

TOSHIBA

FILE NO. 810-200965GR

SERVICE MANUAL



Combination 19/22 LCD TV and DVD Video Player TELETEXT

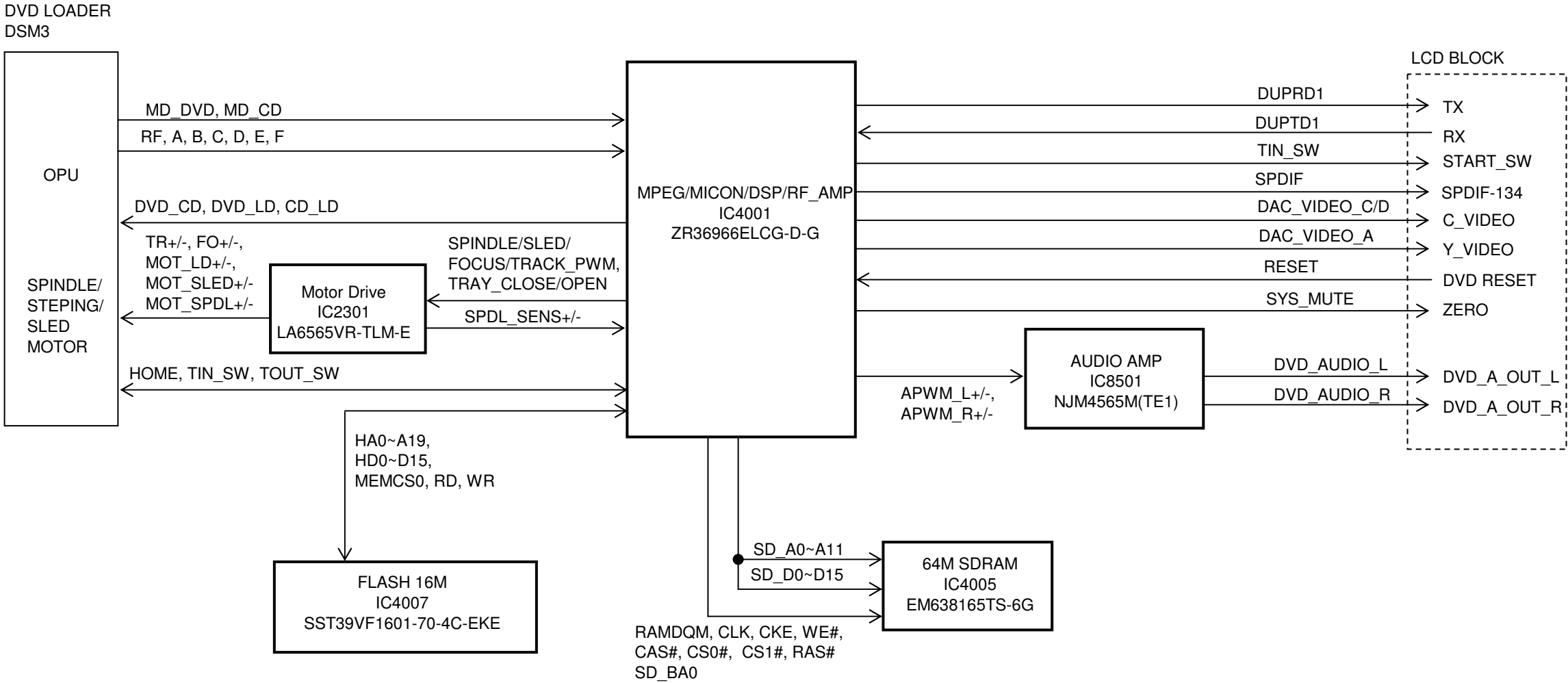
19SLDT3 22SLDT3



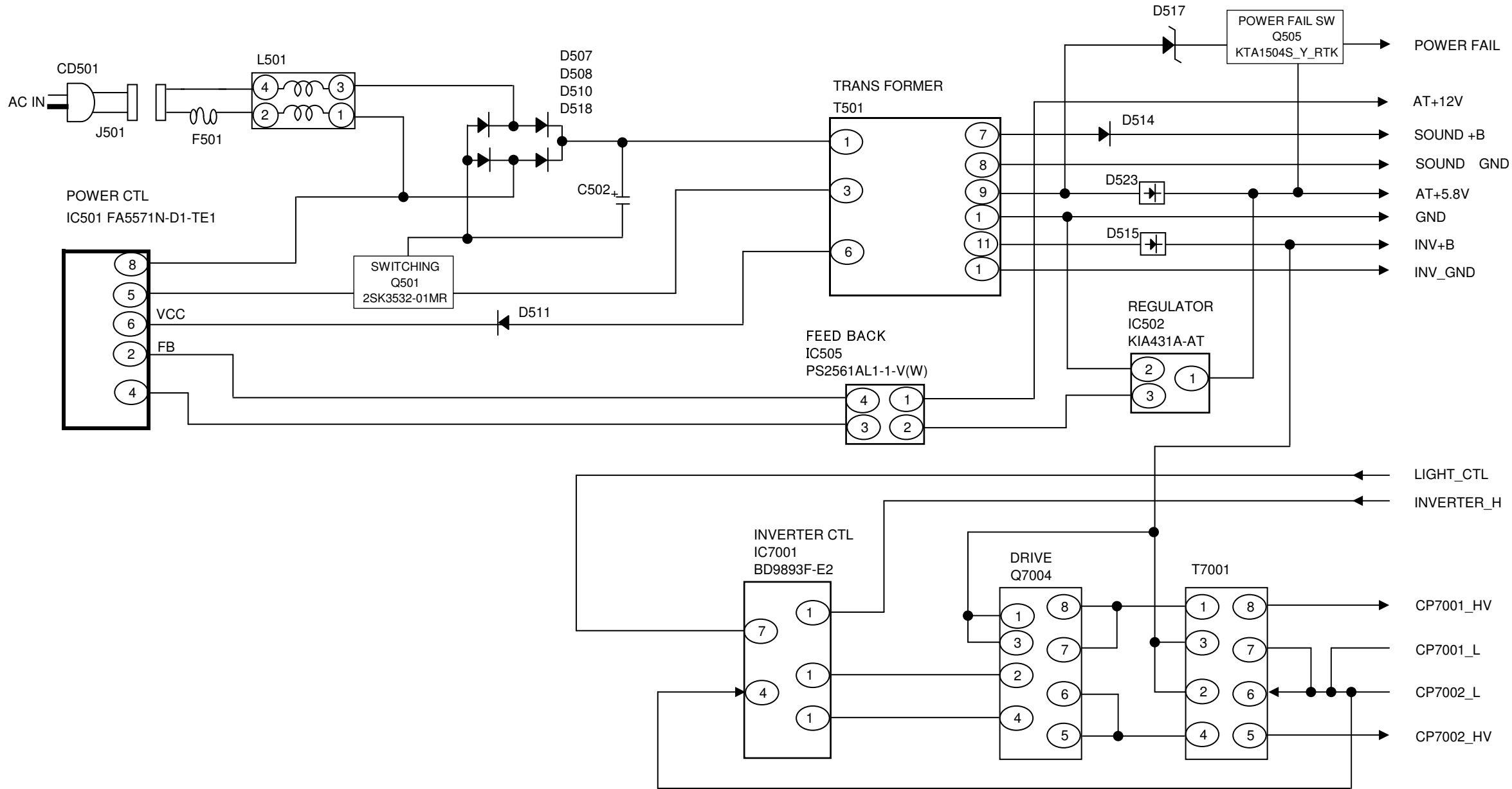
The above models are classified as green products (*1), as indicated by the underlined serial numbers. This Service Manual describes replacement parts for the green products. When repairing these green product(s), use the part(s) described in this manual and lead-free solder (*2).

For (*1) and (*2), see the next page.

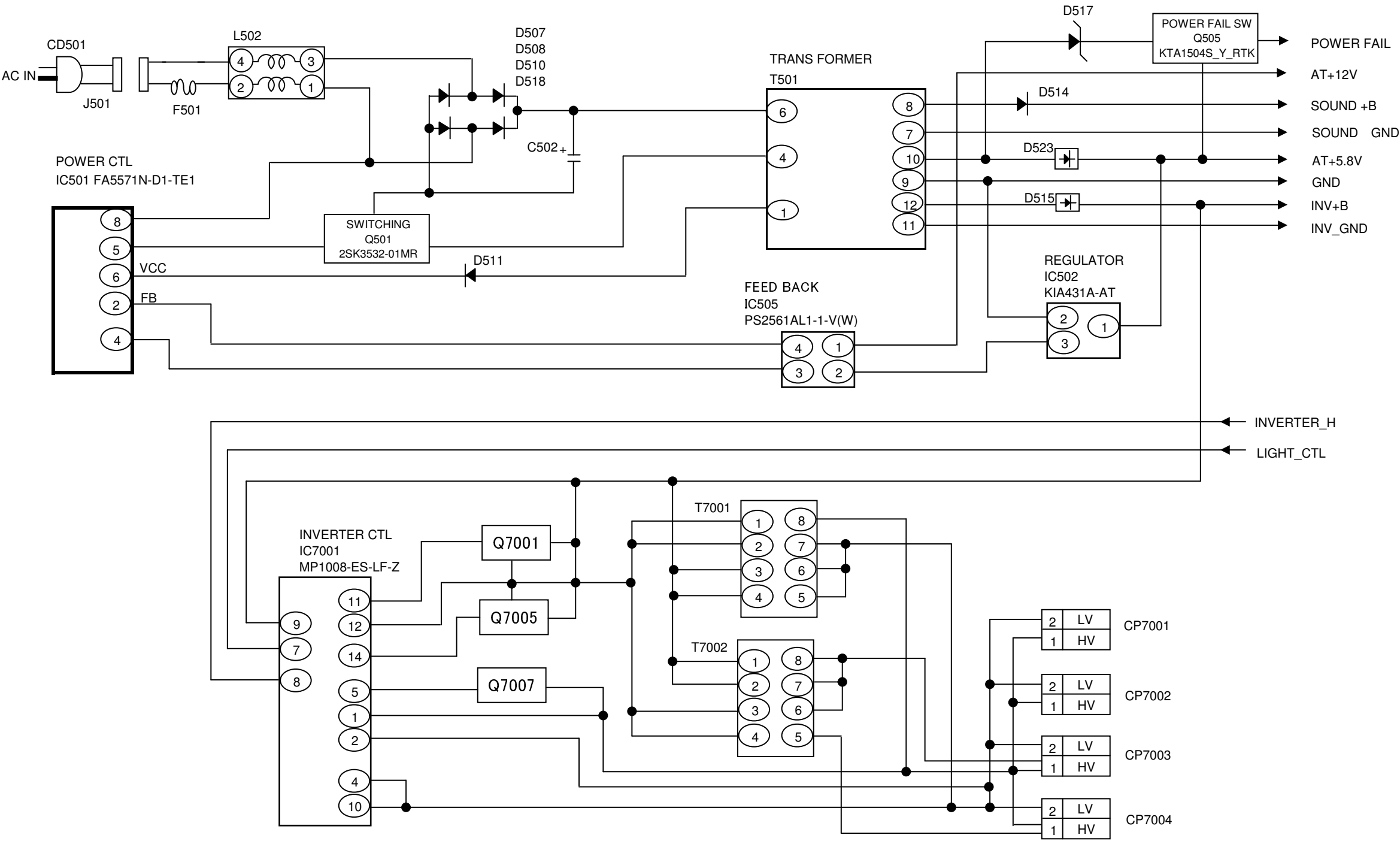
DVD BLOCK DIAGRAM



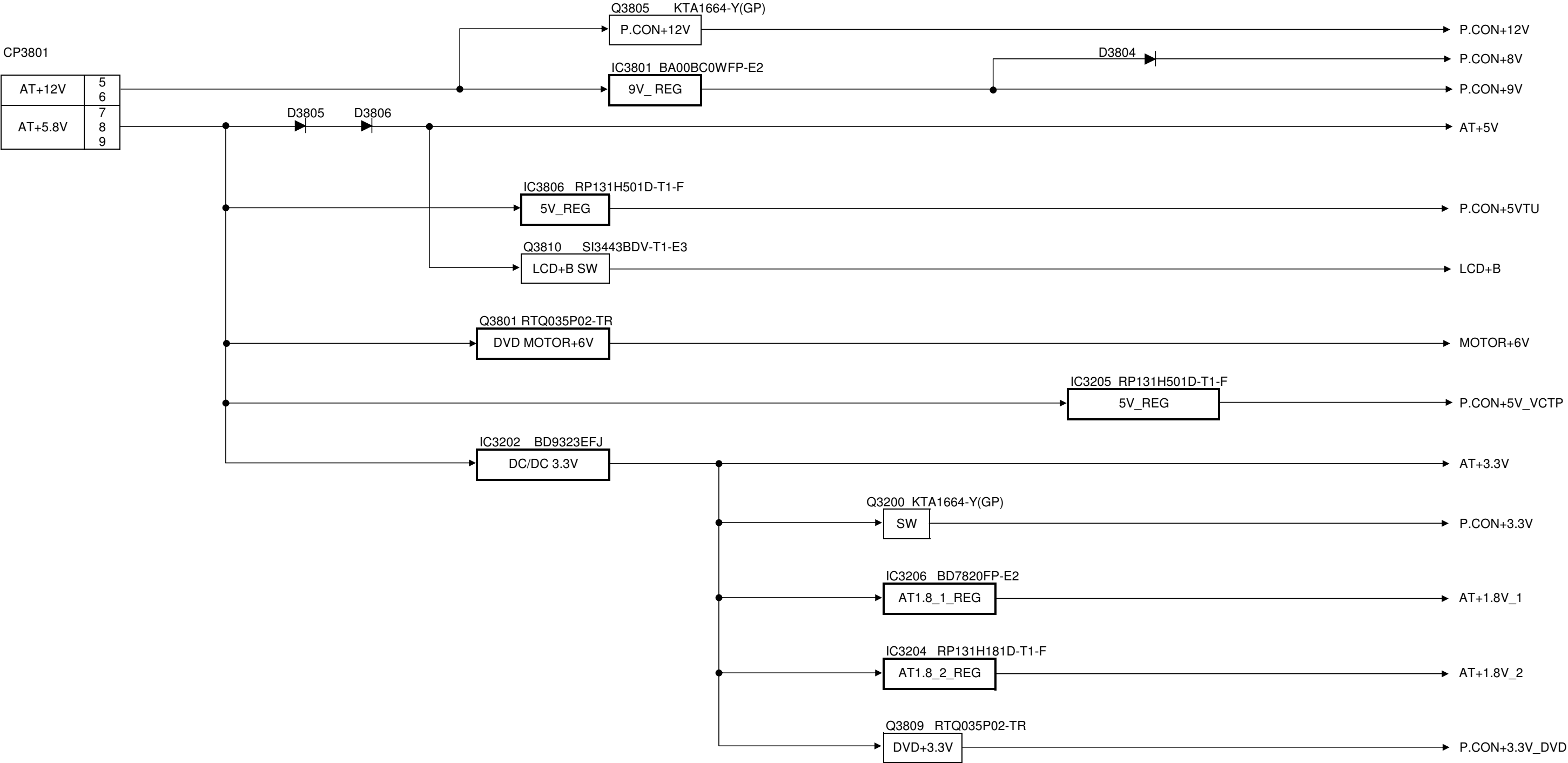
POWER BLOCK DIAGRAM



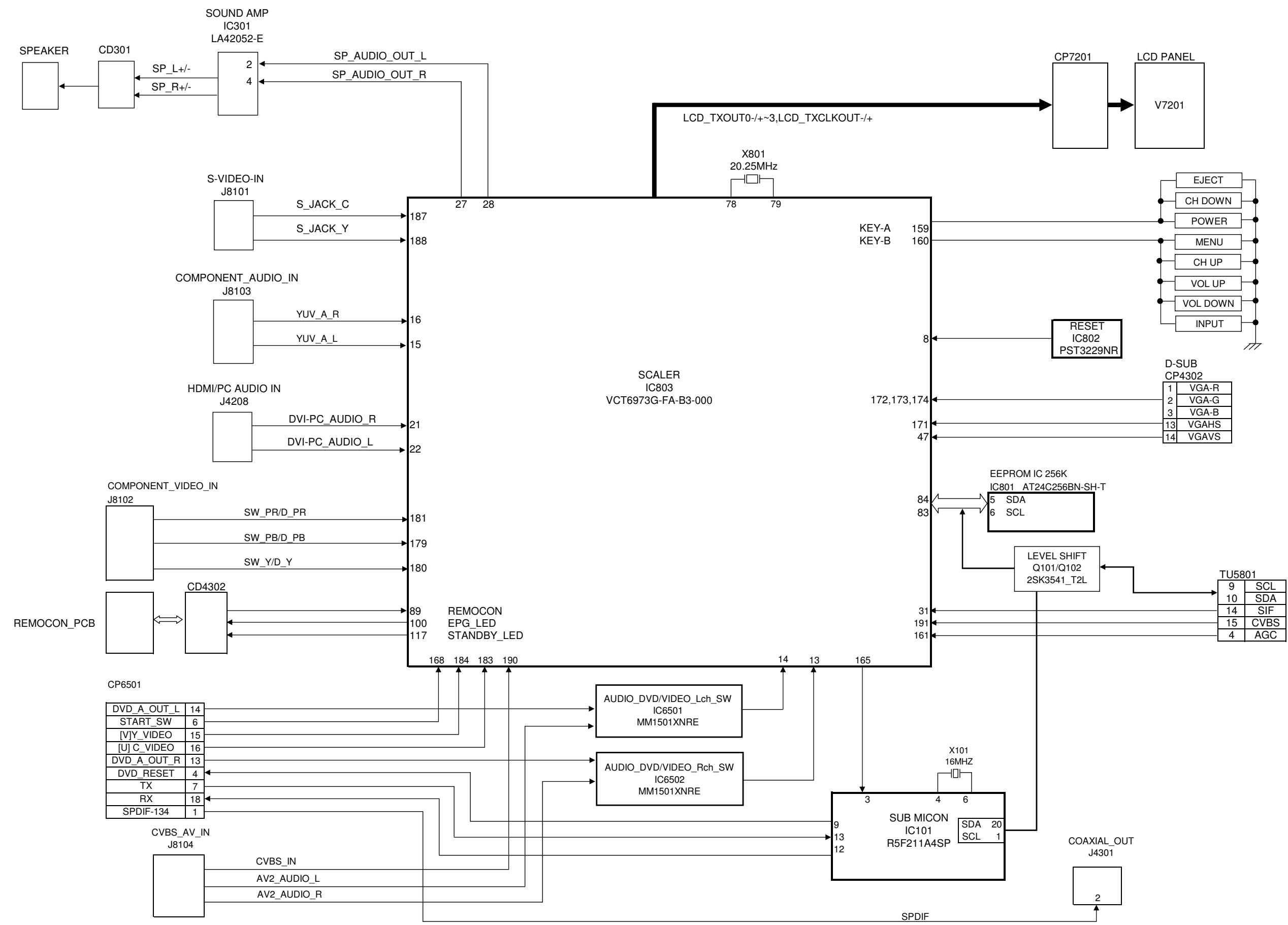
POWER BLOCK DIAGRAM



REGULATOR BLOCK DIAGRAM

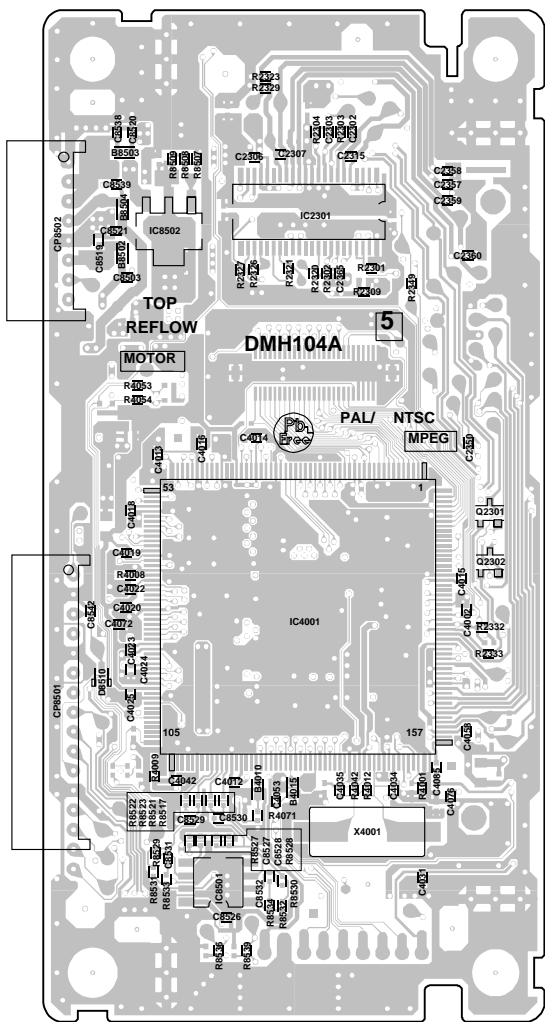


MAIN BLOCK DIAGRAM

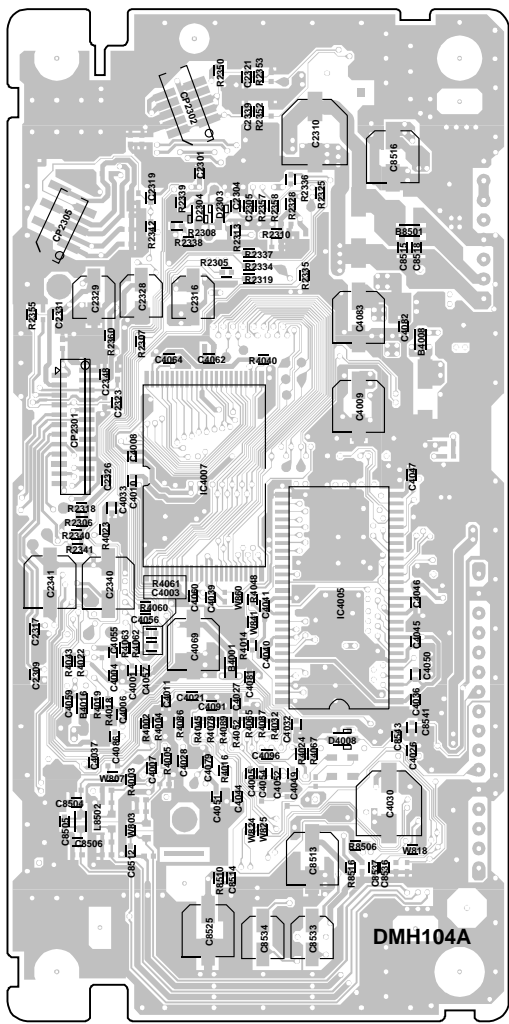


PRINTED CIRCUIT BOARDS

DVD MT (TOP SIDE)

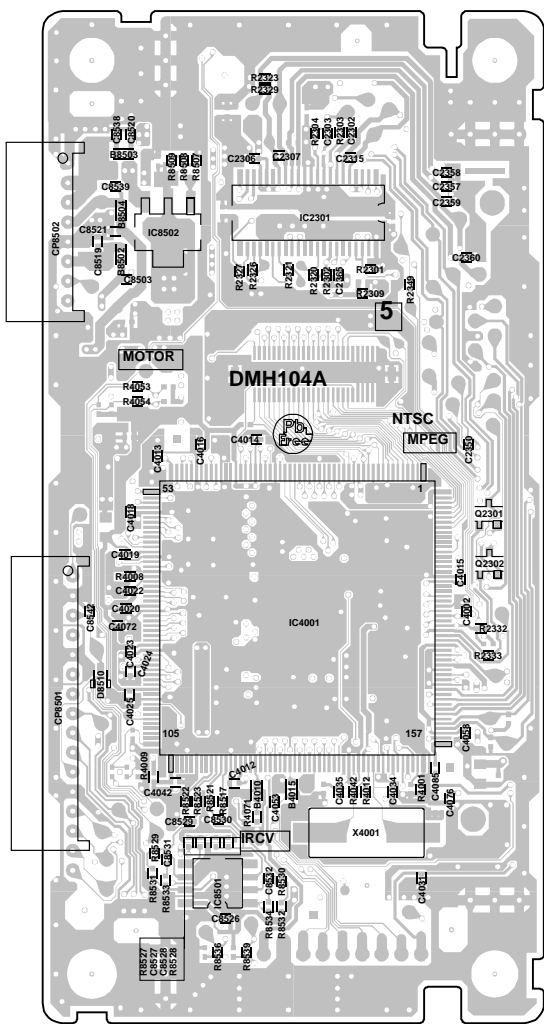


DVD MT (BOTTOM SIDE)

