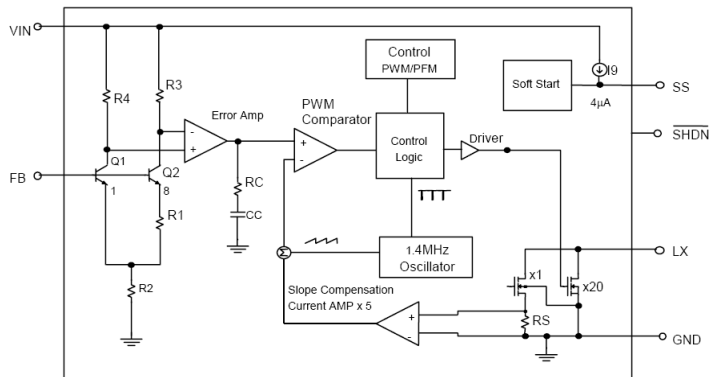
Low-Power 2-Port Hi-Speed USB 2.0 (480Mbps) Switch

Analog Symbol



AIC1896

1. 4MHz Thin Package Current-Mode Step-Up DC/DC Converter



SOT-23-6 / TSOT-23-6

FRONT VIEW

1: LX

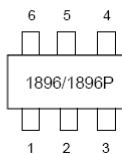
2: GND

3: FB

4: SHDN

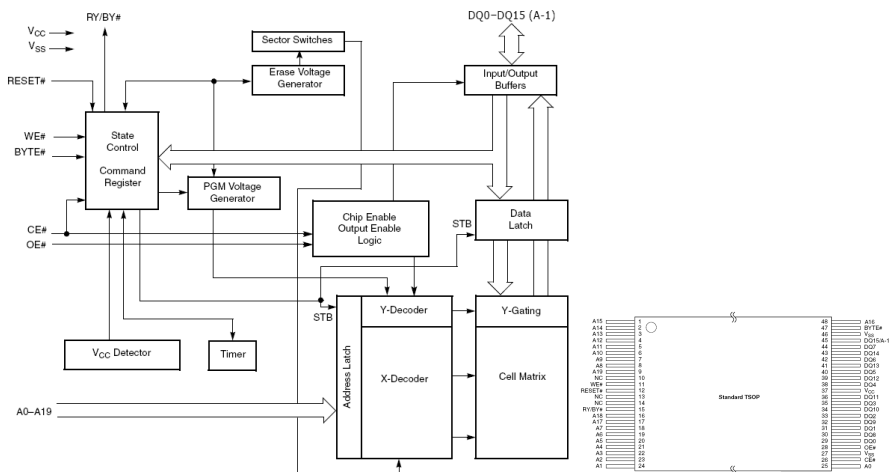
5: SS

6: IN



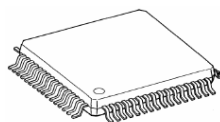
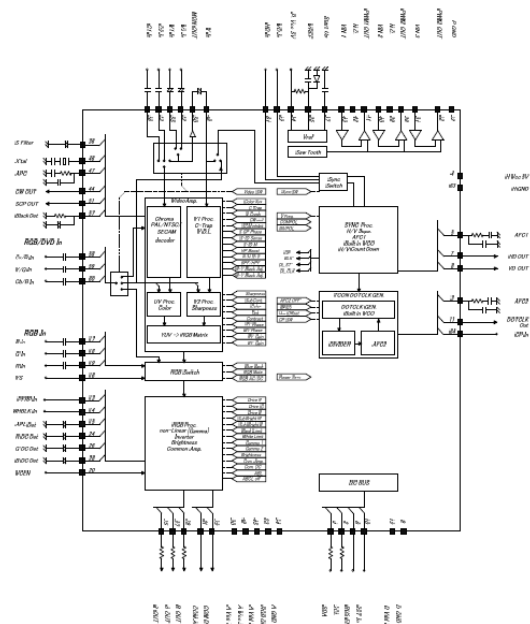
S29AL016D

16 Megabit (2 M x 8-Bit/1 M x 16-Bit) , CMOS 3.0 Volt-only Boot Sector Flash Memory



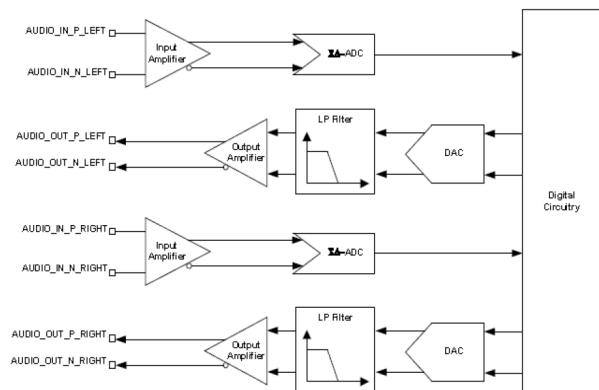
TB1318FG

Video/RGB processor and DCDC-converters for Analog LCD



LQFP64- P-1010-0.50A

NF2307



ELECTRICAL PART LIST

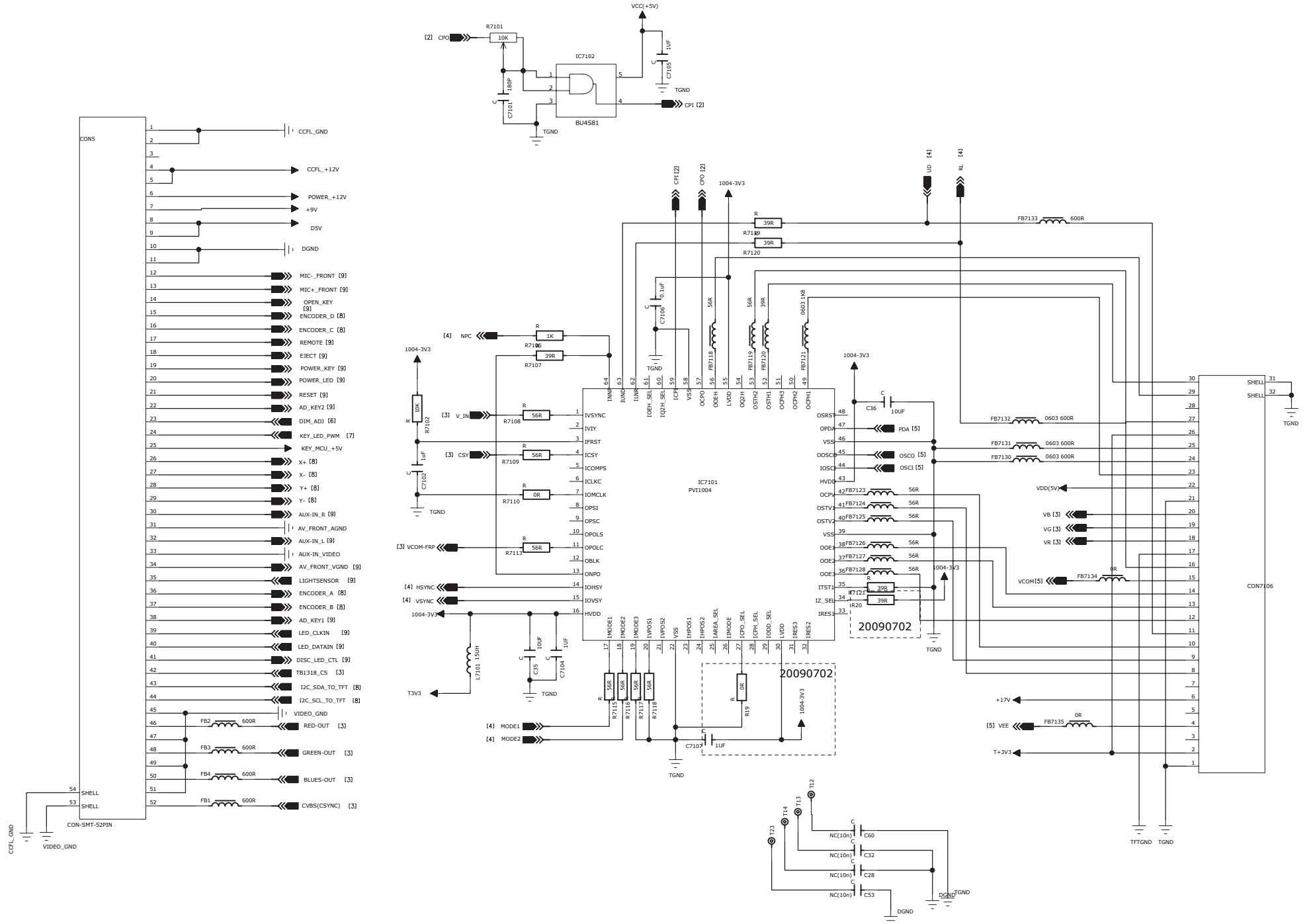
NO.	PART NO.	零件名称	NAME	REFERENCE	QTY
1	3-CC35-0101-30-0S	贴片电容	CHIP CAP	C102 C107 C110 C56 C57	5
2	3-CC35-0102-4X-0S	贴片电容	CHIP CAP	C101 C104 C111 C220 C221 TC207	6
3	3-CC35-0103-4X-0S	贴片电容	CHIP CAP	BC6 BC201 BC202 BC203 BC204 BC205 BC206 BC207 BC208 BC209 BC210 BC211 BC212 BC213 BC214 BC215 BC216 BC217 BC301 BC302 BC303 BC304 BC305 BC306 BC307 C5 C31 C175 C188 C230 C231 C281 C388 C422 C432 C433 TC48 TC205 TC307 TC211	40
4	3-CC35-0104-4X-0S	贴片电容	CHIP CAP	BC1 BC2 BC3 BC4 BC218 C7 C9 C11 C12 C16 C17 C21 C32 C38 C43 C90 C105 C112 C114 C115 C116 C138 C139 C152 C153 C158 C160 C161 C162 C163 C164 C165 C166 C167 C168 C169 C183 C184 C189 C191 C218 C222 C275 C276 C277 C278 C279 C280 C401 C427 C434 C436 C438 C442 C474 C503 C504 C589 C651 TC28 TC49 TC304 TC305 TC27	64
5	3-CC35-0110-30-0S	贴片电容	CHIP CAP	C210 C211 C212 C213	4
6	3-CC35-0150-30-0S	贴片电容	CHIP CAP	C77	1
7	3-CC35-0151-30-0S	贴片电容	CHIP CAP	C13 C206 C207 C208 C209	5
8	3-CC35-0161-30-0S	贴片电容	CHIP CAP	C214 C215 C216 C217	4
9	3-CC35-0220-30-0S	贴片电容	CHIP CAP	BC230 C225 C226 C227 C228 C229	6
10	3-CC35-0223-4X-0S	贴片电容	CHIP CAP	C103	1
11	3-CC35-0270-30-0S	贴片电容	CHIP CAP	C204 C205	2
12	3-CC35-0273-4X-0S	贴片电容	CHIP CAP	C117	1
13	3-CC35-0330-30-0S	贴片电容	CHIP CAP	C23 C24 TC219	3
14	3-CC35-0471-30-0S	贴片电容	CHIP CAP	C87 C89 C223 C224	4
15	3-CC38-0105-4X-0S	贴片电容	CHIP CAP	C1 C14 C37 C44 C61 C92 C159 C197 C435 C7421 C7422 C7423 C7424 C7425 C7426	15
16	3-CC43-0106-6Y-0S	贴片电容	CHIP CAP	C18 C652 C4 C15 C437 C439 C441 C7427	8
17	3-CC52-0226-44-0S	贴片电容	CHIP CAP	BC5 C25 C182 C198 C199	5
18	3-CC57-04U7-5X-0S	贴片瓷片电容	Chip-Cap	C185 C186	2
19	3-CE32-0107-52-MS	贴片铝电解	SMDE-CAP	C174 TC31 TC43 TC87 TC204 TC206 TC208 TC210 TC306	9
20	3-CES2-0108-52-RS	贴片铝电解	SMT-E-CAP	TC26	1
21	3-CES2-0227-52-0S	贴片铝电解	SMT E-CAP	TC8 TC29 TC6 TC9 TC11 TC12 TC13 TC14 TC33 TC38 TC47 TC76 TC102 TC201	14
22	3-CES5-0107-52-0S	贴片铝电解	SMT E-CAP	TC5 TC2 TC4	3
23	3-CES5-0108-52-0N	铝电解电容	E-CAP	TC24	1
24	3-CES5-0476-52-0S	贴片铝电解	SMT E-CAP	TC99 TC100 TC101	3
25	3-Z800-0LEA-5S-00	GPS模块	GPS MODEL	IC22	1
26	3-CTB2-0476-54-0S	贴片钽电容	CHIP TAN CAP	C113 TC1 TC15 TC71 TC22 TC555 TC556	7

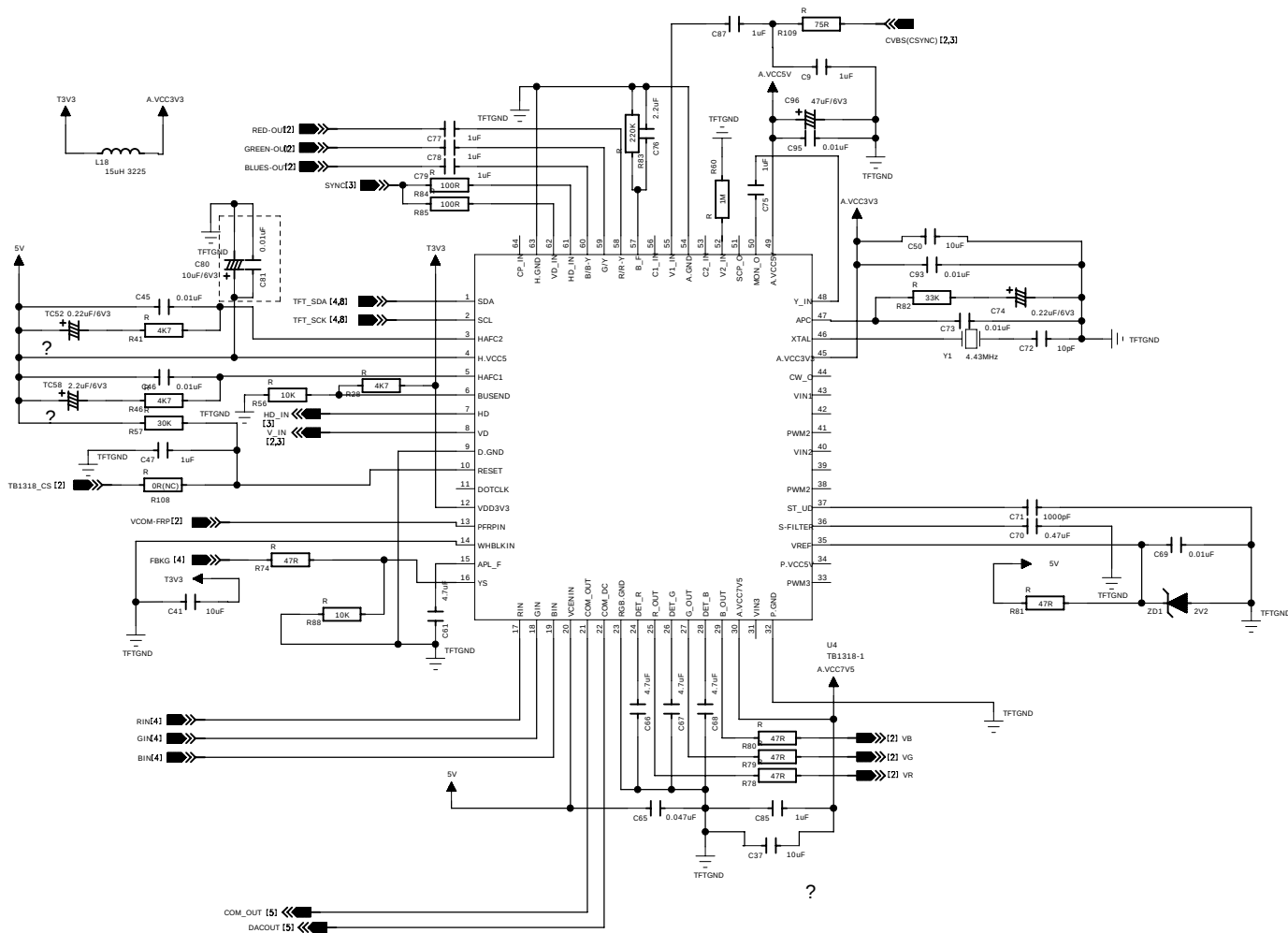
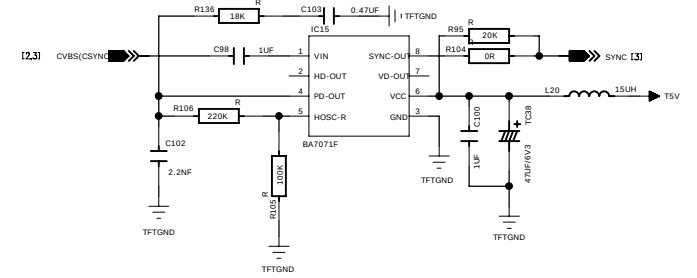
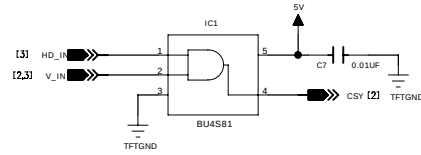
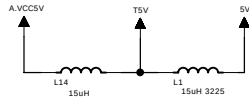
NO.	PART NO.	零件名称	NAME	REFERENCE	QTY
27	3-CTB5-0106-54-0S	贴片钽电容	CHIP TAN CAP	TC23	1
28	3-CTC2-0107-54-0S	贴片钽电容	CHIP TAN CAP	TC10	1
29	3-DKA0-4148-00-0S	开关二极管	SW DIODE	D7 D10 D11 D31 D32 D33 D38 D39 D40	9
30	3-DRB0-4001-00-0S	整流管	REC DIODE	D46	1
31	3-DRB0-4004-00-0S	整流管	REC DIODE	D1 D2	2
32	3-DRX0-SK34-00-0S	肖特基管	SOCK. DIODE	D9	1
33	3-DZA3-0012-00-0S	稳压管	ZENER	ZD40	1
34	3-J102-0125-07-30	插座	SOCKET	CON2	1
35	3-J115-0125-07-30	插座	SOCKET	CON1	1
36	3-J180-00R8-08-20	板对板插座(母座)	SOCKET	CON10	1
37	3-J330-SMBA-08-10	FAKRA板端连接器	FAKRA-COUECTOR	ANT2	1
38	3-JF32-00R5-02-31	插座	SOCKET	CON6 CON7	2
39	3-JF52-00R5-02-30	FFC插座	FFC CON.	J403	1
40	3-JU04-F090-07-10	USB插座	0 CON16		1
41	3-L25X-0100-K0-0S	贴片电感	CHIP INDUCTANCE	L51	1
42	3-L25X-01L1-K0-0S	贴片电感	CHIP INDUCTANCE	L201 L202 L203 L204	4
43	3-L4S0-0101-CD-43	贴片功率电感	POWER INDUCTANCE	L1	1
44	3-L4S0-0101-CD-54	贴片功率电感	POWER INDUCTANCE	L10	1
45	3-L4S0-0150-H1-29	贴片功率电感	CHIP INDUCTANCE	L8	1
46	3-L7XX-1420-EE-0S	共模抑制线圈	CMRR COIL	ACCOM1	1
47	3-L8SX-0100-K0-0S	贴片线绕电感	WIRE WIND IND.	L5 L7403	2
48	3-L8SX-0101-K0-0S	贴片线绕电感	WIRE WIND IND.	L3 L11 L18	3
49	3-L8SX-0470-K0-0S	贴片线绕电感	WIRE WIND IND.	L30 L31	2
50	3-L27X-0470-K0-0S	贴片电感	CHIP INDUCTANCE	FB212	1
51	3-LA30-182R-00-1S	贴片磁珠	CHIP BEAD	FB217	1
52	3-LA30-222R-00-1S	贴片磁珠	CHIP BEAD	FB206 FB207 FB208 FB209	4
53	3-LA30-252R-00-1S	贴片磁珠	CHIP BEAD	FB210 FB211 FB213 FB214	4
54	3-LA30-601R-G0-0S	贴片磁珠	CHIP BEAD	FB1 FB13 FB14 FB22 FB23 FB26 FB32 FB38 FB50 FB65 FB68 FB73 FB83 FB94 FB95 FB96 FB97 FB98 FB99 FB110 FB111 FB112 FB113 FB124 FB128 FB129 FB130 FB138 FB143 FB147 FB148 FB151 FB168 FB169 FB192 FB193 FB226 FB227 FB228 FB236 FB238 FB2 FB27 FB177 FB178 FB179 FB180	47
55	3-LA5X-026R-00-1S	贴片磁珠	CHIP BEAD	FB216 FB314	2
56	3-LA5X-601R-G0-0S	贴片磁珠	CHIP BEAD	FB85	1
57	3-LA6X-060R-00-0S	贴片磁珠	CHIP BEAD	CNH1 FB42 FB43 FB45 FB4 FB10 FB181 FB215 FB218 FB182	10
58	3-Q0BT-2907-0P-6S	三极管	IRAN	Q555 Q556	2
59	3-Q0KR-C402-0N-6S	三极管	TRAN	Q5 Q14 Q61 Q62	4

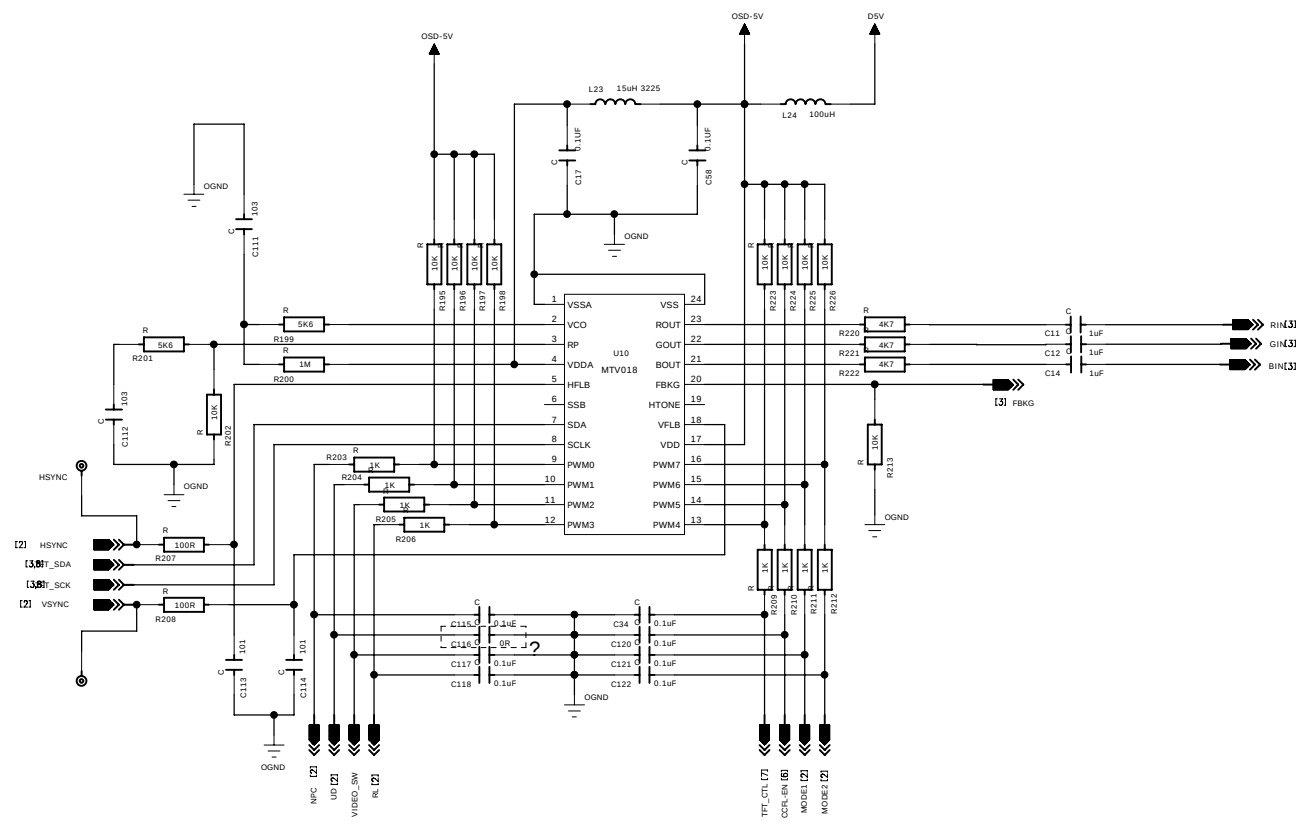
NO.	PART NO.	零件名称	NAME	REFERENCE	QTY
60	3-QKTD-1624-0N-6S	三极管	TRAN	Q60	1
61	3-QMBT-3904-0N-6S	三极管	TRAN	Q1 Q2 Q3 Q6 Q7 Q8 Q10 Q11 Q13 Q15 Q42 Q201 Q202	13
62	3-QMBT-3906-0P-6S	三极管	TRAN	Q4 Q70 Q71	3
63	3-RS31-0000-J0-0S	贴片电阻	CHIP RES	R11 R12 R19 R21 R35 R36 R41 R42 R50 R57 R64 R87 R99 R109 R110 R111 R112 R113 R114 R135 R138 R160 R162 R163 R236 R239 R283 R284 R298 R309 R334 R335 R363 R370 R372 R374 R508 R509 R559 R561 R578	41
64	3-RS31-001K-J0-0S	贴片电阻	CHIP RES	R5 R14 R18 R121 R122 R123 R134 R201 R353 R414 R415 R416 R462 R463 R464 R465 R466 R467 R539 R580	20
65	3-RS31-002K-J0-0S	贴片电阻	CHIP RES	R207 R208	2
66	3-RS31-010K-F0-0S	贴片电阻	CHIP RES	R76 R84	2
67	3-RS31-010K-J0-0S	贴片电阻	CHIP RES	R15 R108 R157 R158 R159 R172 R173 R210 R212 R213 R293 R311 R312 R316 R319 R577 R794 R988	18
68	3-RS31-010R-J0-0S	贴片电阻	CHIP RES	R142 R354	2
69	3-RS31-011K-J0-0S	贴片电阻	CHIP RES	R74 R75 R89	3
70	3-RS31-012K-J0-0S	贴片电阻	CHIP RES	R171	1
71	3-RS31-015K-J0-0S	贴片电阻	CHIP RES	BC9 BC10	2
72	3-RS31-020K-J0-0S	贴片电阻	CHIP RES	R7434 R7435 R7436	3
73	3-RS31-022K-J0-0S	贴片电阻	CHIP RES	R92	1
74	3-RS31-022R-J0-0S	贴片电阻	CHIP RES	R165 R168	2
75	3-RS31-024K-J0-0S	贴片电阻	CHIP RES	R198	1
76	3-RS31-027K-J0-0S	贴片电阻	CHIP RES	R71 R81	2
77	3-RS31-030K-J0-0S	贴片电阻	CHIP RES	R22	1
78	3-RS31-033K-J0-0S	贴片电阻	CHIP RES	R325	1
79	3-RS31-033R-F0-0S	贴片电阻	CHIP RES	R238	1
80	3-RS31-033R-J0-0S	贴片电阻	CHIP RES	R3 R4 R88 R234 R604	5
81	3-RS31-030K-F0-0S	贴片电阻	CHIP RES	R196	1
82	3-RS31-039K-F0-0S	贴片电阻	CHIP RES	R194	1
83	3-RS31-047K-J0-0S	贴片电阻	CHIP RES	R72 R117 R286 R995	4
84	3-RS31-04K7-J0-0S	贴片电阻	CHIP RES	R1 R6 R7 R8 R31 R33 R39 R45 R48 R51 R52 R53 R118 R125 R203 R204 R305 R538 R543	19
85	3-RS31-04R3-F0-0S	贴片电阻	CHIP RES	R144 R244	2
86	3-RS31-056R-J0-0S	贴片电阻	CHIP RES	R240	1
87	3-RS31-05K6-J0-0S	贴片电阻	CHIP RES	R513 R514 R557	3
88	3-RS31-06K8-J0-0S	贴片电阻	CHIP RES	R106	1
89	3-RS31-075R-F0-0S	贴片电阻	CHIP RES	R2 R214 R218 R219 R220 R221 R222 R223 R224 R225	10
90	3-RS31-091R-J0-0S	贴片电阻	CHIP RES	R247 R248	2

