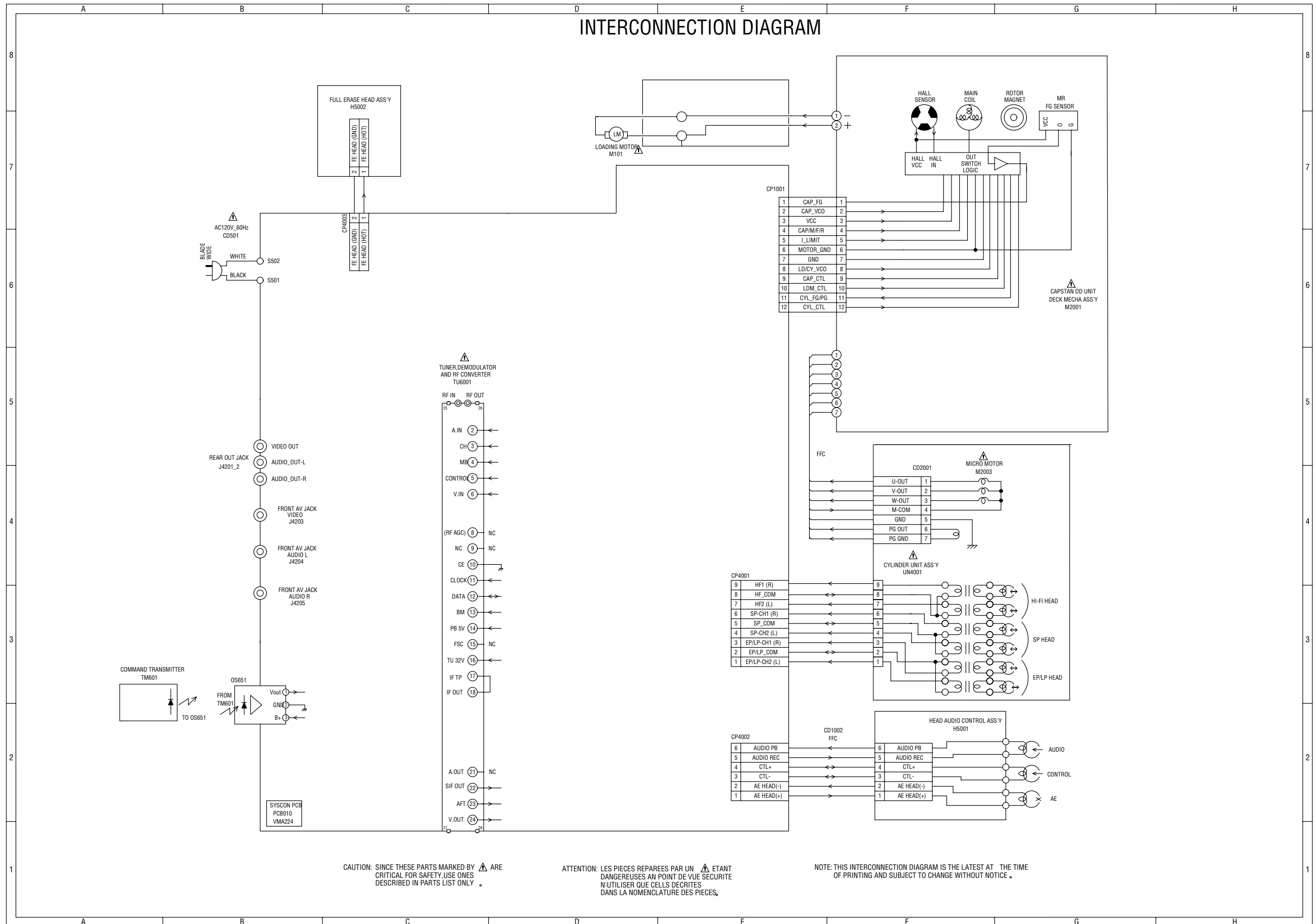
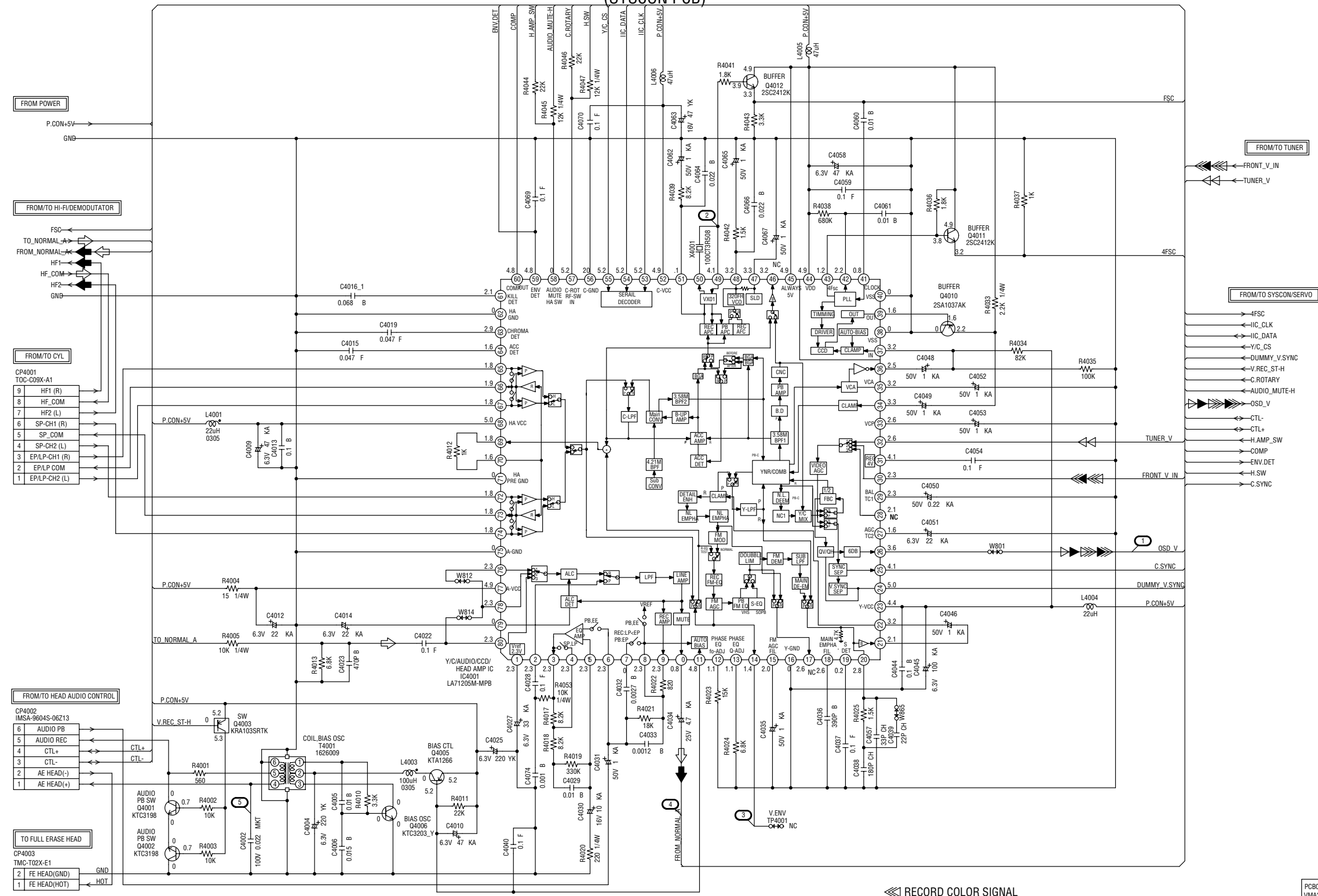


# SECTION 2 CHARTS AND DIAGRAMS

## INTERCONNECTION DIAGRAM



# Y/C/AUDIO/CCD/HEAD AMP SCHEMATIC DIAGRAM (SYSCON PCB)



FROM POWER  
P.CON+5V  
GND

FROM/TO HI-FI/DEMODULATOR  
FSC  
TO\_NORMAL  
FROM\_NORMAL  
HF1  
HF2  
GND

FROM/TO CYL  
CP4001  
TOC-009X-A1  
9 HF1 (R)  
8 HF2 (L)  
7 SP-CH1 (R)  
6 SP-CH2 (L)  
5 EP/LP-CH1 (R)  
4 EP/LP-CH2 (L)  
3 EP/LP-CH1 (L)  
2 EP/LP-CH2 (L)  
1 EP/LP-CH2 (L)

FROM/TO HEAD AUDIO CONTROL  
CP4002  
IMSA-9604S-06Z13  
6 AUDIO PB  
5 AUDIO REC  
4 CTL+  
3 CTL-  
2 AE HEAD(-)  
1 AE HEAD(+)

TO FULL ERASE HEAD  
CP4003  
TMC-T02X-E1  
2 FE HEAD(GND)  
1 FE HEAD(HOT)

FROM/TO TUNER  
FRONT\_V\_IN  
TUNER\_V

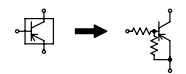
FROM/TO SYSCON/SERVO  
4FSC  
IIC\_CLK  
IIC\_DATA  
Y/C\_CS  
DUMMY\_V\_SYNC  
V\_REC\_ST-H  
C\_ROTARY  
AUDIO\_MUTE-H  
OSD\_V  
CTL-  
CTL+  
HAMP\_SW  
COMP  
ENV\_DET  
H\_SW  
C\_SYNC

FRONT\_V\_IN  
OSD\_V  
C\_SYNC  
DUMMY\_V\_SYNC  
P.CON+5V

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 DURING PLAYBACK.

