

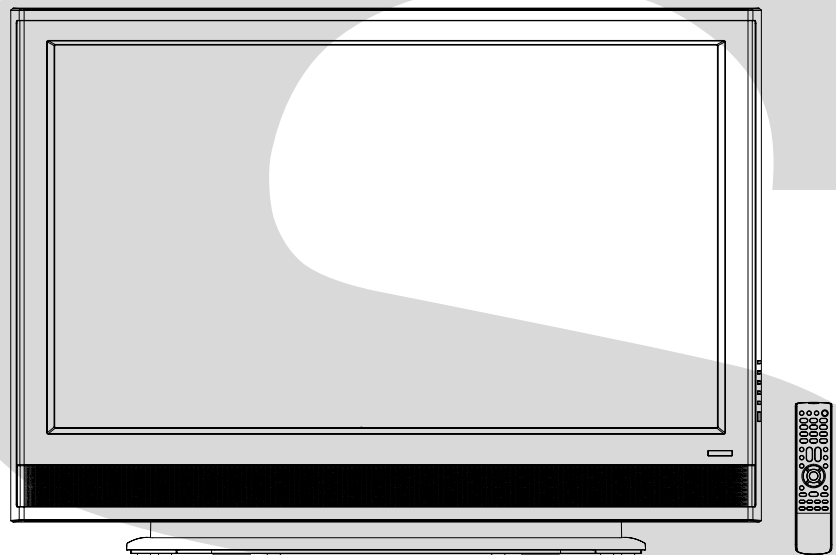
# TOSHIBA

FILE NO. 050-200626GR  
(MFR'S VERSION A)

## SERVICE MANUAL

### 42" PLASMA COLOR TELEVISION

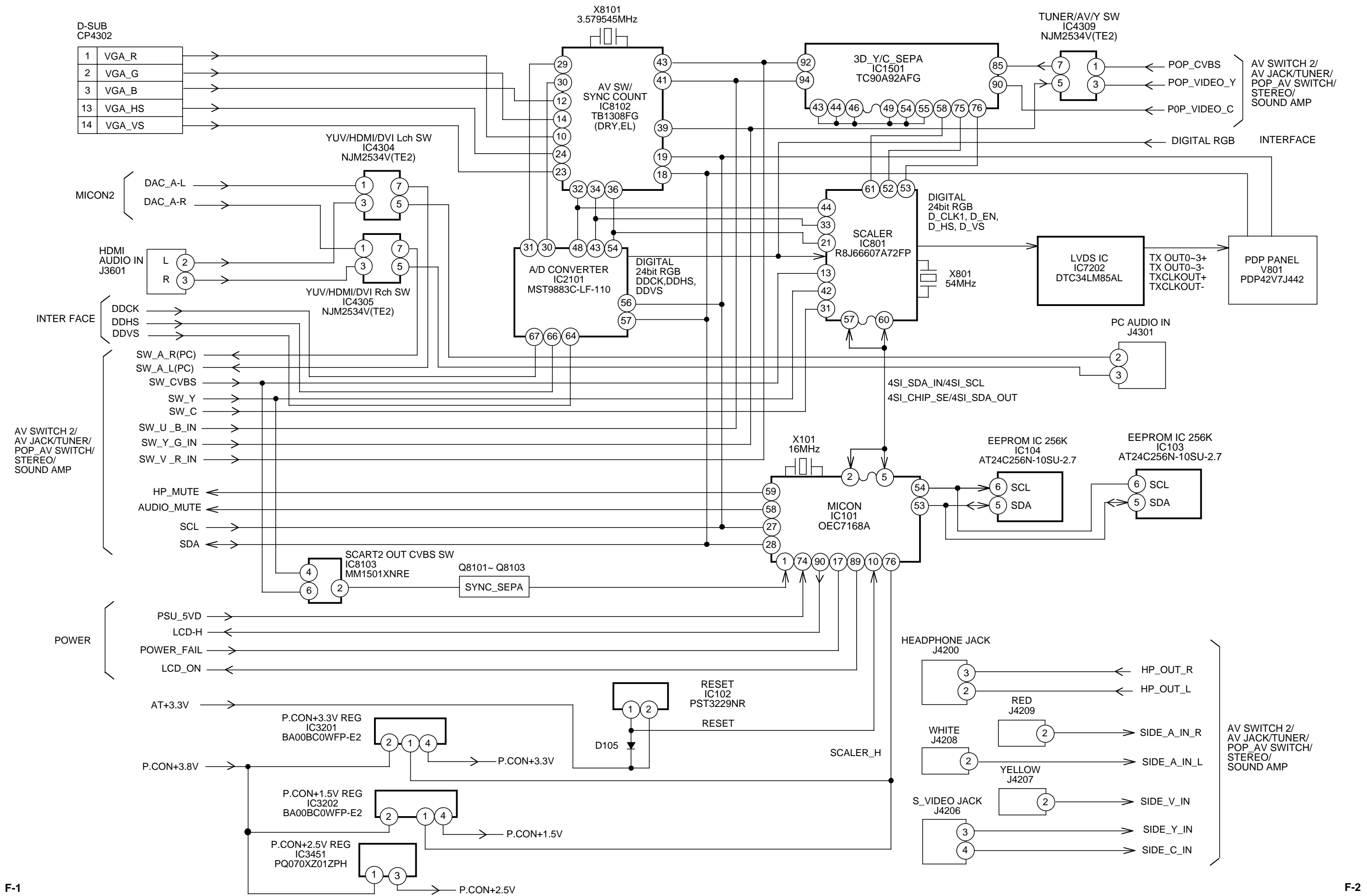
# ***42WP66R***



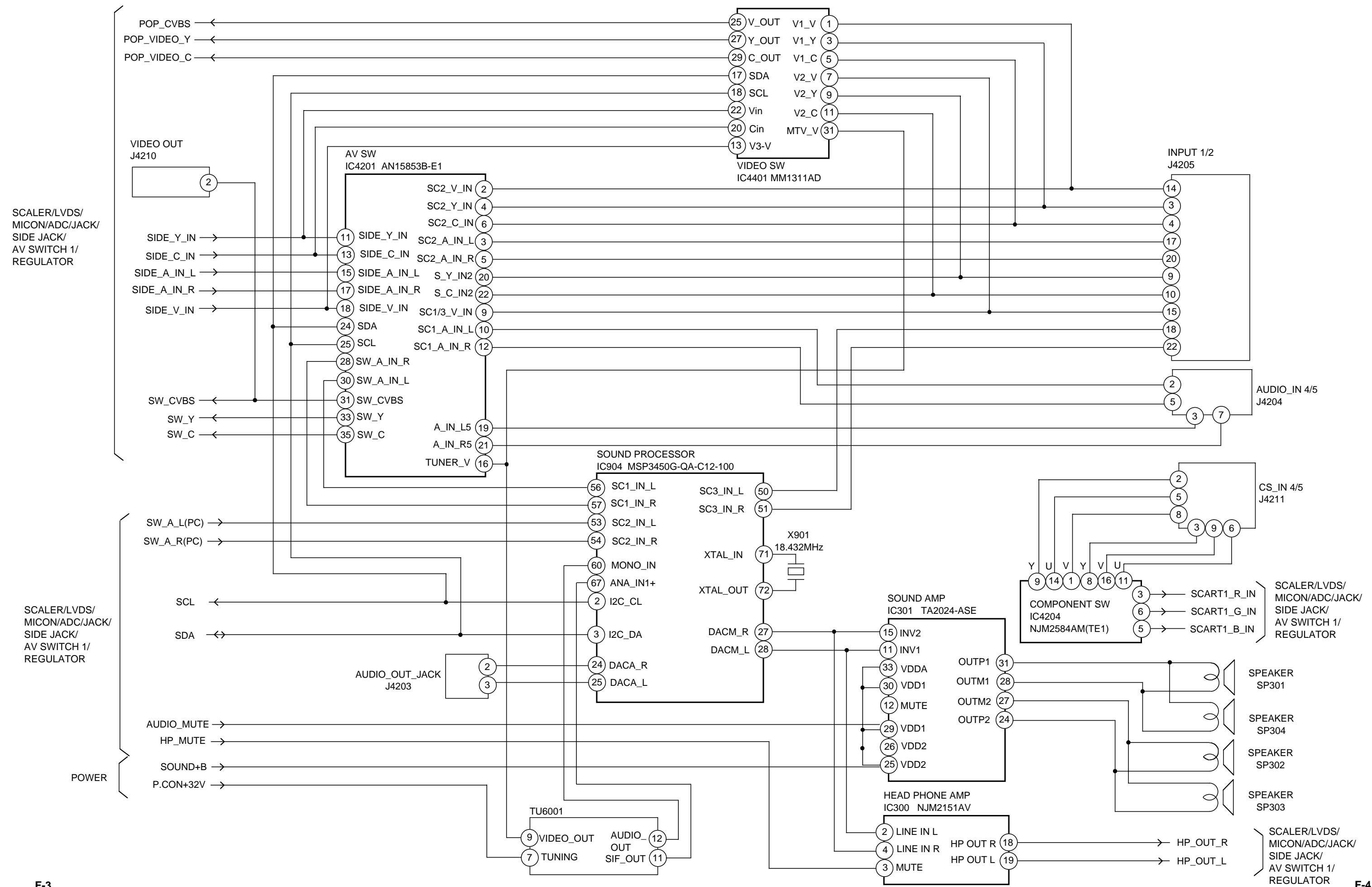
The above model is classified as a green product (\*1), as indicated by the underlined serial number. This Service Manual describes replacement parts for the green product. When repairing this green product, use the part(s) described in this manual and lead-free solder (\*2).

