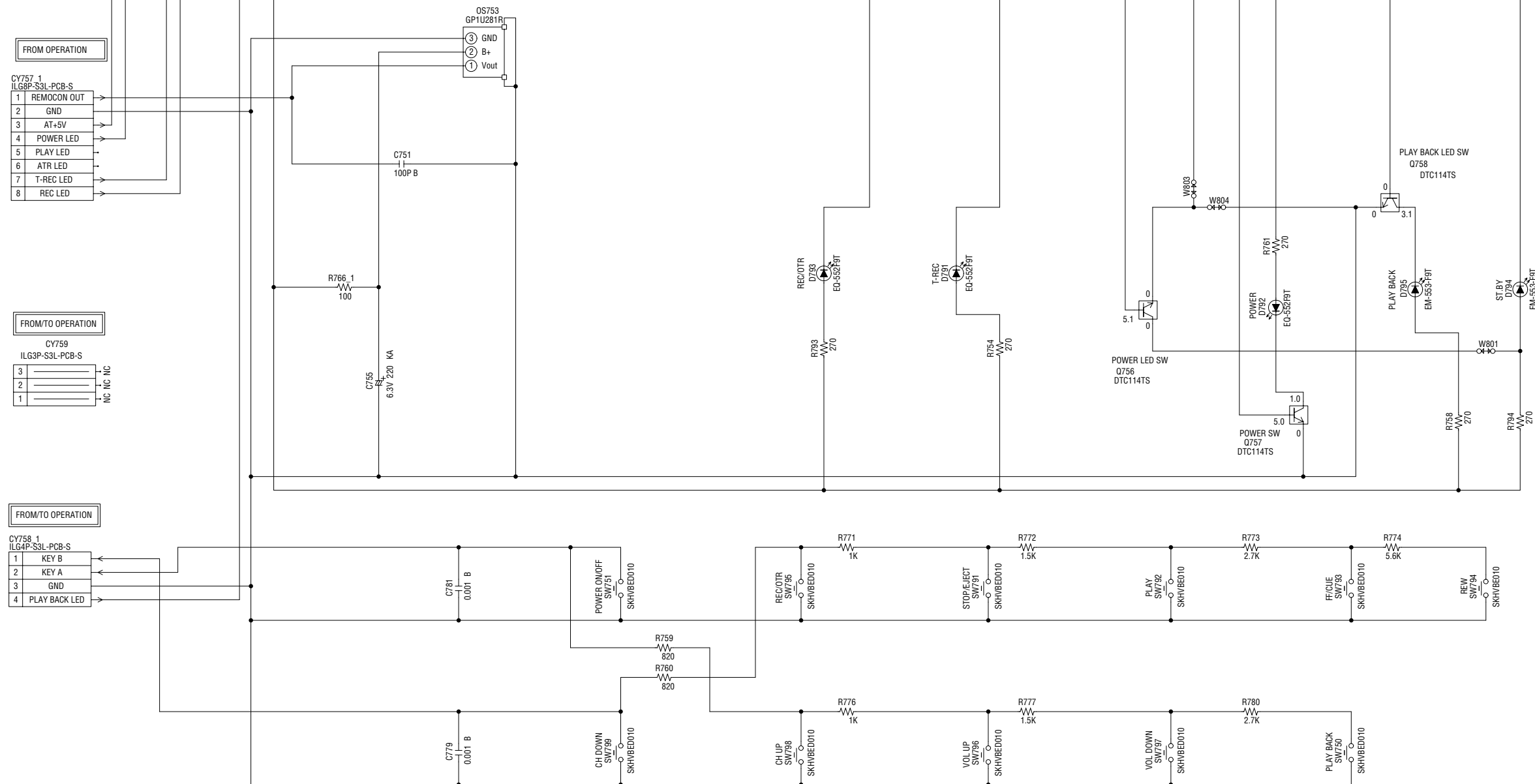


AIWA VX-G142 OPERATION 1 SCHEMATIC DIAGRAM

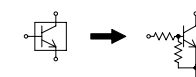
(OPERATION 1 PCB)



PCB030
TE6895

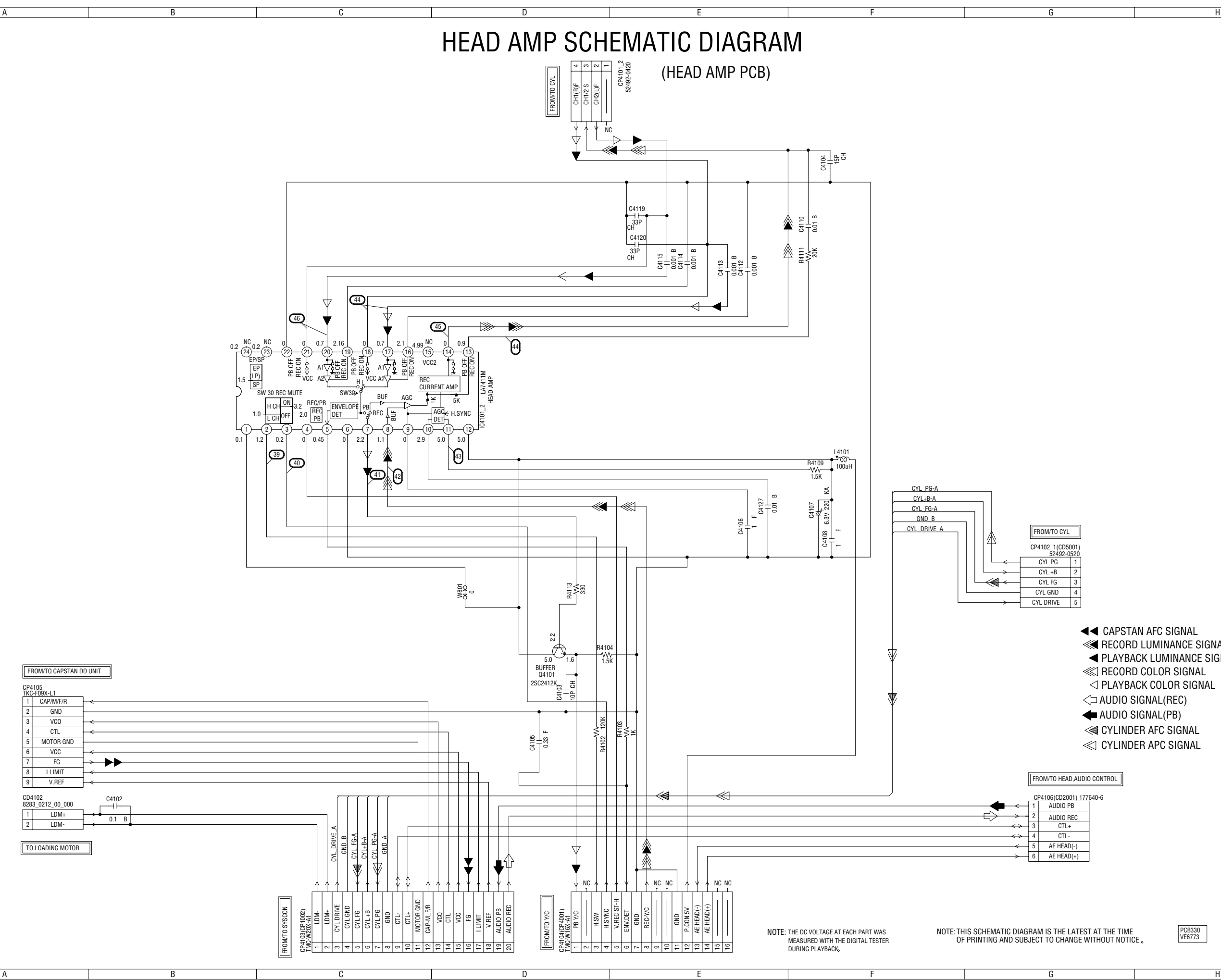
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

CAUTION: DIGITAL TRANSISTOR



HEAD AMP SCHEMATIC DIAGRAM

(HEAD AMP PCB)



- ◀ CAPSTAN AFC SIGNAL
- ◀ RECORD LUMINANCE SIGNAL
- ◀ PLAYBACK LUMINANCE SIGNAL
- ◀ RECORD COLOR SIGNAL
- ◀ PLAYBACK COLOR SIGNAL
- ◀ AUDIO SIGNAL (REC)
- ◀ AUDIO SIGNAL (PB)
- ◀ CYLINDER AFC SIGNAL
- ◀ CYLINDER APC SIGNAL

FROM/TO CAPSTAN DD UNIT

CP4105	TKC-F08X-L1
1	CAP/M/F/R
2	GND
3	VCO
4	CTL
5	MOTOR GND
6	VCC
7	FG
8	I LIMIT
9	V.REF

TO LOADING MOTOR

CD4102	8283_0212_00_000
1	LDM+
2	LDM-

FROM/TO SYSTEM

CP4106(CP4001)	TMC-W15K-A1
1	LDM+
2	LDM-
3	CYL DRIVE
4	CYL DRIVE
5	CYL FG
6	CYL FG
7	CYL PG
8	CYL PG
9	GND
10	CTL+
11	CTL+
12	MOTOR GND
13	CAP-M_F/R
14	VCO
15	VCC
16	VREF
17	I LIMIT
18	V.REF
19	AUDIO PB
20	AUDIO REC

FROM/TO CYC

CP4101_2	52492-0420
1	PB V/C
2	H.S.W
3	H.S.W
4	H.S.W
5	V REC ST-H
6	ENV DET
7	GND
8	REC-Y/C
9	GND
10	GND
11	P.CON SV
12	AE HEAD(-)
13	AE HEAD(+)
14	AE HEAD(+)
15	NC
16	NC

FROM/TO CYL

CP4102_1(CD5001)	52492-0520
1	CYL PG
2	CYL +B
3	CYL FG
4	CYL GND
5	CYL DRIVE

FROM/TO HEAD AUDIO CONTROL

CP4106(CD2001)	177640-6
1	AUDIO PB
2	AUDIO REC
3	CTL+
4	CTL-
5	AE HEAD(-)
6	AE HEAD(+)

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.

