DVD PLAYBACK **DVP3500K**

Service

DVP3500K/98

Service Manual

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CLASS 1 LASER PRODUCT

3141 785 36010

Published by by MTC-LX 1111 AV System Printed in The Netherlands Subject to modification

Version 1.0

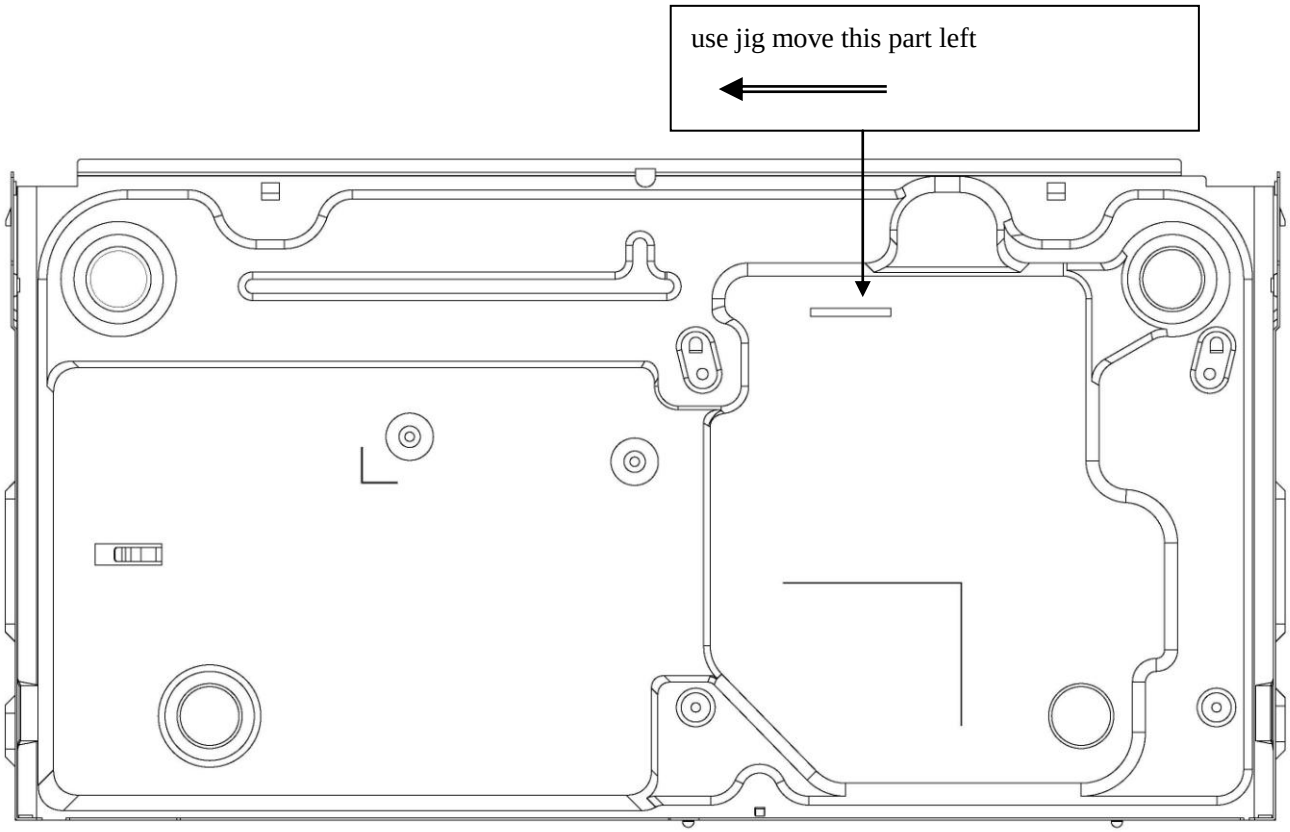
PHILIPS

How to remove the CD manually from the tray

1. Please do as below instruction in case the tray can not be open:

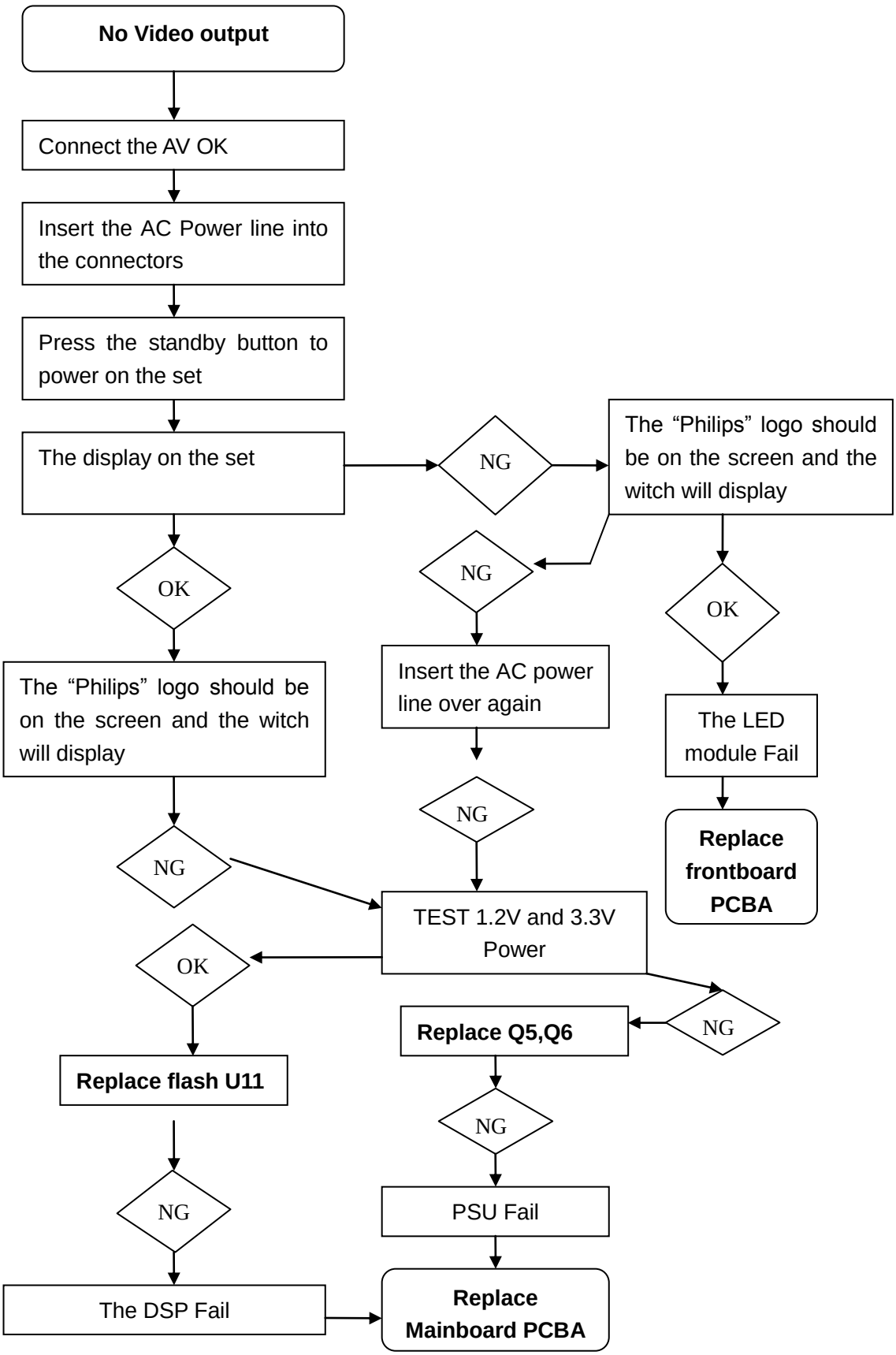
a. Power off the DVD player.

b. Please gently push the guider and wait until the tray comes out(Figure1).