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

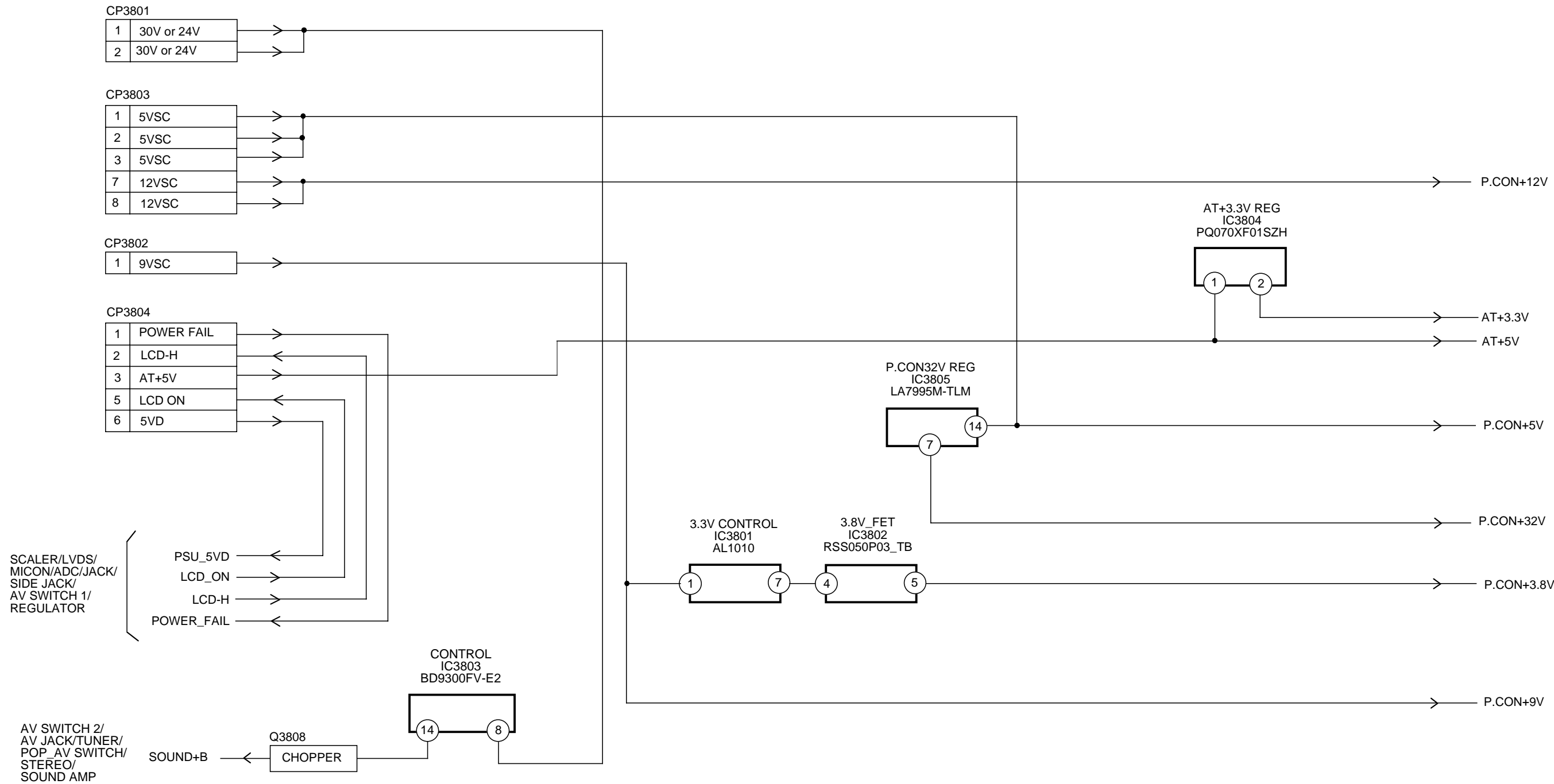
SCALER/LVDS/MICON/ADC/JACK/SIDE JACK/AV SWITCH 1/REGULATOR BLOCK DIAGRAM



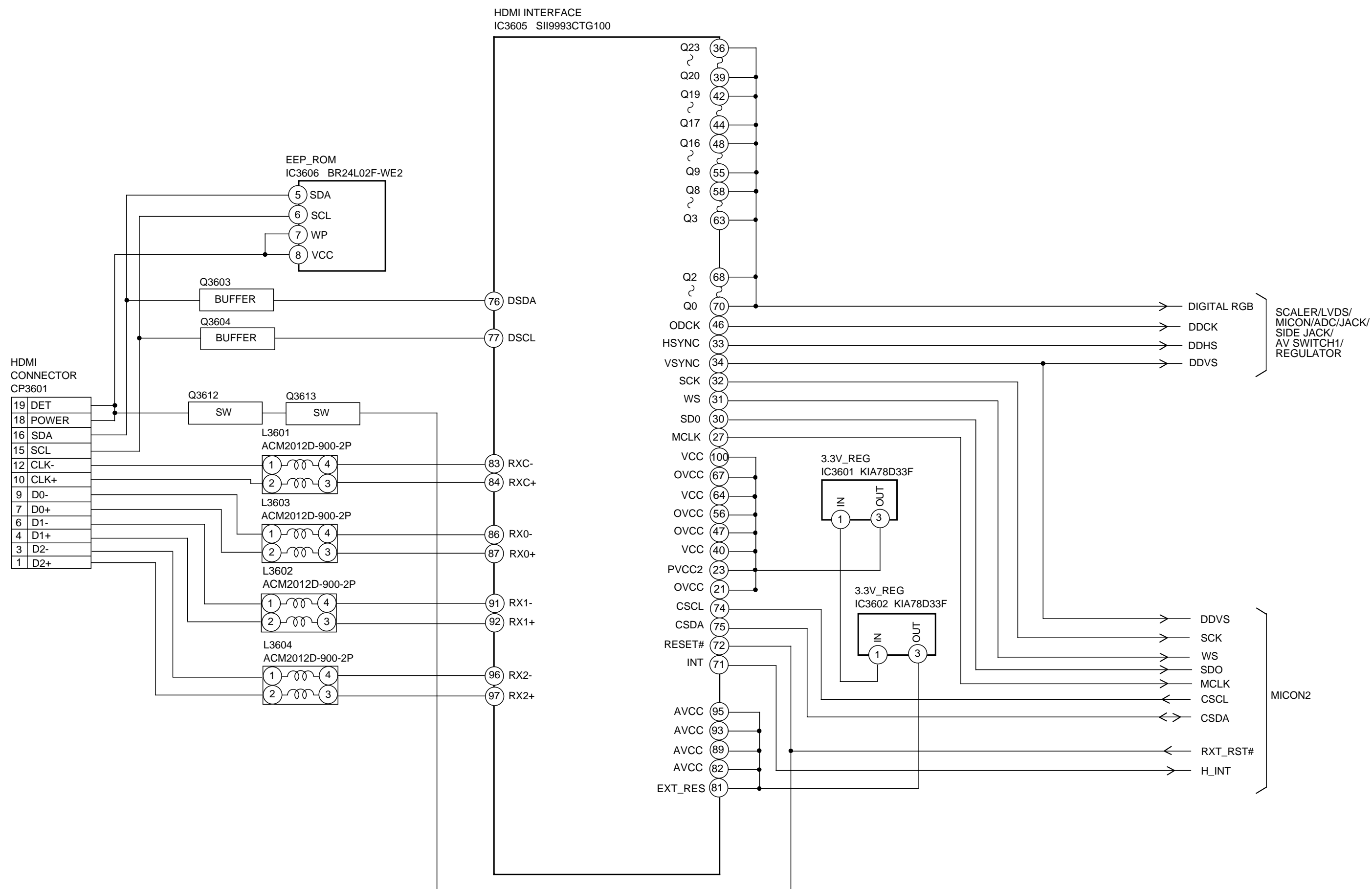
AV SWITCH 2/AV JACK/TUNER/POP\_AV SWITCH/STEREO/SOUND AMP BLOCK DIAGRAM



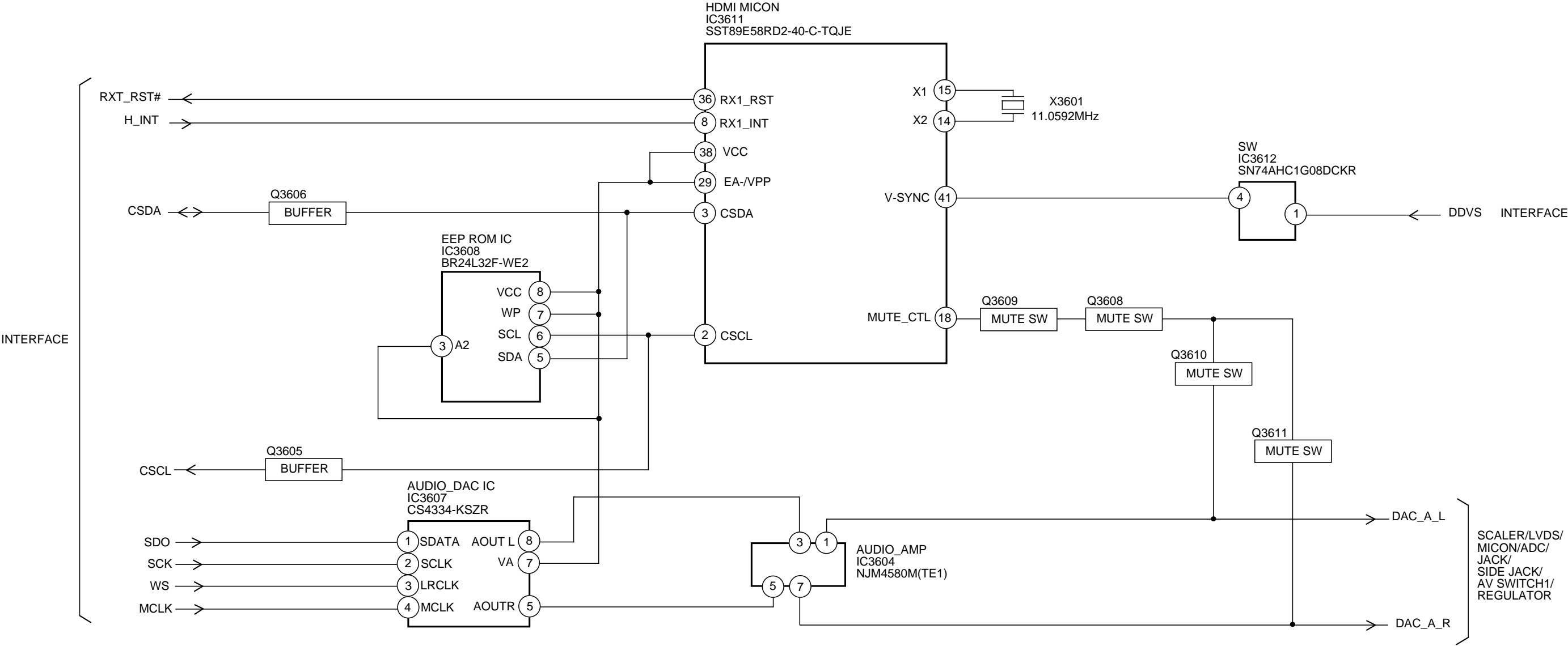
POWER BLOCK DIAGRAM



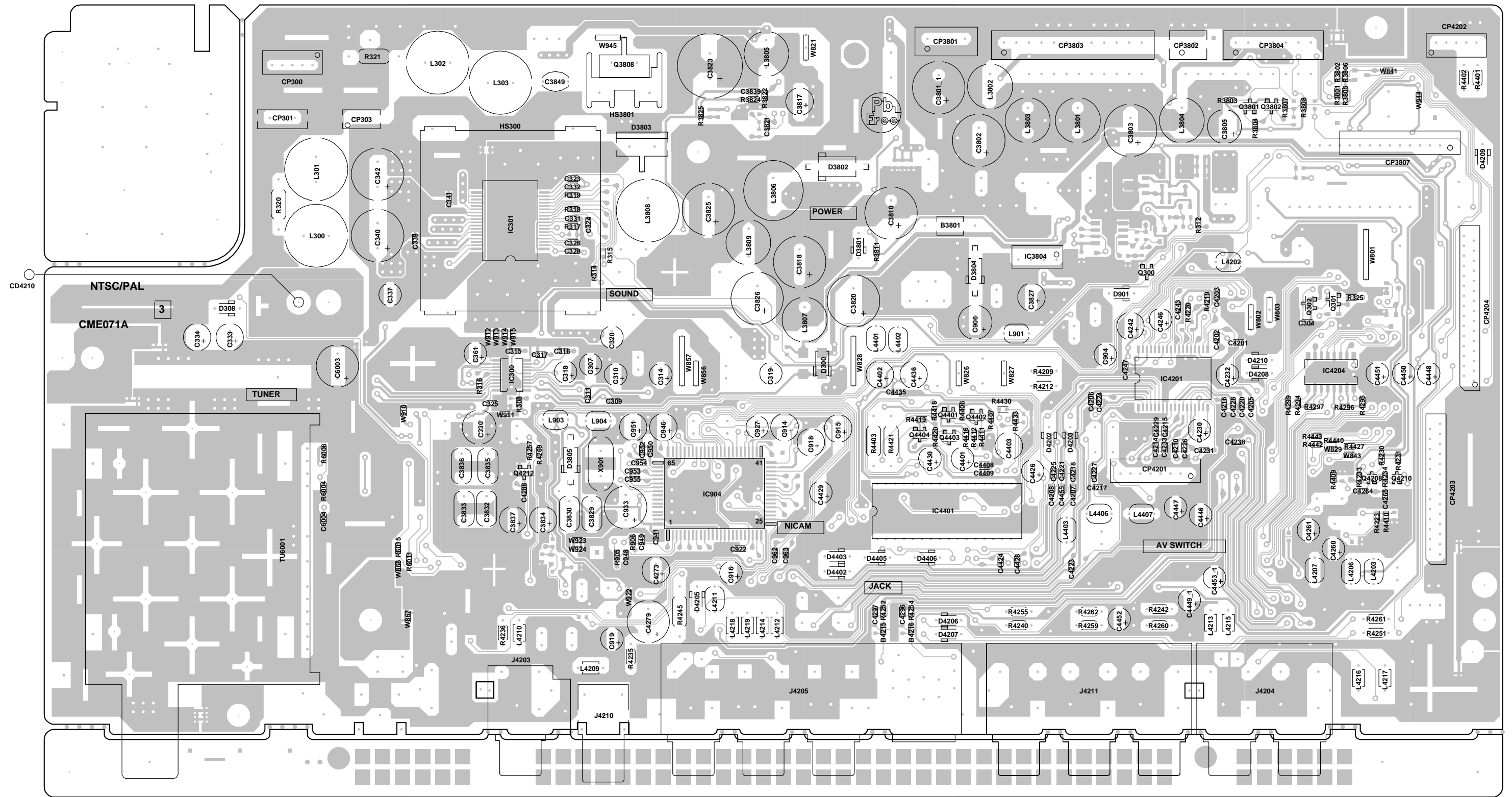
INTERFACE BLOCK DIAGRAM



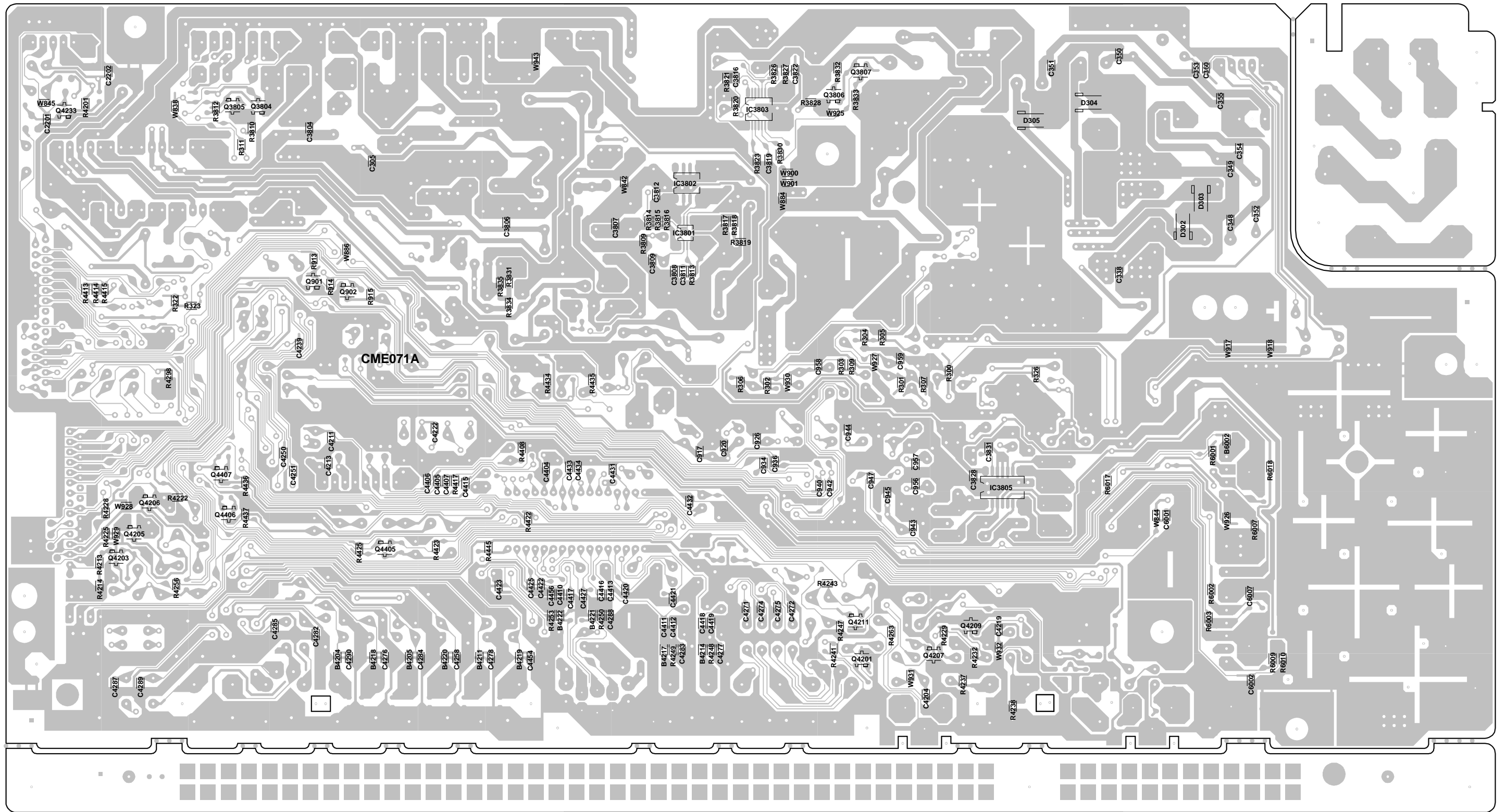
MICON2 BLOCK DIAGRAM



# PRINTED CIRCUIT BOARDS AV (TOP SIDE)

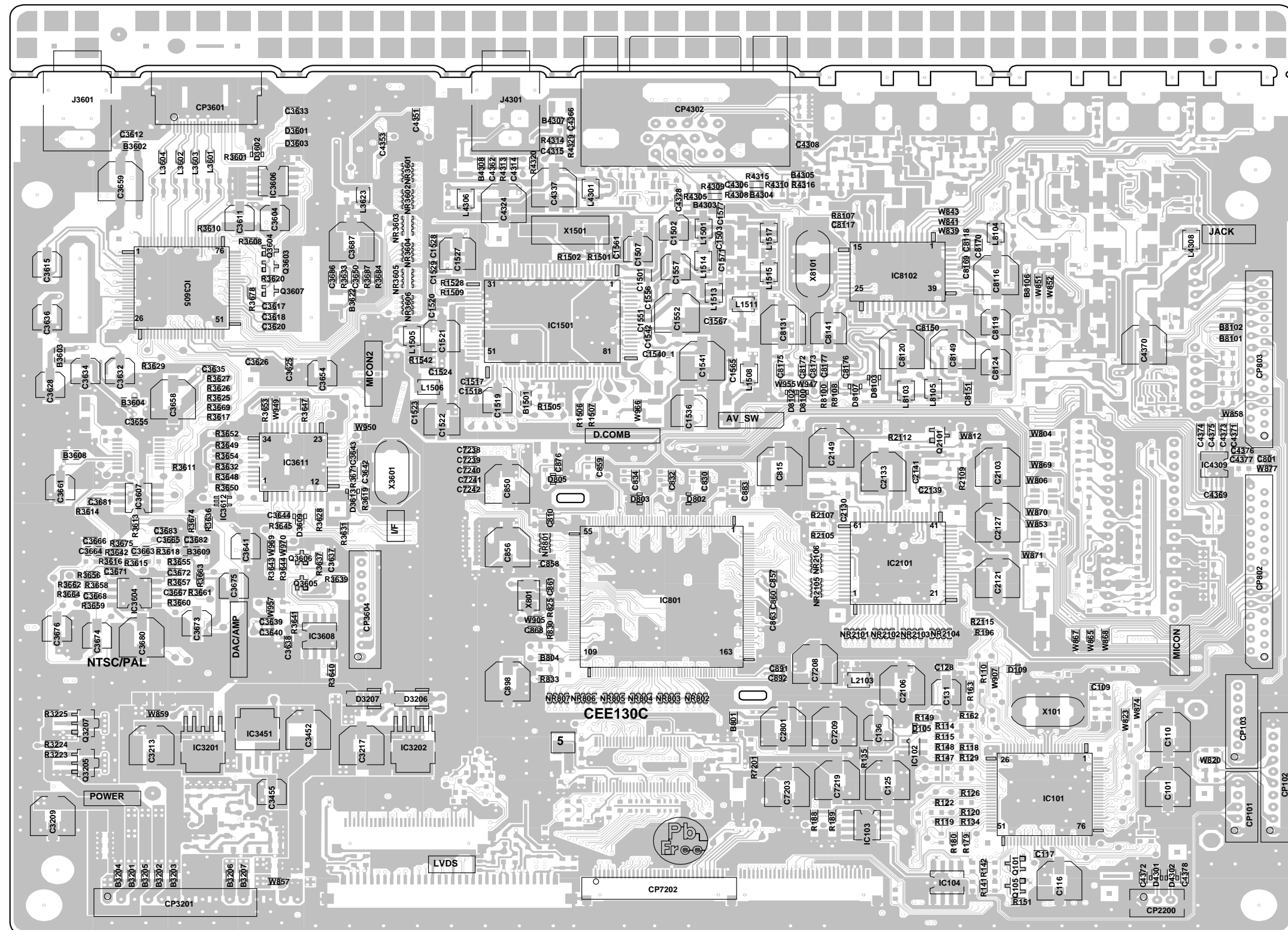


# PRINTED CIRCUIT BOARDS AV (BOTTOM SIDE)





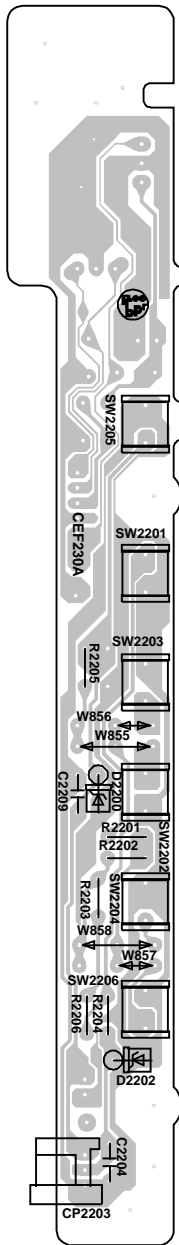
# PRINTED CIRCUIT BOARDS SCALER (TOP SIDE)