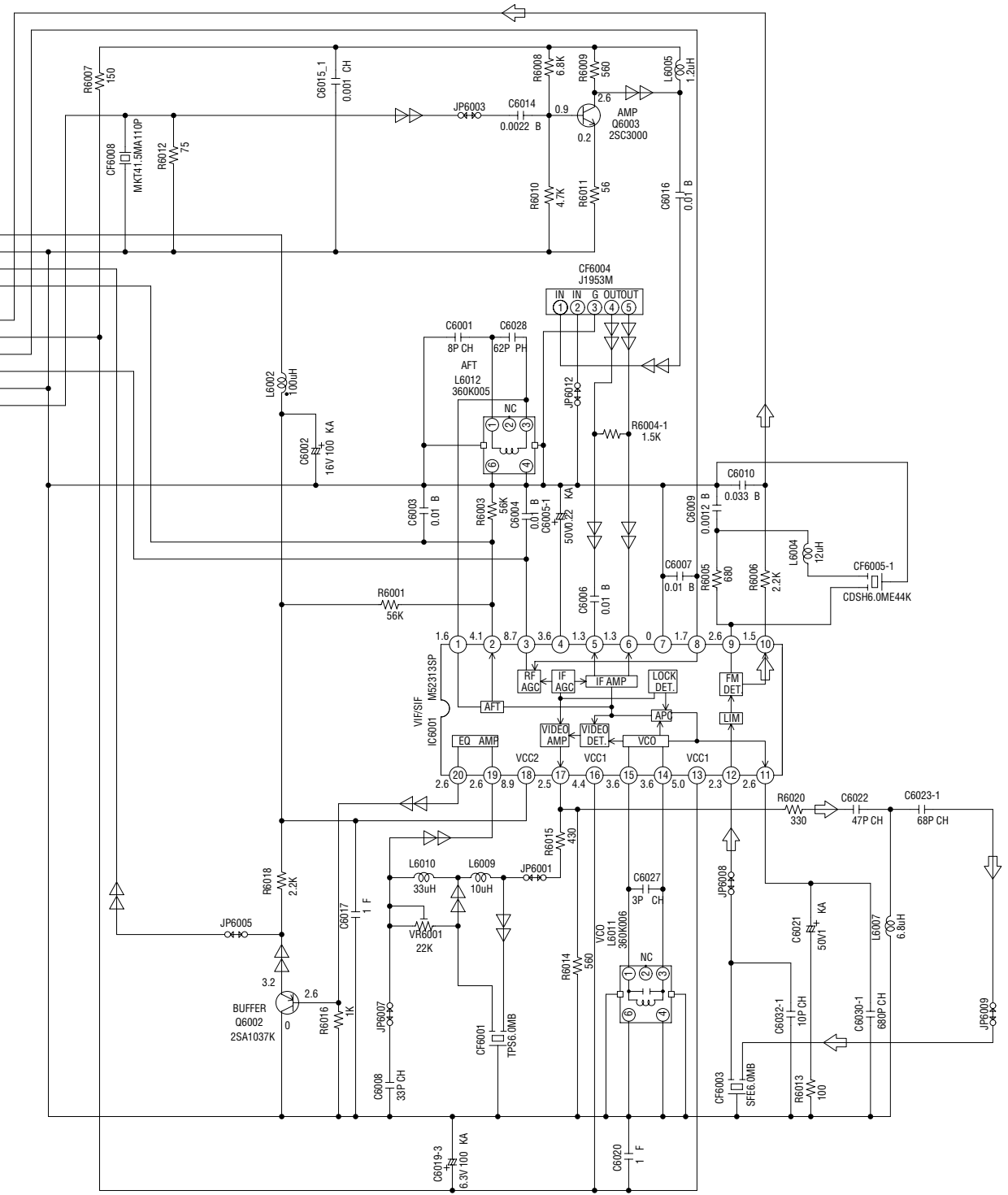
PCB330
VE6773

IF SCHEMATIC DIAGRAM

(IF PCB)

FROM/TO TUNER/AUDIO

CP6001 6035B-12Z002-T	
1	P.CON 9V (AT9V)
2	GND
3	TU.VIDEO
4	AFT S.CURVE
5	AFT-DEFFET
6	TU.AUDIO
7	5V
8	AGC CONTROL
9	AGC
10	GND
11	IF
12	SIF SW



TUNER VIDEO SIGNAL
 AUDIO SIGNAL (REC)

PCB350
VE4666

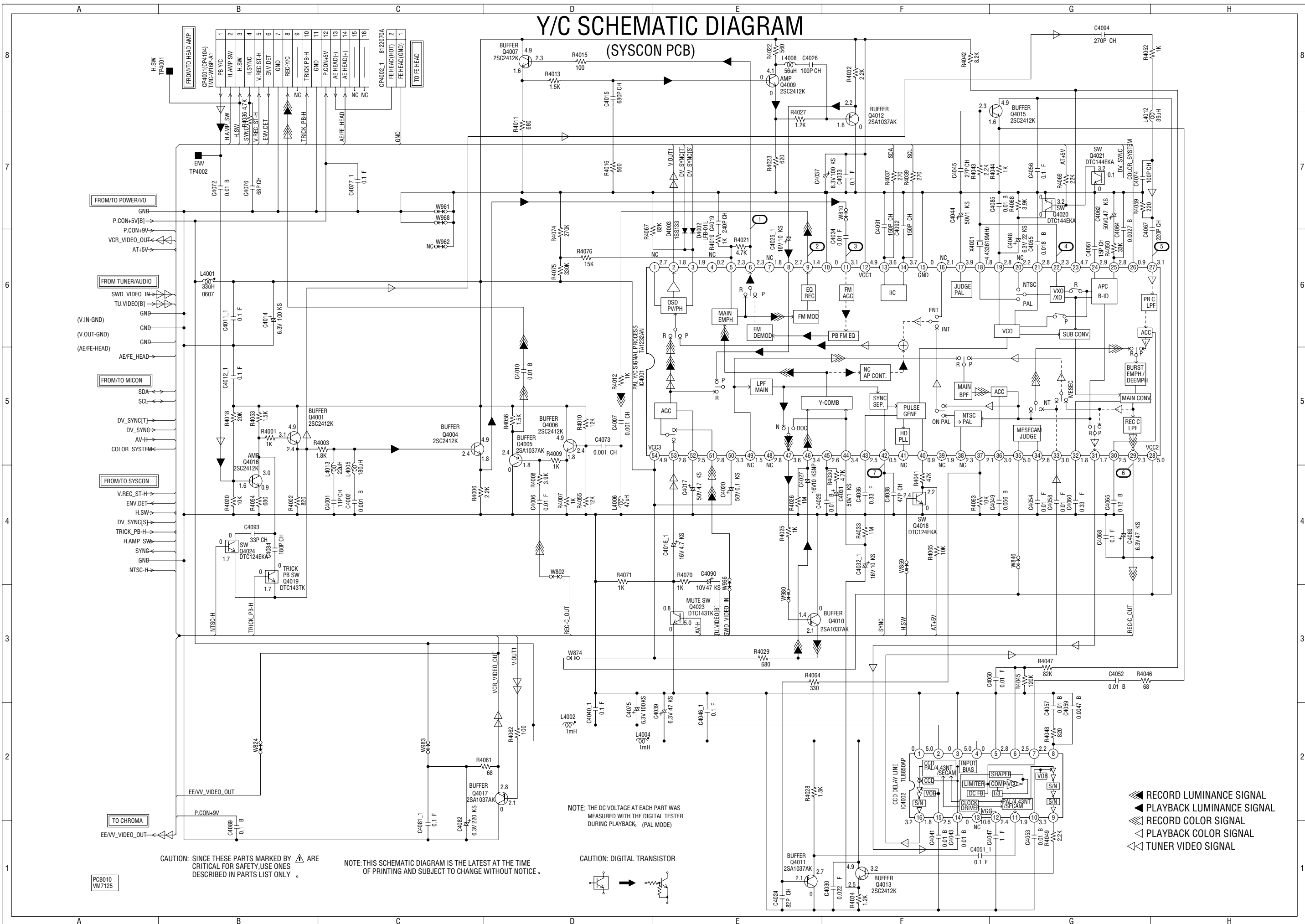
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

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.

Y/C SCHEMATIC DIAGRAM

(SYSCON PCB)

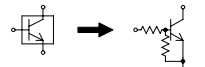


NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK. (PAL MODE)