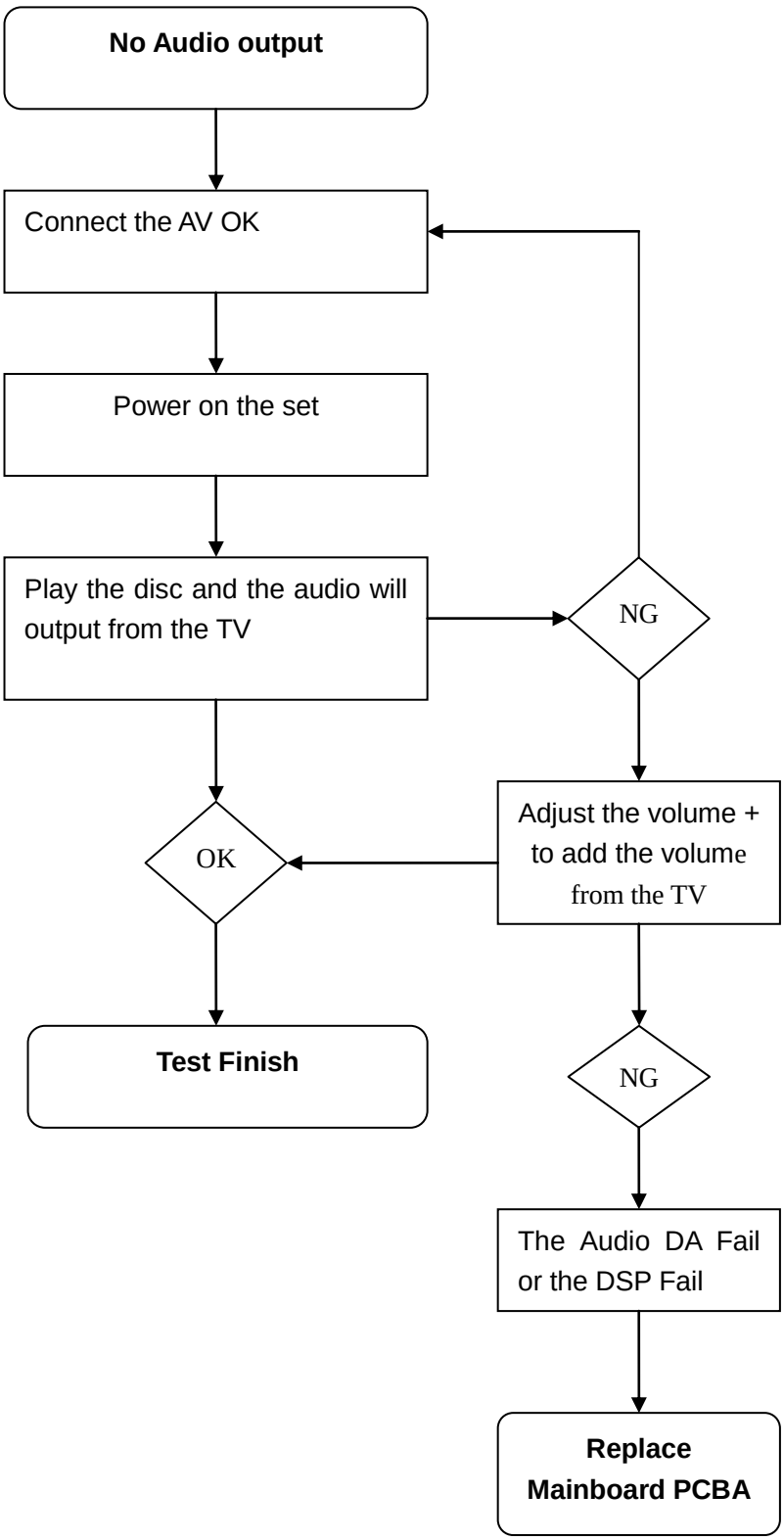


How to check the return Unit

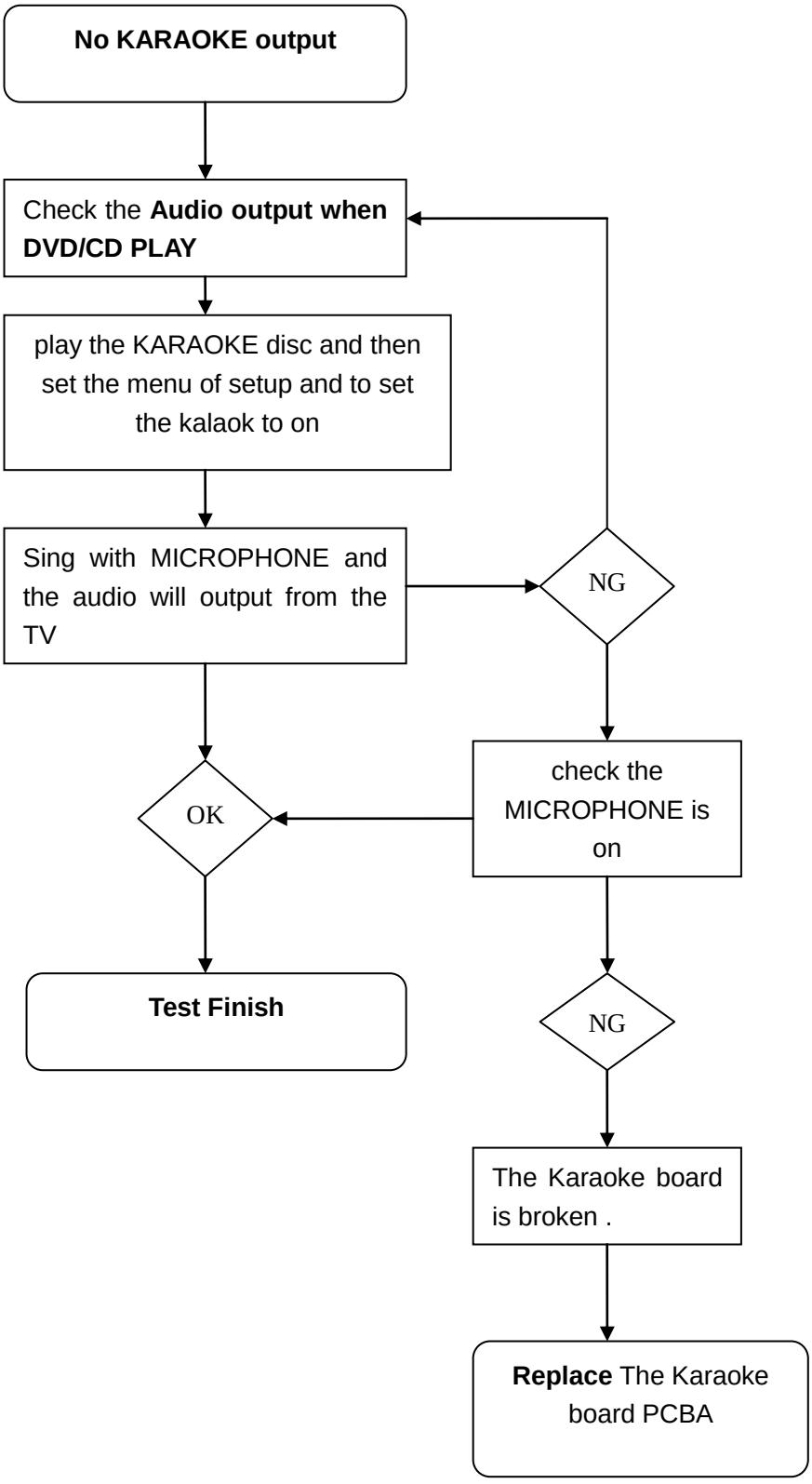
1, No Video output



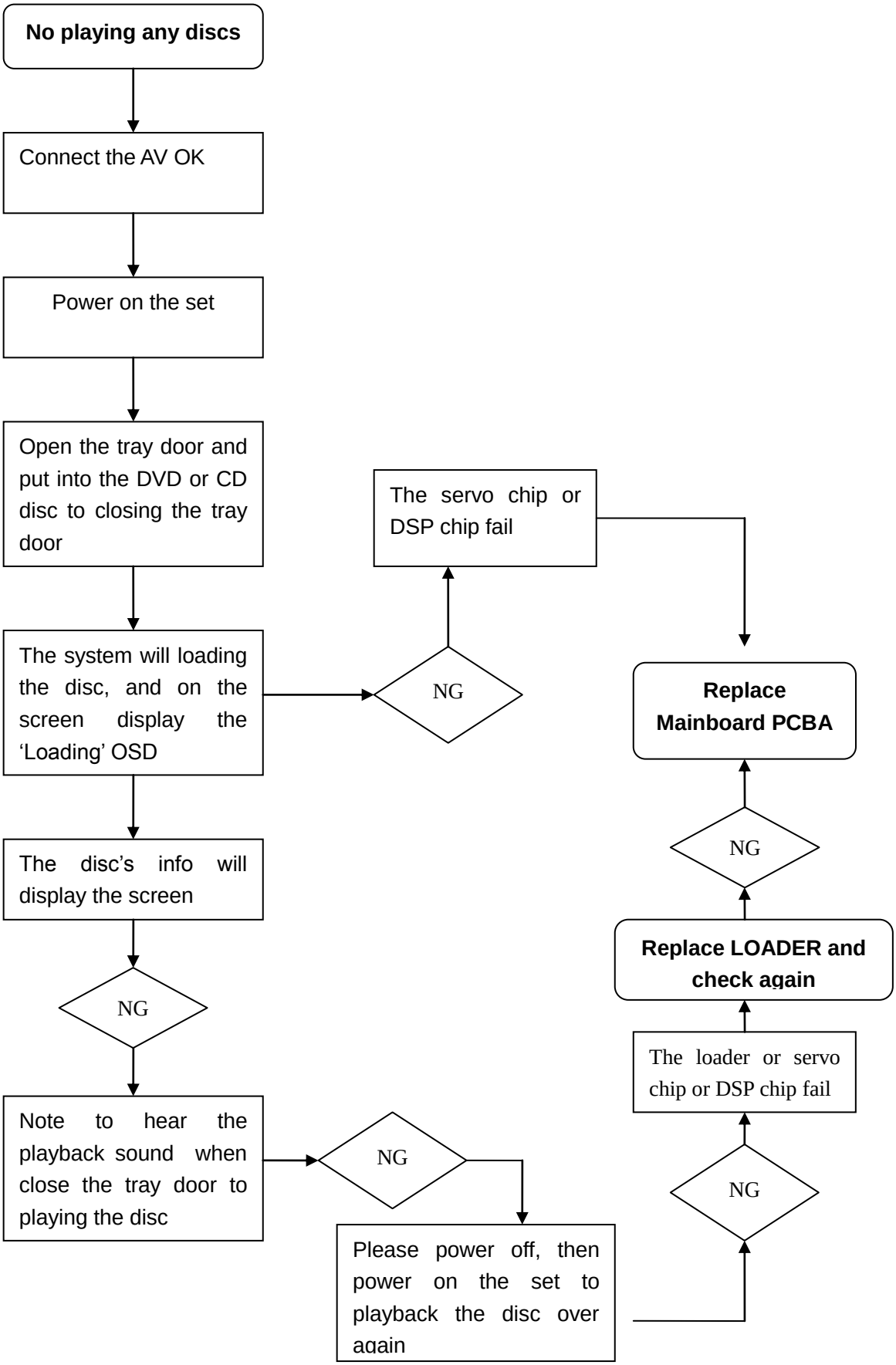
2, No Audio output



3, No KARAOKE Audio output



4, No playing any discs



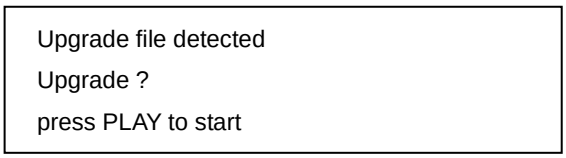
Software upgrade

1. Get the software firmware,the name must be **DVP3500KI_98.BIN**, and all character must be large.

or press SETUP key on the RC,in " Preferences" menu can see the option of "Version info", Then, enter the Version info menu and you can see its upgrade file which shown of File Name

