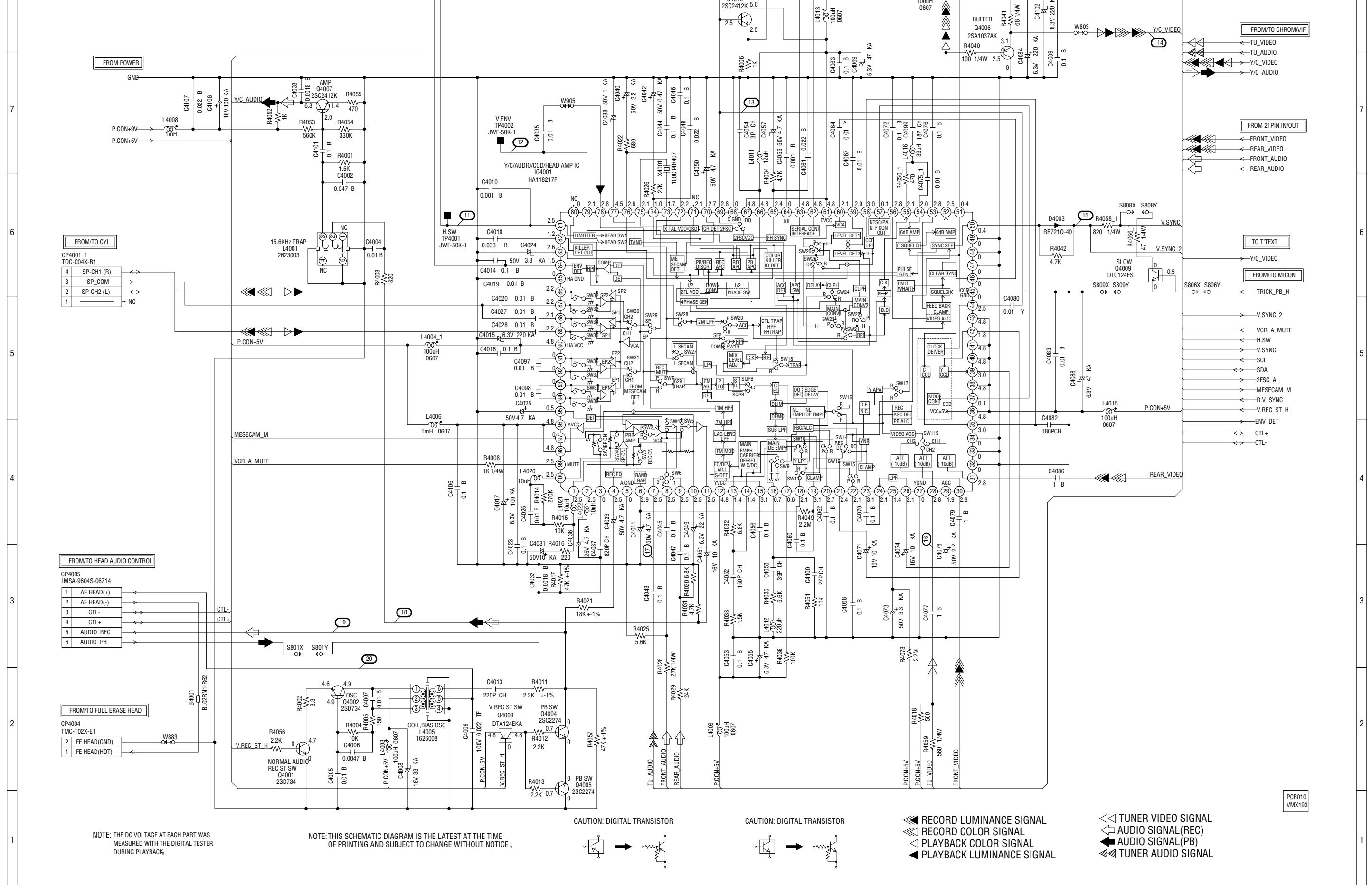


Y/C/AUDIO/HEAD AMP SCHEMATIC DIAGRAM (SYSCON PCB)



FROM POWER

FROM/TO C/VL

FROM/TO HEAD AUDIO CONTROL

FROM/TO FULL ERASE HEAD

CP4001 1
TOC-C04X-B1

| | |
|---|------------|
| 4 | SP-CH1 (R) |
| 3 | SP-COM |
| 2 | SP-CH2 (L) |
| 1 | NC |

CP4005
IMS-9604S-06214

| | |
|---|------------|
| 1 | AE HEAD(+) |
| 2 | AE HEAD(-) |
| 3 | CTL- |
| 4 | CTL+ |
| 5 | AUDIO_REC |
| 6 | AUDIO_PB |

CP4004
TMC-T02X-E1

| | |
|---|--------------|
| 2 | FE HEAD(GND) |
| 1 | FE HEAD(HOT) |

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

CAUTION: DIGITAL TRANSISTOR

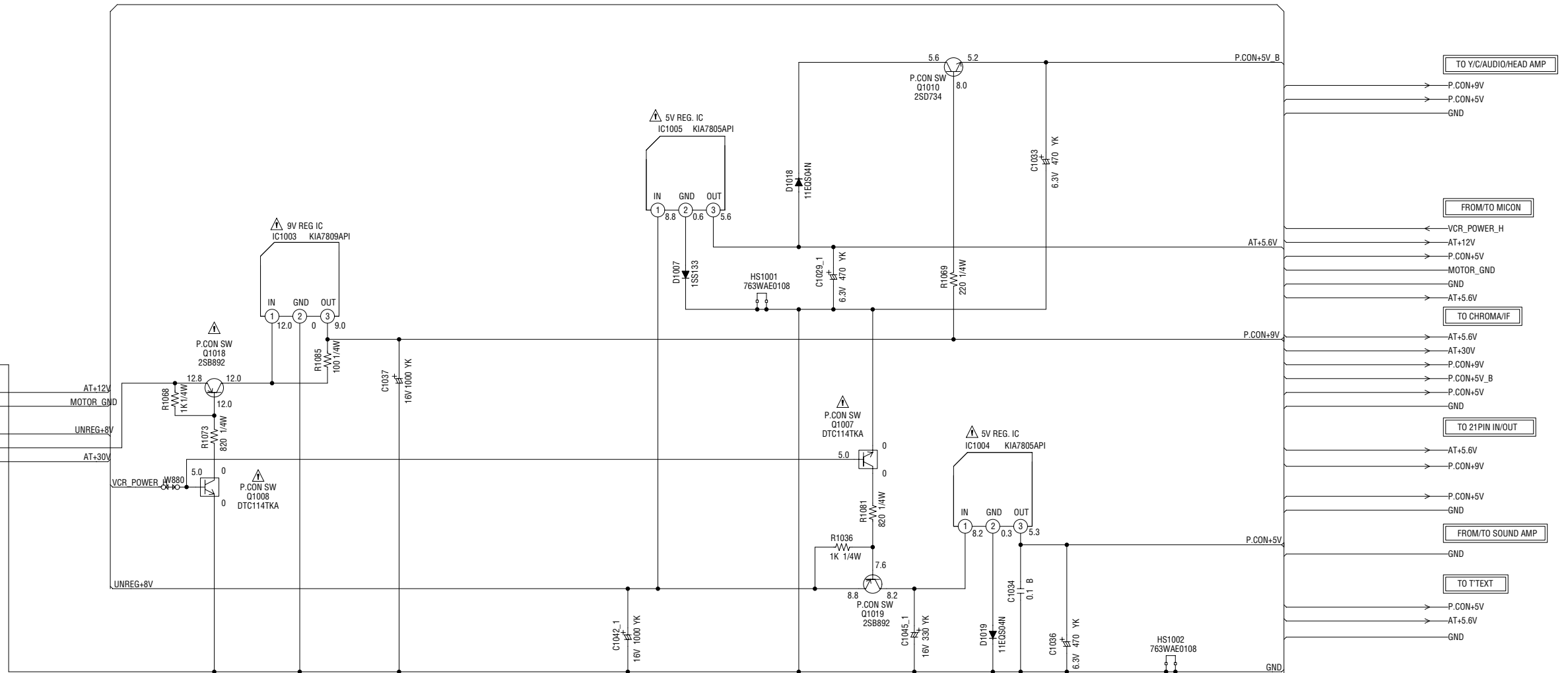
- ▶ RECORD LUMINANCE SIGNAL
- ▶ RECORD COLOR SIGNAL
- ▶ PLAYBACK COLOR SIGNAL
- ▶ PLAYBACK LUMINANCE SIGNAL