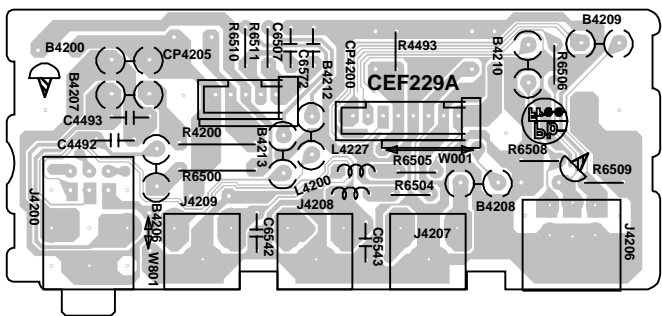


PRINTED CIRCUIT BOARDS

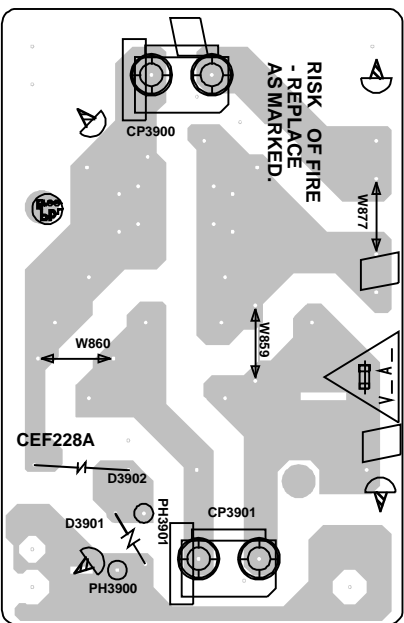
OPERATION  
SOLDER SIDE



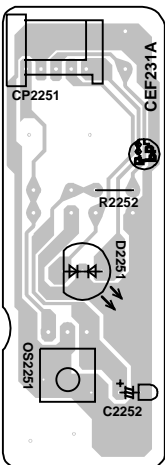
SIDE JACK  
SOLDER SIDE



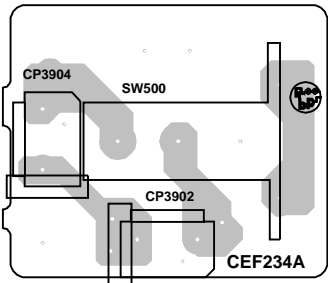
FILTER  
SOLDER SIDE



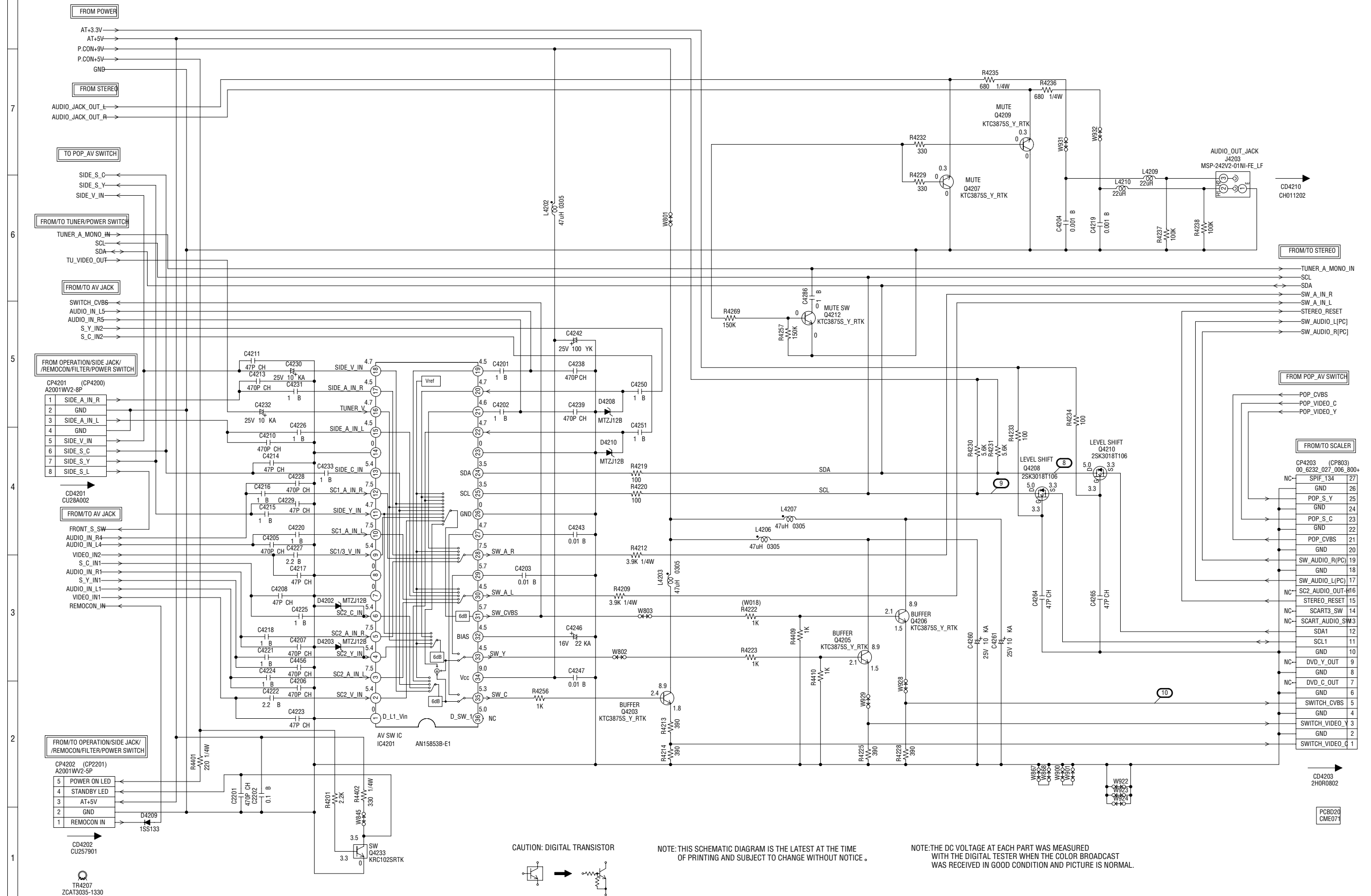
REMOCON  
SOLDER SIDE



POWER SW  
SOLDER SIDE

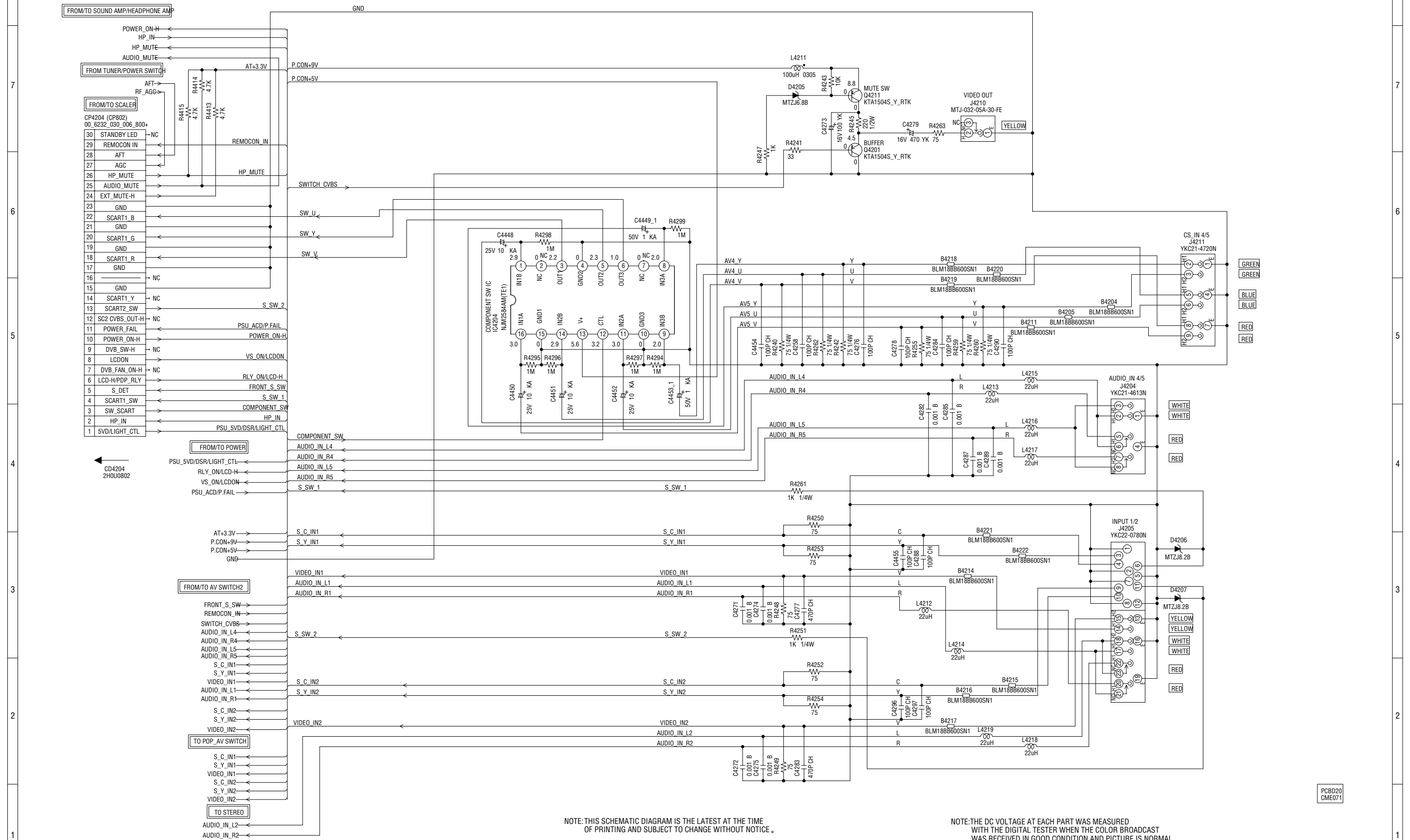


# AV SWITCH2 SCHEMATIC DIAGRAM (AV PCB)

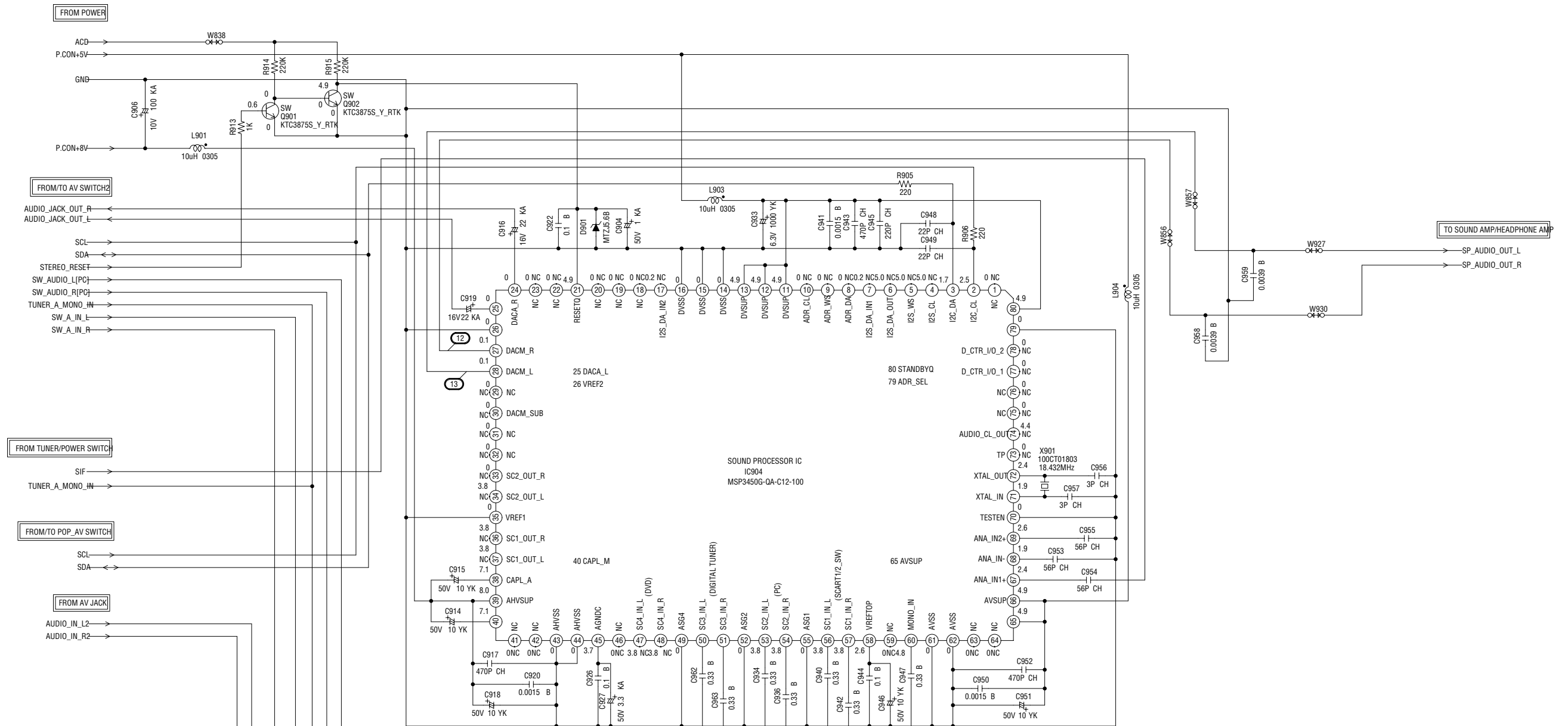


## AV JACK SCHEMATIC DIAGRAM

(AV PCB)