CAUTION: DIGITAL TRANSISTOR

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

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

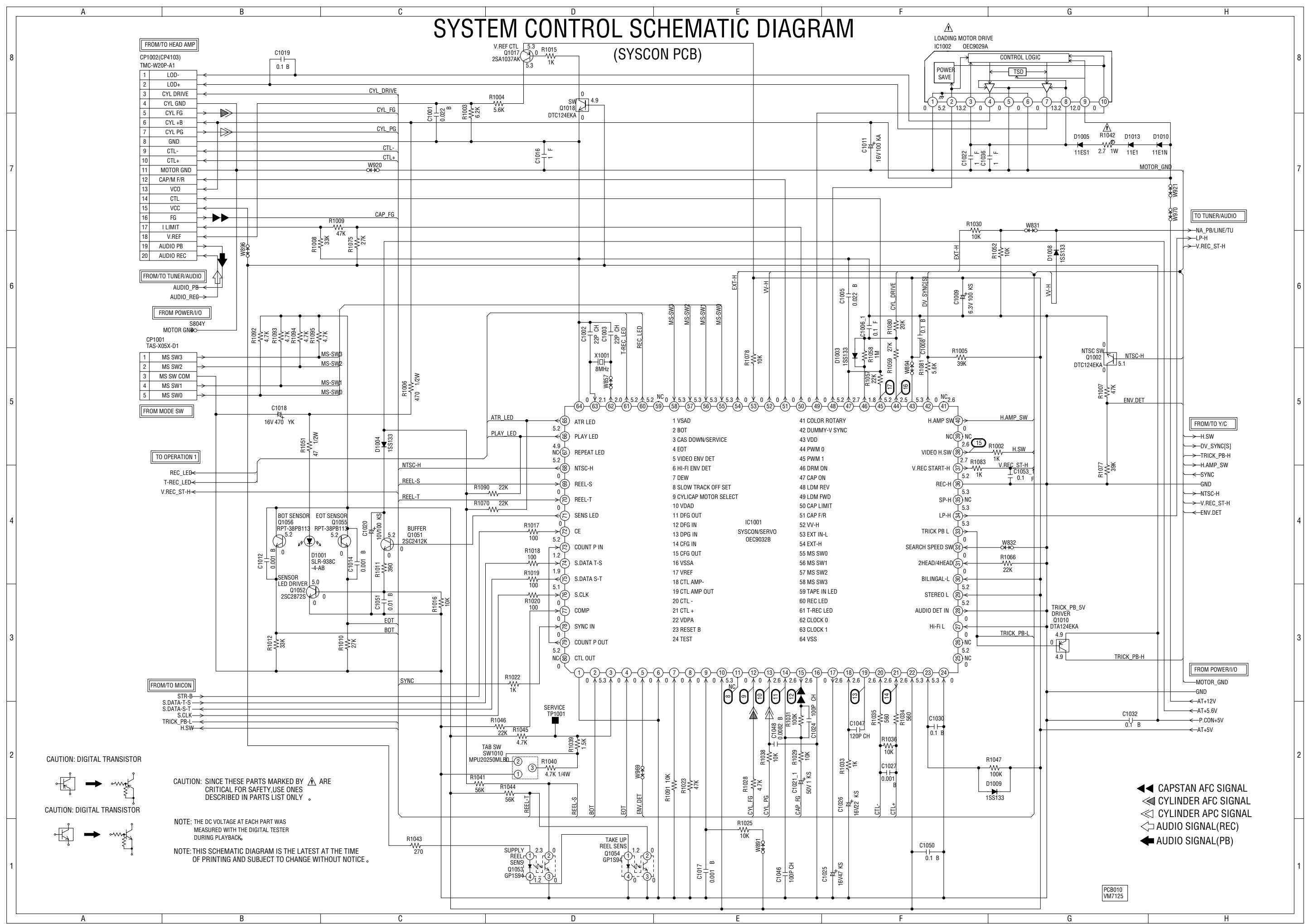


- RECORD LUMINANCE SIGNAL
- PLAYBACK LUMINANCE SIGNAL
- RECORD COLOR SIGNAL
- PLAYBACK COLOR SIGNAL
- TUNER VIDEO SIGNAL

PCB010
VM7125

SYSTEM CONTROL SCHEMATIC DIAGRAM

(SYSCON PCB)



CAUTION: DIGITAL TRANSISTOR



CAUTION: DIGITAL TRANSISTOR



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

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

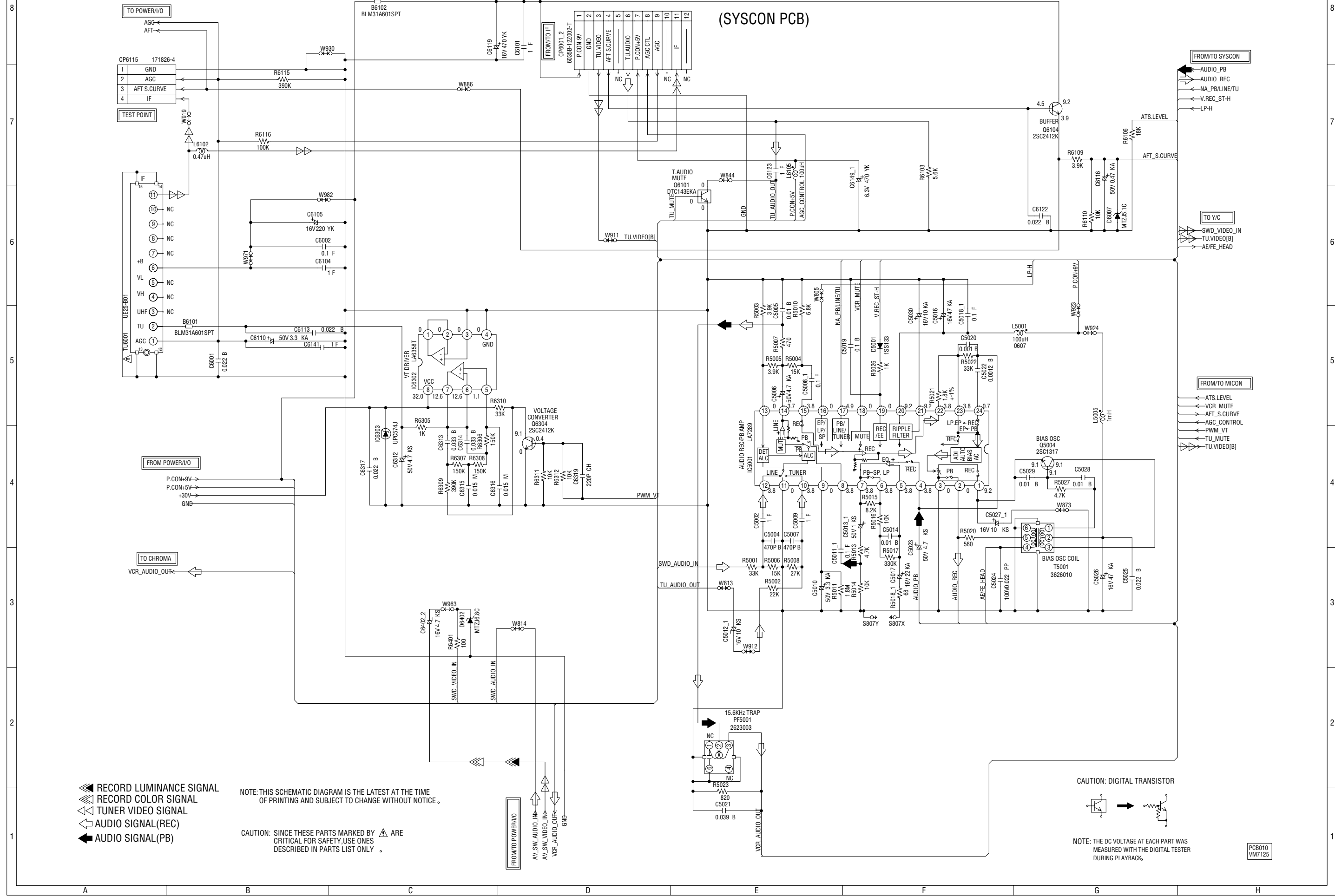
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

- ◀ CAPSTAN AFC SIGNAL
- ◀ CYLINDER AFC SIGNAL
- ◀ CYLINDER APC SIGNAL
- ◀ AUDIO SIGNAL(REC)
- ◀ AUDIO SIGNAL(PB)

PCB010
VM7125

TUNER/AUDIO SCHEMATIC DIAGRAM

(SYSCON PCB)



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

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.

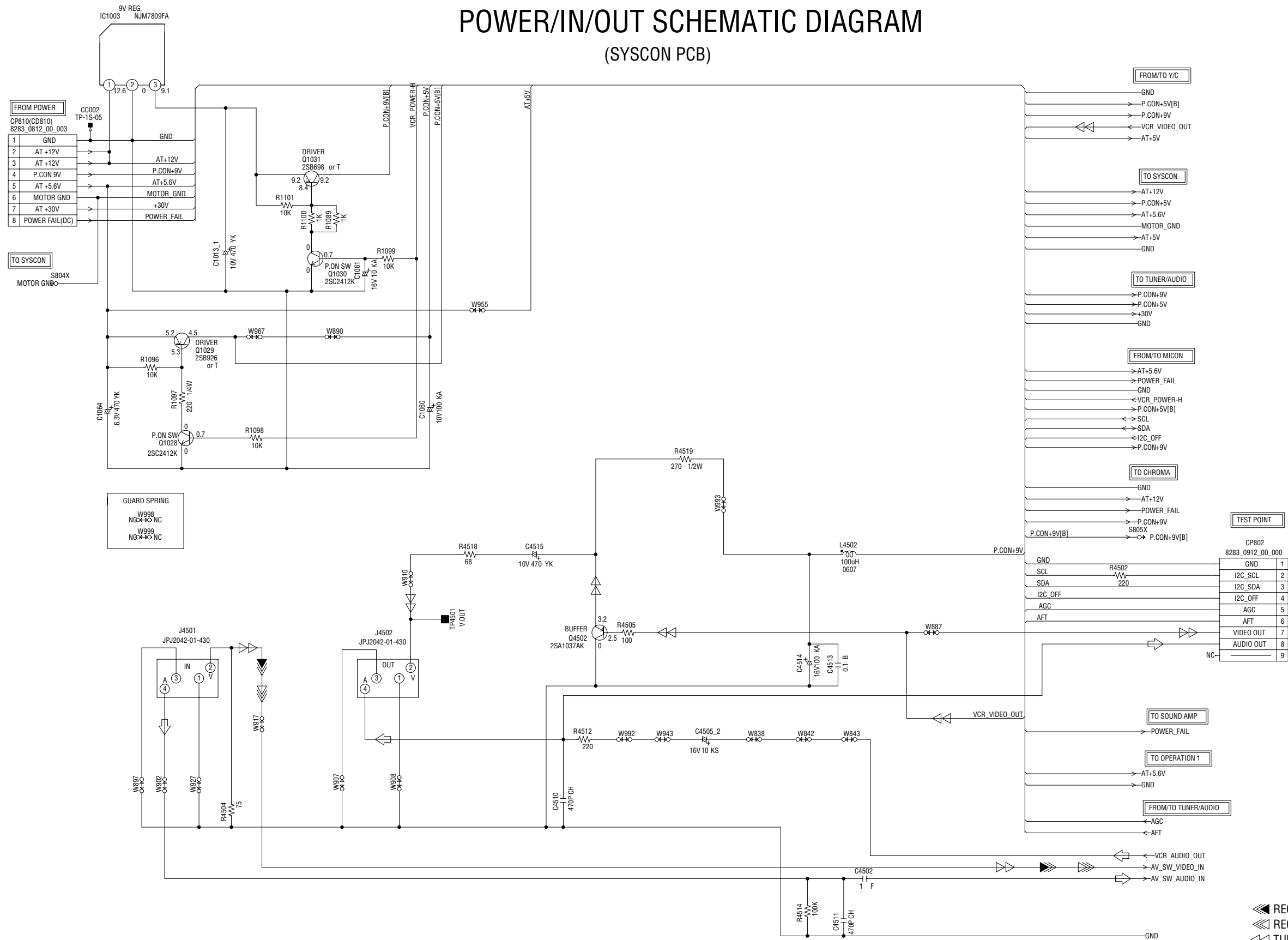
CAUTION: DIGITAL TRANSISTOR



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

PCB010
VM7125

POWER/IN/OUT SCHEMATIC DIAGRAM (SYSCON PCB)