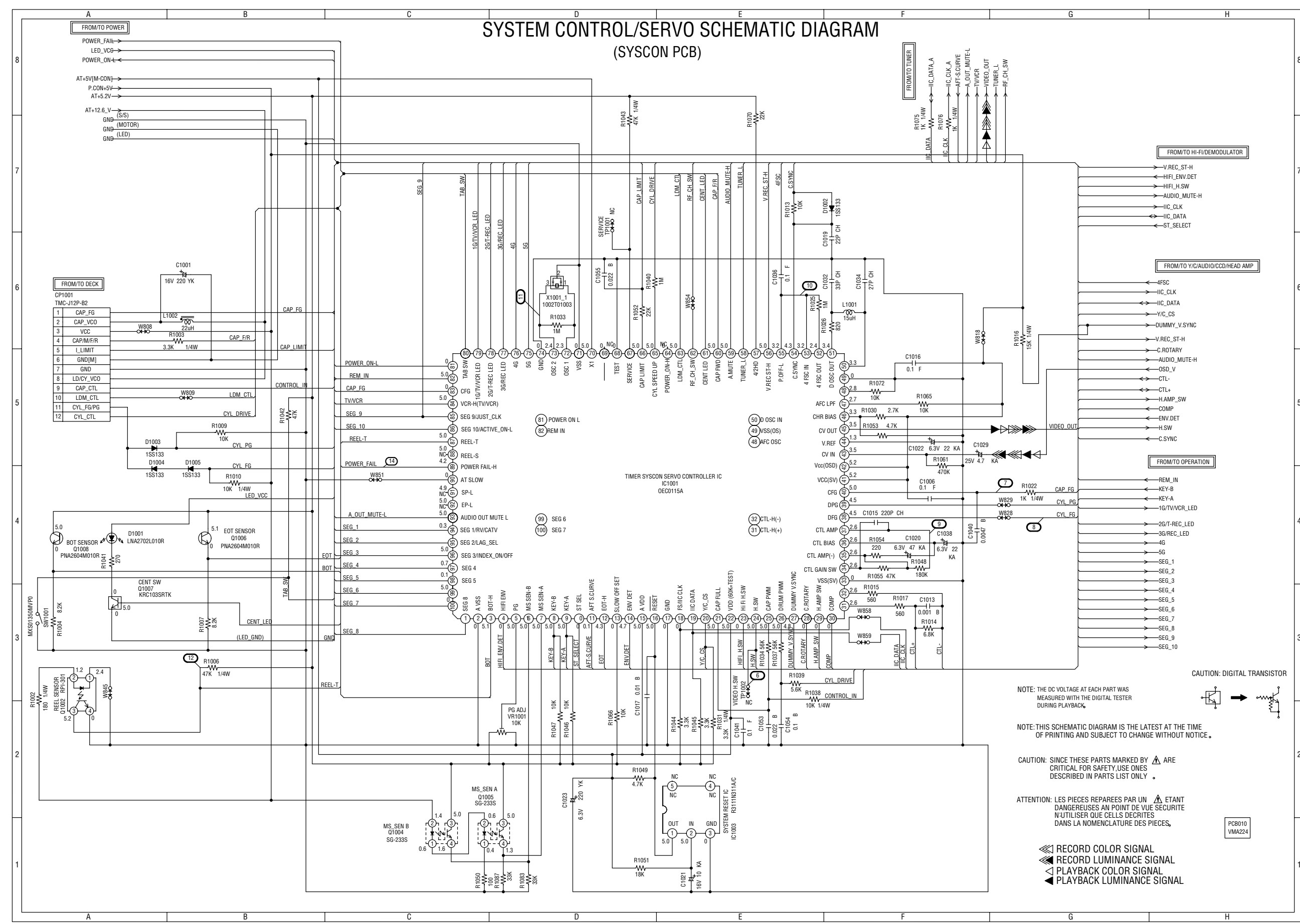
CAUTION: DIGITAL TRANSISTOR



- ◀ RECORD COLOR SIGNAL
- ▶ RECORD LUMINANCE SIGNAL
- ▶ AUDIO SIGNAL(REC)
- ▶ AUDIO SIGNAL(PB)
- ▶ PLAYBACK COLOR SIGNAL
- ▶ PLAYBACK LUMINANCE SIGNAL
- ▶ TUNER VIDEO SIGNAL

PCB010  
VMA224

# SYSTEM CONTROL/SERVO SCHEMATIC DIAGRAM (SYSCON PCB)



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

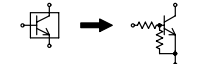
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

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.

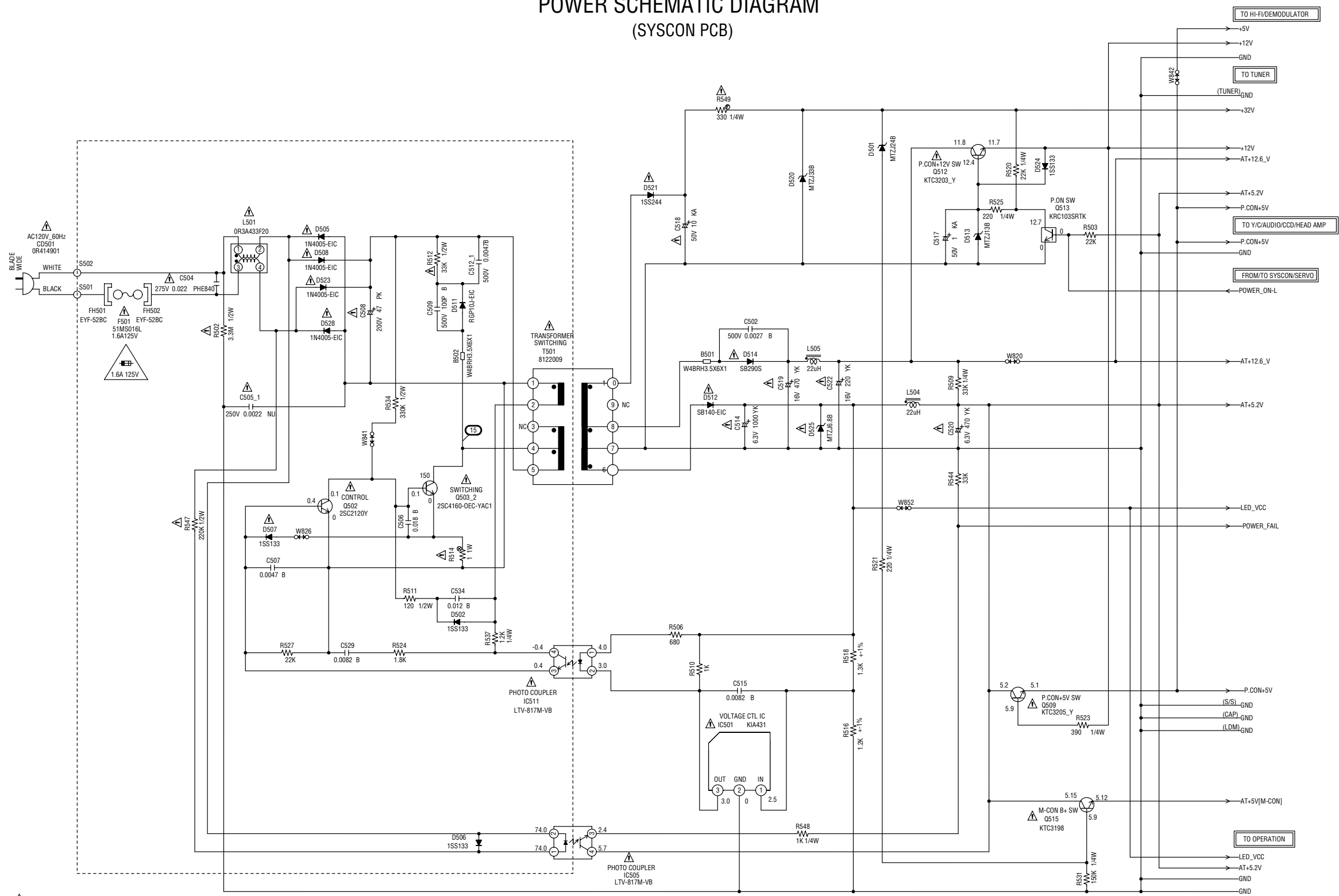
- RECORD COLOR SIGNAL
- RECORD LUMINANCE SIGNAL
- PLAYBACK COLOR SIGNAL
- PLAYBACK LUMINANCE SIGNAL