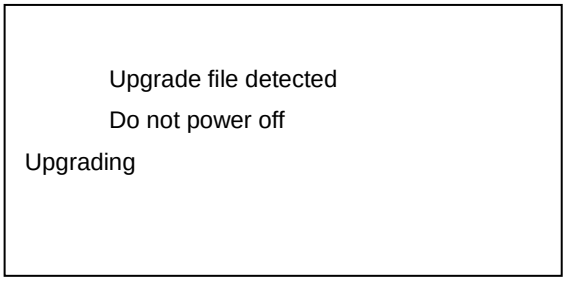
2. Copy the upgrade firmware onto CD disc.

3. Play the firmware CD disc,and the upgrade menu will appear.



4. First Select PLAY button and start to automatically upgrade on the first upgrade menu.

5. Then,the upgrade process will start and appear "Upgrading",please don't power off during this state.



6. During the updating, the tray door is openning,. when the update is complted, the unit will power off and then re-start automatically to close the tray door to play the current disc on the tray.

How to select the right language

(1) **How to change the OSD language**

First, press SETUP key on the RC,in " Gereral Setup" you can see the option of "OSD Language",

Then,press Right key to enter the osd language menu and select language which you want.

(2) **How to change the Audio default language**

First, press SETUP key on the RC,in " Preferences" menu can see the option of "Audio",

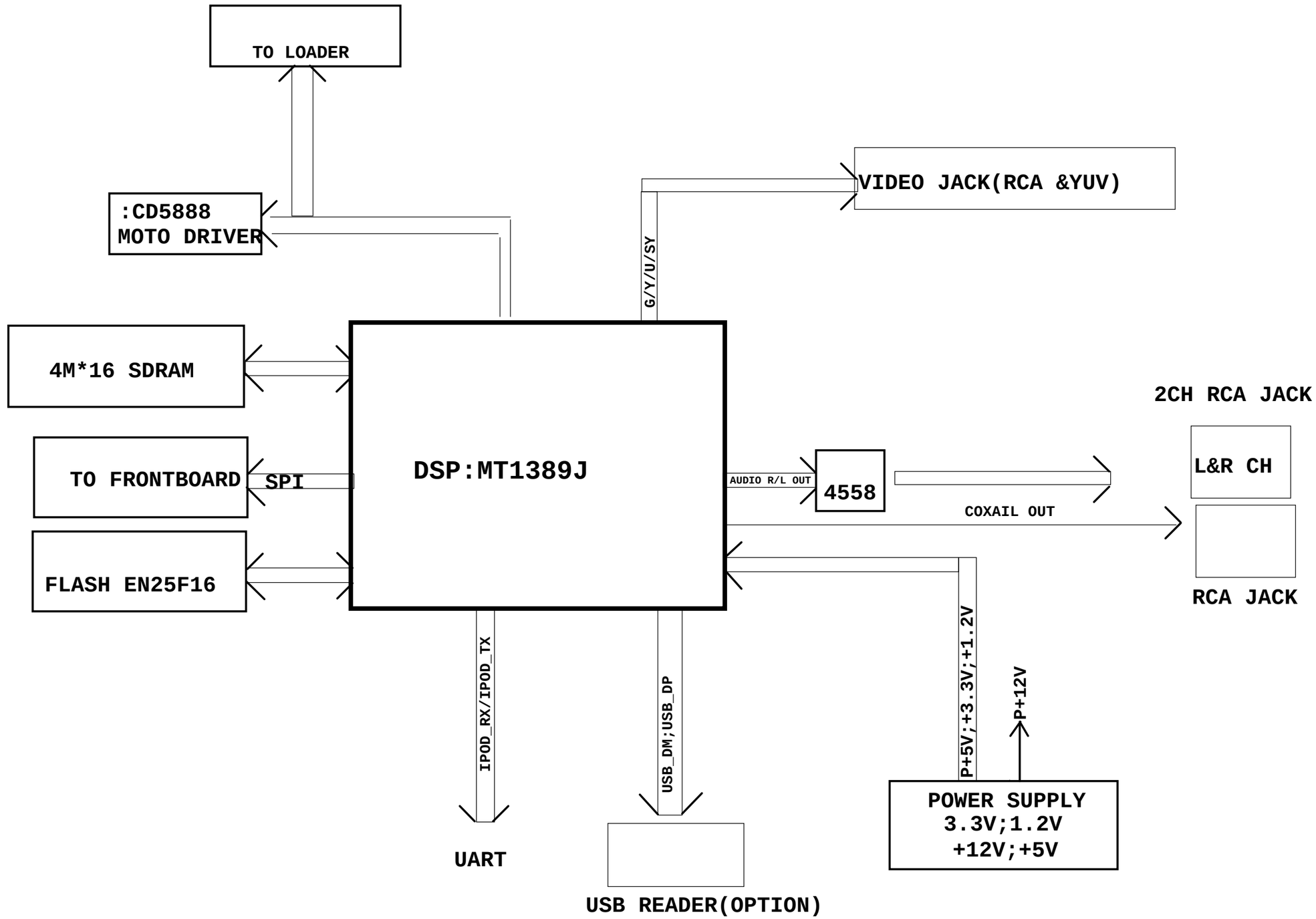
Then,press Right key to select Audio or subtitle language. which you want

(3) **How to change the DVD region code**

First, press SETUP key on the RC,in " Preferences" menu Then, press "138931" key to enter the DVD region code setting menu,it will appear "**region code** 3" ,and press UP or DOWN key to set the region code. Note, "1" means 1 region, "2" means 2 region…. "0" means ALL region.

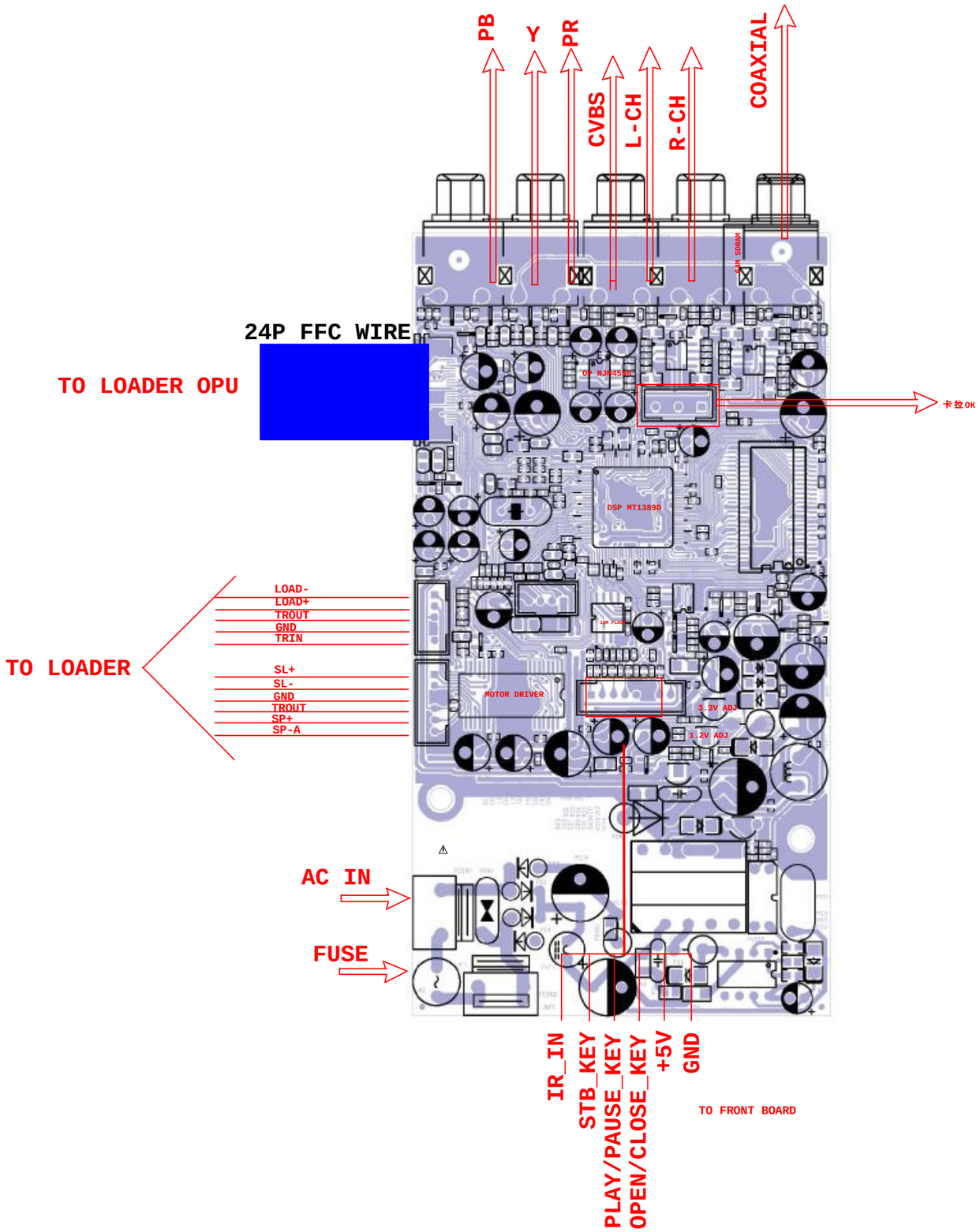
Finally, press SETUP key to exit the setting menu.