# STEREO SCHEMATIC DIAGRAM (AV PCB)

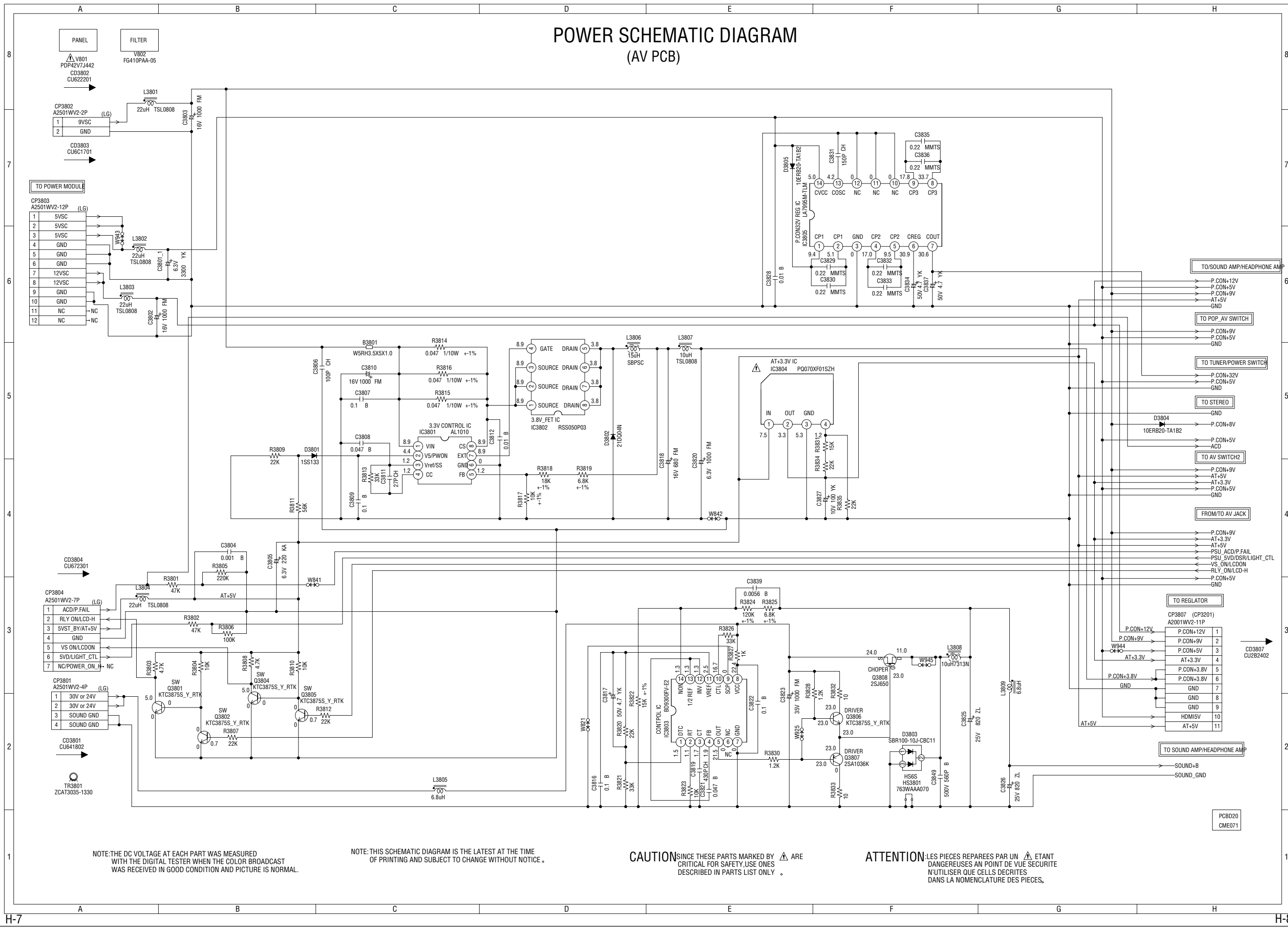


NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

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.

PCBD20  
CME071

POWER SCHEMATIC DIAGRAM  
(AV PCB)



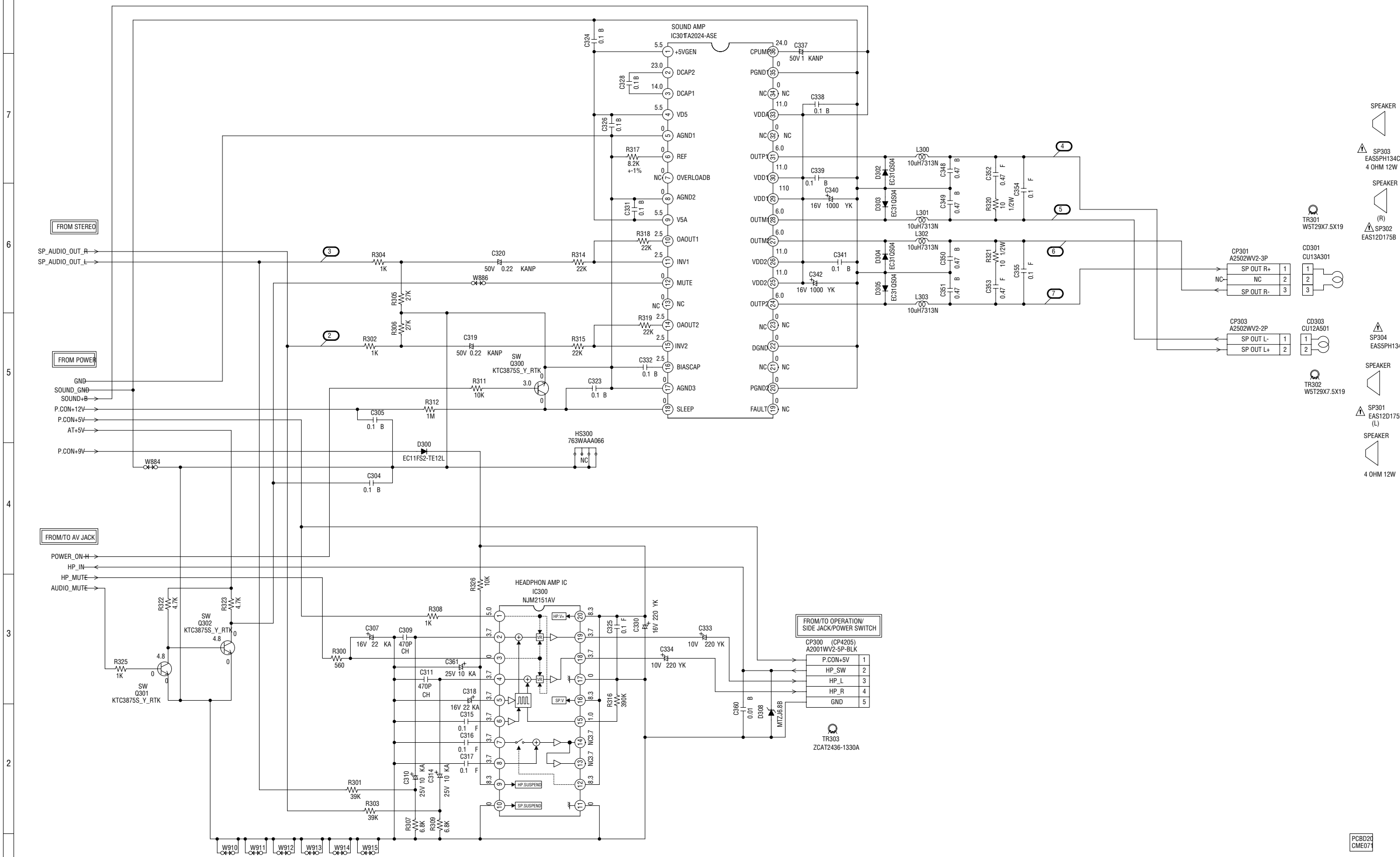
NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED  
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST  
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

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

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.

# SOUND AMP/HEADPHONE AMP SCHEMATIC DIAGRAM (AV PCB)



**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 AU POINT DE VUE SÉCURITÉ, N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES.

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

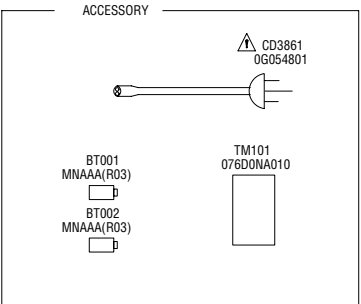
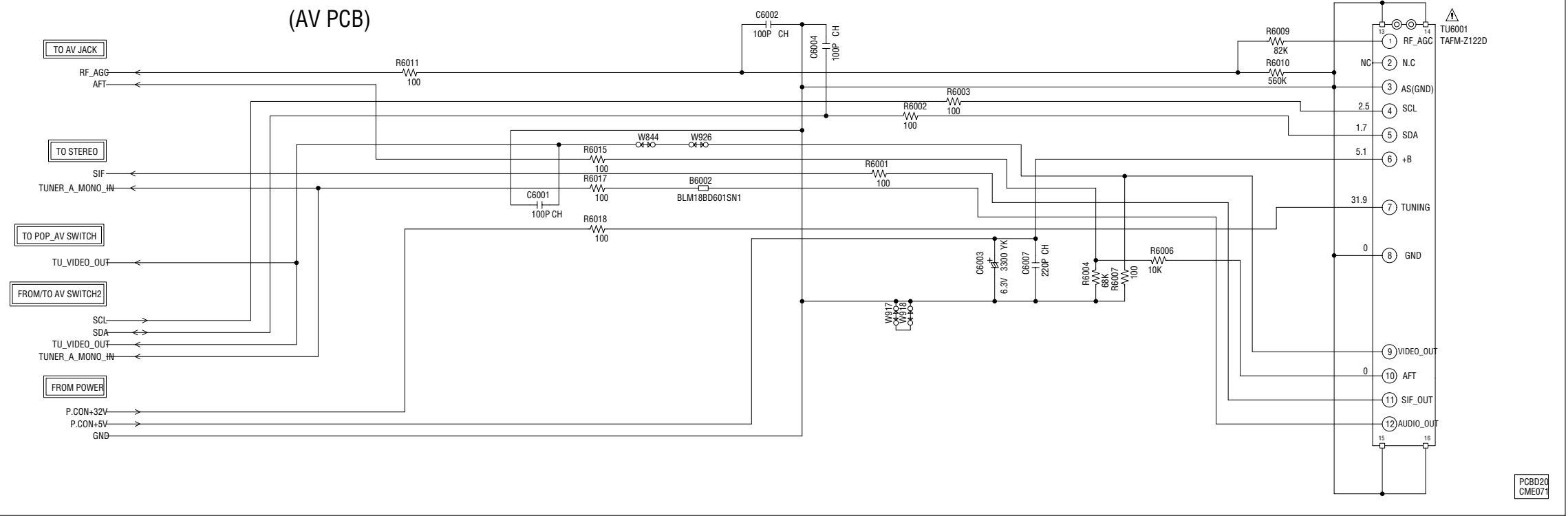
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

PCBD20  
CME07




TUNER/POWER SWITCH SCHEMATIC DIAGRAM  
(AV PCB)


(AV 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.

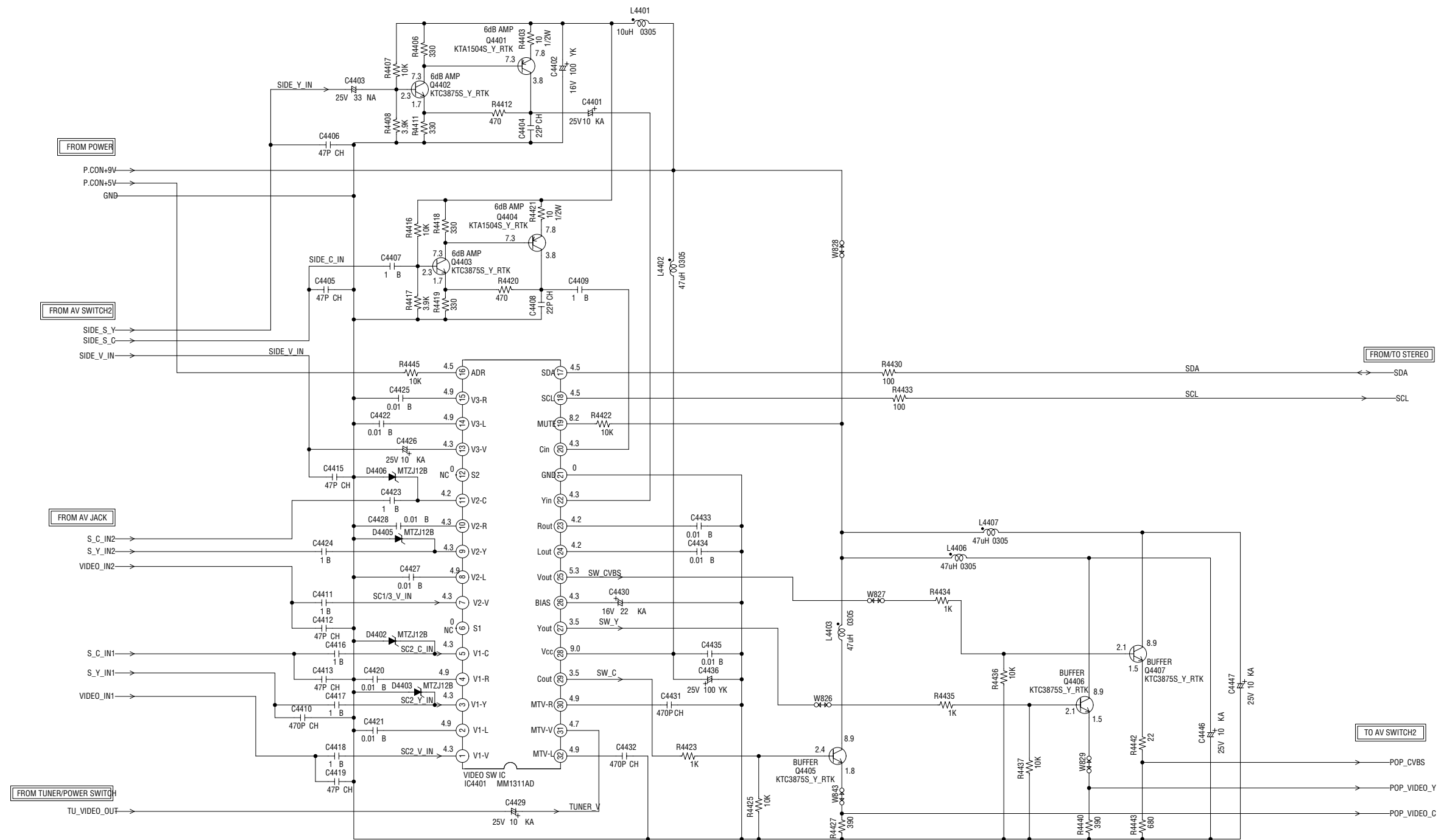
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME  
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

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,

## POP\_AV SWITCH SCHEMATIC DIAGRAM

(AV PCB)

