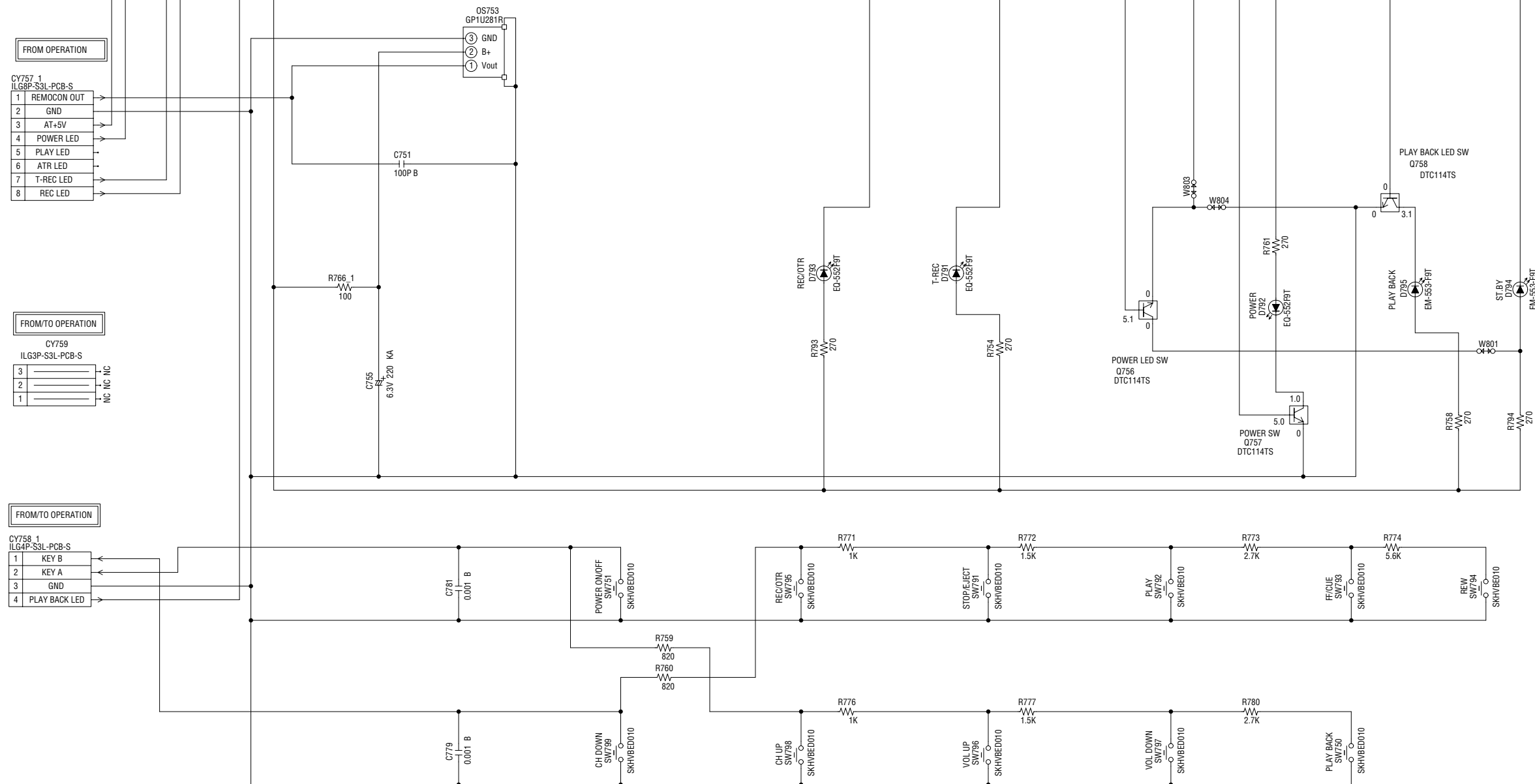


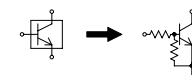
AIWA VX-G142 OPERATION 1 SCHEMATIC DIAGRAM

(OPERATION 1 PCB)



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

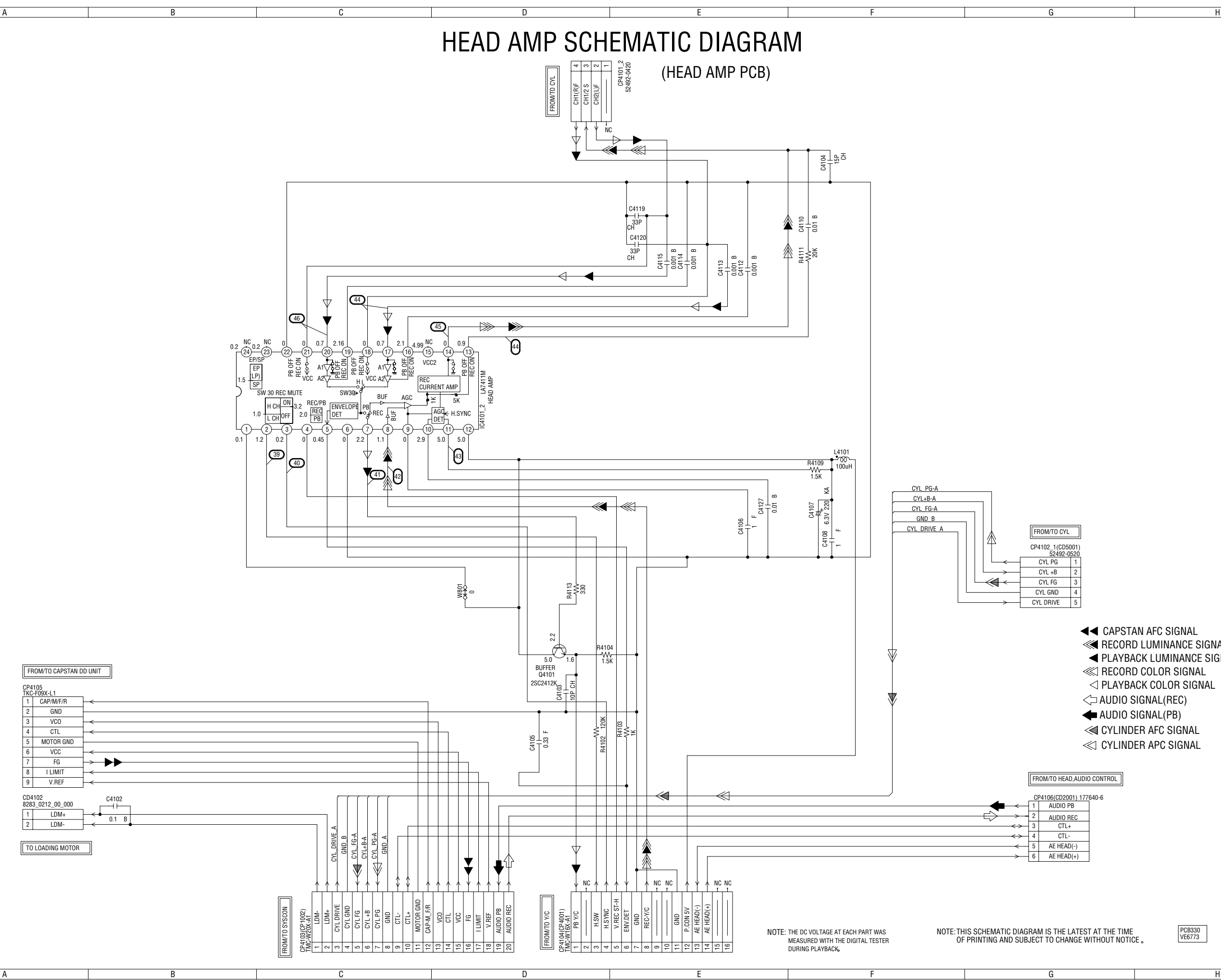
CAUTION: DIGITAL TRANSISTOR



PCB030
TE6895

HEAD AMP SCHEMATIC DIAGRAM

(HEAD AMP PCB)



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 SYS CON

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

FROM/TO V/C

CP4101(CP4001) TMC-W15K-A1	
1	PB V/C
2	NC
3	H.S.W
4	H.S.YNC
5	V REC ST-H
6	ENV/DET
7	GND
8	REC-V/C
9	NC
10	NC
11	GND
12	P.COM SV
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(+)

- ◀ 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

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.