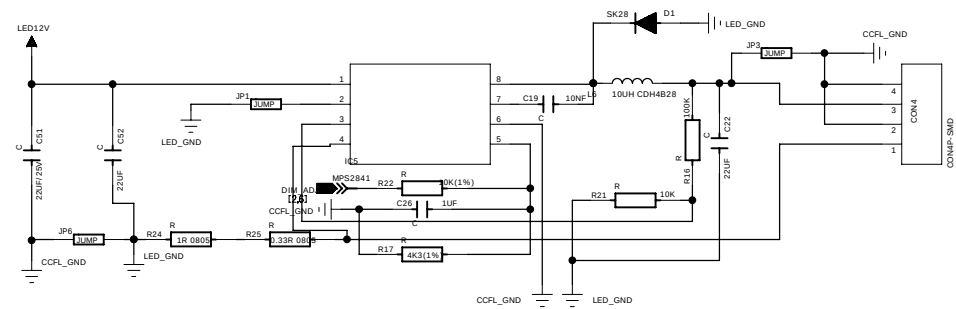
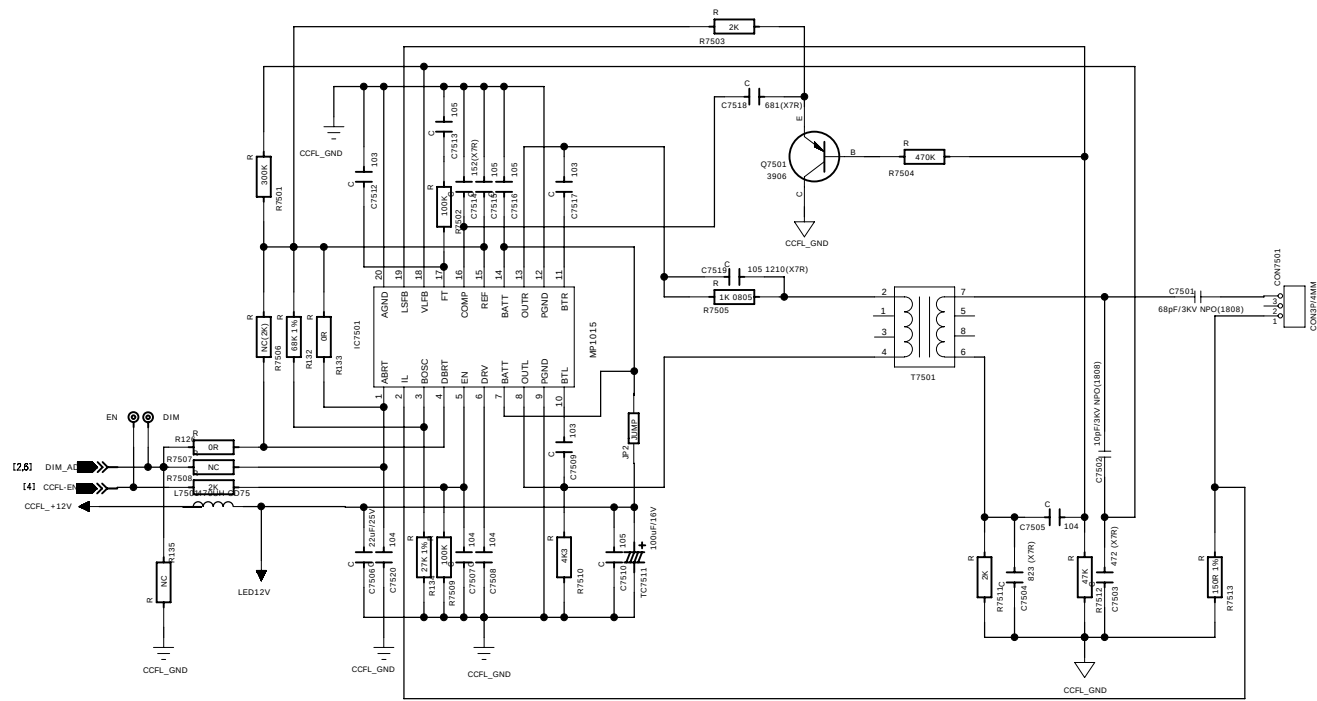
NO.	PART NO.	零件名称	NAME	REFERENCE	QTY
91	3-RS31-100K-F0-0S	贴片电阻	CHIP RES	R195	1
92	3-RS31-100K-J0-0S	贴片电阻	CHIP RES	R13 R91 R116 R164 R191	5
93	3-RS31-100R-J0-0S	贴片电阻	CHIP RES	R9 R10 R20 R736 R739 R869 R870 R987 R7433 D18	10
94	3-RS31-15K4-F0-0S	贴片电阻	CHIP RES	R228	1
95	3-RS31-160K-F0-0S	贴片电阻	CHIP RES	R197	1
96	3-RS31-220K-J0-0S	贴片电阻	CHIP RES	R215	1
97	3-RS31-220R-F0-0S	贴片电阻	CHIP RES	R242 R246	2
98	3-RS31-220R-J0-0S	贴片电阻	CHIP RES	R59 R90	2
99	3-RS31-392R-F0-0S	贴片电阻	CHIP RES	R226	1
100	3-RS31-470R-F0-0S	贴片电阻	CHIP RES	R79 R80	2
101	3-RS31-470R-J0-0S	贴片电阻	CHIP RES	R17 R7430 R7431 R7432	4
102	3-RS52-0000-J0-0S	贴片电阻	CHIP REC	FB315	1
103	3-RS52-001K-J0-0S	贴片电阻	CHIP RES	R43	1
104	3-RS52-001R-J0-0S	贴片电阻	CHIP RES	R77 R78 R82 R83 R85 R86	6
105	3-RS52-010R-J0-0S	贴片电阻	CHIP RES	R558	1
106	3-RS63-0000-J0-0S	贴片电阻	CHIP RES	L2 R520	2
107	3-RS63-04R7-J0-0S	贴片电阻	CHIP RES	R209	1
108	3-RS63-100R-J0-0S	贴片电阻	CHIP RES	R133 R654 R137 R199 R655	5
109	3-CC35-0080-80-0S	贴片电容	CHIP CAP	BC11	1
110	3-DZA3-04V7-00-0S	稳压管	ZENER	ZD1	1
111	3-U00D-5954-00-XS	驱动IC	DRIVER	U6	1
112	3-U00D-6849-00-XS	驱动IC	DRIVER	U7	1
113	3-U0BA-6289-FE-9S	马达驱动IC	IC	U401	1
114	3-U0BA-7603-F0-9S	视频开关	VIDEO SW	U7402	1
115	3-U0BU-9451-KV-XS	IPOD 音频处理IC	IPOD AUTHENTICATION	IC17	1
116	3-U0LD-1117-18-XS	稳压IC	Regulator	U19	1
117	3-USE8-1117-33-DS	稳压IC	REG	U16	1
118	3-U0LD-1117-33-XS	稳压IC	REG	U20	1
119	3-U0MP-4461-00-XS	DC/DC 电源IC	DC/DC REG	MPS1	1
120	3-U0RT-9193-15-DS	低功耗电源调整器	LDO	U18	1
121	3-U0WM-8501-00-XS	数模转换器	DAC	U11	1
122	3-U0WM-8522-00-AS	芯片	IC	IC1	1
123	3-U0XC-6401-37-0S	双输出电源IC	DUAL LDO	IC60	1
124	3-U57V-6416-20-RS	静态存储器	SDRAM	U3	1
125	3-UAT2-4C16-00-9S	程序存储器	EEPROM	U2	1
126	3-UFSU-SB30-00-XS	USB2.0开关芯片	USB 2.0 SWITCH	IC2 IC3 IC9	3
127	3-UMFI-2162-00-0S	认证芯片	AUTHENTICATION CHIP	IC48	1

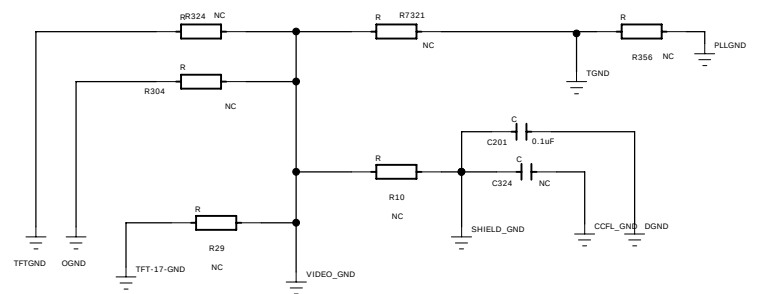
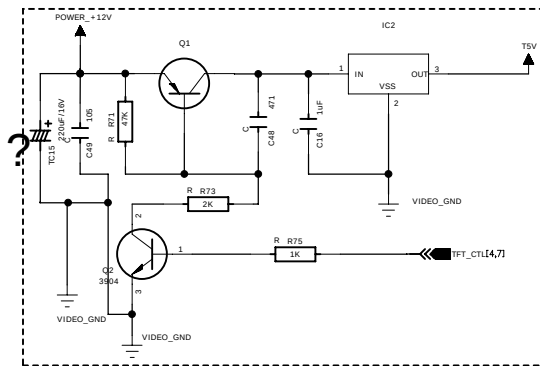
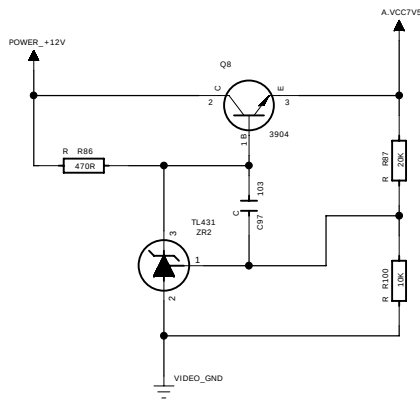
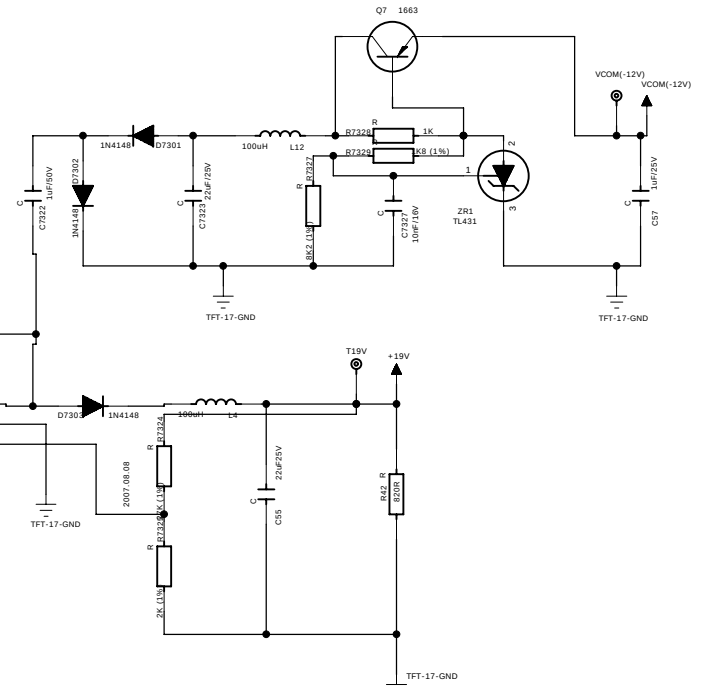
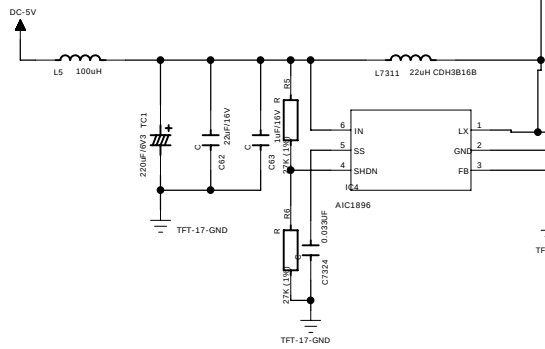
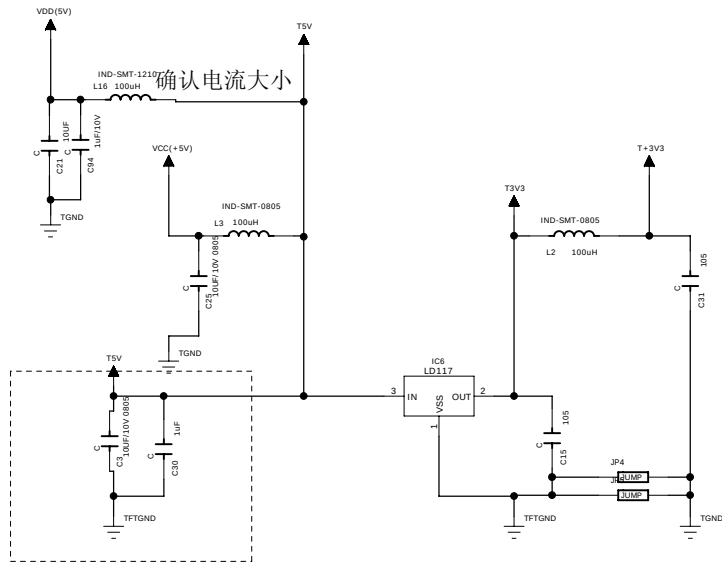
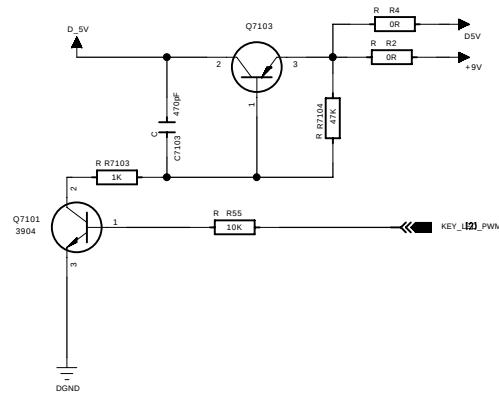
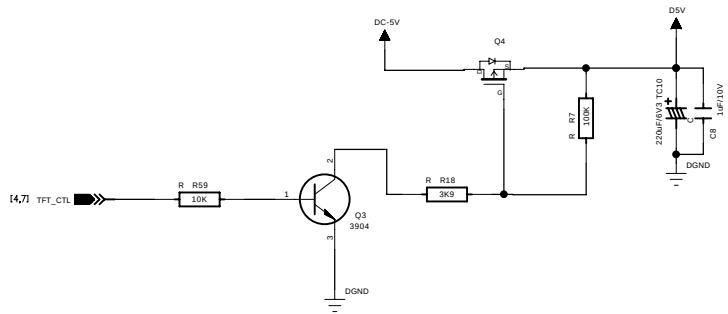
TFT PCB DIAGRAM

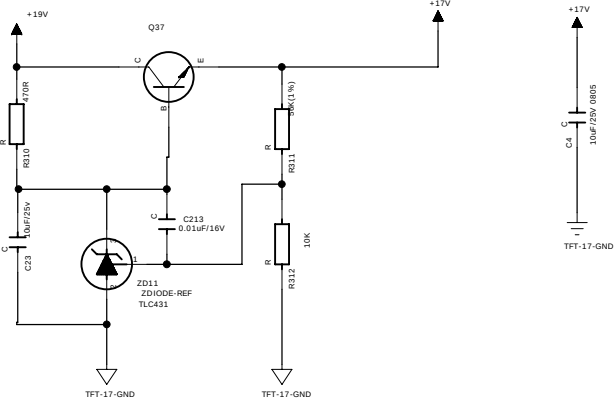
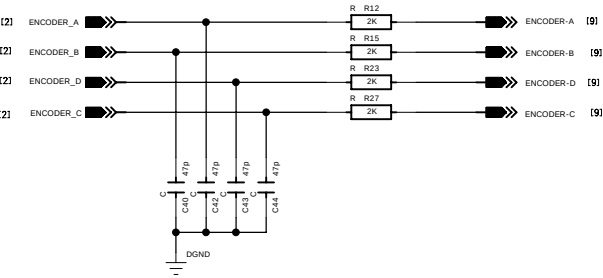
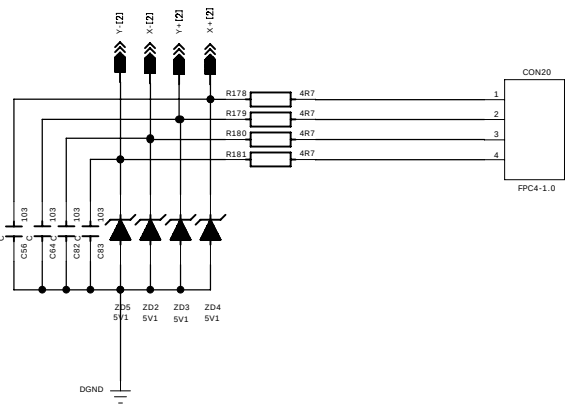
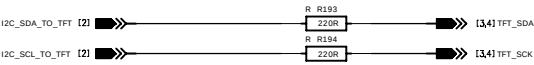


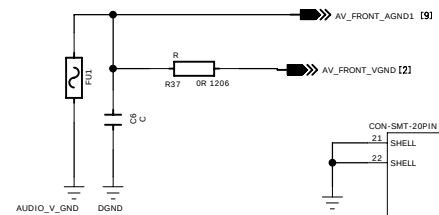
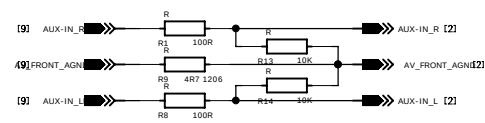
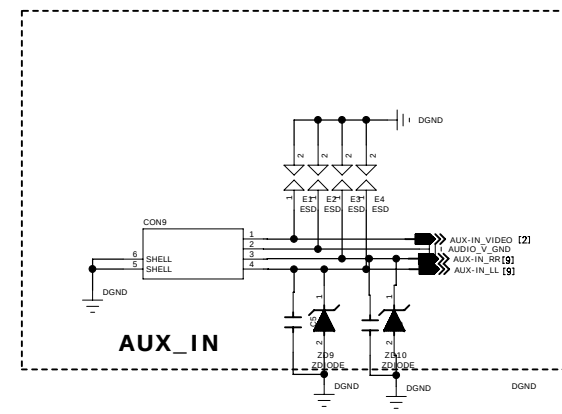
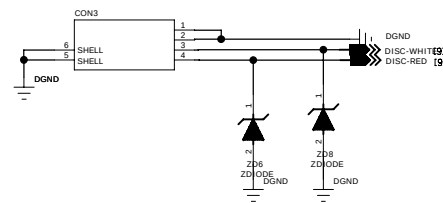
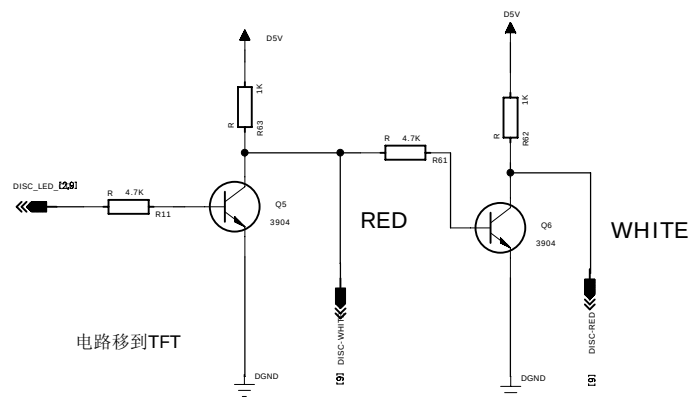




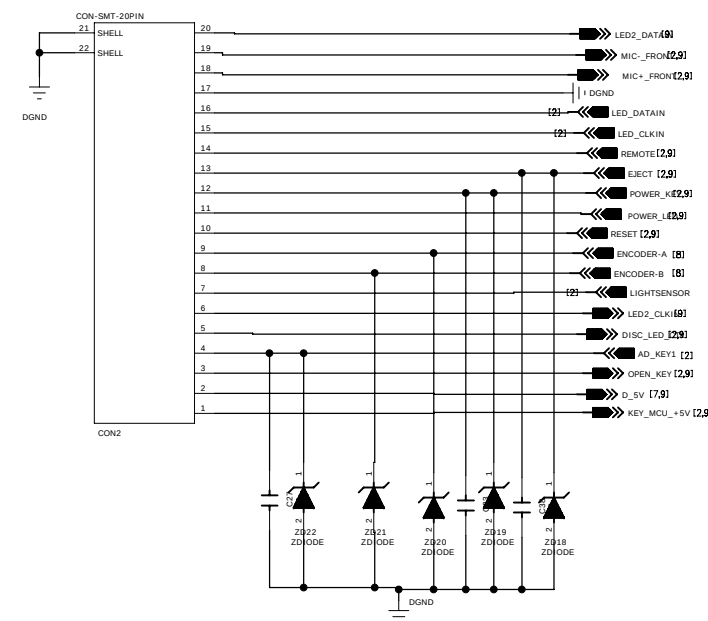
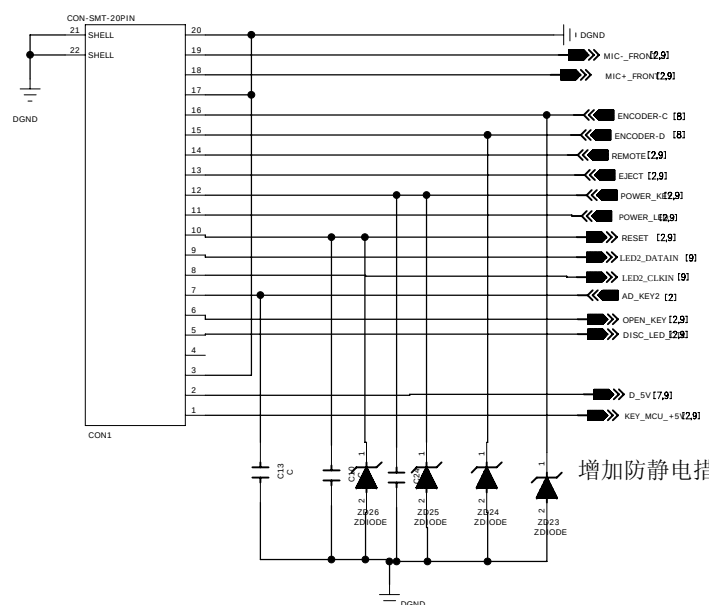