CAUTION: DIGITAL TRANSISTOR



PCB010  
VMA224

# POWER SCHEMATIC DIAGRAM (SYSCON PCB)



CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.  
1.6A 125V (F501)  
ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D'INCENDIE N'UTILISER QUE DES FUSIBLES DE MEME TYPE 1.6A 125V (F501)

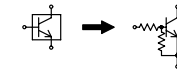
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

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

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

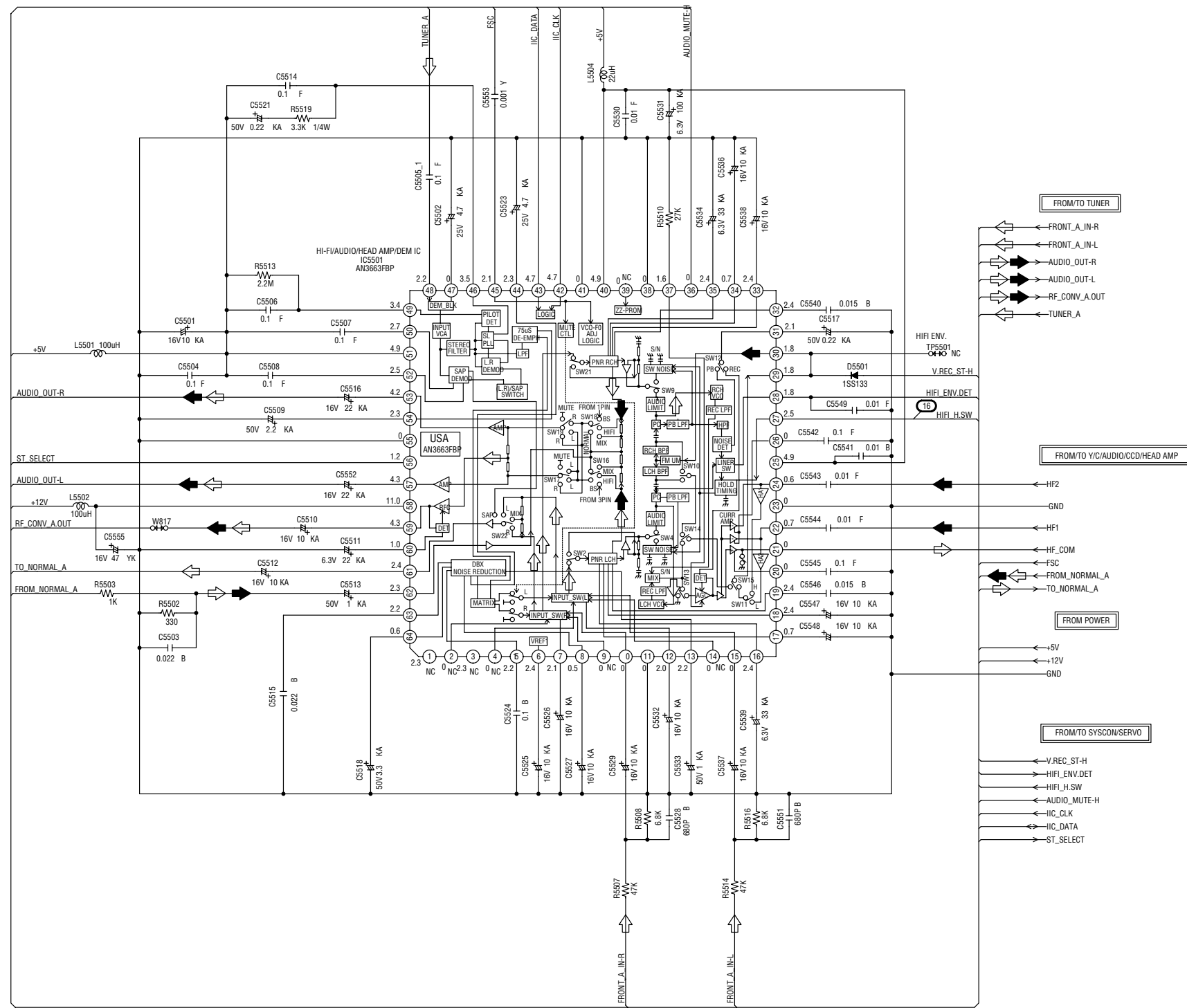
CAUTION: SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

CAUTION: DIGITAL TRANSISTOR



PCB010  
VMA224

# HI-FI/DEMODULATOR SCHEMATIC DIAGRAM (SYSCON PCB)



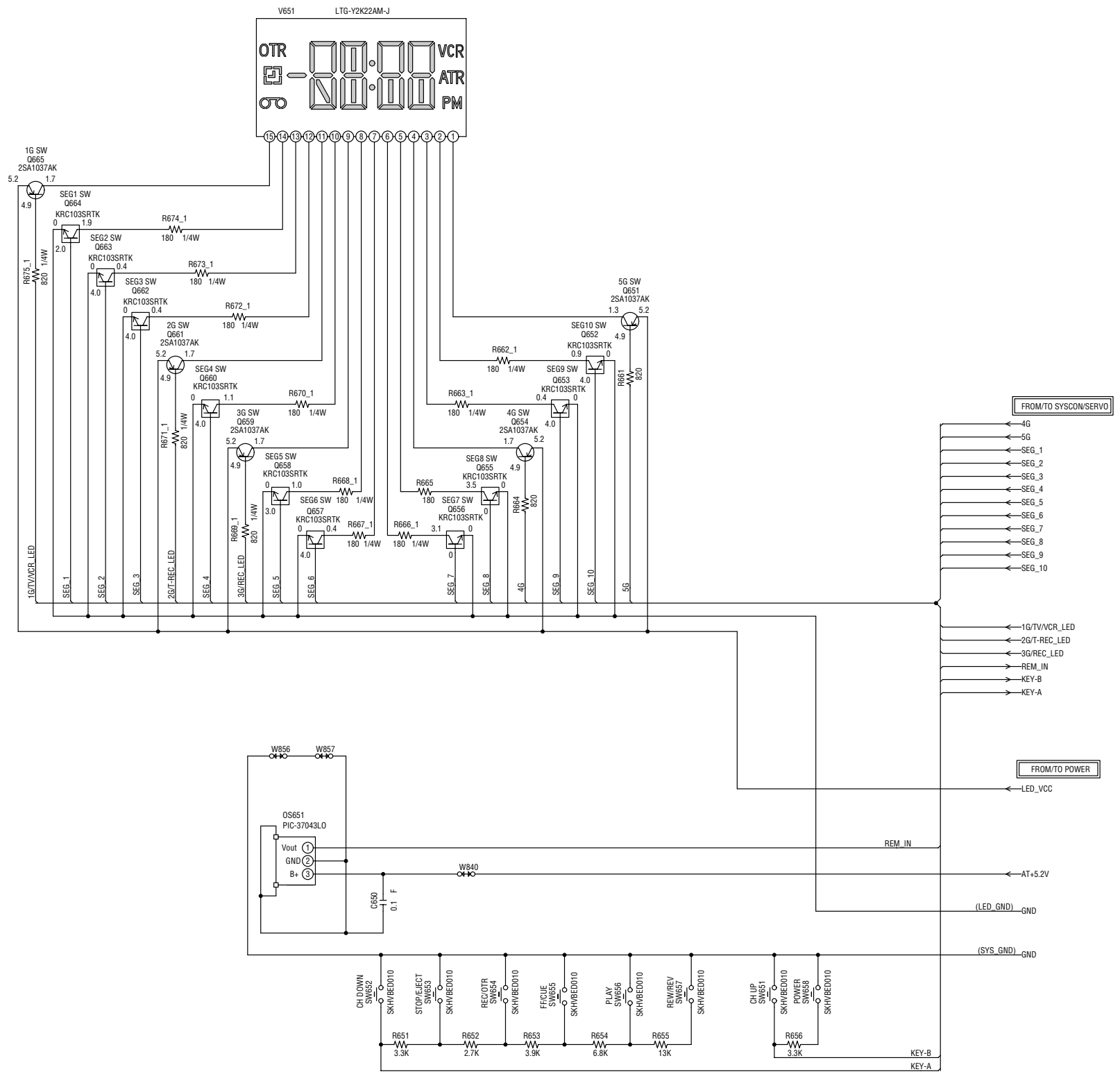
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