9-1

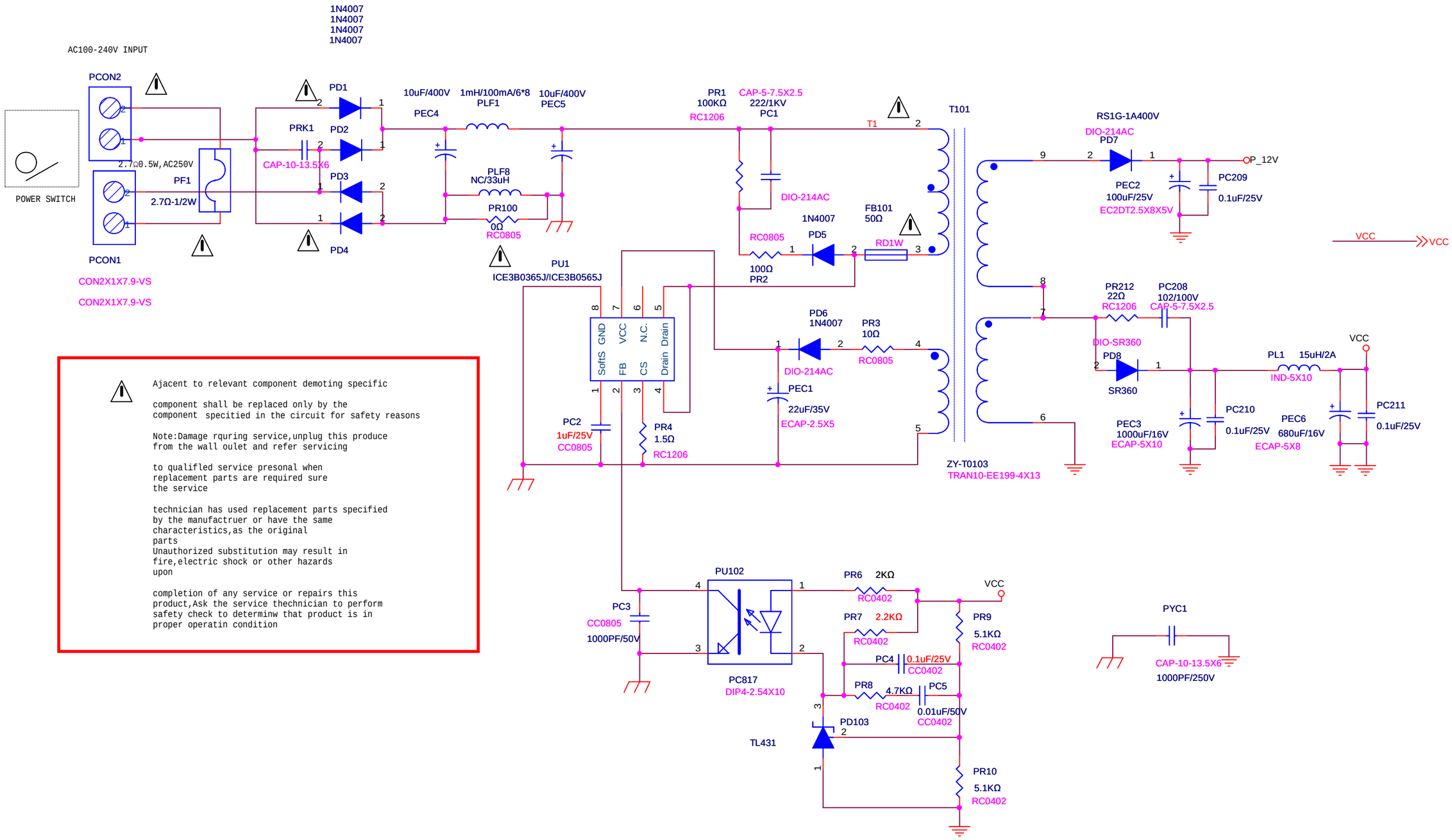

TO LOADER
:CD5888
MOTO DRIVER
VIDEO JACK(RCA &YUV)
G/Y/U/SY
4M*16 SDRAM
2CH RCA JACK
L&R CH
TO FRONTBOARD
SPI
DSP:MT1389J
AUDIO R/L OUT
4558
COXAIL OUT
FLASH EN25F16
RCA JACK
IPOD_RX/IPOD_TX
USB_DM;USB_DP
P+5V;+3.3V;+1.2V
P+12V
POWER SUPPLY
3.3V;1.2V
+12V;+5V
UART
USB READER(OPTION)

9-2

WIRING DIAGRAM



9-3



Ajacent to relevant component demoting specific

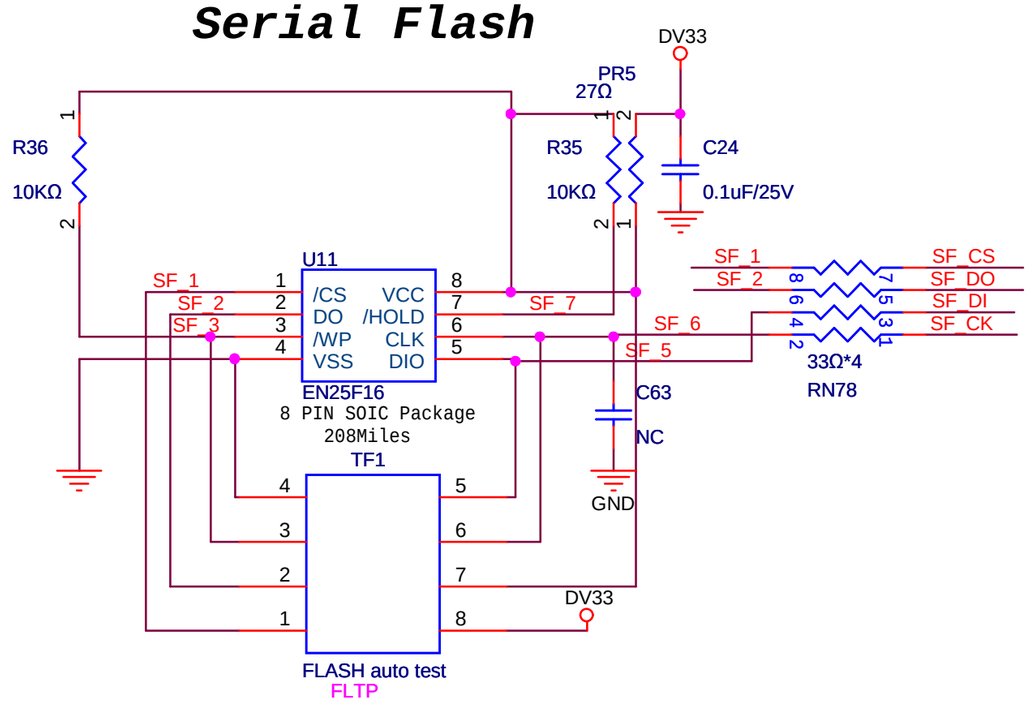
component shall be replaced only by the
component specitied in the circuit for safety reasons

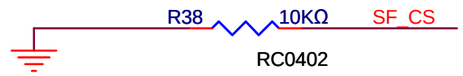
Note:Damage rquring service,unplug this produce
from the wall oulet and refer servicing