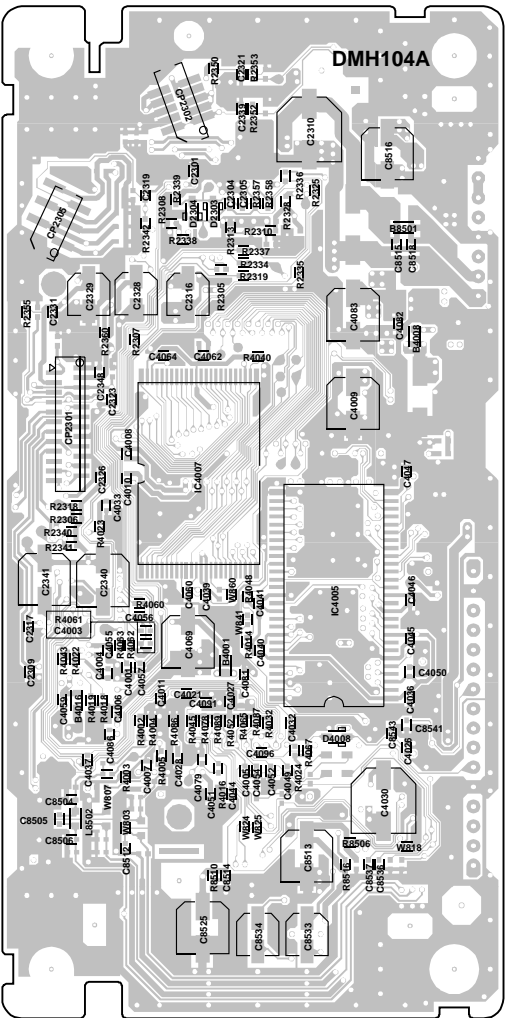


PRINTED CIRCUIT BOARDS

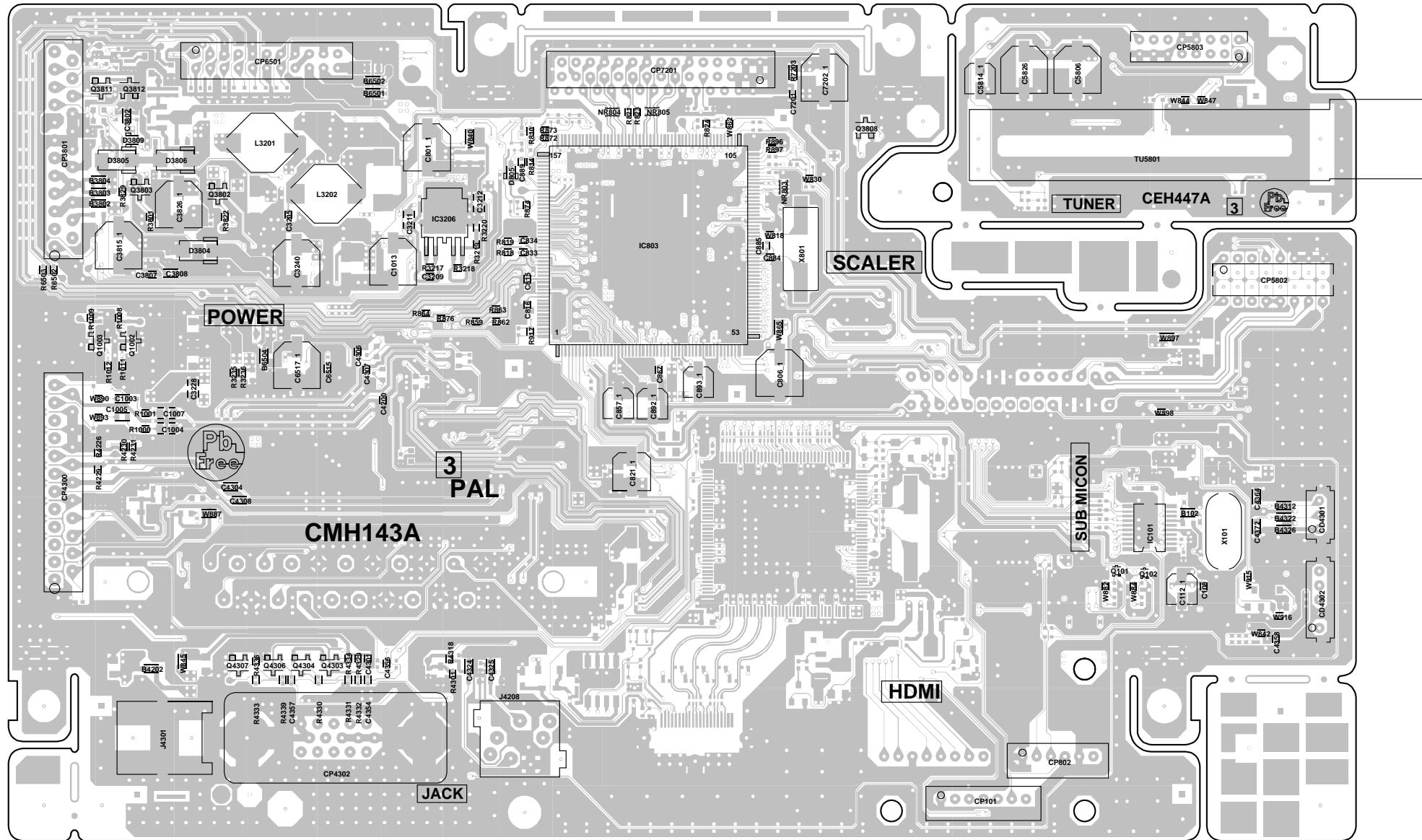
DVD MT (TOP SIDE)



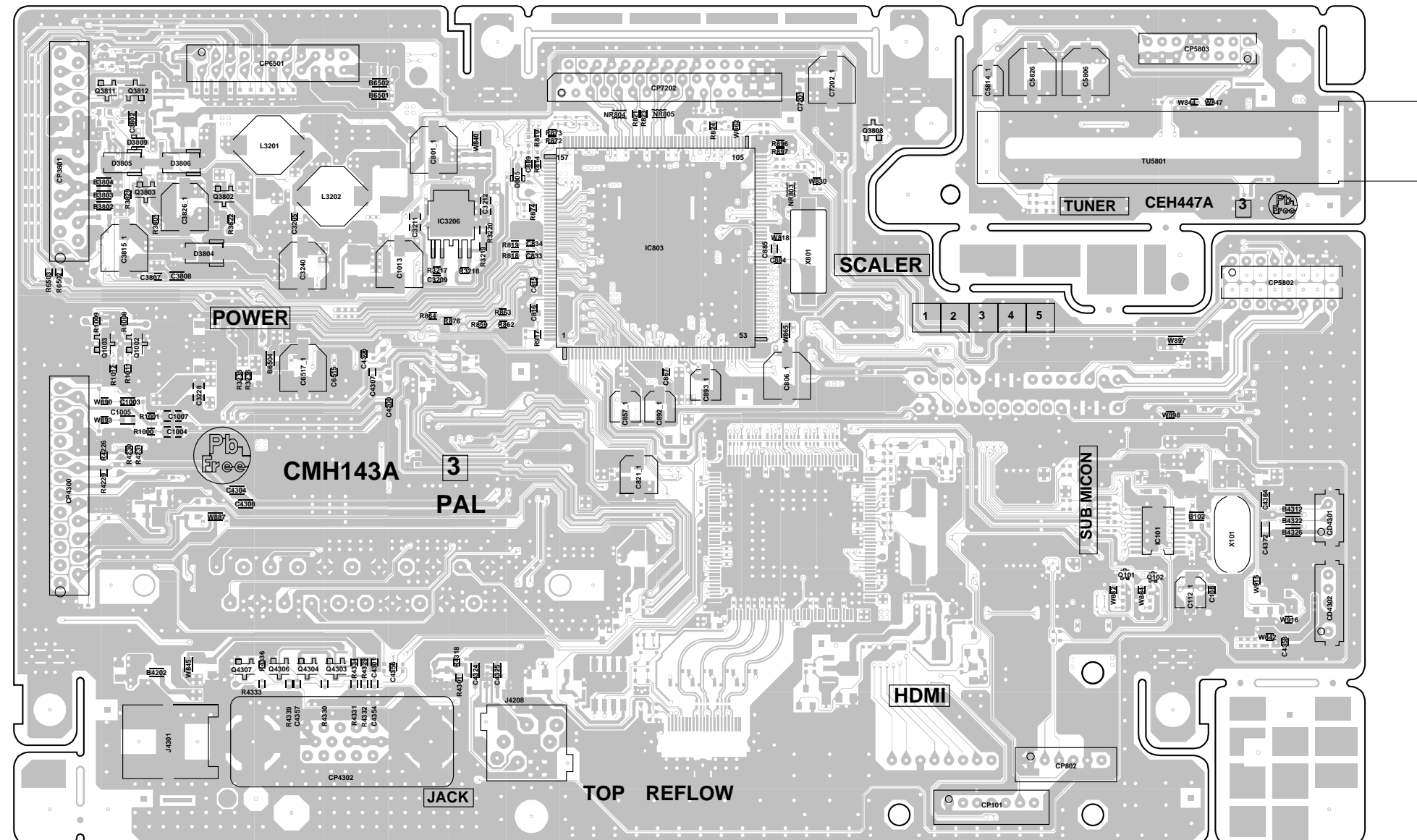
DVD MT (BOTTOM SIDE)



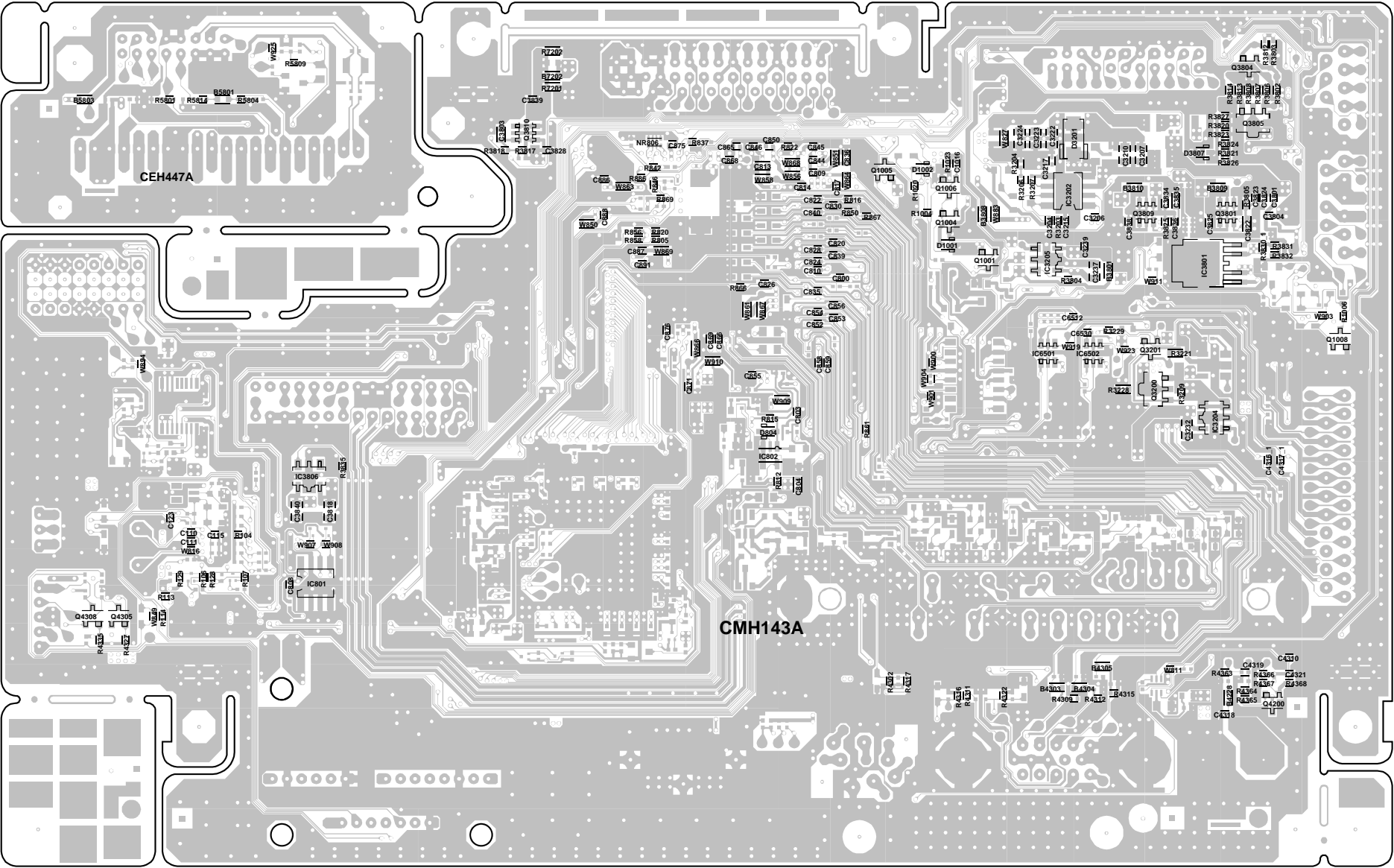
PRINTED CIRCUIT BOARDS MAIN/TUNER (TOP SIDE)



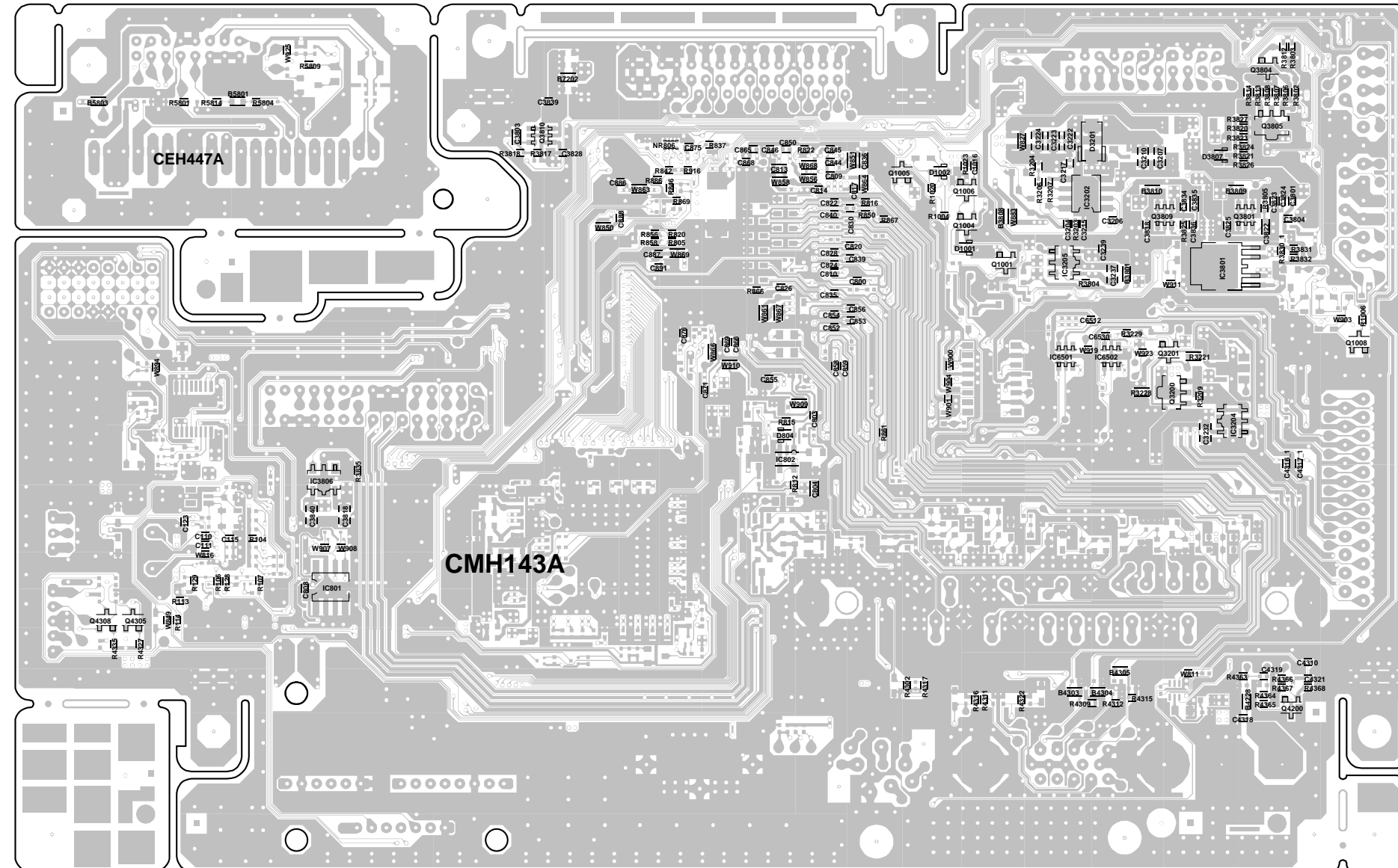
PRINTED CIRCUIT BOARDS MAIN/TUNER (TOP SIDE)



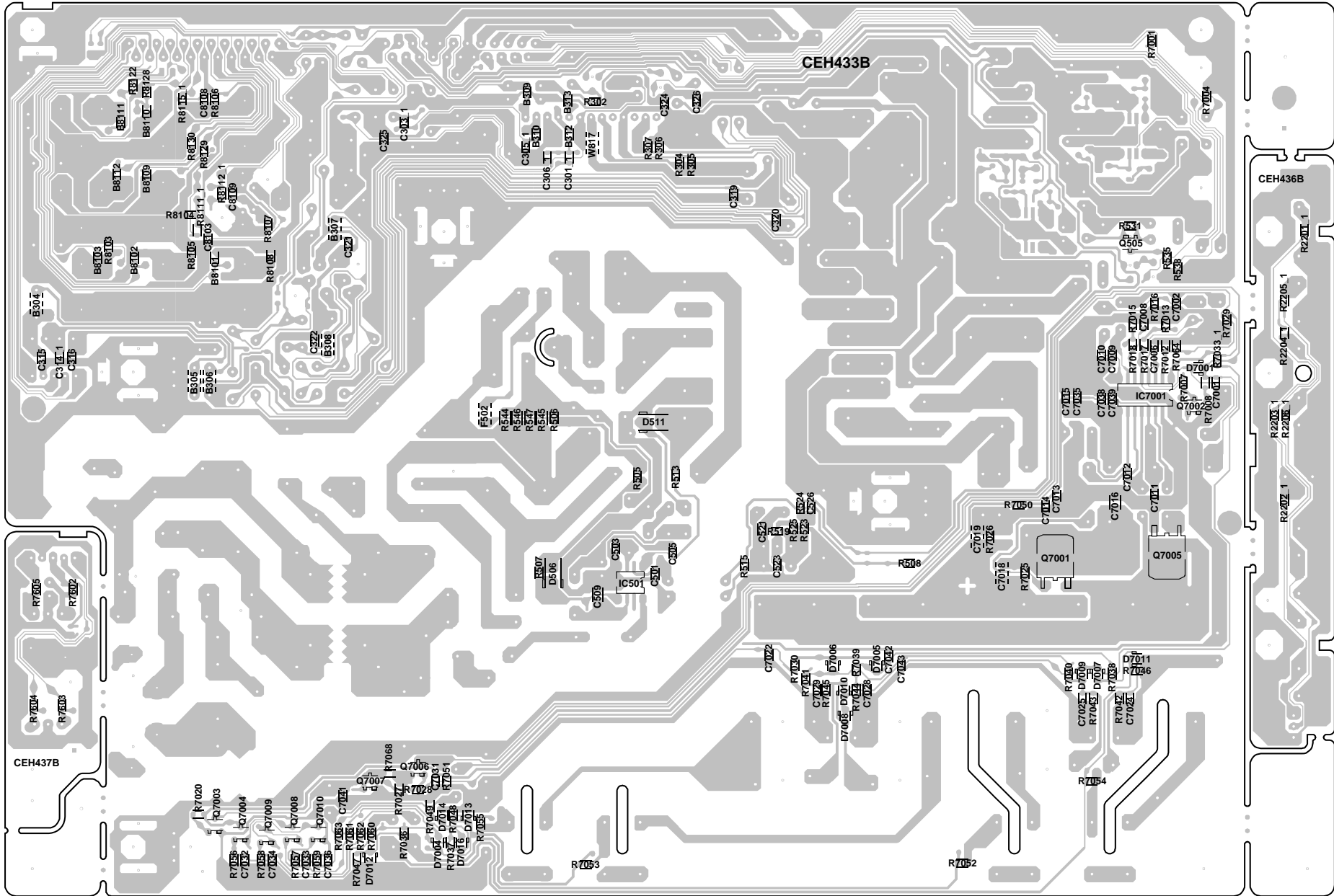
PRINTED CIRCUIT BOARDS
MAIN/TUNER (BOTTOM SIDE)



PRINTED CIRCUIT BOARDS MAIN/TUNER (BOTTOM SIDE)

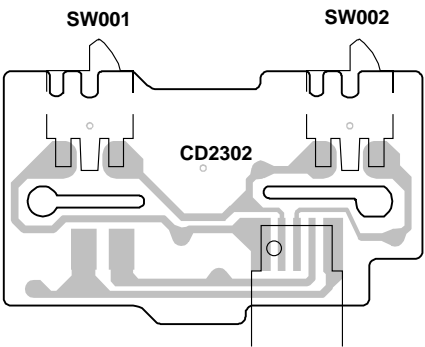


**PRINTED CIRCUIT BOARDS
POWER/OPERATION/REMOCON (CHIP MOUNTED PARTS)
SOLDER SIDE**

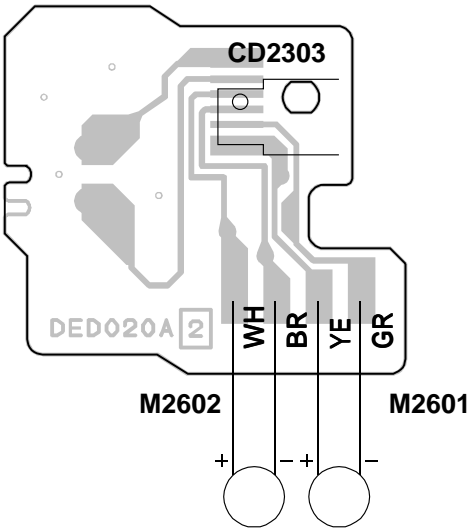


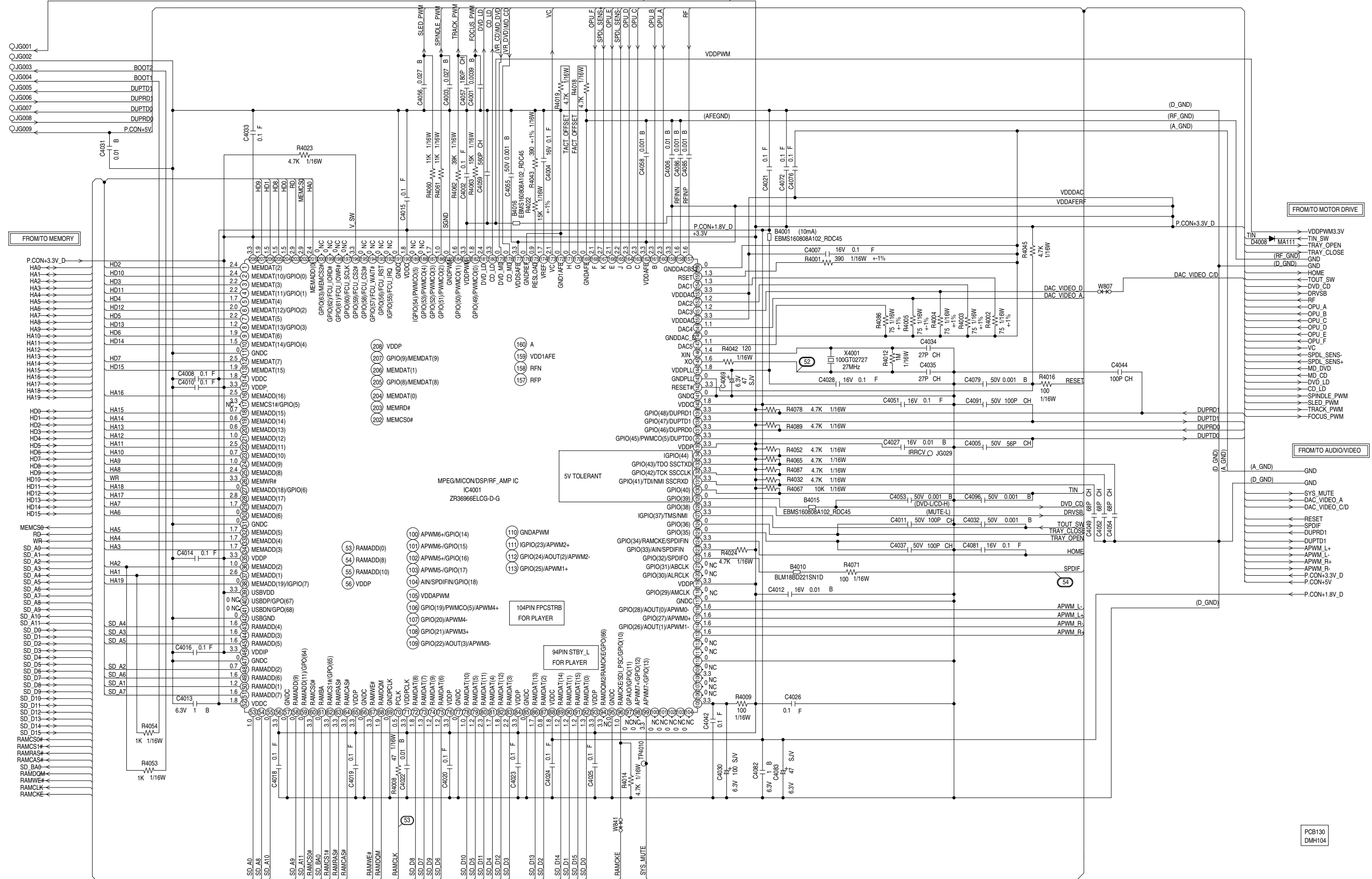
PRINTED CIRCUIT BOARDS

LOADING MOTOR
SOLDER SIDE



PCB
SOLDER SIDE

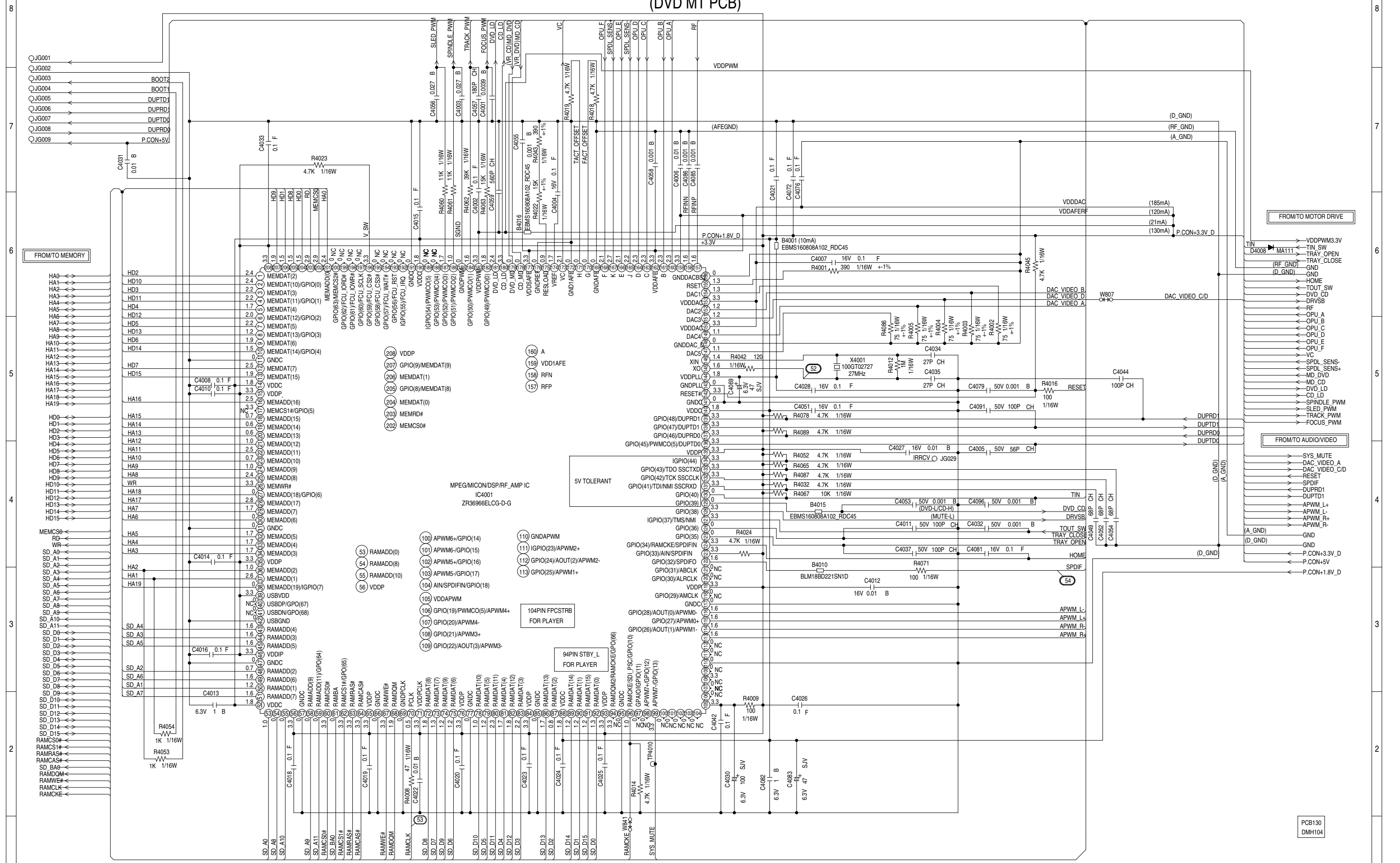


MPEG/MICON/DSP/RF_AMP SCHEMATIC DIAGRAM
(DVD MT PCB)

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE:THE DC VOLTAGE EACH PART WAS
MEASURED WITH THE DIGITAL TESTER
DURING PLAYBACK.