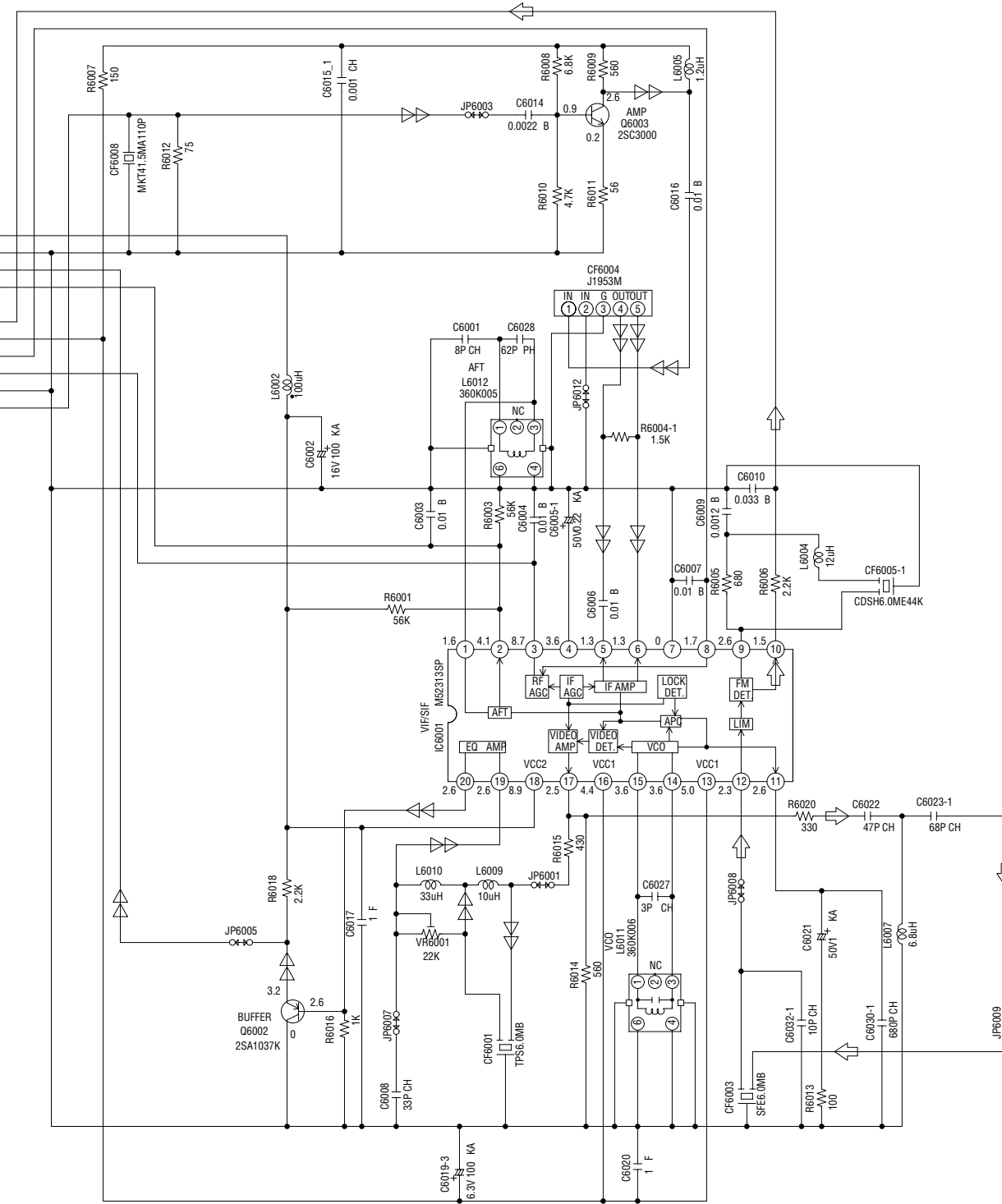
PCB330
VE6773



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

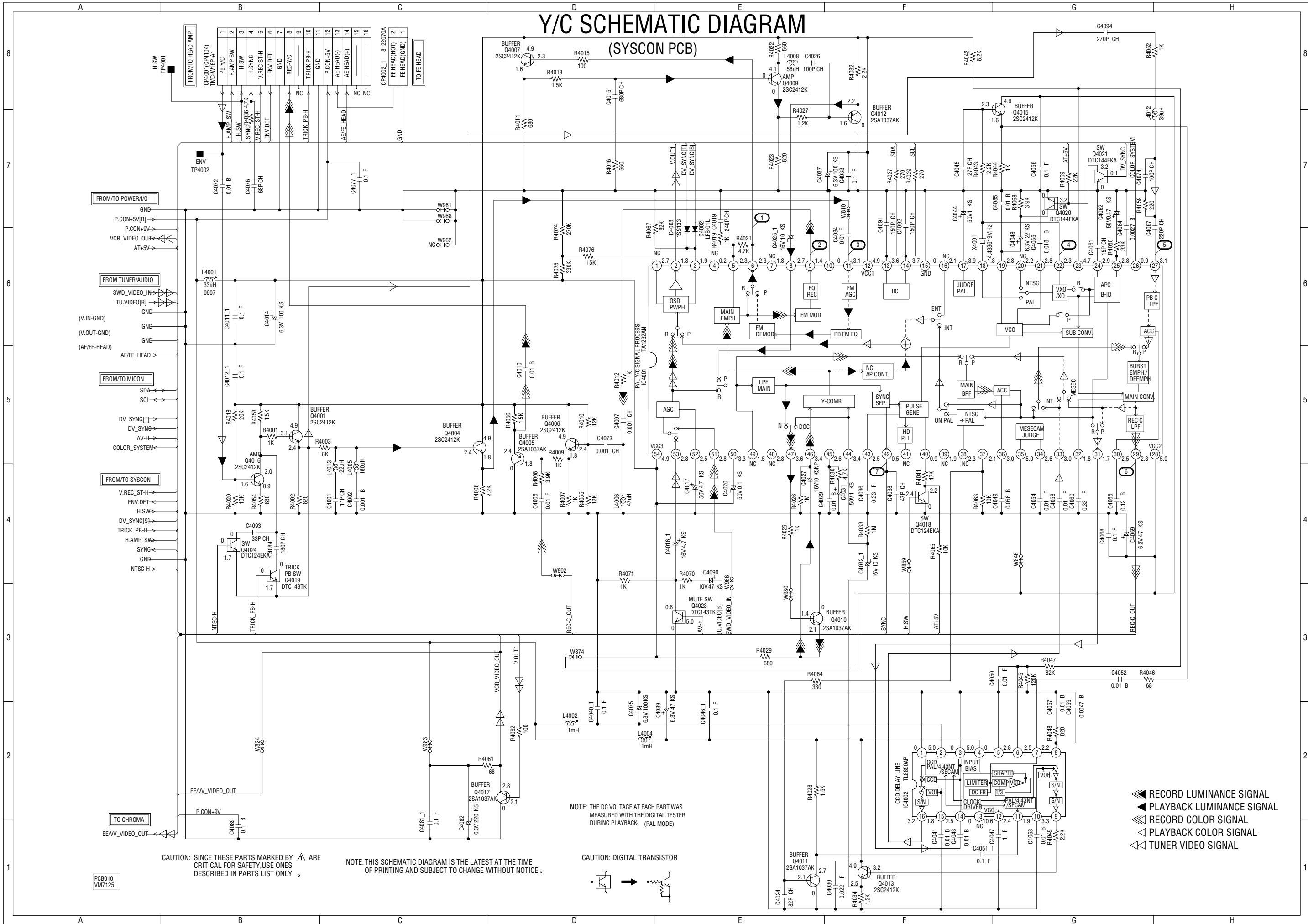
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

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)

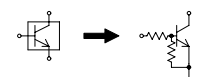


PCB010
VM7125

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.

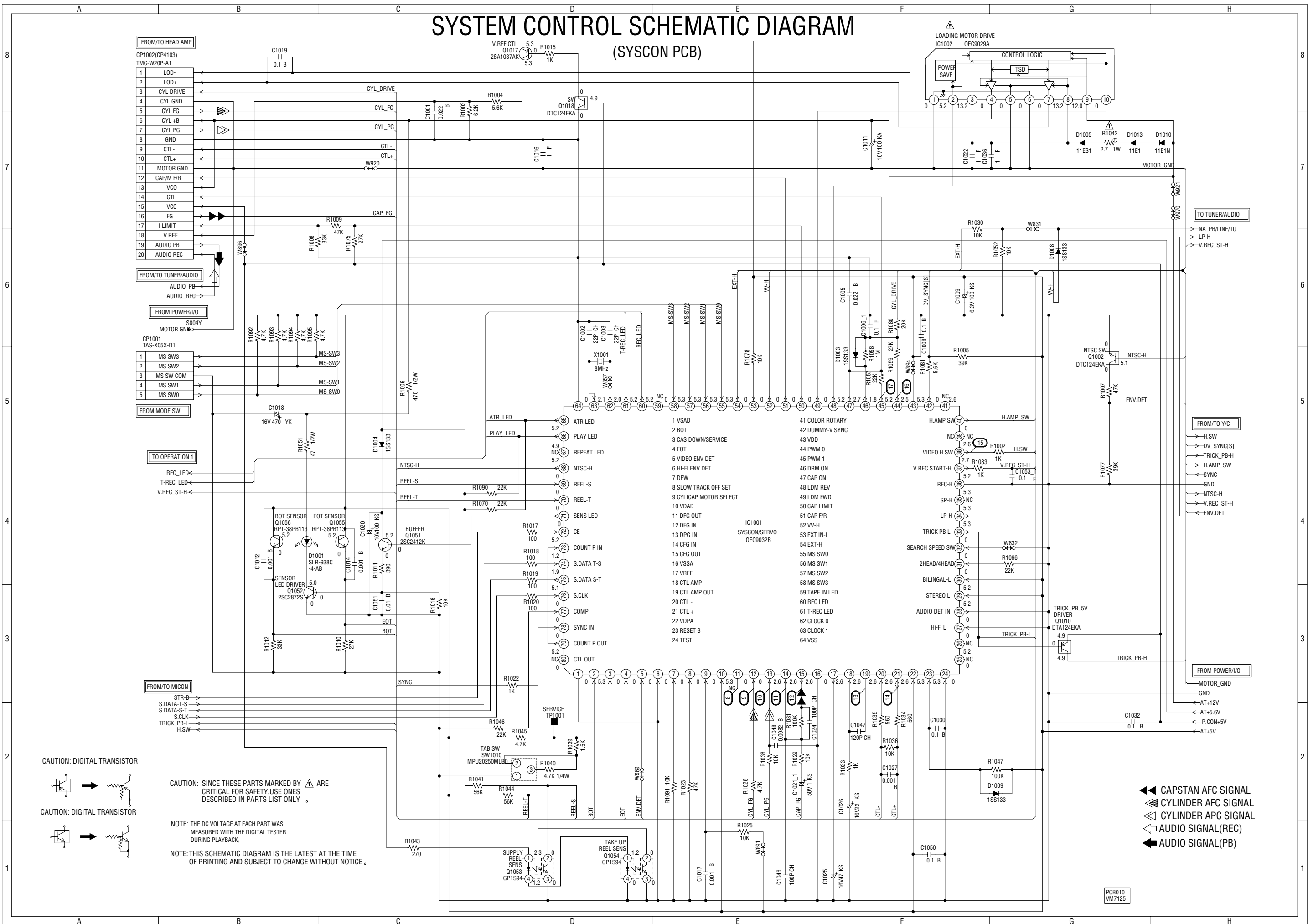
CAUTION: DIGITAL TRANSISTOR



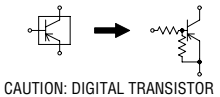
- RECORD LUMINANCE SIGNAL
- PLAYBACK LUMINANCE SIGNAL
- RECORD COLOR SIGNAL
- PLAYBACK COLOR SIGNAL
- TUNER VIDEO SIGNAL

SYSTEM CONTROL SCHEMATIC DIAGRAM

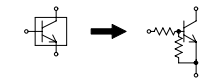
(SYSCON PCB)



CAUTION: DIGITAL TRANSISTOR



CAUTION: DIGITAL TRANSISTOR



CAUTION: SINCE THESE PARTS MARKED WITH Δ 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.