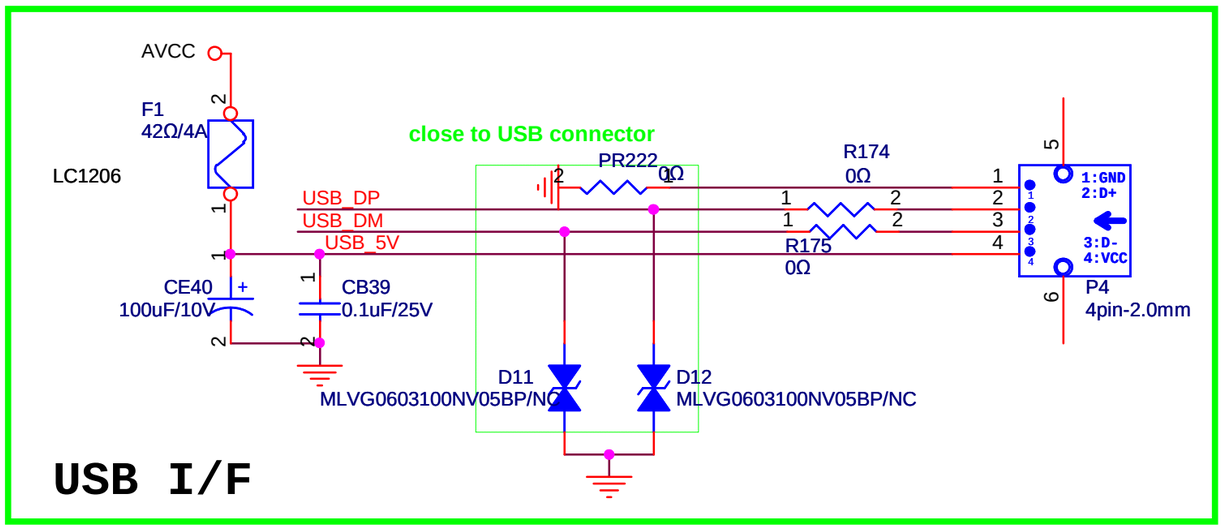
to qualifled service presonal when
replacement parts are required sure
the service

technician has used replacement parts specified
by the manufactruer or have the same
characteristics,as the original
parts
Unauthorized substitution may result in
fire,electric shock or other hazards
upon

completion of any service or repairs this
product,Ask the service thechnician to perform
safety check to determinw that product is in
proper operatin condition







OFF-PAGE CONNECTION

GPIO6 — GPIO6 [2]
GPIO7 — GPIO7 [2]
GPIO8 — GPIO8 [2]
GPIO9 — GPIO9 [2]

MCR I/F

SF_CS — SF_CS [2]
SF_DO — SF_DO [2]
SF_DI — SF_DI [2]
SF_CK — SF_CK [2]

FLASH I/F

USB_DM — USB_DM [2]
USB_DP — USB_DP [2]

USB I/F

DV33 — DV33 [1,2,3,4]
AVCC — AVCC [1,2,4,5]
PWCTRL2 — PWCTRL2 [1]

POWER

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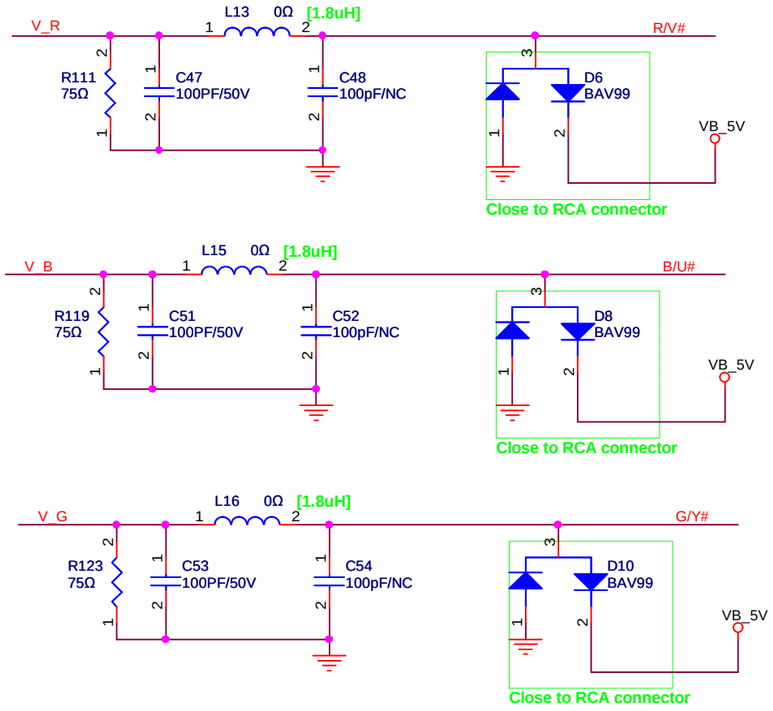
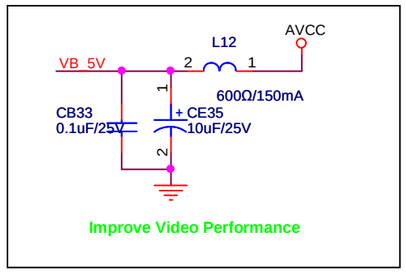
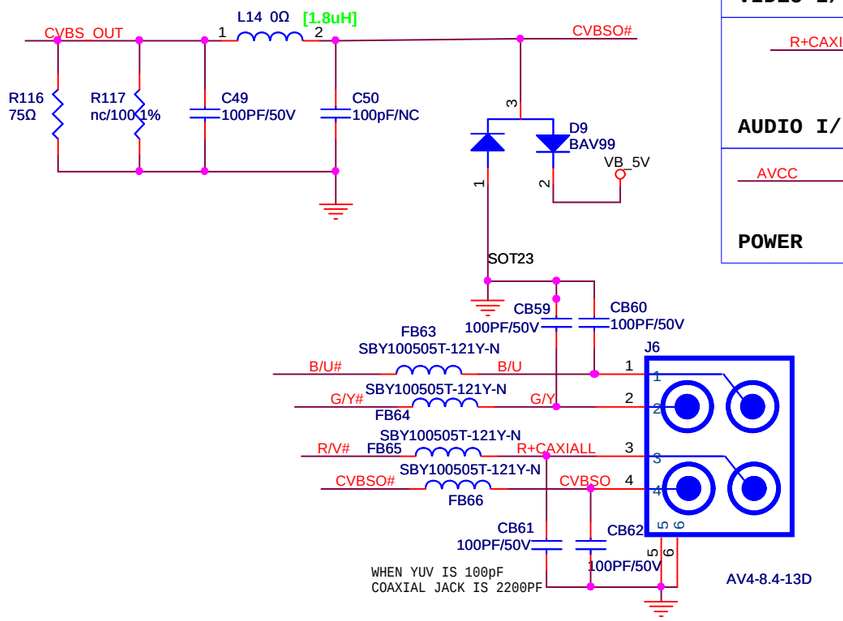
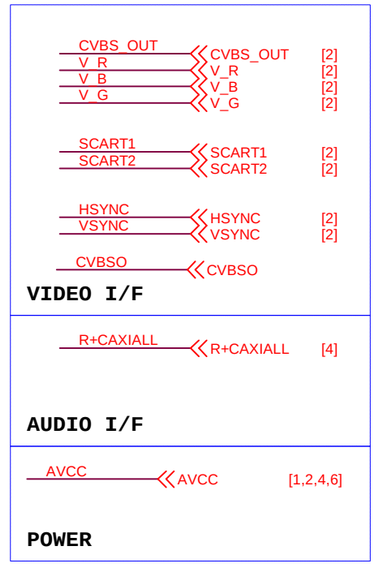
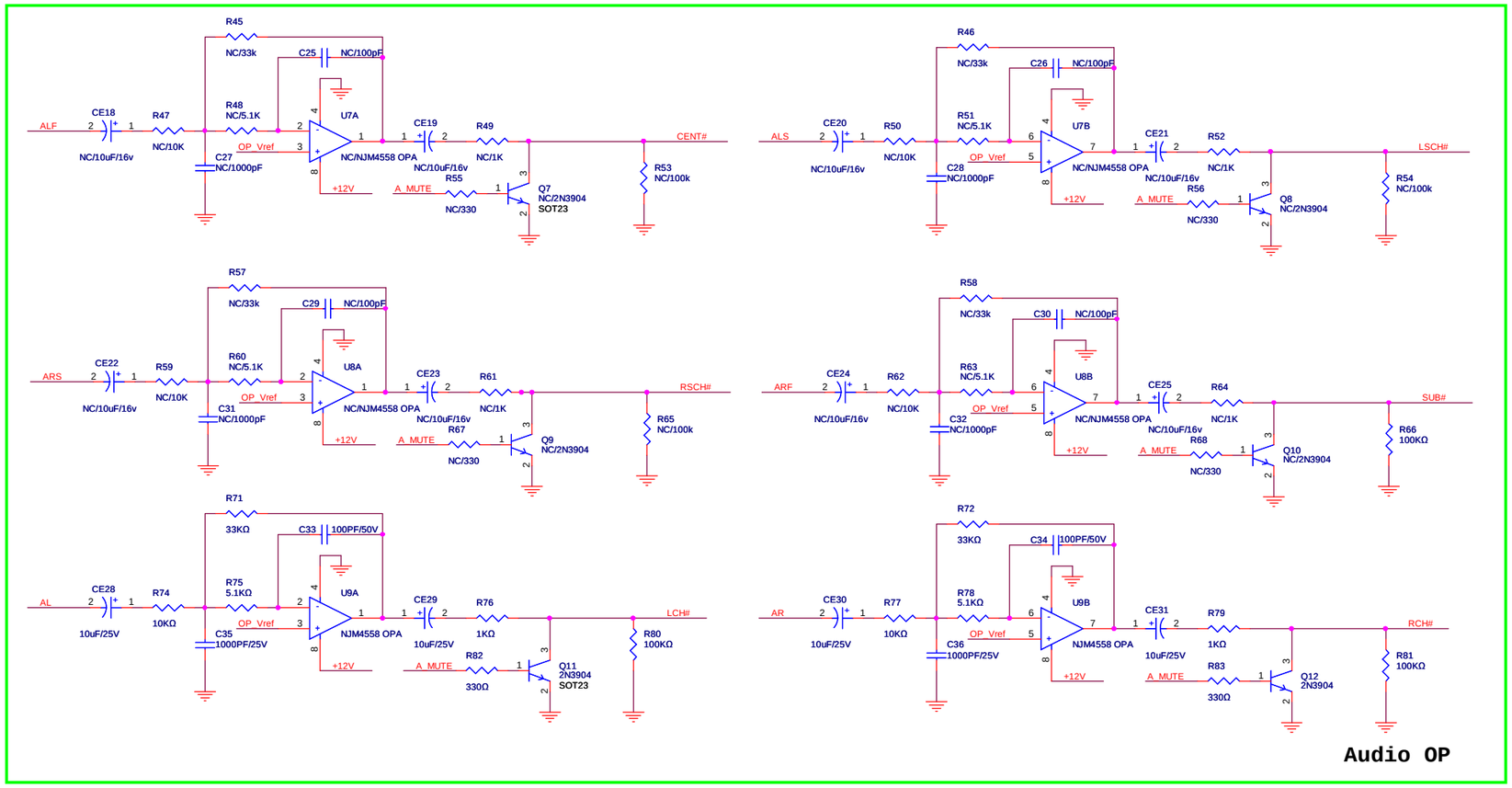
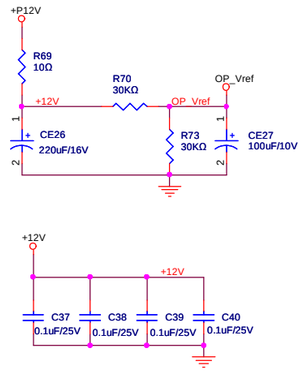