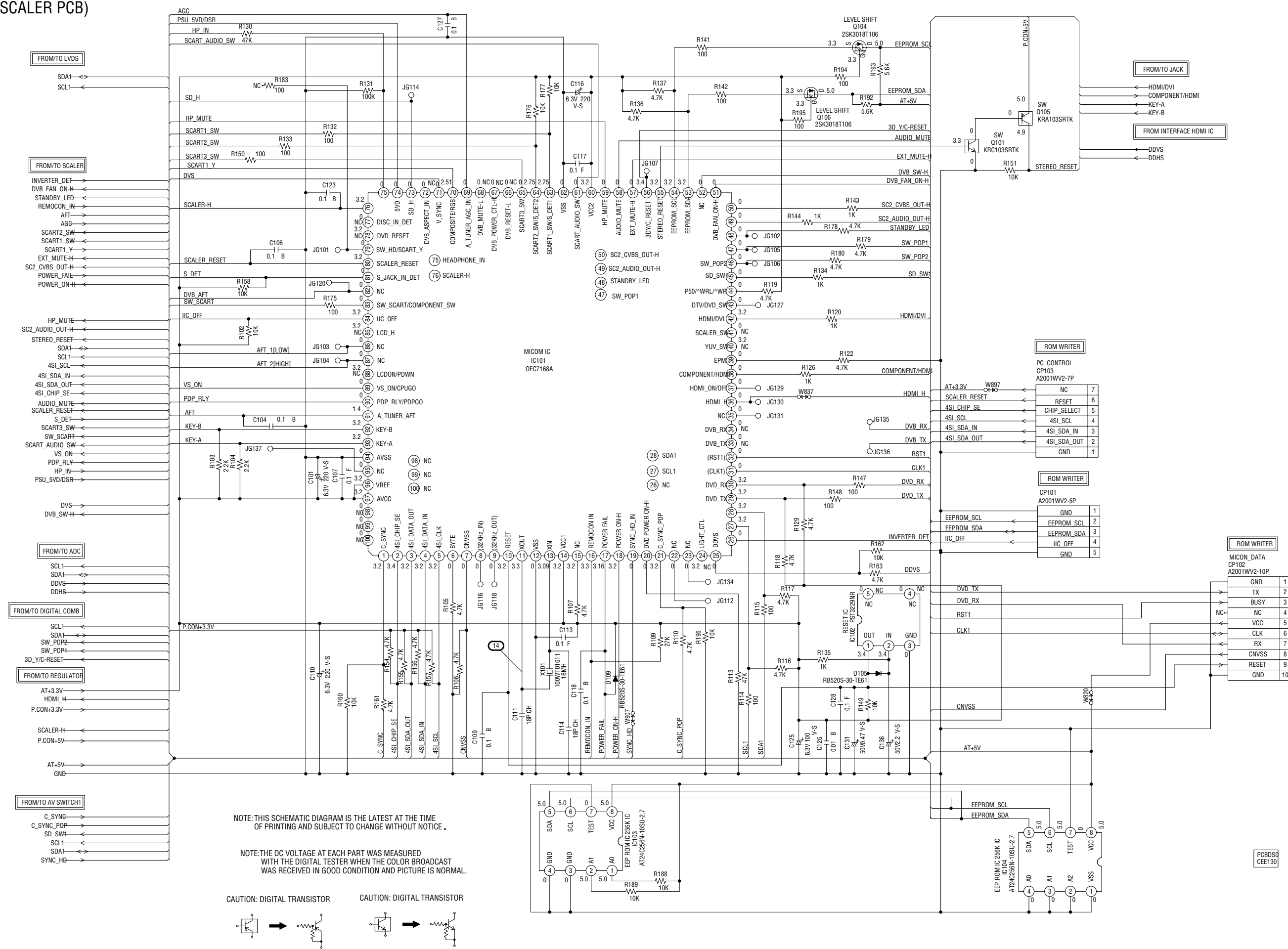


NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

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.

PCBD20  
CME071

# MICON SCHEMATIC DIAGRAM (SCALER 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: DIGITAL TRANSISTOR

ROM WRITER

PC CONTROL	CP103	A2001WV2-7P
NC	7	
RESET	6	
4SI_CHIP_SE	5	
4SI_SCL	4	
4SI_SDA_IN	3	
4SI_SDA_OUT	2	
GND	1	

ROM WRITER

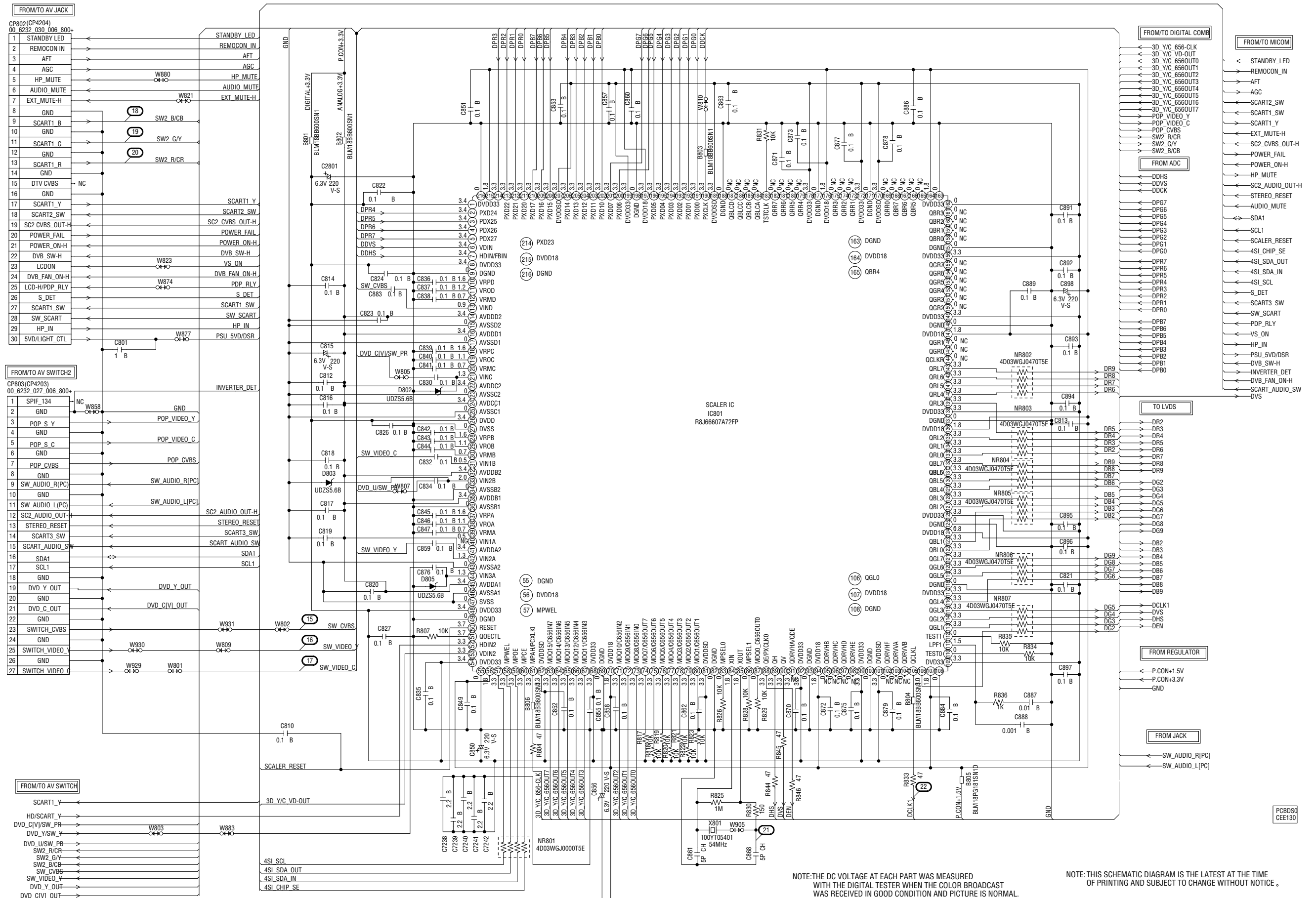
CP101	A2001WV2-5P
GND	1
EEPROM_SCL	2
EEPROM_SDA	3
IIC_OFF	4
GND	5

ROM WRITER

MICON_DATA	CP102	A2001WV2-10P
GND	1	
TX	2	
BUSY	3	
NC	4	
VCC	5	
CLK	6	
RX	7	
CVSS	8	
RESET	9	
GND	10	

PCBDSQ  
CEE130

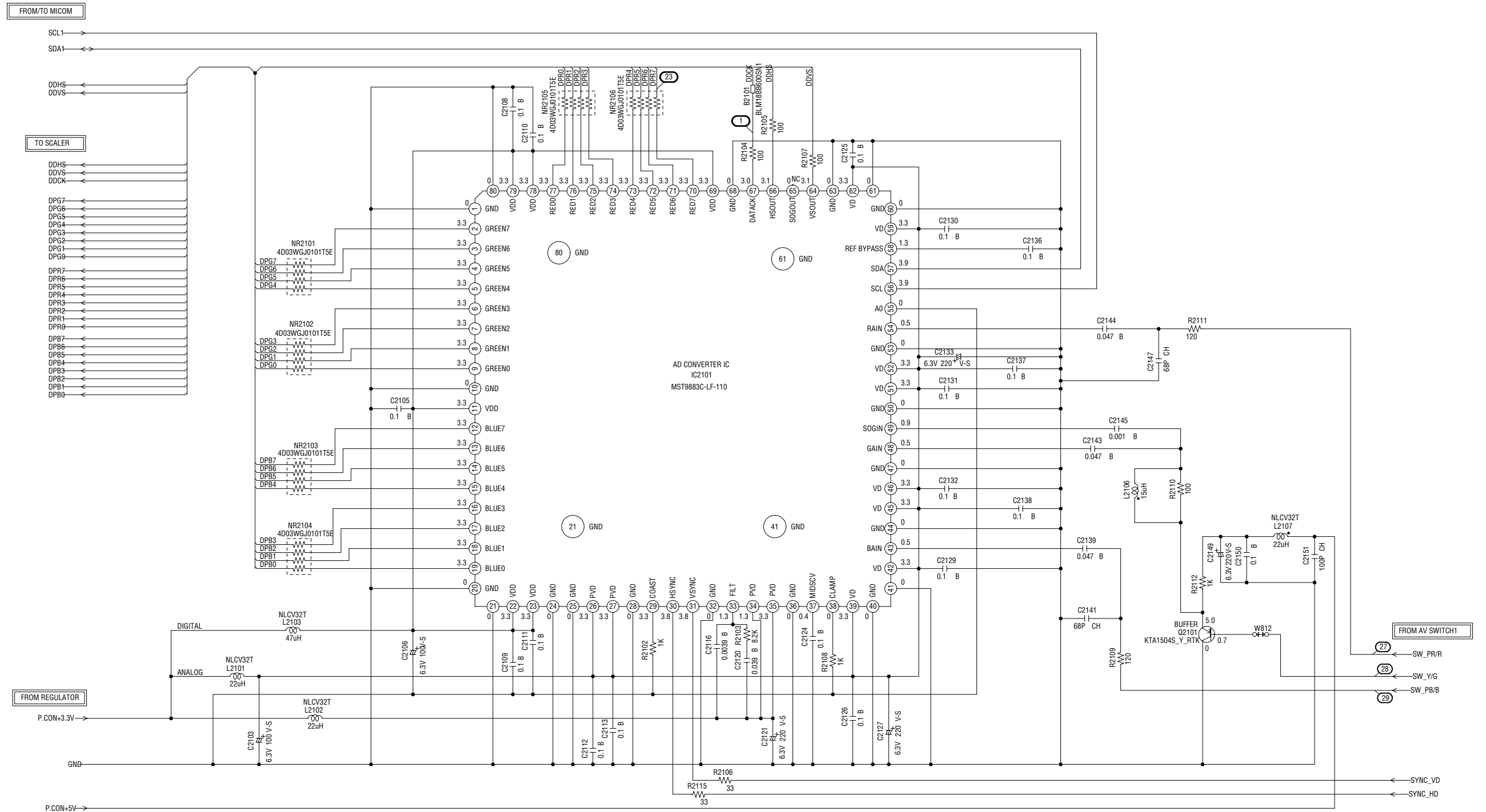
## SCALER SCHEMATIC DIAGRAM (SCALER PCB)



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.

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

## ADC SCHEMATIC DIAGRAM (SCALER PCB)

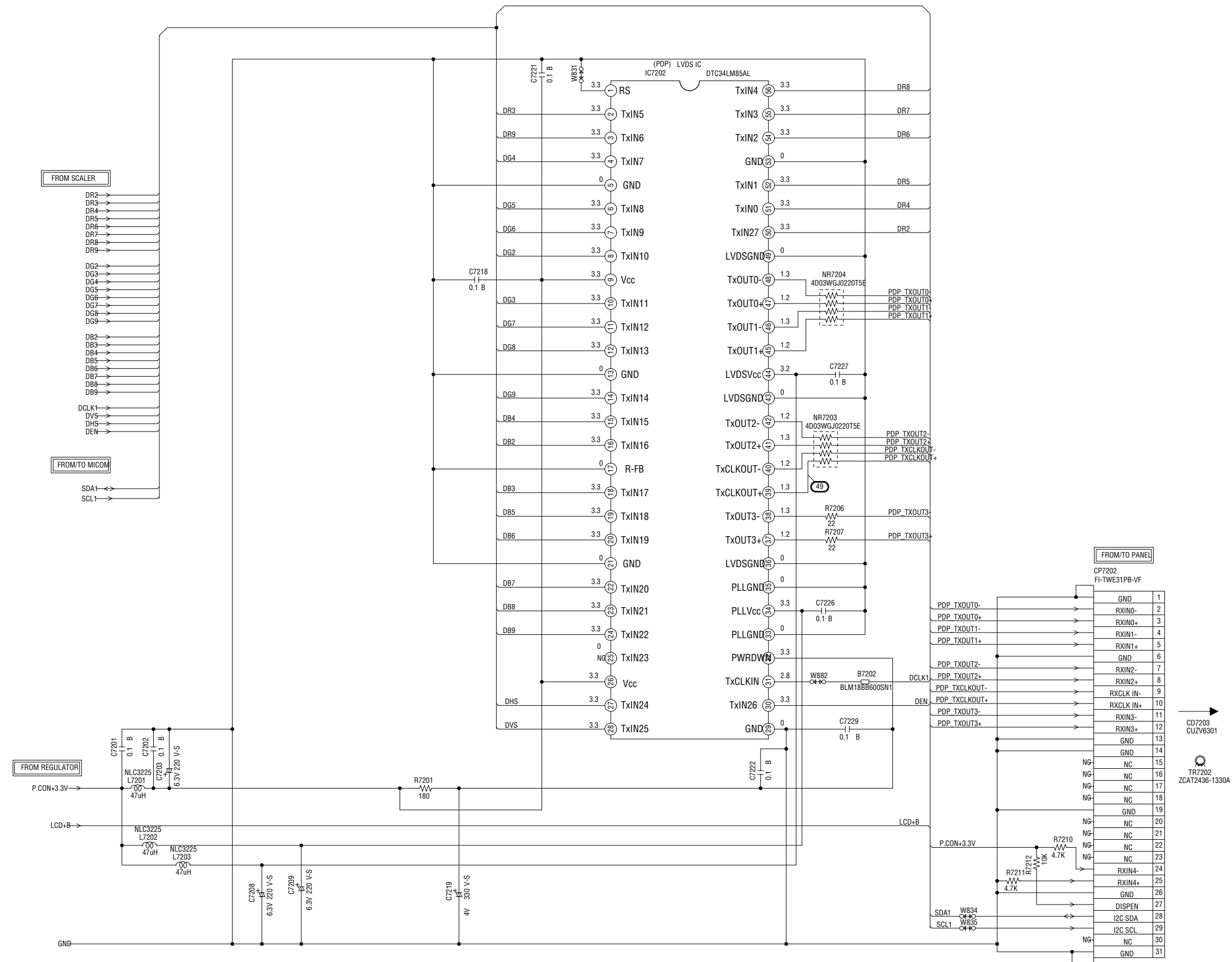


NOTE:THE DC VOLTAGE EACH PART WAS  
MEASURED WITH THE DIGITAL TESTER  
DURING PLAYBACK.