- ▶ TUNER VIDEO SIGNAL
- ▶ AUDIO SIGNAL(REC)
- ▶ AUDIO SIGNAL(PB)
- ▶ TUNER AUDIO SIGNAL

PCB010
VMX193

POWER SCHEMATIC DIAGRAM (SYSCON PCB)

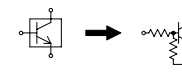
| FROM TV POWER | |
|---------------|-----------|
| CD810 (CP810) | |
| CH28096A | |
| 1 | GND |
| 2 | GND |
| 3 | AT+12V |
| 4 | MOTOR_GND |
| 5 | UNREG+8V |
| 6 | UNREG+8V |
| 7 | AT+13V |
| 8 | AT+30V |



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

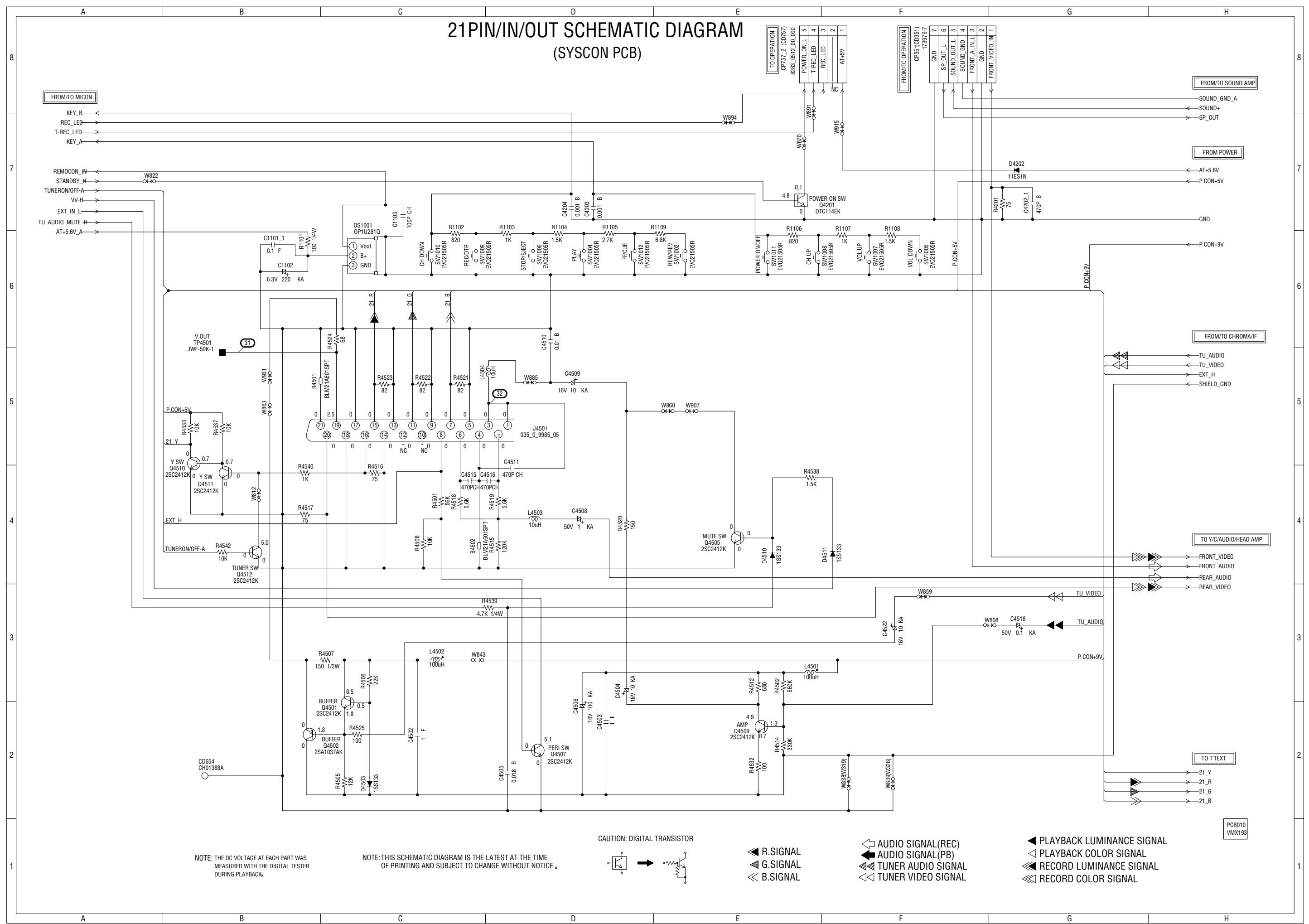
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

CAUTION: DIGITAL TRANSISTOR



PC8010
VMX193

21PIN/IN/OUT 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: DIGITAL TRANSISTOR