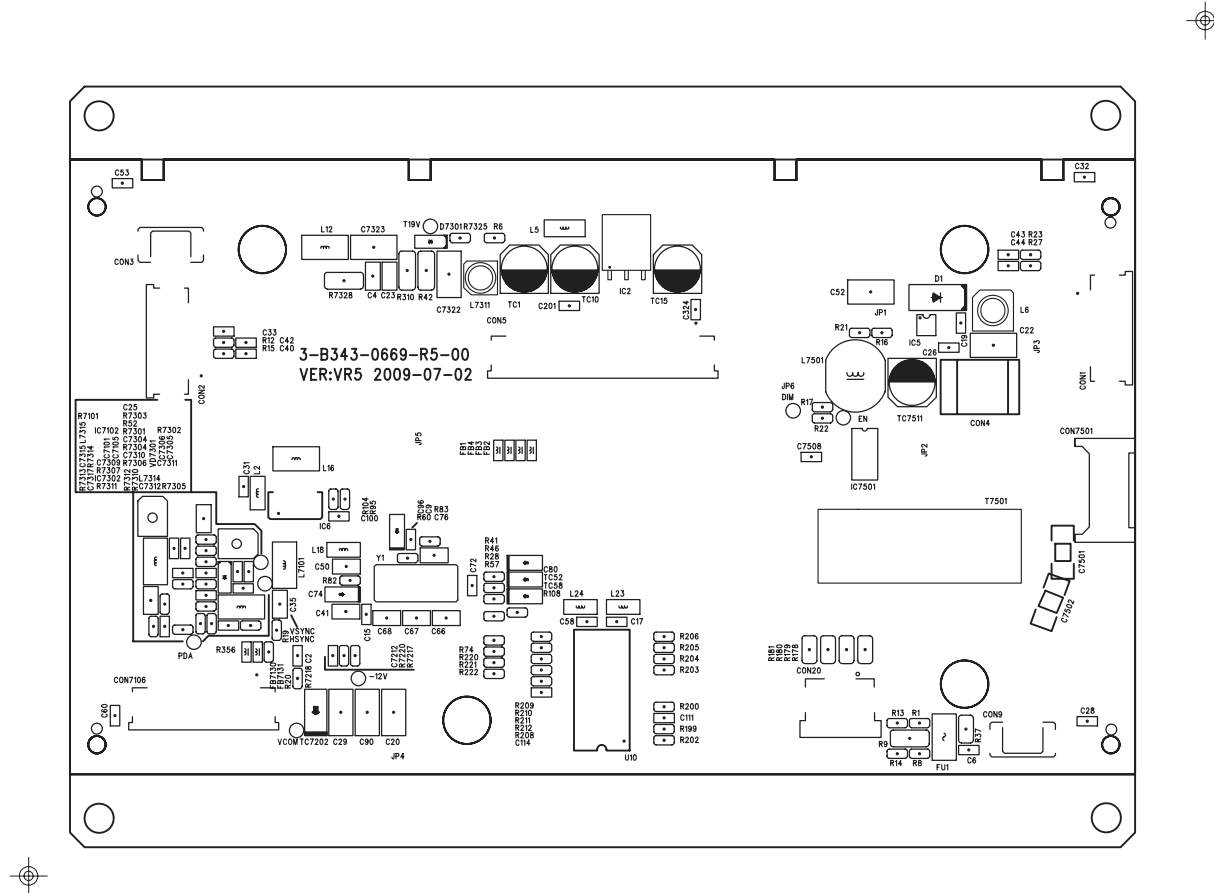
增加防静电措施，滤波

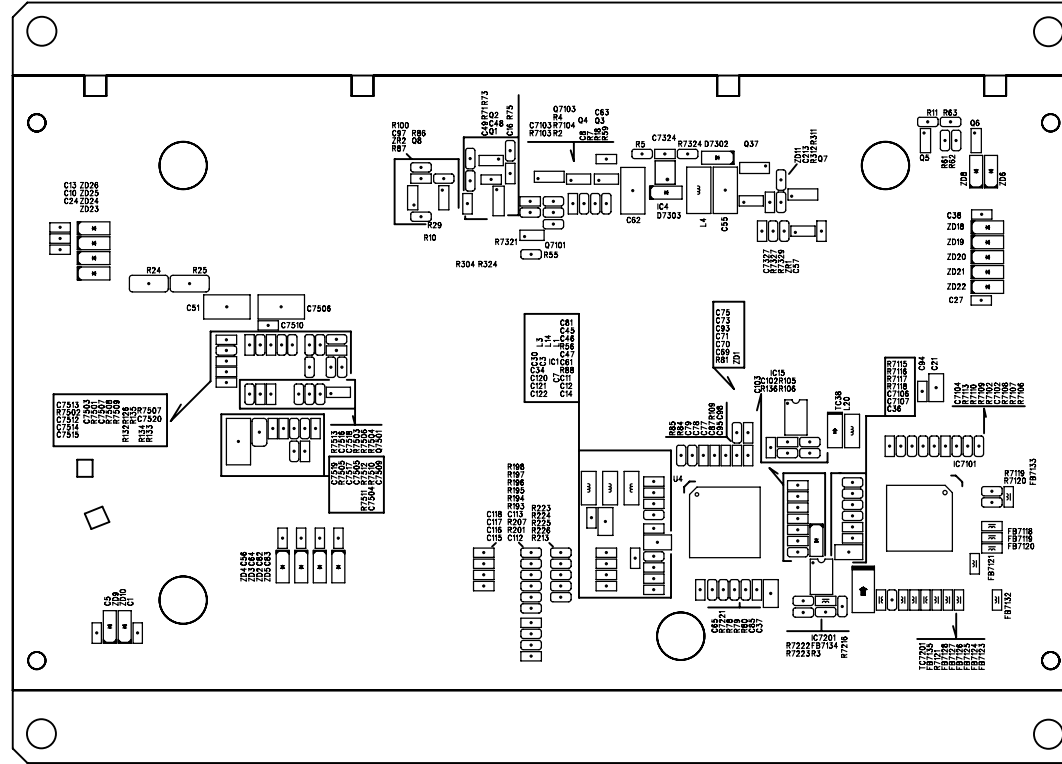


CLARION只使用该插座 LEFT KEY Connector

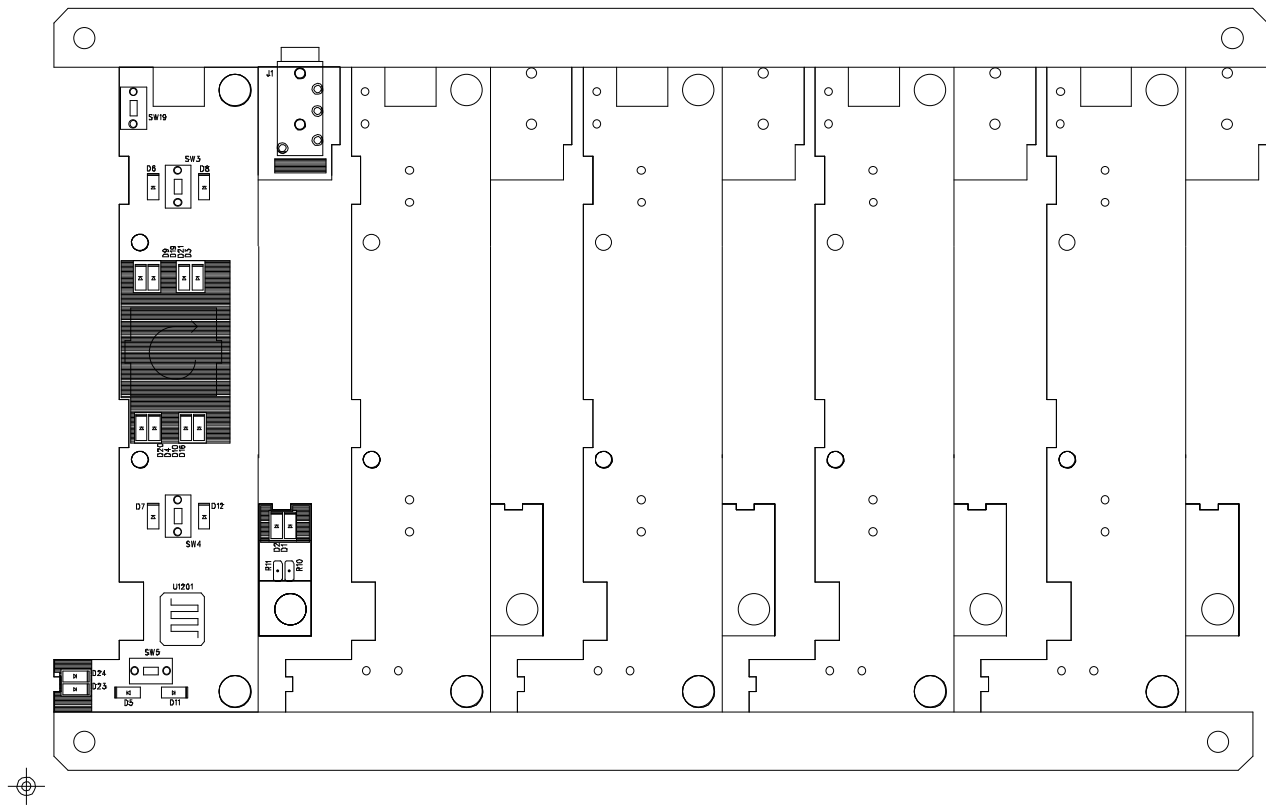
RIGHT KEY Connector

TFT PCB

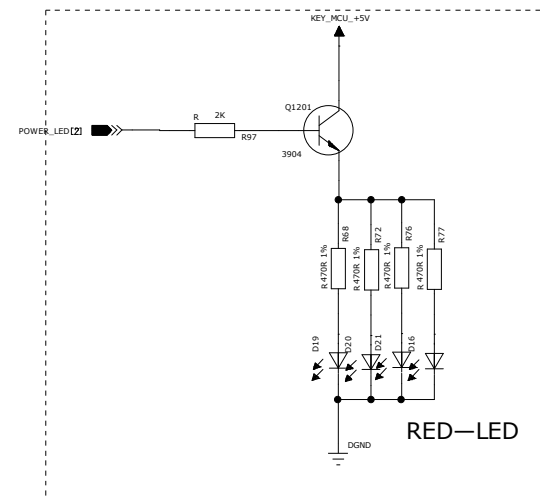
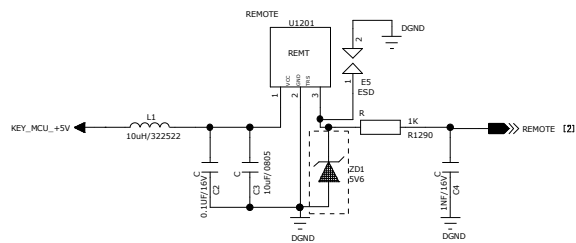
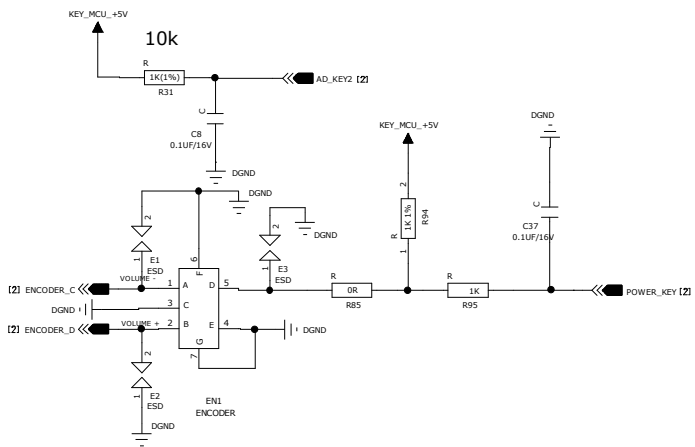
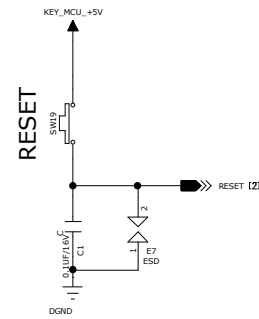
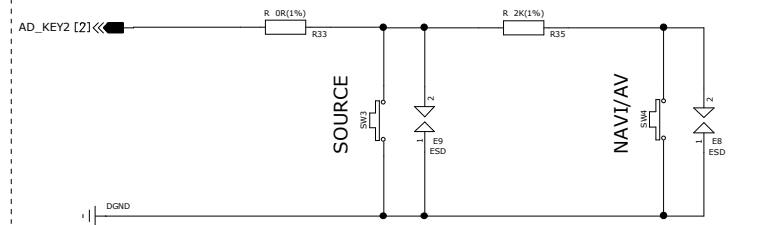
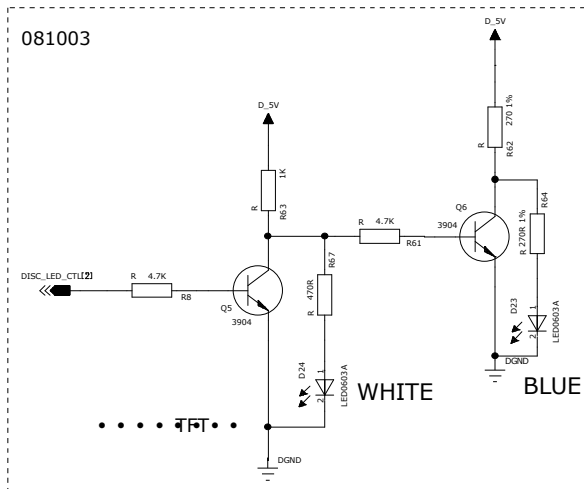
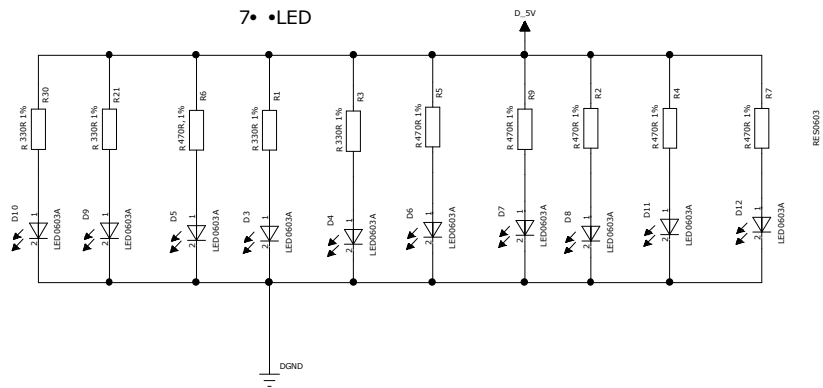
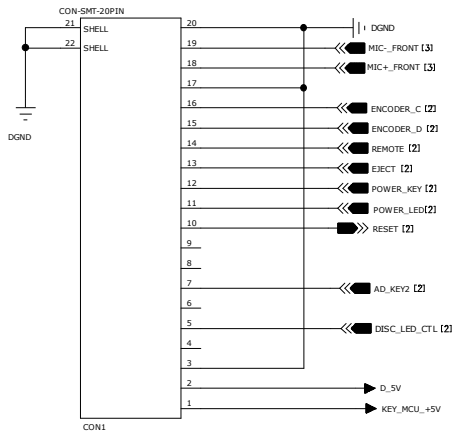




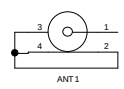
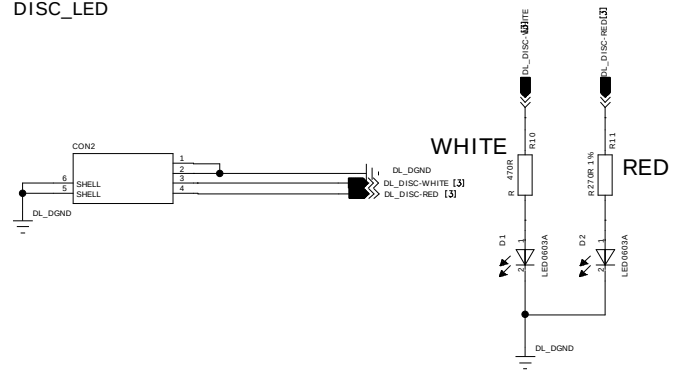
■ KEY PCB