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

◁ AUDIO SIGNAL(REC)  
 ◀ AUDIO SIGNAL(PB)

PCB010  
VMA224

# OPERATION SCHEMATIC DIAGRAM [HR-A591U/A591U(C)] (SYSCON PCB)



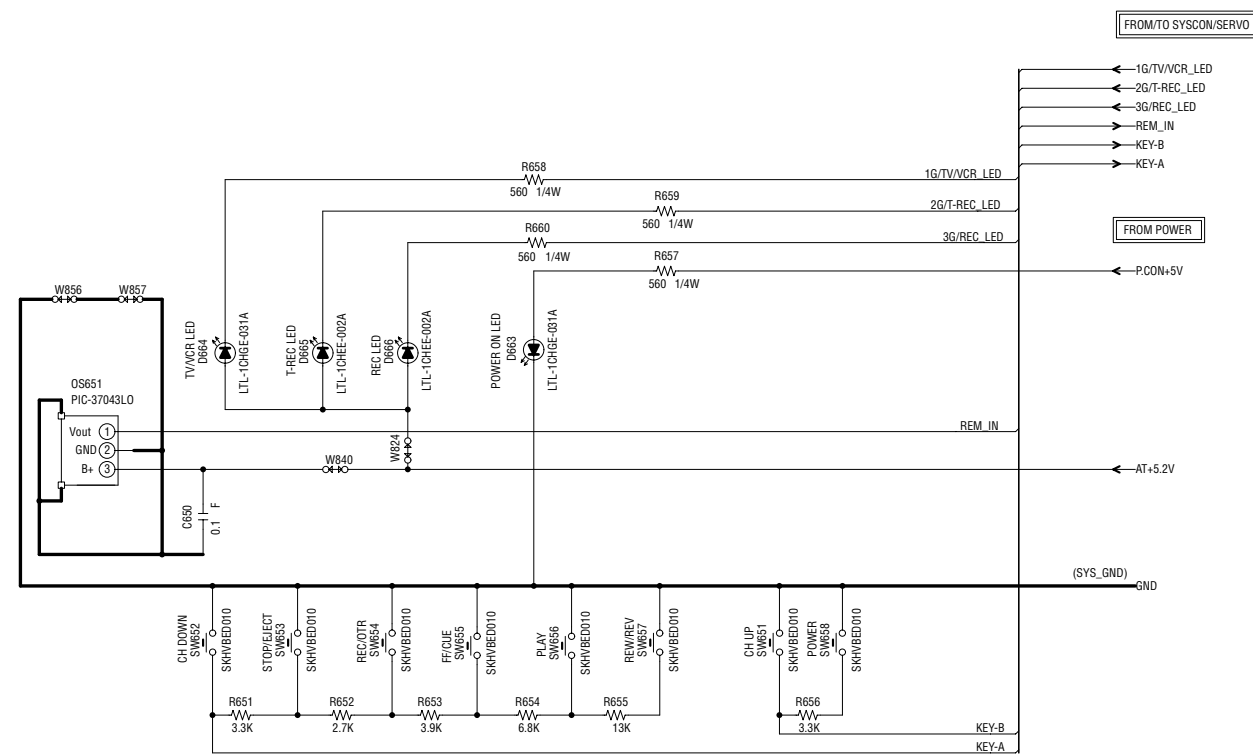
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

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

CAUTION: DIGITAL TRANSISTOR

PCB010  
VMA224

# OPERATION SCHEMATIC DIAGRAM [HR-A590U(C)] (SYS CON PCB)

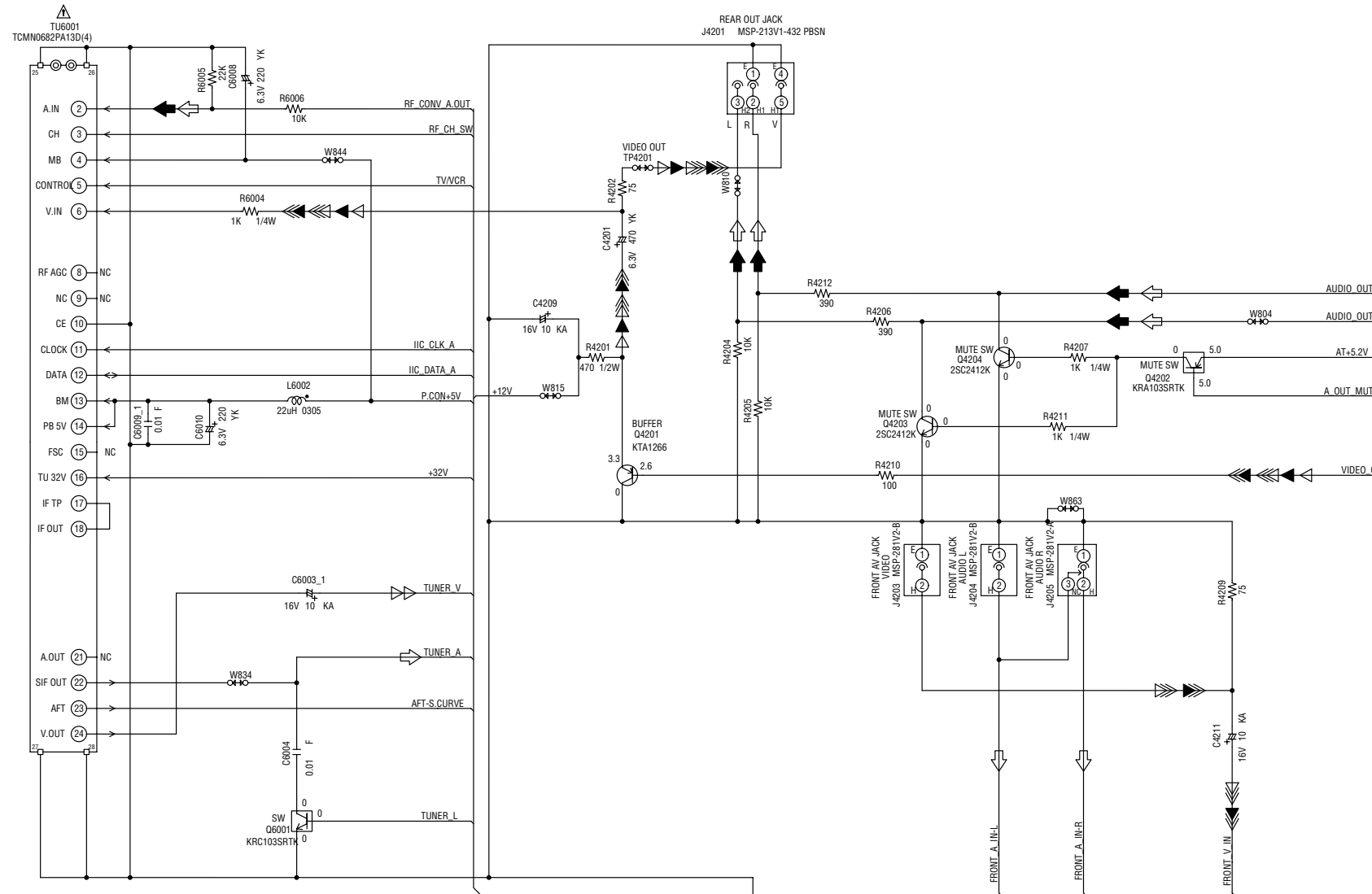


NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK .

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

PC8010  
VMA224

# TUNER SCHEMATIC DIAGRAM [HR-A591U/A591U(C)] (SYSCON PCB)

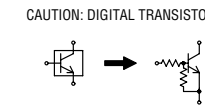
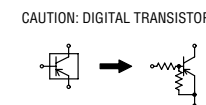


NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

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

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 SÉCURITÉ N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES.