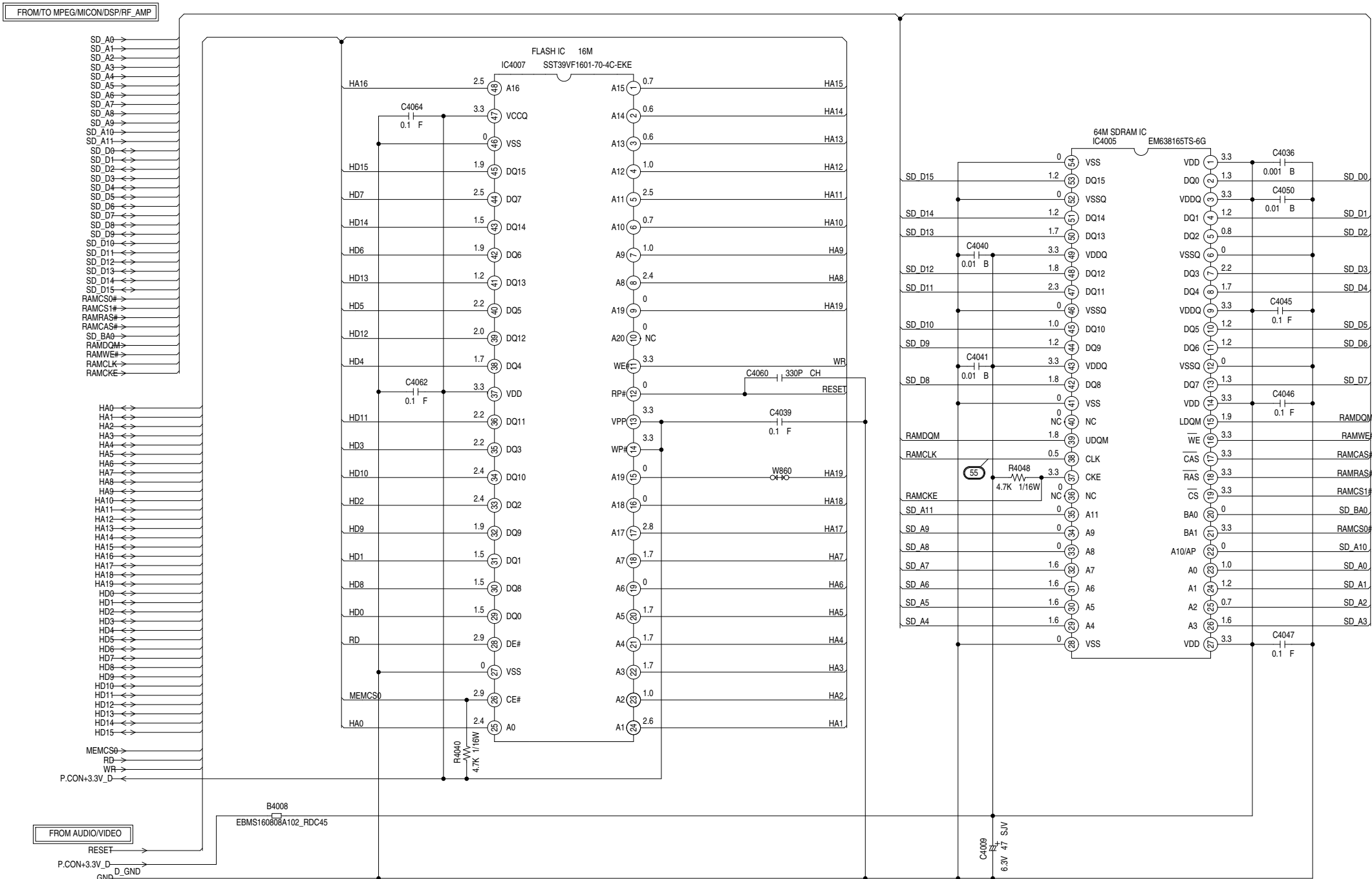
(DVD MT PCB)



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MEMORY SCHEMATIC DIAGRAM
(DVD MT PCB)

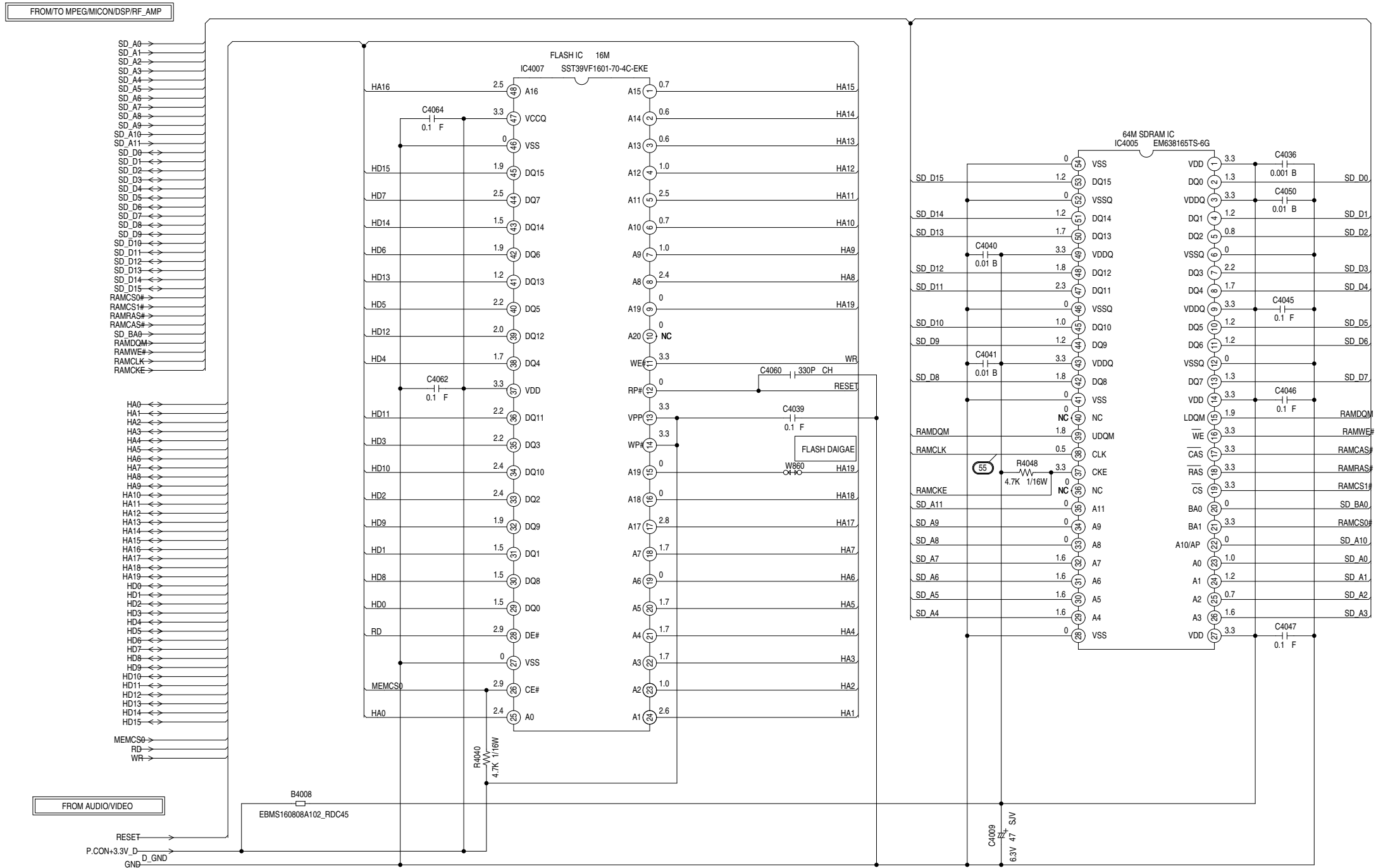


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PCB130
DMH104

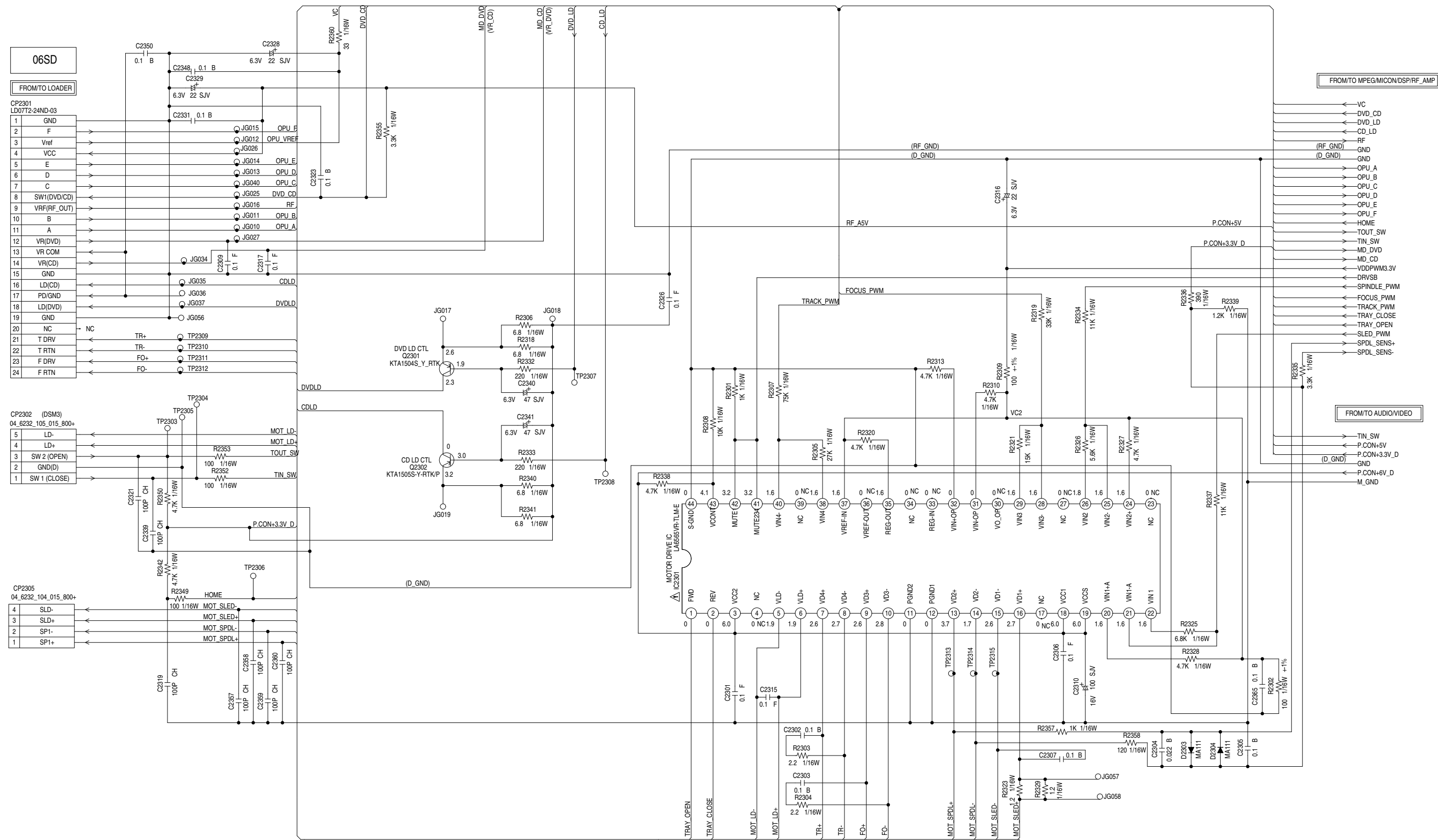
MEMORY SCHEMATIC DIAGRAM
(DVD MT PCB)



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PCB130
DMH104

MOTOR DRIVE SCHEMATIC DIAGRAM
(DVD MT PCB)



CAUTION: SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

ATTENTION: LES PIÈCES RÉPARÉES PAR UN ÉTANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DÉCRITES DANS LA NOMENCLATURE DES PIÈCES

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PCB130
DMH104


(DVD MT PCB)



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ATTENTION LES PIÈCES RÉPARÉES PAR UN  ÉTANT DANGEREUSES AU POINT DE VUE SÉCURITÉ N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES

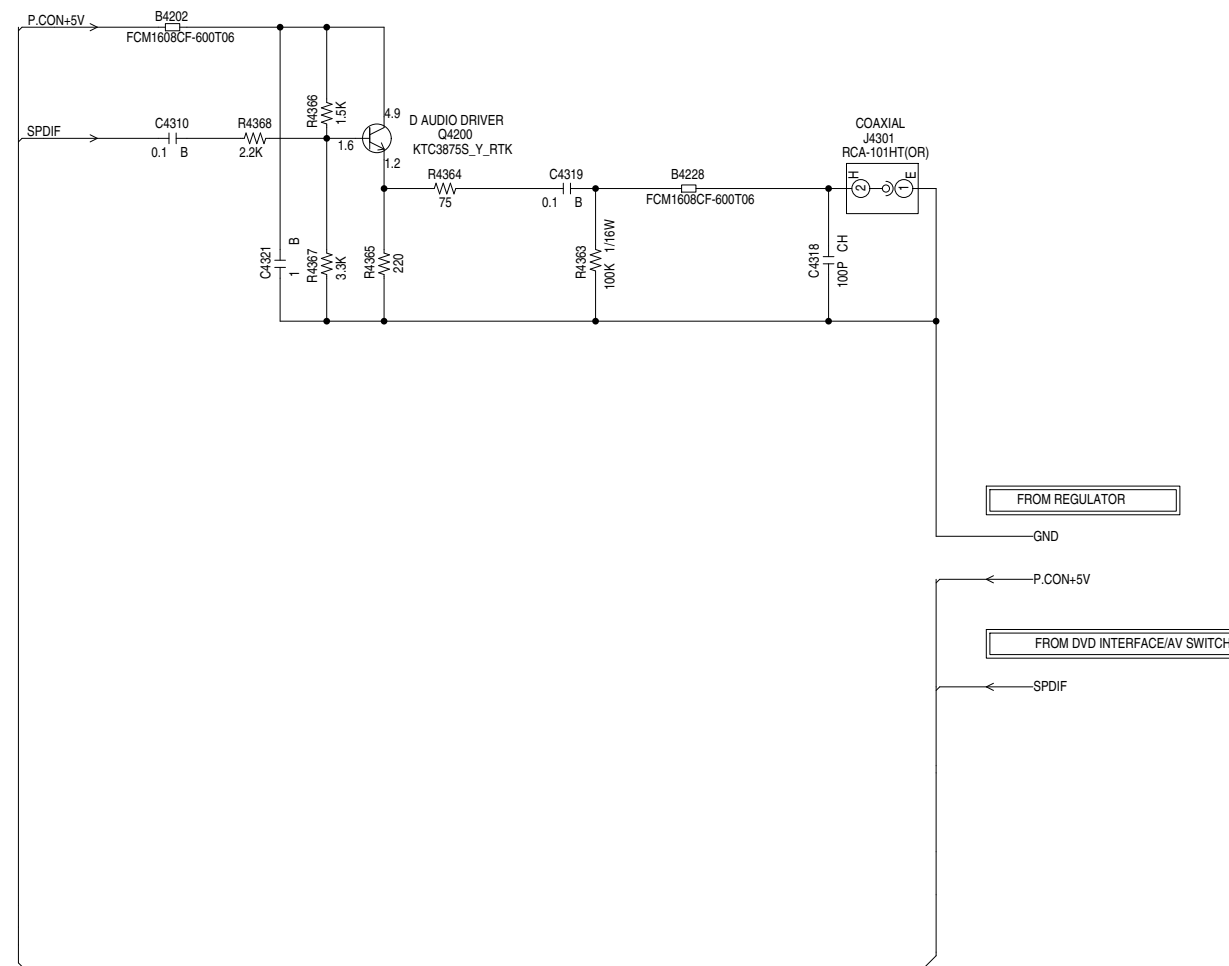
(DVD MT PCB)



ATTENTION LES PIÈCES REPARÉES PAR UN  ÉTANT DANGEREUSES AU POINT DE VUE SÉCURITÉ N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES

21PIN SCHEMATIC DIAGRAM

(MAIN PCB)

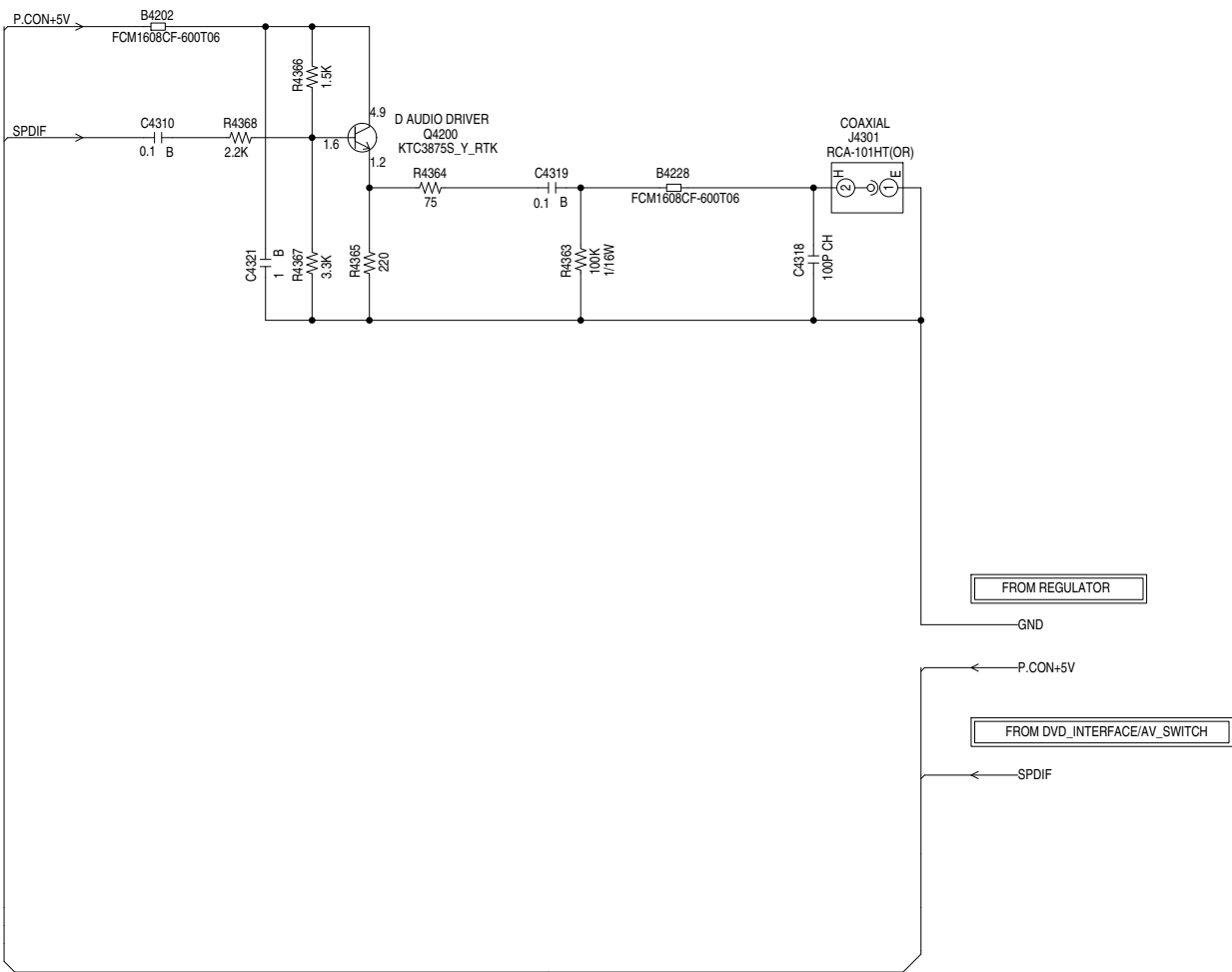


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NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
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PCBF40
CMH143

21PIN SCHEMATIC DIAGRAM
(MAIN PCB)



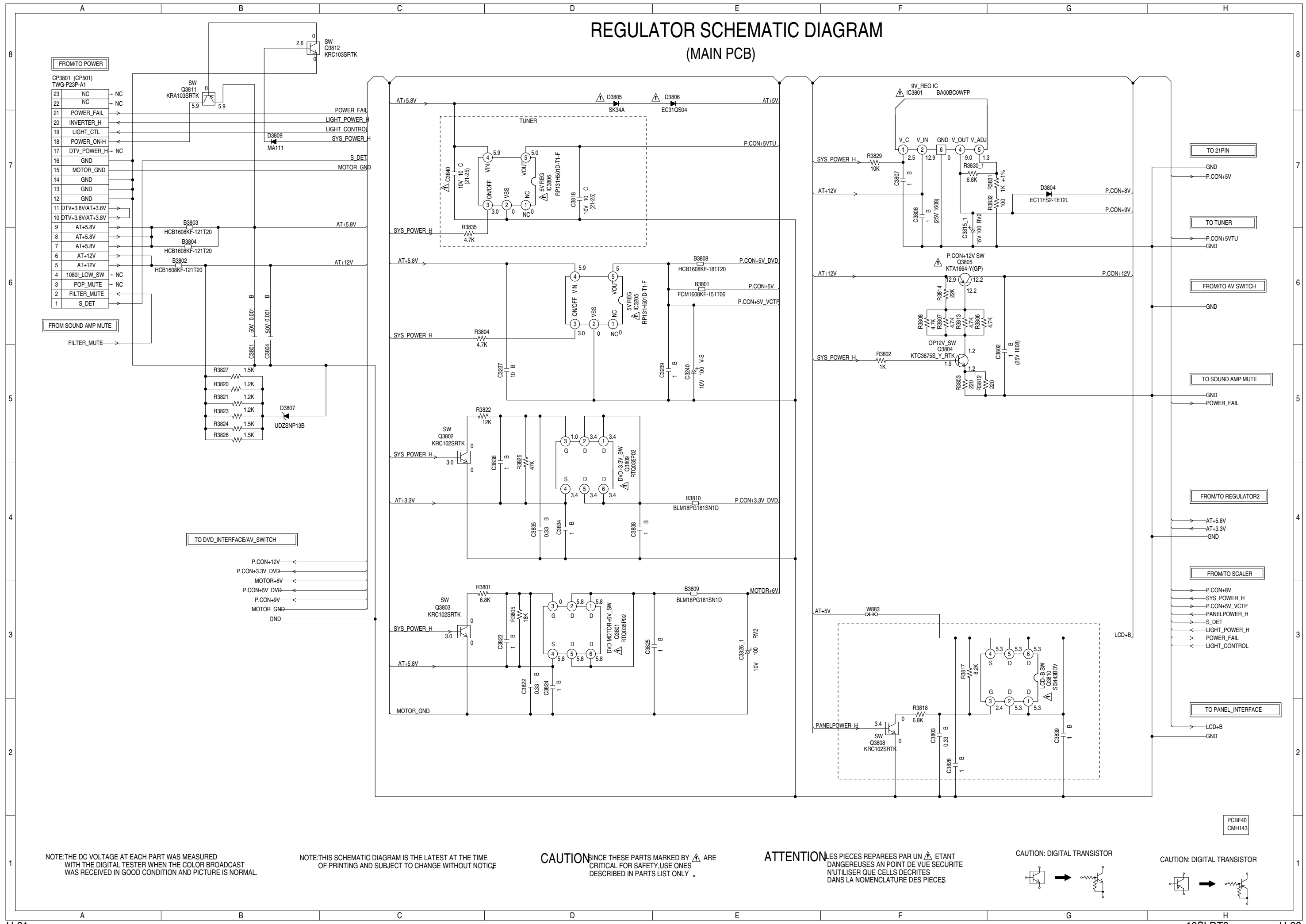
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PCBF40
CMH143


REGULATOR SCHEMATIC DIAGRAM


(MAIN PCB)



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WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
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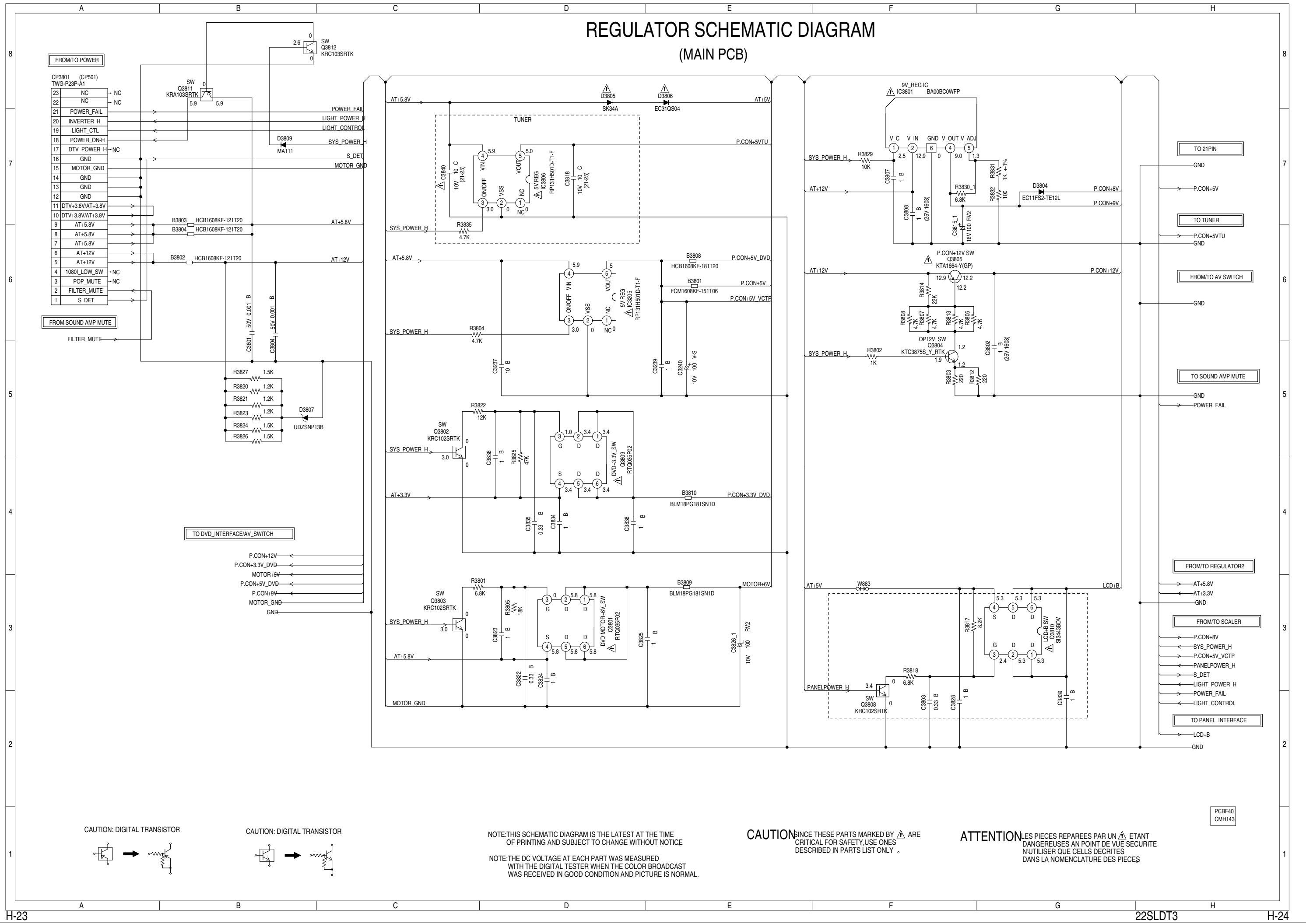
ATTENTION LES PIÈCES RÉPARÉES PAR UN  ÉTANT DANGEREUSES AU POINT DE VUE SÉCURITÉ N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES

