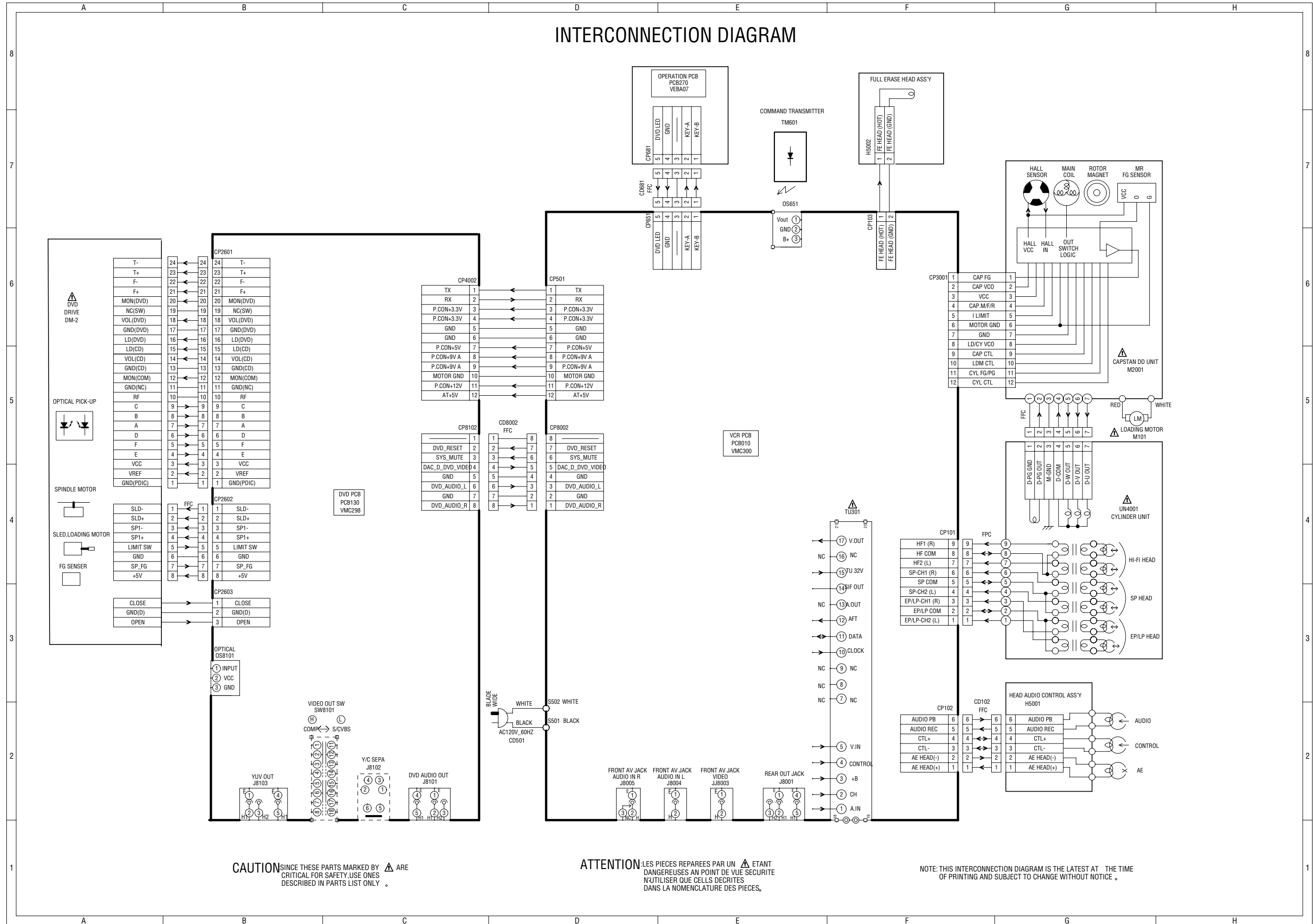


# SECTION 2 CHARTS AND DIAGRAMS

Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

## INTERCONNECTION DIAGRAM



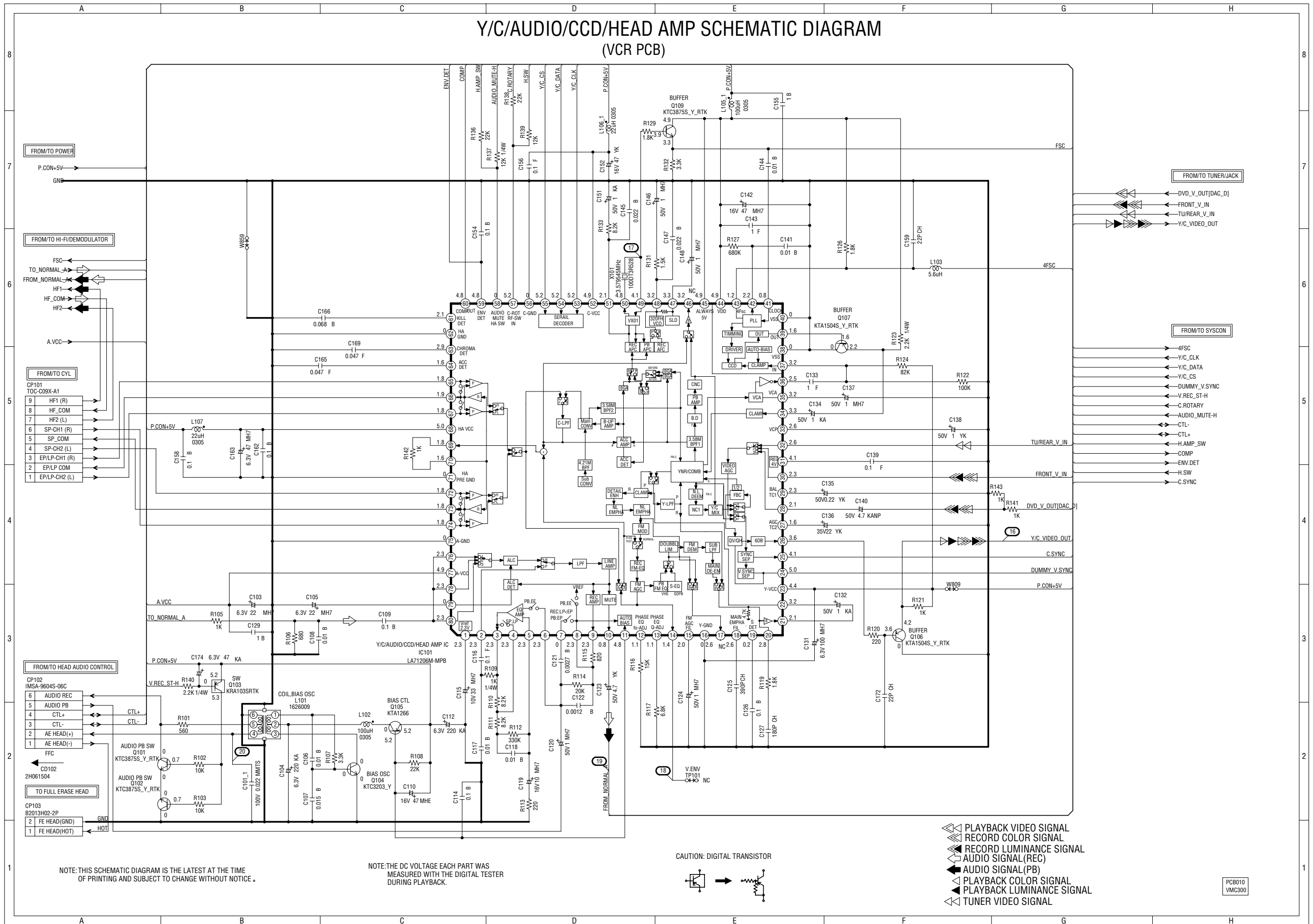
**CAUTION:** SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

**ATTENTION:** LES PIÉCES REPARÉES PAR UN ÉTANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLES DECRIRES DANS LA NOMENCLATURE DES PIÉCES.