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

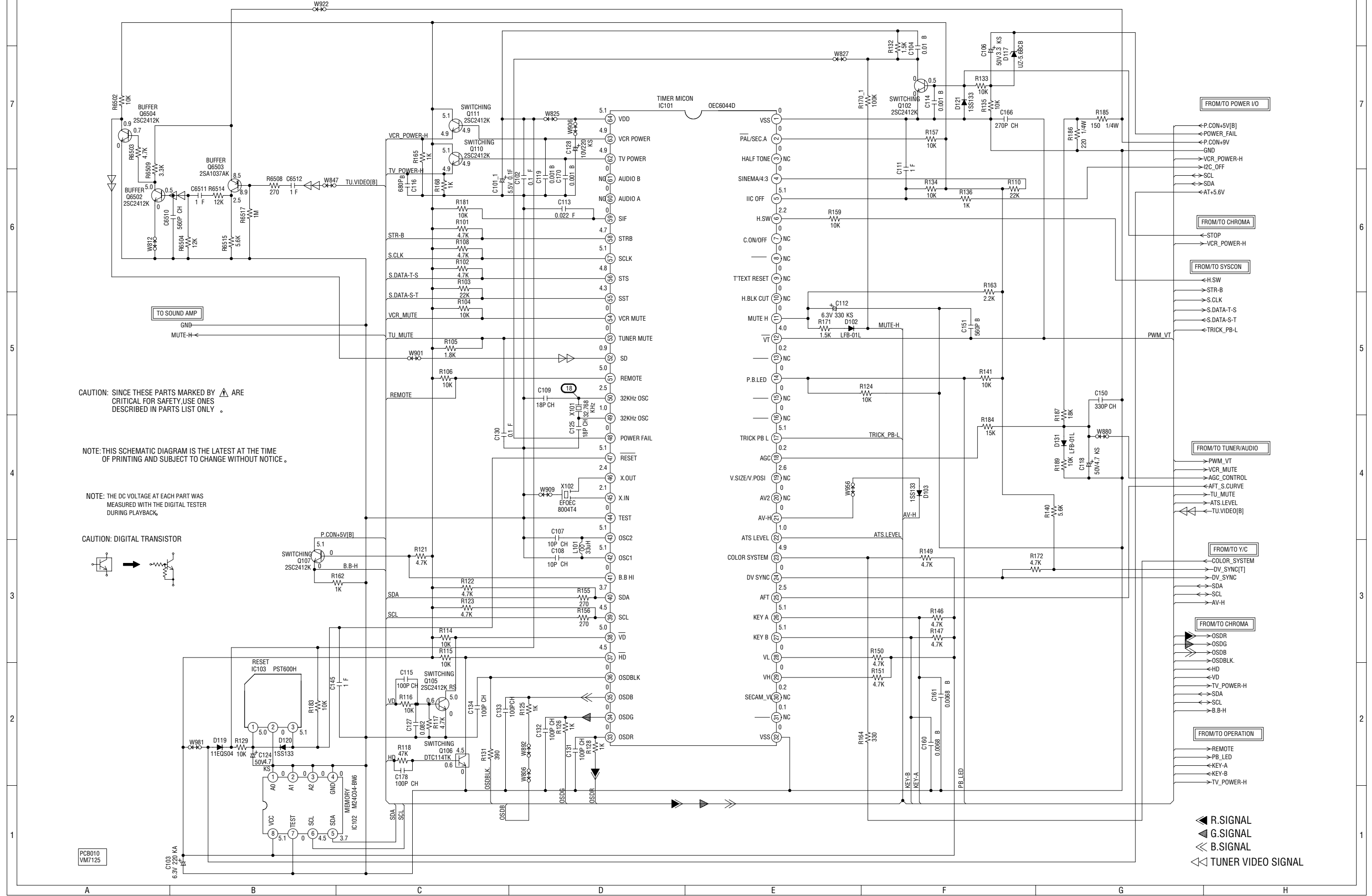
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

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

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

MICON SCHEMATIC DIAGRAM

(SYSCON PCB)

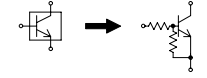


CAUTION: SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

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.

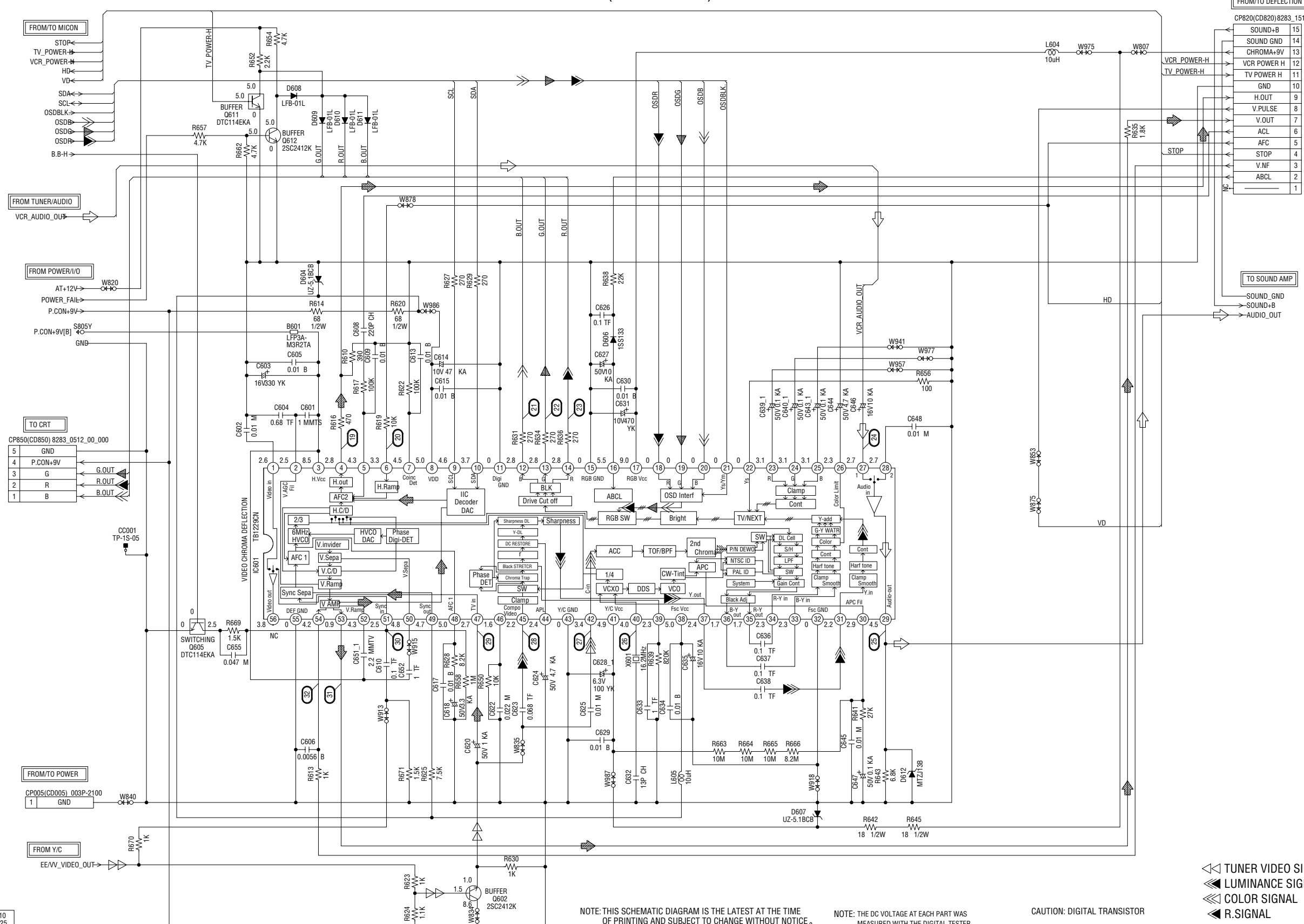
CAUTION: DIGITAL TRANSISTOR



- R.SIGNAL
- G.SIGNAL
- B.SIGNAL
- TUNER VIDEO SIGNAL

PCB010
VM7125

CHROMA SCHEMATIC DIAGRAM (SYSCON PCB)



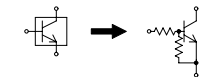
FROM/TO DEFLECTION	
CP820/CD820/8283_1512_00_000	
SOUND+B	15
SOUND GND	14
CHROMA+9V	13
VCR POWER H	12
TV POWER H	11
GND	10
H.OUT	9
V.PULSE	8
V.OUT	7
ACL	6
AFC	5
STOP	4
V.NF	3
ABCL	2
NC	1