CAUTION: DIGITAL TRANSISTOR

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REGULATOR SCHEMATIC DIAGRAM

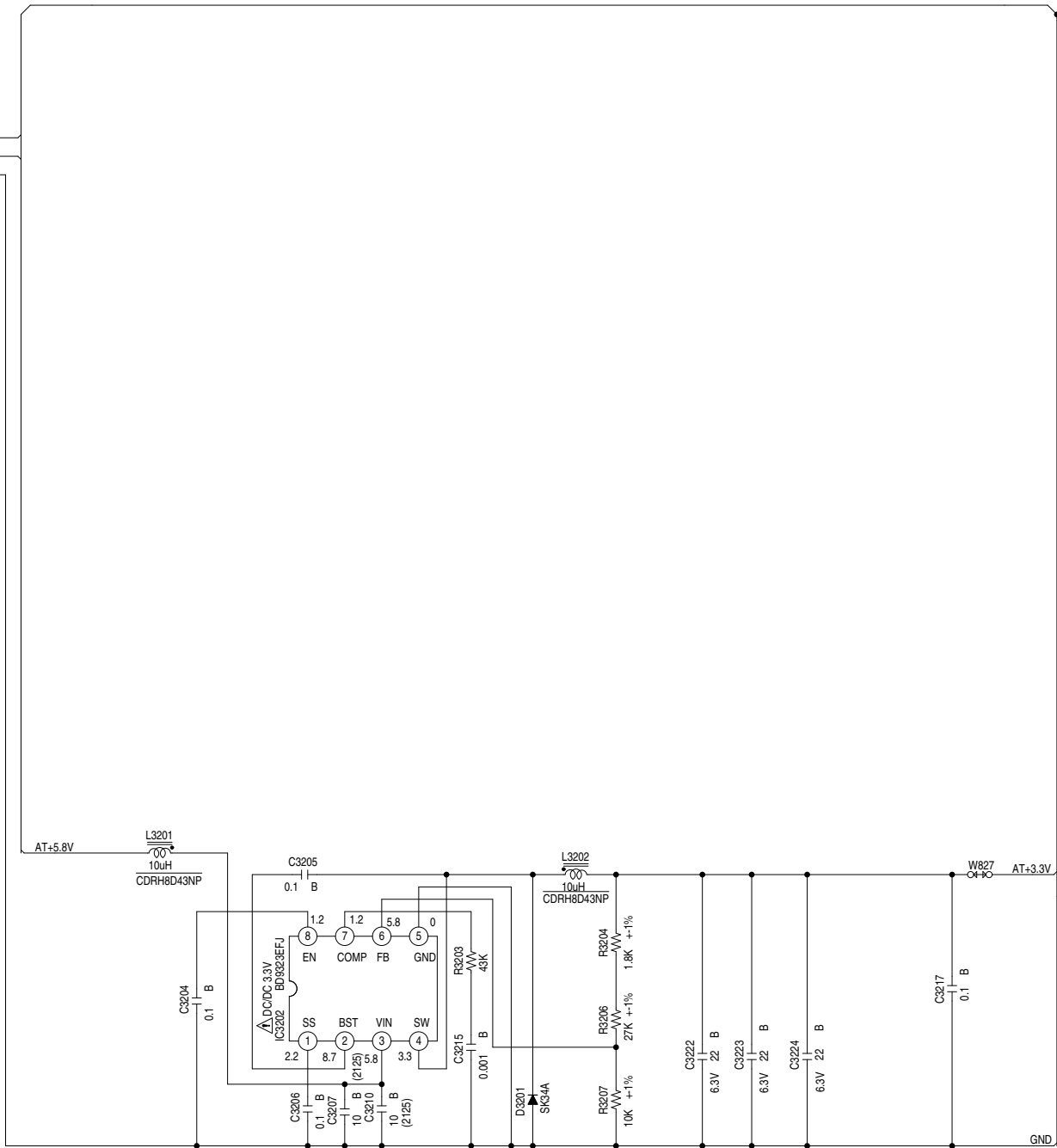
(MAIN PCB)



REGULATOR2 SCHEMATIC DIAGRAM
(MAIN PCB)

FROM/TO REGULATOR

AT+3.3V
AT+5.8V
GND



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

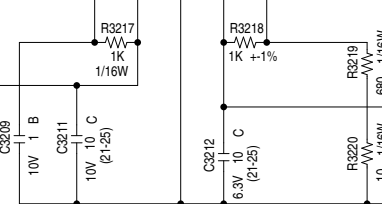
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AT1.8V_1_REG IC
IC3206 BD7820FP

V_C 2.9
V_IN 3.4
GND 0
V_OUTV_ADJ 1.8
V_OUTV 0.7



FROM/TO SCALER

GND
AT+1.8V_1
AT+1.8V_2
AT+3.3V
SYS_POWER_H

TO JACK

GND
P.CON+3.3V
AT+3.3V

TO SOUND AMP MUTE

P.CON+3.3V
AT+3.3V

TO SUB MICON

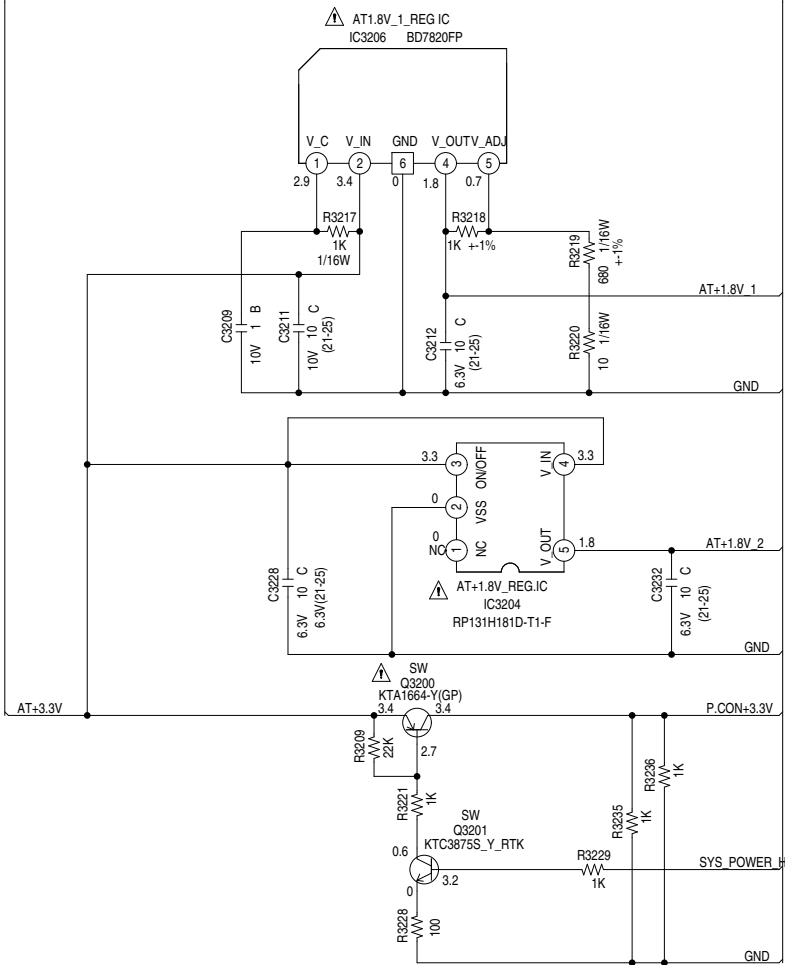
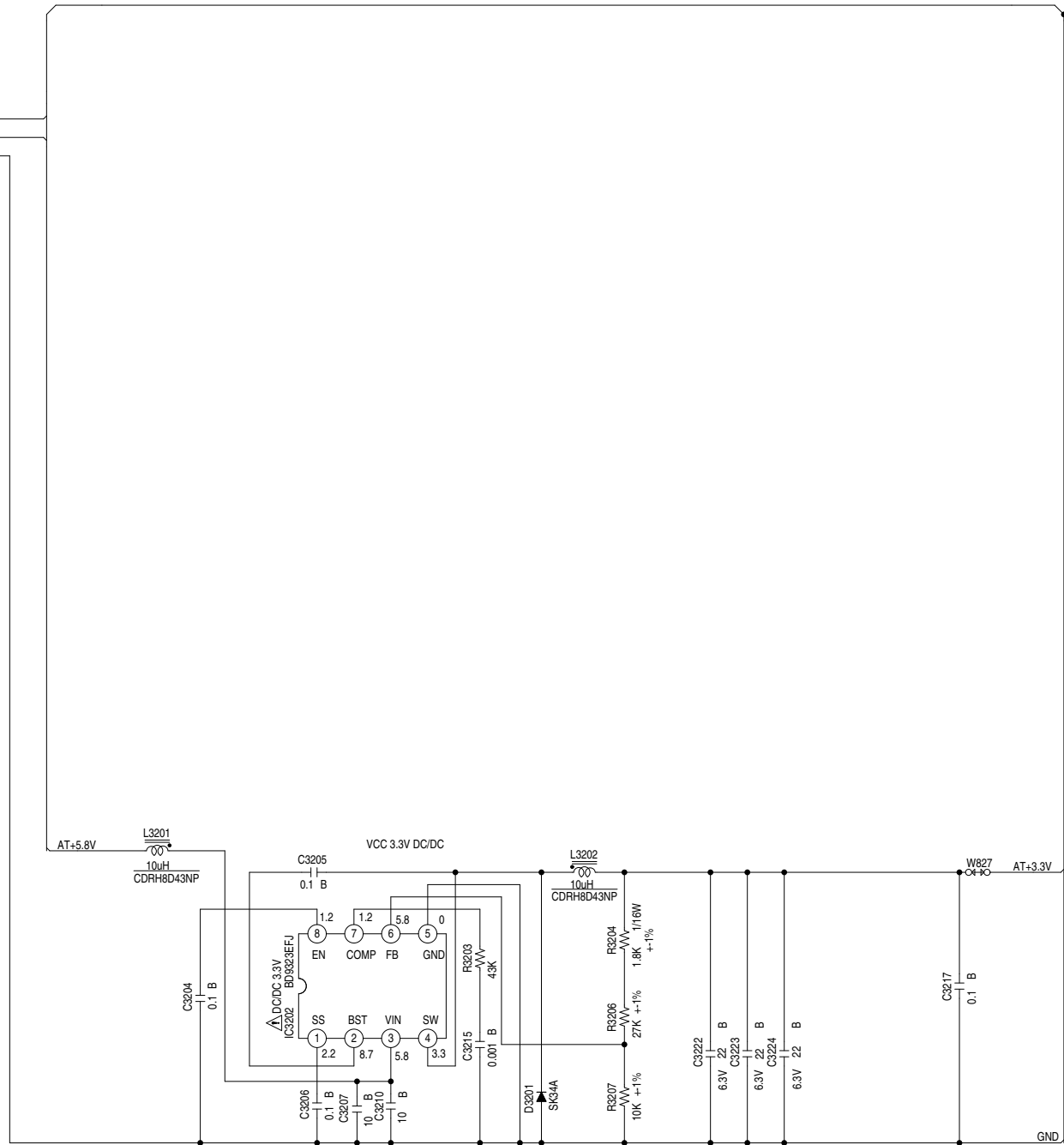
P.CON+3.3V
GND

PCBF40
CMH143

REGULATOR2 SCHEMATIC DIAGRAM
(MAIN PCB)

FROM/TO REGULATOR

AT+3.3V
AT+5.8V
GND



FROM/TO SCALER

GND
AT+1.8V_1
AT+1.8V_2
AT+3.3V
SYS_POWER_H

TO JACK

GND
P.CON+3.3V
AT+3.3V

TO SOUND AMP MUTE

P.CON+3.3V
AT+3.3V

TO SUB MICON

P.CON+3.3V
GND

PCBF40
CMH143

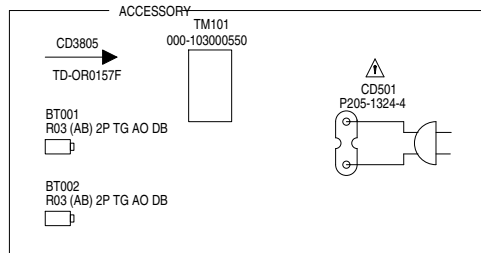
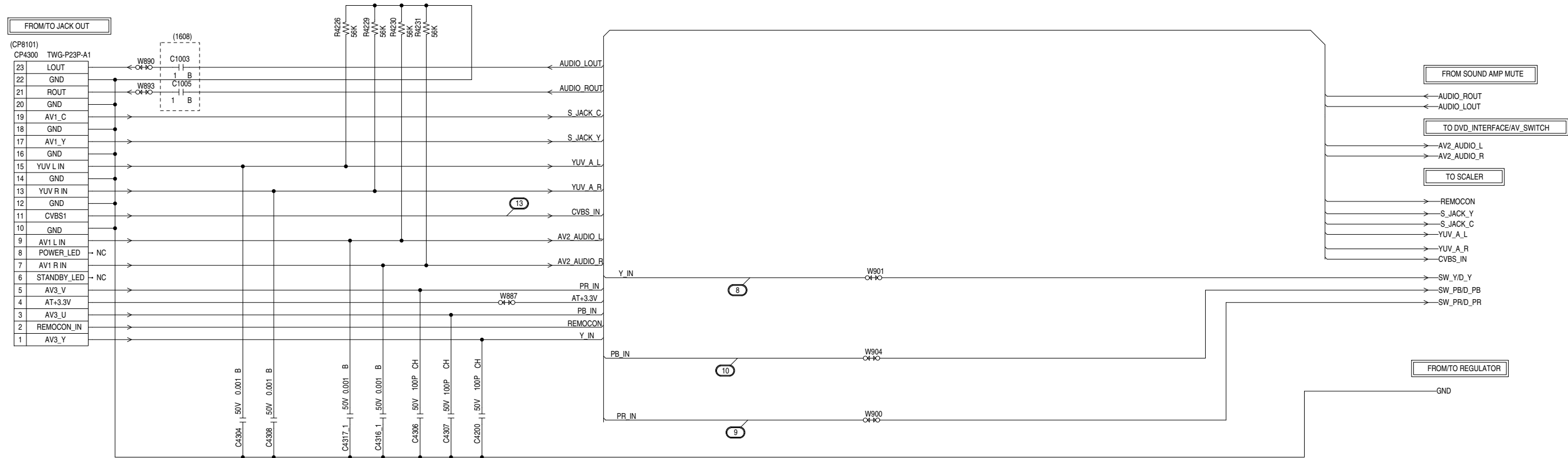
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AV SWITCH SCHEMATIC DIAGRAM
(MAIN PCB)



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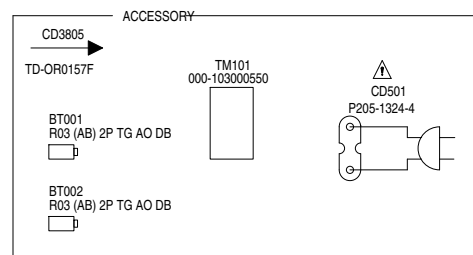
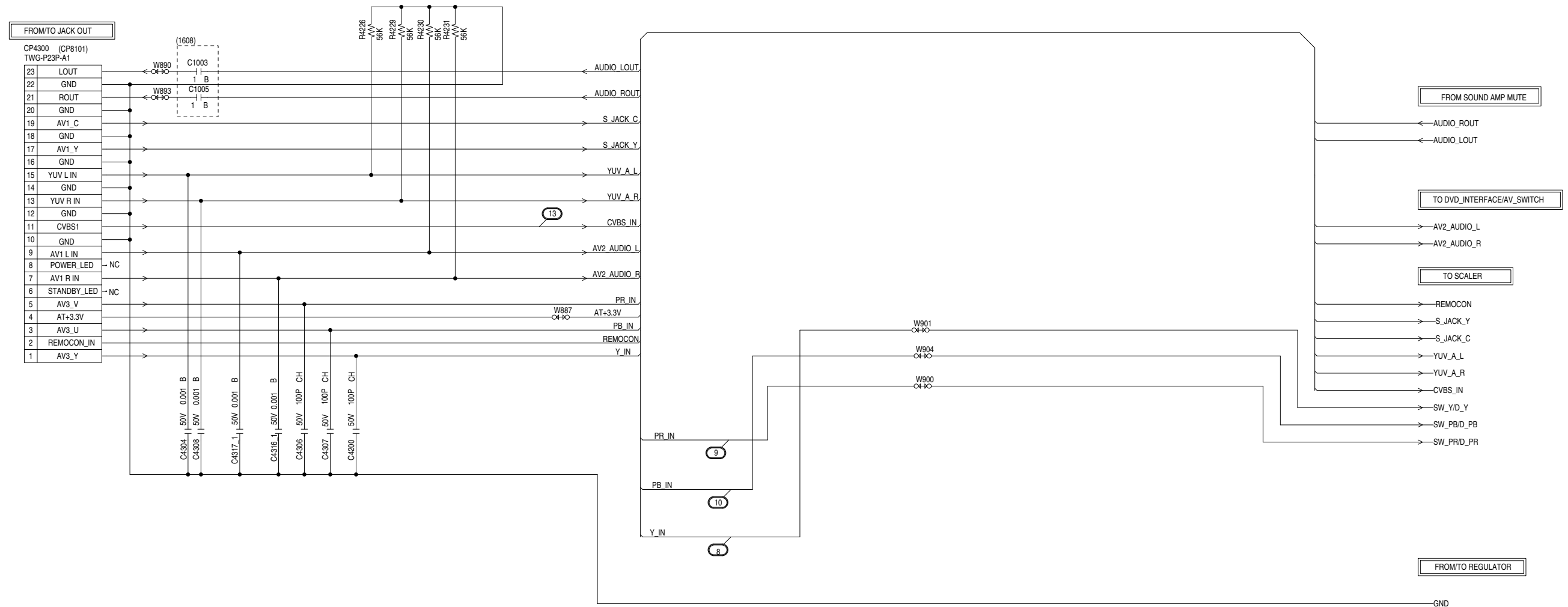
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PCBF40
CMH143

AV SWITCH SCHEMATIC DIAGRAM

(MAIN PCB)



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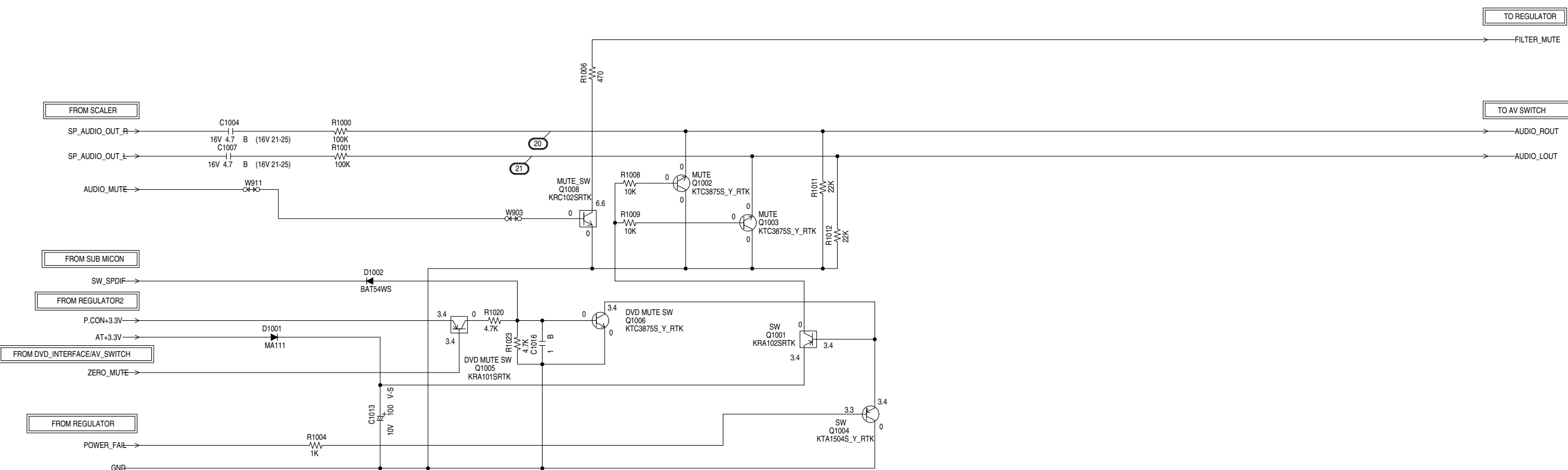
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PCBF40
CMH143

SOUND AMP MUTE SCHEMATIC DIAGRAM
(MAIN PCB)



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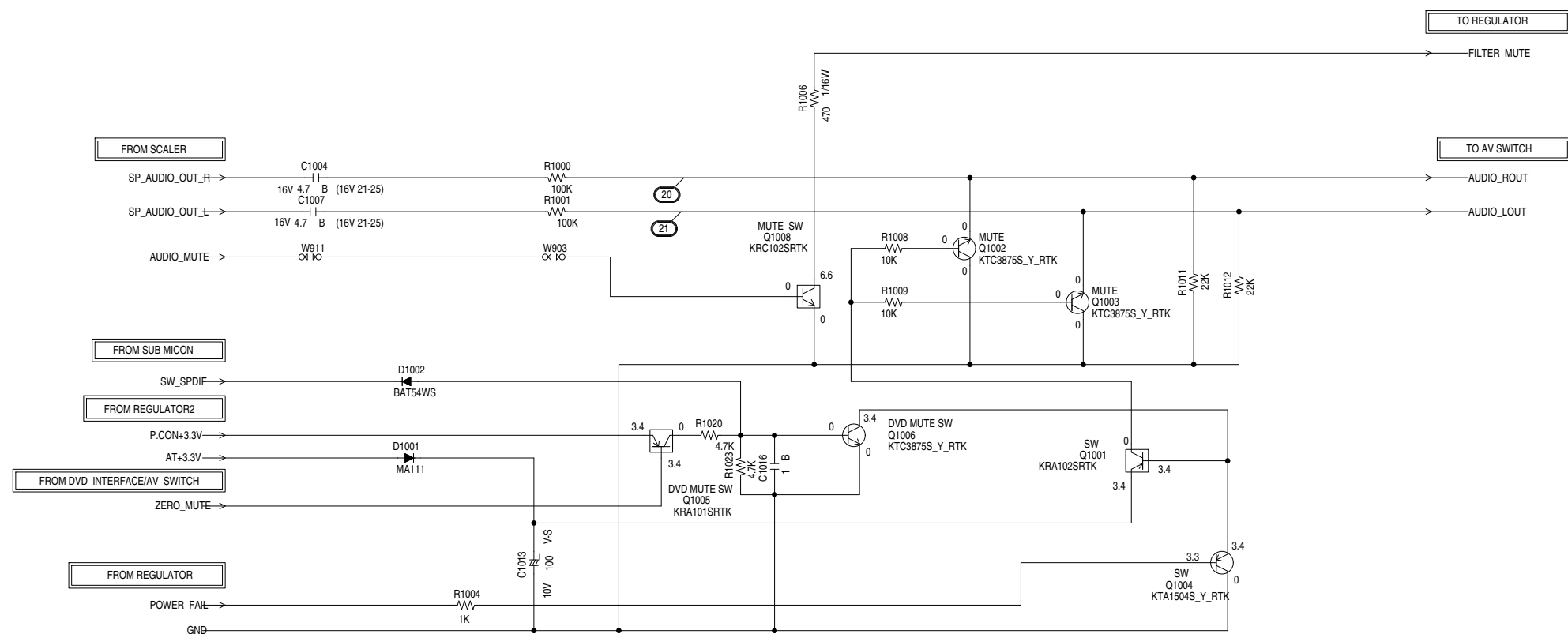
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CAUTION: DIGITAL TRANSISTOR

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PCBF40
CMH143

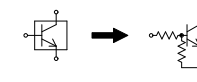
SOUND AMP MUTE SCHEMATIC DIAGRAM (MAIN PCB)



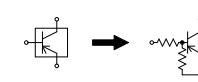
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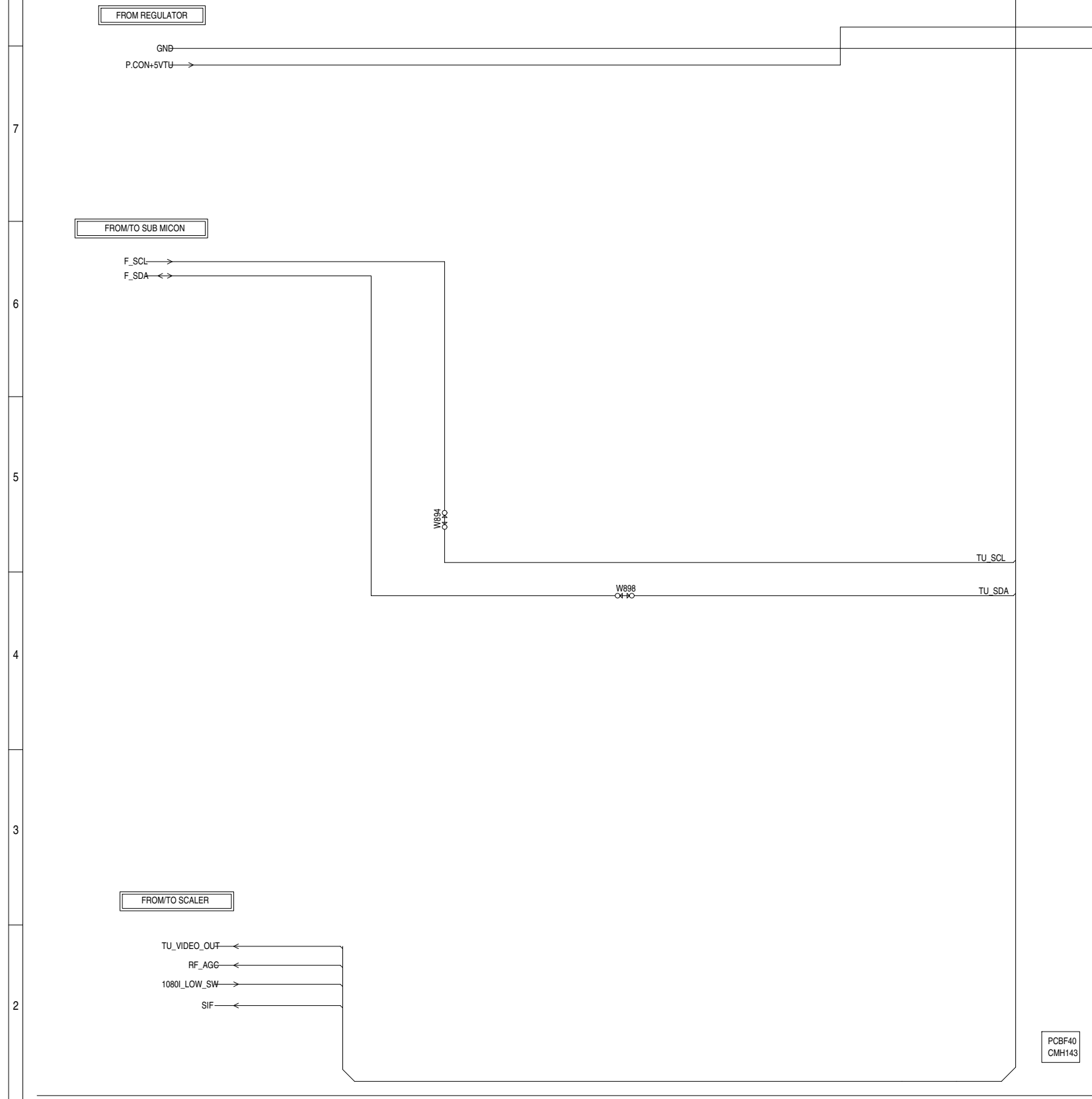
CAUTION: DIGITAL TRANSISTOR