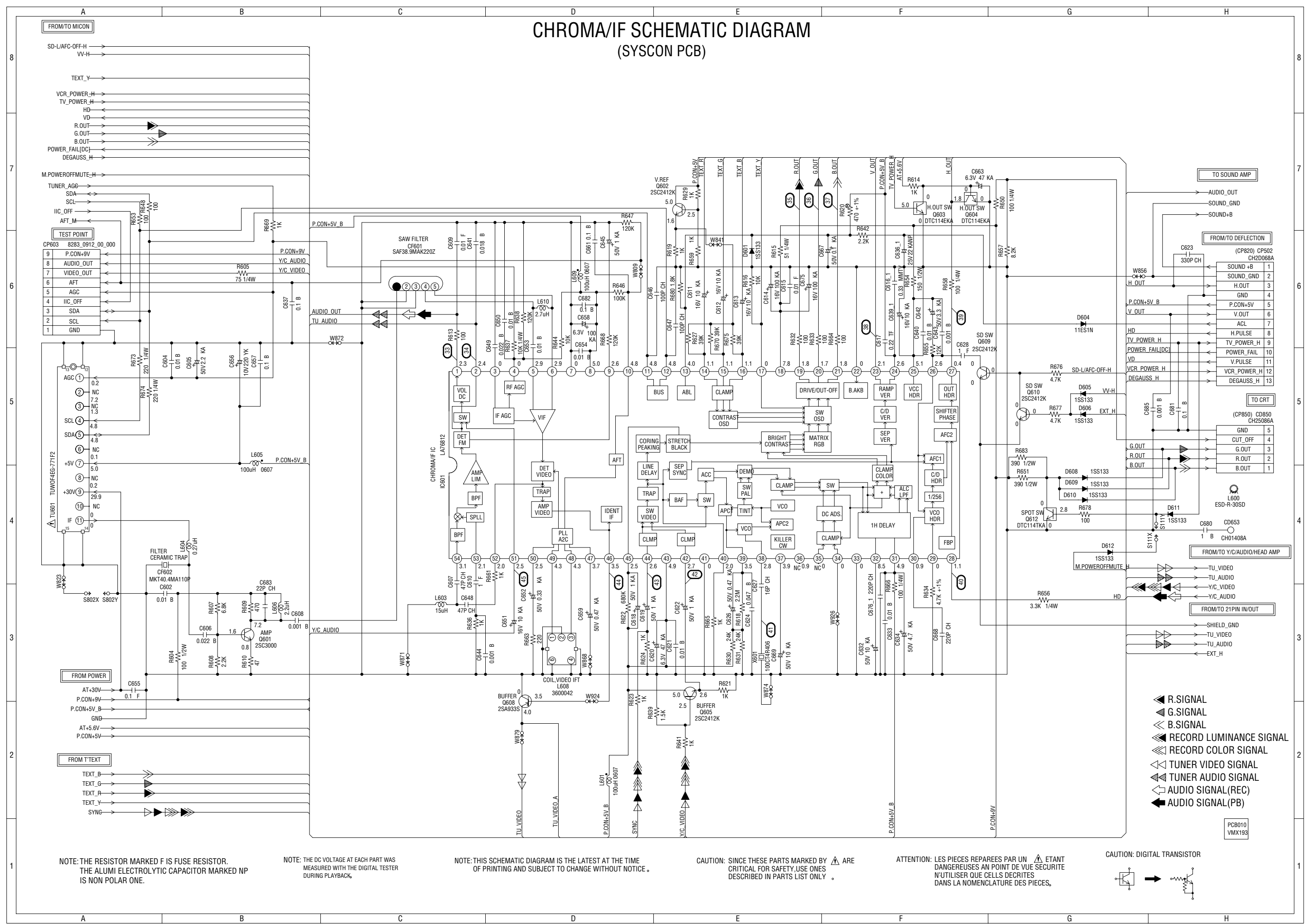
◀ R.SIGNAL
◀ G.SIGNAL
◀ B.SIGNAL

◀ AUDIO SIGNAL (REC)
◀ AUDIO SIGNAL (PB)
◀ TUNER AUDIO SIGNAL
◀ TUNER VIDEO SIGNAL

◀ PLAYBACK LUMINANCE SIGNAL
◀ PLAYBACK COLOR SIGNAL
◀ RECORD LUMINANCE SIGNAL
◀ RECORD COLOR SIGNAL

PCB010
VMX193

CHROMA/IF SCHEMATIC DIAGRAM (SYSCON PCB)



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

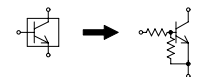
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

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

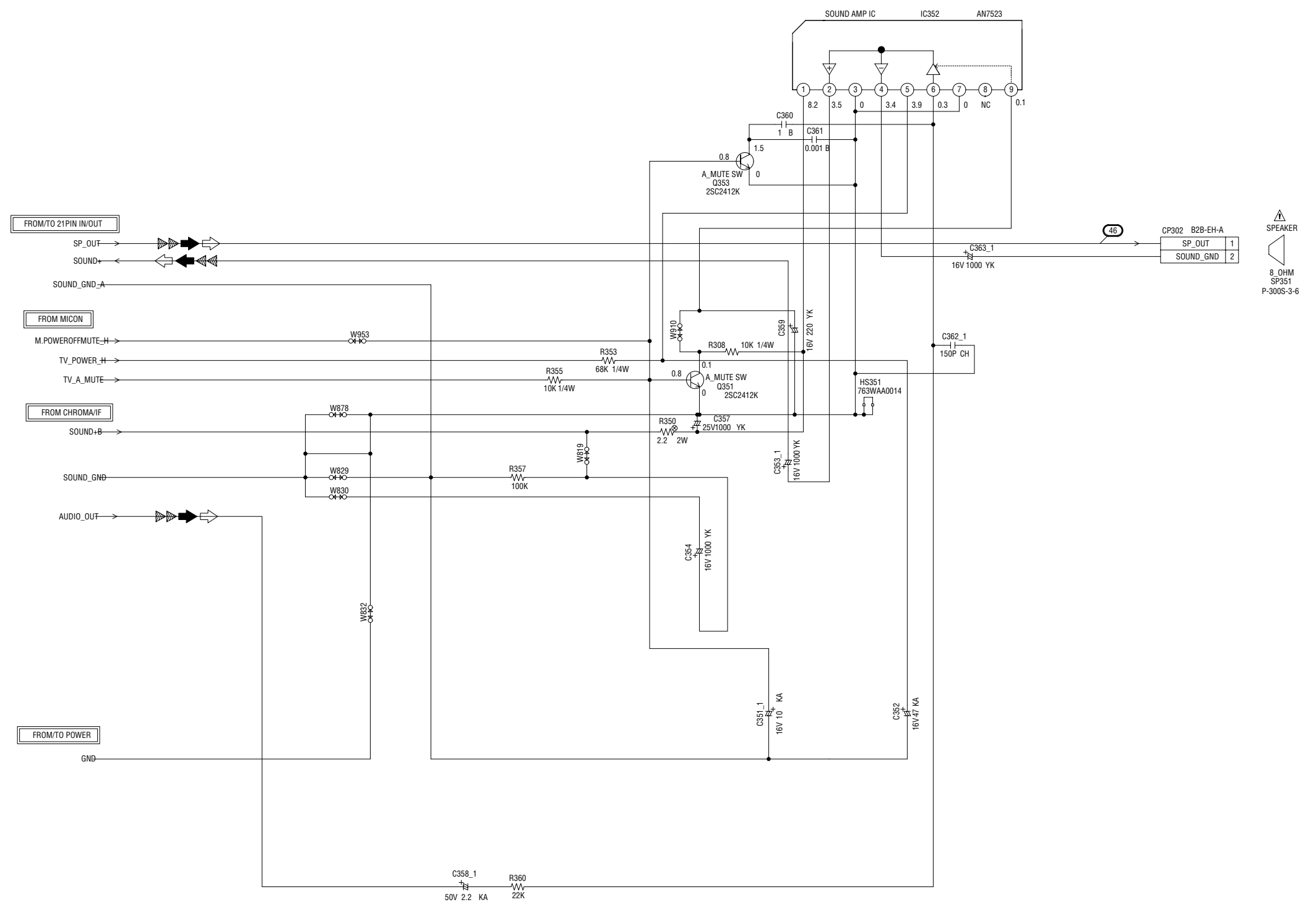
CAUTION: SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

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

CAUTION: DIGITAL TRANSISTOR



SOUND AMP SCHEMATIC DIAGRAM (SYSCON 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 DURING PLAYBACK.