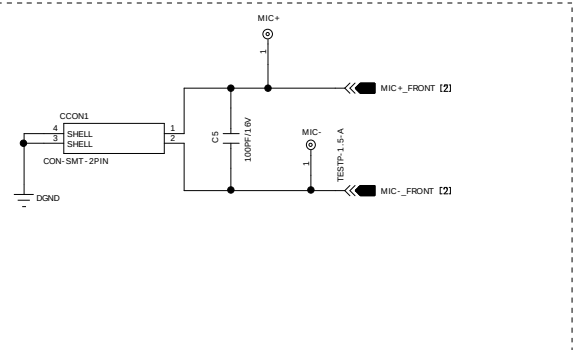
■ KEY PCB DIAGRAM



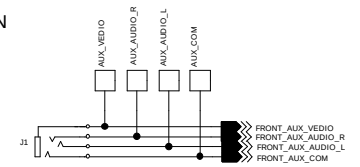
DISC_LED

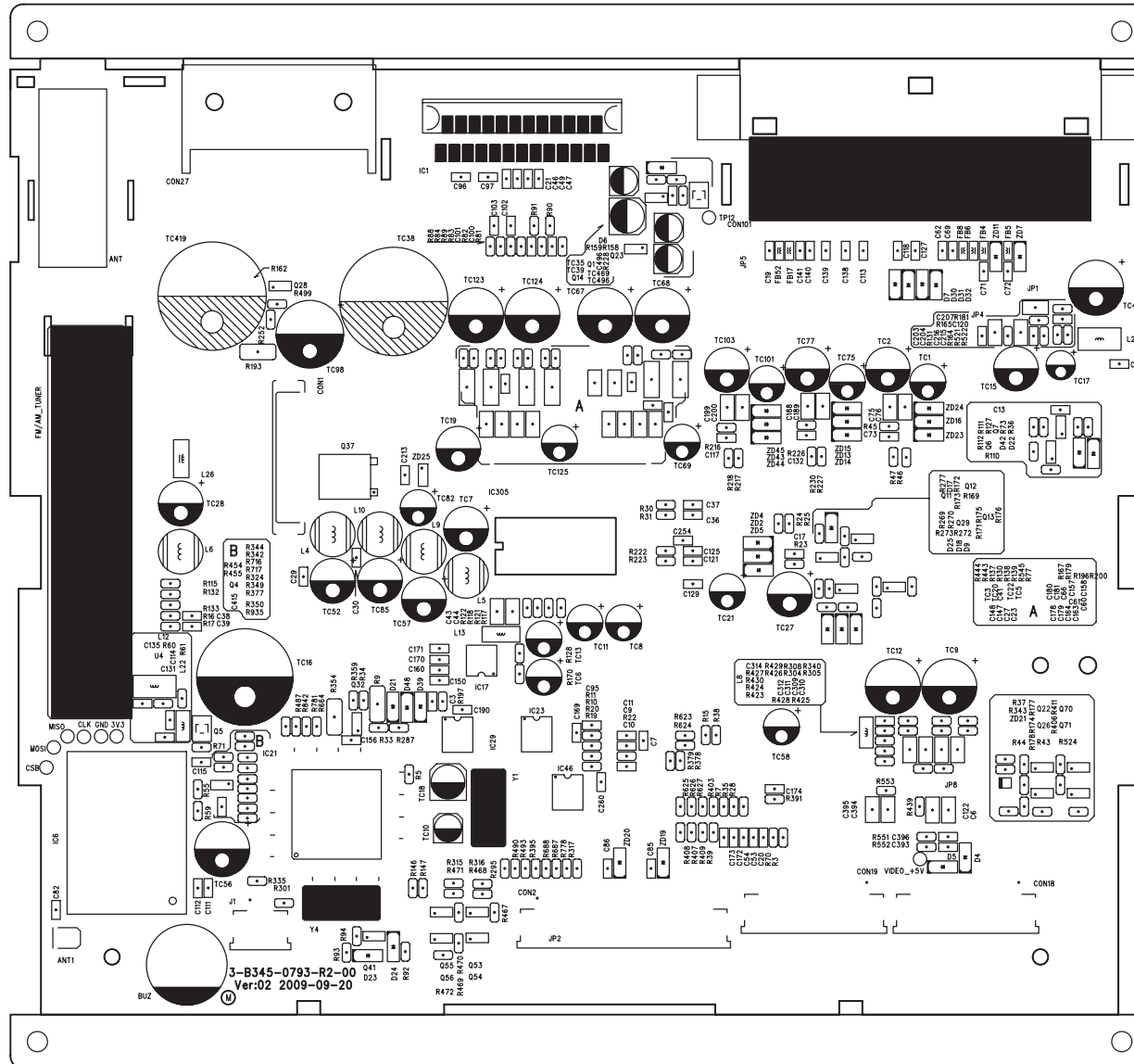


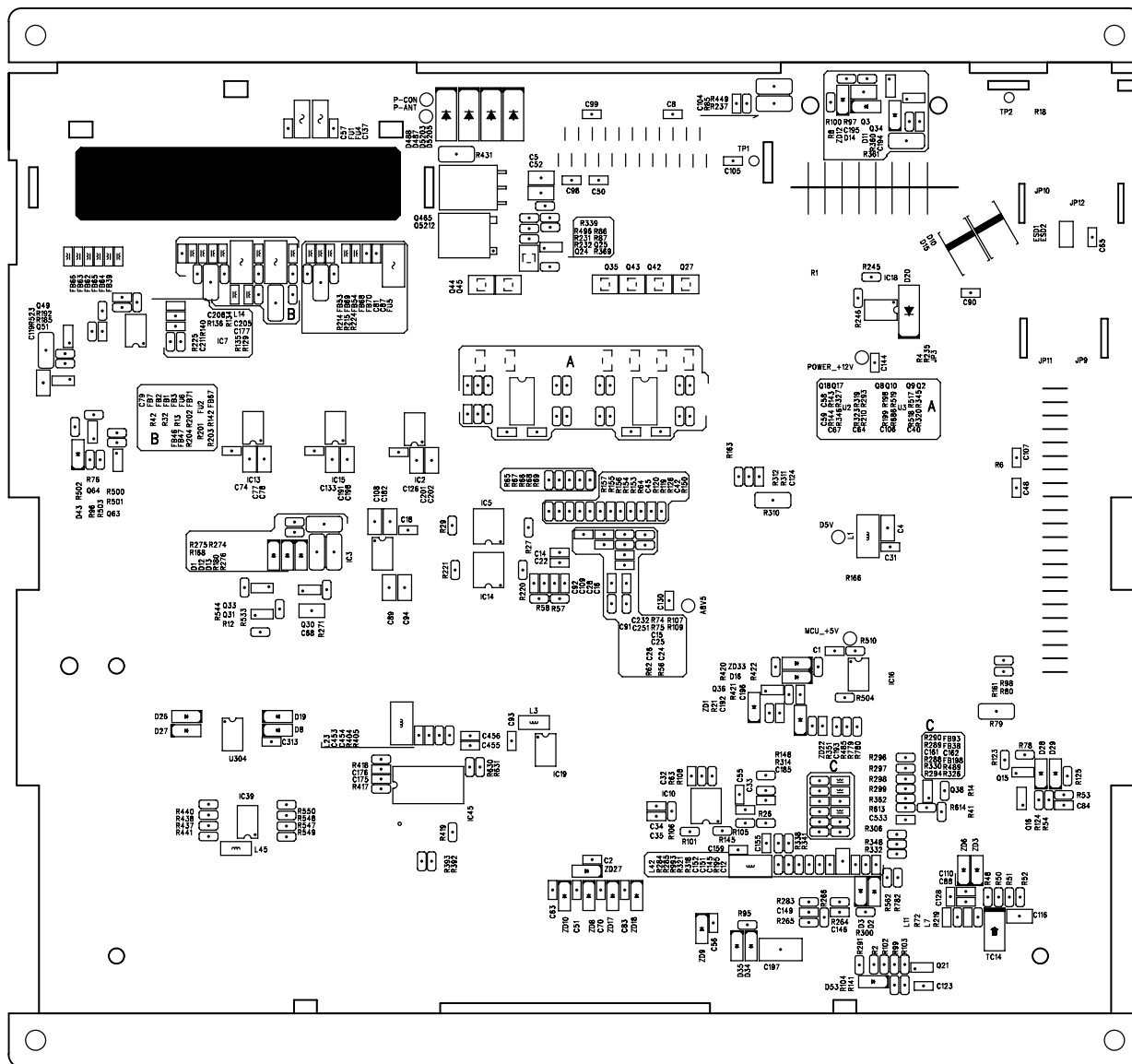
MIC 电路



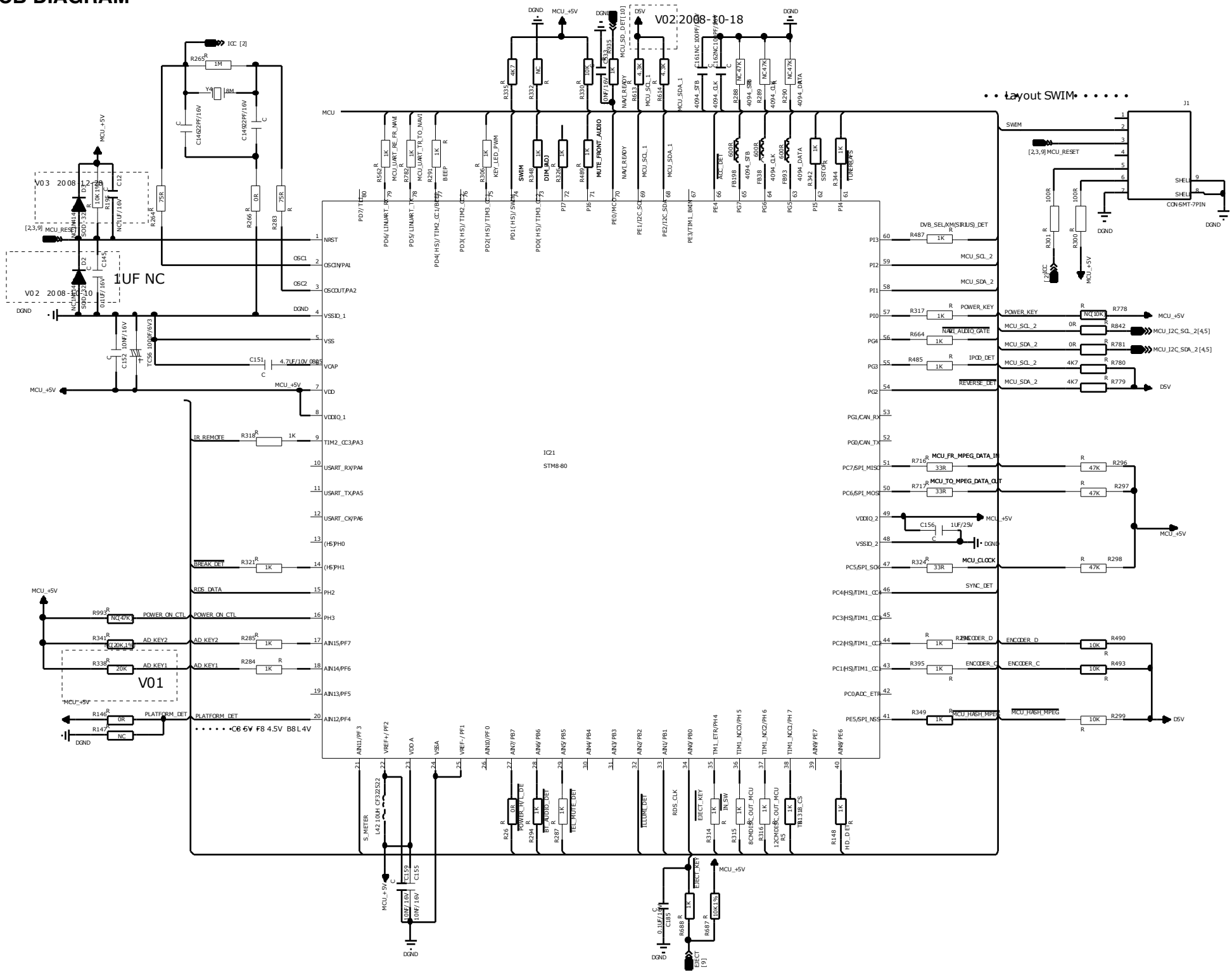
AUX_IN



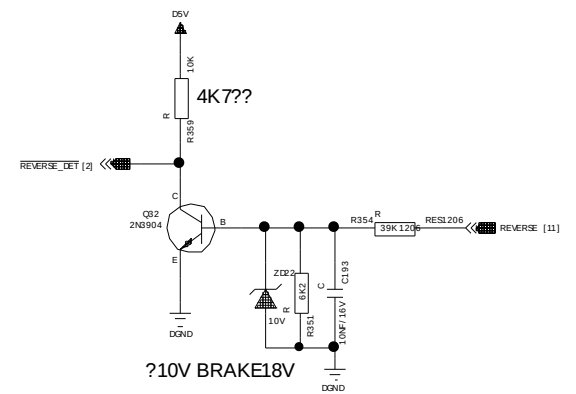
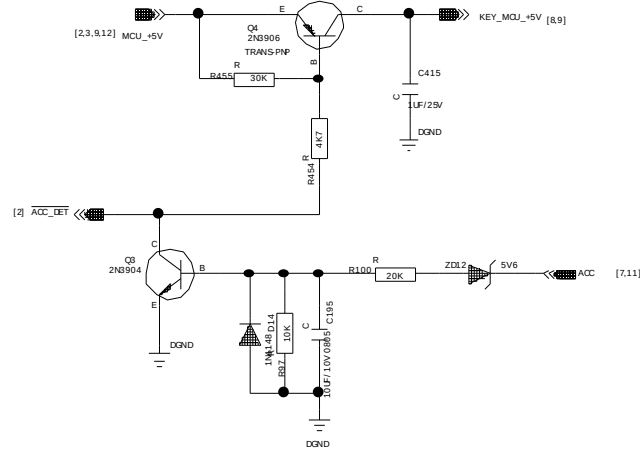
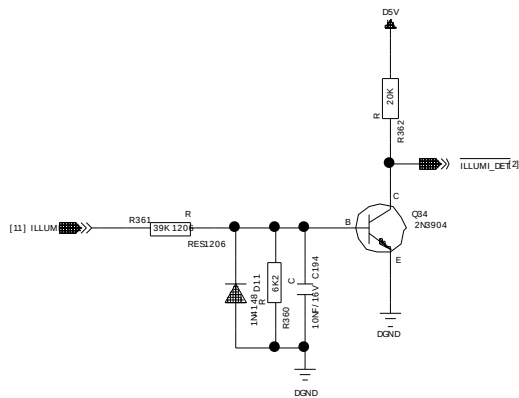
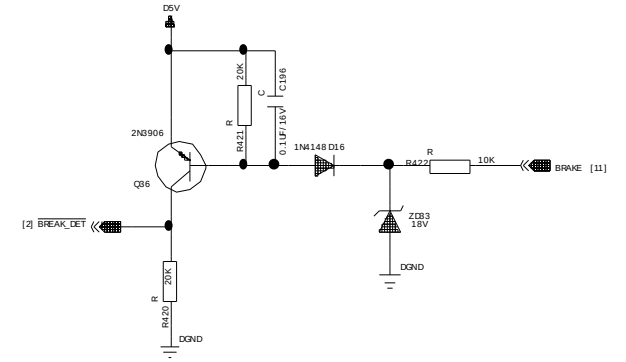
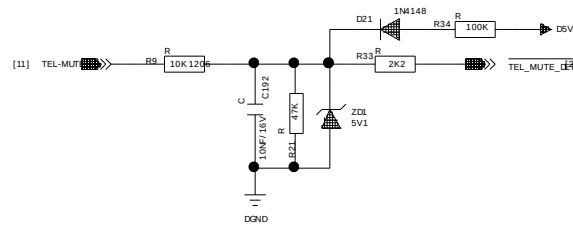
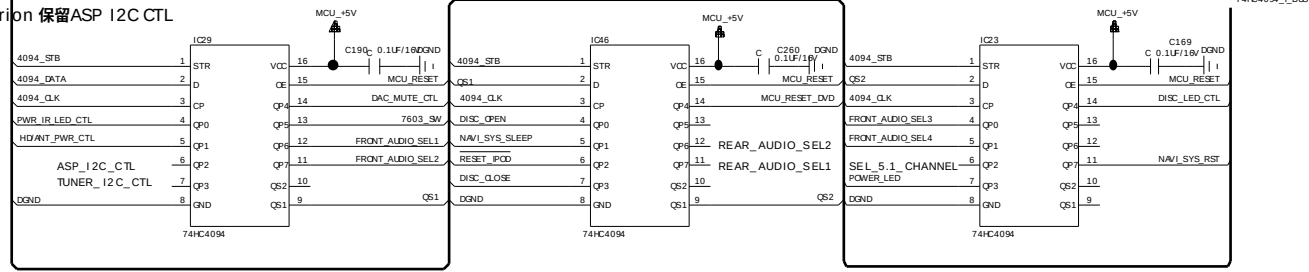


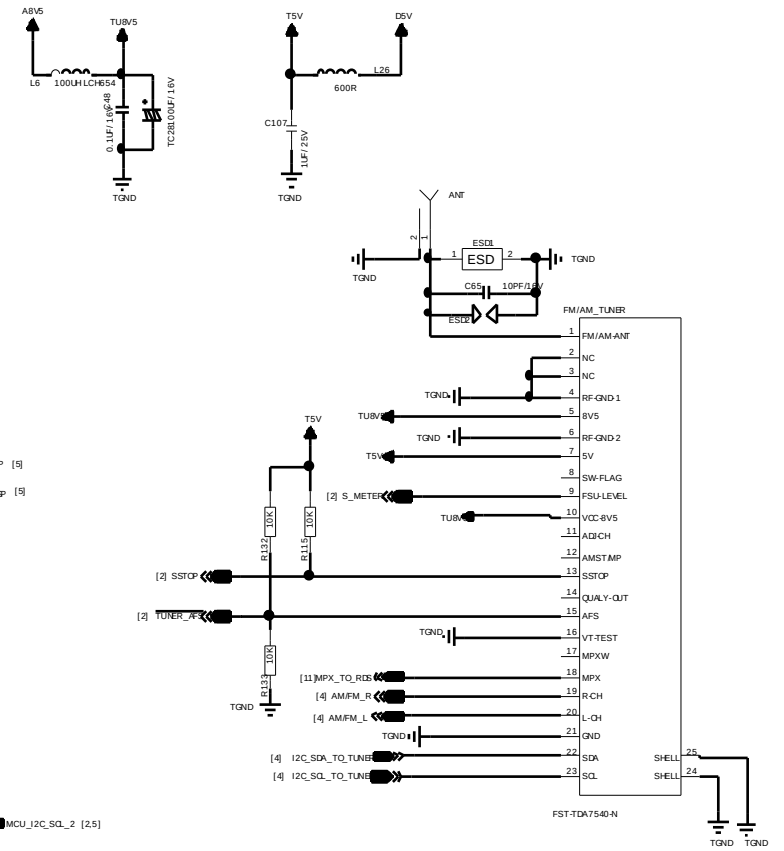
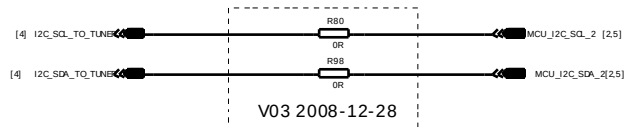


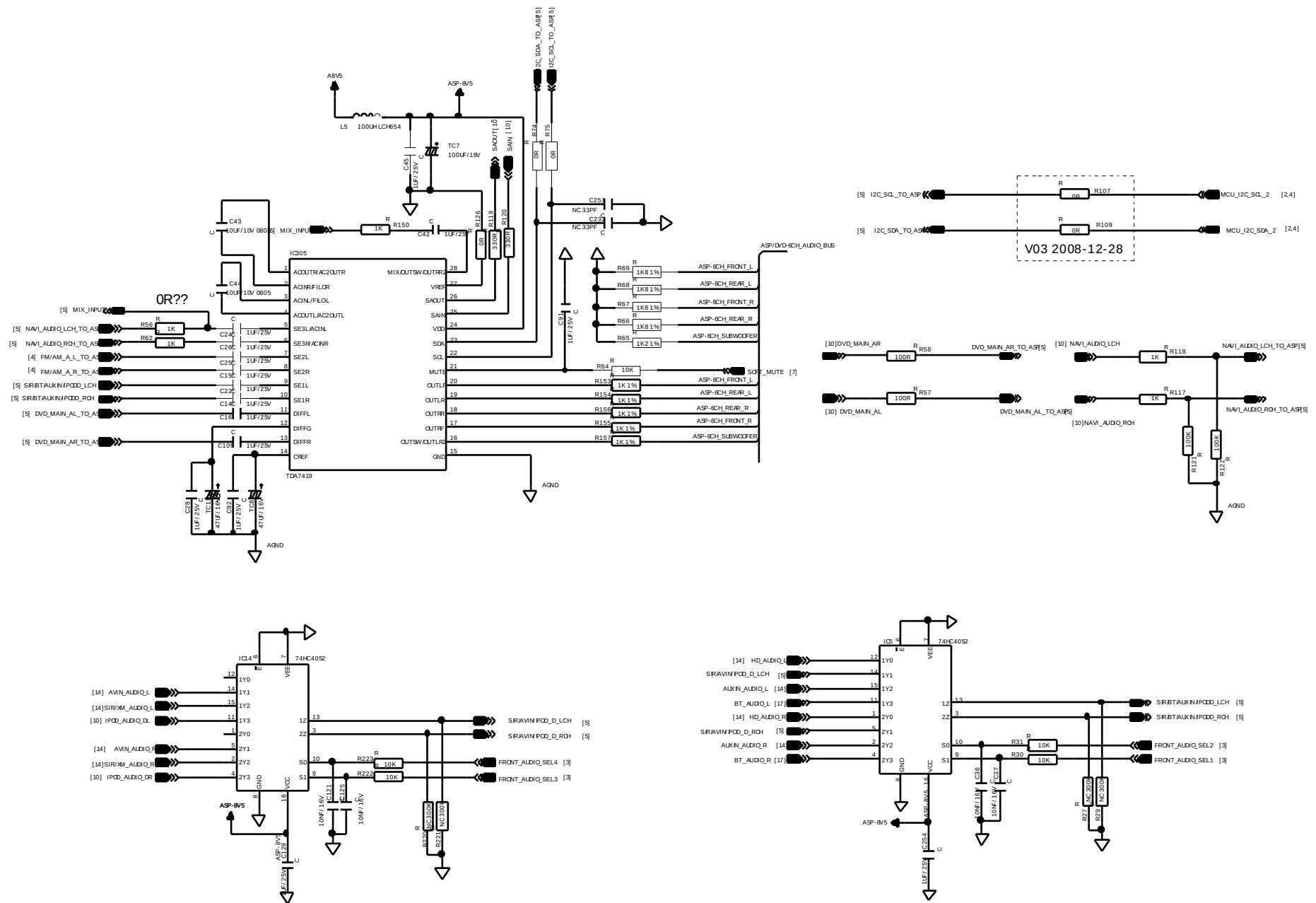
AMP PCB DIAGRAM



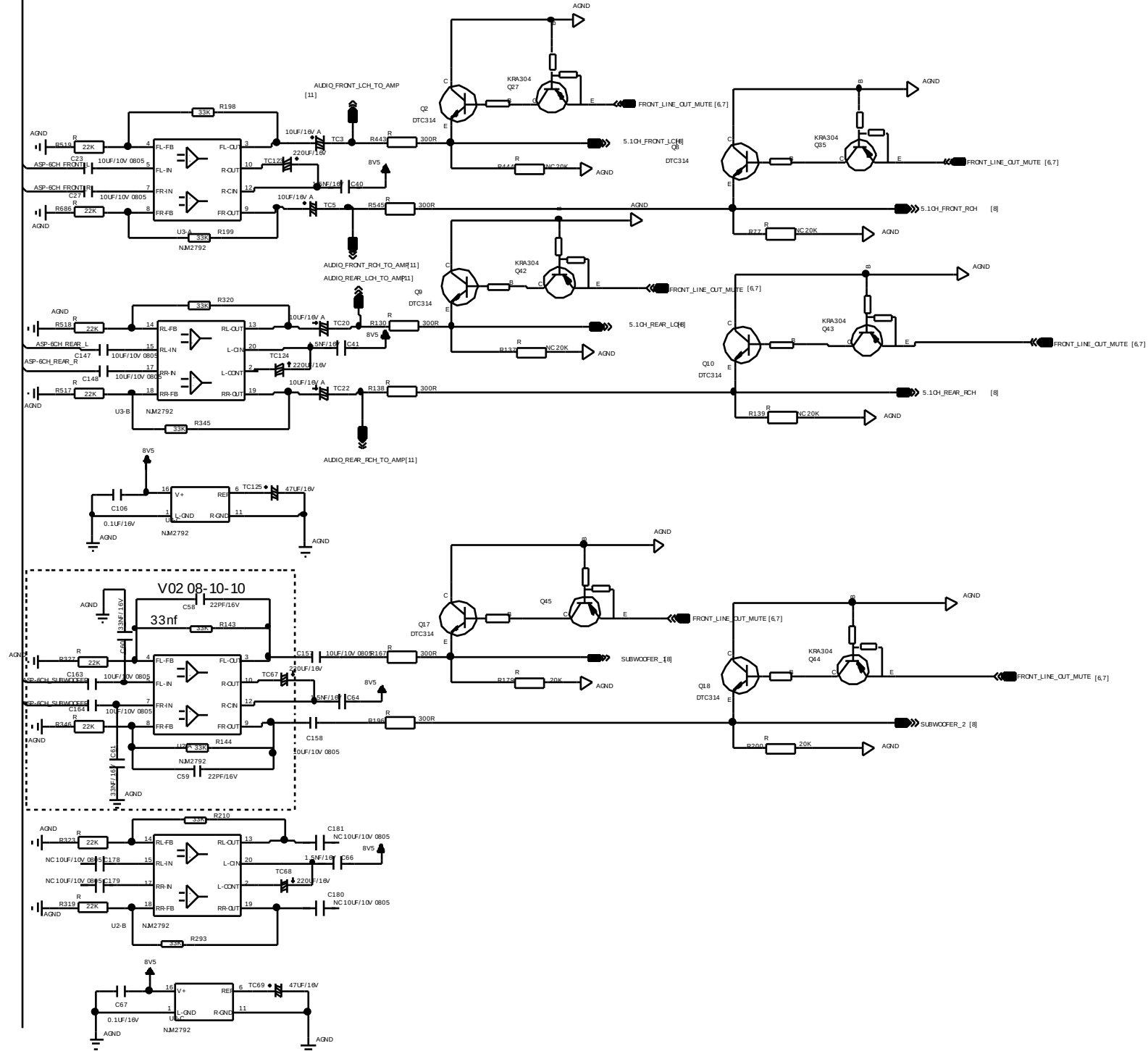
Clarion 保留ASP I2C CTL

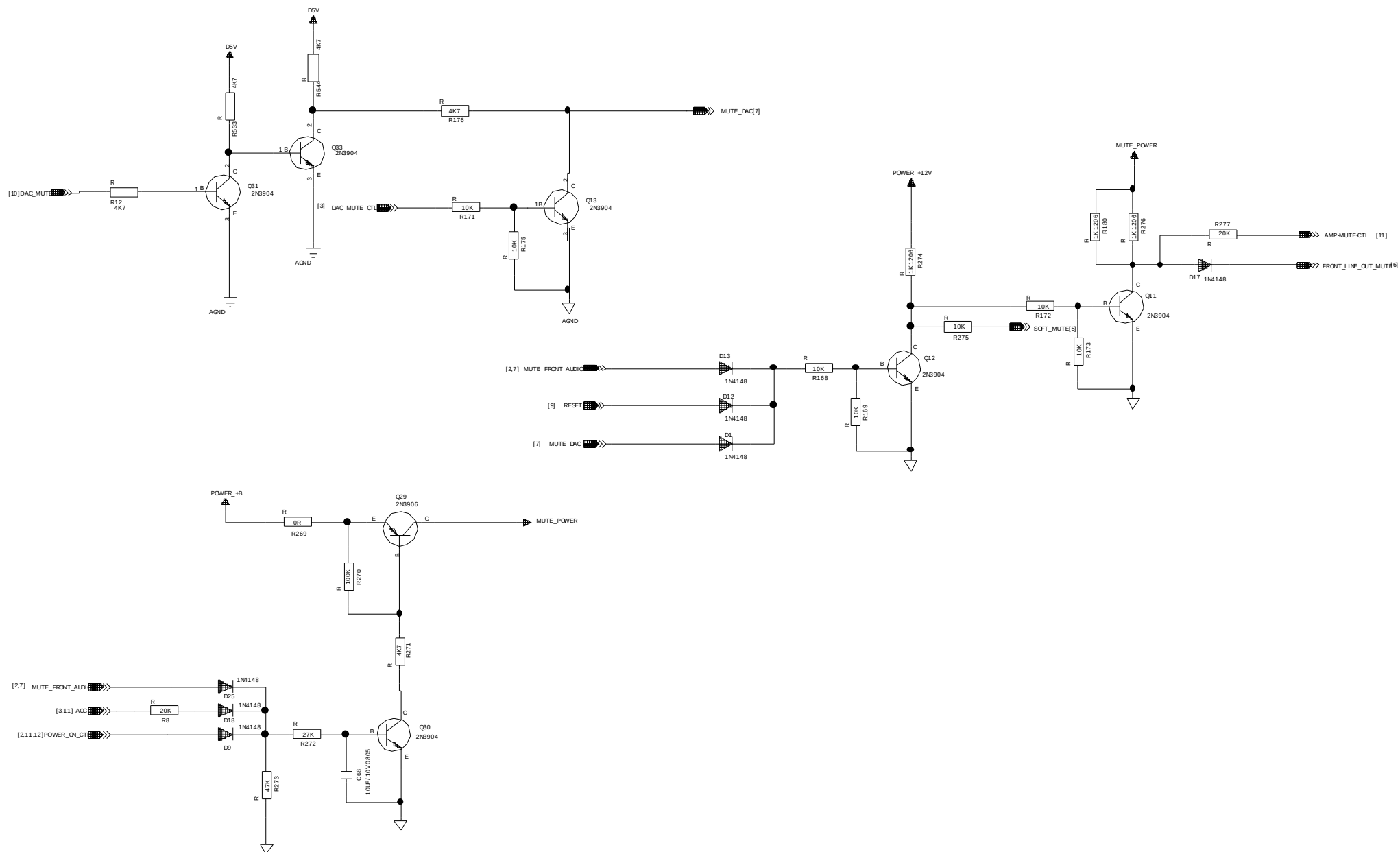


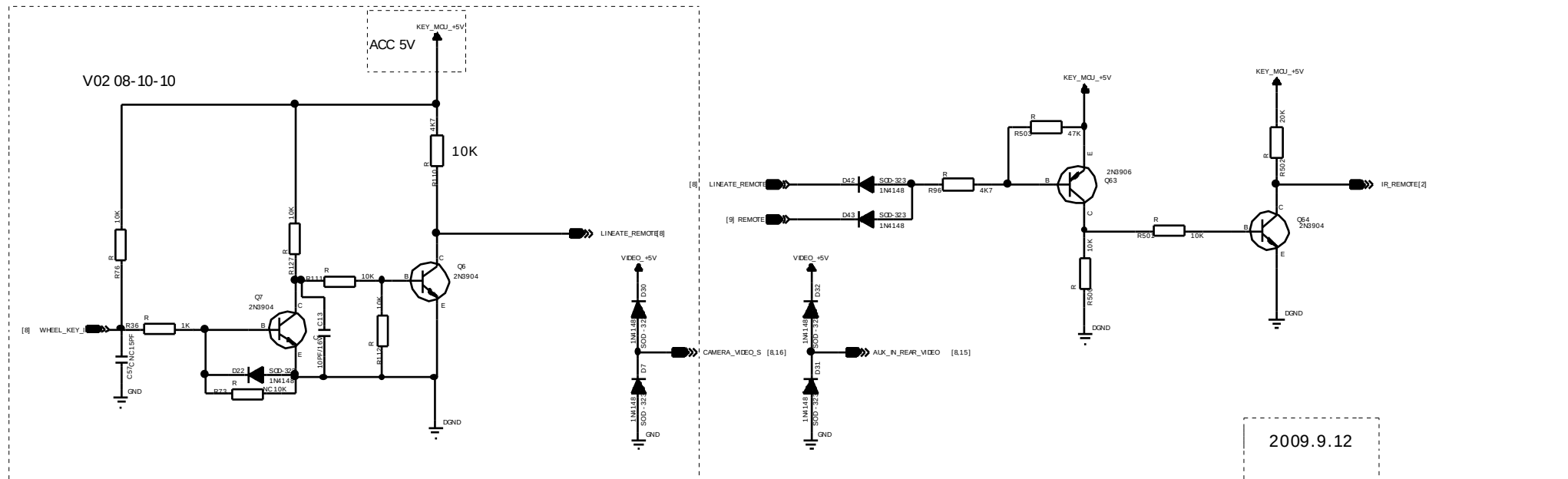


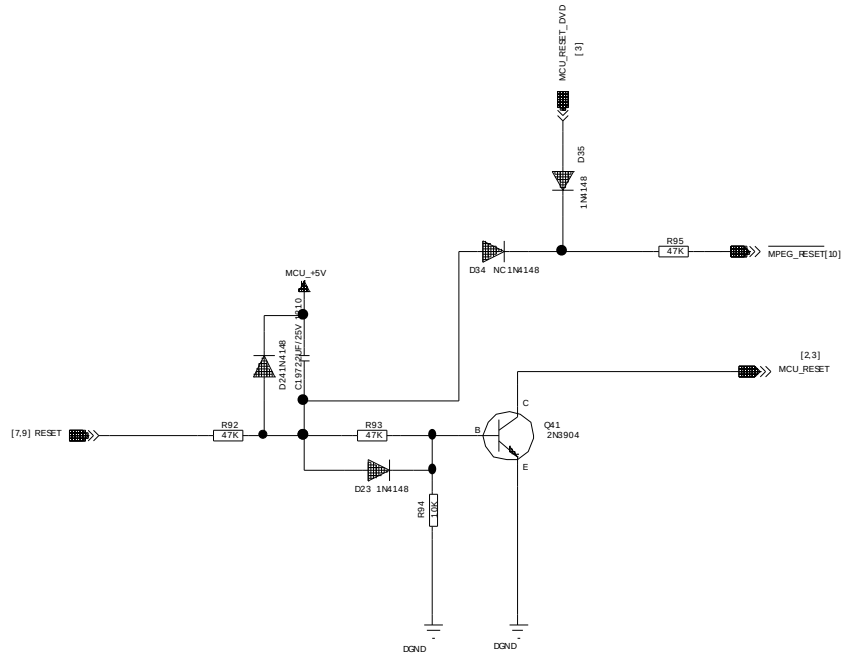
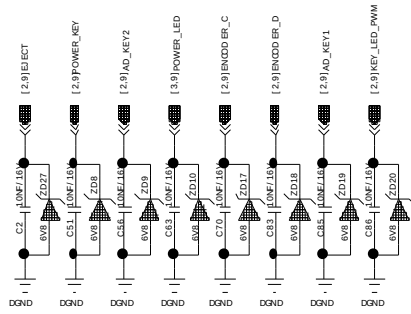
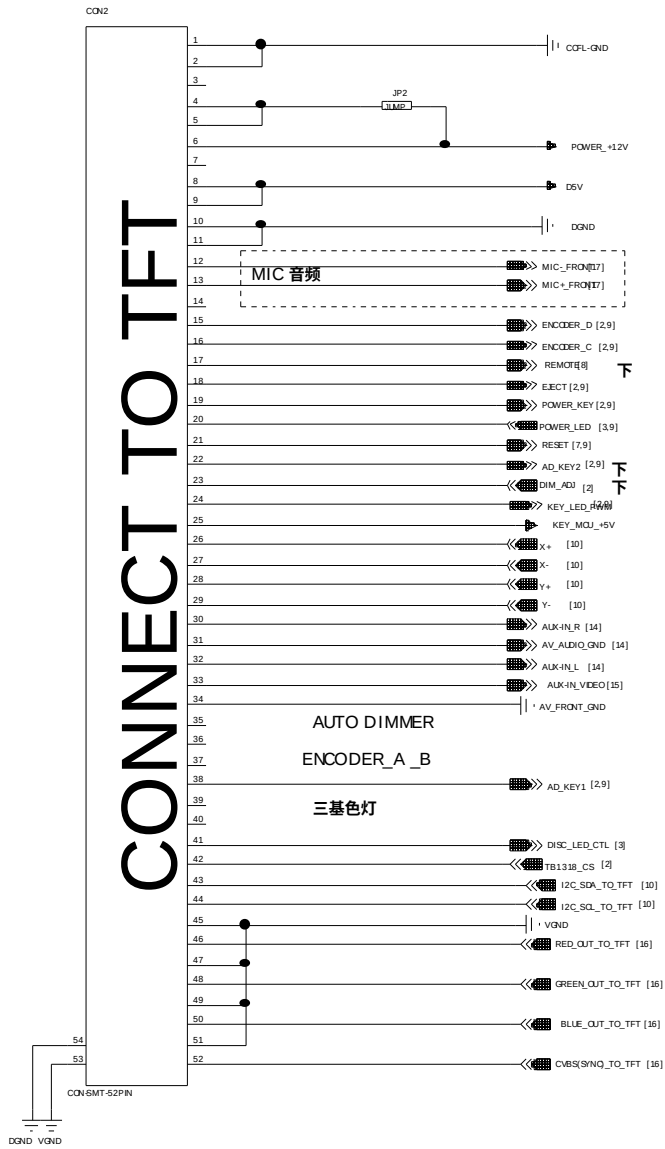