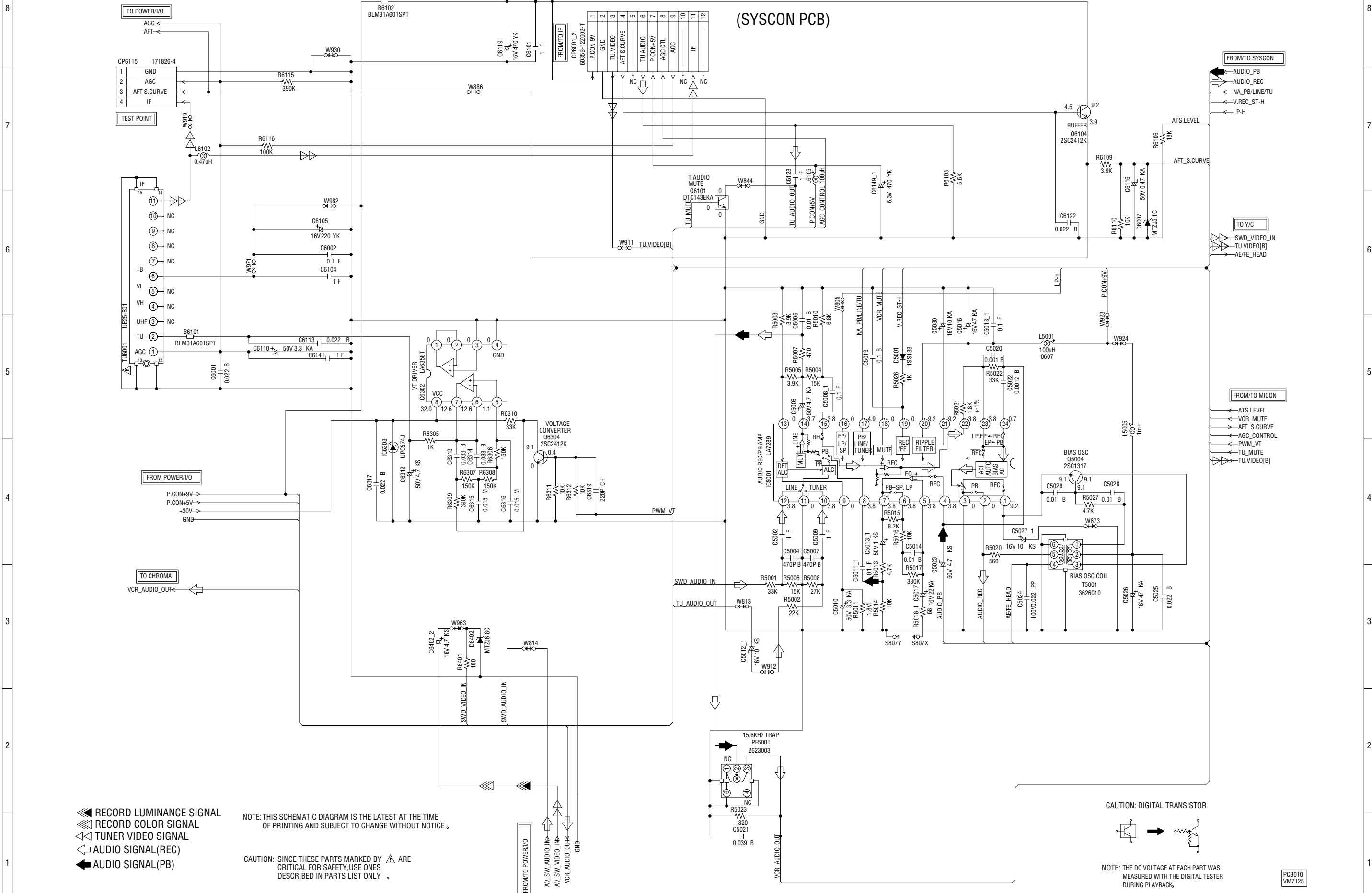
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

- \blacktriangleleft CAPSTAN AFC SIGNAL
- \blacktriangleleft CYLINDER AFC SIGNAL
- \blacktriangleleft CYLINDER APC SIGNAL
- \blacktriangleleft AUDIO SIGNAL(REC)
- \blacktriangleleft 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.

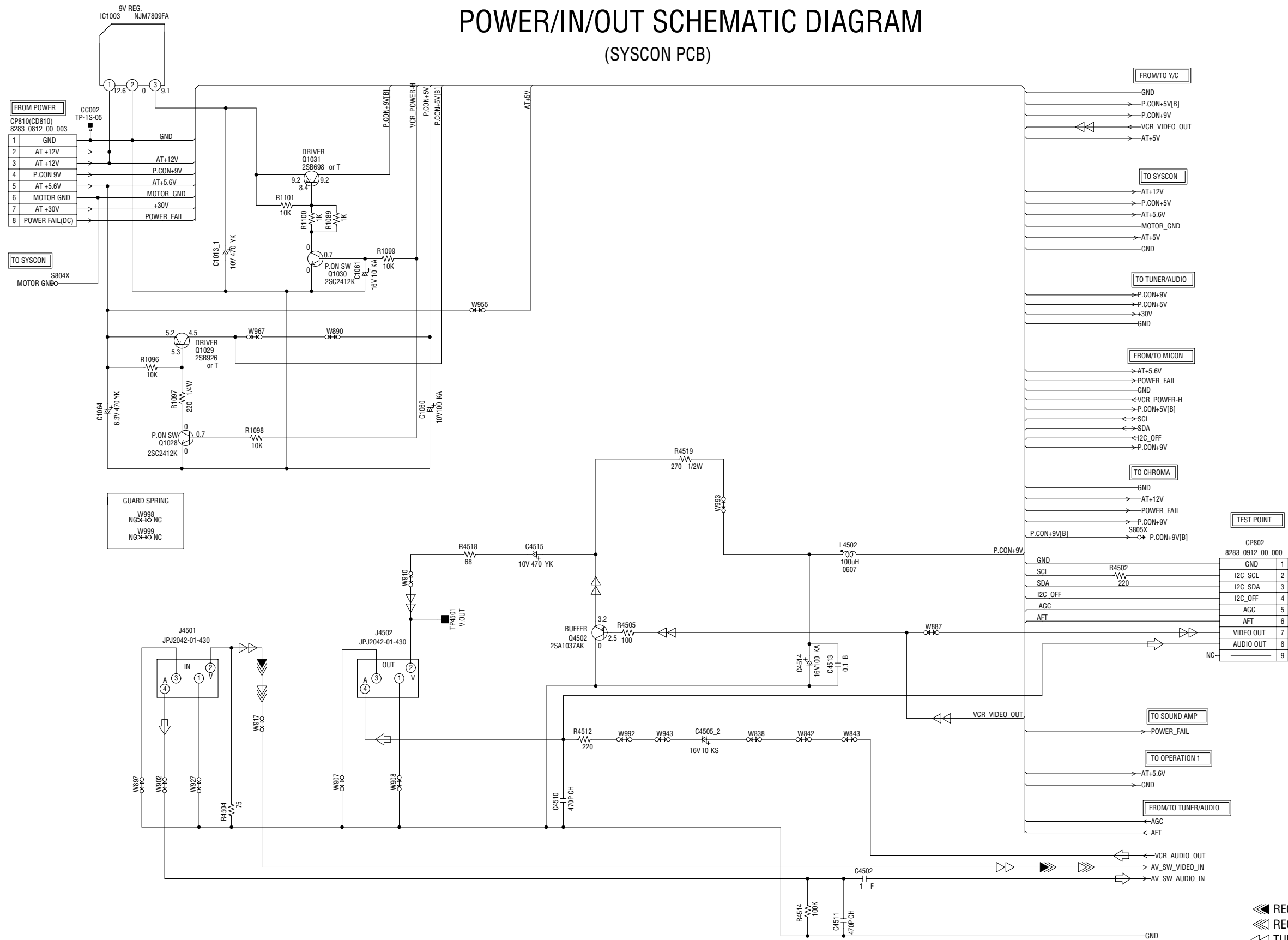
CAUTION: DIGITAL TRANSISTOR



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

PCB010 VM7125

POWER/IN/OUT SCHEMATIC DIAGRAM (SYSCON PCB)