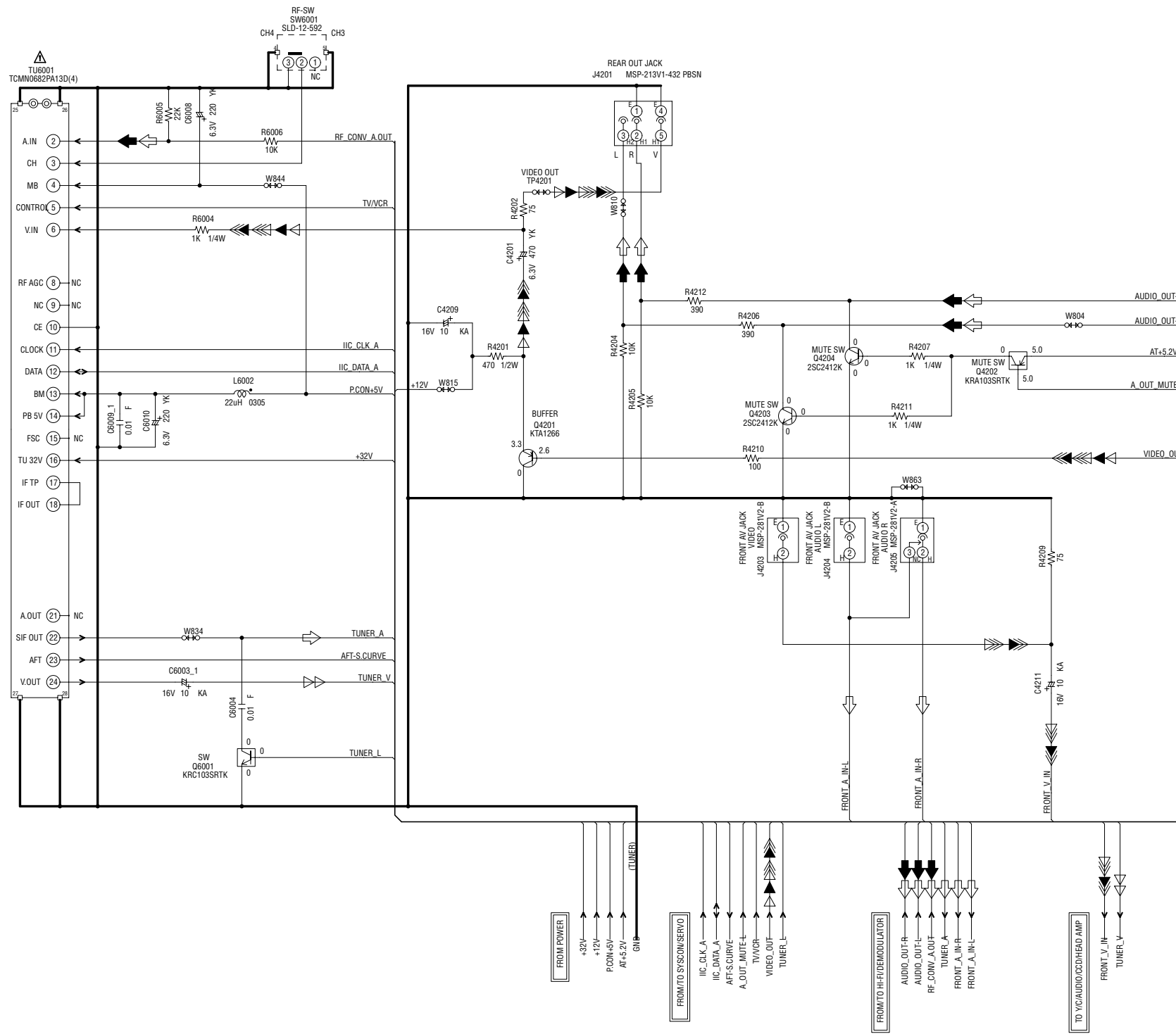


- RECORD LUMINANCE SIGNAL
- RECORD COLOR SIGNAL
- AUDIO SIGNAL(REC)
- AUDIO SIGNAL(PB)
- TUNER VIDEO SIGNAL
- PLAYBACK LUMINANCE SIGNAL
- PLAYBACK COLOR SIGNAL

PC8010  
VMA224



# TUNER SCHEMATIC DIAGRAM [HR-A590U(C)] (SYSCON PCB)



NOTE: THE DC VOLTAGE AT 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.

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, UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES.

CAUTION: DIGITAL TRANSISTOR

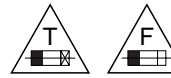
CAUTION: DIGITAL TRANSISTOR



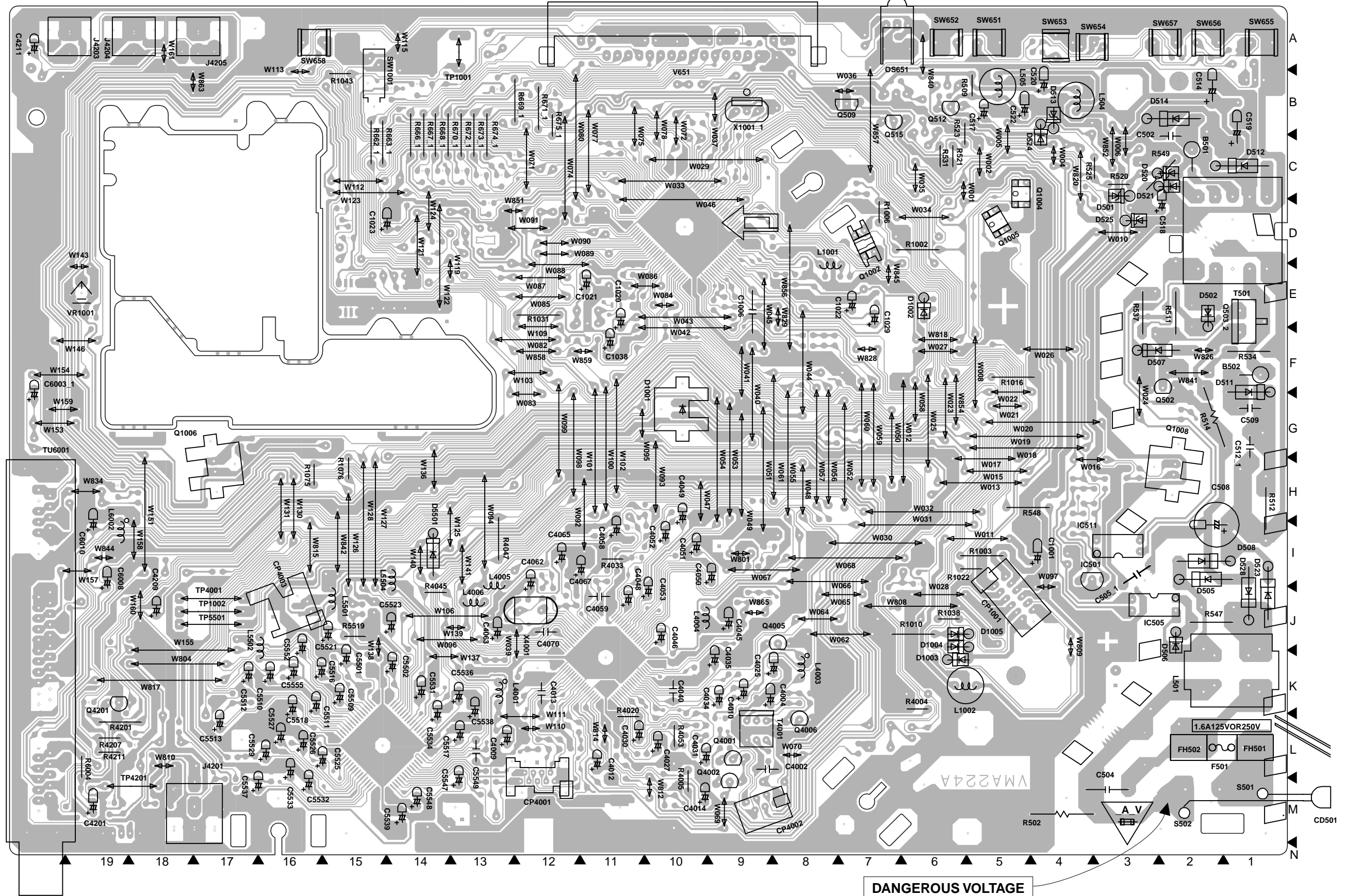
- RECORD LUMINANCE SIGNAL
- RECORD COLOR SIGNAL
- AUDIO SIGNAL (REC)
- AUDIO SIGNAL (PB)
- TUNER VIDEO SIGNAL
- PLAYBACK LUMINANCE SIGNAL
- PLAYBACK COLOR SIGNAL