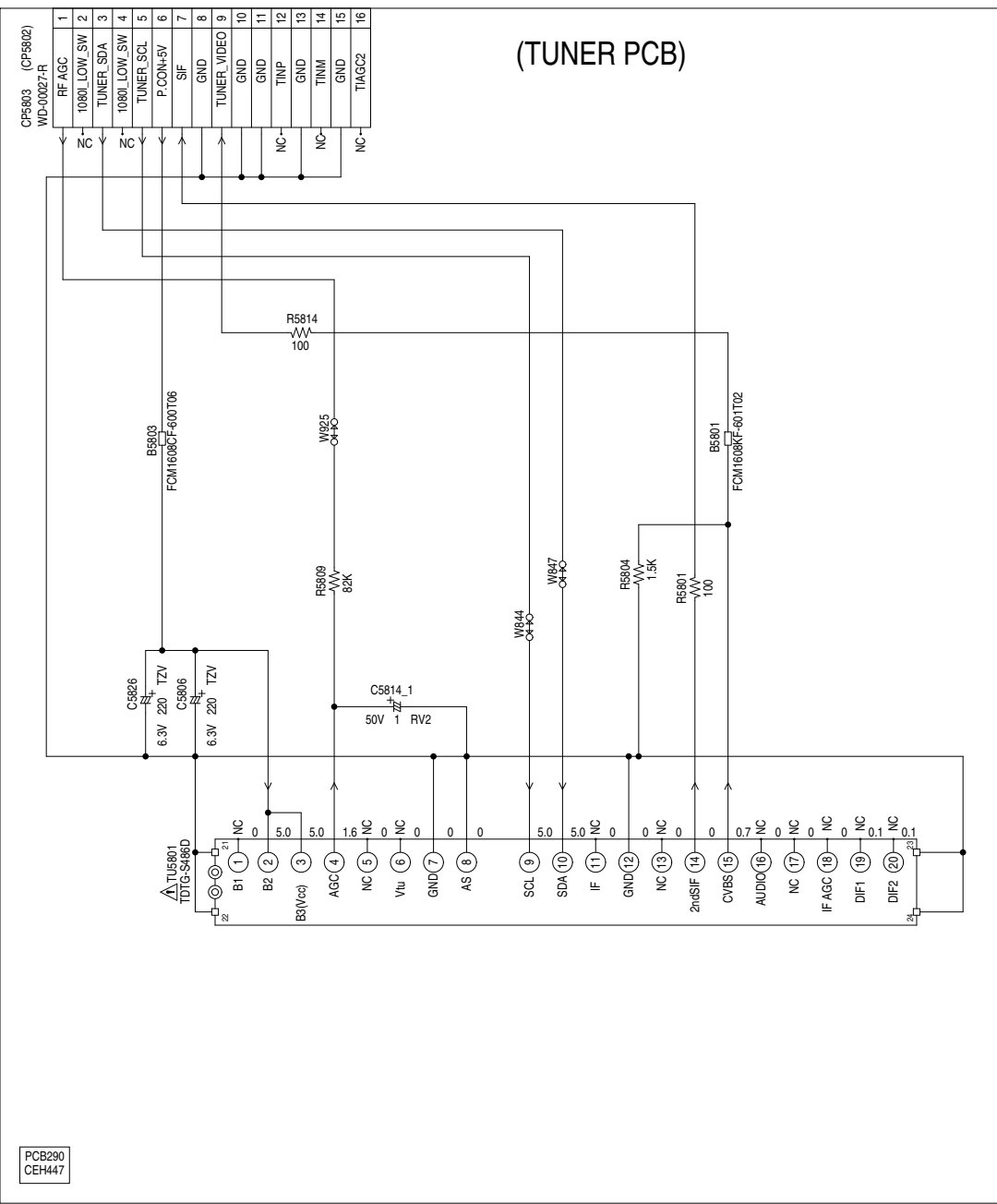
CAUTION: DIGITAL TRANSISTOR

PCBF40
CMH143

TUNER SCHEMATIC DIAGRAM
(MAIN PCB)



(TUNER PCB)



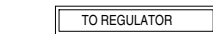
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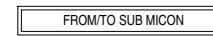
CAUTION SINCE THESE PARTS MARKED BY ARE
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TUNER SCHEMATIC DIAGRAM



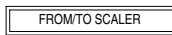
GND-

P.CON+5V_{TU} →



F_SCL →

F_SDA \longleftrightarrow



TU_VIDEO_OUT ←


RF_AGG ←

1080I_LOW_SW →

SIF ←

PCBF40
CMH143

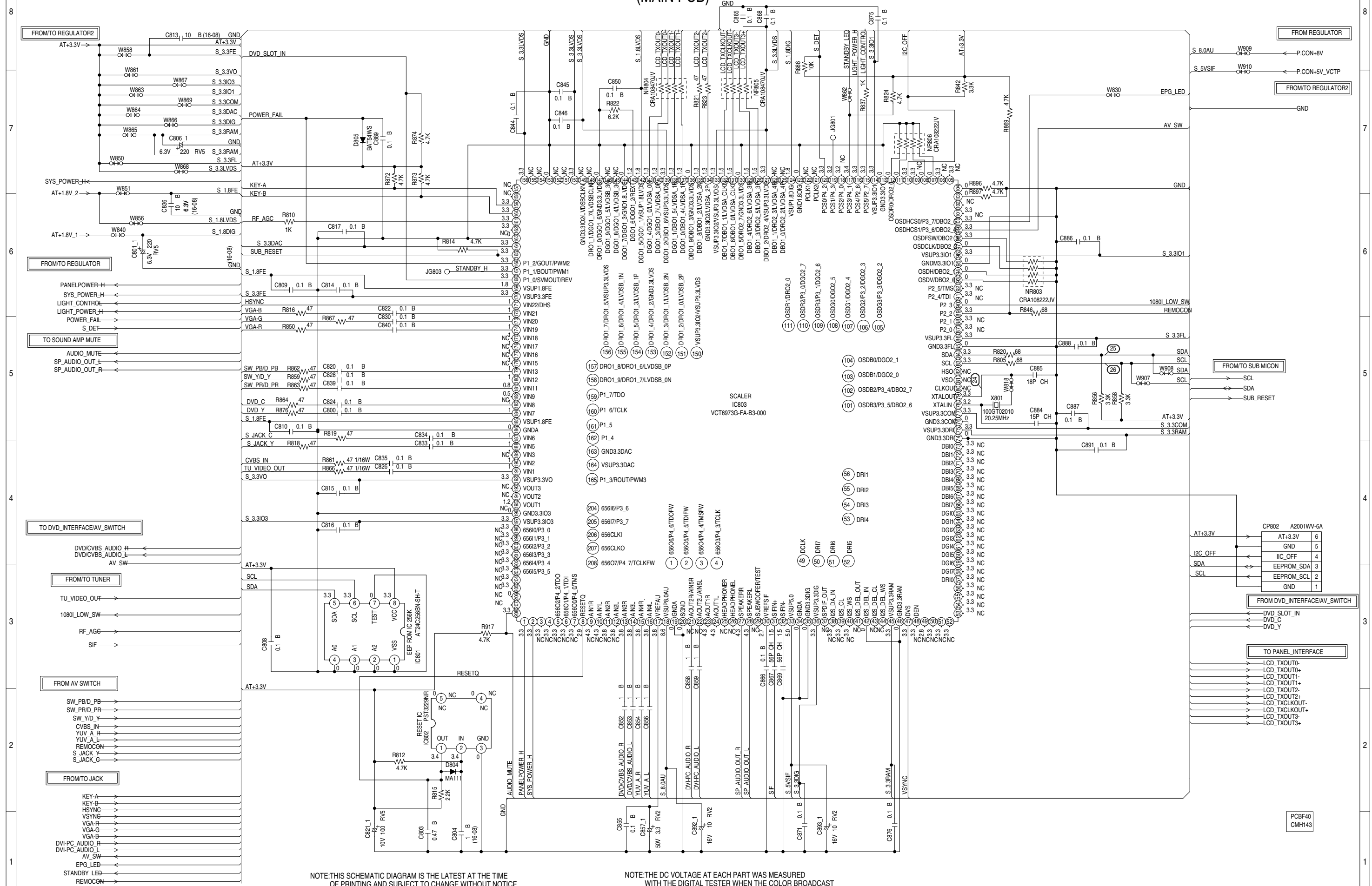
ATTENTION

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CAUTION

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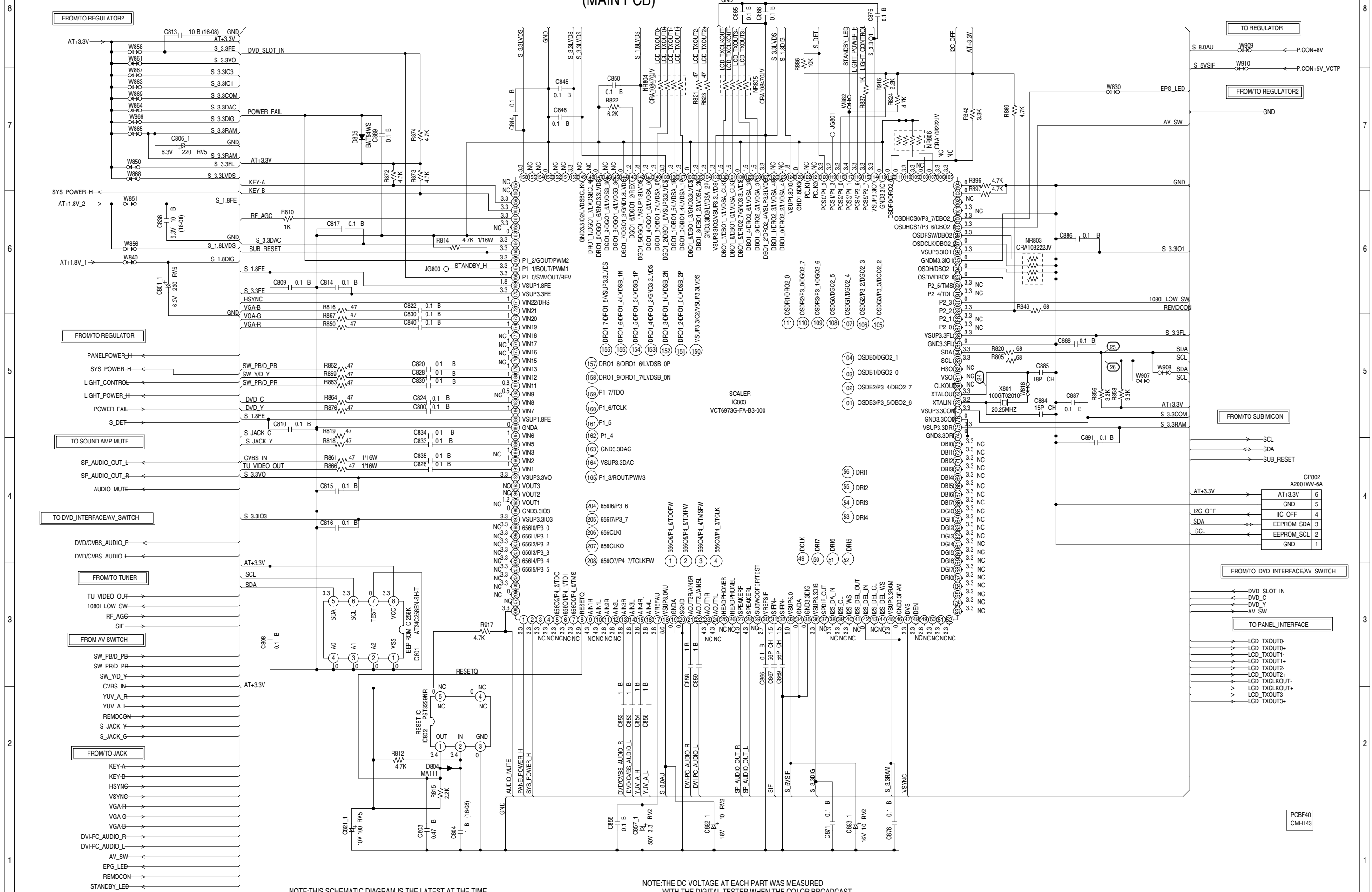
SCALER SCHEMATIC DIAGRAM (MAIN PCB)



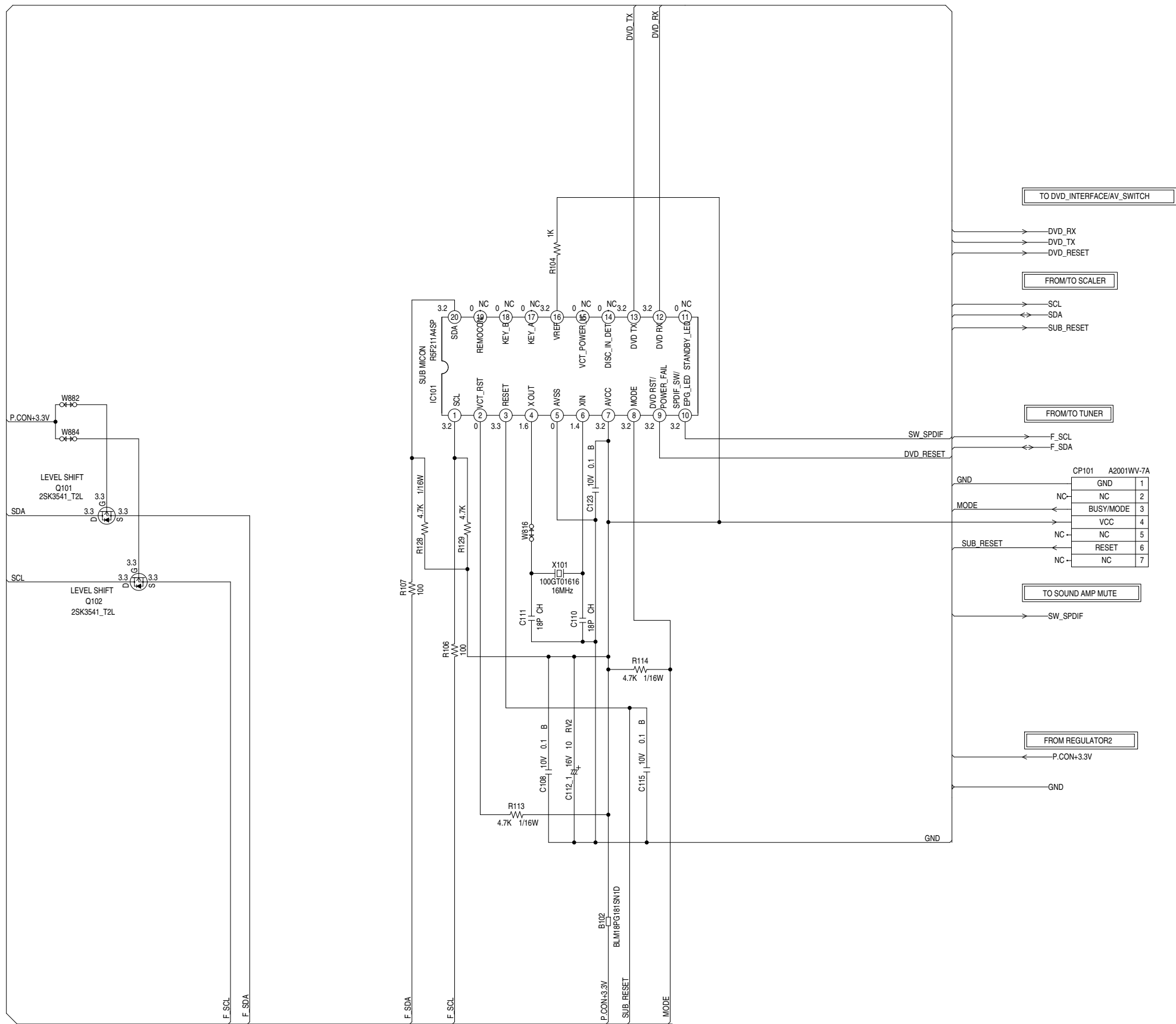
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SCALER SCHEMATIC DIAGRAM (MAIN PCB)



SUB MICON SCHEMATIC DIAGRAM
(MAIN PCB)

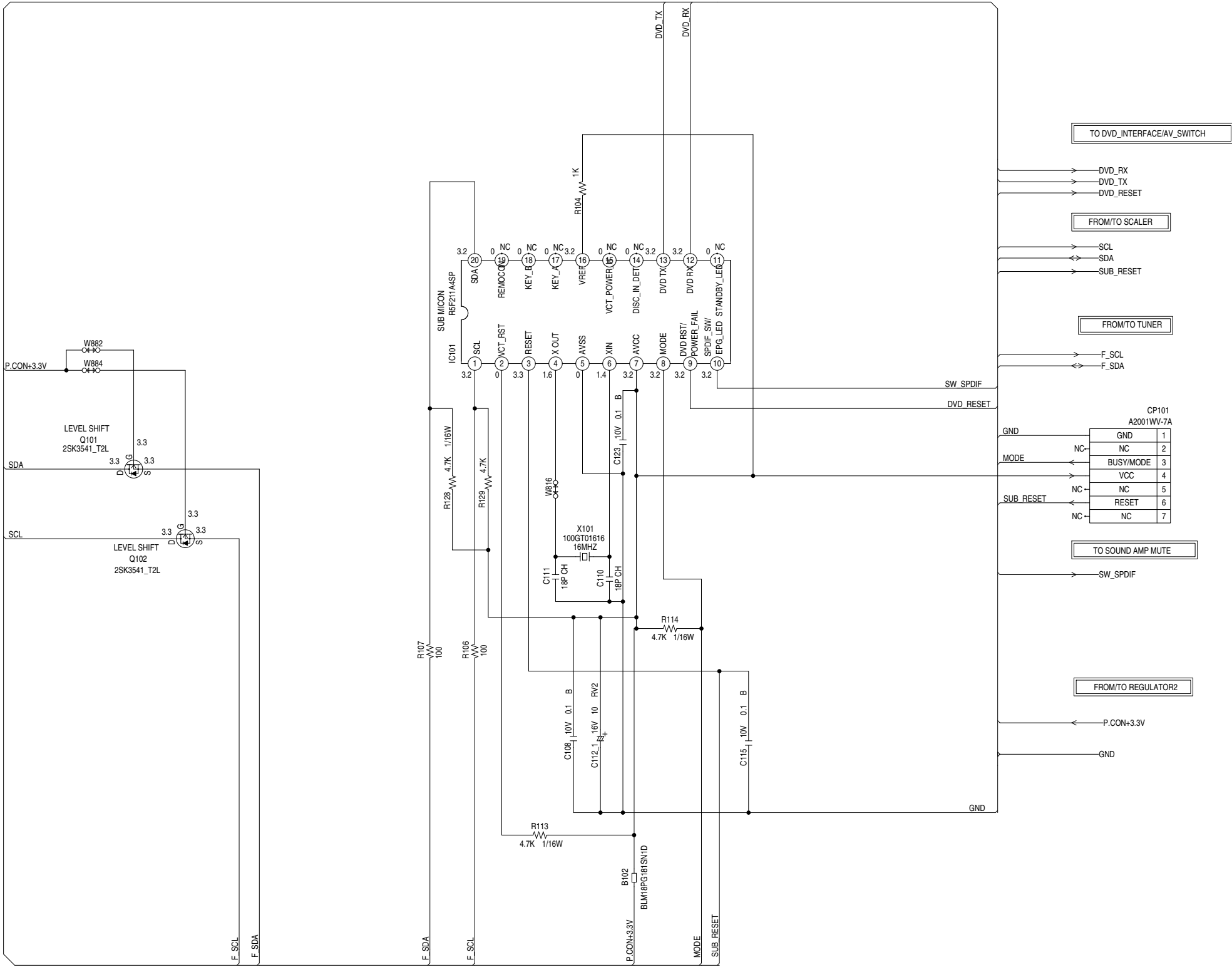


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PCBF40
CMH143

(MAIN PCB)



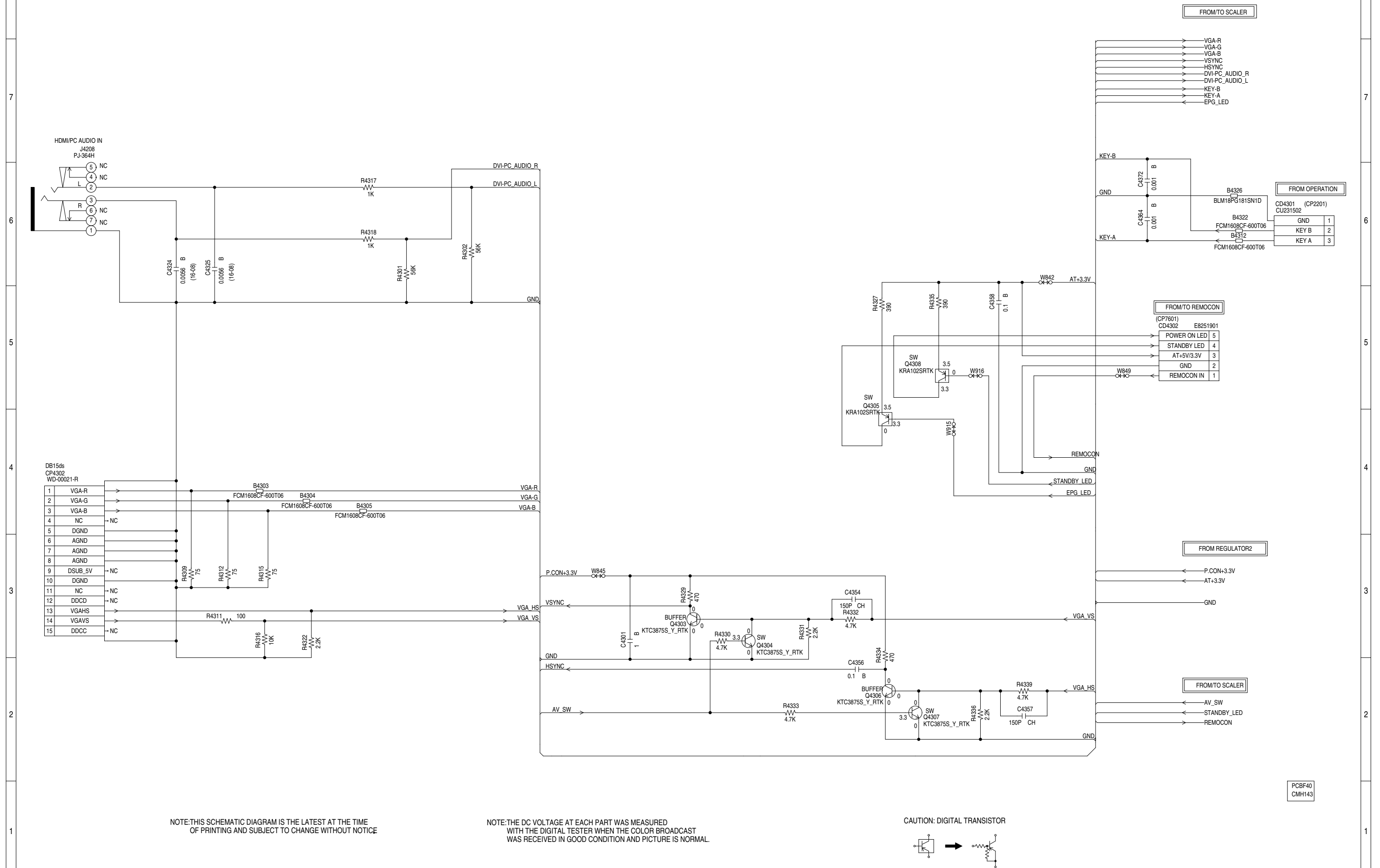
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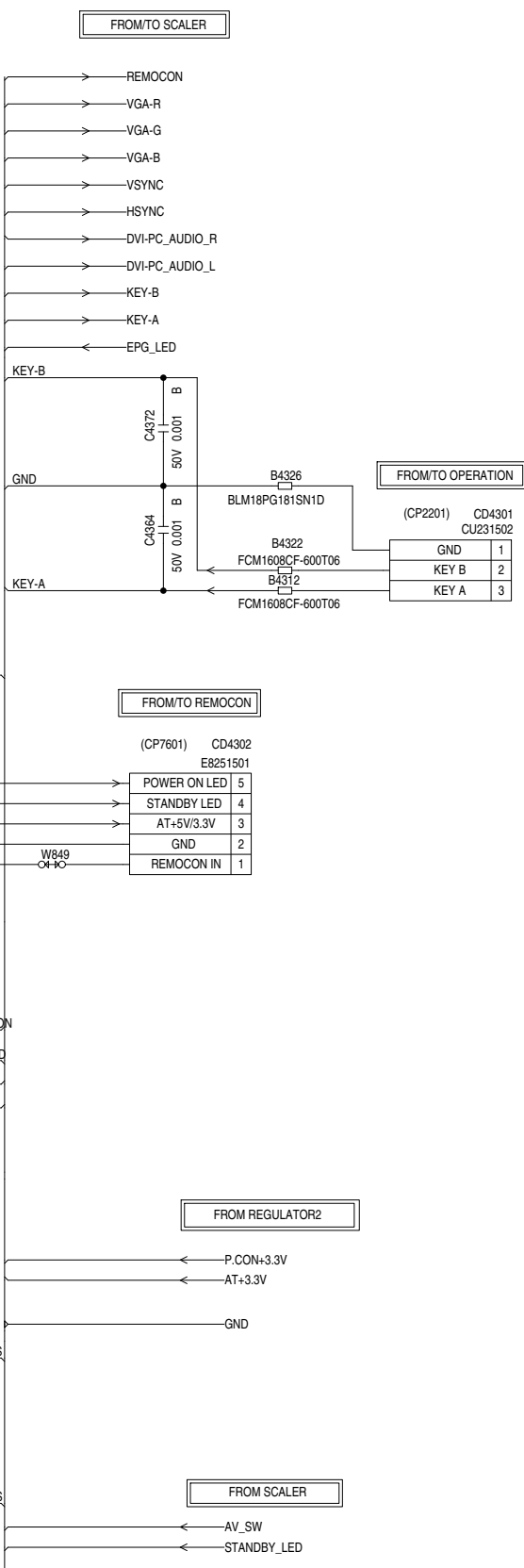
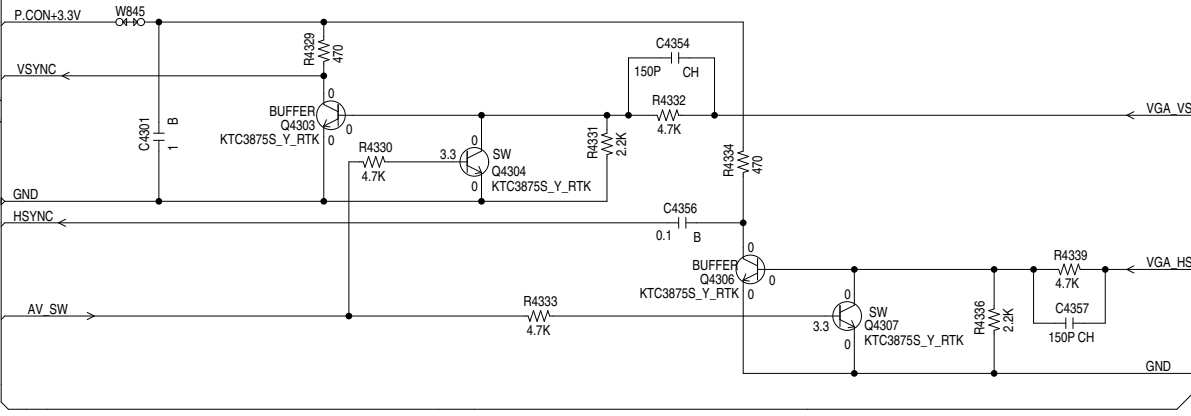
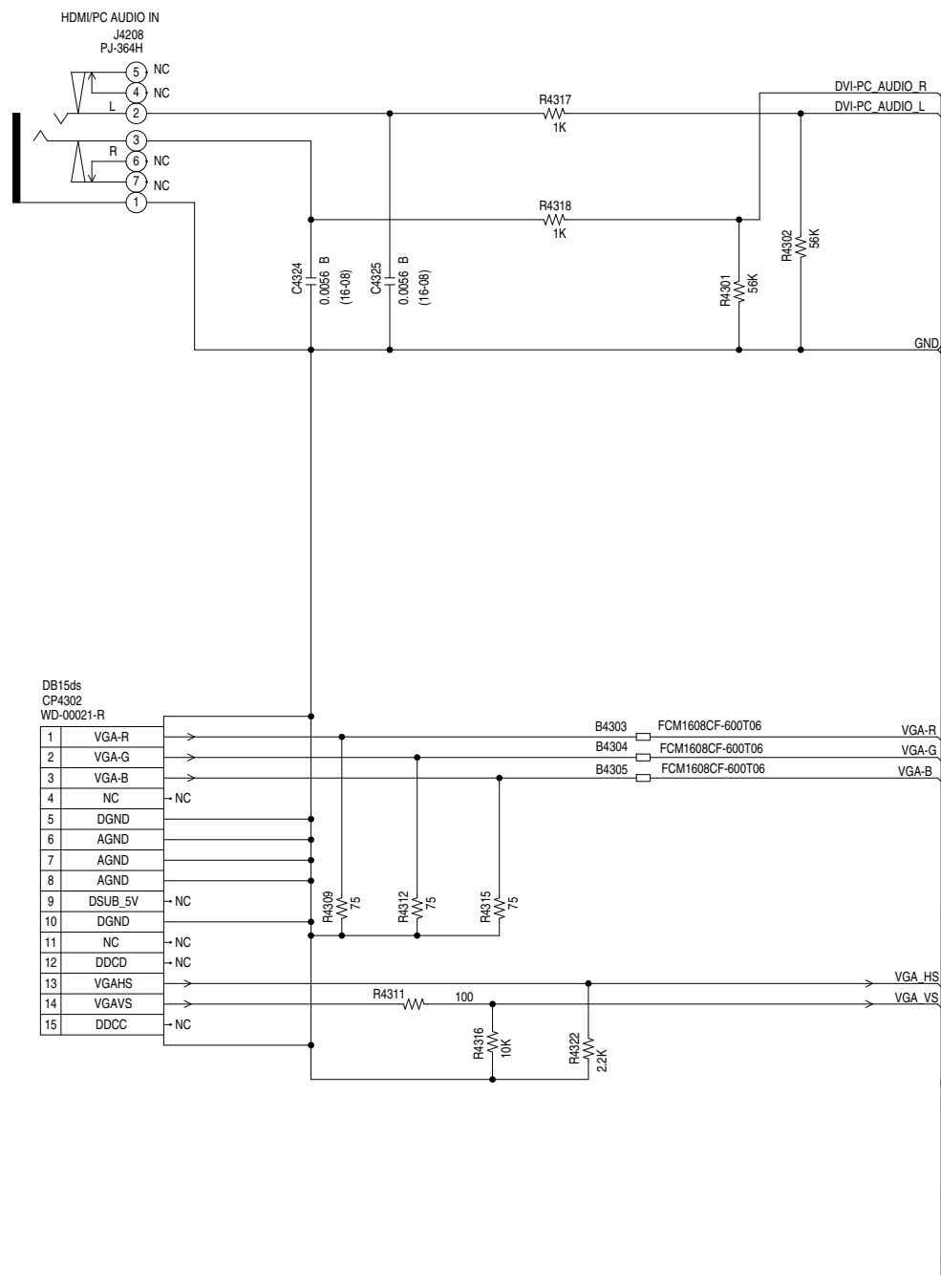
PCBF40
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JACK SCHEMATIC DIAGRAM