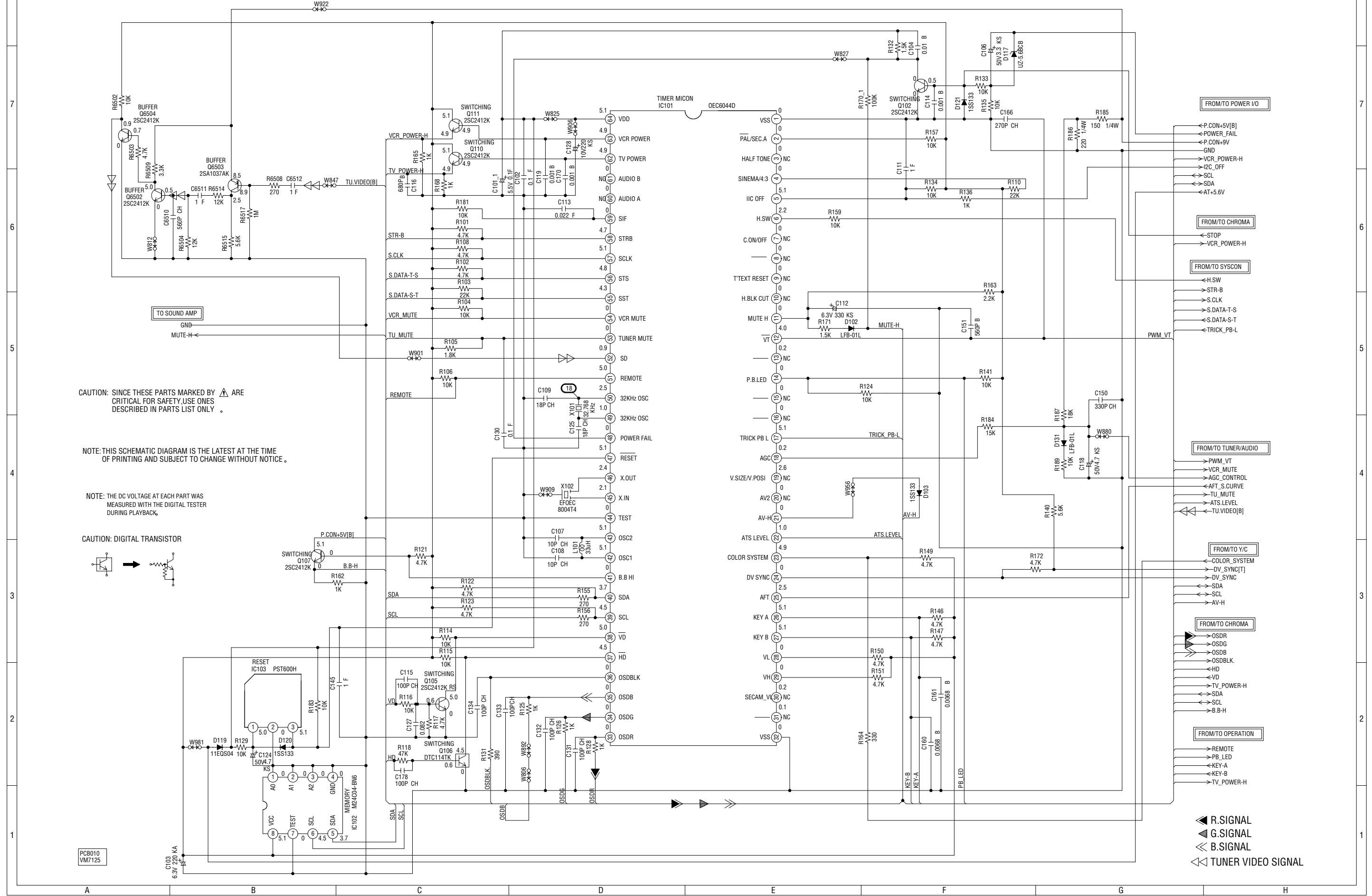
CAUTION: SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

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.

MICON SCHEMATIC DIAGRAM

(SYSCON PCB)

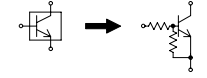


CAUTION: SINCE THESE PARTS MARKED BY \triangle ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

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



FROM/TO POWER I/O

FROM/TO CHROMA

FROM/TO SYSCON

FROM/TO TUNER/AUDIO

FROM/TO Y/C

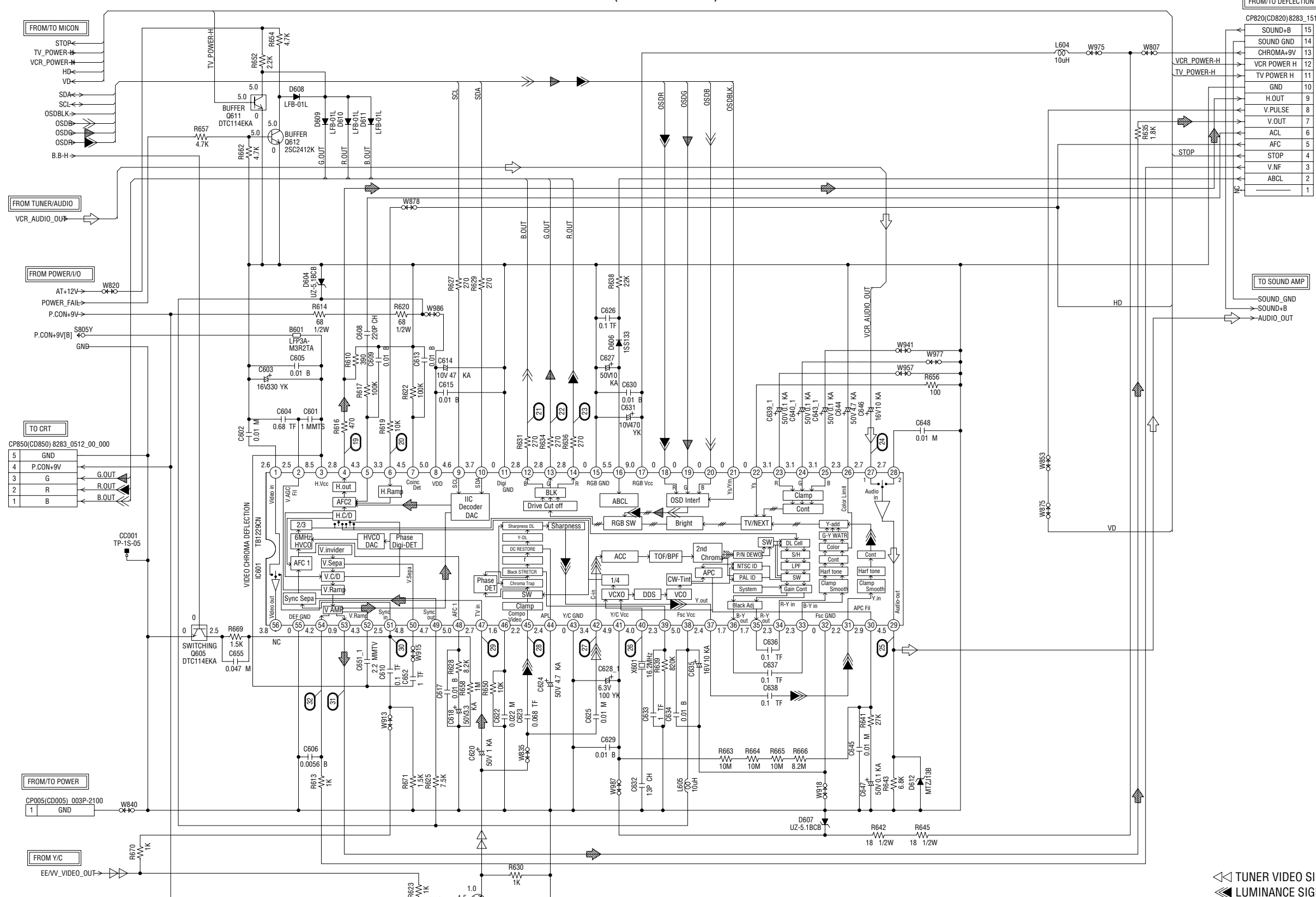
FROM/TO CHROMA

FROM/TO OPERATION

- \blacktriangleleft R.SIGNAL
- \blacktriangle G.SIGNAL
- \blacktriangleleft B.SIGNAL
- \blacktriangleleft 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
	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.

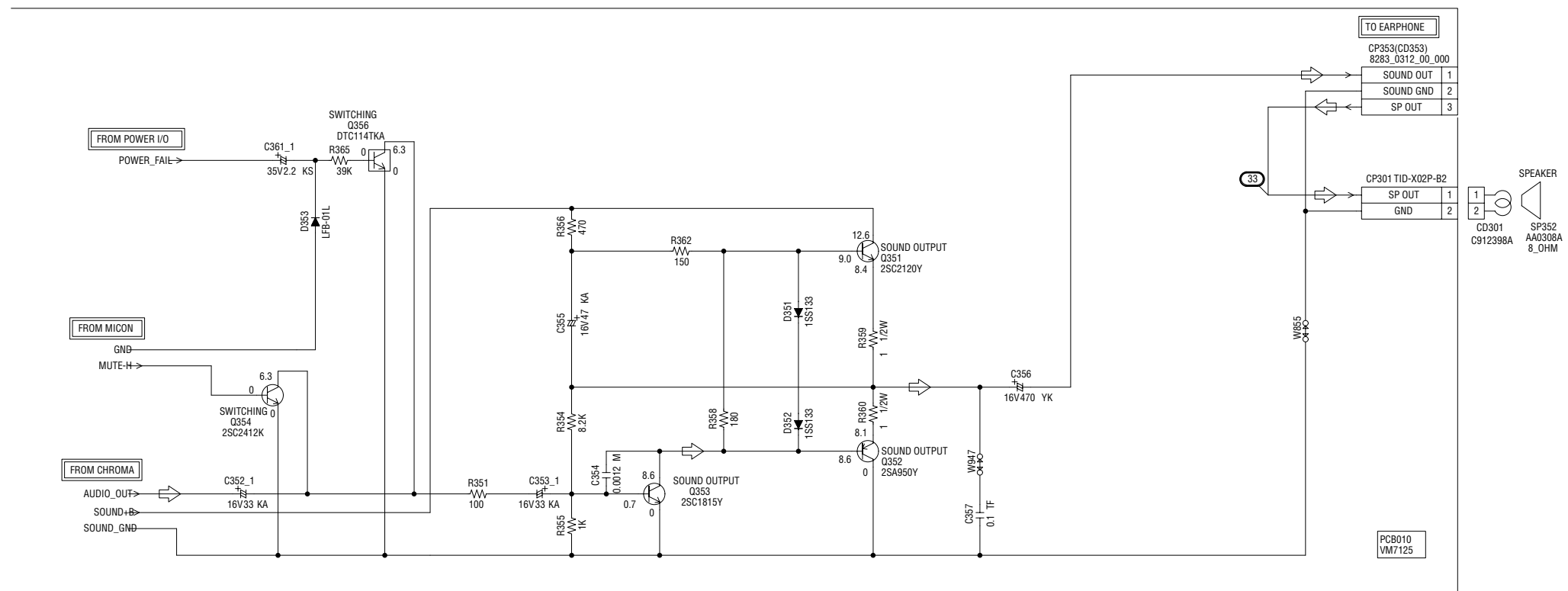
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

CAUTION: DIGITAL TRANSISTOR

- TUNER VIDEO SIGNAL
- LUMINANCE SIGNAL
- COLOR SIGNAL
- R.SIGNAL
- G.SIGNAL
- B.SIGNAL
- DEFLECTION SIGNAL
- AUDIO SIGNAL

SOUND AMP SCHEMATIC DIAGRAM

(SYSCON PCB)

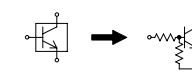


CAUTION: SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

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.