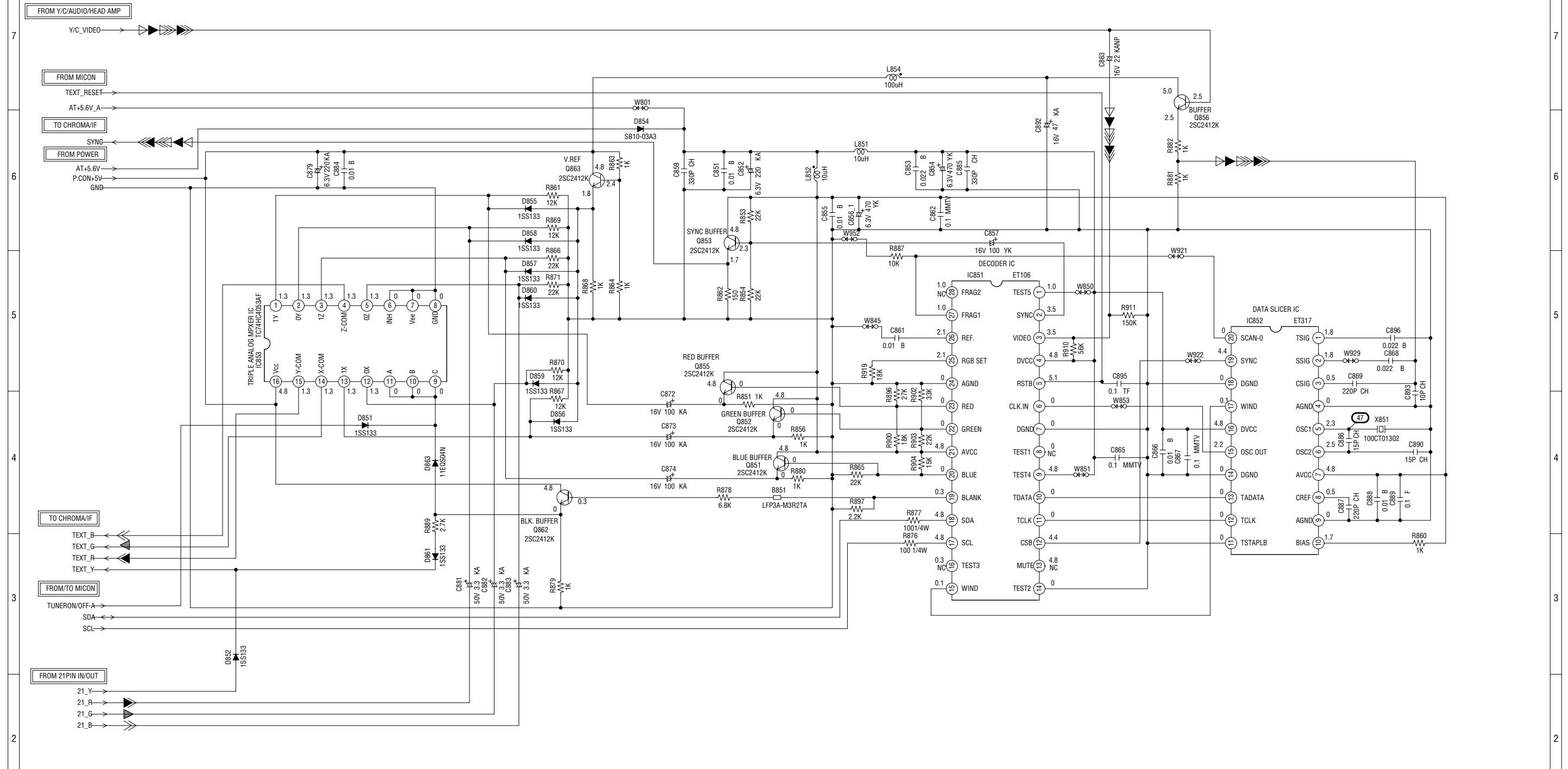
CAUTION: SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY .

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

AUDIO SIGNAL (REC)
 AUDIO SIGNAL (PB)
 TUNER AUDIO SIGNAL

PCB010
VMX193

T'TEXT SCHEMATIC DIAGRAM (SYSCON PCB)



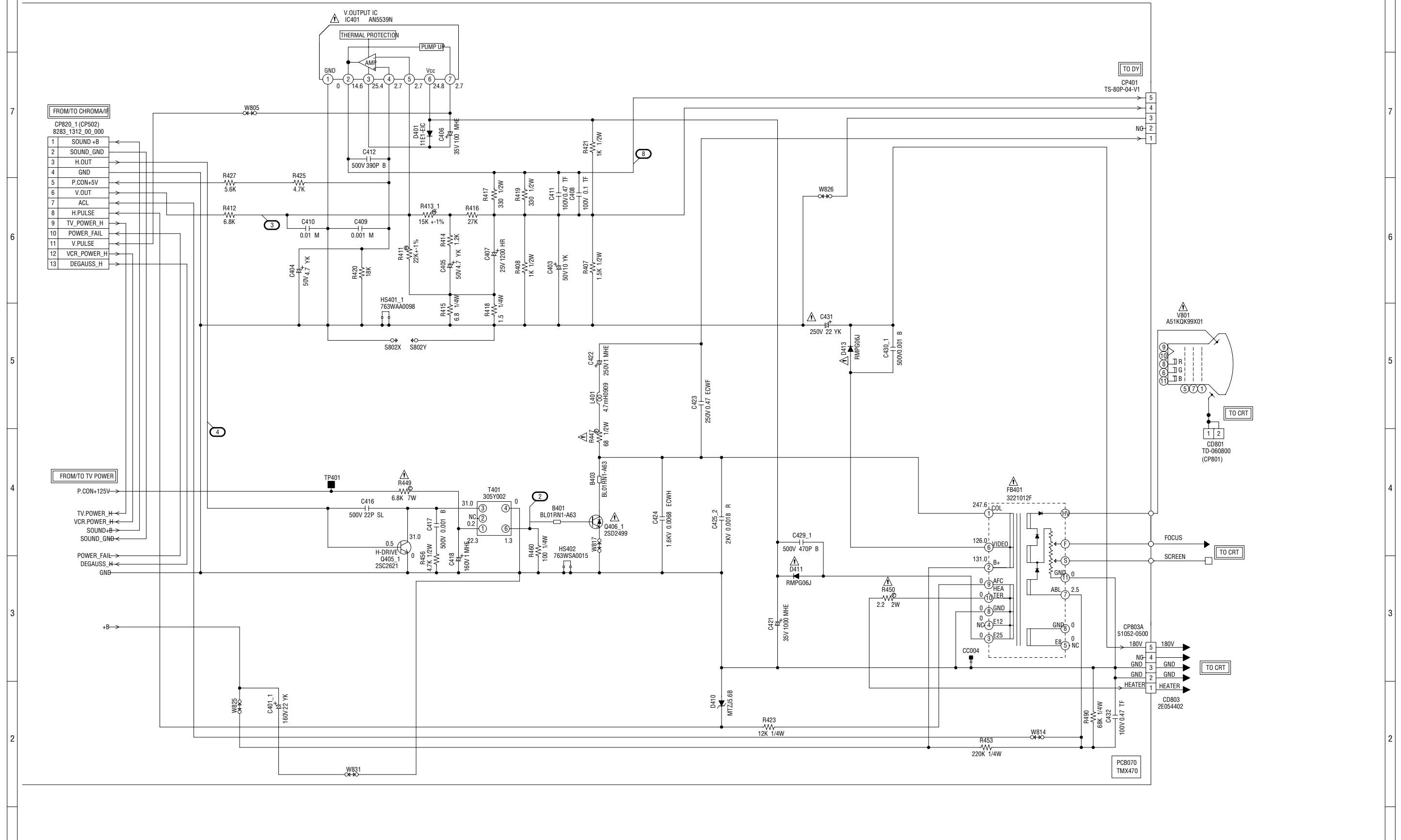
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

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

- ▶ R.SIGNAL
- ▲ G.SIGNAL
- ◀ B.SIGNAL
- ▶ PLAYBACK LUMINANCE SIGNAL
- ◀ PLAYBACK COLOR SIGNAL
- ▶ RECORD LUMINANCE SIGNAL
- ◀ RECORD COLOR SIGNAL

PCB010
VMX193

DEFLECTION SCHEMATIC DIAGRAM (MAIN PCB)



FROM/TO CHROMA

| | |
|----|-------------|
| 1 | SOUND +B |
| 2 | SOUND_GND |
| 3 | H.OUT |
| 4 | GND |
| 5 | P.CON+5V |
| 6 | V.OUT |
| 7 | ACL |
| 8 | H.PULSE |
| 9 | TV_POWER_H |
| 10 | POWER_FAIL |
| 11 | V.PULSE |
| 12 | VCR_POWER_H |
| 13 | DEGAUSS_H |

FROM/TO TV POWER

| |
|-------------|
| P.CON+125V |
| TV_POWER_H |
| VCR_POWER_H |
| SOUND+B |
| SOUND_GND |
| POWER_FAIL |
| DEGAUSS_H |
| GND |

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.