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

PCBDS0  
CEE130

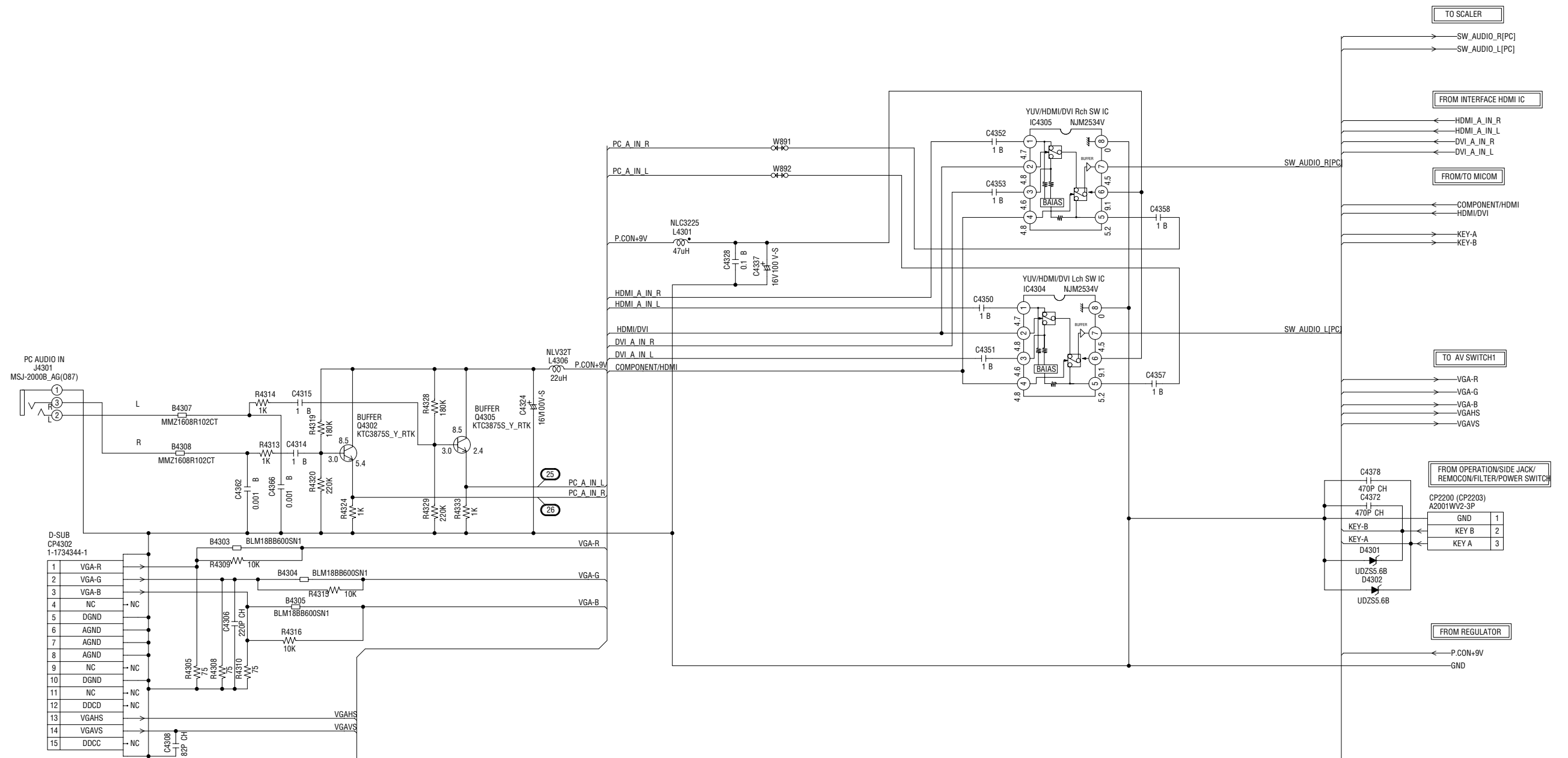
## LVDS SCHEMATIC DIAGRAM (SCALER PCB)



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.

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

## JACK SCHEMATIC DIAGRAM (SCALER 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.

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

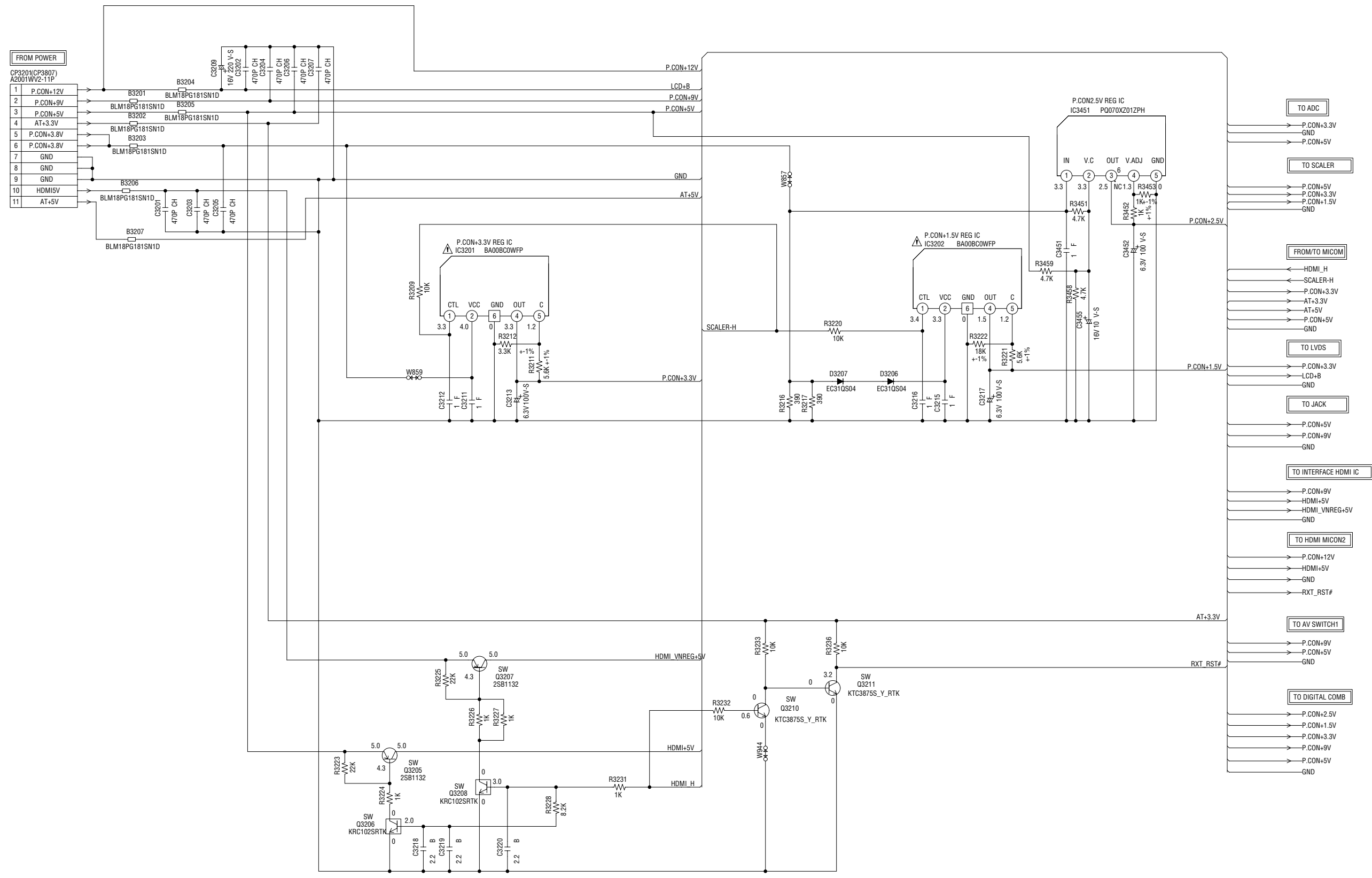
(SCALER PCB)





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



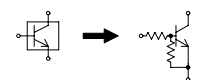
## REGULATOR SCHEMATIC DIAGRAM (SCALER PCB)



**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 AU POINT DE VUE SÉCURITÉ, N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES.

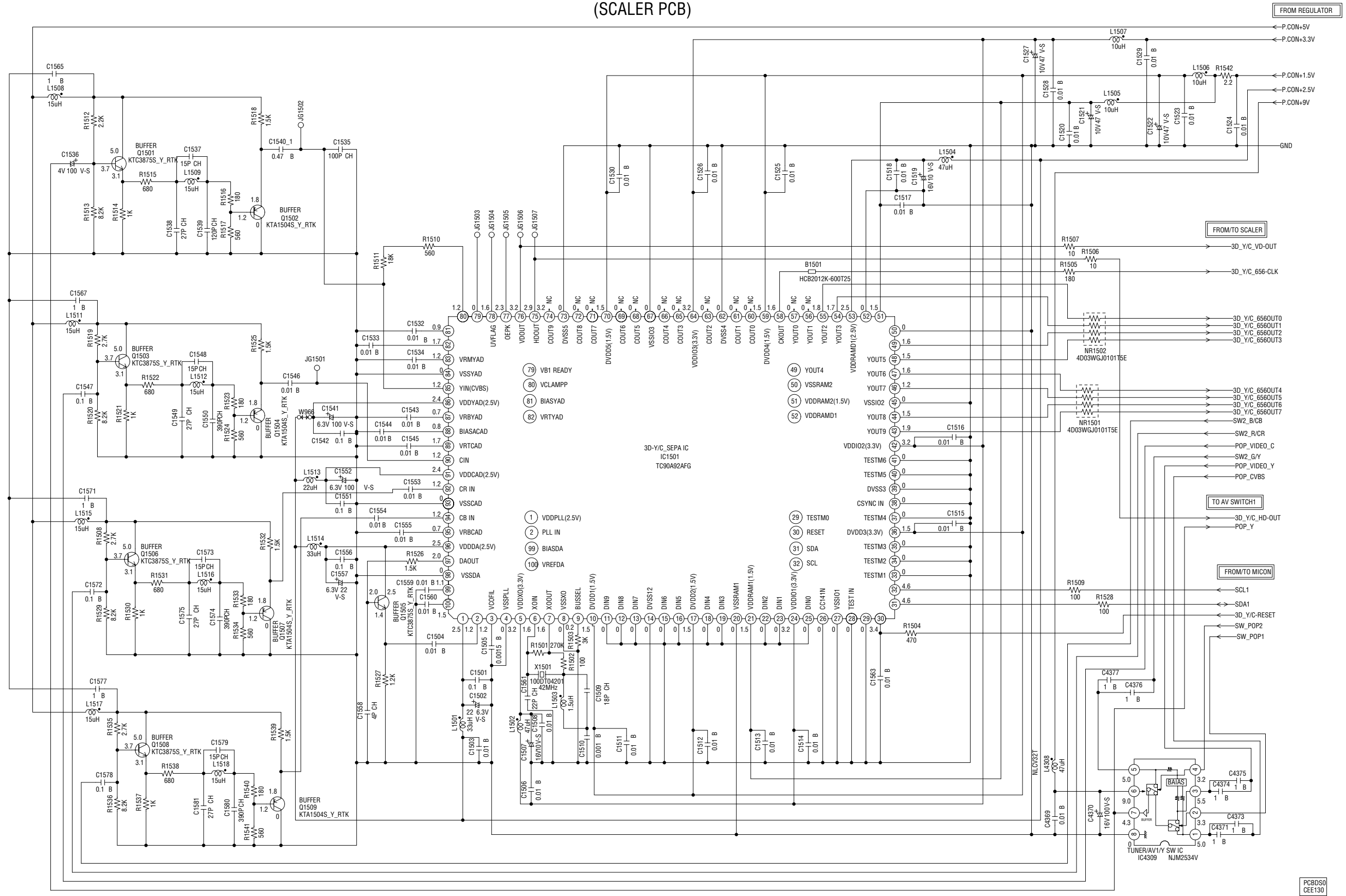
CAUTION: DIGITAL TRANSISTOR



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.

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

# DIGITAL COMB SCHEMATIC DIAGRAM (SCALER PCB)

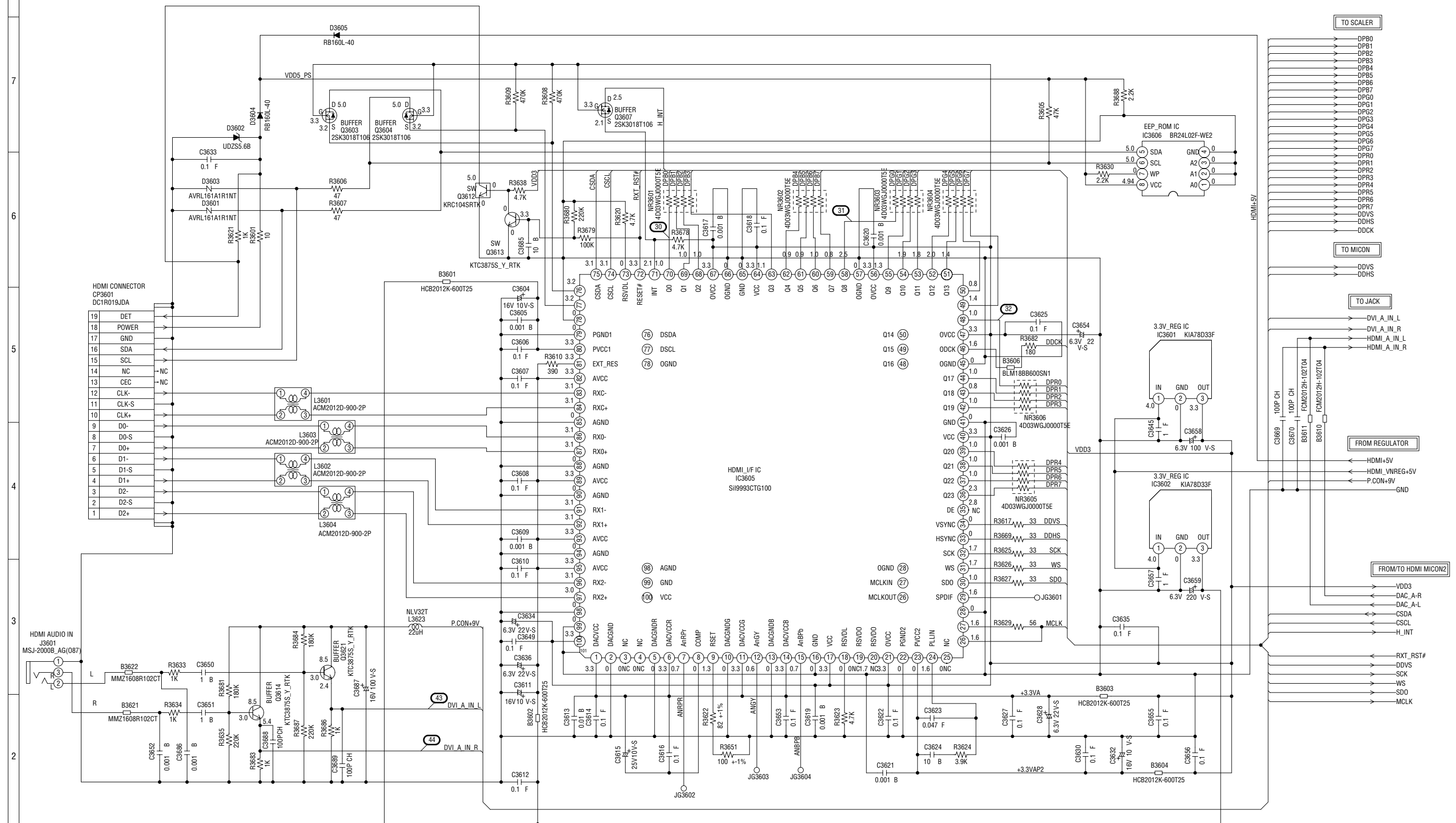


NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED  
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST  
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