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

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

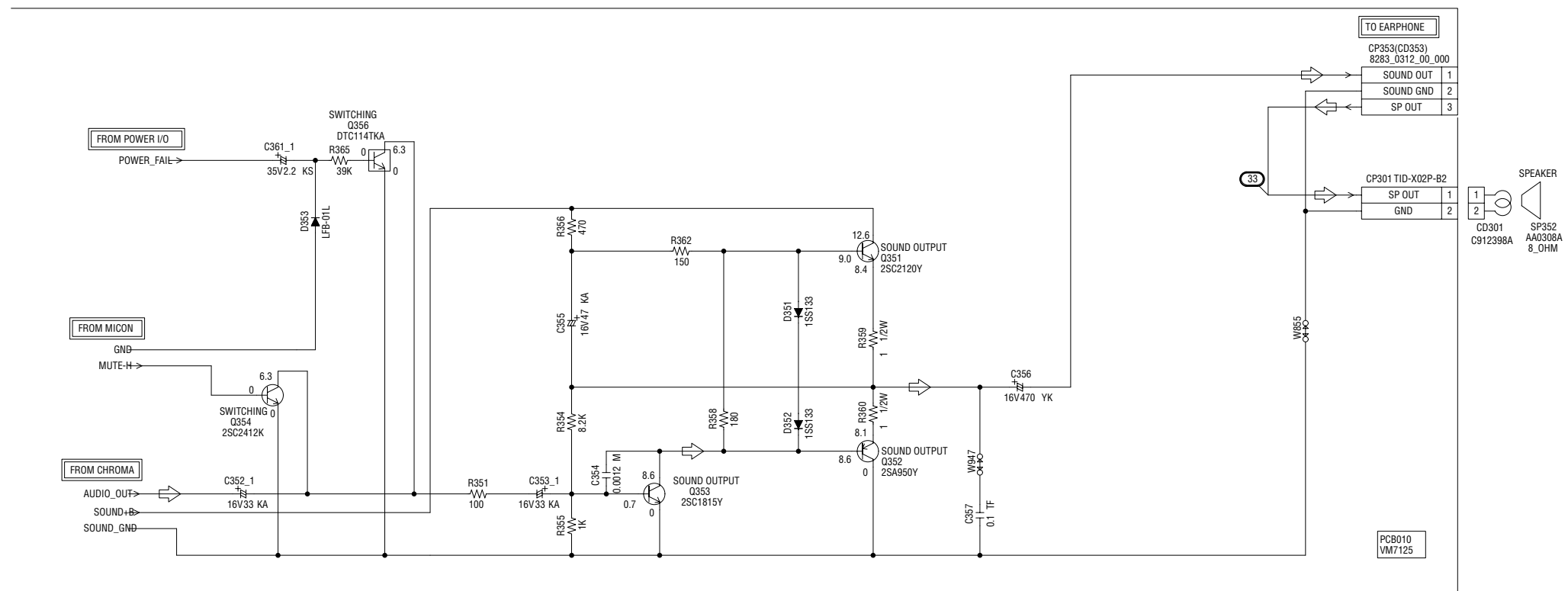
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

CAUTION: DIGITAL TRANSISTOR



SOUND AMP SCHEMATIC DIAGRAM

(SYSCON PCB)

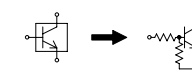


CAUTION: SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

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.

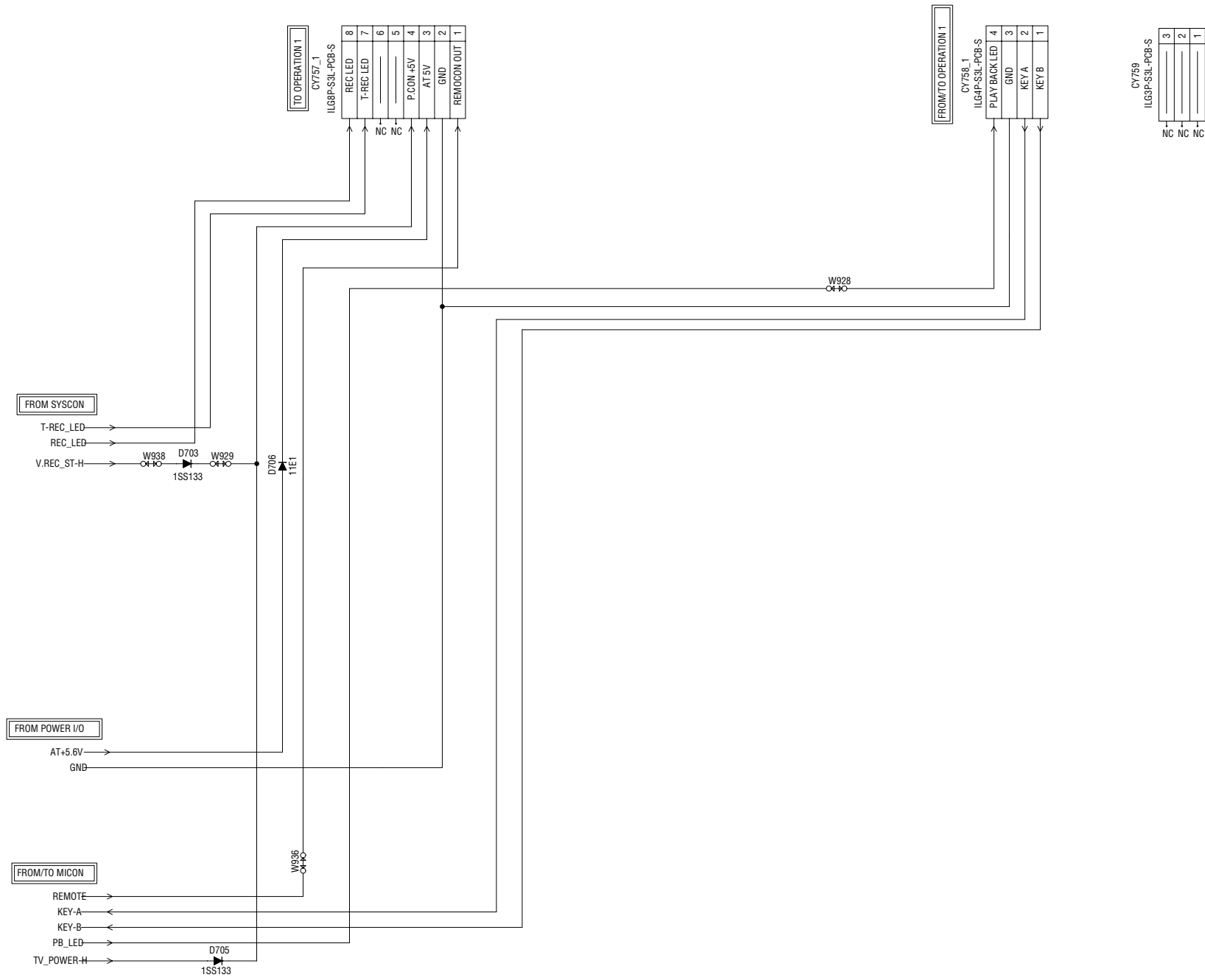
CAUTION: DIGITAL TRANSISTOR



AUDIO SIGNAL

OPERATION SCHEMATIC DIAGRAM

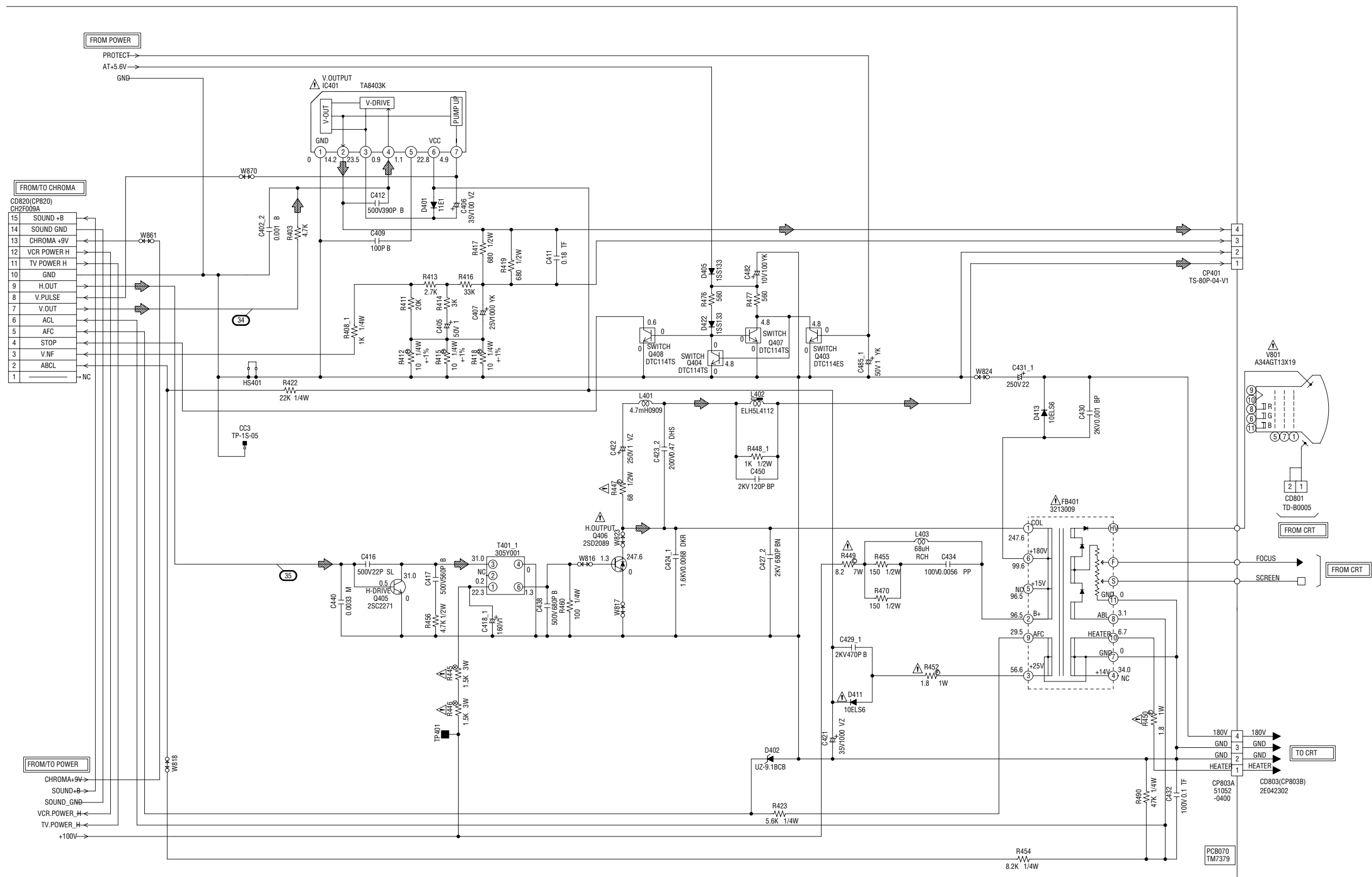
(SYSCON PCB)



PCB010
VM7125

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

DEFLECTION SCHEMATIC DIAGRAM (MAIN PCB)



FROM/TO CHROMA

15	SOUND +B
14	SOUND GND
13	CHROMA +9V
12	VCR POWER H
11	TV POWER H
10	GND
9	H.OUT
8	V.PULSE
7	V.OUT
6	ACL
5	AFC
4	STOP
3	V.NF
2	ABCL
1	NC

FROM/TO POWER

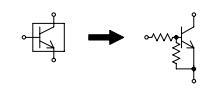
CHROMA+9V
SOUND+B
SOUND_GND
VCR_POWER_H
TV_POWER_H
+100V

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.