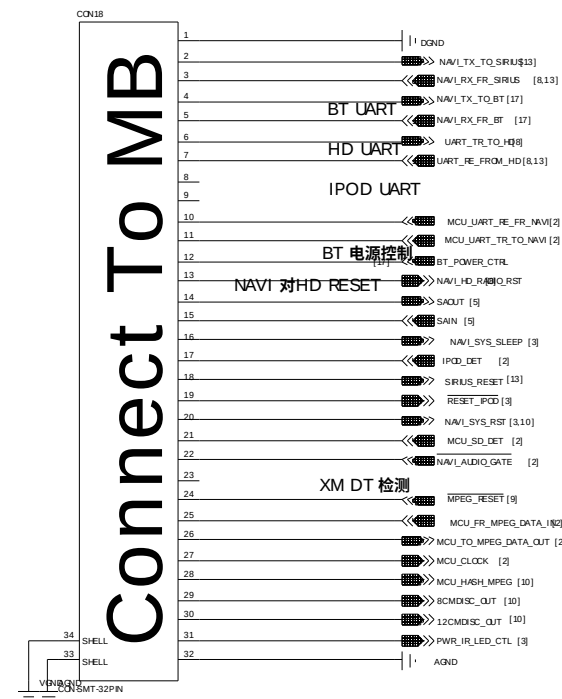
ALDIQ_BUS



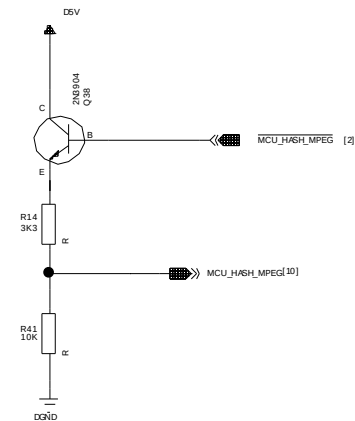
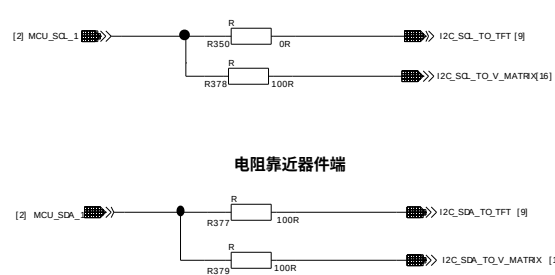
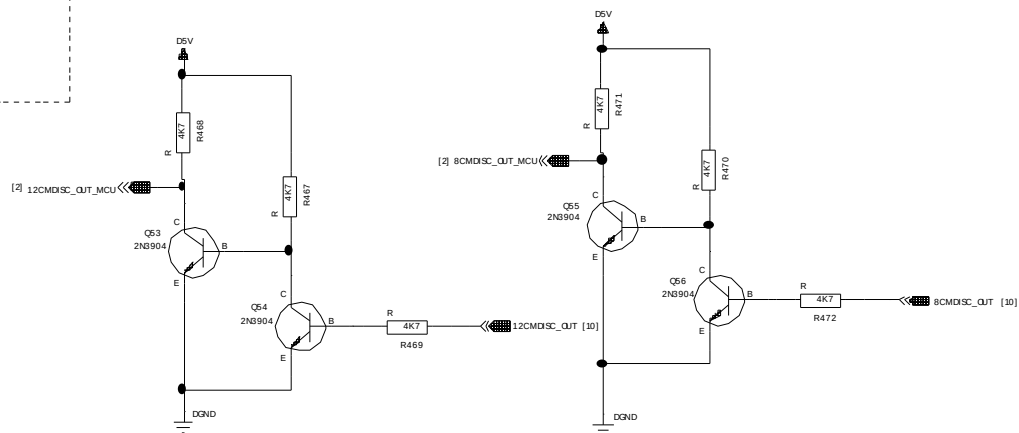
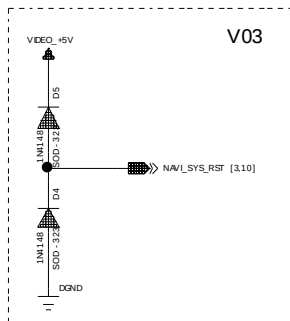
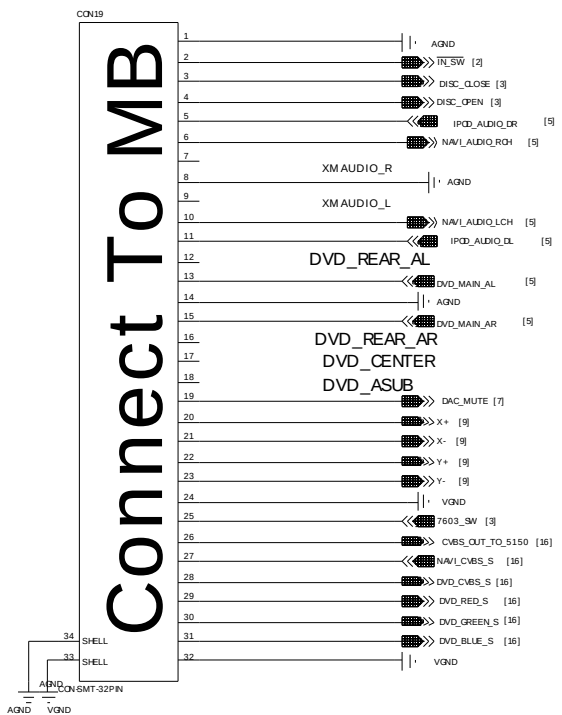


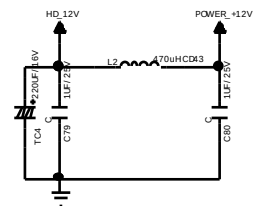
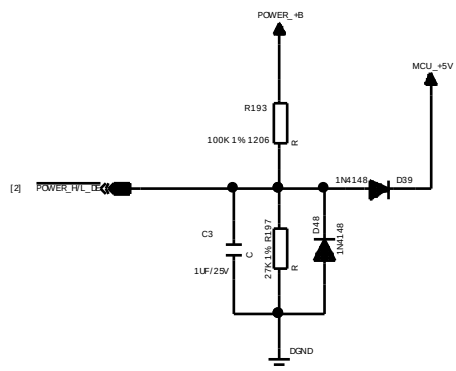
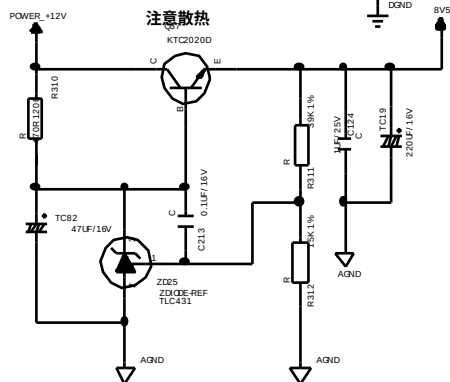
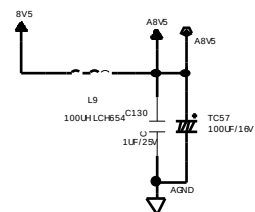
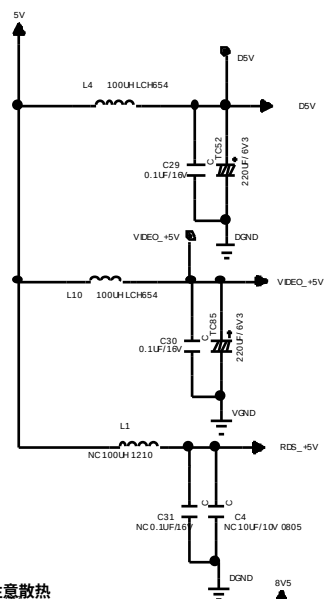
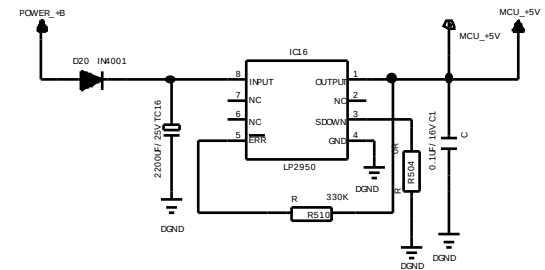
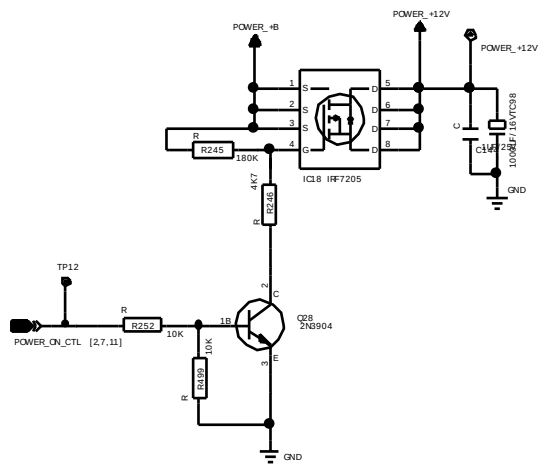


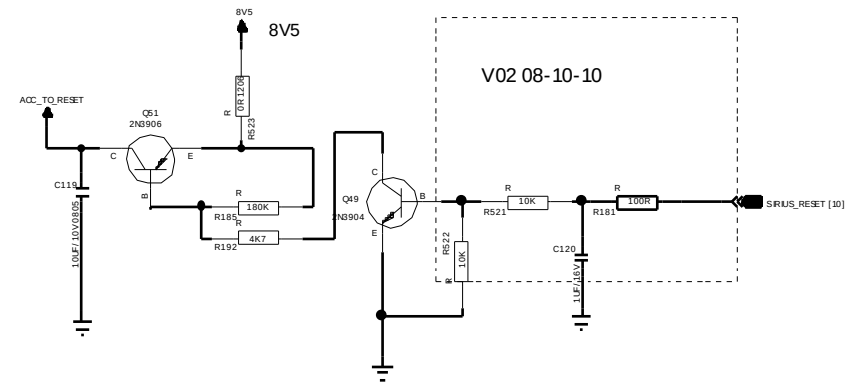
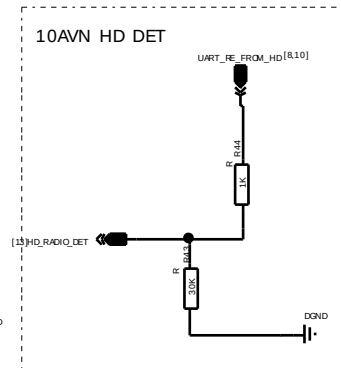


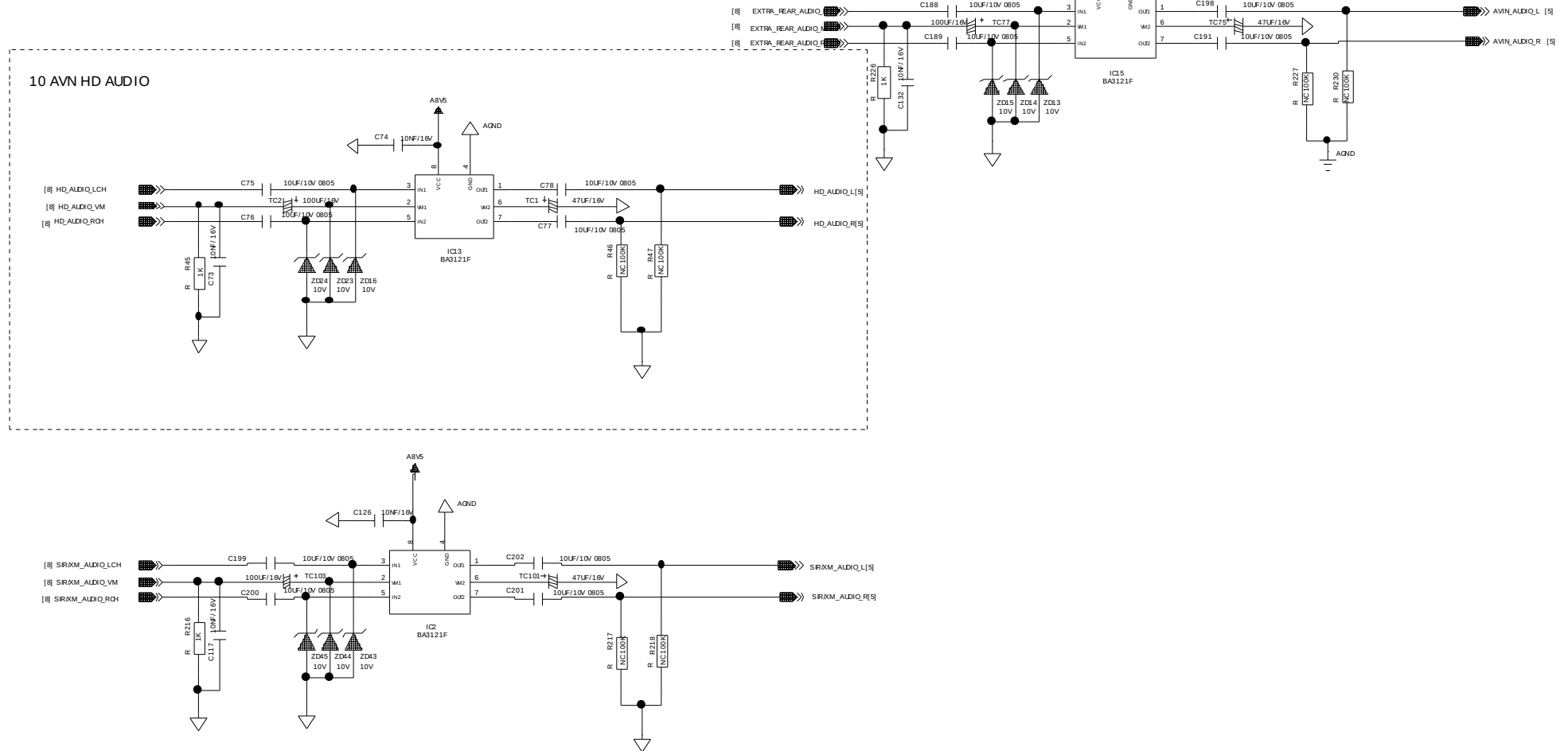
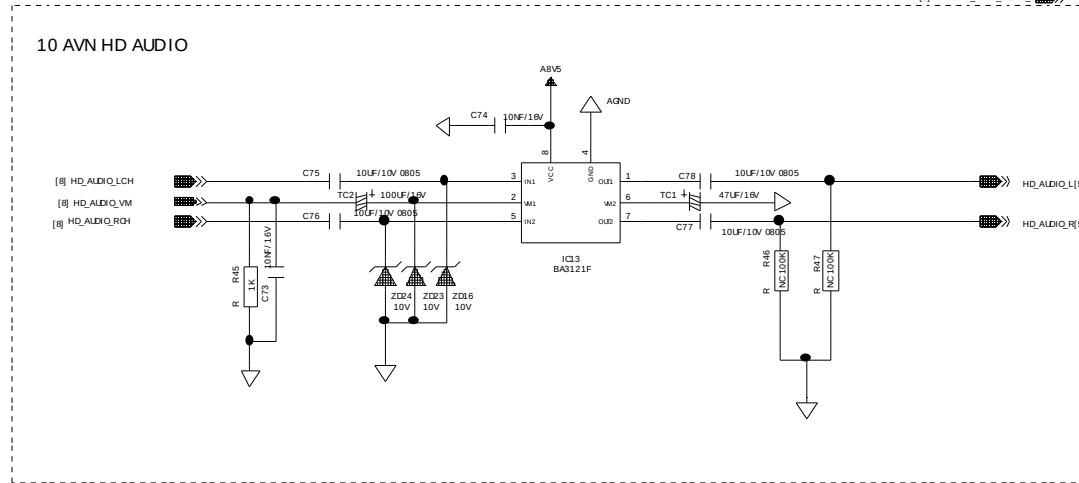
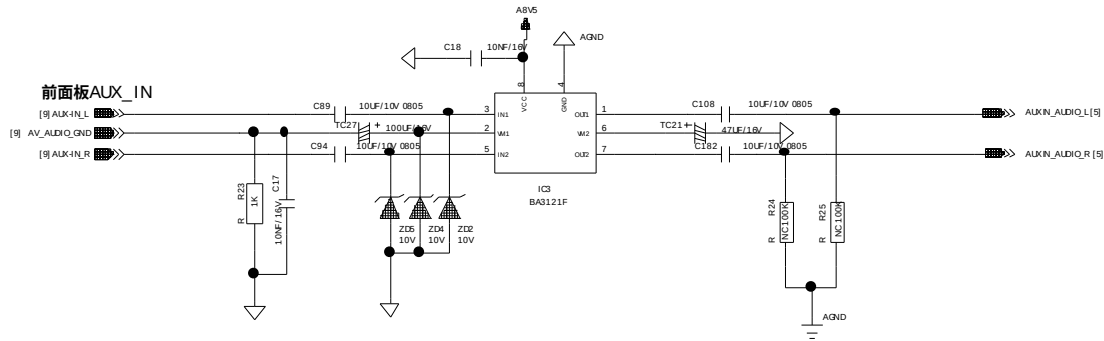


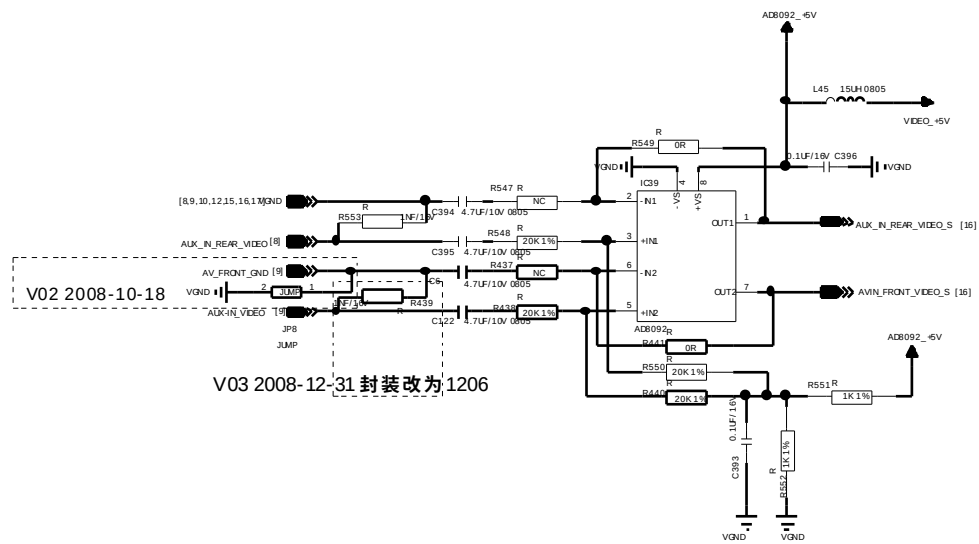
10.18变更1、32PIN为AGND

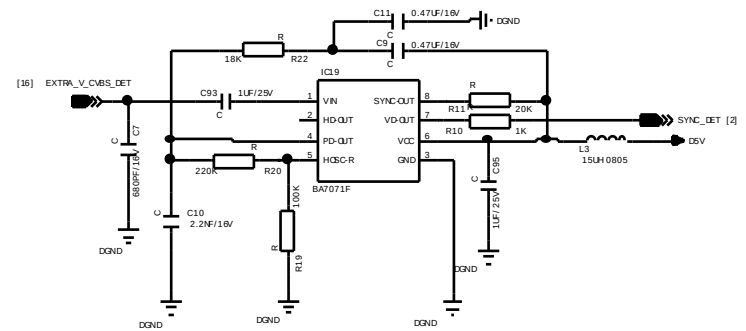
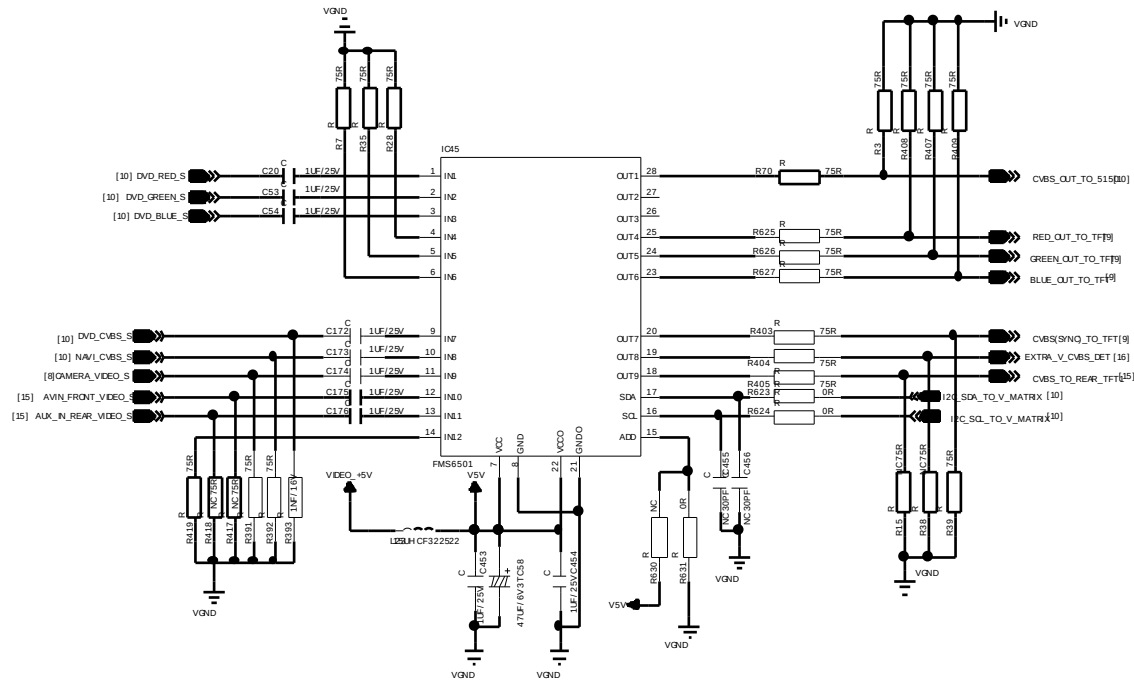