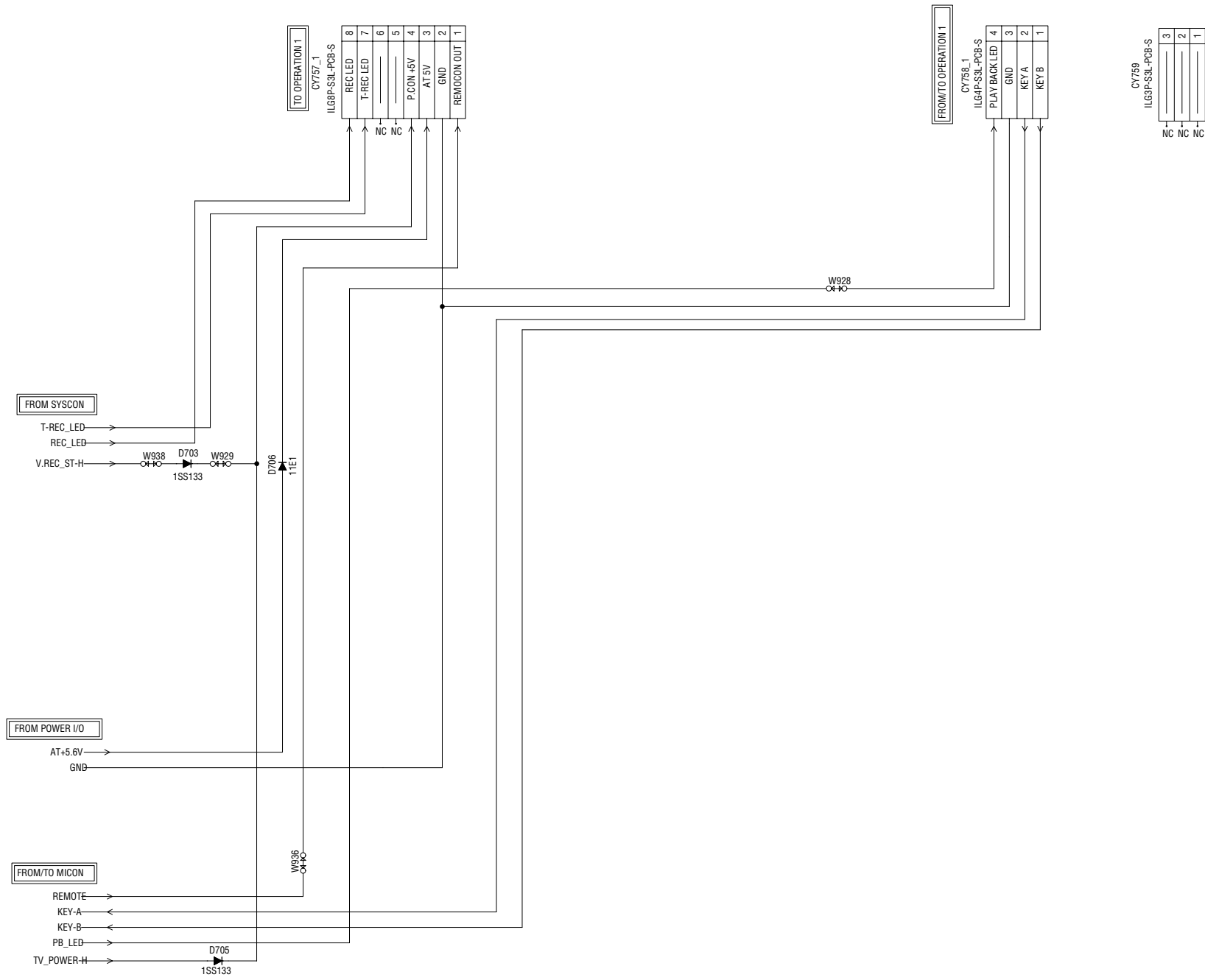
CAUTION: DIGITAL TRANSISTOR



AUDIO SIGNAL

OPERATION SCHEMATIC DIAGRAM

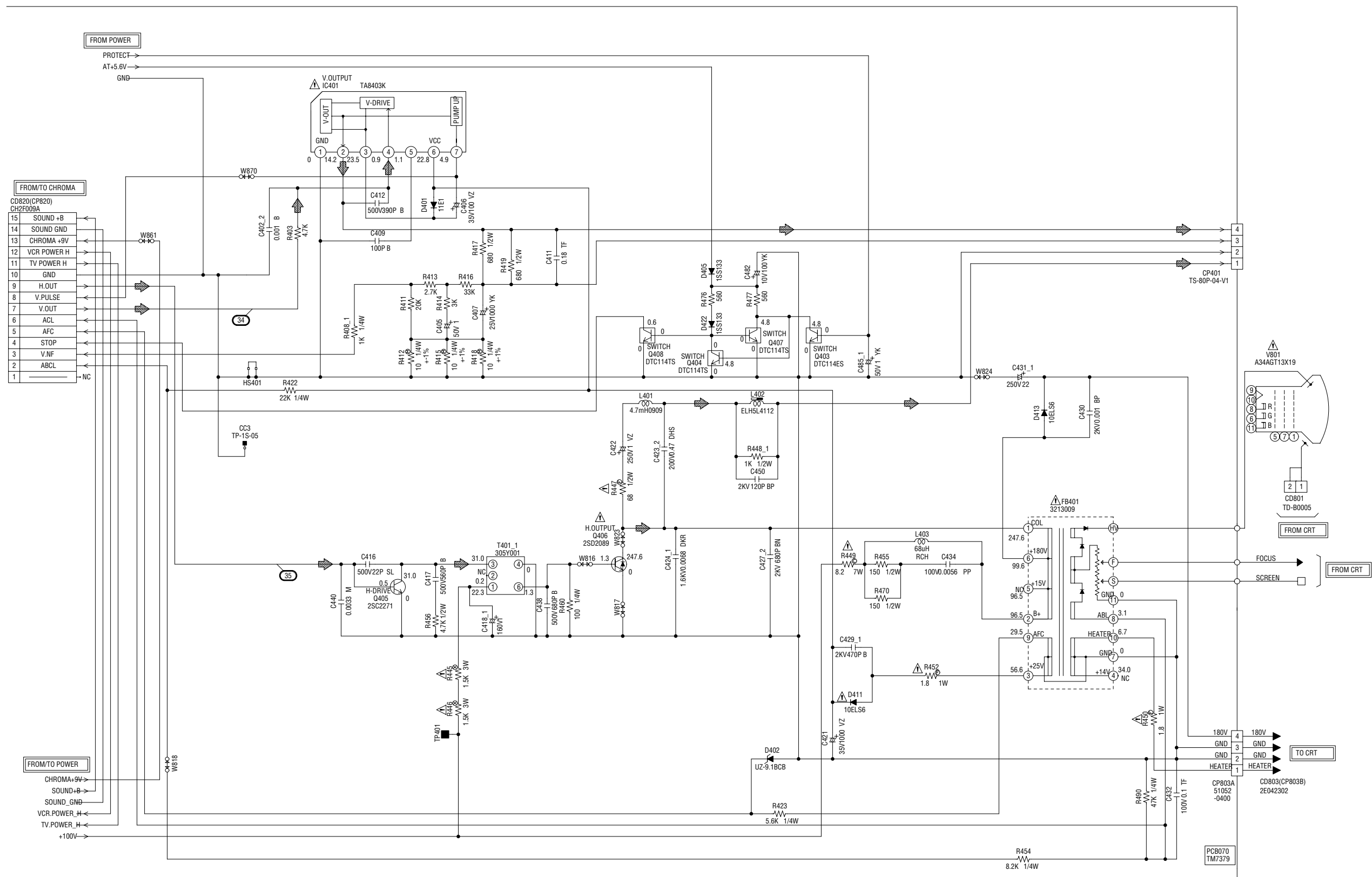
(SYSCON PCB)



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

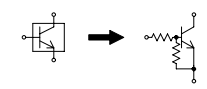
4	180V
3	GND
2	GND
1	HEATER

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.