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

PCBDS0  
CEE130

## INTERFACE\_HDMI IC SCHEMATIC DIAGRAM (SCALER PCB)



CAUTION: DIGITAL TRANSISTOR

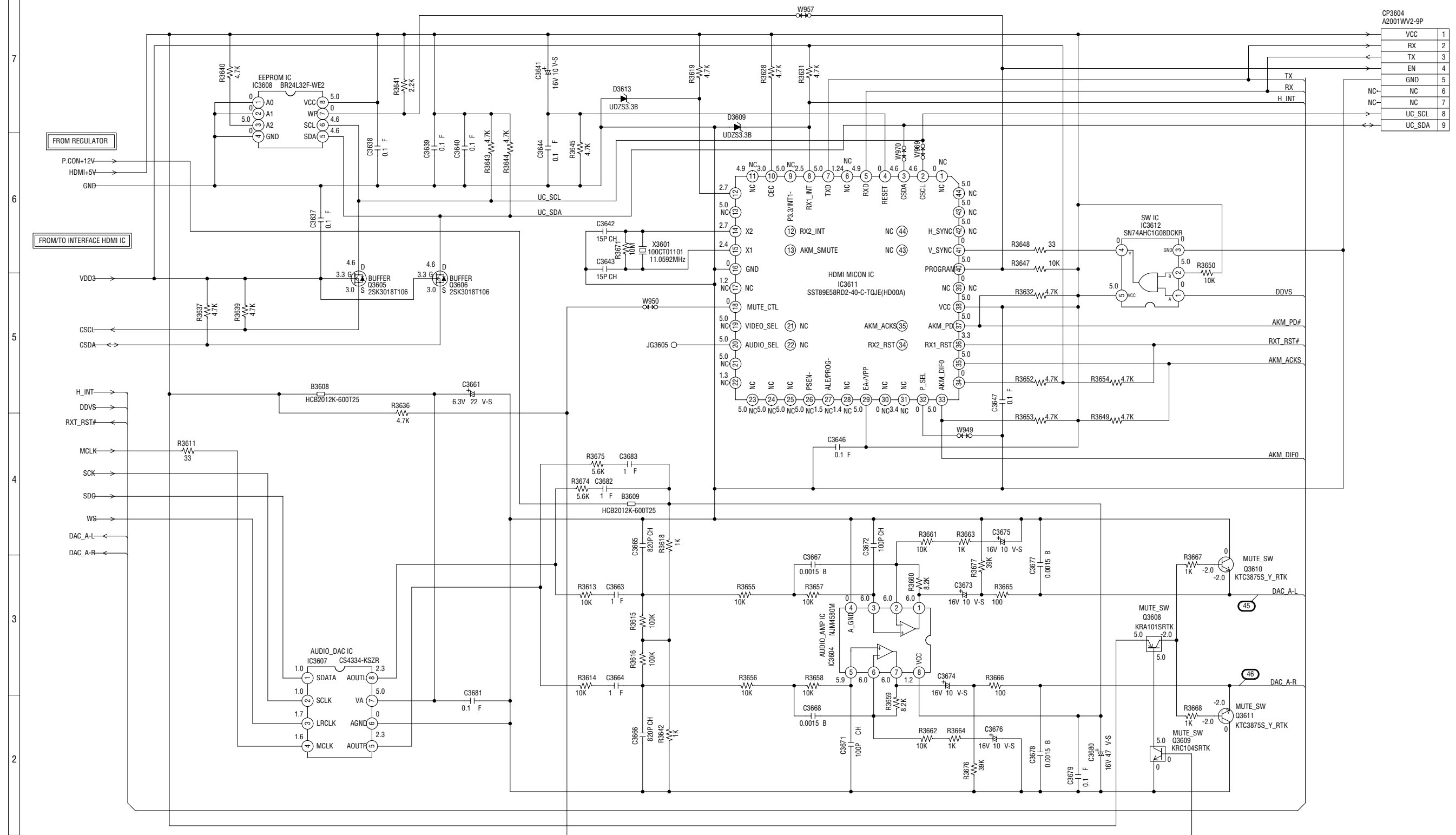


NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

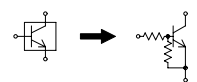
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

PCBDS0  
CEE130

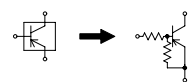
## HDMI MICON2 SCHEMATIC DIAGRAM (SCALER PCB)



CAUTION: DIGITAL TRANSISTOR



CAUTION: DIGITAL TRANSISTOR

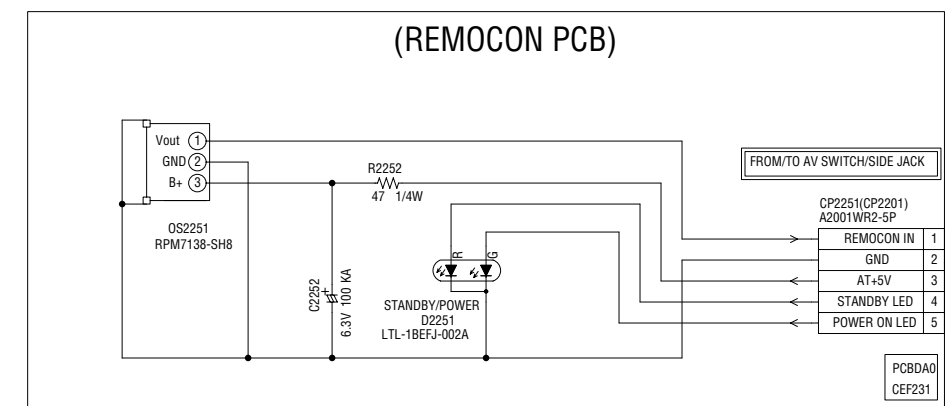
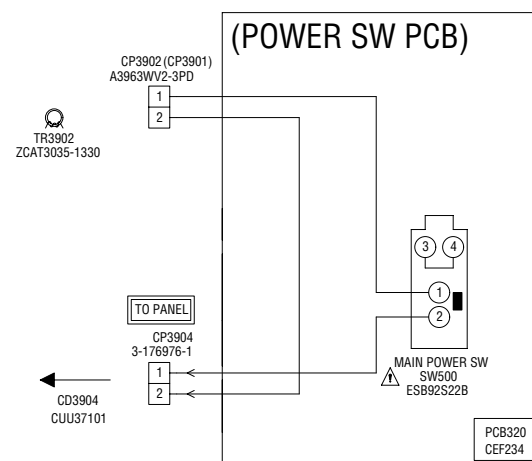
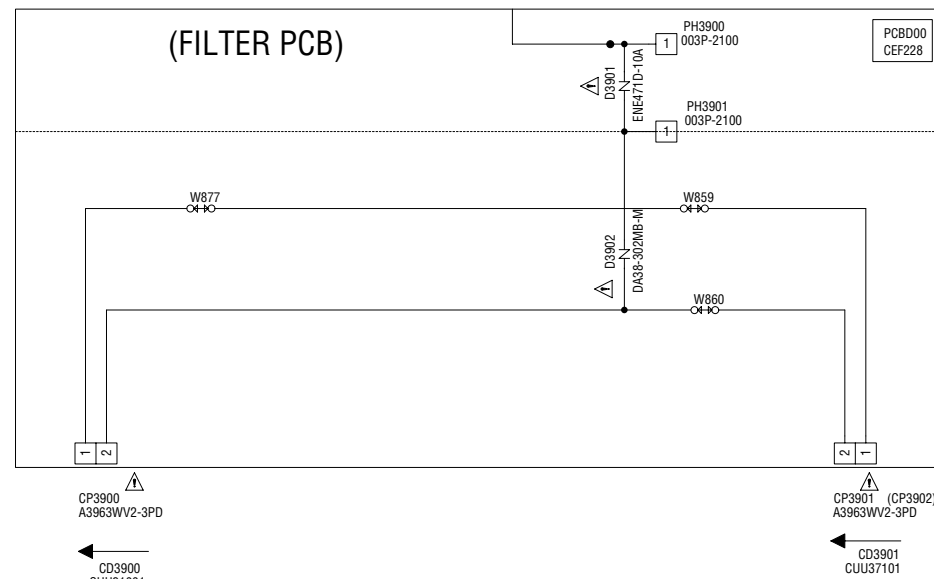
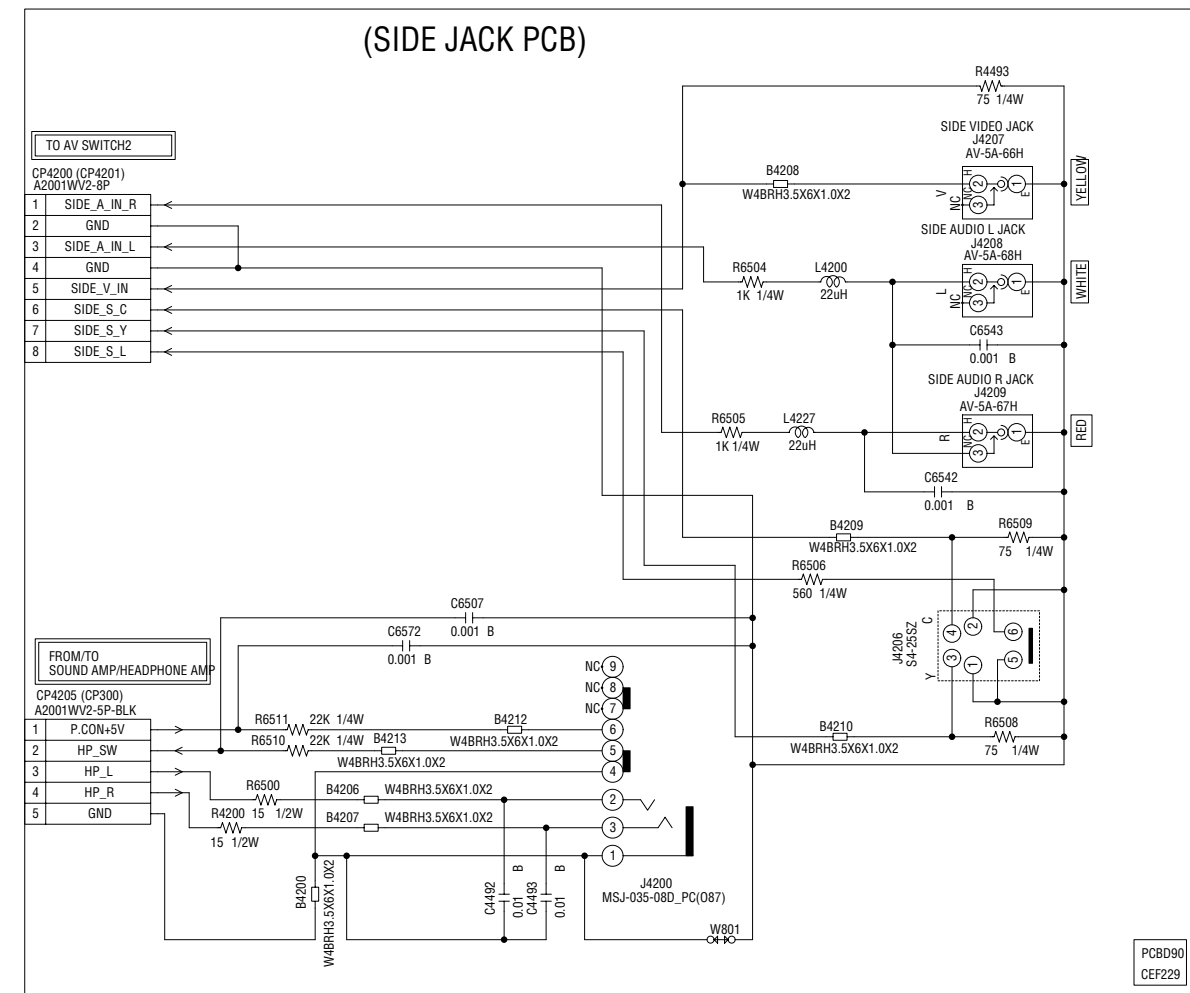
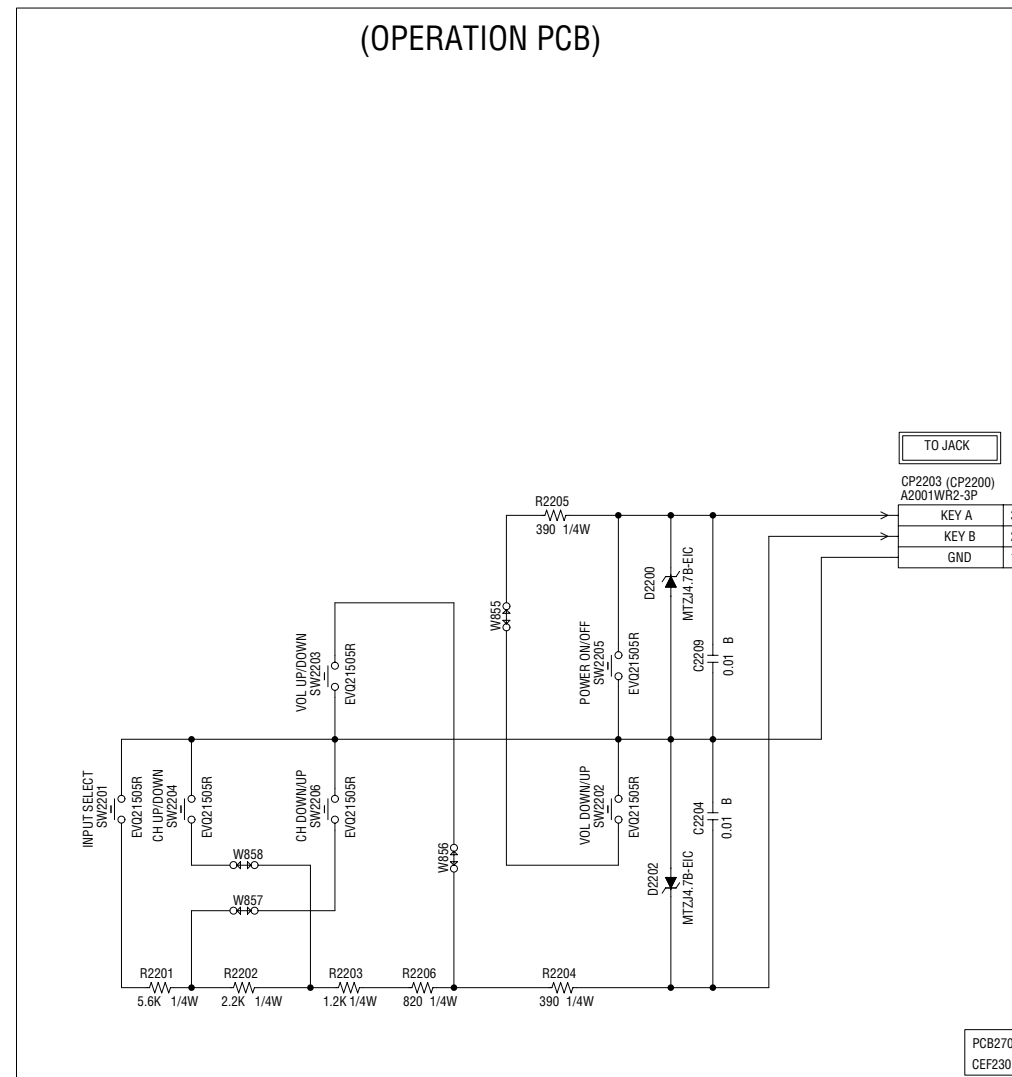



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.


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.