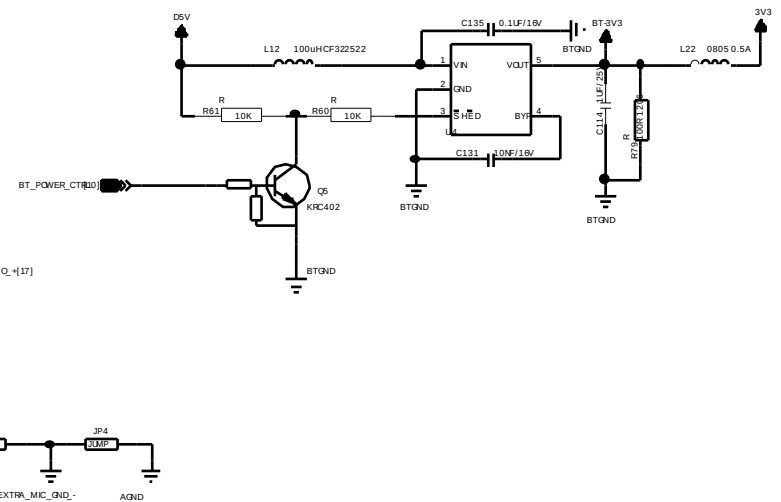
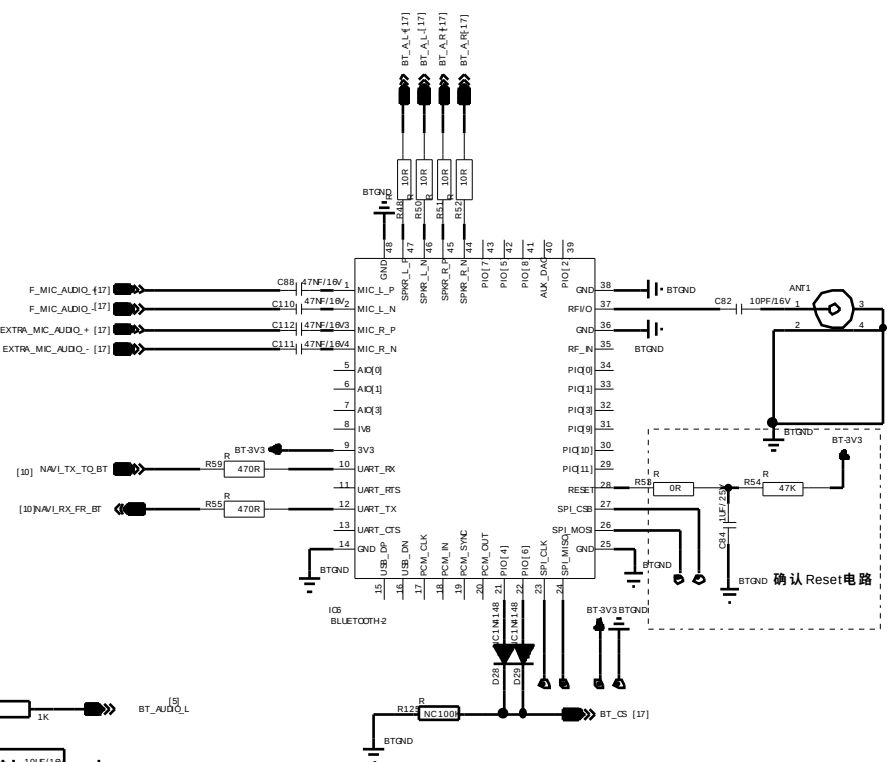
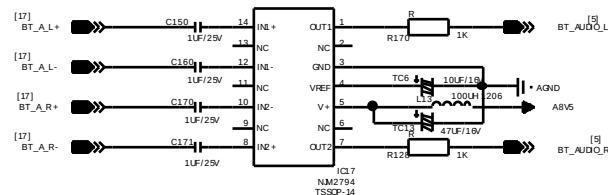
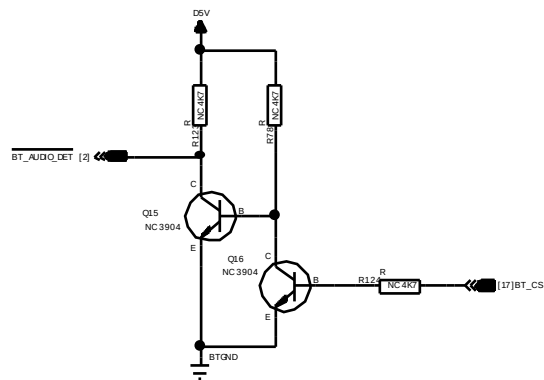




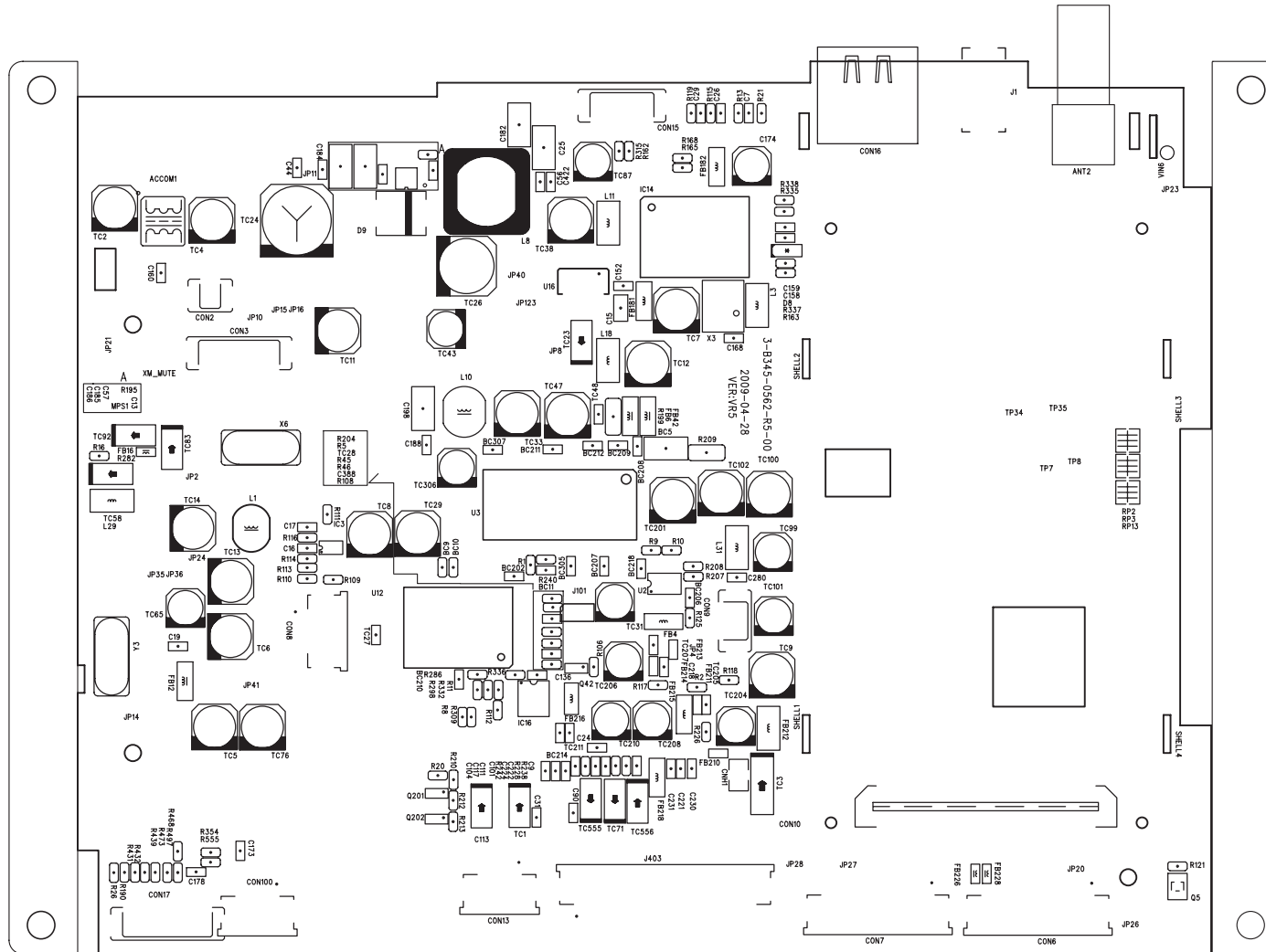


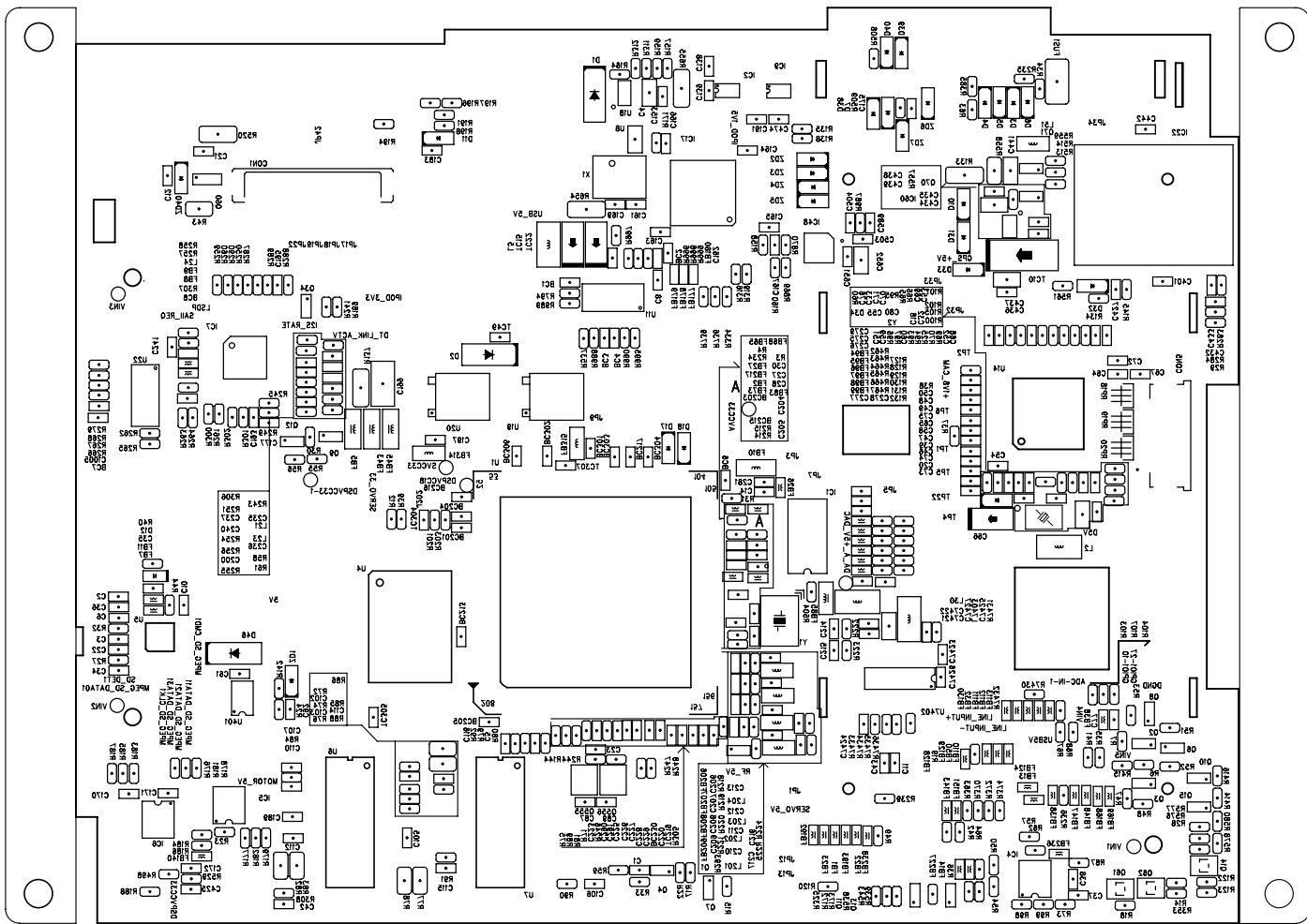




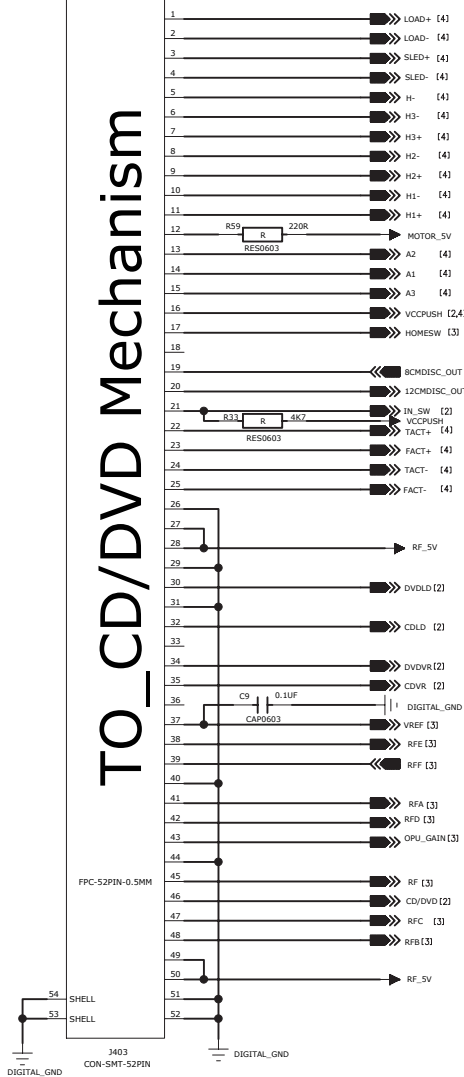


MAINBOARD PCB

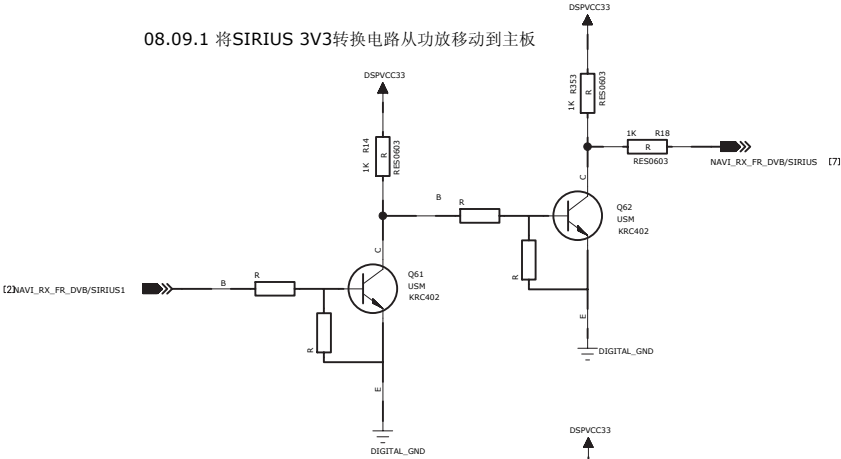




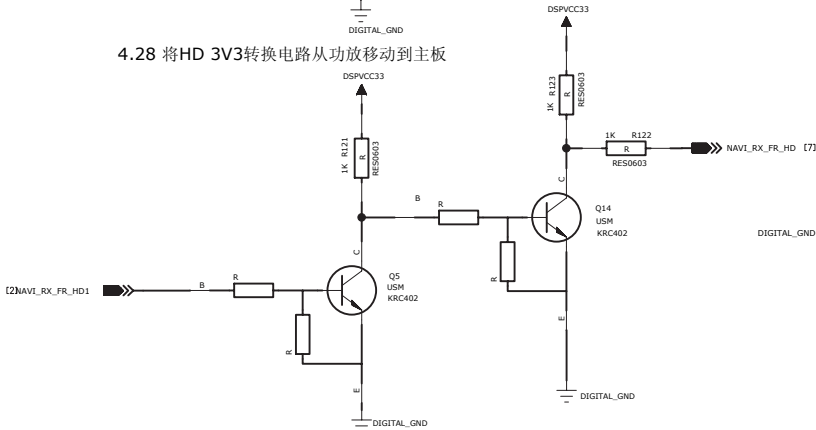
TO_CD/DVD Mechanism



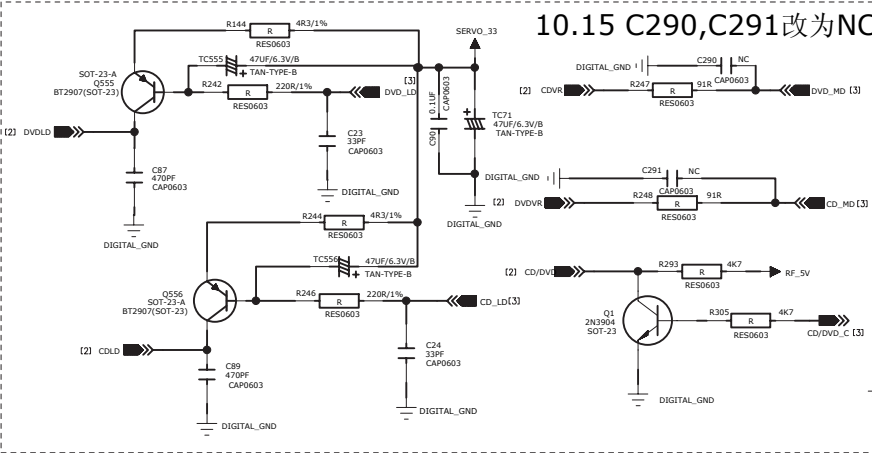
08.09.1 将SIRIUS 3V3转换电路从功放移动到主板



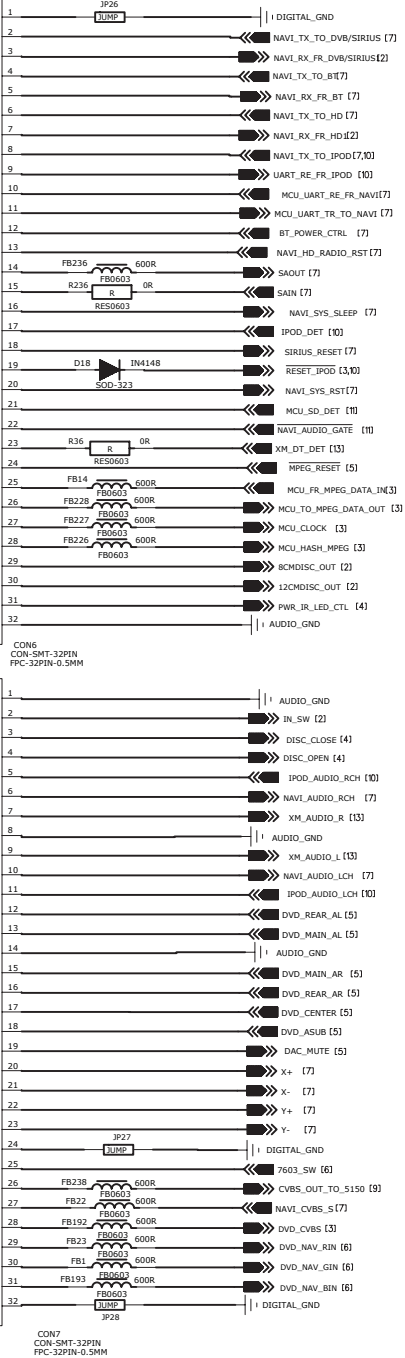
4.28 将HD 3V3转换电路从功放移动到主板

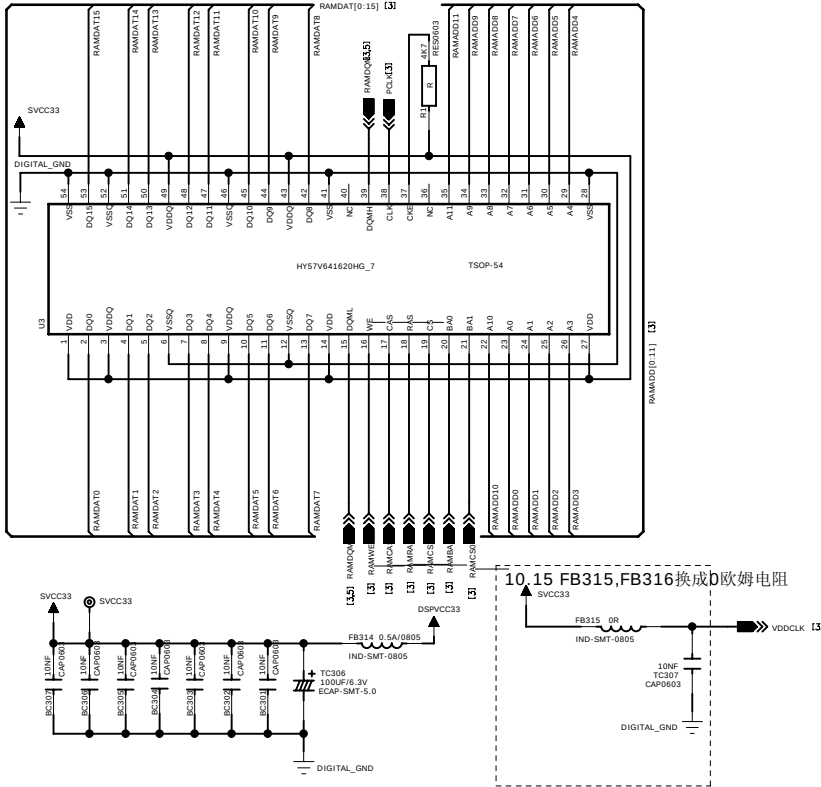
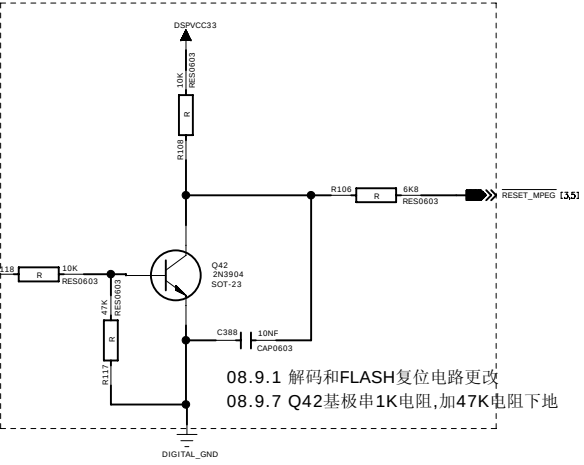


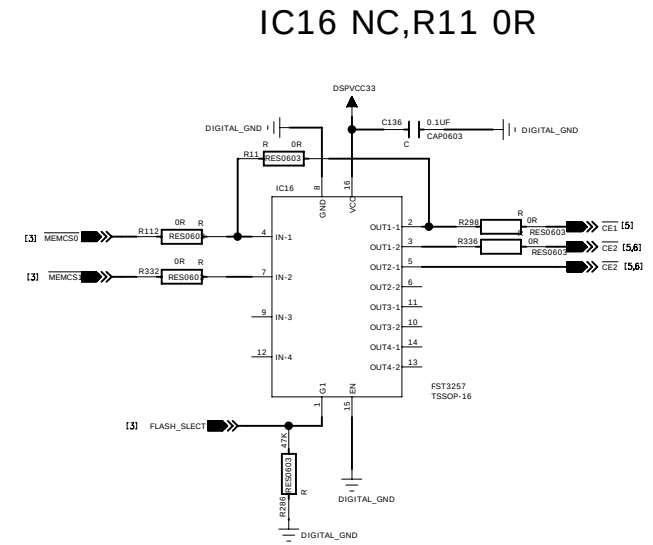
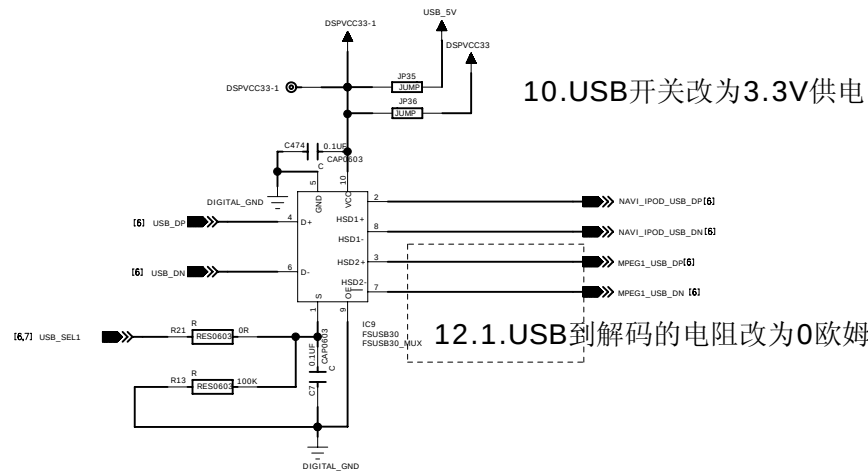
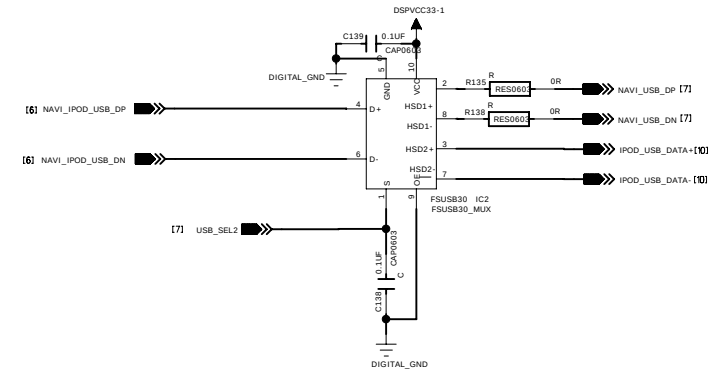
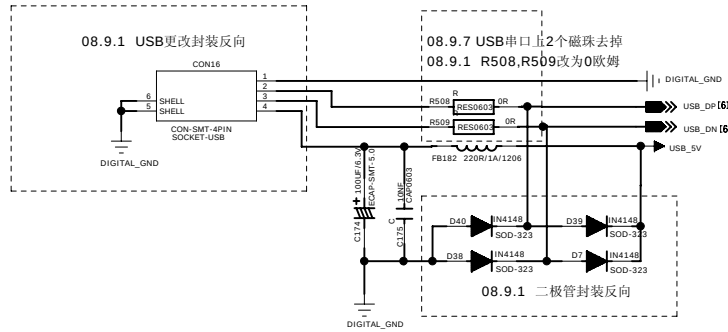
10.15 C290,C291改为NC



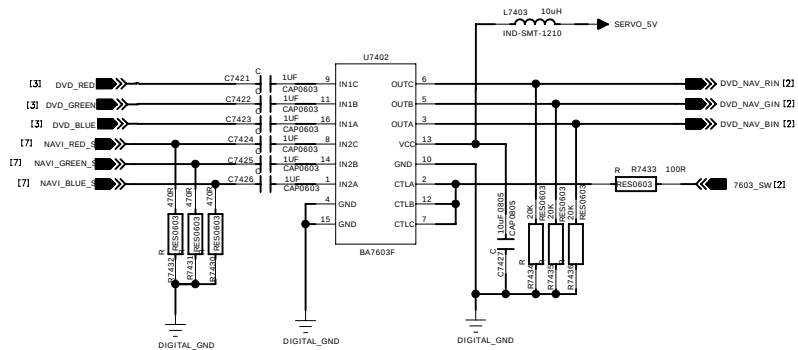
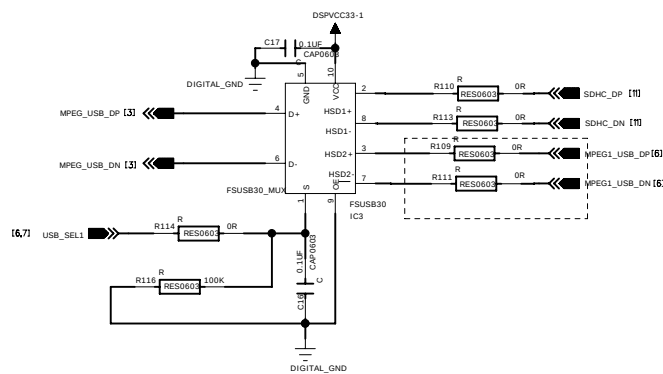
Connect To AMP Board