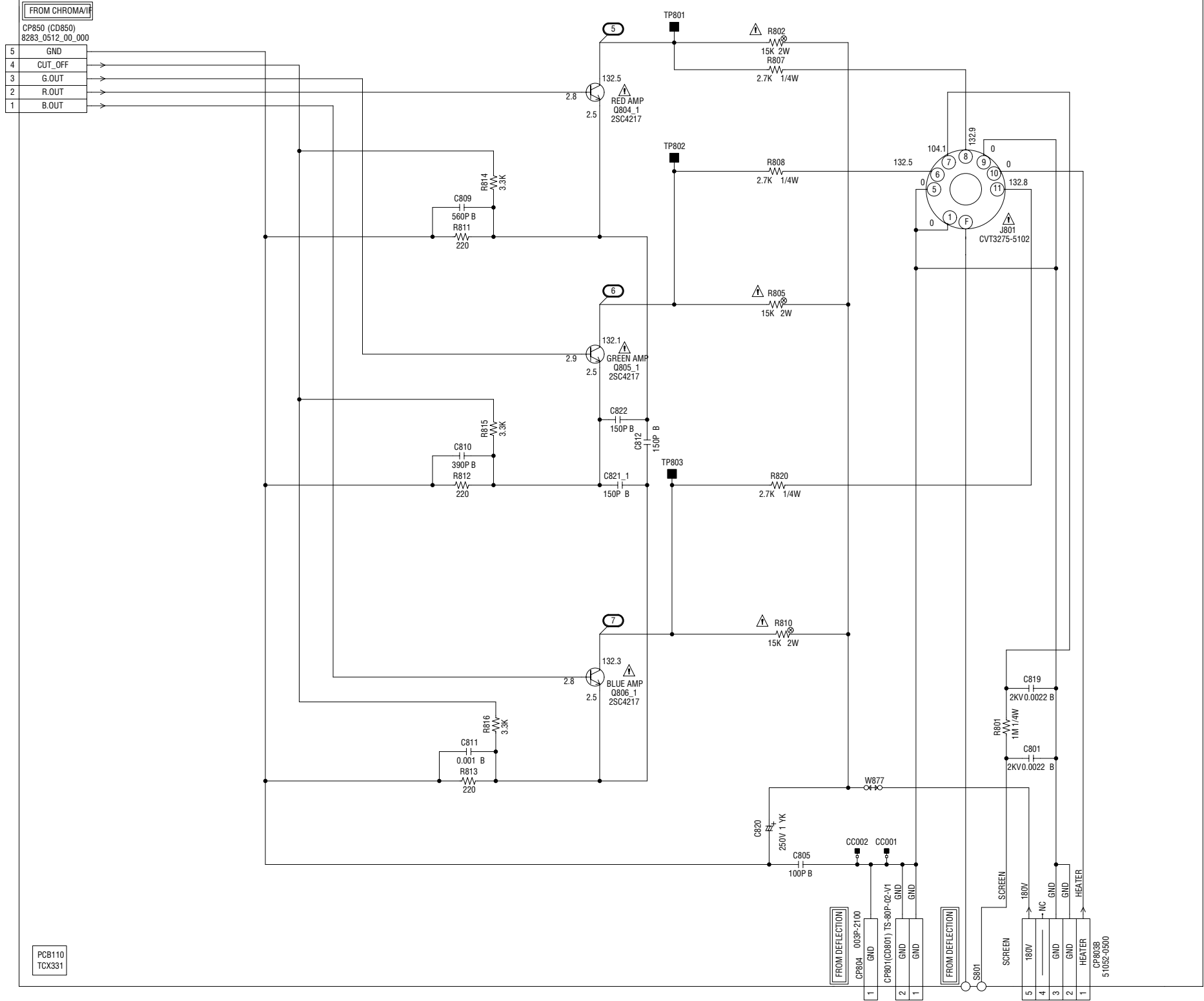
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

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

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.

CRT SCHEMATIC DIAGRAM (CRT PCB)



| FROM CHROMA | |
|-------------|---------|
| 5 | GND |
| 4 | CUT_OFF |
| 3 | G.OUT |
| 2 | R.OUT |
| 1 | B.OUT |

PC8110
TCX331

| ACCESSORY | |
|---------------|------------|
| BT001 | TM101 |
| R03(AB)E_20_T | SBJU00010A |
| BT002 | |
| R03(AB)E_20_T | |

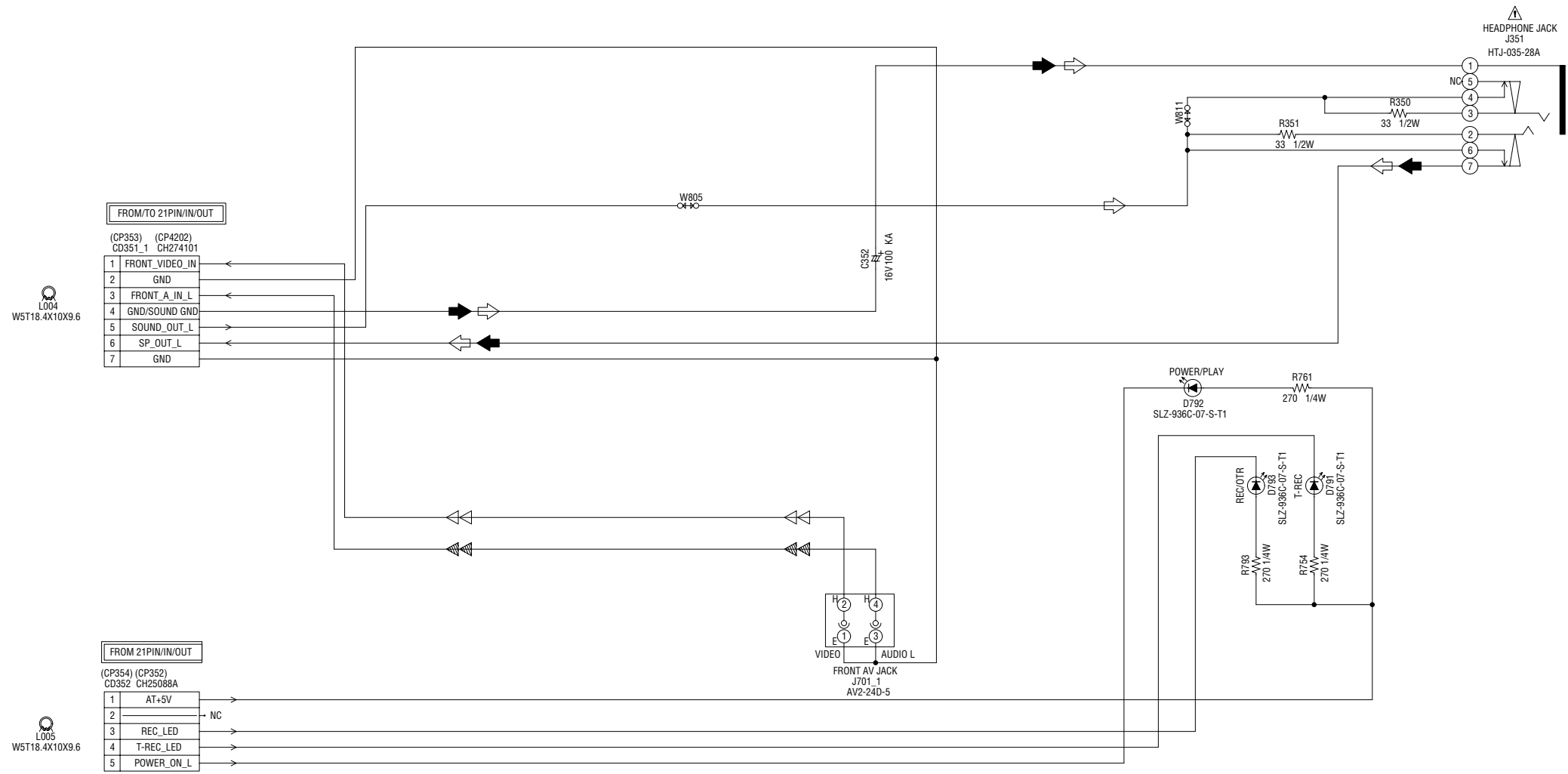
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

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.