PCB010  
VMA224

# SYSCON CIRCUIT BOARD (INSERTED PARTS) SOLDER SIDE



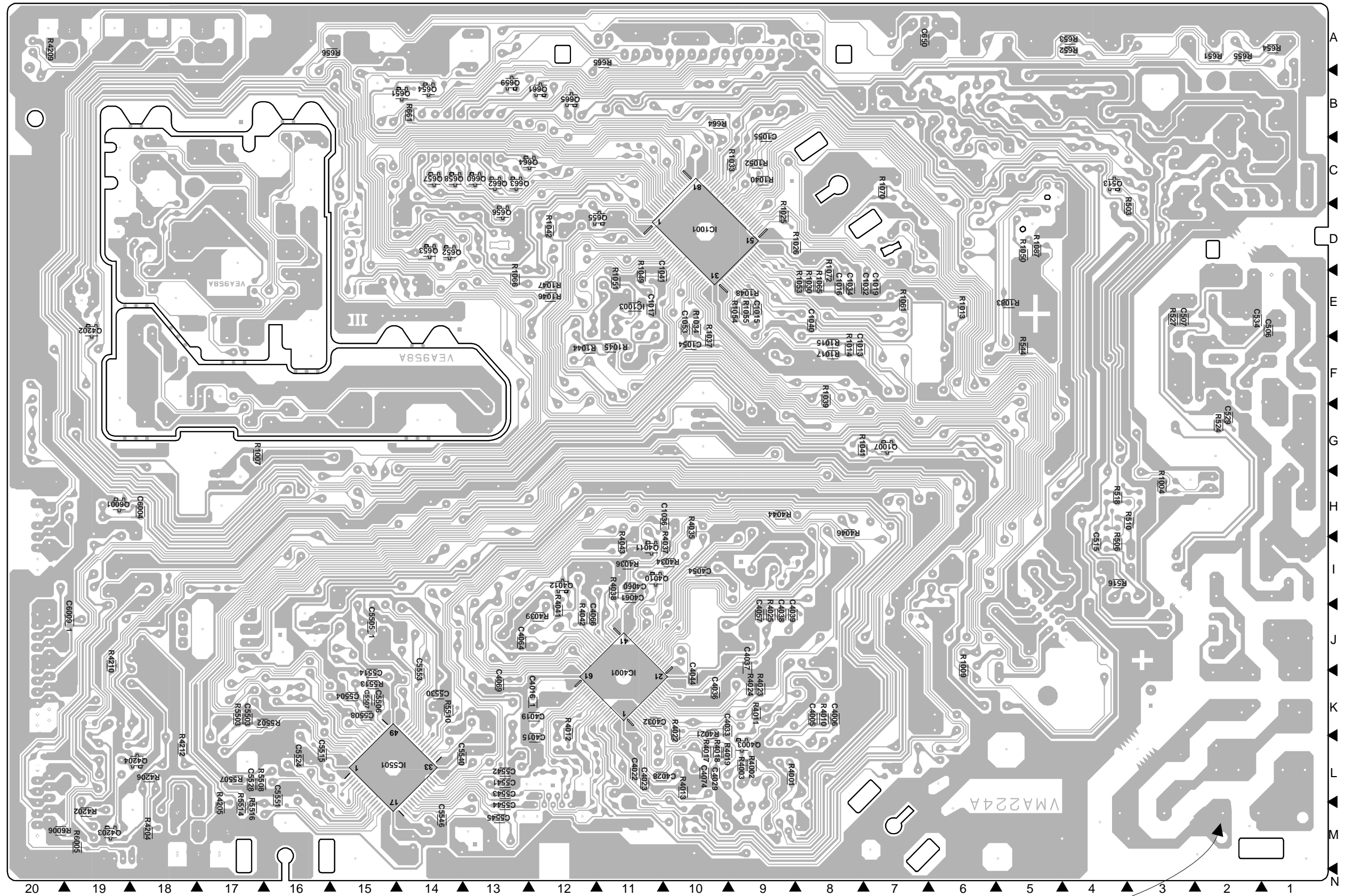
CAUTION :  
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE AND RATED FUSE(S).  
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE CP(S) MANUFACTURED BY ROHM.  
ATTENTION :  
REPLACER PAR DES FUSIBLE DE MEME TYPE.



**SYSCON CIRCUIT BOARD  
(CHIP MOUNTED PARTS)  
SOLDER SIDE**



CAUTION :  
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE AND RATED FUSE(S).  
ATTENTION :  
REPLACER PAR DES FUSIBLE DE MEME TYPE.