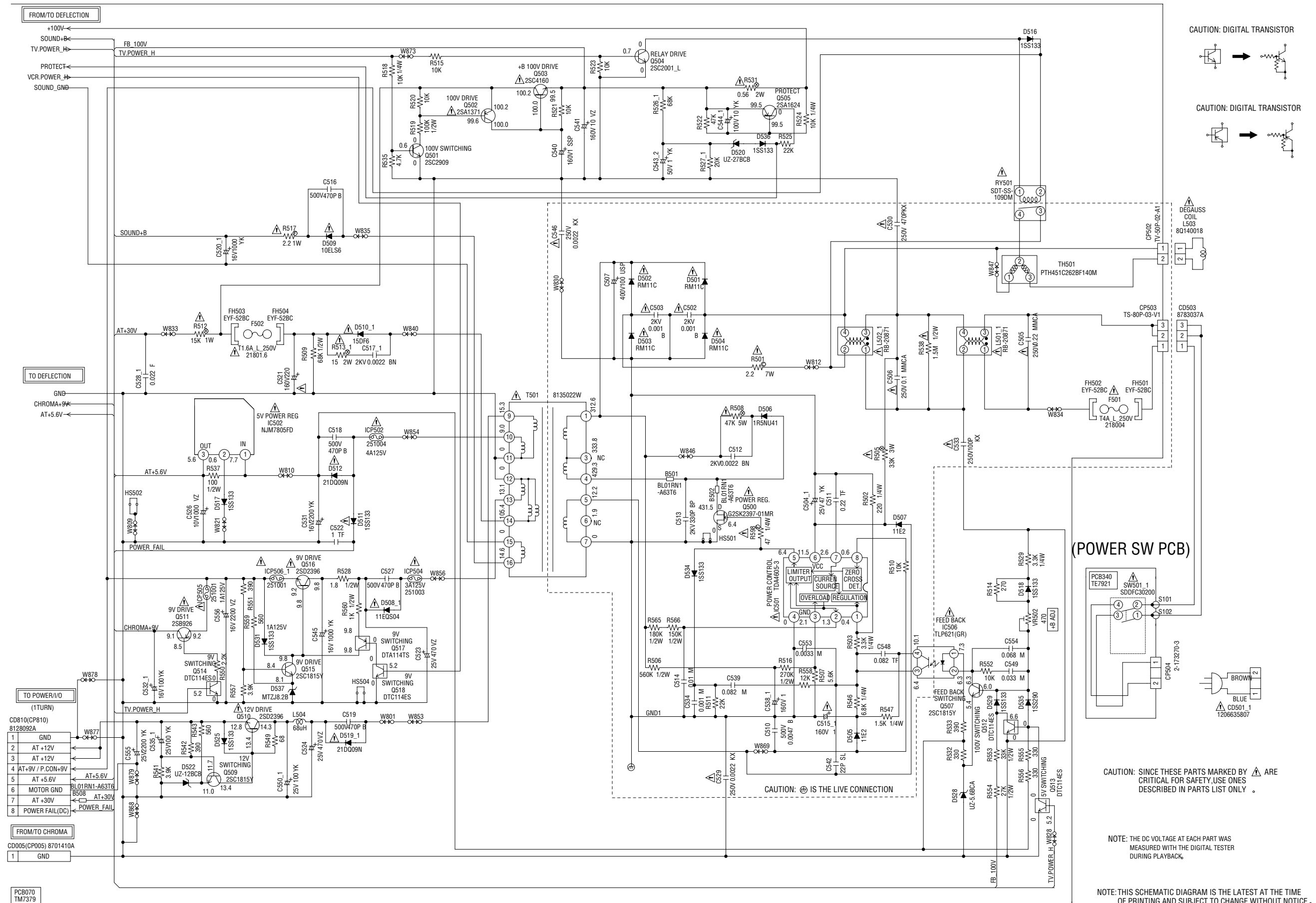
CAUTION: SINCE THESE PARTS MARKED BY Δ ARE CRITICAL FOR SAFETY USE ONES DESCRIBED IN PARTS LIST ONLY.

CAUTION: DIGITAL TRANSISTOR

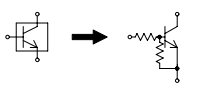


\Rightarrow DEFLECTION SIGNAL

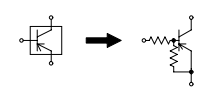
POWER SCHEMATIC DIAGRAM (MAIN PCB)



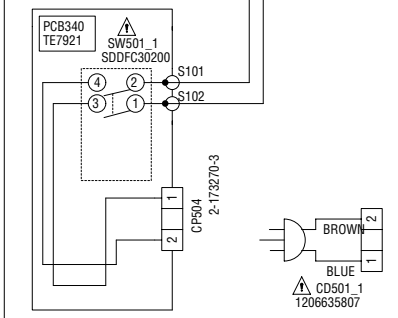
CAUTION: DIGITAL TRANSISTOR



CAUTION: DIGITAL TRANSISTOR



(POWER SW PCB)

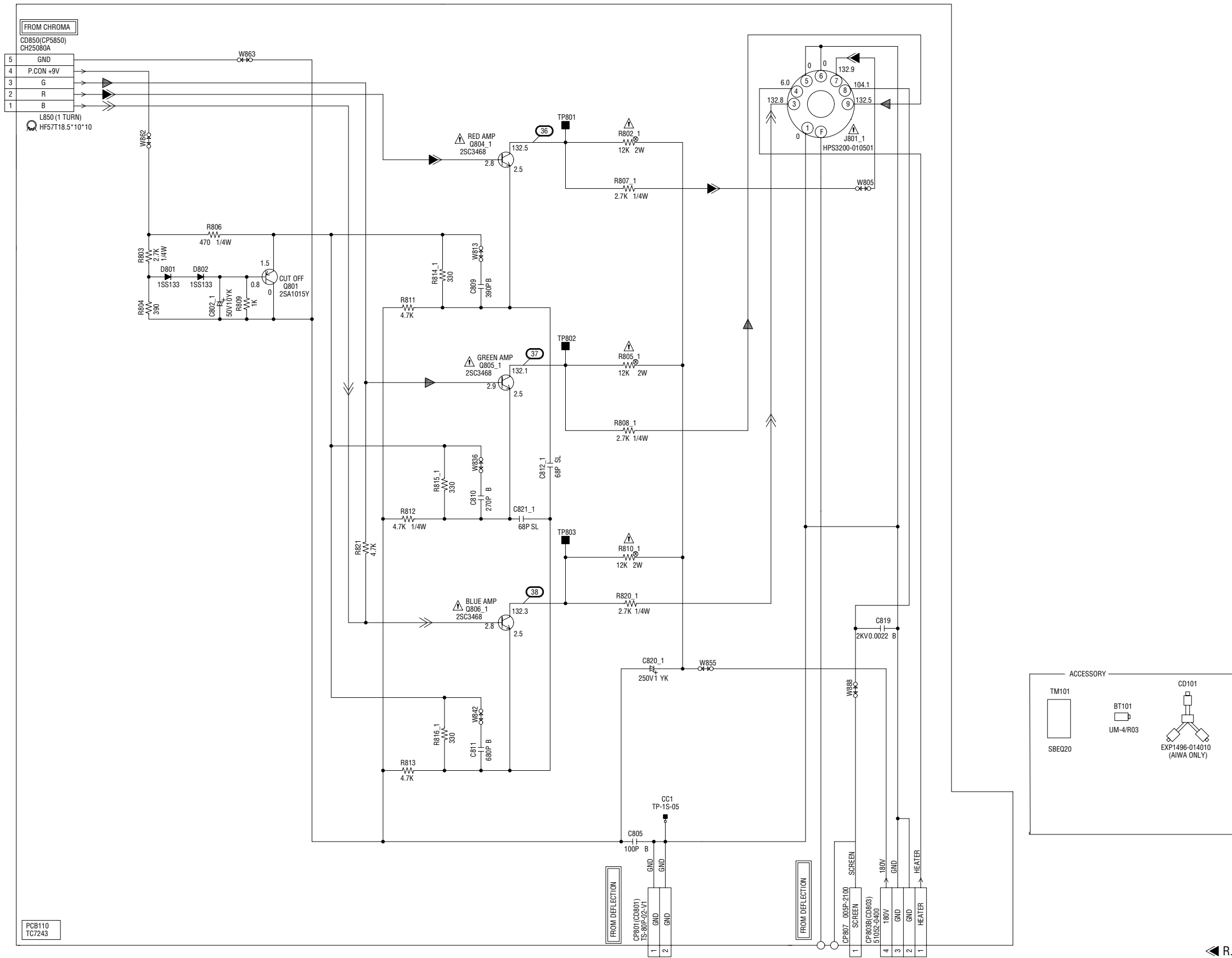


CAUTION: SINCE THESE PARTS MARKED WITH ⚠️ ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

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.

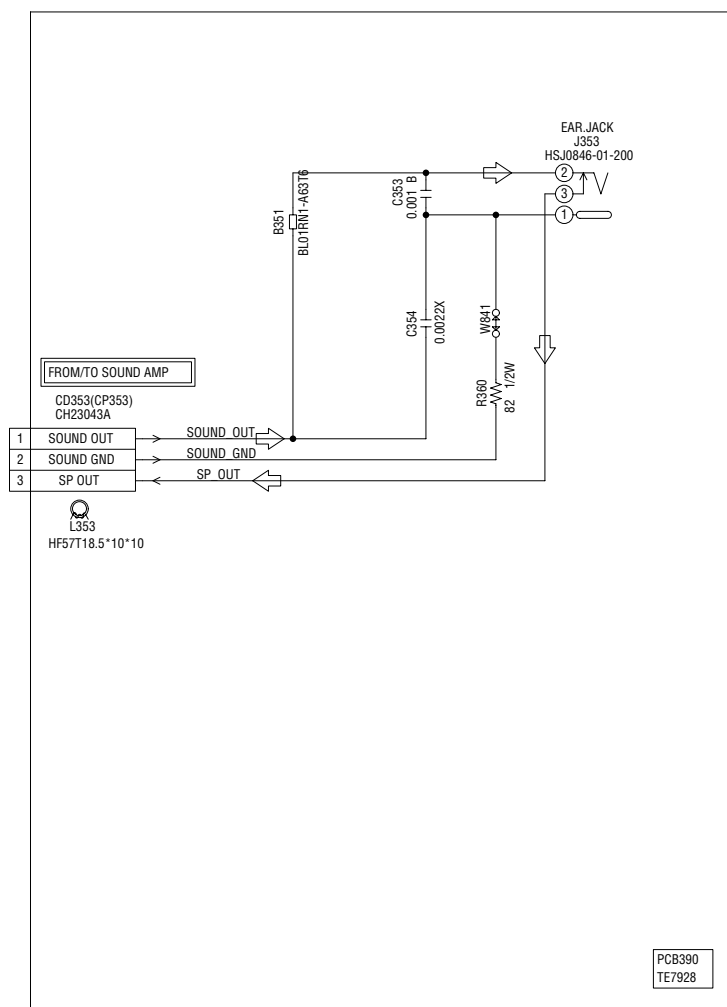
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