JACK/LED SCHEMATIC DIAGRAM (OPERATION 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.

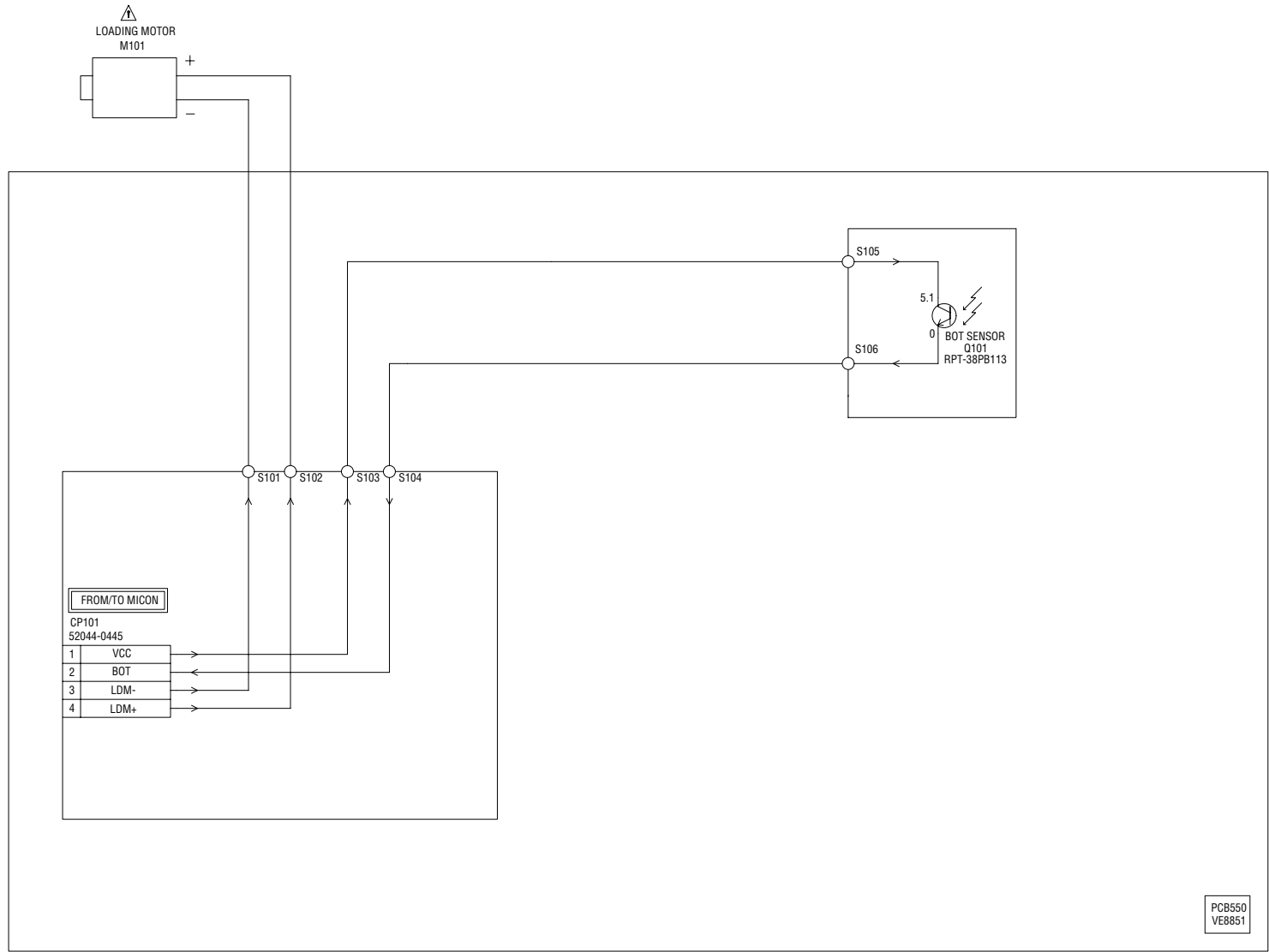
CAUTION: SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

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

- AUDIO SIGNAL(REC)
- AUDIO SIGNAL(PB)
- TUNER VIDEO SIGNAL
- TUNER AUDIO SIGNAL

PCB030
TE9A16

DECK SCHEMATIC DIAGRAM (DECK PCB)



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

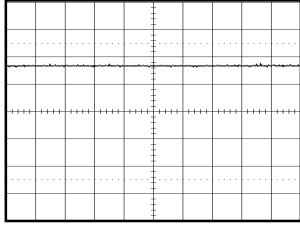
ATTENTION: LES PIÈCES REPARÉES PAR UN ÉTANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIÈCES.

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.