V_R
L13 0Ω [1.8uH]
R/V#
R111
75Ω
C47
100PF/50V
C48
100pF/NC
D6
BAV99
VB_5V
Close to RCA connector
V_B
L15 0Ω [1.8uH]
B/U#
R119
75Ω
C51
100PF/50V
C52
100pF/NC
D8
BAV99
VB_5V
Close to RCA connector
V_G
L16 0Ω [1.8uH]
G/Y#
R123
75Ω
C53
100PF/50V
C54
100pF/NC
D10
BAV99
VB_5V
Close to RCA connector


VB_5V
L12
AVCC
600Ω/150mA
CB33
0.1uF/25V
CE35
10uF/25V
Improve Video Performance


CVBS_OUT
L14 0Ω [1.8uH]
CVBSO#
R116
75Ω
R117
nc/100 1%
C49
100PF/50V
C50
100pF/NC
D9
BAV99
VB_5V
SOT23
CB59
100PF/50V
CB60
100PF/50V
FB63
SBY100505T-121Y-N
B/U#
B/U
J6
G/Y#
G/Y
FB64
SBY100505T-121Y-N
R/V#
FB65
R+CAXIALL
SBY100505T-121Y-N
CVBSO#
CVBSO
FB66
CB61
100PF/50V
CB62
100PF/50V
WHEN YUV IS 100pF
COAXIAL JACK IS 2200PF
AV4-8.4-13D


CVBS_OUT
V_R
V_B
V_G
CVBS_OUT [2]
V_R [2]
V_B [2]
V_G [2]
SCART1
SCART2
SCART1 [2]
SCART2 [2]
HSYNC
VSYNC
HSYNC [2]
VSYNC [2]
CVBSO
CVBSO
VIDEO I/F
R+CAXIALL
R+CAXIALL [4]
AUDIO I/F
AVCC
AVCC [1,2,4,6]
POWER





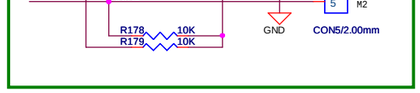
OFF-PAGE CONNECTION

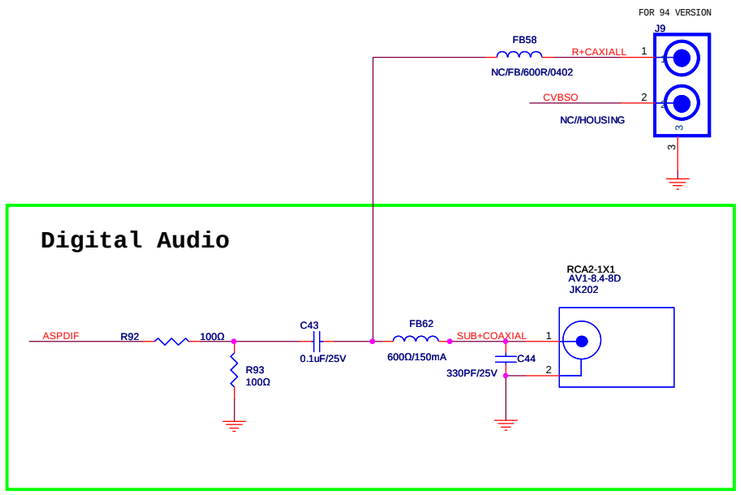
AR	AR	[2]
AL	AL	[2]
ARS	ARS	[2]
ALS	ALS	[2]
ARF	ARF	[2]
ALF	ALF	[2]
ASPDIF	ASPDIF	[2]
AKIN1	AKIN1	[2]
AKIN2	AKIN2	[2]
AUDIO_MUTE	AUDIO_MUTE	[2]
RCH	RCH	[5]
LCH	LCH	[5]
R+CAXIALL	R+CAXIALL	[4]

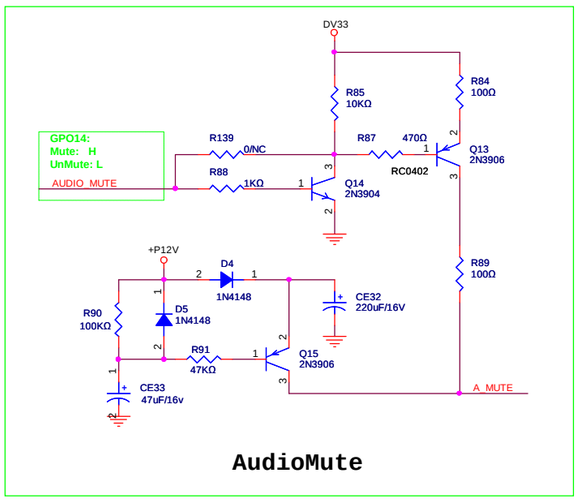
AUDIO I/F

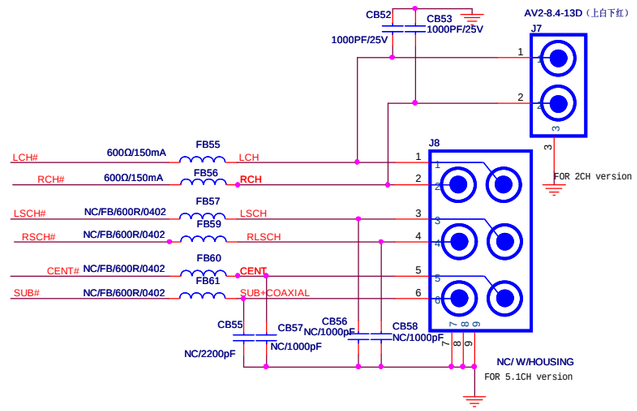
CVBSO	CVBSO	
+P12V	+P12V	[1]
DV33	DV33	[1,2,3,6]
AVCC	AVCC	[1,2,5,6]