(MAIN PCB)



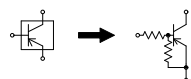
JACK SCHEMATIC DIAGRAM
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OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

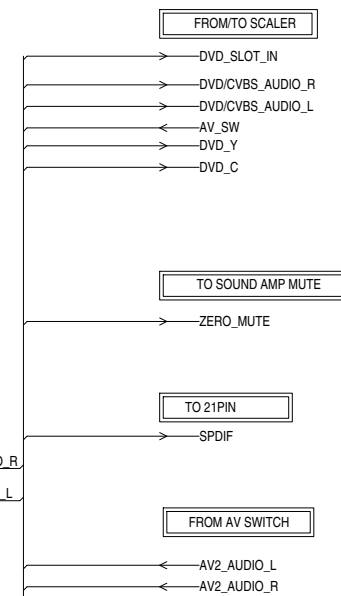
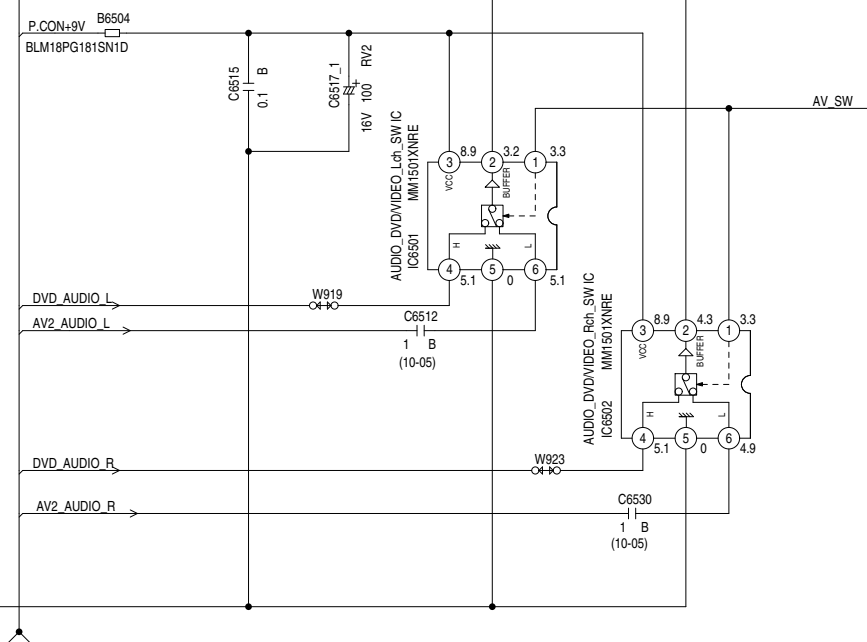
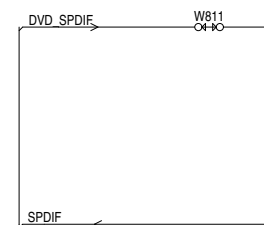
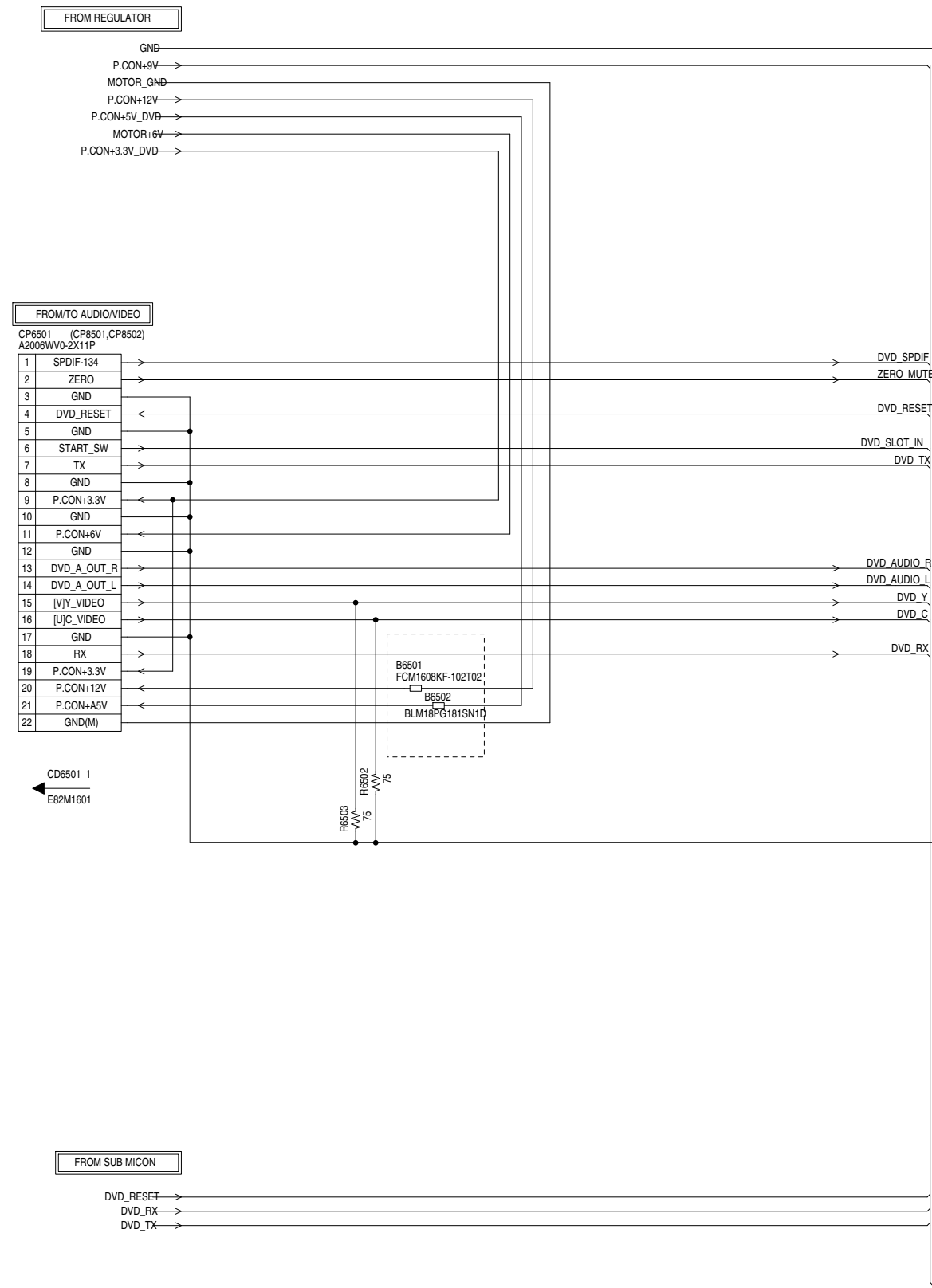
NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION: DIGITAL TRANSISTOR



PCBF40
CMH143

DVD_INTERFACE/AV_SWITCH SCHEMATIC DIAGRAM (MAIN PCB)

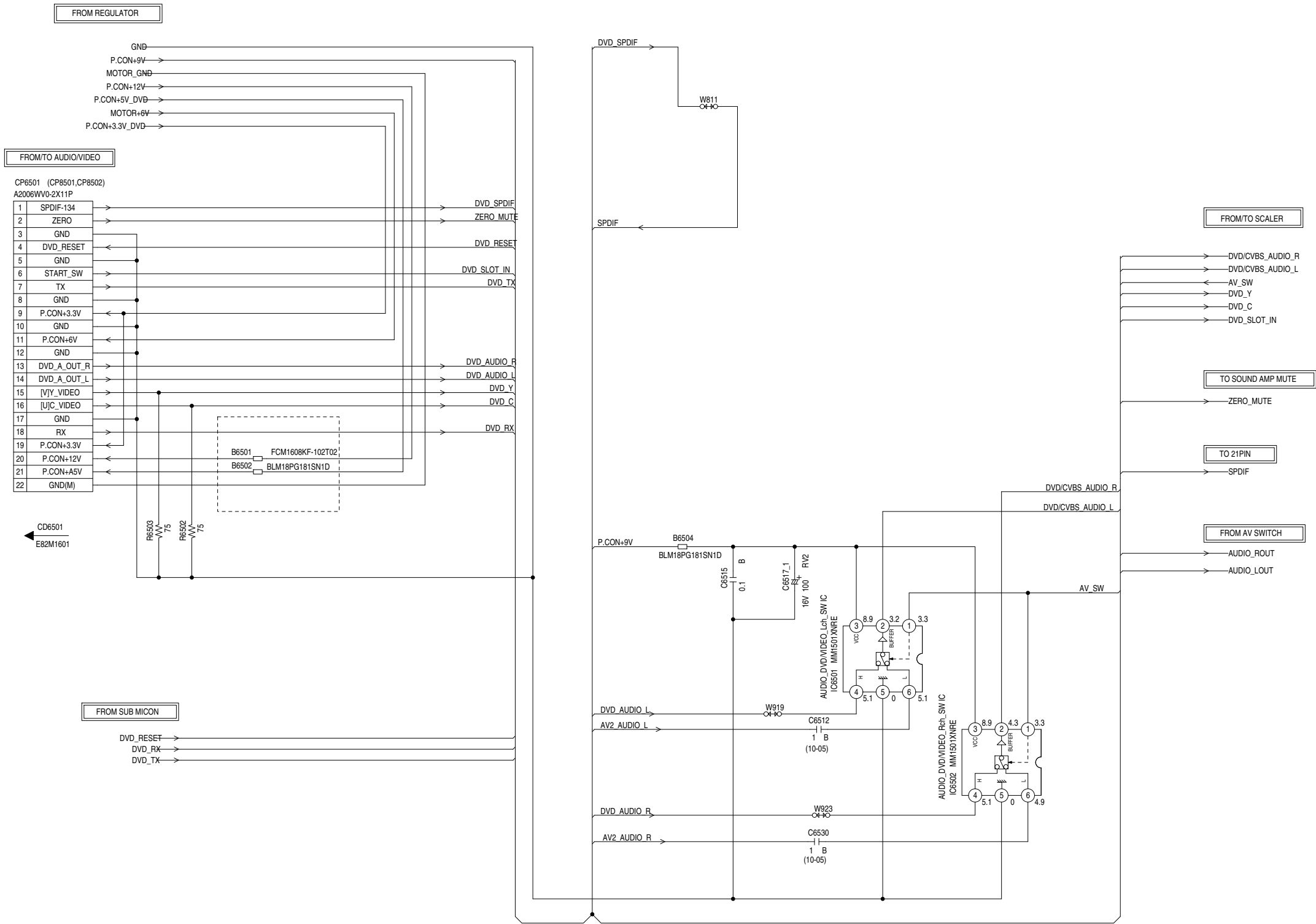


NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

PCBF40
CMH143

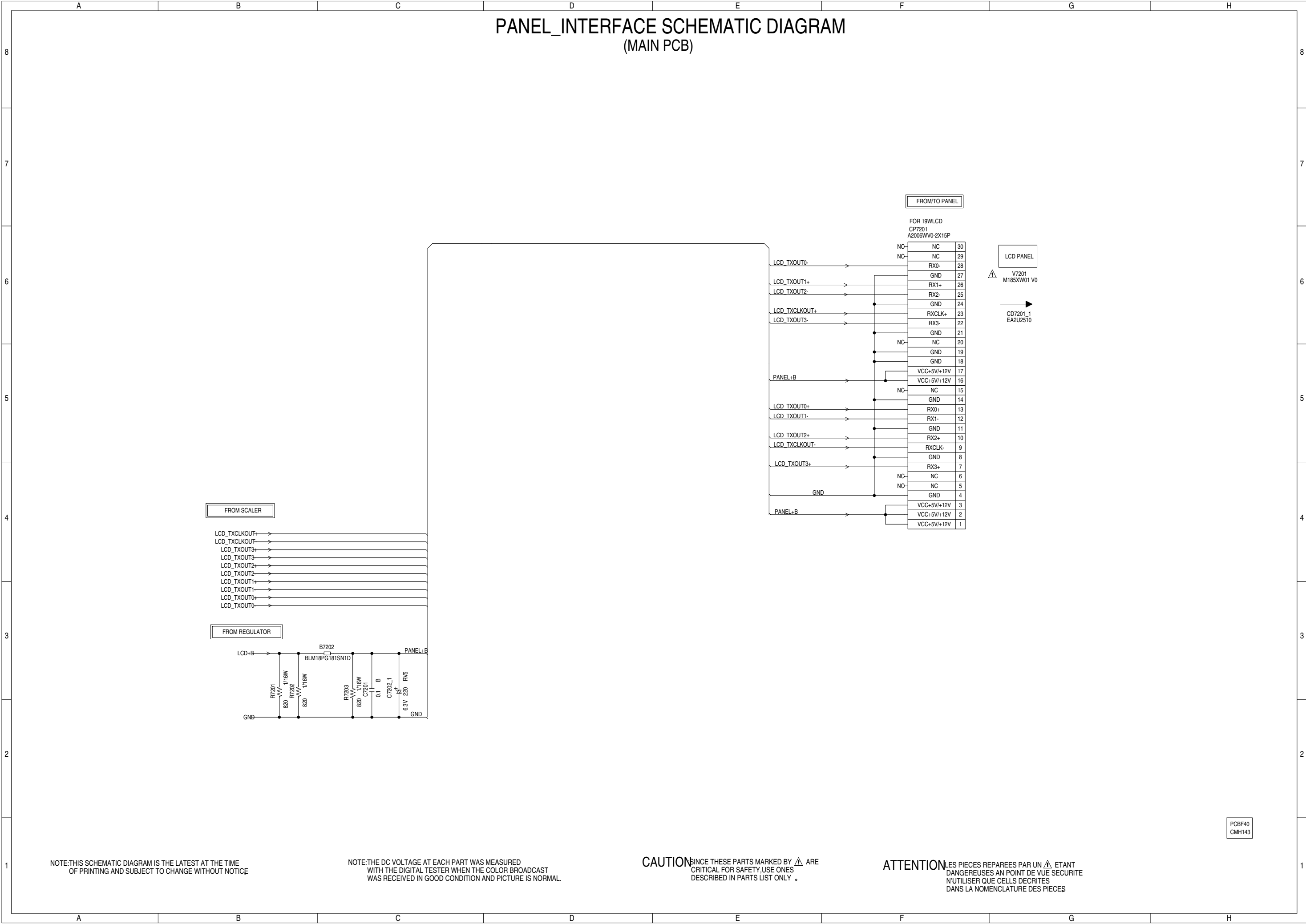
DVD_INTERFACE/AV_SWITCH SCHEMATIC DIAGRAM
(MAIN PCB)



NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE


NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.


PCBF40
CMH143



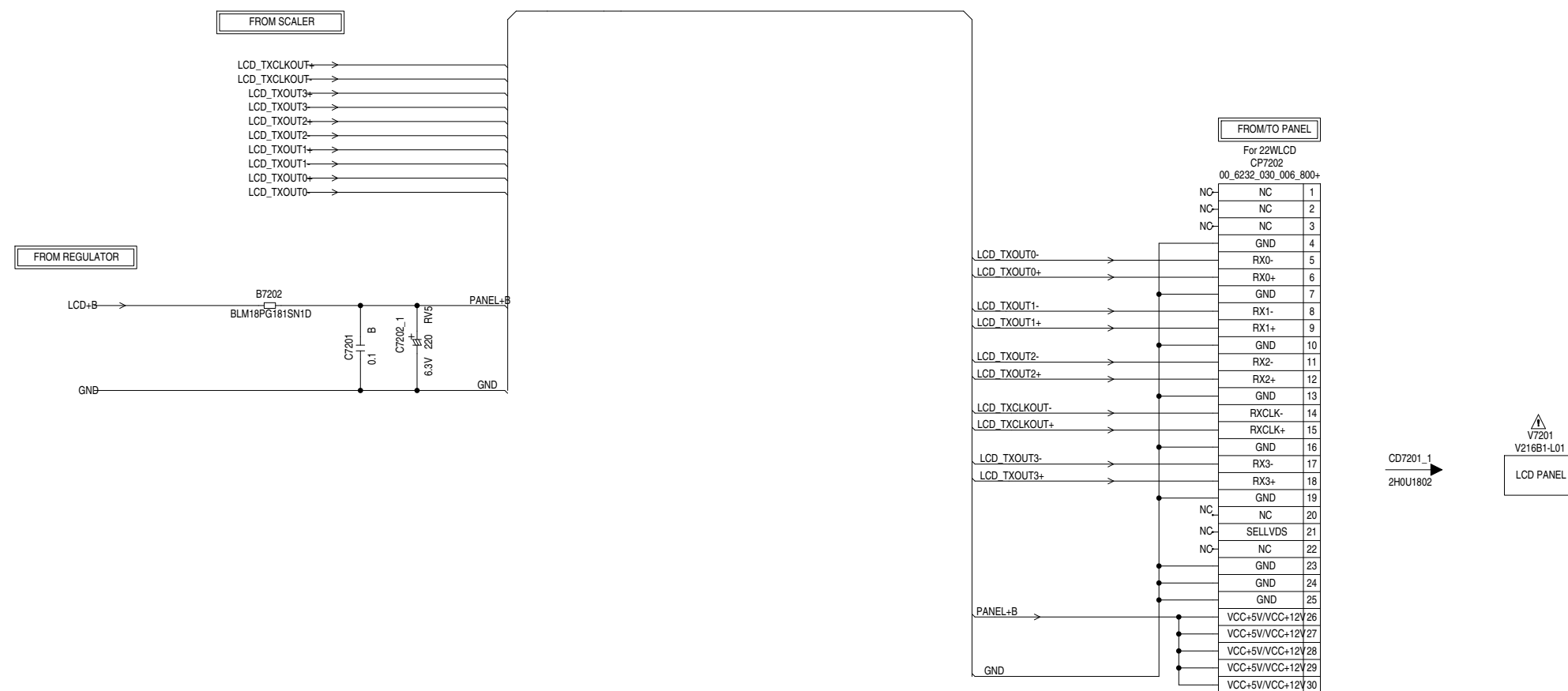
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION SINCE THESE PARTS MARKED BY  ARE
CRITICAL FOR SAFETY,USE ONES
DESCRIBED IN PARTS LIST ONLY .


ATTENTION LES PIECES REPARÉES PAR UN  ETANT
DANGEREUSES AN POINT DE VUE SECURITE
N'UTILISER QUE CELLS DECRITES
DANS LA NOMENCLATURE DES PIECES


PANEL_INTERFACE SCHEMATIC DIAGRAM



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

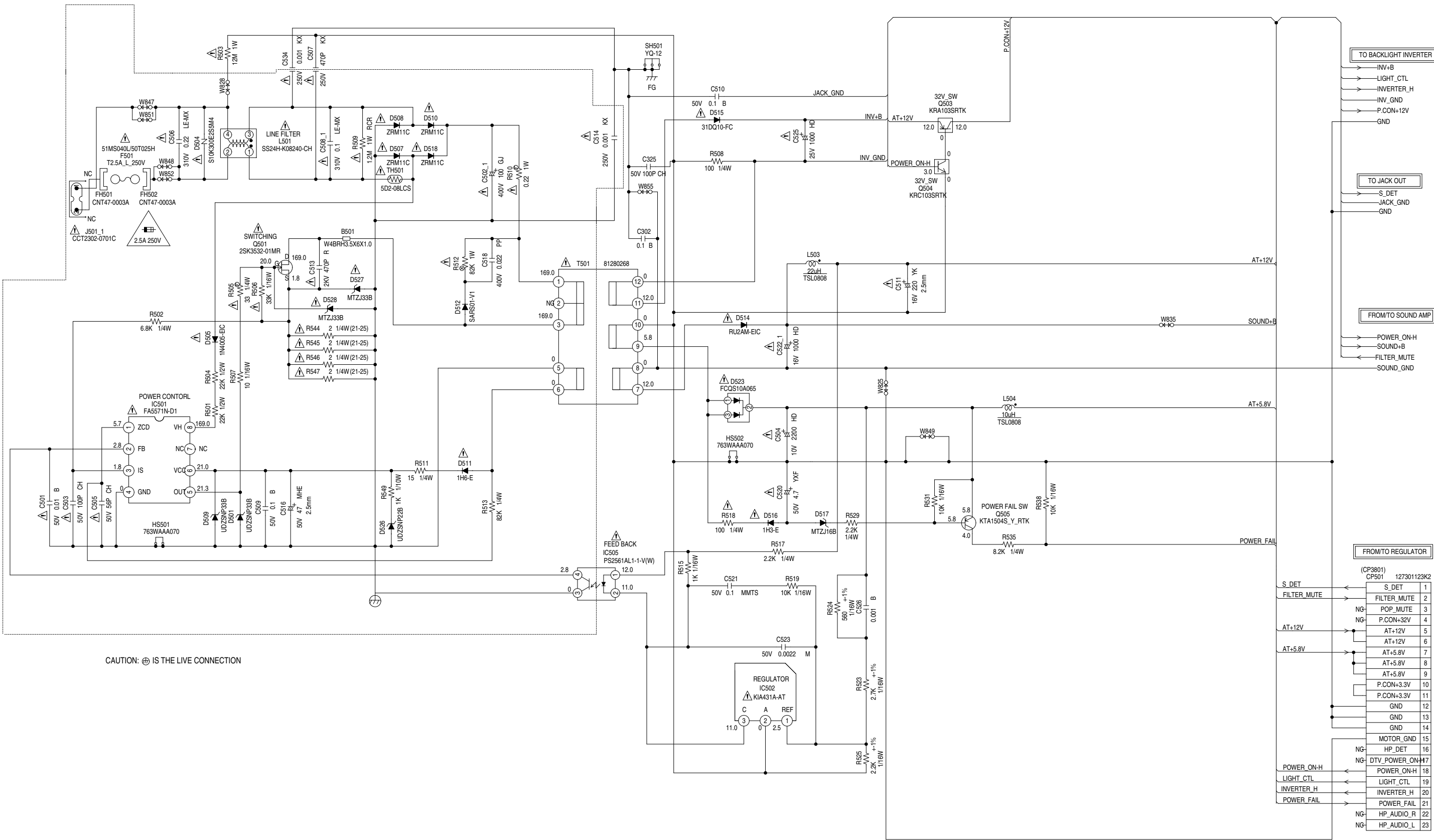
NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION SINCE THESE PARTS MARKED BY  ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

ATTENTION LES PIÈCES RÉPARÉES PAR UN  ÉTANT DANGEREUSES AU POINT DE VUE SÉCURITÉ N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES

PCBF40
CMH143

POWER SCHEMATIC DIAGRAM
(POWER PCB)



CAUTION: ⚡ IS THE LIVE CONNECTION



CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE FUSE 2.5A 250V (F501.)

ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D'INCEIE
N'UTILISER QUE DES FUSIBLE DE MEME TYPE 2.5A 250V (F501.)

NOTE: THE RESISTOR MARKED F IS FUSE RESISTOR.
THE ALUMI ELECTROLYTIC CAPACITOR MARKED NP
IS NON POLAR ONE.

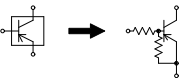
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL

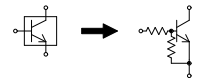
CAUTION: SINCE THESE PARTS MARKED BY ⚡ ARE
CRITICAL FOR SAFETY, USE ONES
DESCRIBED IN PARTS LIST ONLY

ATTENTION: LES PIECES REPARÉES PAR UN ⚡ ETANT
DANGEREUSES AN POINT DE VUE SECURITE
N'UTILISER QUE CELLES DECRITES
DANS LA NOMENCLATURE DES PIECES

CAUTION: DIGITAL TRANSISTOR



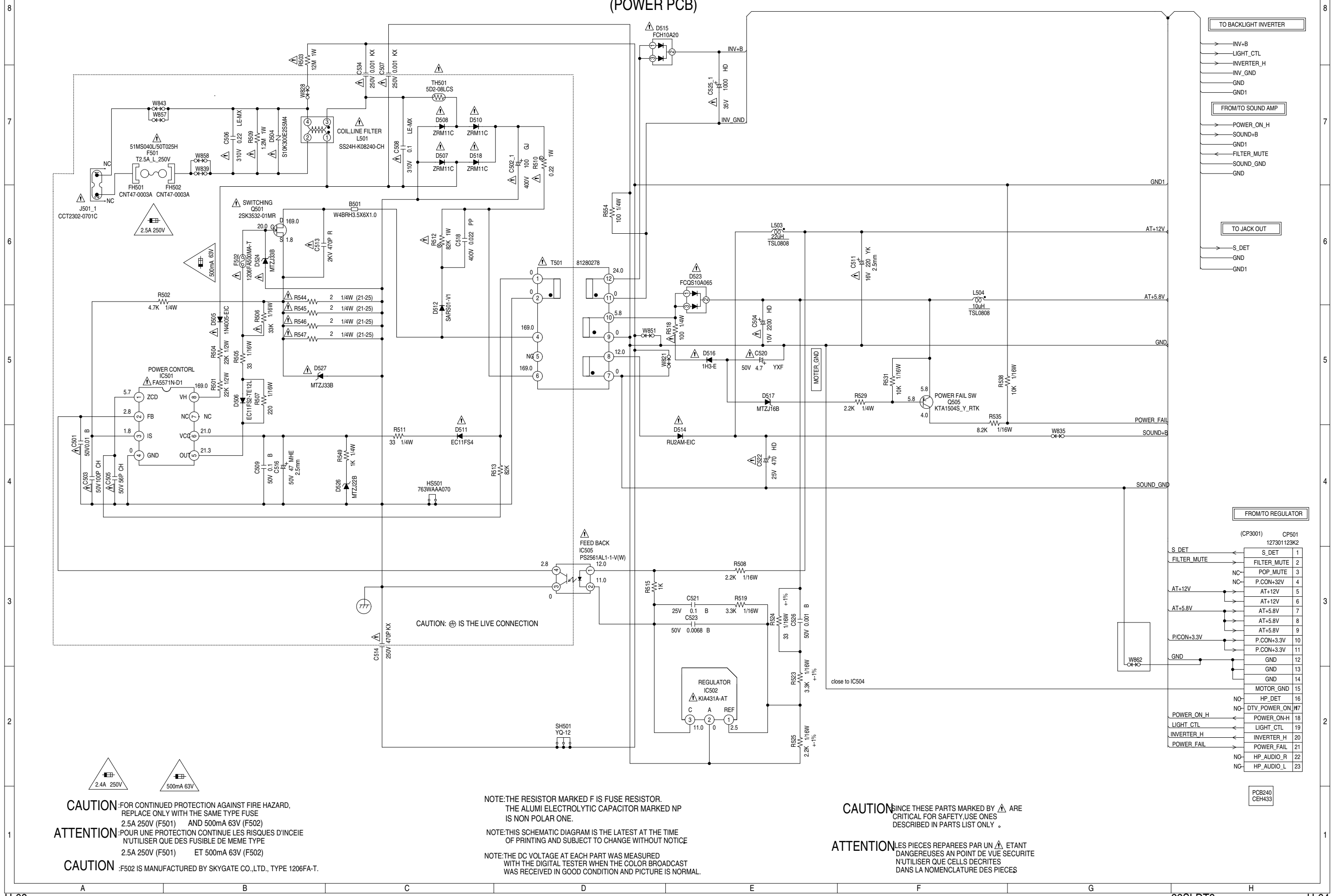
CAUTION: DIGITAL TRANSISTOR



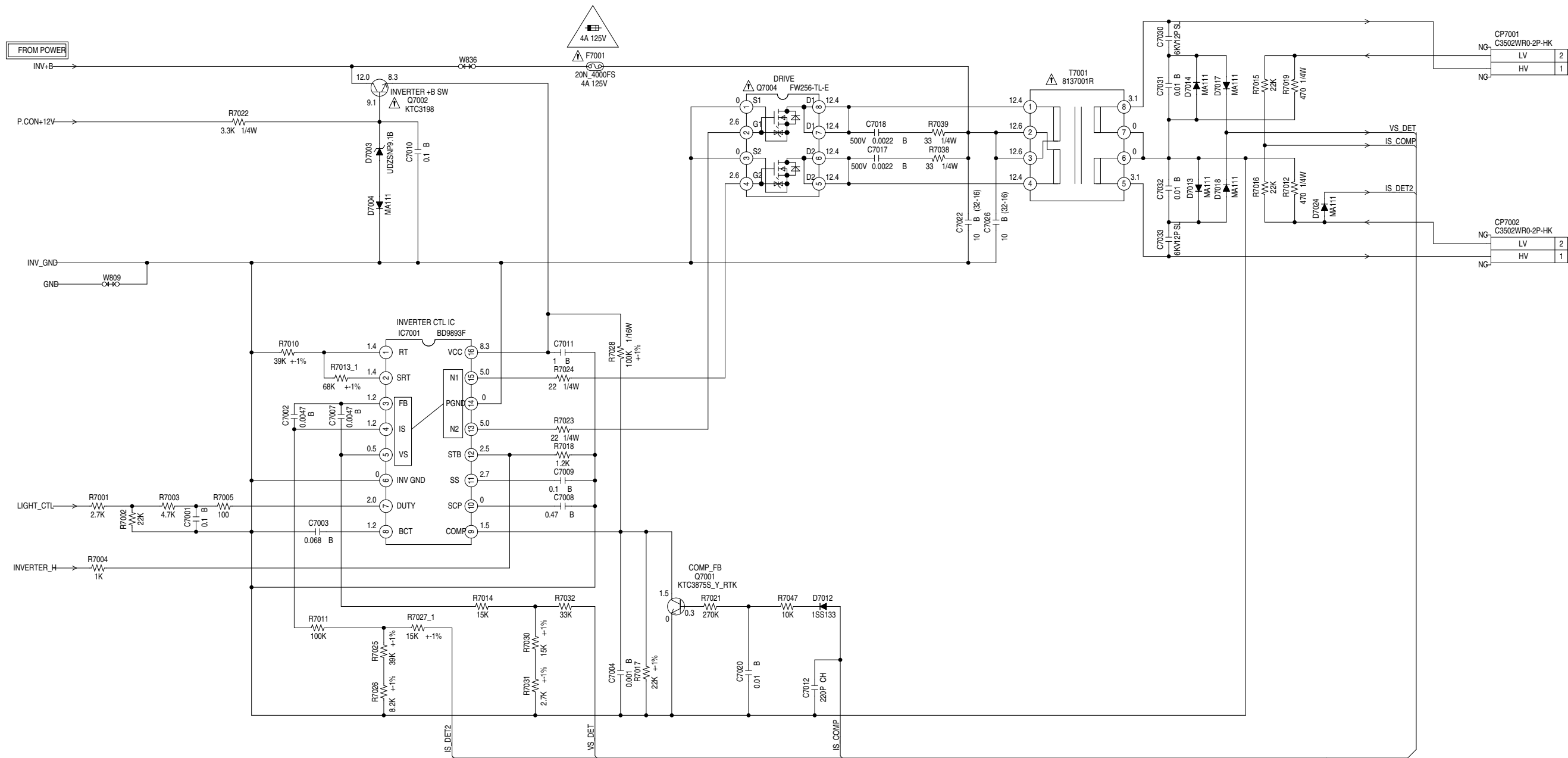
FROM TO REGULATOR	
CP3801	127301123K2
CP501	
S_DET	1
FILTER_MUTE	2
POP_MUTE	3
P.CON+32V	4
AT+12V	5
AT+12V	6
AT+5.8V	7
AT+5.8V	8
P.CON+3.3V	9
P.CON+3.3V	10
GND	11
GND	12
GND	13
GND	14
MOTOR_GND	15
HP_DET	16
DTV_POWER_ON+H	17
POWER_ON+H	18
LIGHT_CTL	19
INVERTER_H	20
POWER_FAIL	21
HP_AUDIO_R	22
HP_AUDIO_L	23

PCB240
CEH434

POWER SCHEMATIC DIAGRAM (POWER PCB)



BACKLIGHT INVERTER SCHEMATIC DIAGRAM
(POWER PCB)



CAUTION:FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE FUSBA 125V(F7001)

ATTENTION:POUR UNE PROTECTION CONTINUE LES RISQUES D'INCEIE
N'UTILISER QUE DES FUSIBLE DE MEME TYPE 4A 125V(F7001)

CAUTION:F7001 IS MANUFACTURED BY SKYGATE CO.,LTD., TYPE 20N.

NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

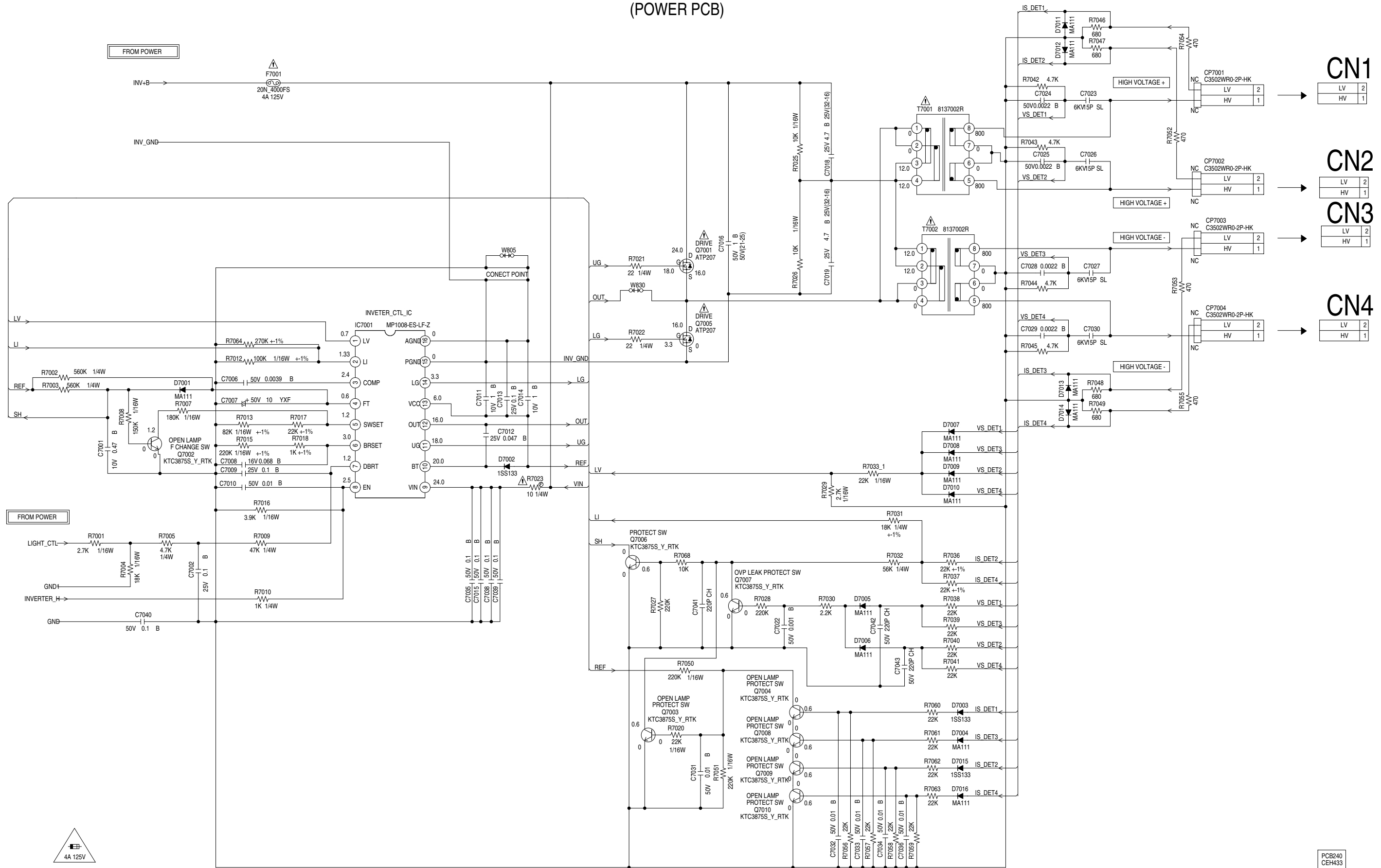
NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION:SINCE THESE PARTS MARKED BY ARE
CRITICAL FOR SAFETY,USE ONES
DESCRIBED IN PARTS LIST ONLY .

ATTENTION:LES PIECES REPARÉES PAR UN ETANT
DANGEREUSES AN POINT DE VUE SECURITE
N'UTILISER QUE CELLS DECRITES
DANS LA NOMENCLATURE DES PIECES

PCB240
CEH434

BACKLIGHT INVERTER SCHEMATIC DIAGRAM (POWER PCB)



CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE FUSE 4A 125V(F7001)

ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D'INCENDIE
N'UTILISER QUE DES FUSIBLES DE MEME TYPE 4A 125V(F7001)

CAUTION: F7001 IS MANUFACTURED BY SKYGATE CO.,LTD., TYPE 20N.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

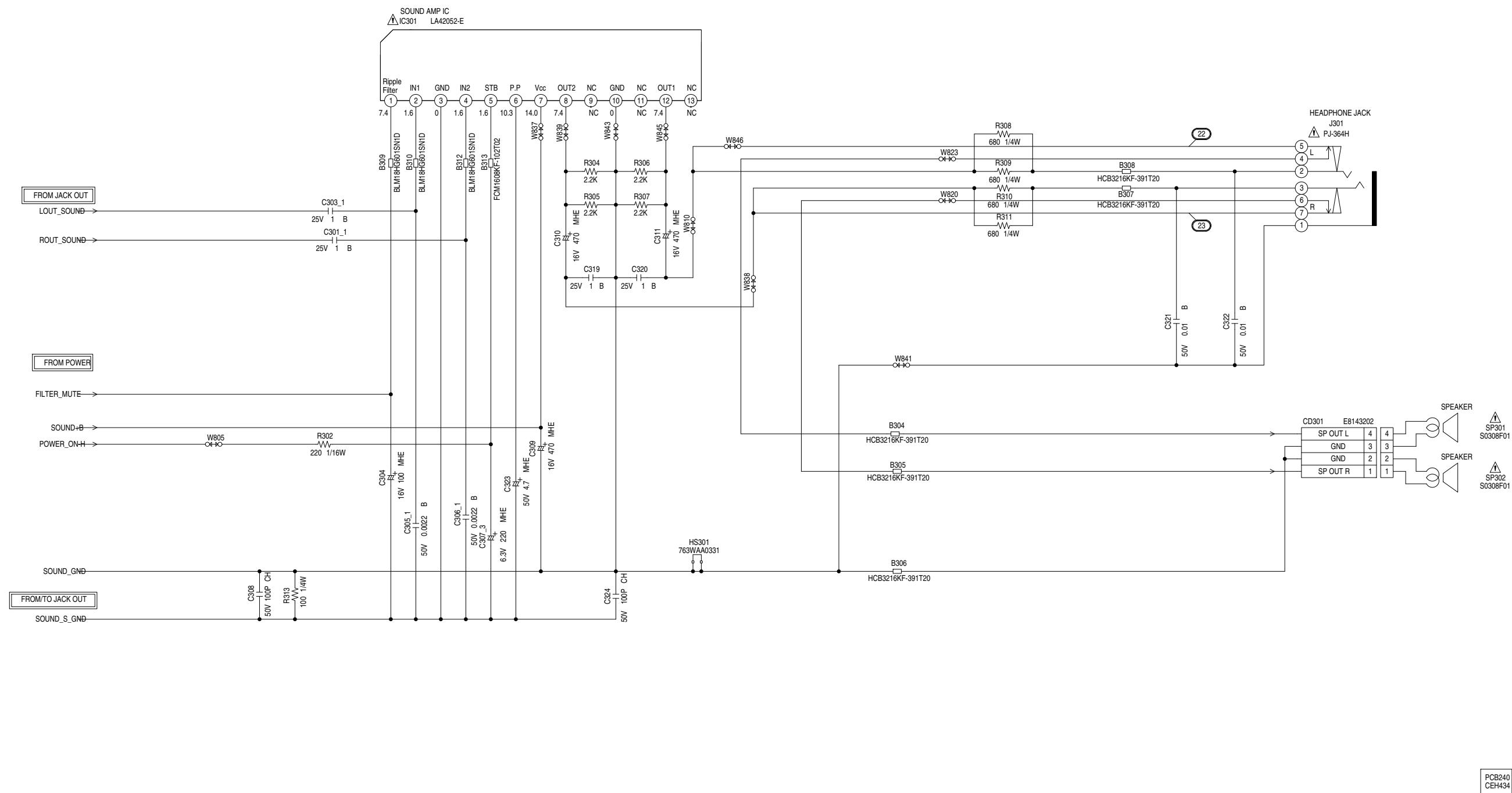
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION: SINCE THESE PARTS MARKED BY ARE
CRITICAL FOR SAFETY, USE ONES
DESCRIBED IN PARTS LIST ONLY.

ATTENTION: LES PIECES REPARÉES PAR UN ETANT
DANGEREUSES AU POINT DE VUE SECURITE
N'UTILISER QUE CELLES DECRITES
DANS LA NOMENCLATURE DES PIECES


NOTE: THE RESISTOR MARKED F IS FUSE RESISTOR.
THE ALUMI ELECTROLYTIC CAPACITOR MARKED NP
IS NON POLAR ONE.


SOUND AMP SCHEMATIC DIAGRAM
(POWER PCB)



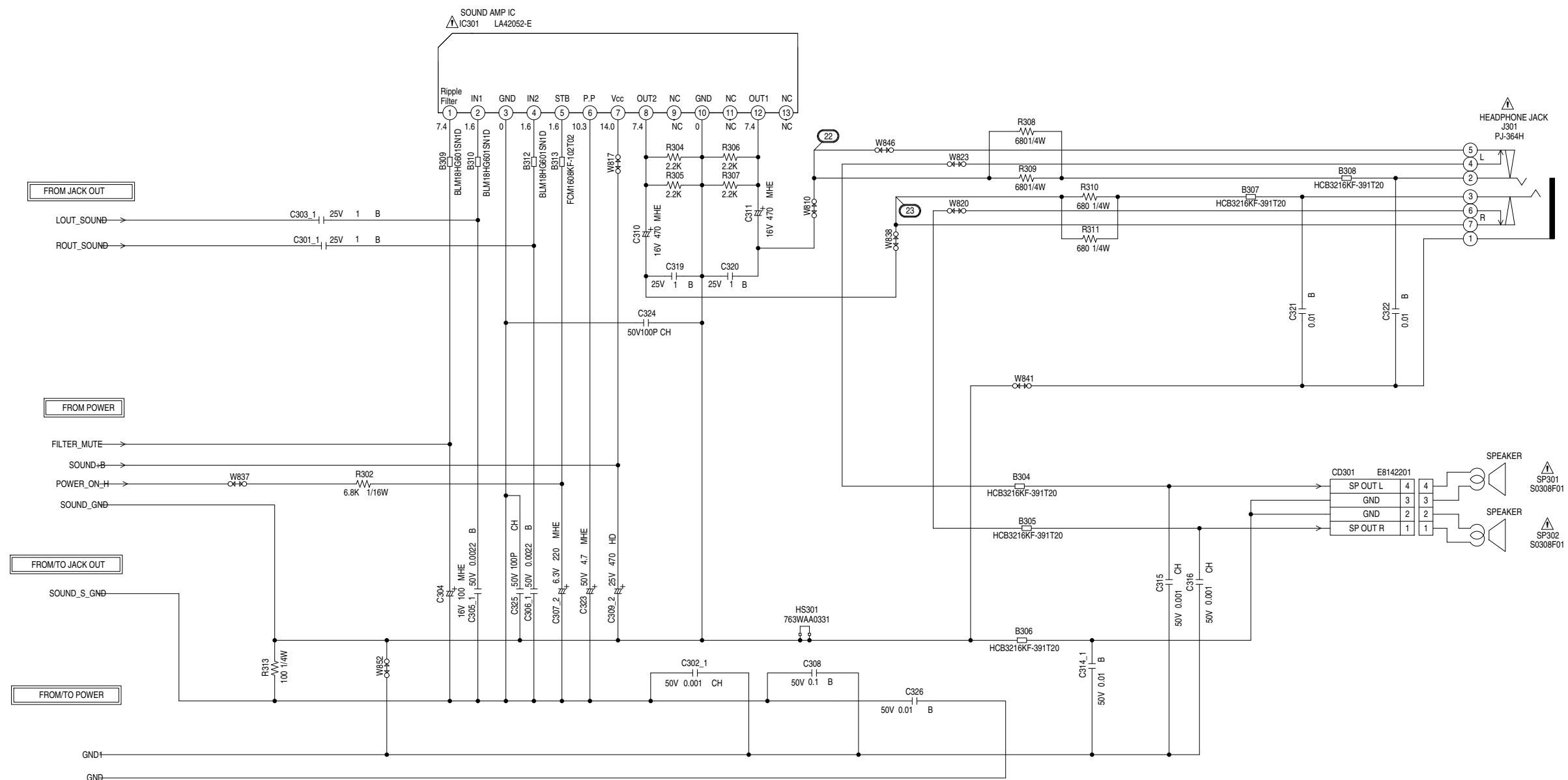
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION SINCE THESE PARTS MARKED BY  ARE
CRITICAL FOR SAFETY,USE ONES
DESCRIBED IN PARTS LIST ONLY .