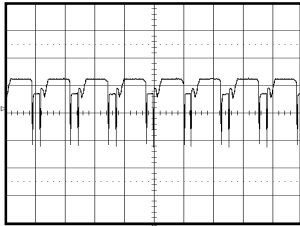
WAVEFORMS

TV POWER

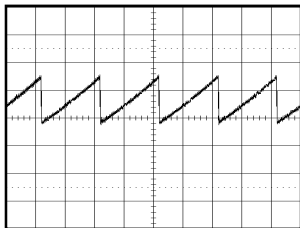


① 5V 0.1ms/div

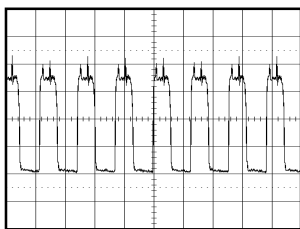
DEFLECTION



② 5V 50µs/div

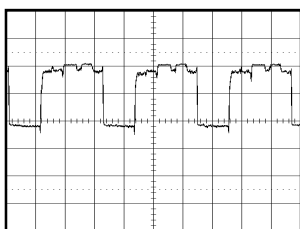


③ 0.5V 10ms/div

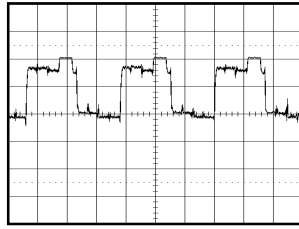


④ 200mV 50µs/div

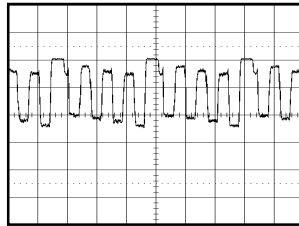
CRT



⑤ 2V 20µs/div

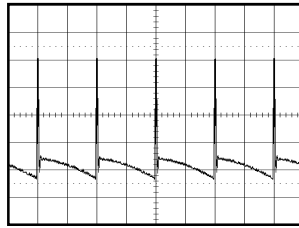


⑥ 20V 20µs/div



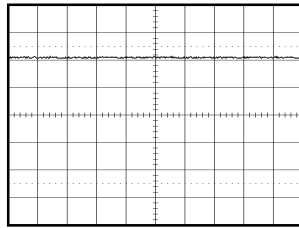
⑦ 20V 20µs/div

DEFLECTION

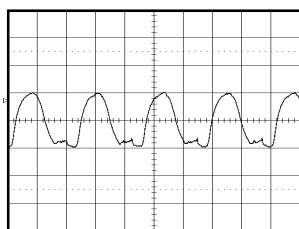


⑧ 10V 10ms/div

TV POWER

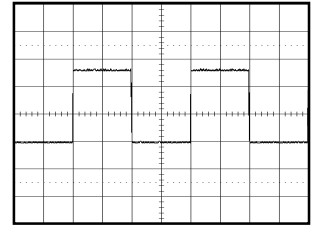


⑨ 20V 10ms/div

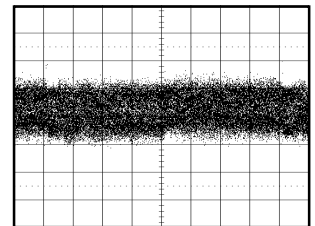


⑩ 2V 5µs/div

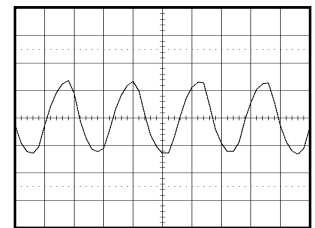
Y/C/AUDIO/HEAD AMP



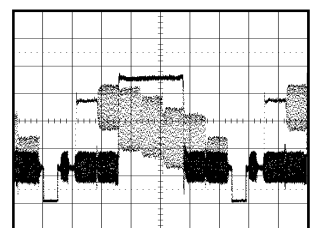
⑪ PB
2V 10ms/div



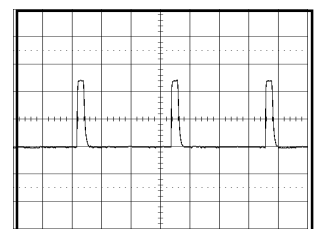
⑫ PB
10mV 5ms/div



⑬ POWER ON
200mV 50ns/div



⑭ POWER ON
0.5V 10µs/div

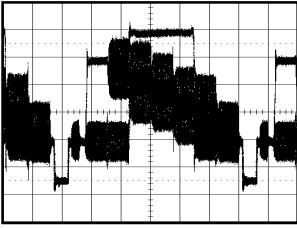


⑮ POWER ON
2V 20µs/div

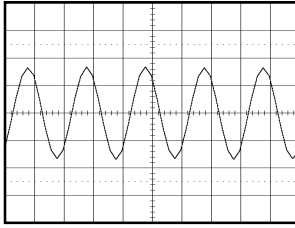
NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

WAVEFORMS

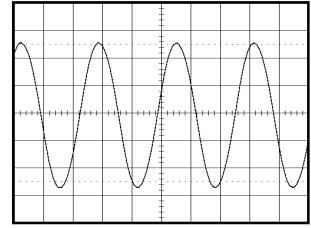
MICON



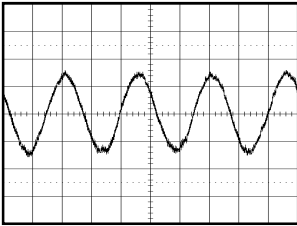
①⑥ POWER ON
200mV 10 μ s/div



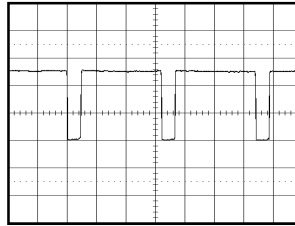
②① POWER ON
1V 50ns/div



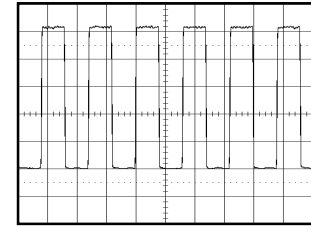
②⑥ PB
50mV 0.5ms/div



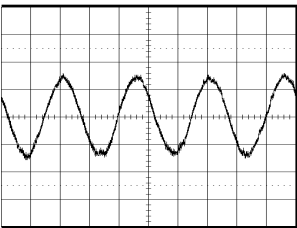
①⑦ POWER ON
50mV 1ms/div



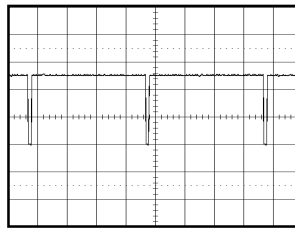
②② POWER ON
1V 20 μ s/div



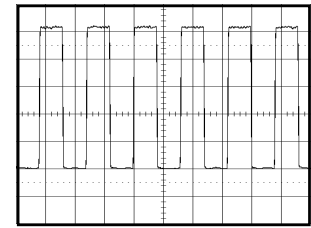
②⑦ PB
1V 0.5 μ s/div



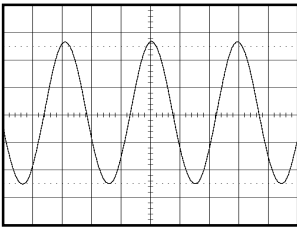
①⑧ POWER ON
50mV 1ms/div



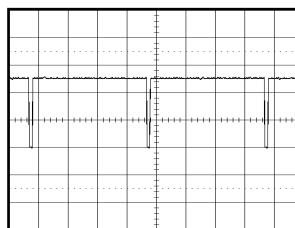
②③ POWER ON
2V 20 μ s/div



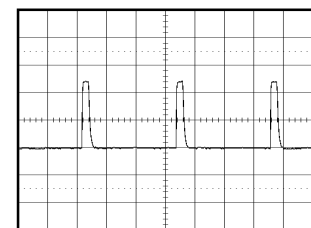
②⑧ PB
1V 0.5 μ s/div



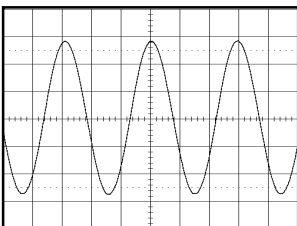
①⑨ REC
10V 5 μ s/div



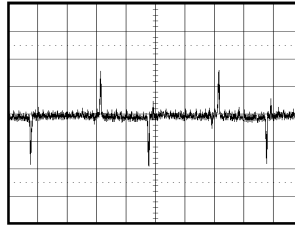
②④ POWER ON
2V 5ms/div



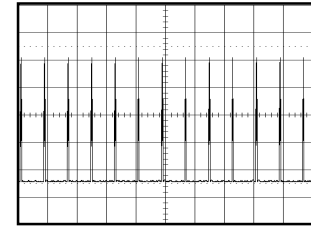
②⑨ PB
2V 20 μ s/div



②⑩ REC
10V 5 μ s/div



②⑤ PB
50mV 10ms/div

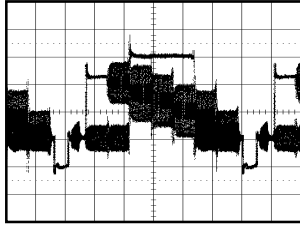


③⑩ PB
1V 50ms/div

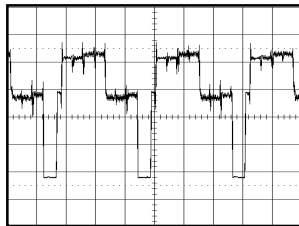
NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