Power









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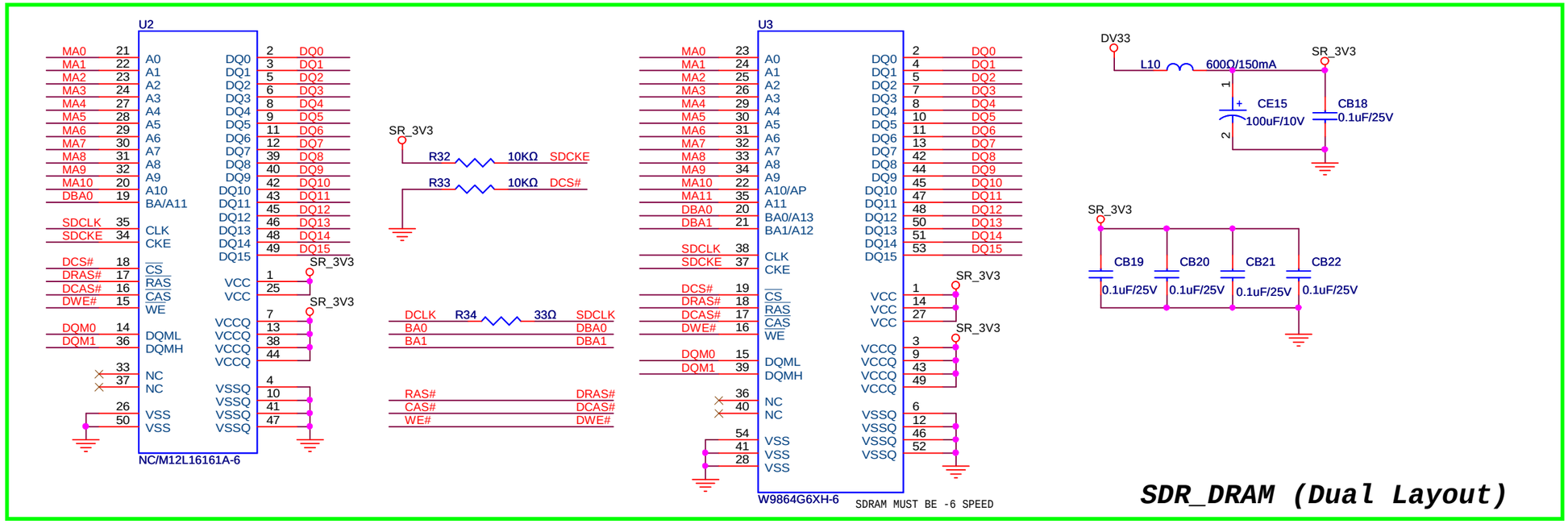
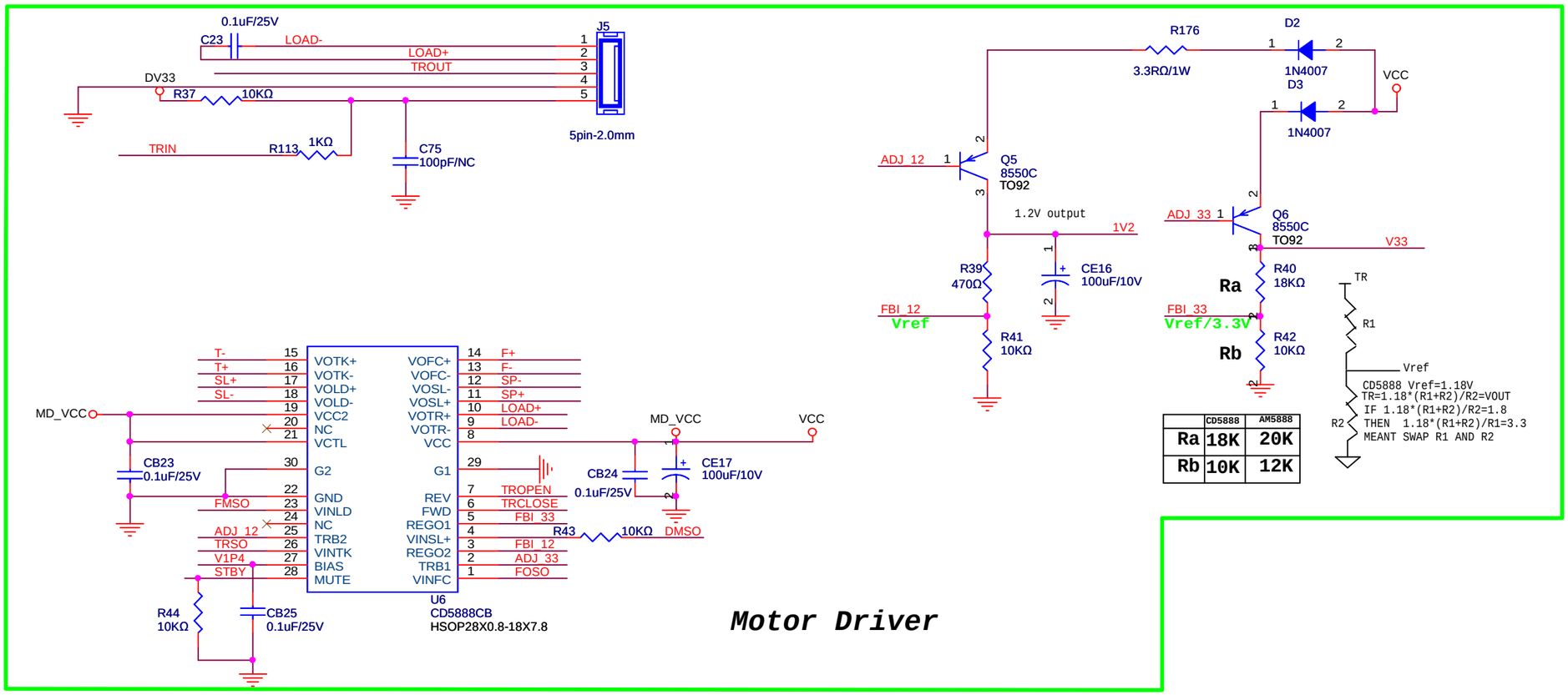




	CD5888	AM5888
Ra	18K	20K
Rb	10K	12K

OFF-PAGE CONNECTION

DRAM I/F
- DQ[0..15] <<>> DQ[0..15] [2]
- MA[0..11] <<>> MA[0..11] [2]
- DQM[0..1] <<>> DQM[0..1] [2]
- BA[0..1] <<>> BA[0..1] [2]
- DCLK, RAS#, CAS#, WE# <<>> DCLK, RAS#, CAS#, WE# [2]

S-FLASH
- SF_CK, SF_CS, SF_DI, SF_DO <<>> SF_CK, SF_CS, SF_DI, SF_DO [2]

SERVO I/F
- STBY, TROPEN, TRCLOSE, TRIN, TROUT <<>> STBY, TROPEN, TRCLOSE, TRIN, TROUT [2]
- T-, T+, F-, F+, SL-, SL+, SP-, SP+ <<>> T-, T+, F-, F+, SL-, SL+, SP-, SP+ [2]
- FOSO, TRSO, FMSO, DMSO <<>> FOSO, TRSO, FMSO, DMSO [2]
- V1P4 <<>> V1P4 [2]

POWER
- DV33 <<>> DV33 [1,2,4,6]
- VCC <<>> VCC [1,2]
- 1V2 >>> 1V2 [2]
- V33 >>> V33 [1,2,4,6]

SERVO RF DeCAP.

close to 89J IC

Crystal

Chip Decap.