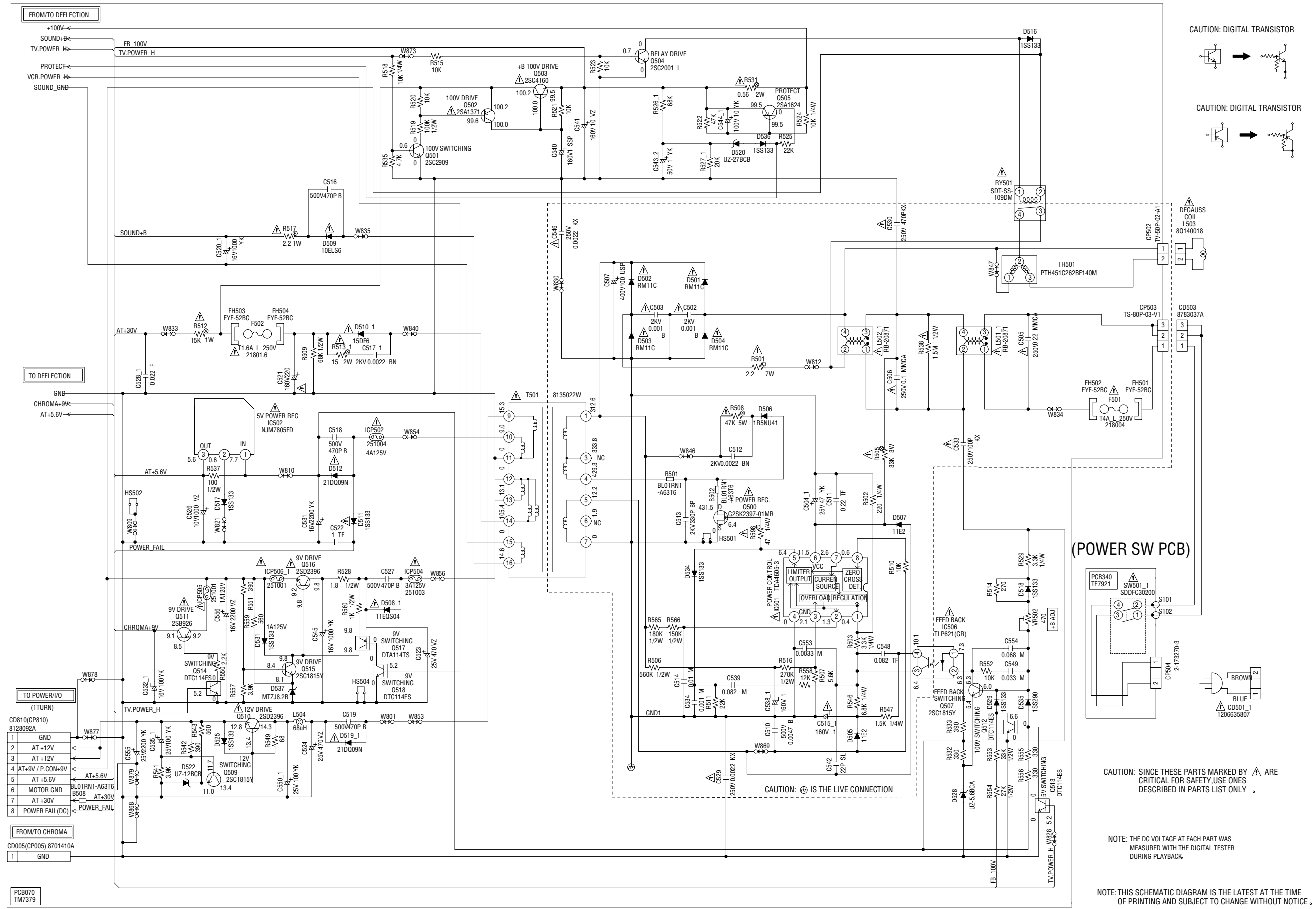
CAUTION: SINCE THESE PARTS MARKED BY Δ ARE CRITICAL FOR SAFETY USE ONES DESCRIBED IN PARTS LIST ONLY.

CAUTION: DIGITAL TRANSISTOR

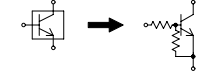


\Rightarrow DEFLECTION SIGNAL

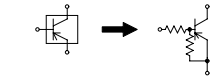
POWER SCHEMATIC DIAGRAM (MAIN PCB)



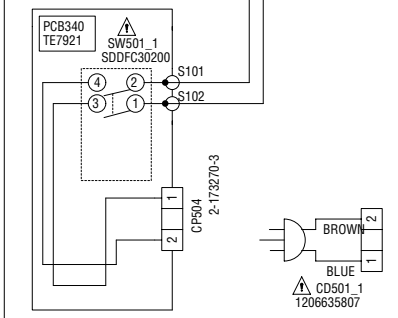
CAUTION: DIGITAL TRANSISTOR



CAUTION: DIGITAL TRANSISTOR



(POWER SW PCB)

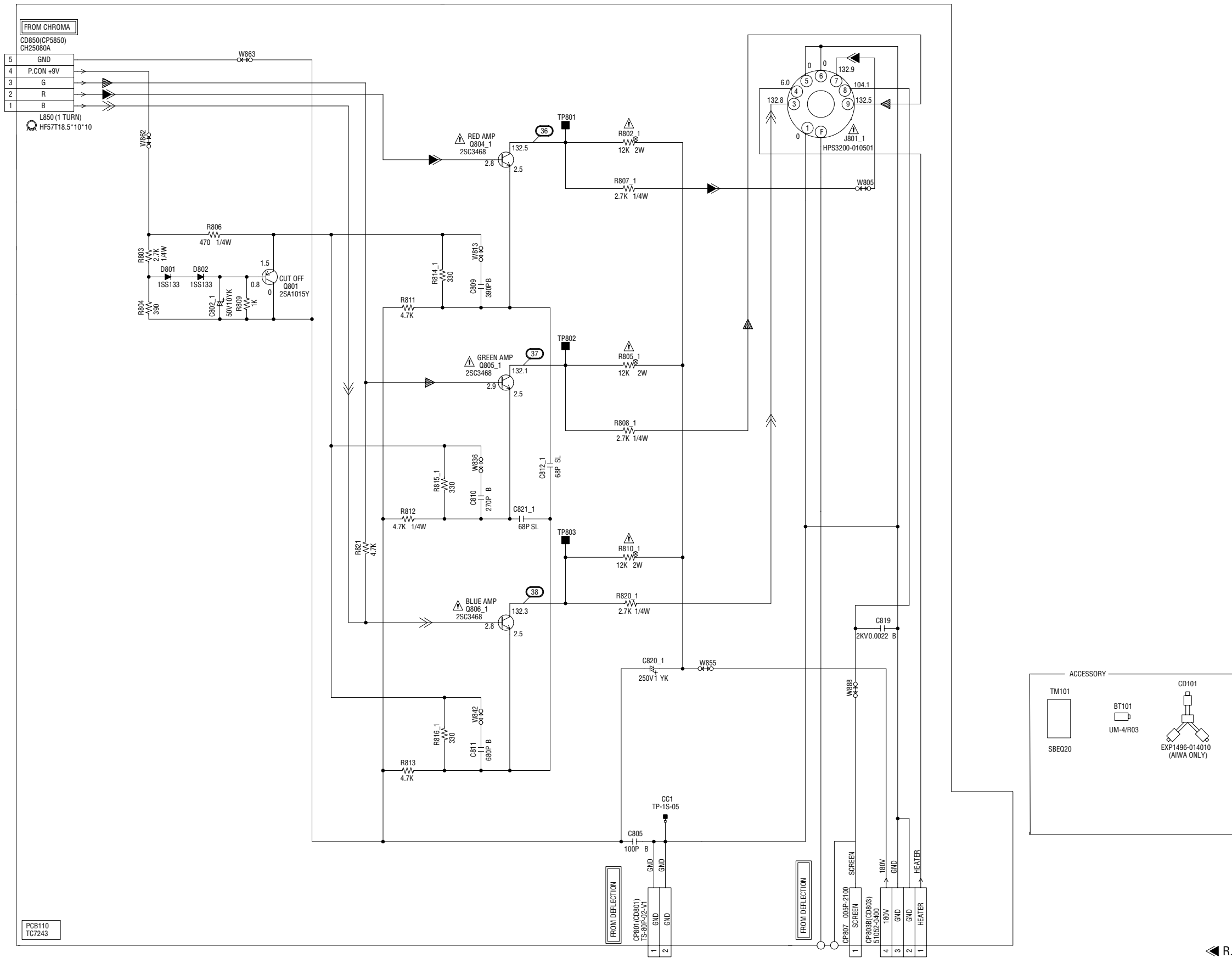


CAUTION: SINCE THESE PARTS MARKED WITH A TRIANGLE ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

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.