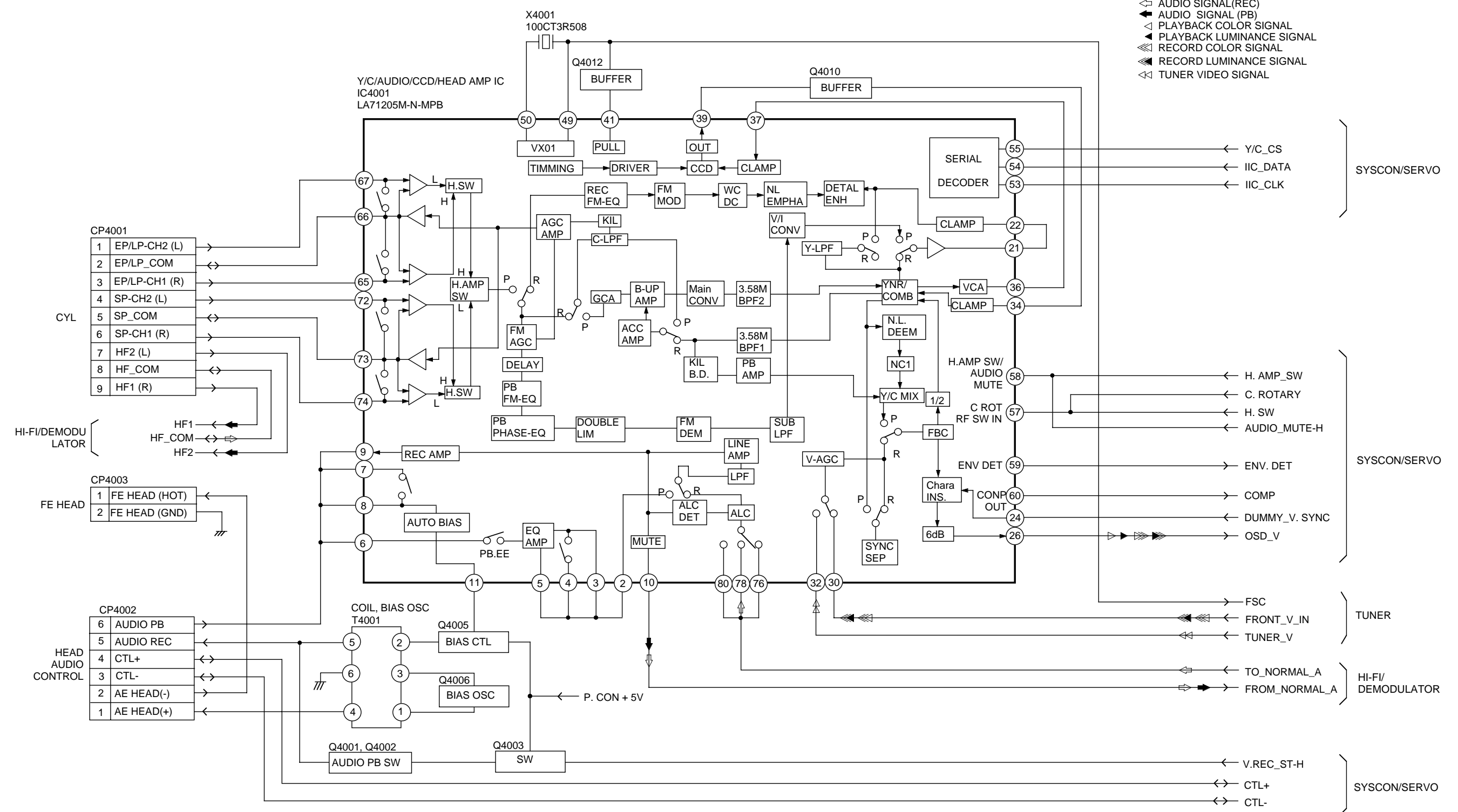
**DA** DANGEROUS VOLTAGE





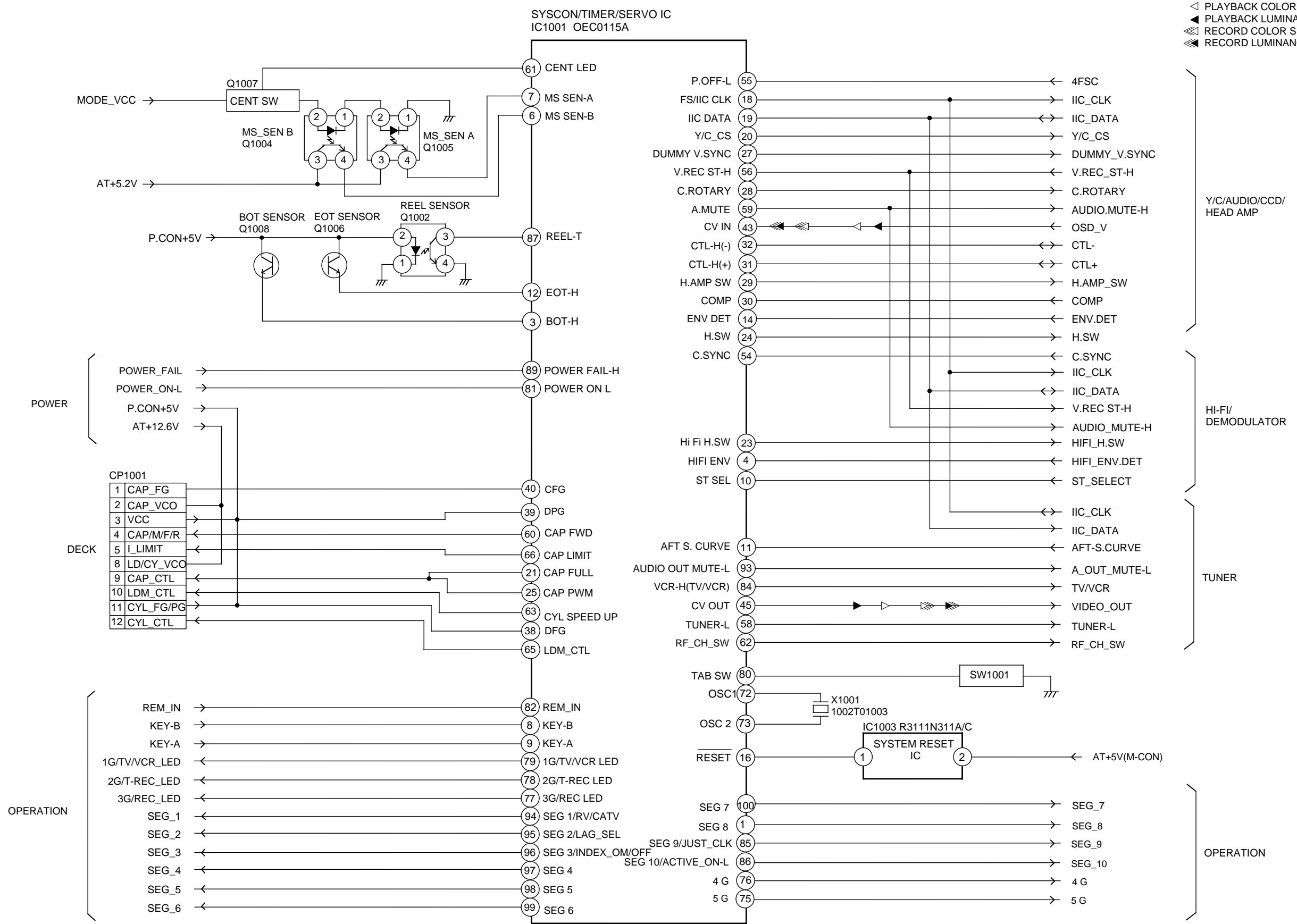
# Y/C/AUDIO/CCD/HEAD AMP BLOCK DIAGRAM

- ◁ AUDIO SIGNAL(REC)
- ◁ AUDIO SIGNAL (PB)
- ▷ PLAYBACK COLOR SIGNAL
- ▷ PLAYBACK LUMINANCE SIGNAL
- ◁ RECORD COLOR SIGNAL
- ◁ RECORD LUMINANCE SIGNAL
- ◁ TUNER VIDEO SIGNAL