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

Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

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



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

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

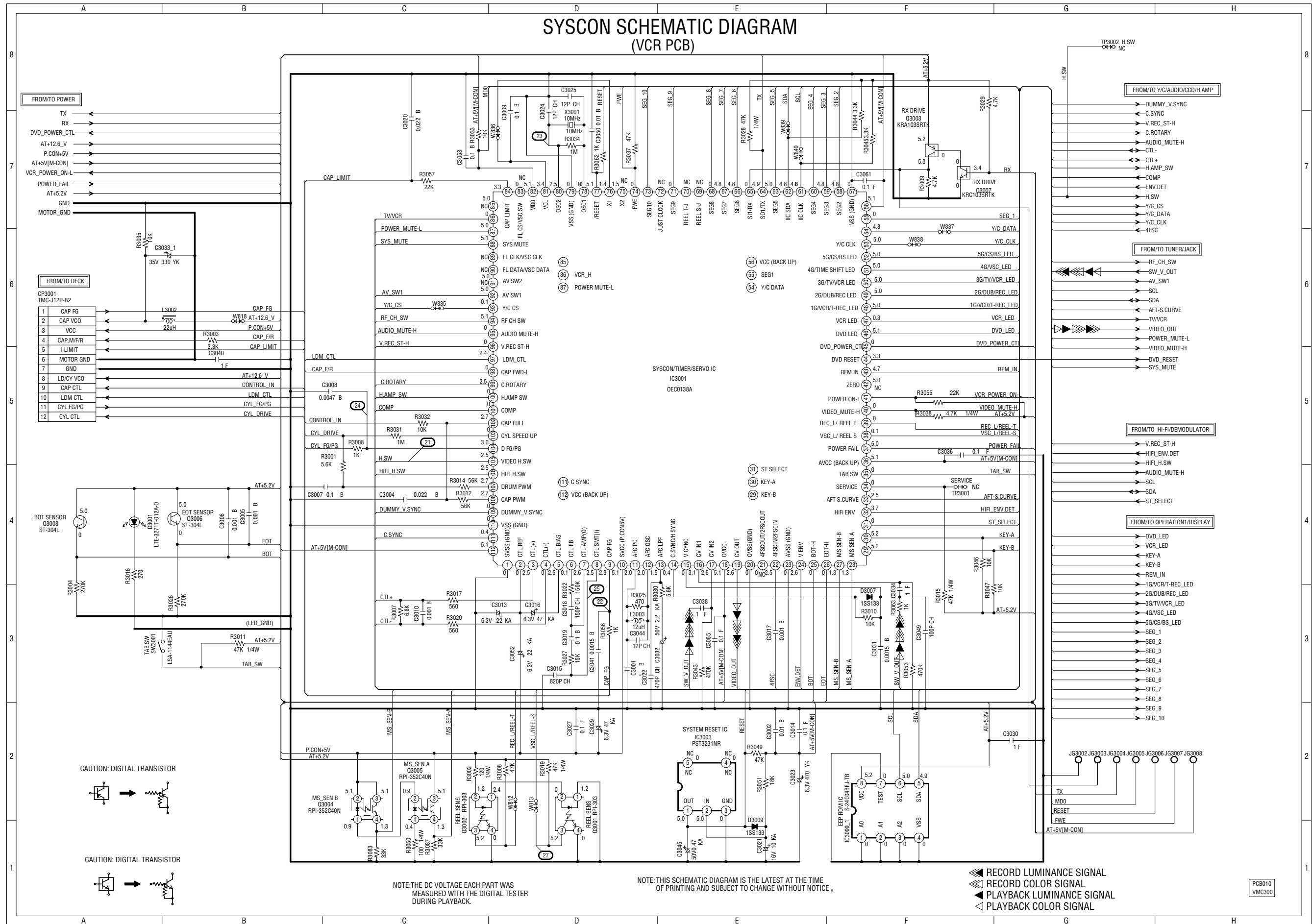