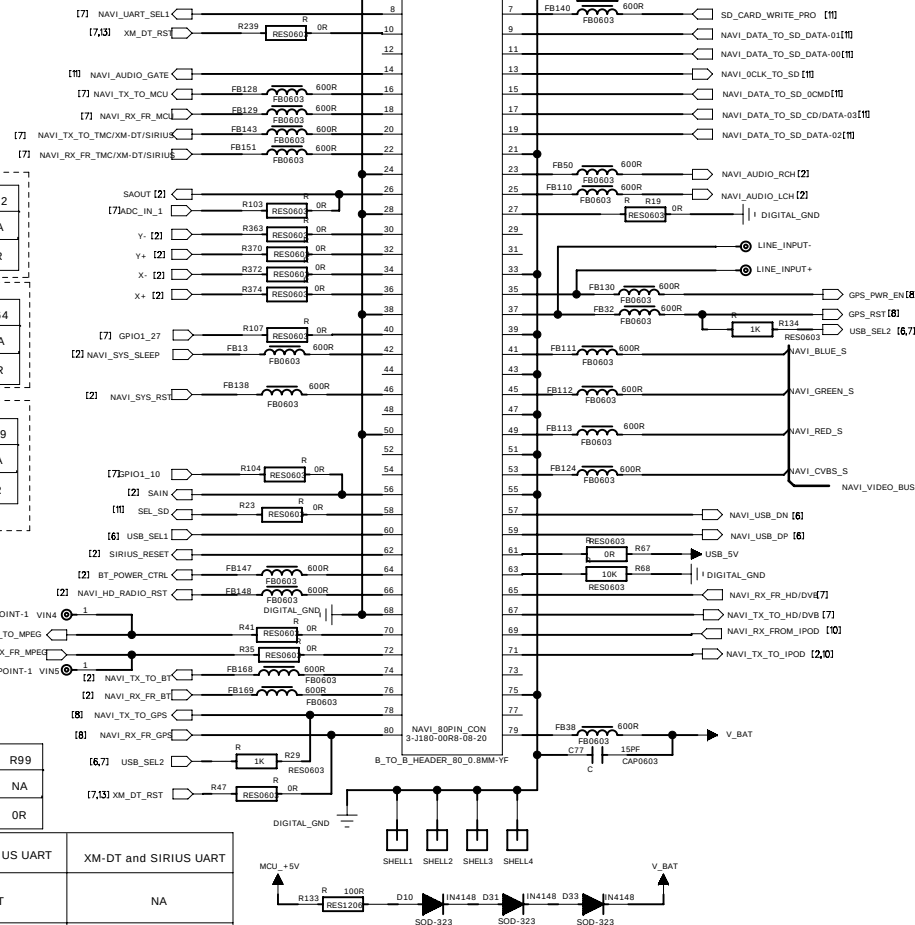
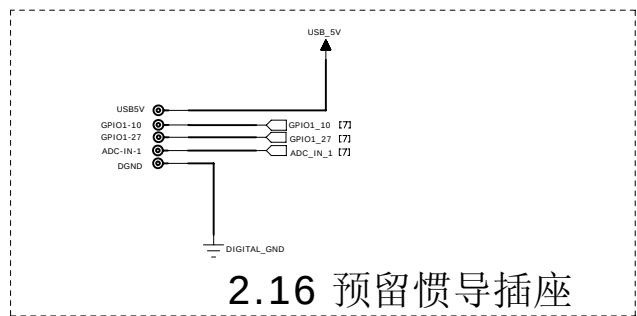




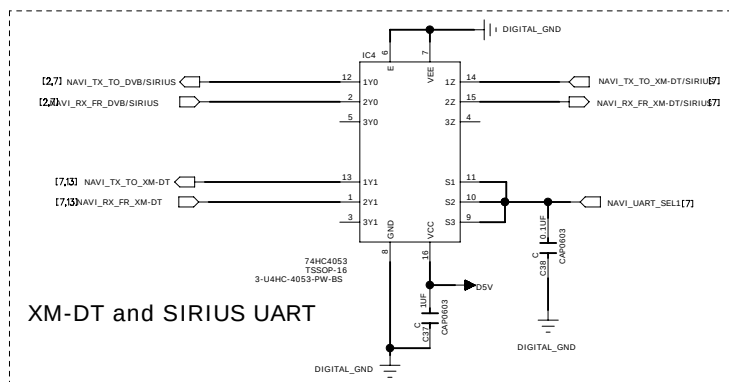
2.16 删去USB通路上的0欧姆电阻



变更: Change video_gnd to digetal_gnd



1. PIN27增加一个电阻下地
2. PIN35,37增加测试点
3. PIN78兼容USB_SEL2
4. PIN80兼容XM_DT_RST
5. PIN61接电阻到USB_5V, PIN63接电阻下地



	R54	R87	R62	R99	
DVB	0R	NA	0R	NA	
SIRIUS	NA	0R	NA	0R	

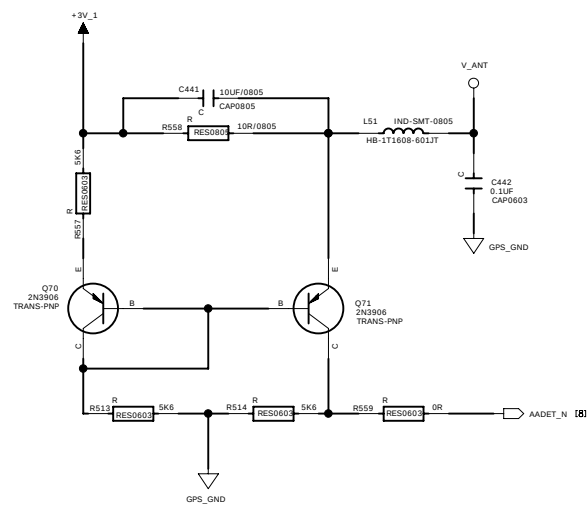
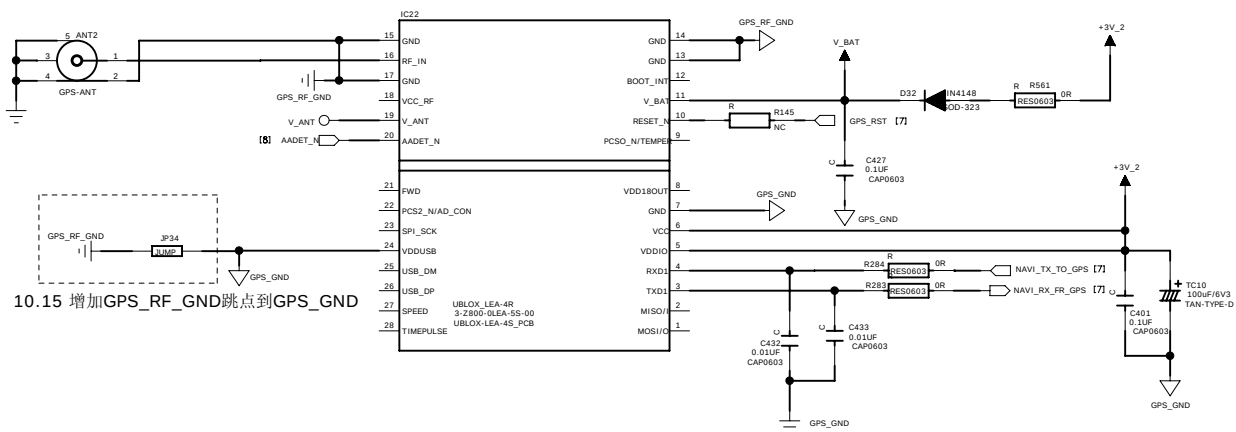
10)

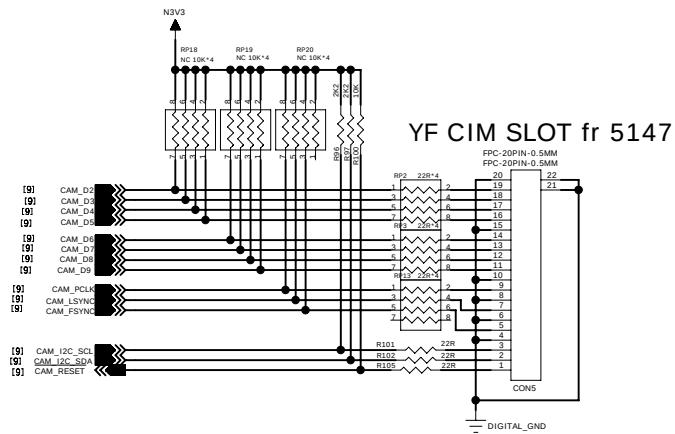
11)

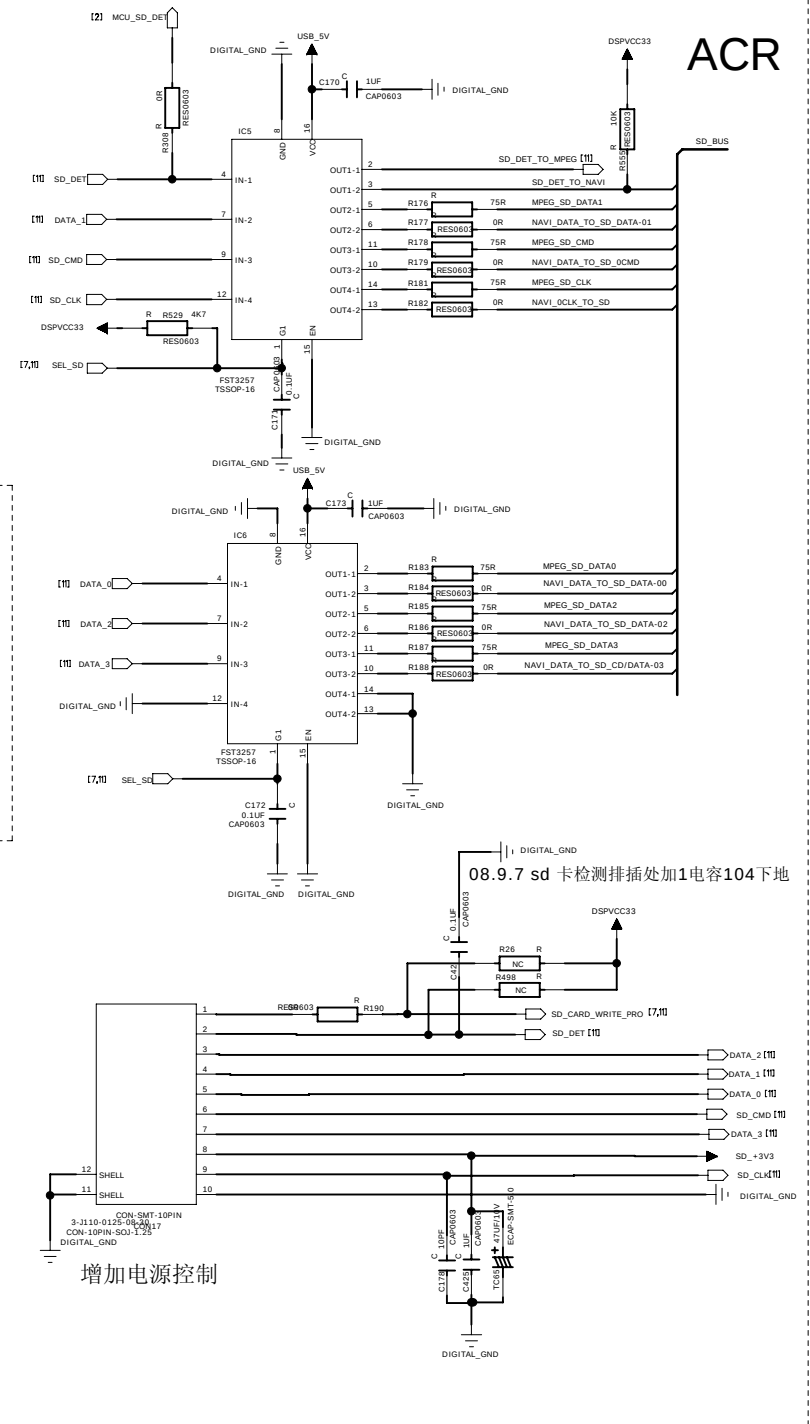
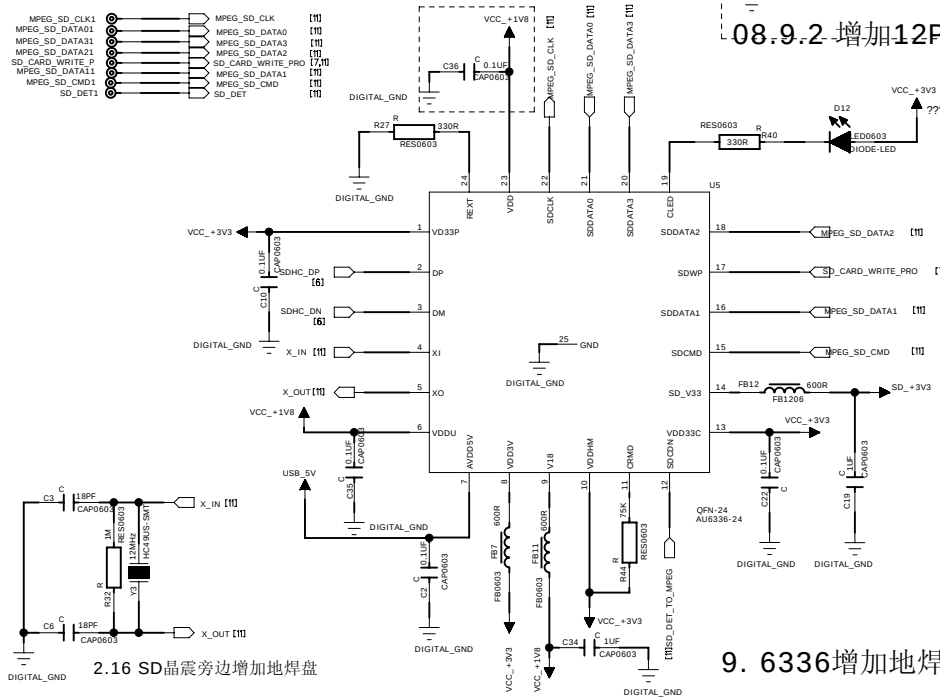
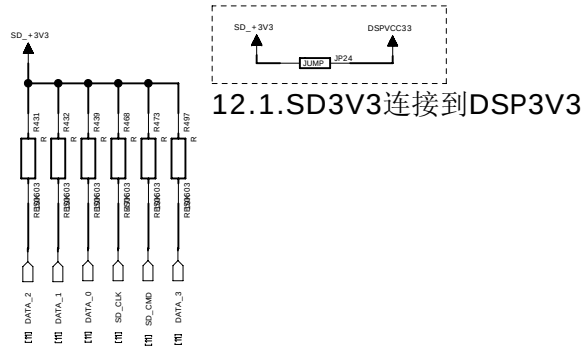
[6,7] USB_SEL2

[7,13] XM_DT_RST

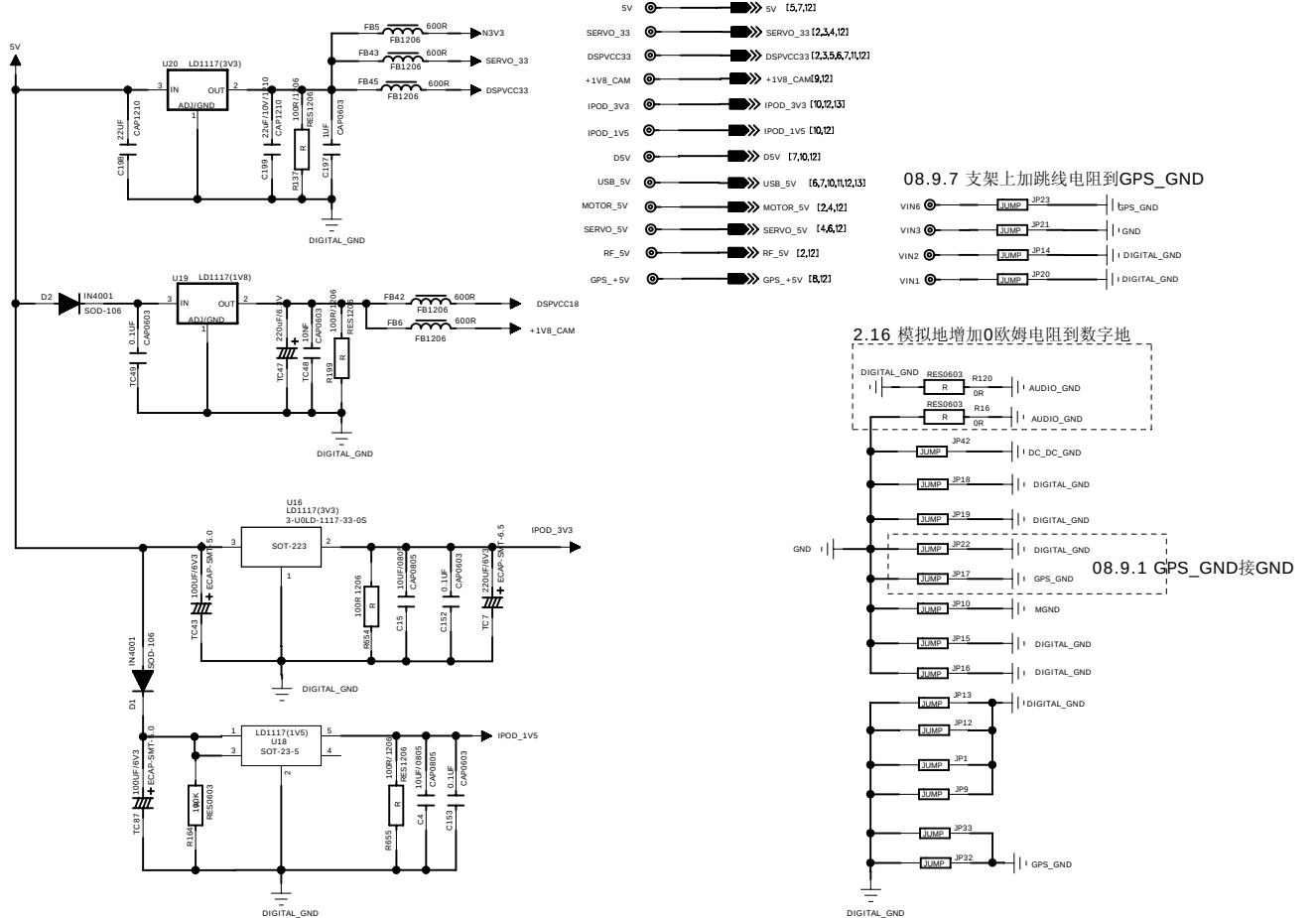
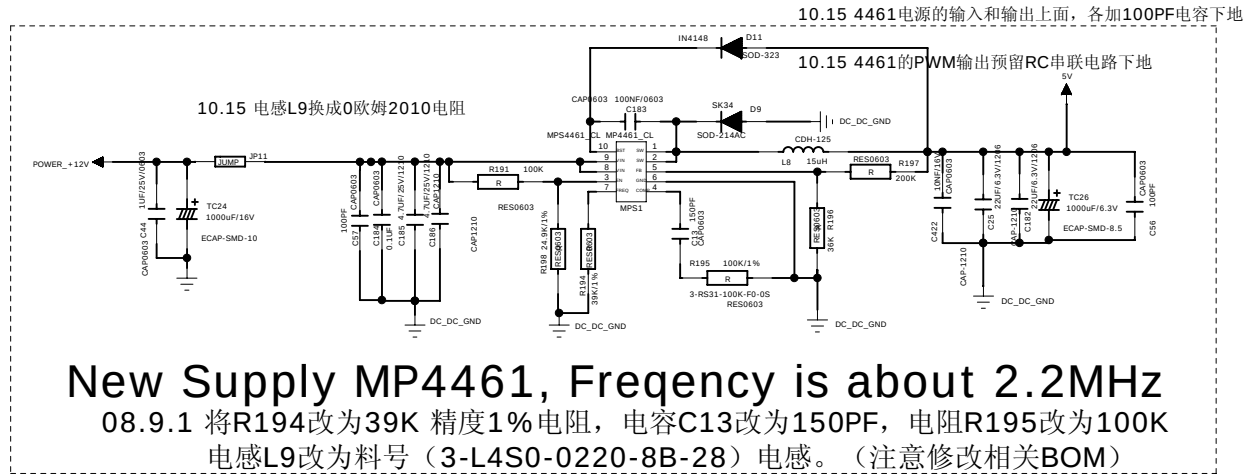
变更: Change core1_gnd to digetal_gnd



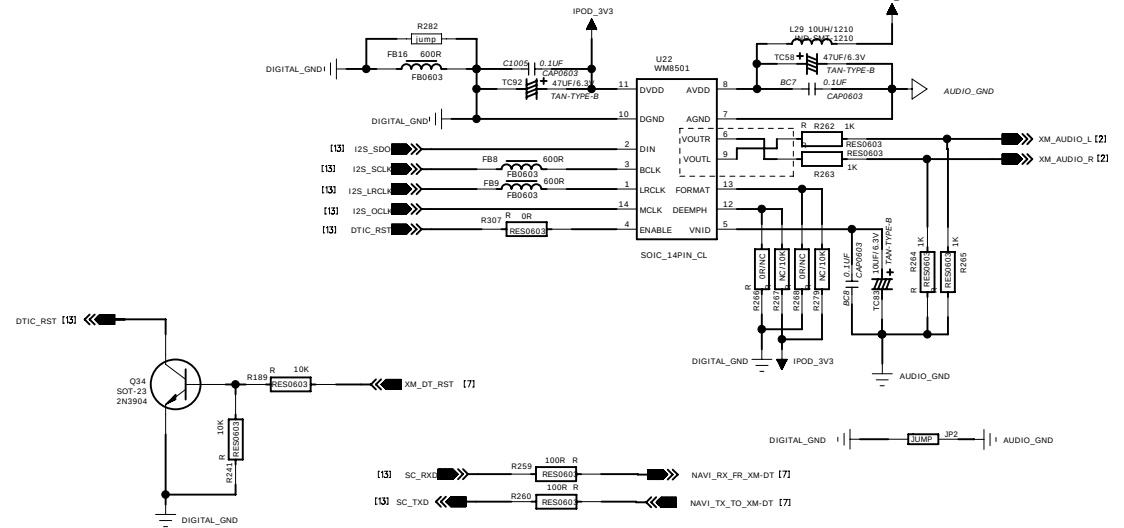
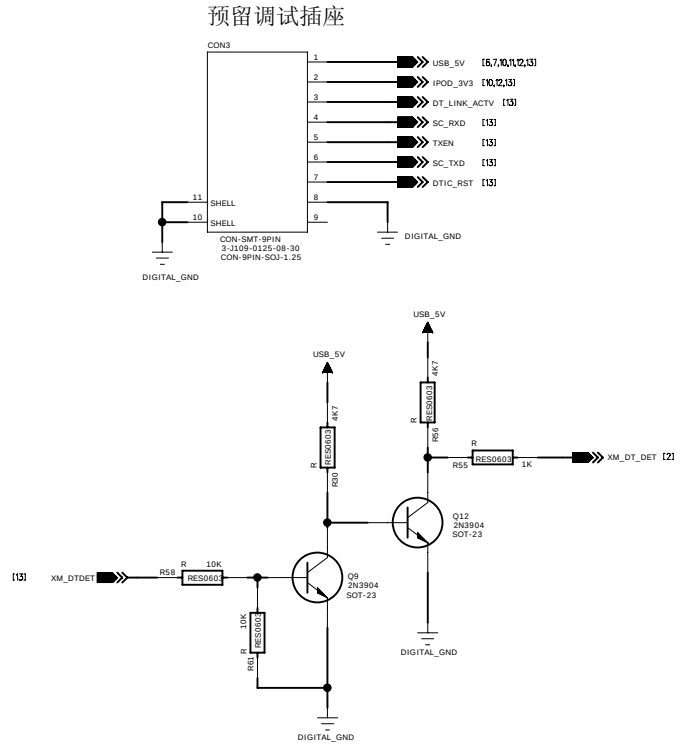