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

R.SIGNAL
 G.SIGNAL
 B.SIGNAL

EARPHONE SCHEMATIC DIAGRAM

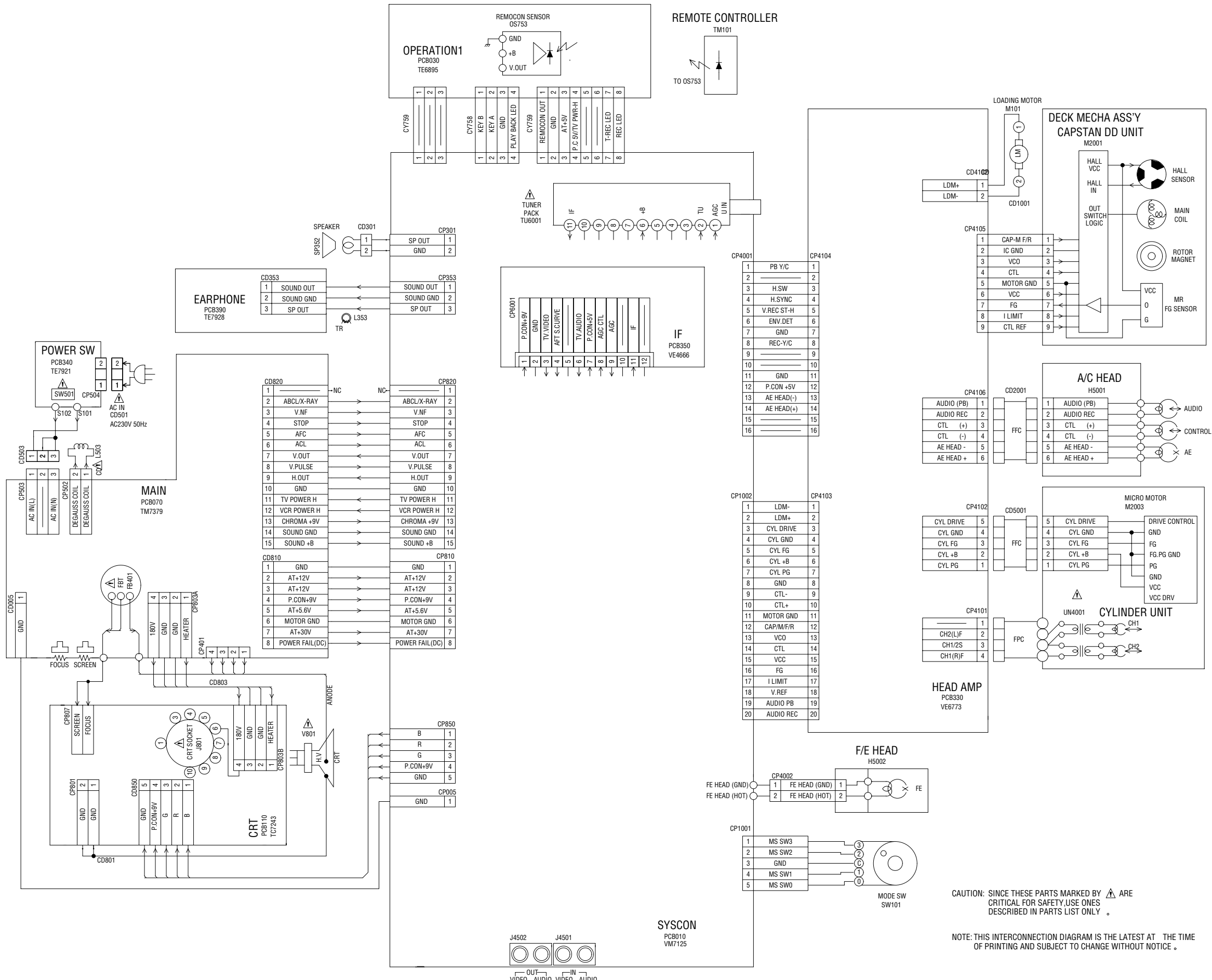
(EARPHONE PCB)



← AUDIO SIGNAL

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

INTERCONNECTION DIAGRAM

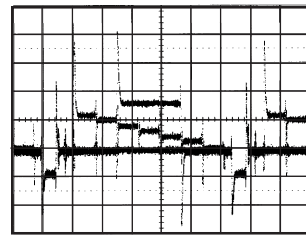


CAUTION: SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

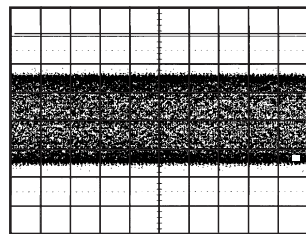
NOTE: THIS INTERCONNECTION DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