CBDS0  
EE130

## OPERATION/SIDE JACK/REMOCON/FILTER/POWER SWITCH SCHEMATIC DIAGRAM



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

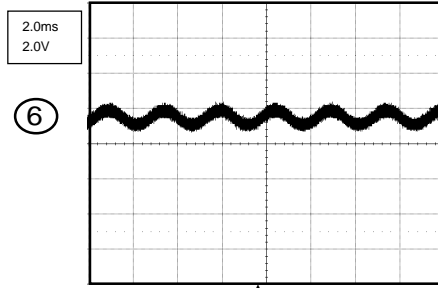
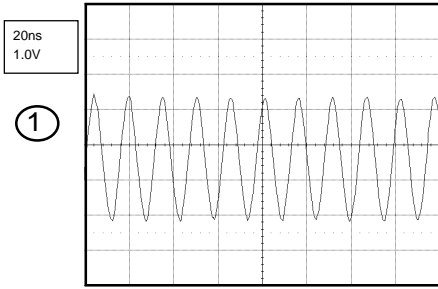
**ATTENTION:** LES PIÈCES RÉPARÉES PAR UN  ÉTANT DANGEREUSES AU POINT DE VUE SÉCURITÉ N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES.

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.

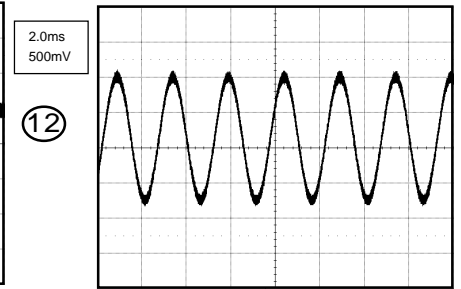
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

# WAVEFORMS

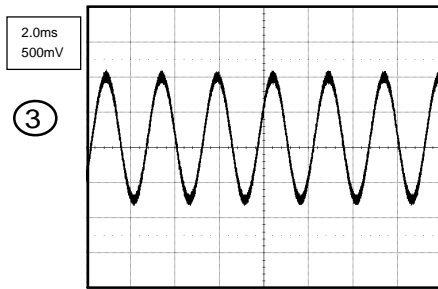
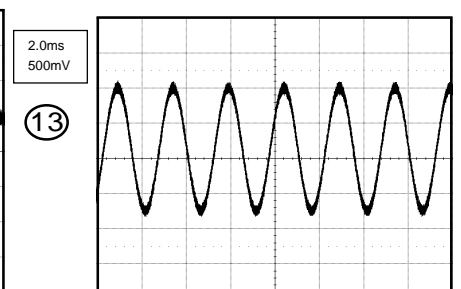
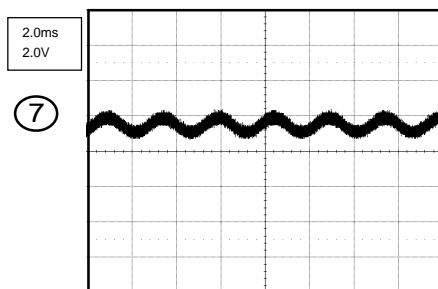
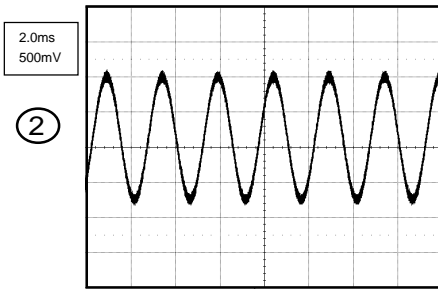
## ADC



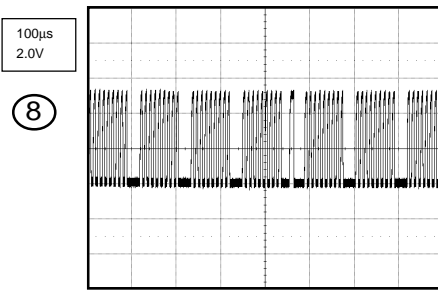
## STEREO



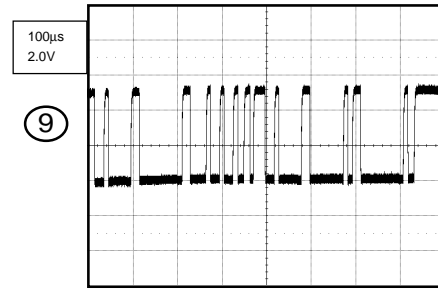
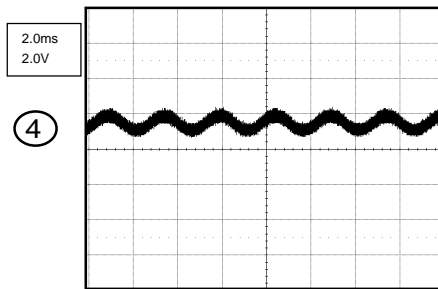
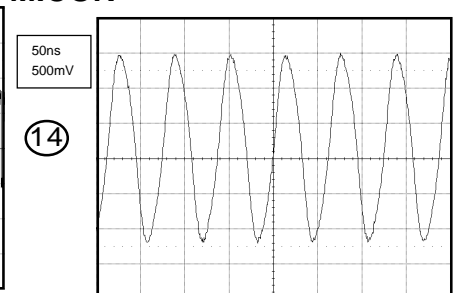
## SOUND AMP/HEADPHONE AMP



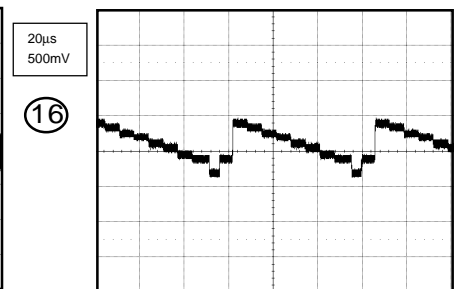
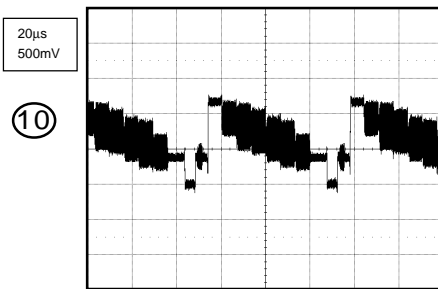
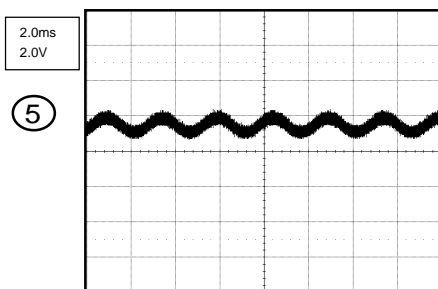
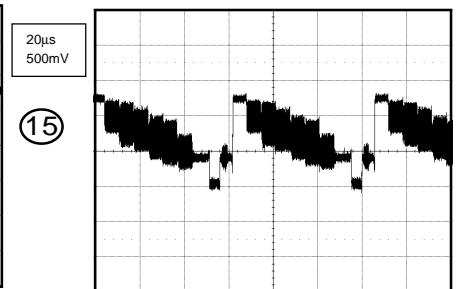
## AV SWITCH2



## MICON

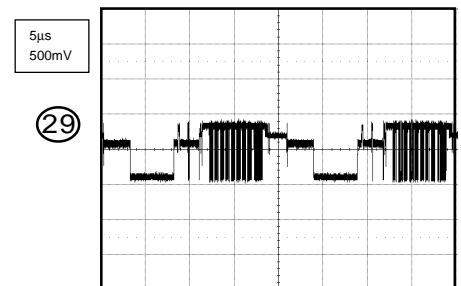
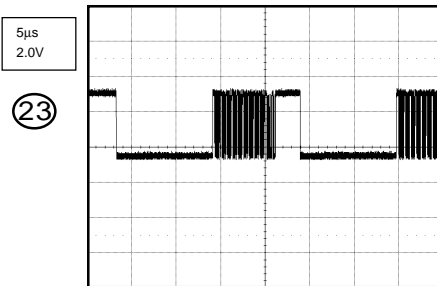
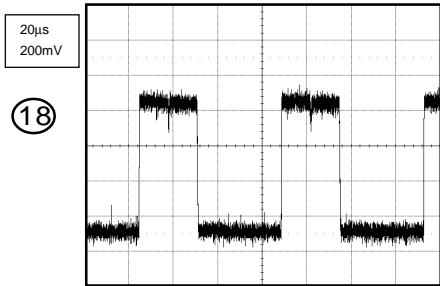
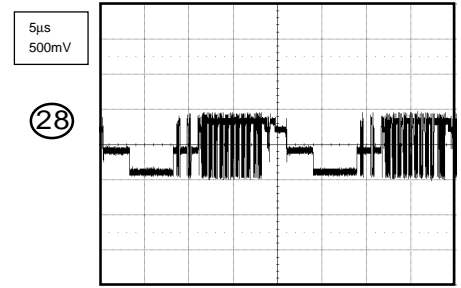
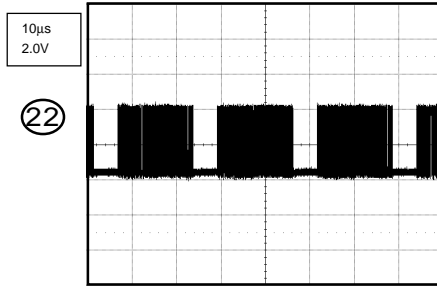
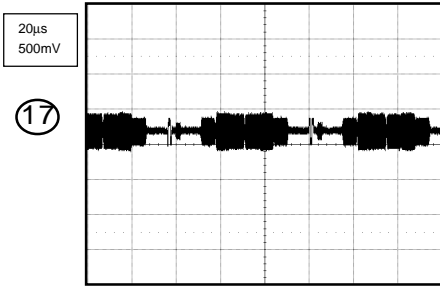


## SCALER

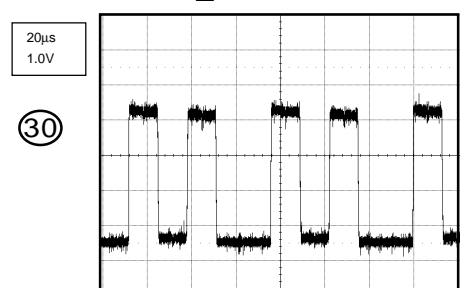
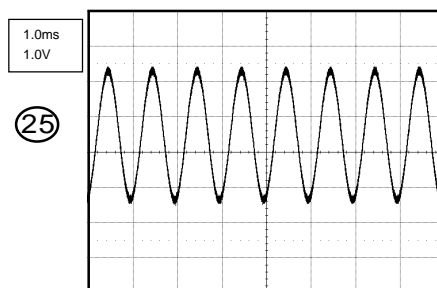
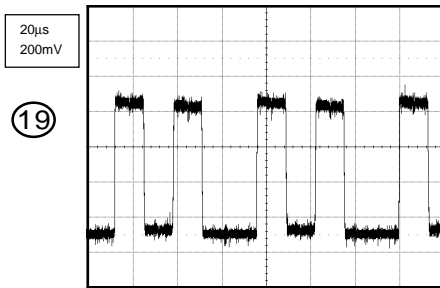


**NOTE:** The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

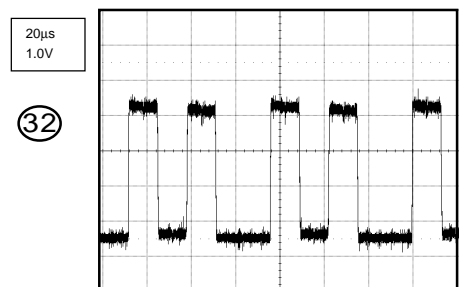
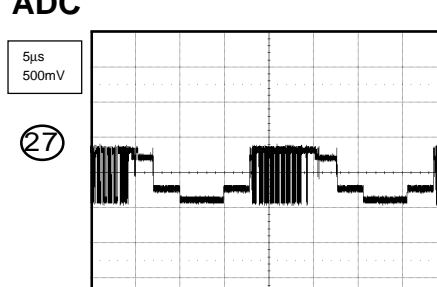
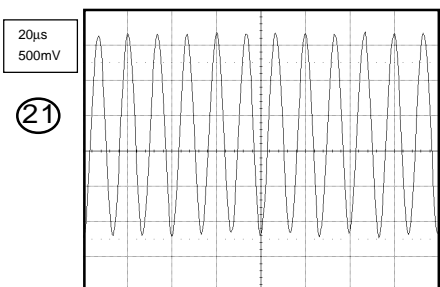
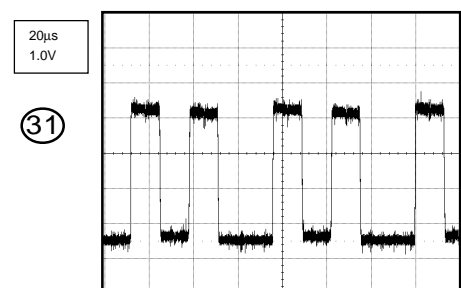
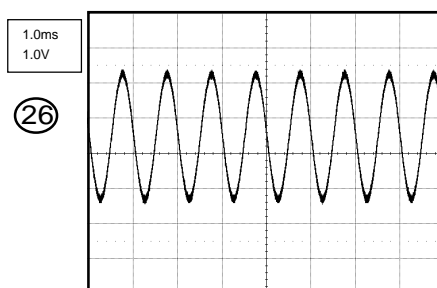
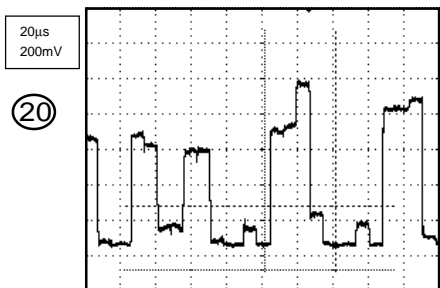
# WAVEFORMS



## ADC



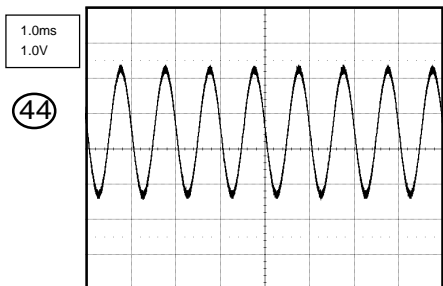
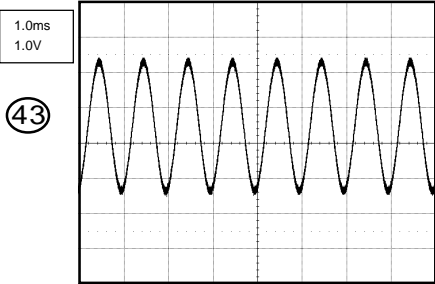
## INTERFACE\_HDMI IC



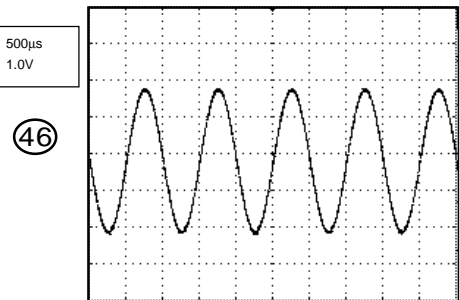
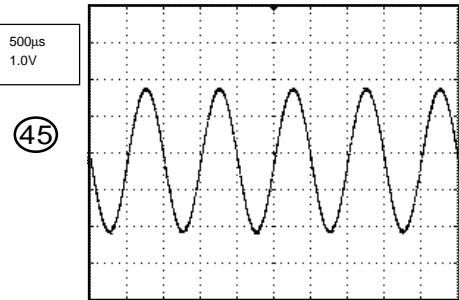
## ADC

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

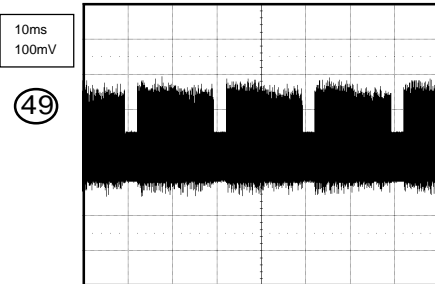
# WAVEFORMS



## HDMI MICON2



## LVDS



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