CRT SCHEMATIC DIAGRAM (CRT PCB)



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

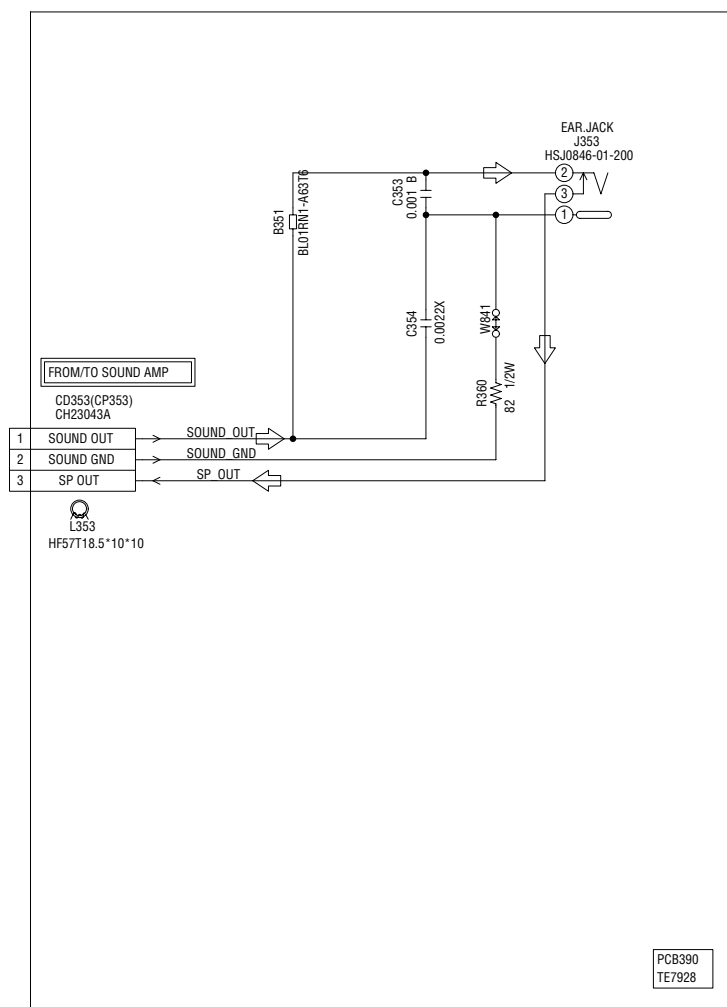
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

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

R.SIGNAL
 G.SIGNAL
 B.SIGNAL

EARPHONE SCHEMATIC DIAGRAM

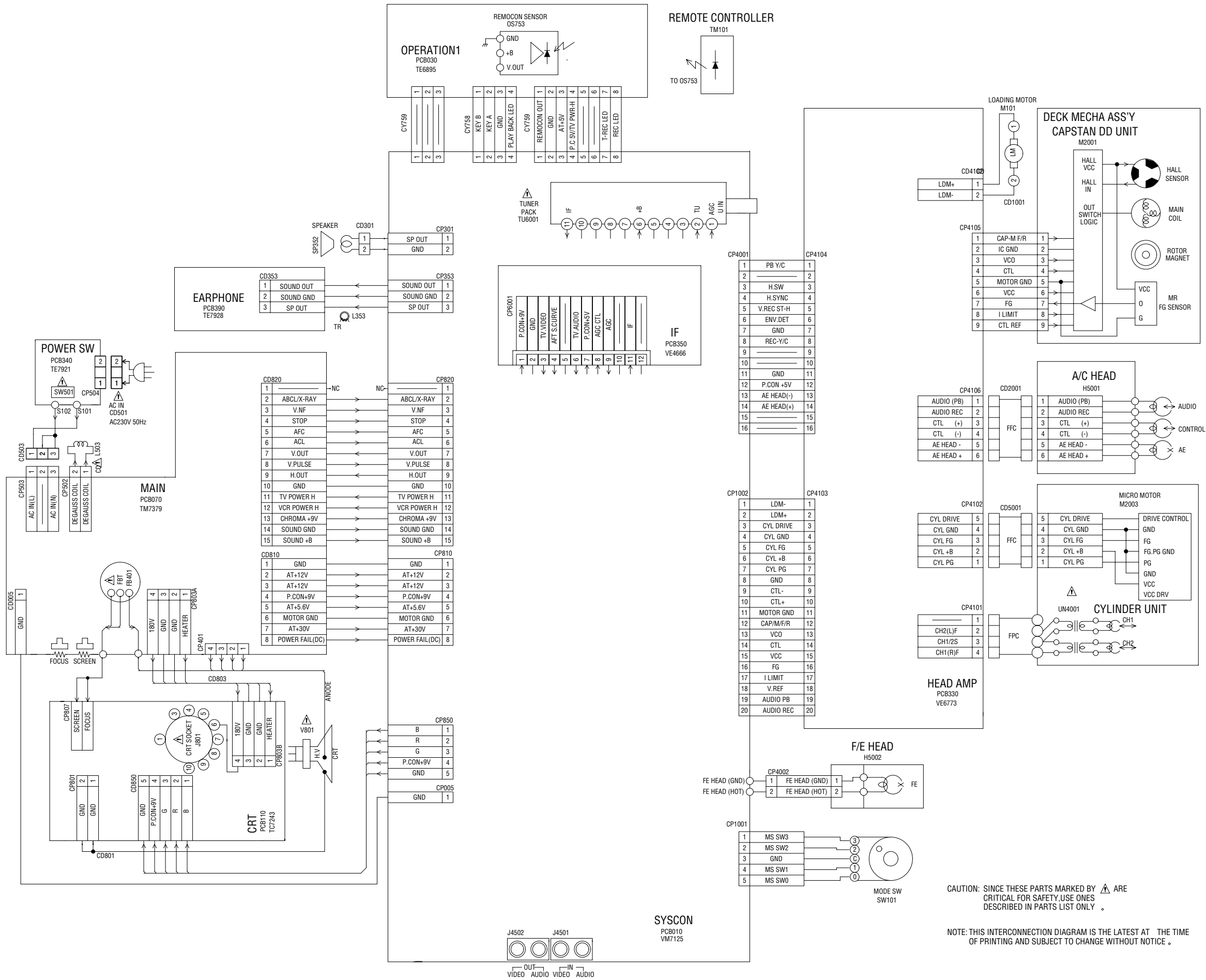
(EARPHONE PCB)



← AUDIO SIGNAL

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

INTERCONNECTION DIAGRAM

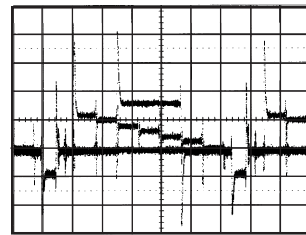


CAUTION: SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

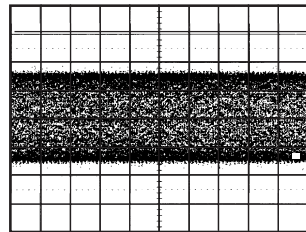
NOTE: THIS INTERCONNECTION DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