ATTENTION LES PIECES REPARÉES PAR UN  ÉTANT
DANGEREUSES AN POINT DE VUE SECURITE
N'UTILISER QUE CELLS DECRITES
DANS LA NOMENCLATURE DES PIECES

SOUND AMP SCHEMATIC DIAGRAM (POWER PCB)



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

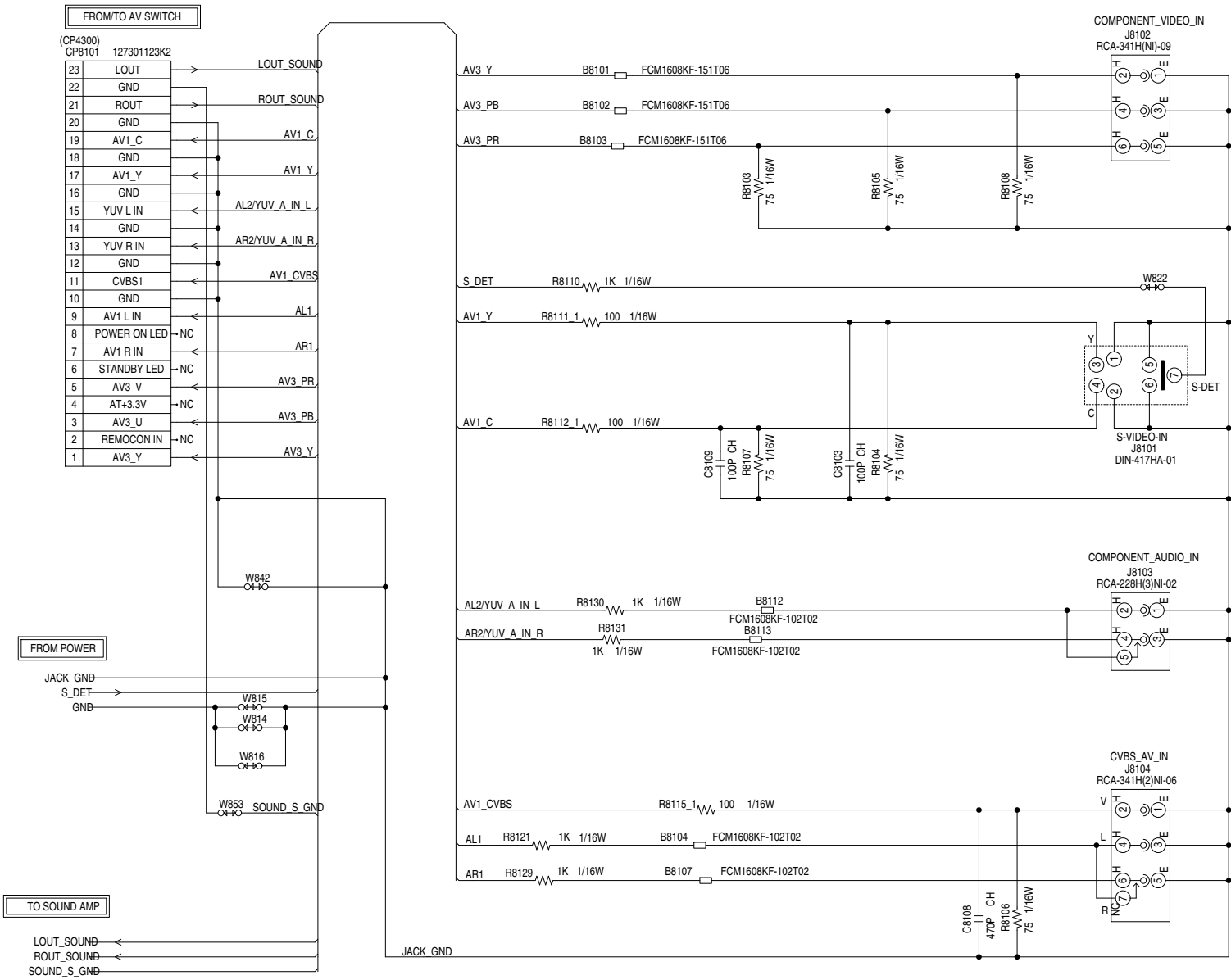
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

ATTENTION LES PIECES REPARÉES PAR UN ÉTANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES

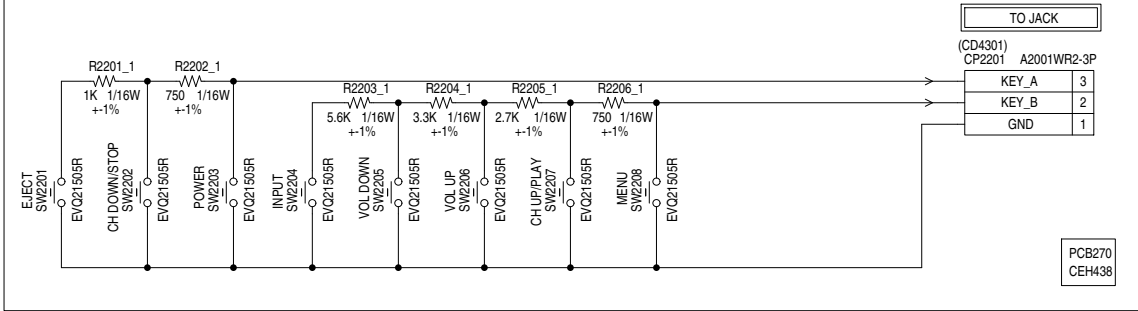
PCB240
CEH433

JACK OUT SCHEMATIC DIAGRAM
(POWER PCB)

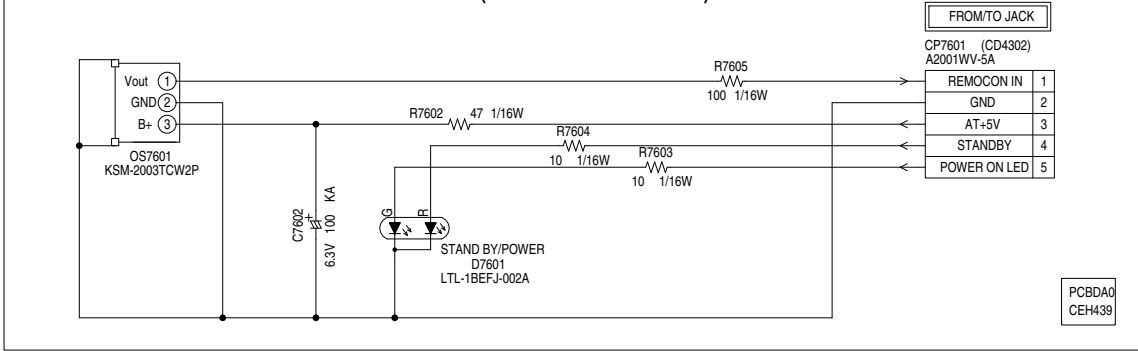


NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

(OPERATION PCB)

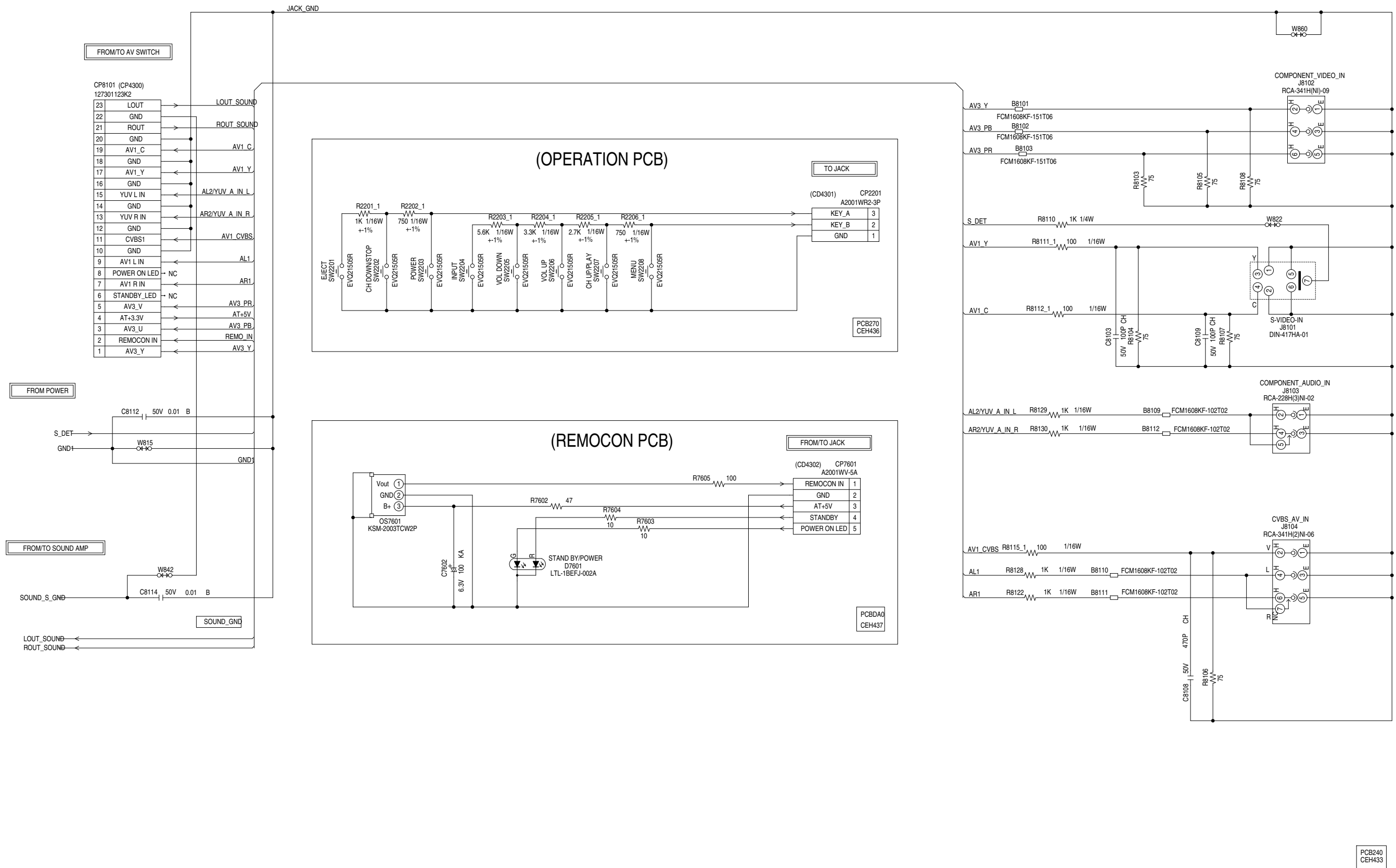


(REMOCON PCB)



NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

JACK OUT SCHEMATIC DIAGRAM
(POWER PCB)

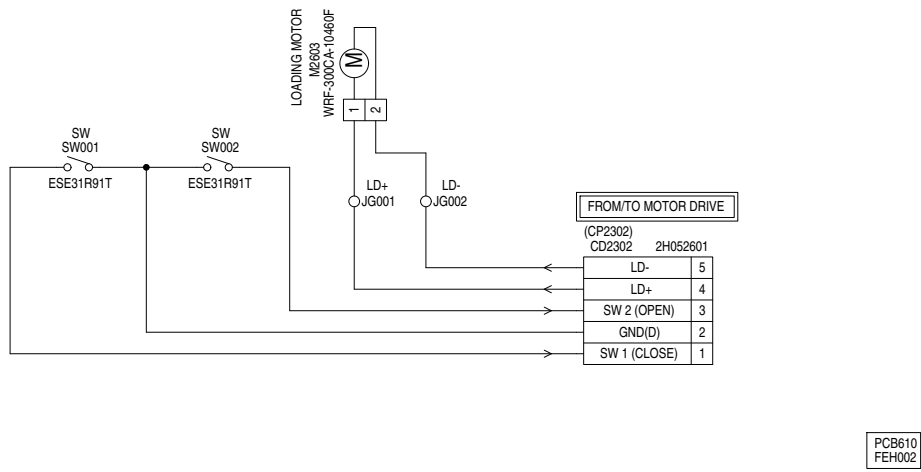


NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

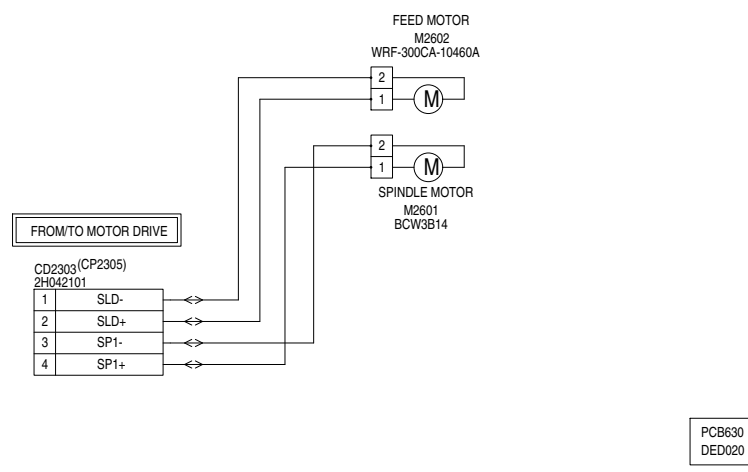
LOADING MOTOR SCHEMATIC DIAGRAM

(LOADING MOTOR PCB)



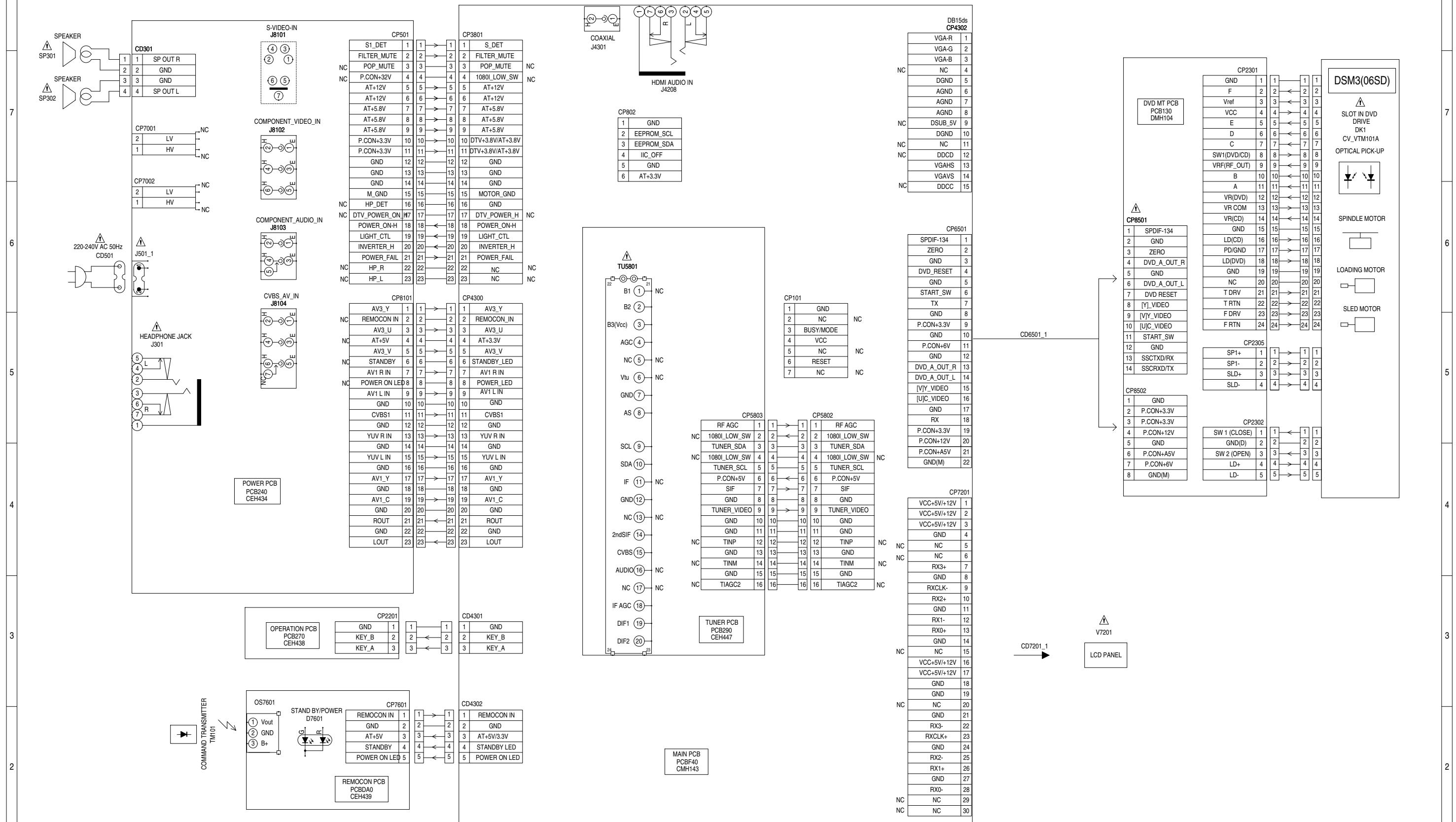
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

(PCB)




NOTE:THE DC VOLTAGE EACH PART WAS
MEASURED WITH THE DIGITAL TESTER
DURING PLAYBACK.

INTERCONNECTION DIAGRAM

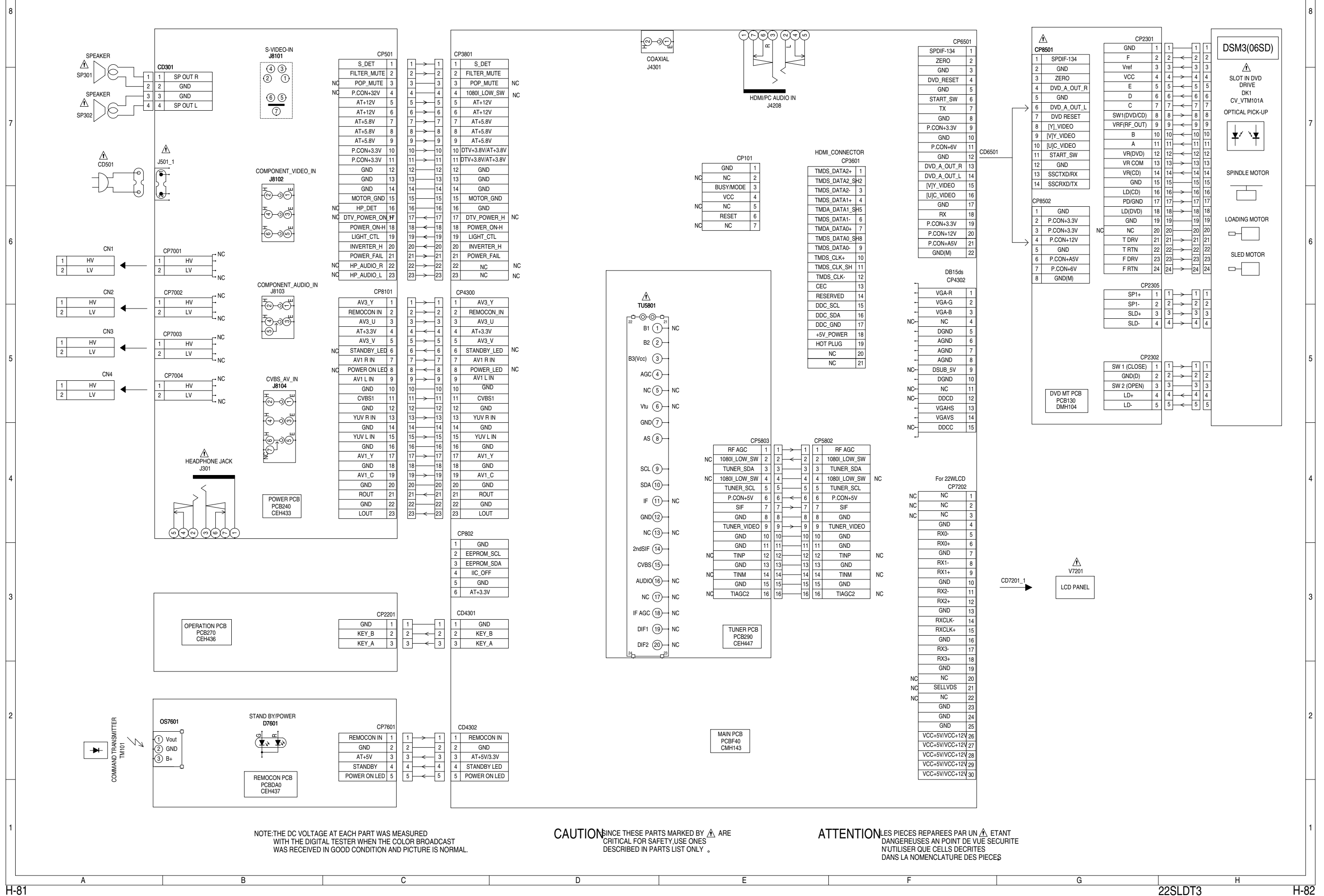


NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

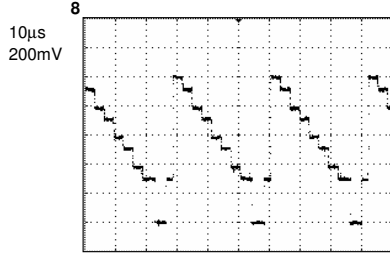
ATTENTION LES PIECES REPARÉES PAR UN  ÉTANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES

INTERCONNECTION DIAGRAM

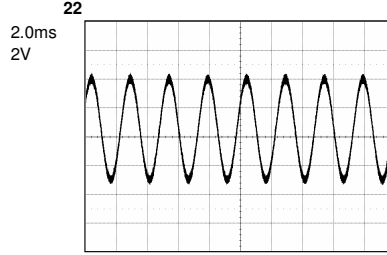


WAVEFORMS

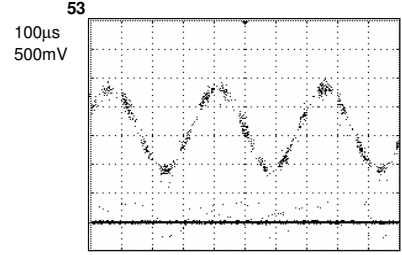
AV SWITCH



SOUND AMP

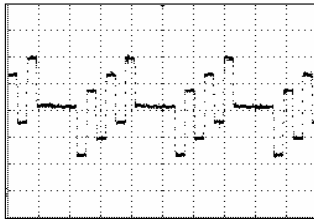


MPEG/MICON/DSP/RF_AMP



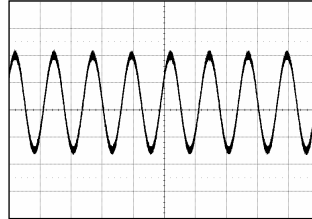
9

10μs
200mV



23

2.0ms
2V



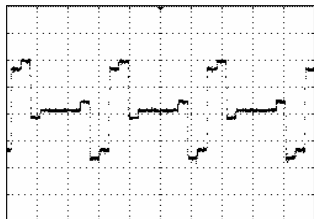
54

200ns
1V

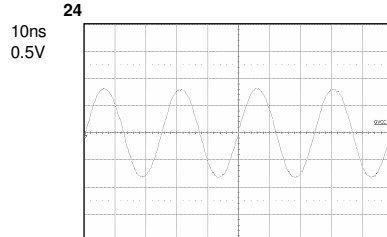


10

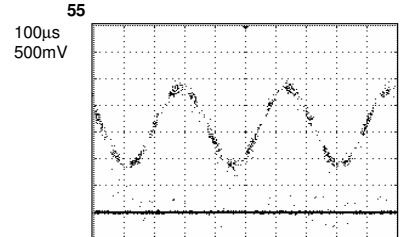
10μs
200mV



SCALER

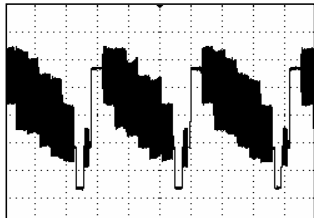


MEMORY



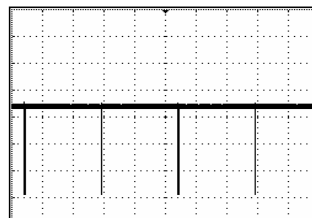
13

20μs
200mV

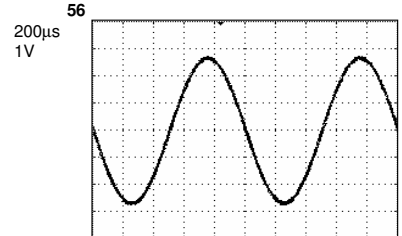


25

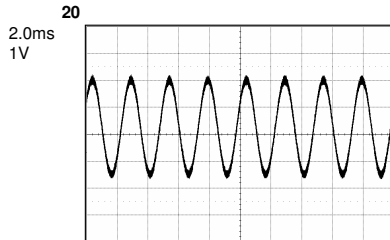
200ms
1V



AUDIO/VIDEO

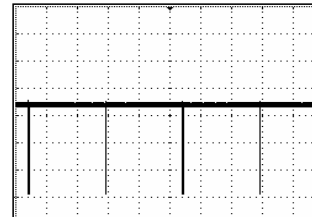


SOUND AMP MUTE



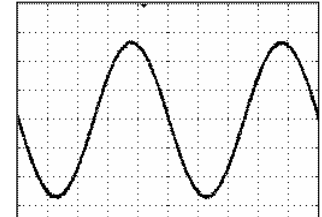
26

200ms
1V



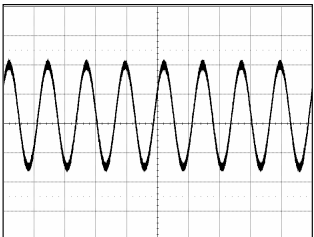
57

200μs
1V

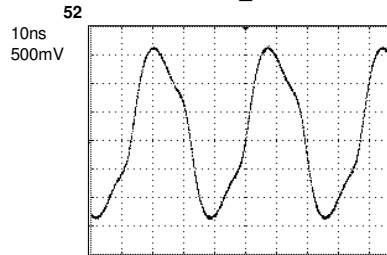


21

2.0ms
1V

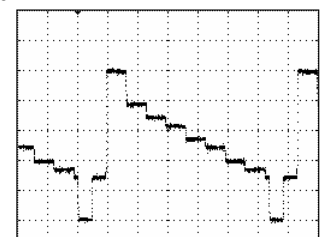


MPEG/MICON/DSP/RF_AMP



58

10μs
200mV



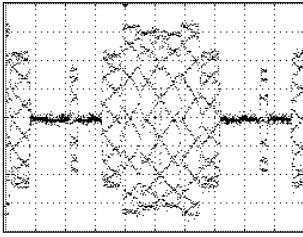
NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

WAVEFORMS

AUDIO/VIDEO

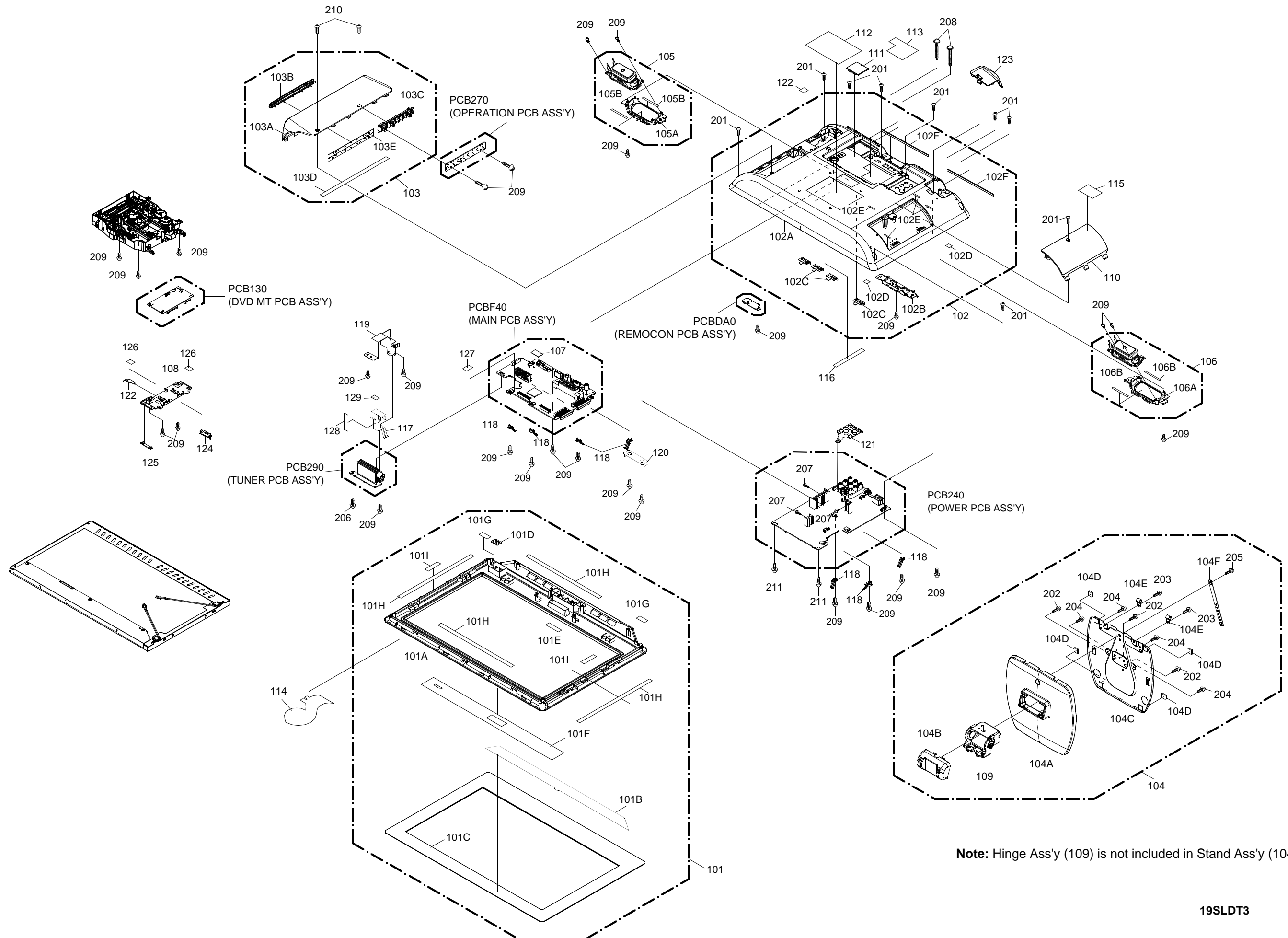
59

10 μ s
100mV



NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

MECHANICAL EXPLODED VIEW



Note: Hinge Ass'y (109) is not included in Stand Ass'y (104).