WAVEFORMS

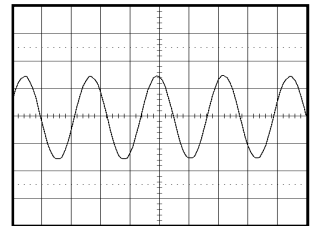
21PIN/IN/OUT



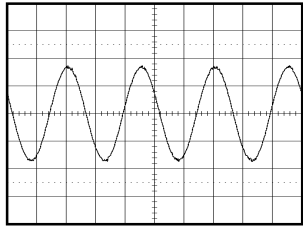
③① POWER ON
0.5V 10 μ s/div



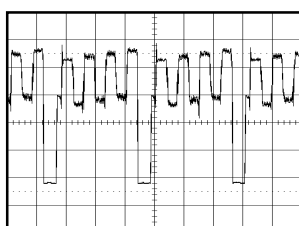
③⑥ POWER ON
0.5V 20 μ s/div



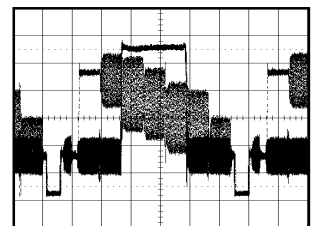
④① POWER ON
200mV 0.1 μ s/div



③② POWER ON
20mV 1ms/div

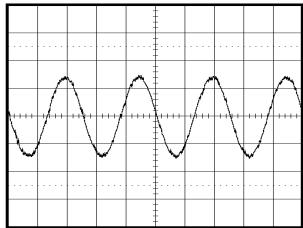


③⑦ POWER ON
0.5V 20 μ s/div

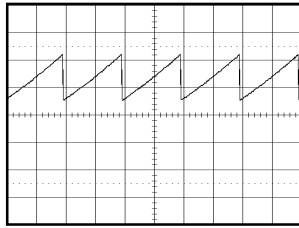


④② POWER ON
200mV 10 μ s/div

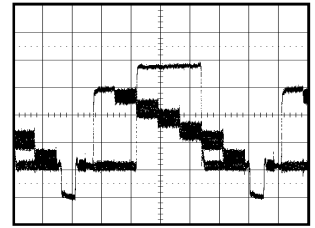
CHROMA/IF



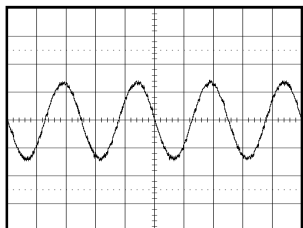
③③ POWER ON
5mV 1ms/div



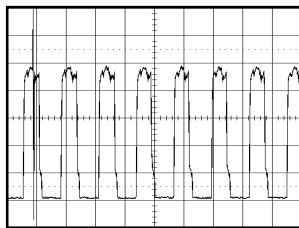
③⑧ POWER ON
0.5V 10ms/div



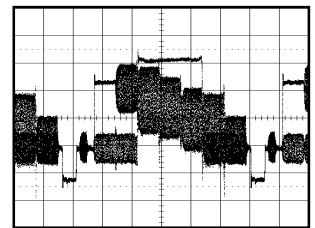
④③ POWER ON
10mV 10 μ s/div



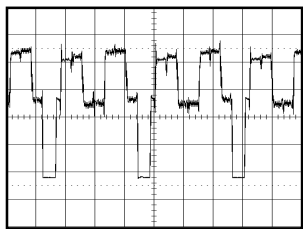
③④ POWER ON
5mV 1ms/div



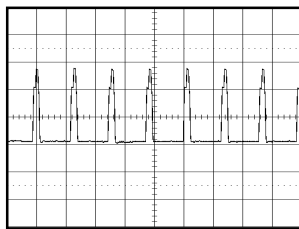
③⑨ POWER ON
200mV 50 μ s/div



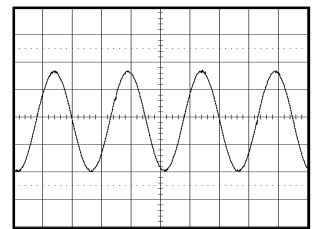
④④ POWER ON
0.5V 10 μ s/div



③⑤ POWER ON
0.5V 20 μ s/div



④⑩ POWER ON
2V 50 μ s/div

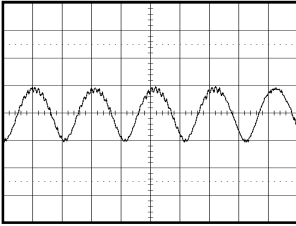


④⑤ POWER ON
200mV 1ms/div

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

WAVEFORMS

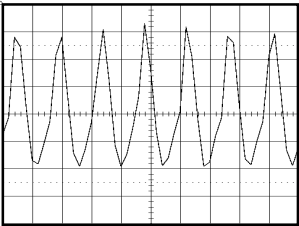
SOUND AMP



④⑥ REC

0.5V 0.5ms/div

T' TEXT

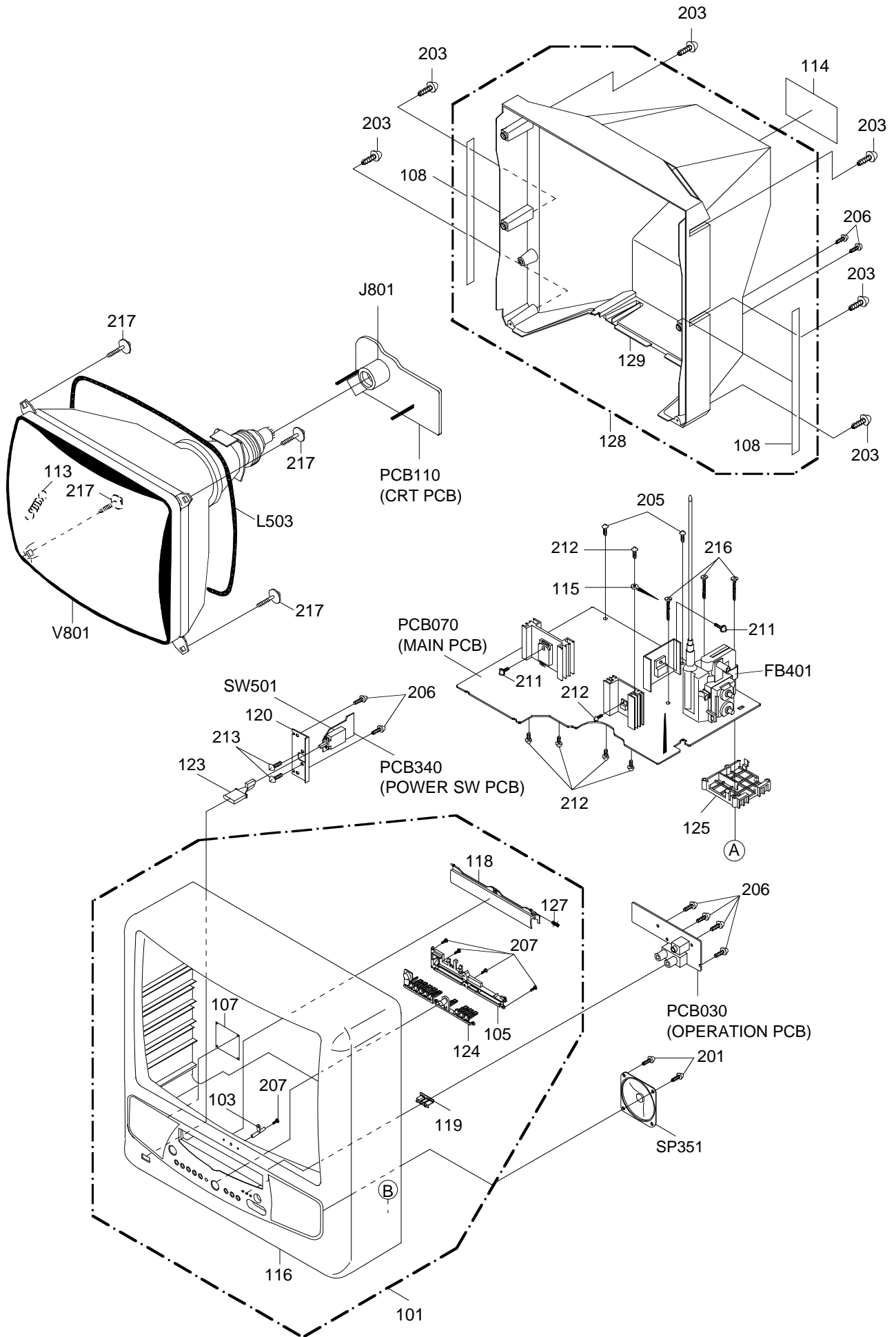


④⑦ POWER ON

200mV 50ns/div

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

MECHANICAL EXPLODED VIEW



MECHANICAL EXPLODED VIEW