WAVEFORMS

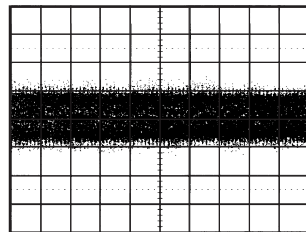
Y/C



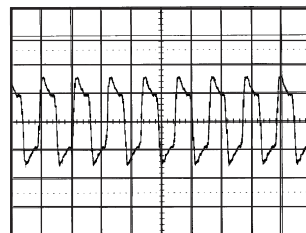
① REC
200mV. 10 μ s/div



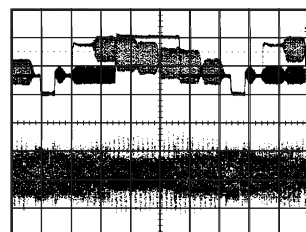
② REC
200mV. 0.5ms/div



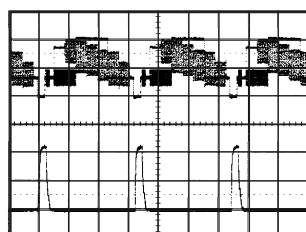
③ PB
200mV. 0.5ms/div



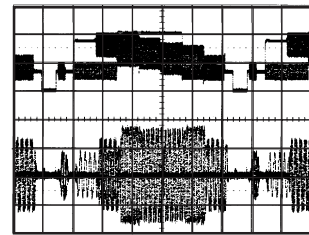
④ REC
200mV. 0.2 μ s/div



⑤ PB
50mV 10 μ s/div

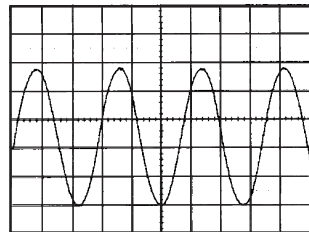


⑥ REC
100mV. 20 μ s/div

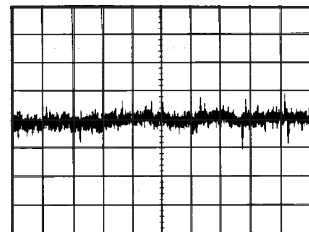


⑦ REC
2V. 10 μ s/div

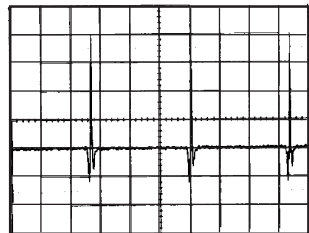
SYSCON



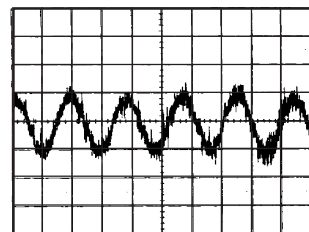
⑧ REC/PB
0.5V. 0.5ms/div



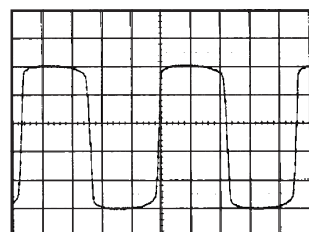
⑨ REC/PB
20mV. 0.5ms/div



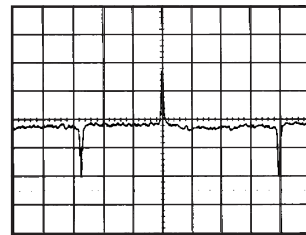
⑩ REC/PB
200mV. 10ms/div



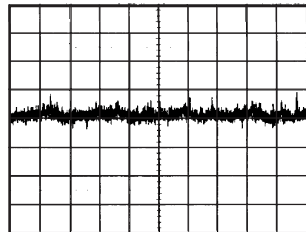
⑪ REC/PB
20mV. 0.5ms/div



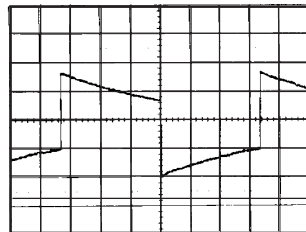
⑫ REC/PB
0.5V 0.2ms/div



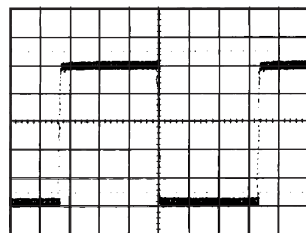
⑬ REC/PB
0.5V 5ms/div



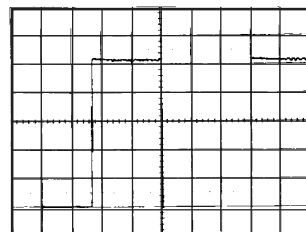
⑭ REC/PB
20mV 5ms/div



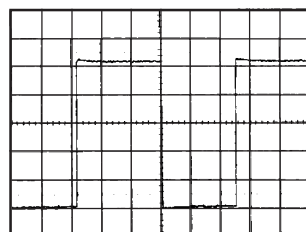
⑭ REC/PB
2V 5ms/div



⑮ REC/PB
0.5V 5ms/div

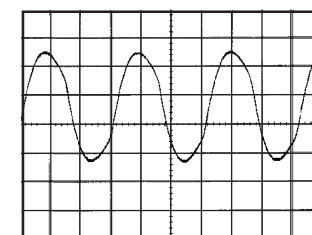


⑯ REC/PB
1V 2 μ s/div

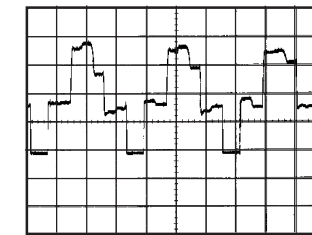


⑰ REC/PB
1V 2 μ s/div

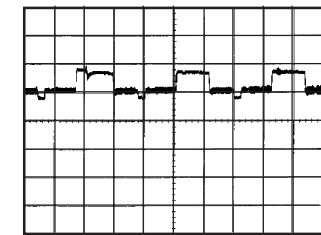
MICON



⑱ 1V 10 μ s/div

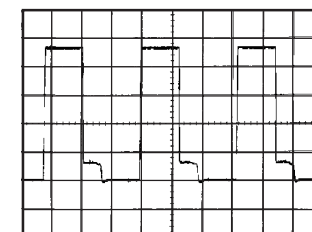


⑳ 1V 20 μ s/div color

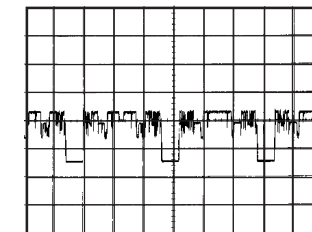


㉑ 1V 20 μ s/div

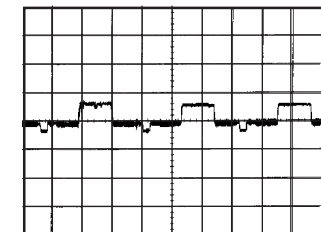
CHROMA



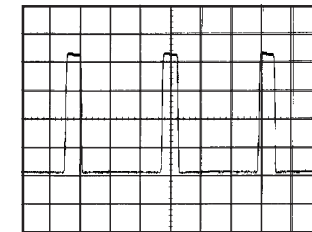
⑲ 1V 20 μ s/div



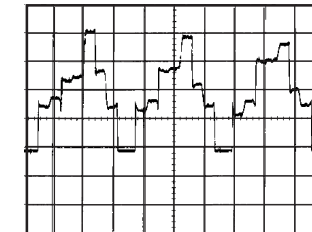
㉒ 2V 20 μ s/div



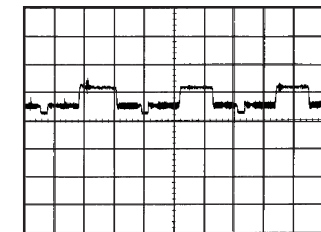
㉓ 1V 20 μ s/div



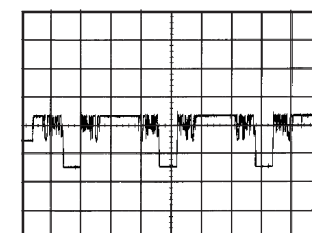
⑳ 2V 20 μ s/div



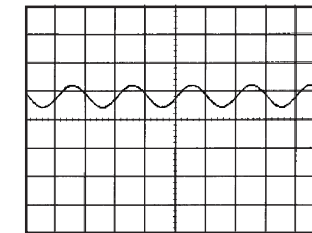
㉒ 1V 20 μ s/div color



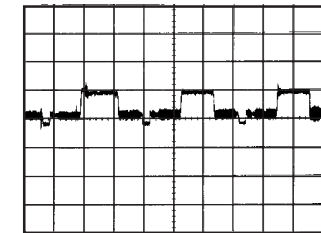
㉔ 1V 20 μ s/div



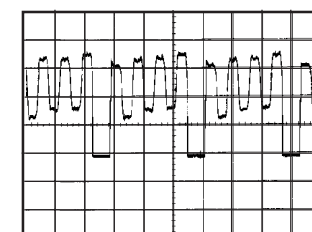
㉑ 2V 20 μ s/div



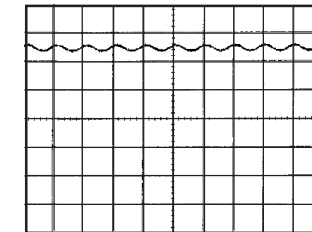
㉕ 1V 500 μ s/div



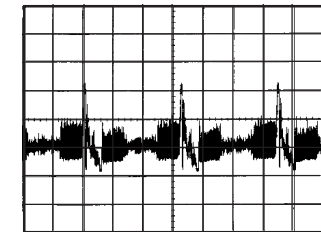
㉖ 1V 20 μ s/div



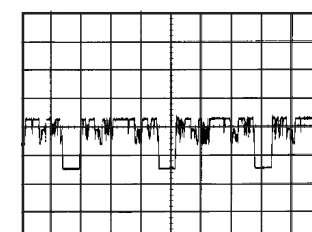
㉑ 1V 20 μ s/div color



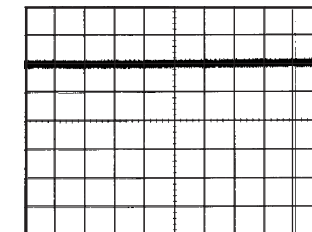
㉕ 1V 1ms/div



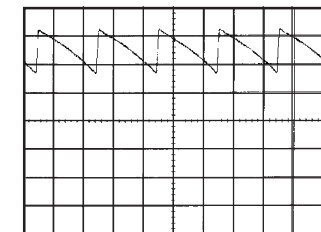
㉖ 1V 20 μ s/div



㉒ 2V 20 μ s/div



㉖ 1V 5 μ s/div

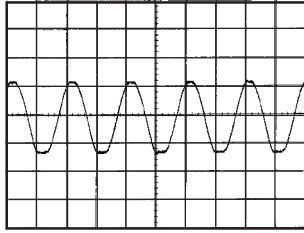


㉗ 1V 10ms/div

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

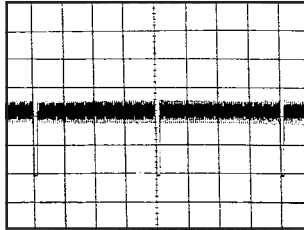
WAVEFORMS

SOUND AMP

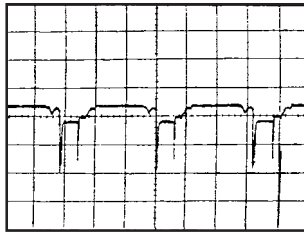


③③ 5V. 500 μ s/div

DEFLECTION

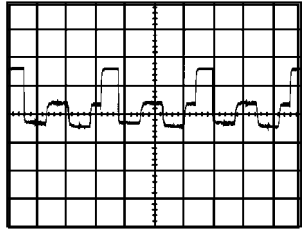


③④ 2V. 5ms/div

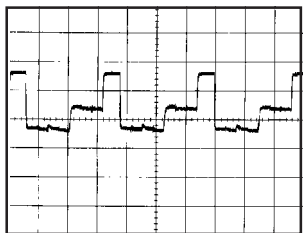


③⑤ 5V. 20 μ s/div

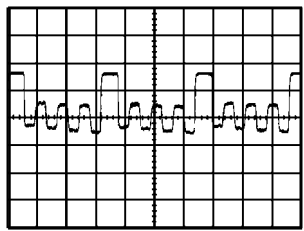
CRT



③⑥ 50V. 20 μ s/div

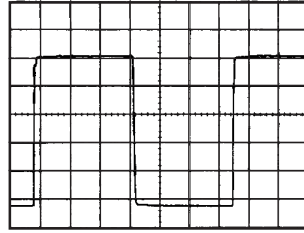


③⑦ 50V. 20 μ s/div

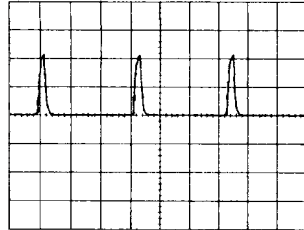


③⑧ 50V. 20 μ s/div

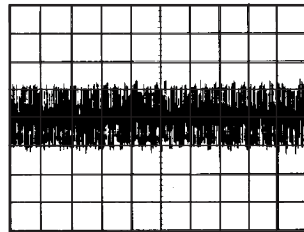
HEAD AMP



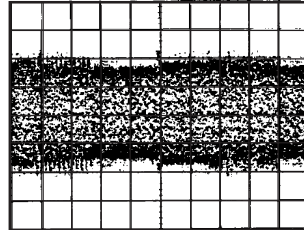
③⑨ REC/PB
500mV. 5ms/div



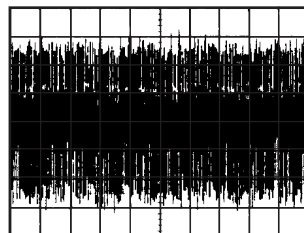
④① REC/PB
1V. 20 μ s/div



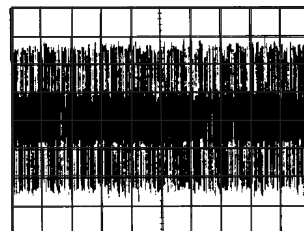
④② PB
500V. 0.1s/div



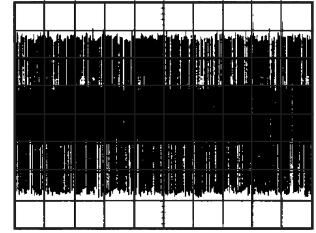
④③ REC
50mV. 10 μ s/div



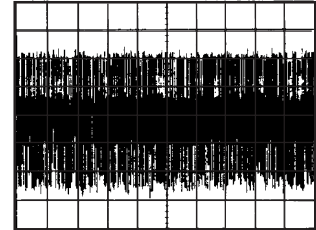
④④ REC/PB
10mV. 1s/div



④⑤ PB
50mV. 50ms/div



④⑥ REC
500mV. 50ms/div



④⑦ PB
50mV. 0.1s/div

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