WAVEFORMS

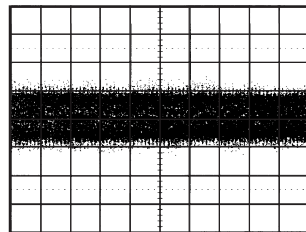
Y/C



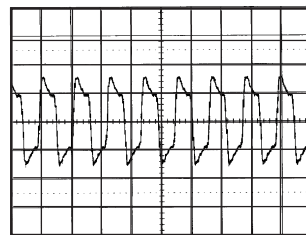
① REC
200mV. 10 μ s/div



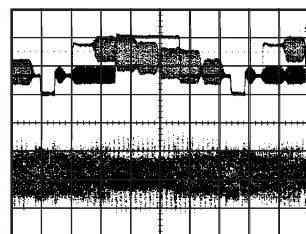
② REC
200mV. 0.5ms/div



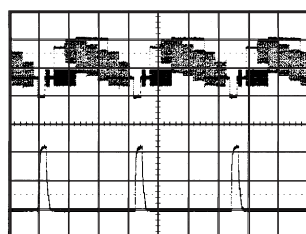
③ PB
200mV. 0.5ms/div



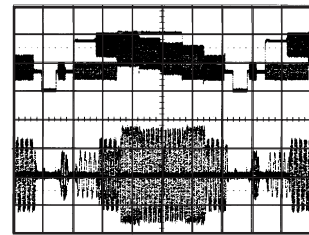
④ REC
200mV. 0.2 μ s/div



⑤ PB
50mV 10 μ s/div

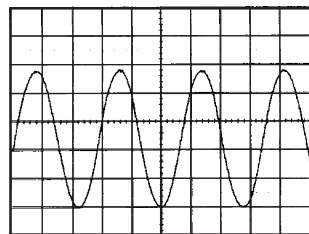


⑥ REC
100mV. 20 μ s/div

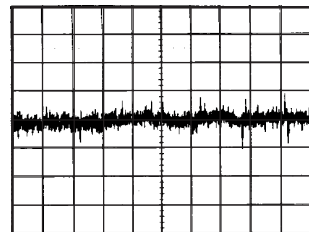


⑦ REC
2V. 10 μ s/div

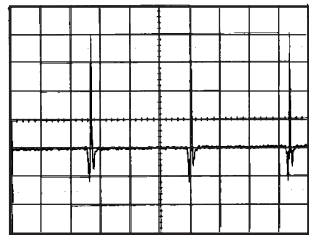
SYSCON



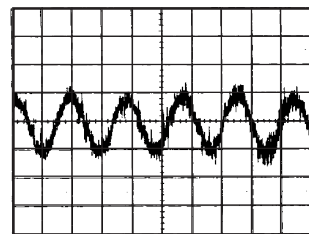
⑧ REC/PB
0.5V. 0.5ms/div



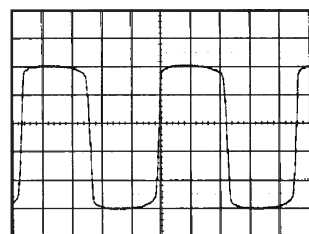
⑨ REC/PB
20mV. 0.5ms/div



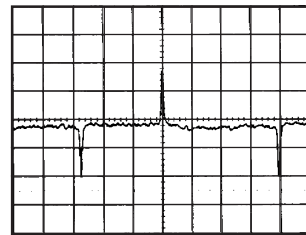
⑩ REC/PB
200mV. 10ms/div



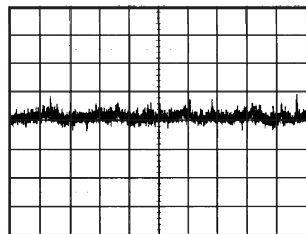
⑪ REC/PB
20mV. 0.5ms/div



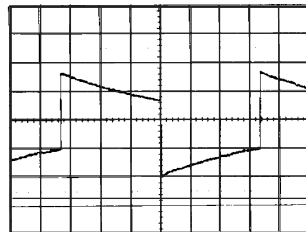
⑫ REC/PB
0.5V 0.2ms/div



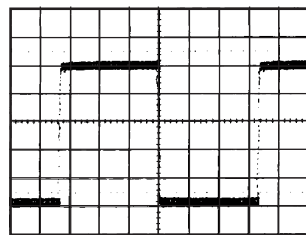
⑬ REC/PB
0.5V 5ms/div



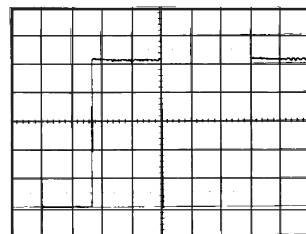
⑭ REC/PB
20mV 5ms/div



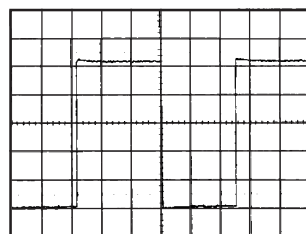
⑭ REC/PB
2V 5ms/div



⑮ REC/PB
0.5V 5ms/div

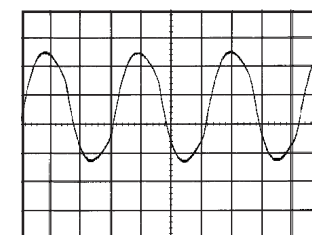


⑯ REC/PB
1V 2 μ s/div

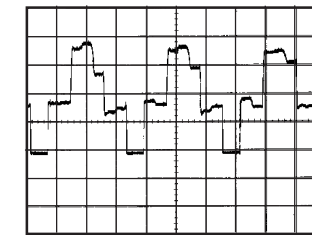


⑰ REC/PB
1V 2 μ s/div

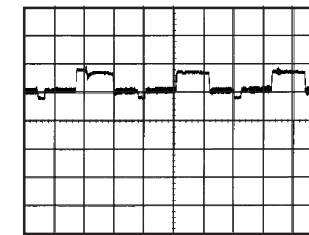
MICON



⑱ 1V 10 μ s/div

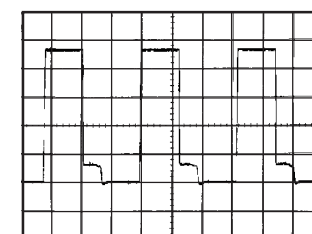


⑳ 1V 20 μ s/div color

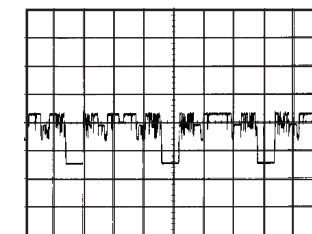


㉑ 1V 20 μ s/div

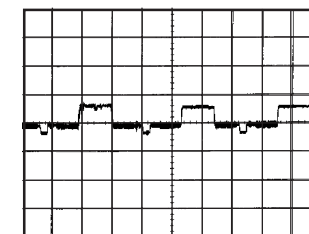
CHROMA



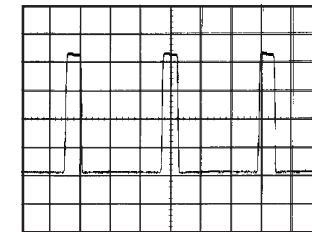
⑲ 1V 20 μ s/div



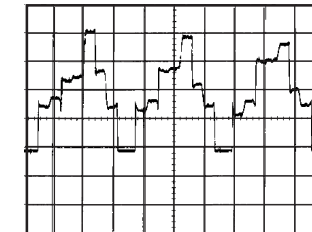
㉒ 2V 20 μ s/div



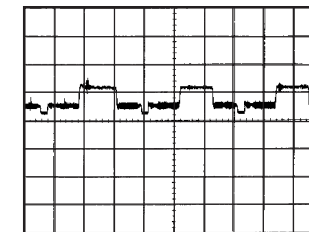
㉓ 1V 20 μ s/div



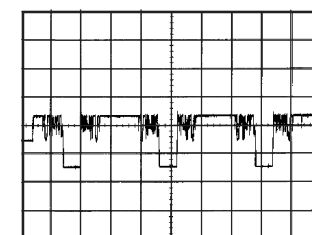
㉔ 2V 20 μ s/div



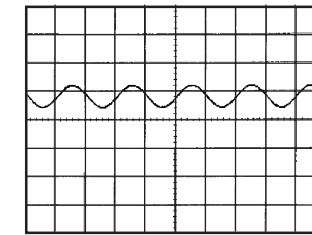
㉒ 1V 20 μ s/div color



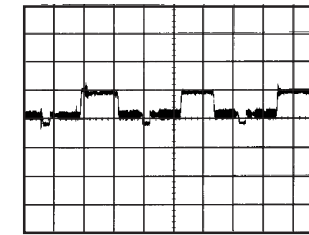
㉕ 1V 20 μ s/div



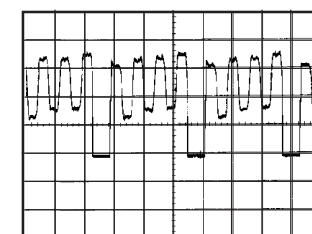
㉖ 2V 20 μ s/div



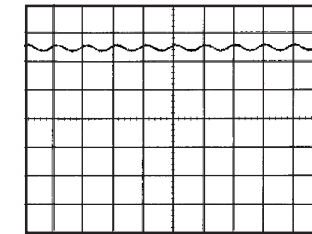
㉗ 1V 500 μ s/div



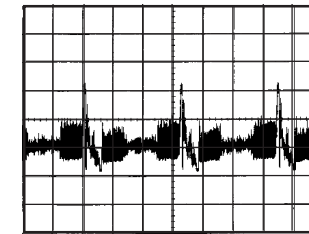
㉘ 1V 20 μ s/div



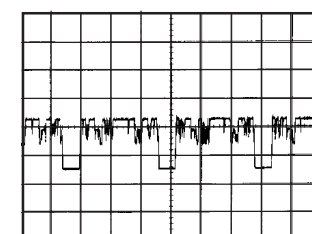
㉖ 1V 20 μ s/div color



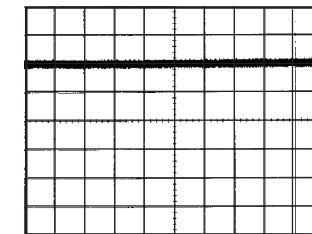
㉙ 1V 1ms/div



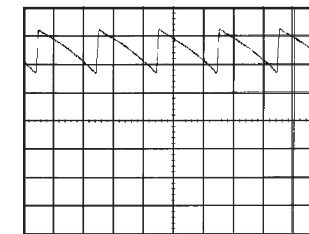
㉚ 1V 20 μ s/div



㉗ 2V 20 μ s/div



㉛ 1V 5 μ s/div

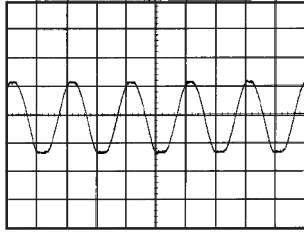


㉜ 1V 10ms/div

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

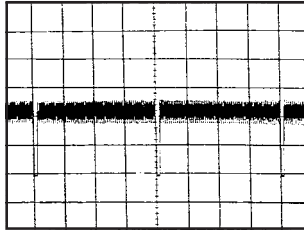
WAVEFORMS

SOUND AMP

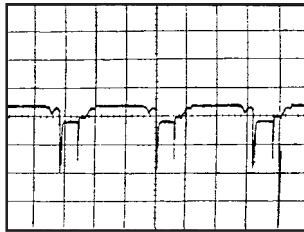


③③ 5V. 500 μ s/div

DEFLECTION

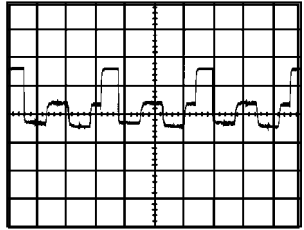


③④ 2V. 5ms/div

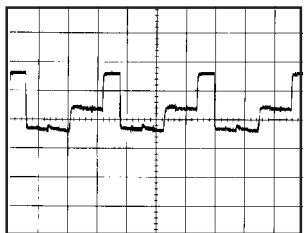


③⑤ 5V. 20 μ s/div

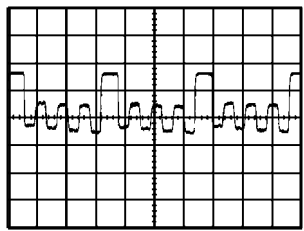
CRT



③⑥ 50V. 20 μ s/div

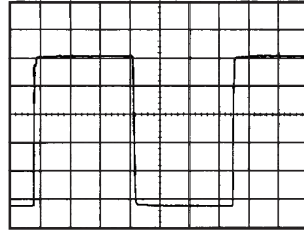


③⑦ 50V. 20 μ s/div

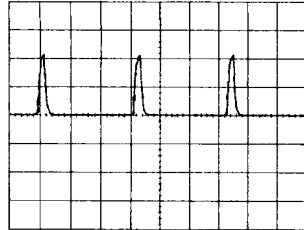


③⑧ 50V. 20 μ s/div

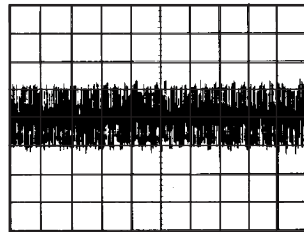
HEAD AMP



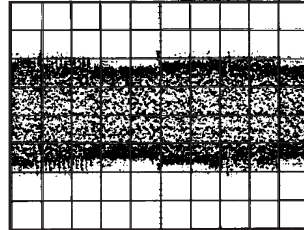
③⑨ REC/PB
500mV. 5ms/div



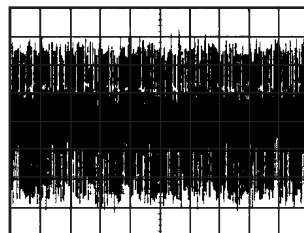
④⑩ REC/PB
1V. 20 μ s/div



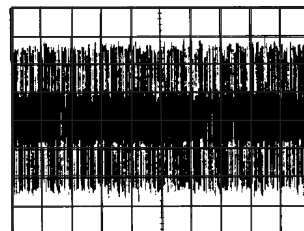
④① PB
500V. 0.1s/div



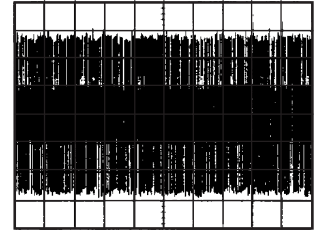
④② REC
50mV. 10 μ s/div



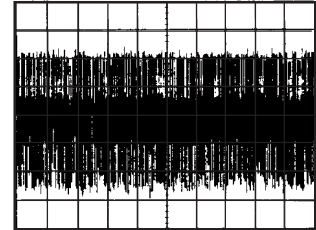
④③ REC/PB
10mV. 1s/div



④④ PB
50mV 50ms/div



④⑤ REC
500mV. 50ms/div



④⑥ PB
50mV. 0.1s/div

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