RF Reference

SANYO HD6x

Very Important to reduce Noise

MT1389J
No EPAD
LQFP 128
V1.0

MT1389J-DE
LQFP128X0.4-14X14

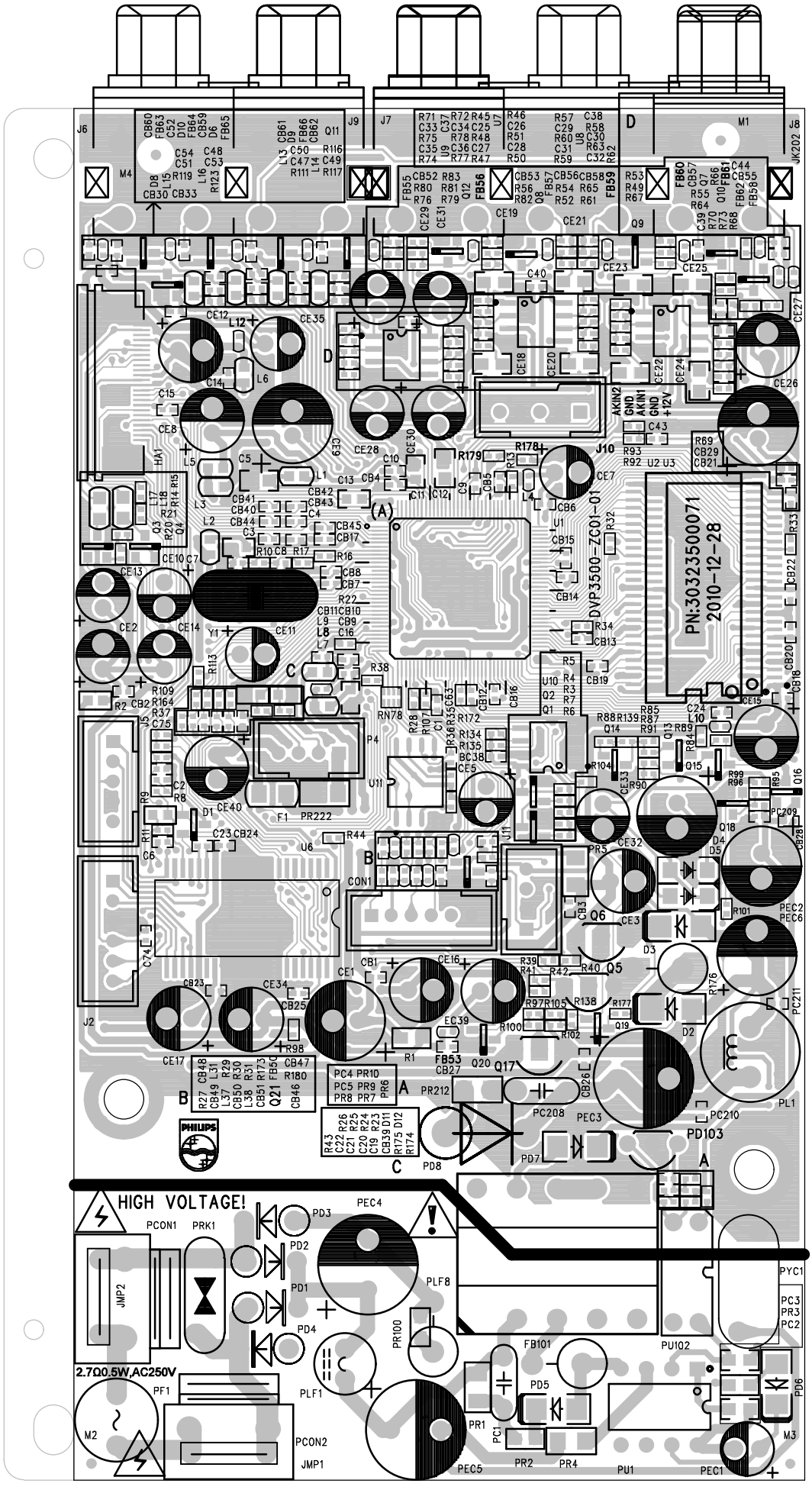
VFD

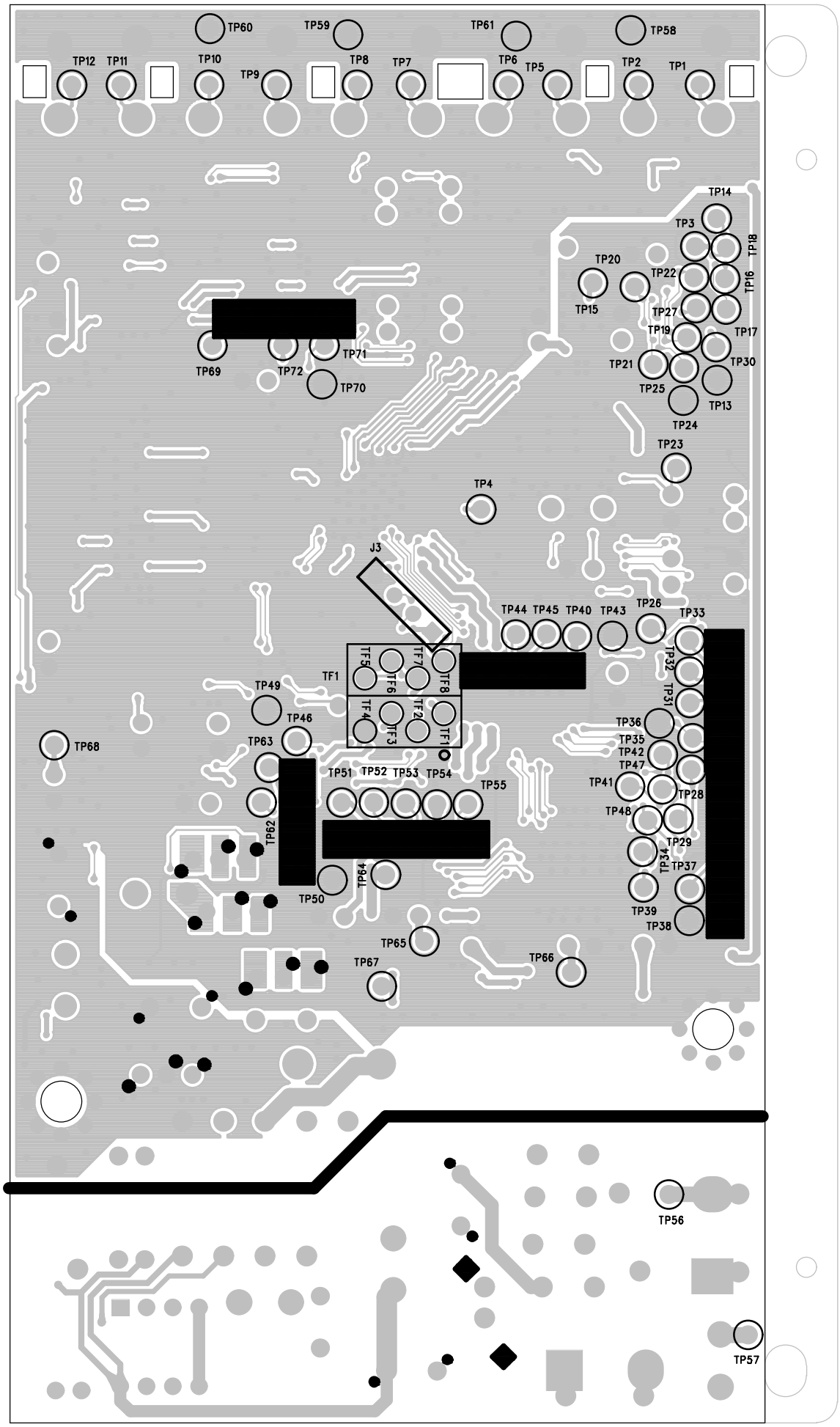
RS-232

FOR Indian version

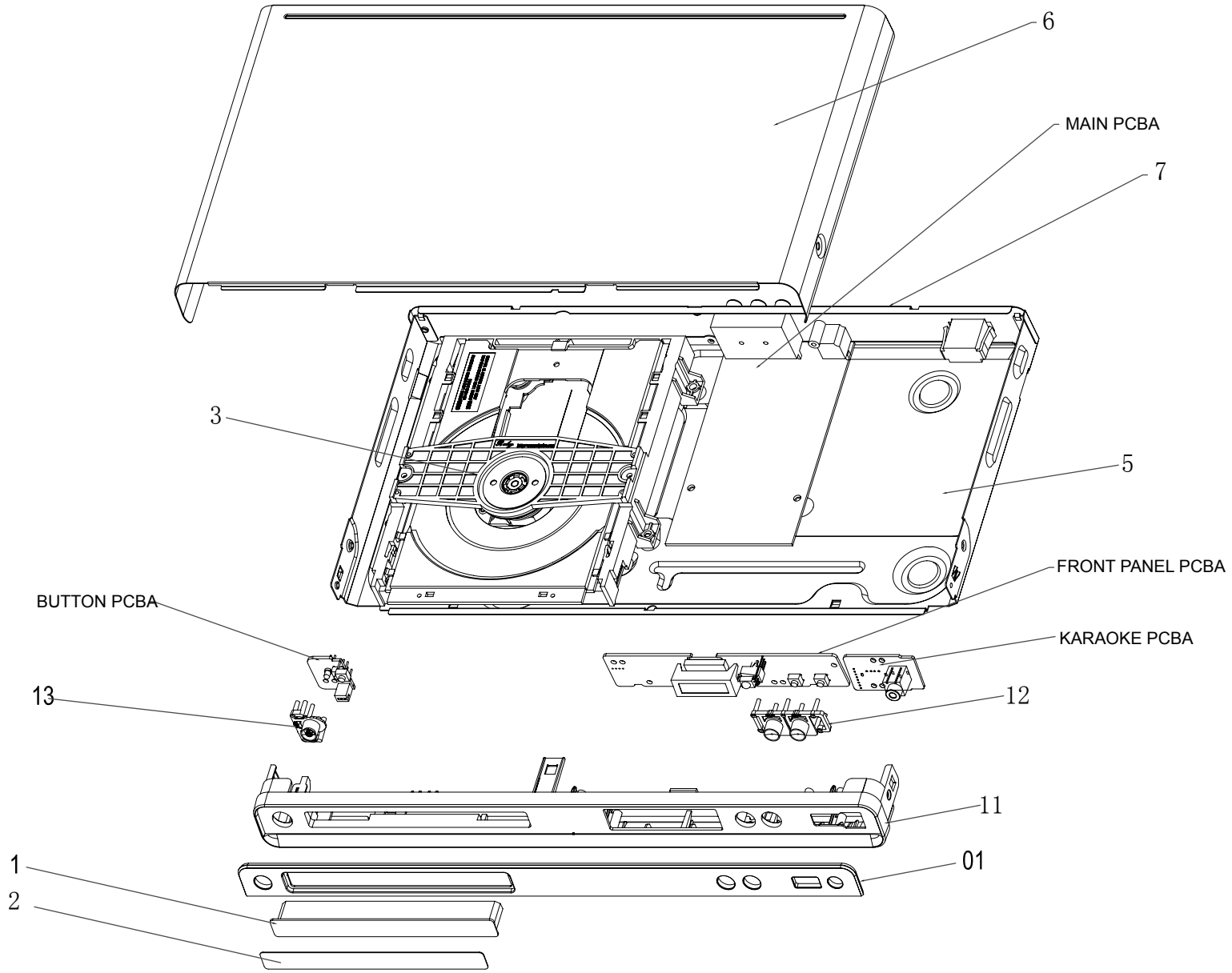
OFF-PAGE CONNECTION

DRAM I/F
S-FLASH
VIDEO I/F
AUDIO I/F
FLASH I/F
USB I/F
MCR I/F
SERVO I/F
POWER


HIGH VOLTAGE!
PHILIPS
PN:30323500071
2010-12-28
DVP3500-ZC01-01
2.7Ω0.5W,AC250V


TP60
TP59
TP61
TP58
TP12
TP11
TP10
TP9
TP8
TP7
TP6
TP5
TP2
TP1
TP14
TP3
TP18
TP20
TP22
TP16
TP15
TP27
TP19
TP17
TP71
TP69
TP72
TP70
TP21
TP30
TP25
TP13
TP24
TP23
TP4
J3
TP44
TP45
TP40
TP43
TP26
TP33
TF5
TF7
TF8
TF6
TF1
TP32
TP49
TP31
TF4
TF2
TF3
TF1
TP46
TP36
TP63
TP35
TP68
TP42
TP47
TP51
TP52
TP53
TP54
TP55
TP41
TP28
TP48
TP62
TP29
TP34
TP37
TP64
TP50
TP39
TP38
TP65
TP66
TP67
TP56
TP57

9-11


6
MAIN PCBA
7
3
5
FRONT PANEL PCBA
BUTTON PCBA
KARAOKE PCBA
13
12
11
1
01
2

Revision List

Version 1.0

* initial Release