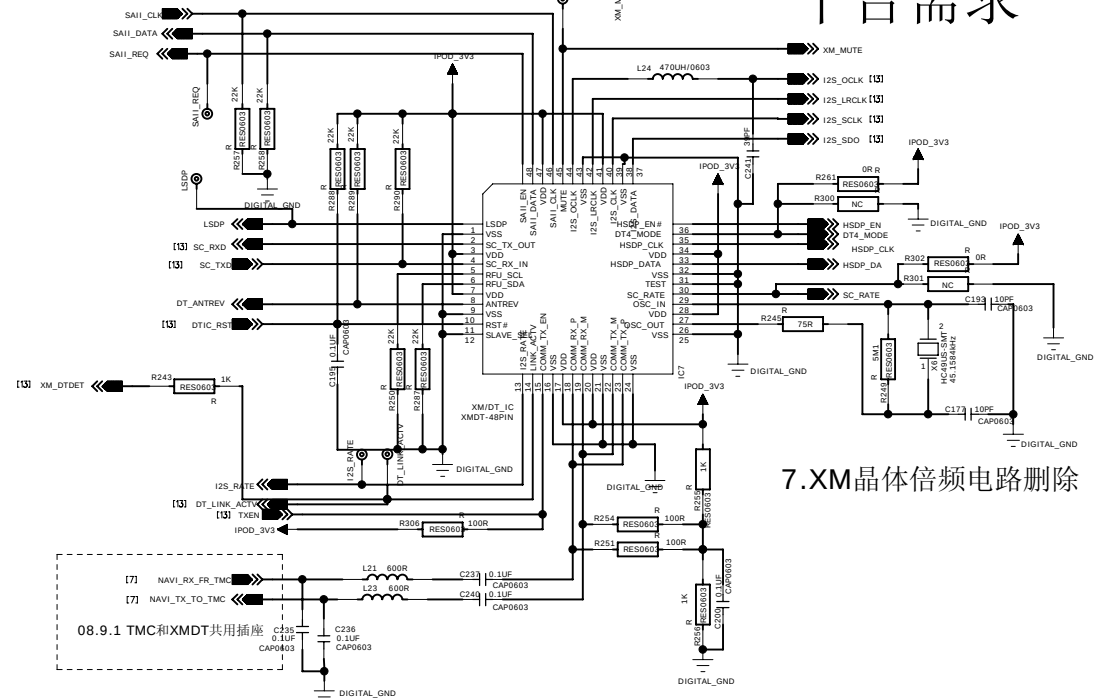
9. 6336增加地焊盘,断开DSP3.3V供电.6336SD卡检测放在开关后面



12.9 对调8501左右声道



平台需求



7.XM晶体倍频电路删除

变更: Change xm_gnd to digetal_gnd
2008-9-6

REPAIR INSTRUCTION

NO.	Defect item	Defect description	Reason Analysis and Countermeasure
1	不通电 Can not power on		1.查18PIN电源插座有无PIN脚错位 Check whether the power supply socket(18PIN) is broken or not? 2.查整机有没有MCU5V Check whether the voltage of power supply for MCU is 5V or not? 3.MCU不良 MCU defect
2	触摸无作用 without touch function	1.时有时无 Sometimes 2.一直无作用 No function all along	1.到TFT板的52PIN排线是否插好 Check the connection of 52PIN flexible wire on the TFT board. 2.TFT板上CON5(52PIN)插座是否假焊或虚焊 Check the socket on the TFT board (52PIN) whether there is false solder or inveracious soldering phenomena 1.触摸屏的不良 Touch panel defect 2.TFT板上CON20的4PIN排线是否插好 Check the connection of 4PIN(CON20) flexible wire on the TFT board is well or not. 3.导航板是否工作正常 Check whether the NAVI board work normally or not.
3	不进碟 can not insert the Disk	1.不稳定 Instability 2.一直不进碟 can not insert the disk all along	1.机芯到主板52PIN排线有无安装错位 Check whether the connection wire of 52PIN between the mechanism and main board is fixed well or not. 2.碟口有无遮挡物 Check whether the disc port is blocked or not. 3.机芯不良 DVD Mechanism broken 1.52PIN插座虚焊或排插松脱 The Sockets (52PIN/20PIN) Become flexible . Or there is false solder phenomena 2.进出碟驱动马达IC--U401不良 Check whether the close and open disk driver IC--U401 work normally or not. 3.MCU不良 MCU is broken.
4	AUX IN性能不良 AUX IN performance defect	1.无视频输出 Without video output 2.无声音输出 Without audio output	1.检查视频线是否良好，排插是否假焊和连锡 Check whether the video line is ok or not? Confirm the socket whether there is false soder or bridging solder phenomena 2.检查视频信号经过的IC是否工作正常 Check whether the IC related with AUX IN video signal works well or not. 1.检查AUX IN经过的IC是否出现了假焊和虚焊的现象 Check the IC related with AUX IN whether there is the False Solder and Inveracious Soldering 2.检查功放的供电电压是否正常和各输入、输出信号脚有无信号输入或输出，判断IC本身是否OK Check whether the power supply voltage of Amplifier is normal or not,also confirm the PINs of input/output signal whether there is input/output signal . 3.检查ASP的电压是否正常，和各输入、输出信号脚是否有无输出。 Check whether the voltage of ASP is normal or not,also confirm the PINs of input/output signal whether there is input/output signal . 4.检查静音电路是否正常 Check the mute circuit is normal or not?
5	收音性能不良 FM/AM performance defect	1.收音不停台 can not stop the reception	1.检查匹配器是否正常工作 Check whether the work of matcher is normal or not? 2.收音天线不良 Antenna defect 3.收音TUNER的供电不良或是TUNER本身的不良 The power supply of Tuner defect or Tuner itself defect.

NO.	Defect item	Defect description	Reason Analysis and Countermeasure
6	刹车线无作用 Packing line without function		1.检查刹车线是否不良 Check whether the Packing Line is defective or not? 2.检查刹车检测电路是否正常 Check whether the detecting circuit of brake is normal or not 3.检查MCU是否不良（检测脚） Check the MCU is ok or not
7	白屏 White Display	屏幕为白色,无任何图像显示 The screen is white ,without any video	1.检查TFT板上CON7106排线是否插好, Check the Connection of socket (CON7106) on the TFT board 2.确认各供电电路的电压是否正常,特别是电感是否断路 Confirm whether the voltage of power supply circuit is normal or not? Especially ,confirm whether the inductance is open circuit or not? 3.检查TFT板IC TB1318 是否有虚焊、假焊、烧坏等现象,是否工作正常 Check the IC TB1318 on the TFT board whether there is the False Solder (Cold), Inveracious Soldering, whether work normally or not. 4.检查52PIN排插是否插好,或其管脚有无虚焊和假焊 Check the connection quality of Socket(52PIN) whether there is the false solder or inveracious soldering phenomena 5.检查TFT板是否有VCOM信号 Check TFT board whether there is VCOM signal 6.检查导航板是否工作正常 Check whether the NAVI board works normally or not. 7.确认LCD屏本身是否OK Confirm the LCD is ok or not.
8	黑屏 Black Display	1.整机完全黑屏背光没有被点亮 --black display --the backlight can not be lighten. 2.整机黑屏,但背光被点亮,整机线路输出正常 --Black display --The backlight is lighted --The line out is normal	1.检查TFT板上CON4排插是否插好,或插座有无连锡 Check the connection quality of the CON4 on the TFT board,confirm the socket whether there is bridging solder phenomena 2.检查TFT板上DC/DC IC2481是否工作正常. Check whether the DC/DC IC2481 works normally or not. 4.检查TFT板CON4电压输出是否正常(10V) Check whether the voltage(10V) of the CON4 is ok or not. 5.液晶屏坏 LCD is broken 6.检查整机板与TFT板的连接FFC线是否完整 Check the FFC connection between TFT board and mainboard , 1.测量整机TFT板的VB5V, VCOM (-10V) , TFT15V是否正常, Measure the VB(5V),VCOM (-10V) , TFT15V of TFT is normal or not? 2.检查整机板与TFT板的连接FFC线是否完整,排插是否有无假焊和虚焊、连锡的现象 Check the FFC connection between TFT board and mainboard ,and confirm whether there is false solder and inveracious soldering and bridging phenomena 3.TFT TB1318不良 TB1318 of TFT defect 4.检查MTV018的TFT_CTL信号是否正常 Check the TFT-CTL signal of MTV018 is normal or not? 5.TFT板IC TB1318的总线信号是否正常,应为一脉冲信号 Check the signal of IC TB1318 on the TFT board is normal or not? It should be pulse signal 6.液晶屏坏 LCD Broken
9	偏色 colour deflection	整机的显示少某种颜色. Some colour didn't be displayed	1.检查整机板与TFT板的连接FFC线是否完整 Check the FFC connection between TFT board and mainboard 2.检查整机的R.G.B有信号是否对地短路 Check whether the R.G.B.signal is kept short circuit status or not. 3.显示效果未调好,可重新调整 The display impact is not adjusted well ,need readjust 4.屏坏 LCD is broken
10	花屏 error screen display		1.检查排插有无连锡,假焊、虚焊和排线有无损坏 Check the socket whether there is the false solder and inveracious soldering, and inspect the flexible wire is broken or not. 2.检查供电电路的电压输出是否正常 Check the voltage output of power supply circuit is normal or not? 3.检查PLL电路的频率是否同步 Check the frequency of PLL circuit is synchro or not? 4.检查TFT屏的晶振是否正常起振 Check whether the Crystal Oscillator circuit is normal or not

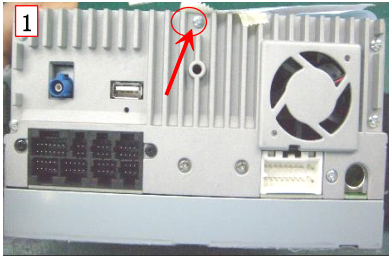
NO.	Defect item	Defect description	Reason Analysis and Countermeasure
11	遥控无作用 Without remote control function	按遥控器，主机没有相应并执行相应动作 Press the remote control, the unit didn't implement corresponding function	1取下遥控器的电池，用万用表检查是否有电。 Dismantle the battery from the remote control and check whether there is electricity with Multimeter 2.用好的整机确认遥控器是否有作用。 Confirm whether the work of remote control is normal or not 3.检查KEY板与主板的20PIN排线是否有破损，接触是否可靠。 Check the connection quality (20PIN flexible wire)between KEY board and Mainboard,
12	不读碟 Can not read the disk		1.机芯保护焊点是否去净 Confirm whether the protected solder point is cleaned up or not? 2.检查52PIN排线是否插好，或排线是否压紧 Check the connection of 52PIN flexible wire 3.机芯不良 DVD Mechanism defect 4.检查解码是否正常工作 Check whether the MPEG IC works normally or not.
14	不读IPOD/USB Can not read the IPOD/USB		1.检查USB连接线是否可靠 Check the connecting of usb is ok or not. 2.检查USB供电是否正常 Check the power supply(5V) of USB is ok or not. 3.检查IC3, IC9是否工作正常 Check whether the IC3 and IC9 works normally or not. 4.检查IPOD复位电路是否工作正常 Check the reset circuit of IPOD works normally or not. 5.检查X1, X3工作是否正常 Check whether the X1 and X3 work normally or not.
15	导航工作异常 Navi can't work normally.		1.确认导航板是否安装到位 Check the location of Navi board is ok or not. 2.确认导航板供电是否正常 Check the powr supply of Navi board is ok or not. 3.确认导航板各串口通信是否正常 Check the uart communication works normally or not. 4.确认导航板音视频信号是否正常 Check the video and audio signals are ok or not.
16	蓝牙无法连接 Bluetooth can't connect.		1.检查蓝牙天线是否连接正常。 Check the bluetooth antenna is connected ok or not. 2.检查蓝牙供电是否正常。 Check the power supply of bluetooth is ok or not. 3.检查蓝牙通讯是否正常。 Check the bluetooth communication is correct or not. 4.确认蓝牙手机是否支持连接。 Check the bluetooth phone is supported or not.
17	蓝牙模式整机无声音输出 No output under bluetooth mode		1.检查蓝牙模块工作是否正常。 Check the bluetooth module work correctly or not. 2.检查IC17工作是否正常。 Check the IC17 work correctly or not. 3.检查蓝牙手机工作是否正常。 Check the bluetooth phone work correctly or not.
18	MIC无声音输出或声音小 There is no or small output of the MIC.		1.检查MIC两根线是否虚焊、连锡或焊反。 Check MIC wire whether there is the false soldering or reverse soldering. 2.检查MIC是否损害。 Check the MIC is ok or not. 3.检查蓝牙模块工作是否正常。 Check the bluetooth module work correctly or not.
19	HD Radio 连接不上 Can not connect with the HD Radio		1.检查HD Radio供电是否正常。 Check the supply of the HD Radio is ok or not. 2.检查HD Radio与导航通讯是否正常。 Check the communication between HD Radio and Navi is correct or not. 3.检查HD连接线是否损坏。 Check the HD wire is ok or not.

NX500 Disassembly instruction

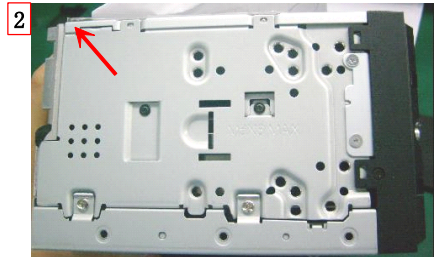
CNE-8215B-CL 拆机流程

一、面板组件拆解

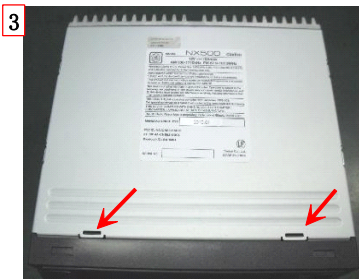
Dismantle panel subassembly



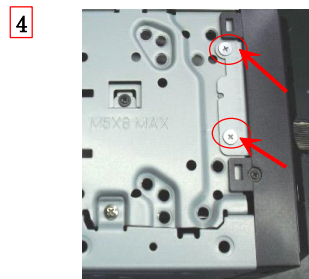
先拆后盖1PCS螺钉；
Remove the screw



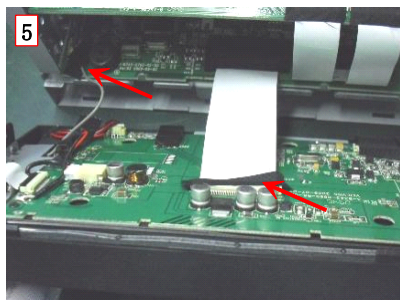
用镊子扳起顶盖两侧后部；
Pull the back of the top cover with forceps



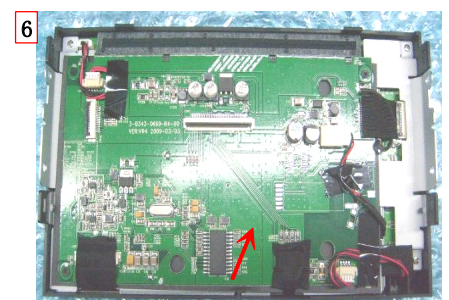
再将顶盖前部脱出面板卡扣即可取下顶盖；
Take the coping apart



用电批旋出两侧螺钉共4PCS；
Remove the 4 screws(both sides)

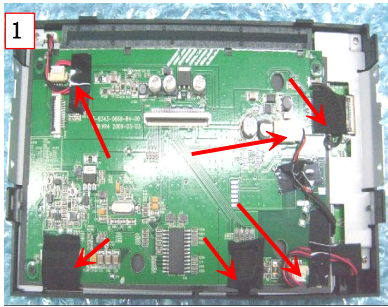


扳开面板组件后先撕下屏连接排线和蓝牙天线连接
线位置的绝缘胶布再拆下排线和蓝牙天线；
Take away the flexible circuit connector and
BT antenna

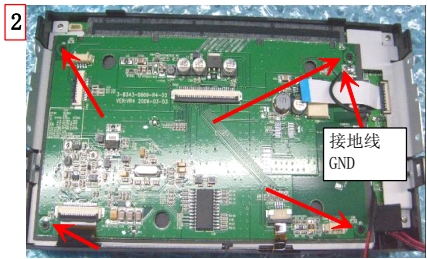


拆下后的面板组件：
The panel subassembly

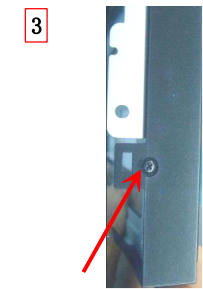
二、屏组件分解
Dismantle the screen subassembly



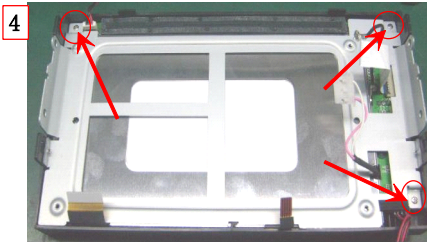
先撕下6处的绝缘胶布和3M胶布，再拆下各排插；
Take away the flexible circuit connector



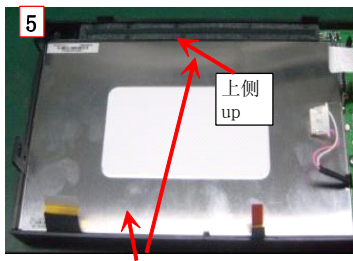
焊开接地线，再用电批拆下固定TFT板的4PCS螺钉，
取出TFT板；
take out the TFT board



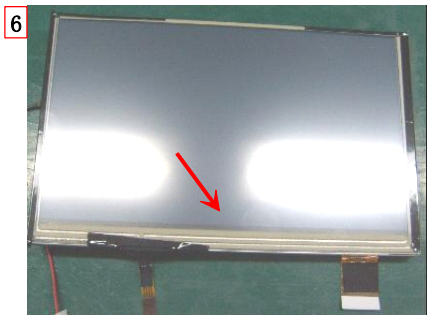
用电批拆下面板左右的2PCS螺钉；
Remove the 2 screws (both sides)



用电批拆TFT支架上面的3PCS螺钉，可拆下TFT支架和
右碟口灯板；
Remove the 3 screws, and take away the TFT
bracket and the right slot LED PCB



先在面板正面顶开屏组件的上侧，再脱开下侧，即可拆
下屏组件；
Push away the screen subassembly from the front
of the panel and disengage at the bottom , and
then take away the screen subassembly



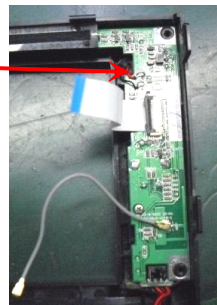
拆开的屏组件
The screen subassembly taken away



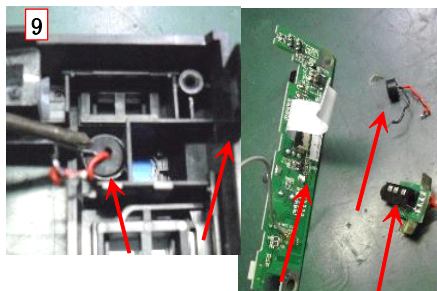
撕开贴屏左右的3M胶布，即可将触摸屏和液晶屏分开，
屏上面贴有4PCS屏垫片
take the touch screen apart from the LCD screen

8

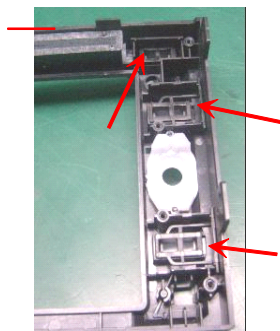
MIC连接



先用烙铁焊下2PCS MIC连接线, 再用电批拆下固定KEY板的
2PCS螺钉，即可拆下KEY板组件和AUX IN 板
Remove mic wire by welding. Remove the 2 screws
used to fix up the KEY board ,and take out the
key board and AUX IN PCB

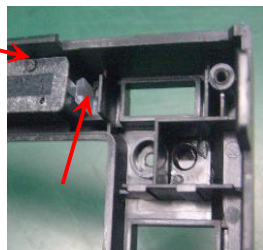
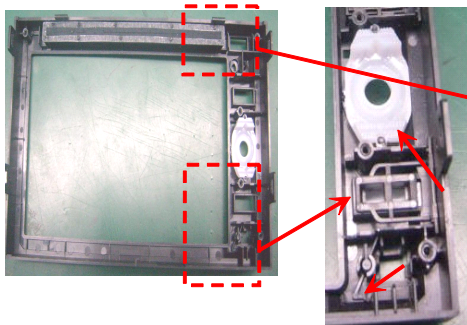


用镊子拆下MIC, 右边为拆下的KEY板和AUX IN板
及MIC组件, AUX IN板背部有压紧用的橡胶垫
The key board and AUX IN PCB and mic_assm.



用镊子压开按键扣位即拆下3个按键
press the buckles of the 3 buttons, and then
remove the 3 screws

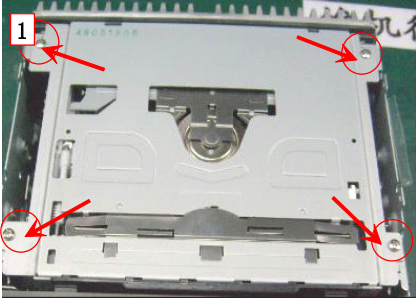
11



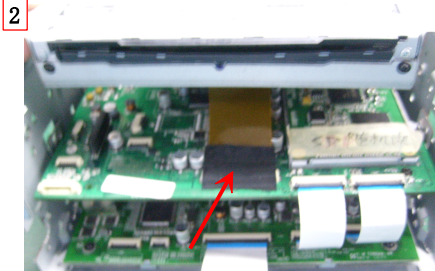
导光圈和复位键碟口灯为铆接固定

三、主机分解

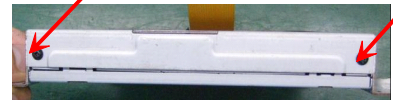
The whole unit disassembly instruction



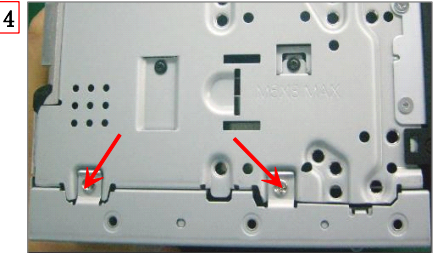
用电批拆下固定机芯支架的4PCS螺钉;
Remove the 4 screws



抬起机芯组件并撕下连接主板的机芯排线绝缘胶布, 再拆下排线
Take the flexible circuit connector apart



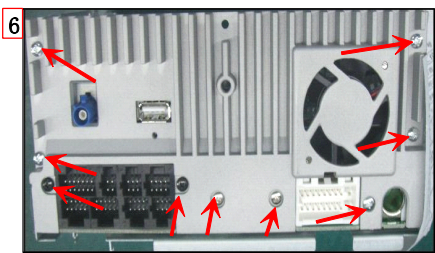
用电批拆下机芯组件的4PCS螺钉, 即可拆下机芯组件:
Remove the 4 screws and then take out the DVD Mechanism Subassembly



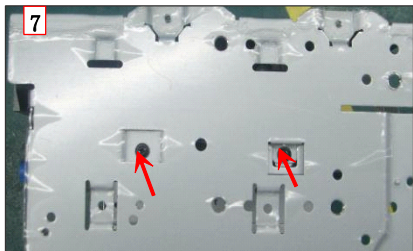
用电批拆下固定底盘的左右4PCS螺钉
Remove the 4 screws (both sides) used to fix up the chassis



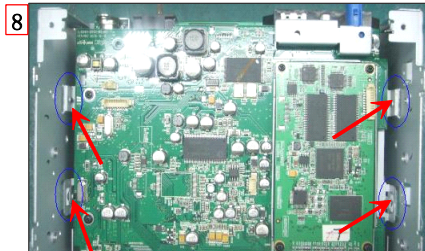
用电批拆下固定底盘底部的1PCS螺钉, 即可拆下底盘
Remove the screws and dismantle the chassis



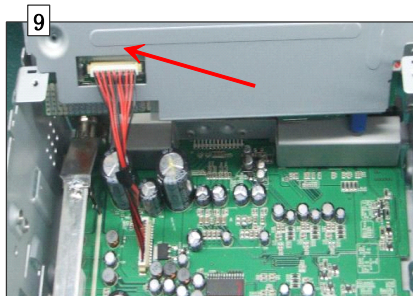
用电批拆下固定散热片的9PCS螺钉, 即可拆下散热片
Remove the 9 screws and then dismantle the heat-sink



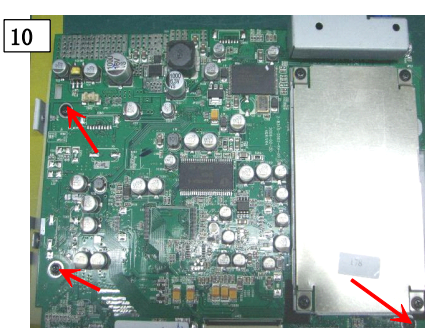
7
用电批拆下左右4PCS螺钉
Remove the 4 screws (both sides)



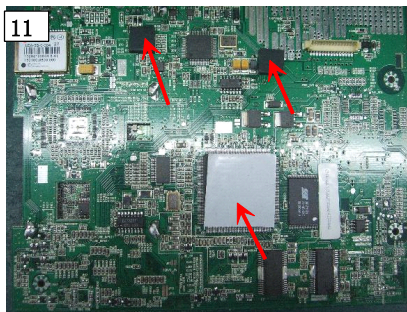
8
向上抬起主板组件，脱开左右4PCS卡扣
put up the MAINBOARD assembly, and make it
disengage the 4 buckles



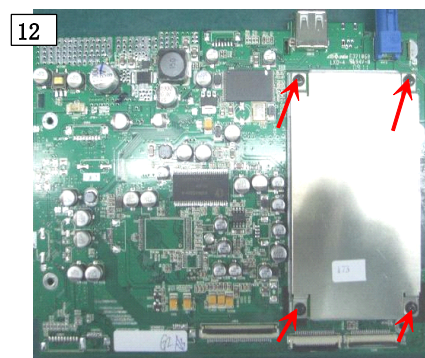
9
抬起主板组件，拆下连接功放板的1PCS条形连接线
Remove the connector



10
用电批拆下中间板托架的3PCS螺钉，并扳开1个卡扣，即可拆下主板组件
Remove the 3 screws and pull 1 buckle, then
take out the MAINBOARD assembly



11
主板背板有1PCS导热硅胶贴到解码IC上，并在图示位置贴上2PCS橡胶垫
Stick the 3 pasterns



12
用电批拆下导航板上的4PCS螺钉，可拆下导航核心板
Remove the 4 screws and then dismantle the NAVI
PCB