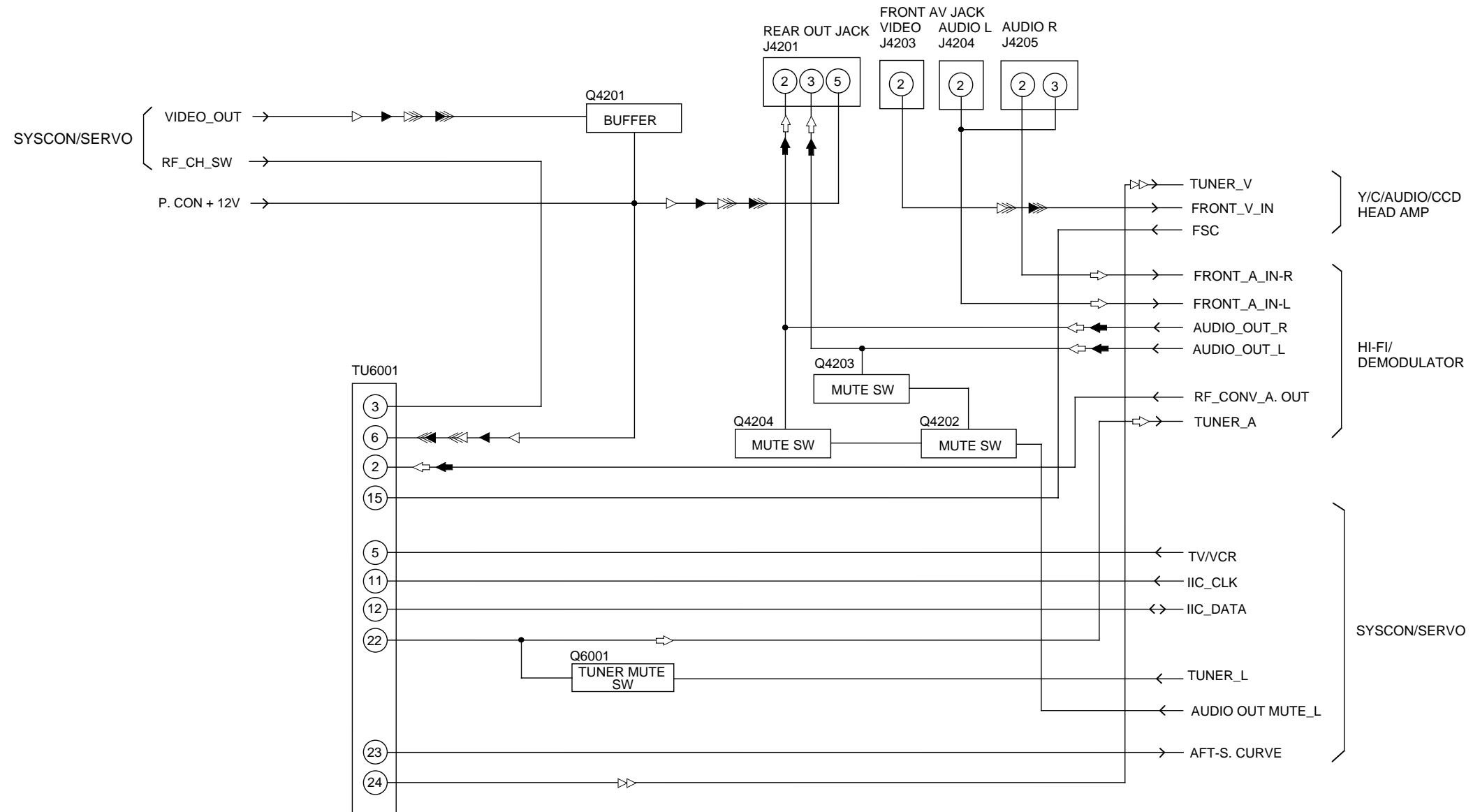


# SYSTEM CONTROL/SERVO BLOCK DIAGRAM

- ◁ PLAYBACK COLOR SIGNAL
- ▶ PLAYBACK LUMINANCE SIGNAL
- ◄ RECORD COLOR SIGNAL
- RECORD LUMINANCE SIGNAL

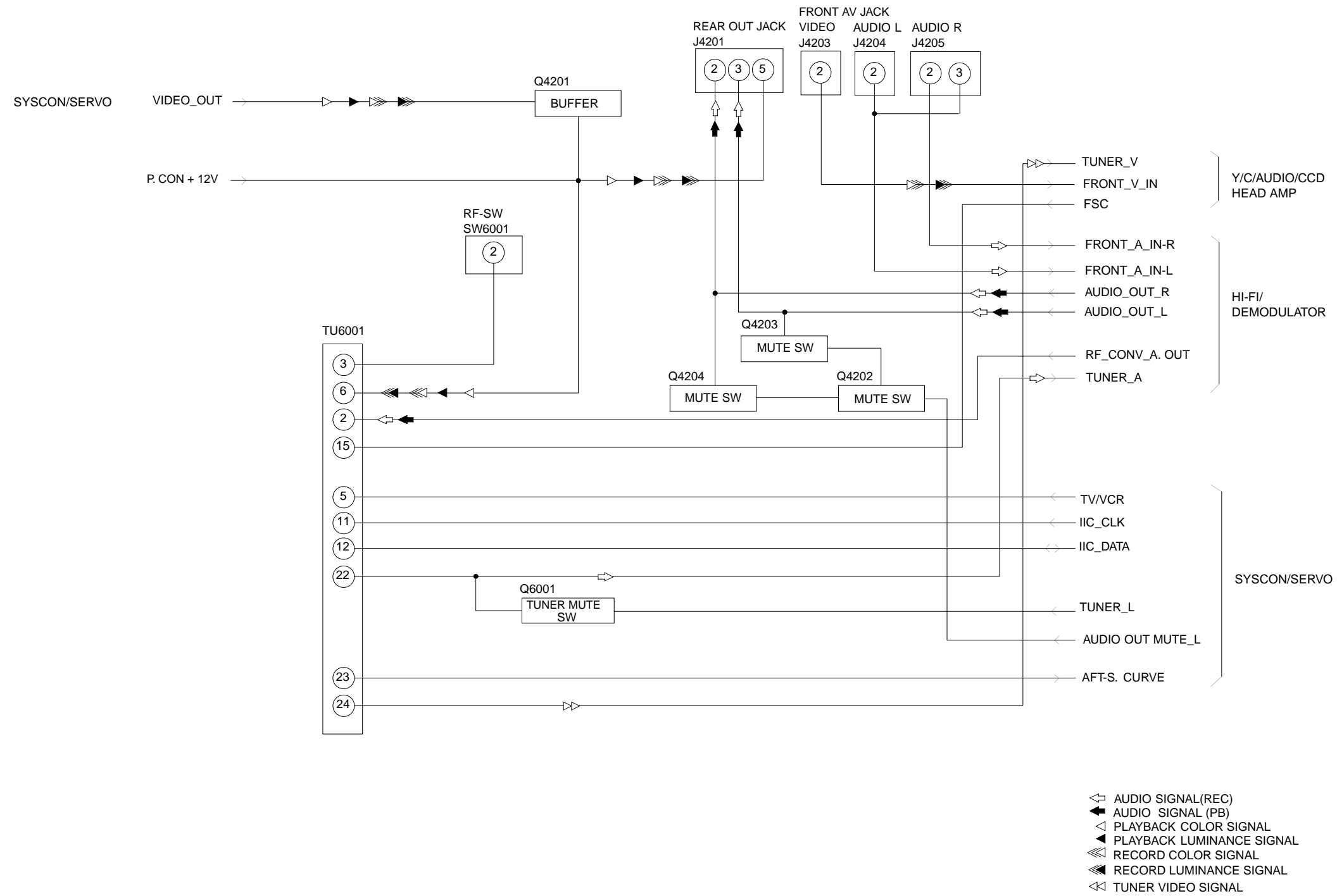


### TUNER BLOCK DIAGRAM [HR-A591U/A591U(C)]



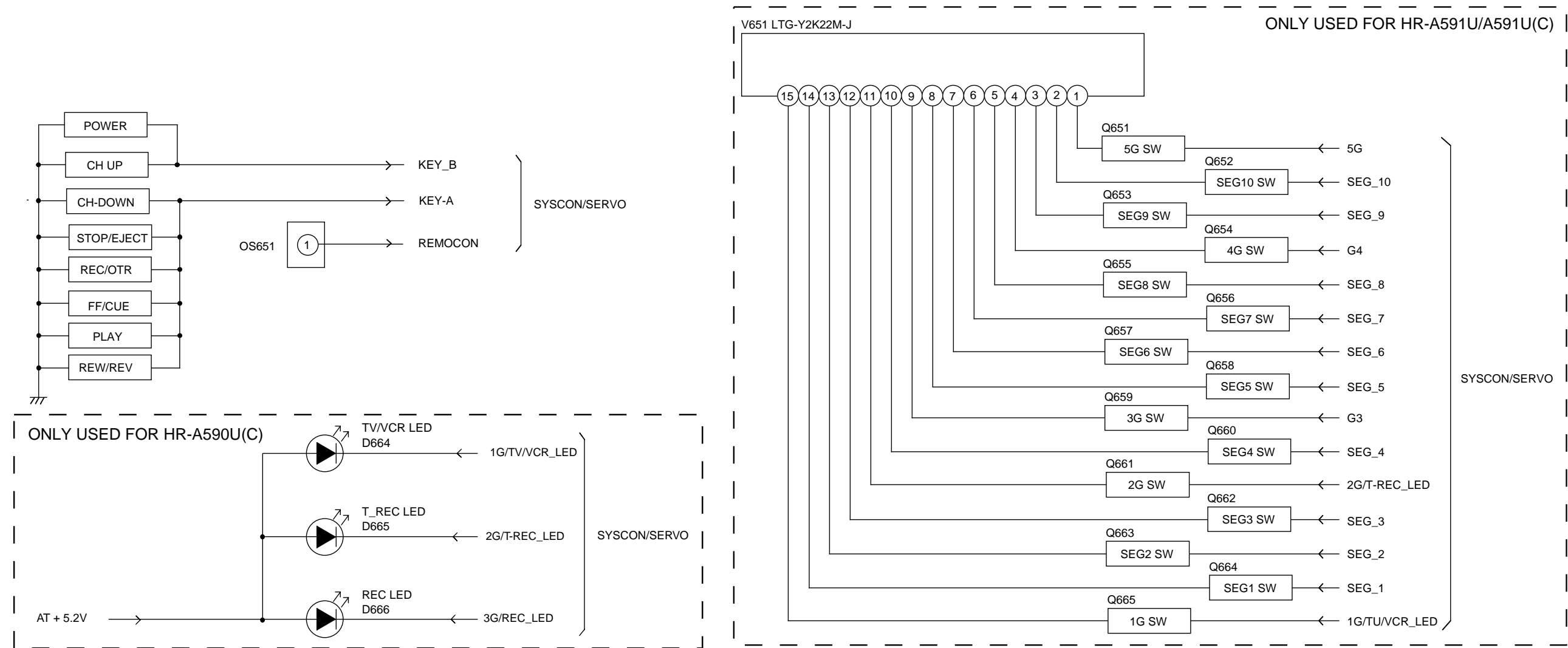
- ◁ AUDIO SIGNAL(REC)
- ▶ AUDIO SIGNAL (PB)
- ▷ PLAYBACK COLOR SIGNAL
- ◀ PLAYBACK LUMINANCE SIGNAL
- ◁◁ RECORD COLOR SIGNAL
- ▶▶ RECORD LUMINANCE SIGNAL
- ◁▷ TUNER VIDEO SIGNAL

### TUNER BLOCK DIAGRAM [HR-A590U(C)]

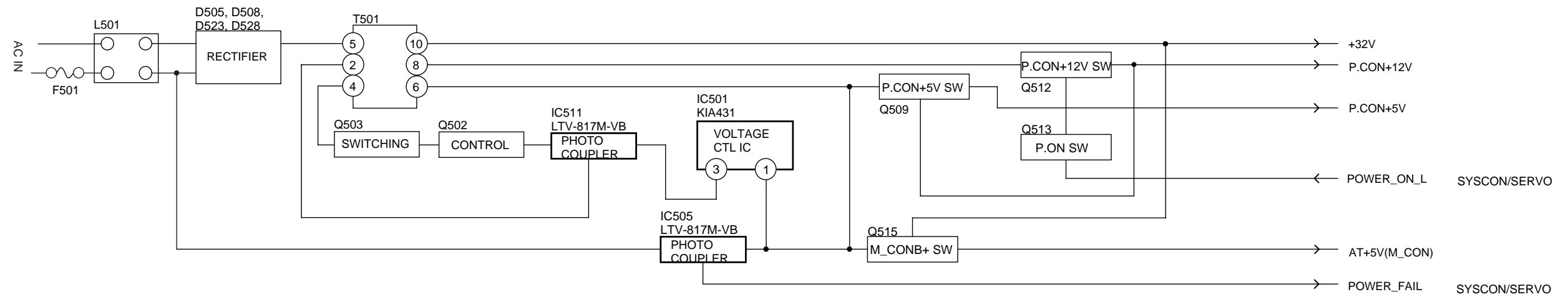




## OPERATION BLOCK DIAGRAM



## POWER BLOCK DIAGRAM



# HI-FI/DEMODULATOR BLOCK DIAGRAM