CAUTION: DIGITAL TRANSISTOR



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

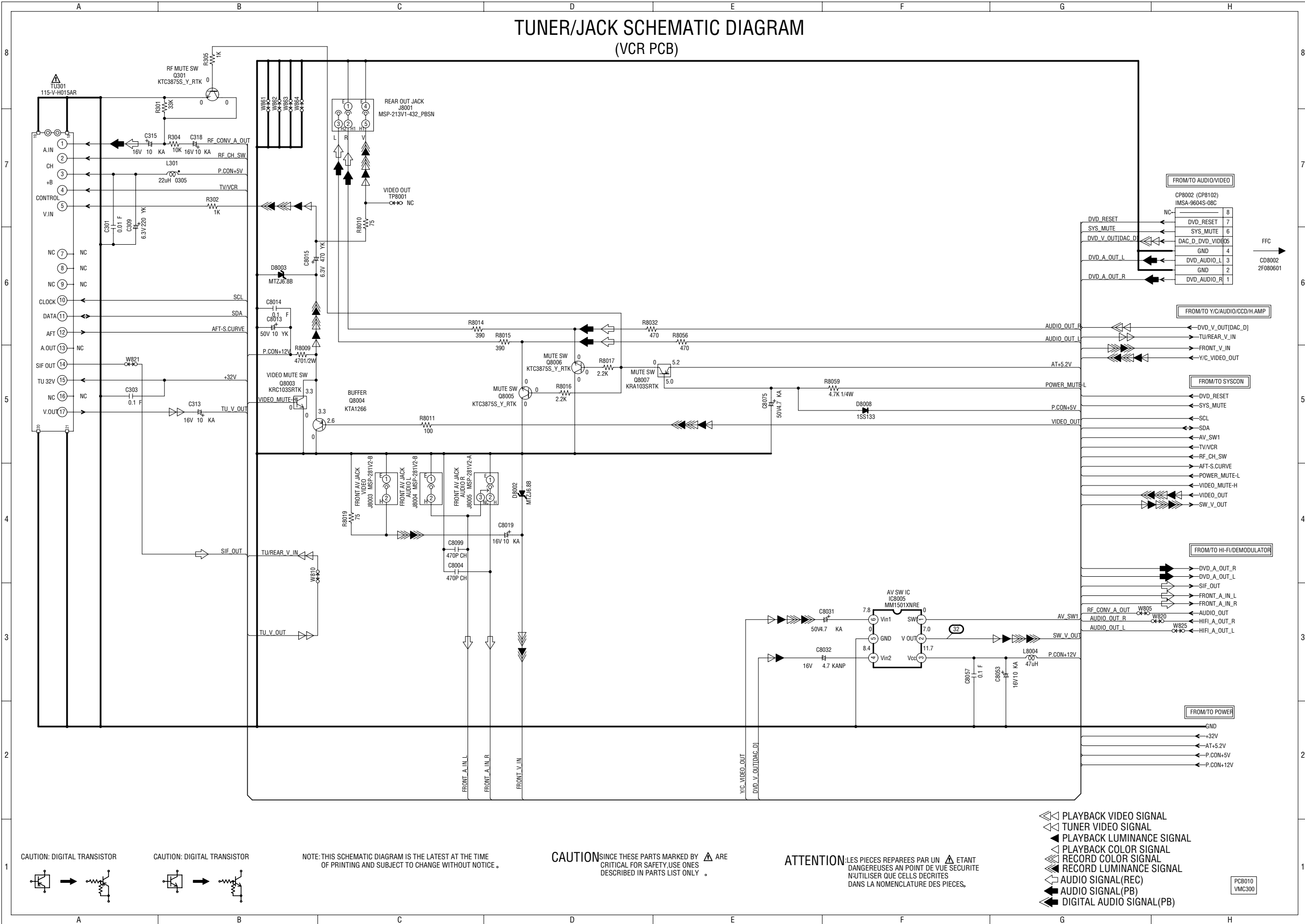
PCB010  
VMC300

Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

# TUNER/JACK SCHEMATIC DIAGRAM (VCR 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.

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

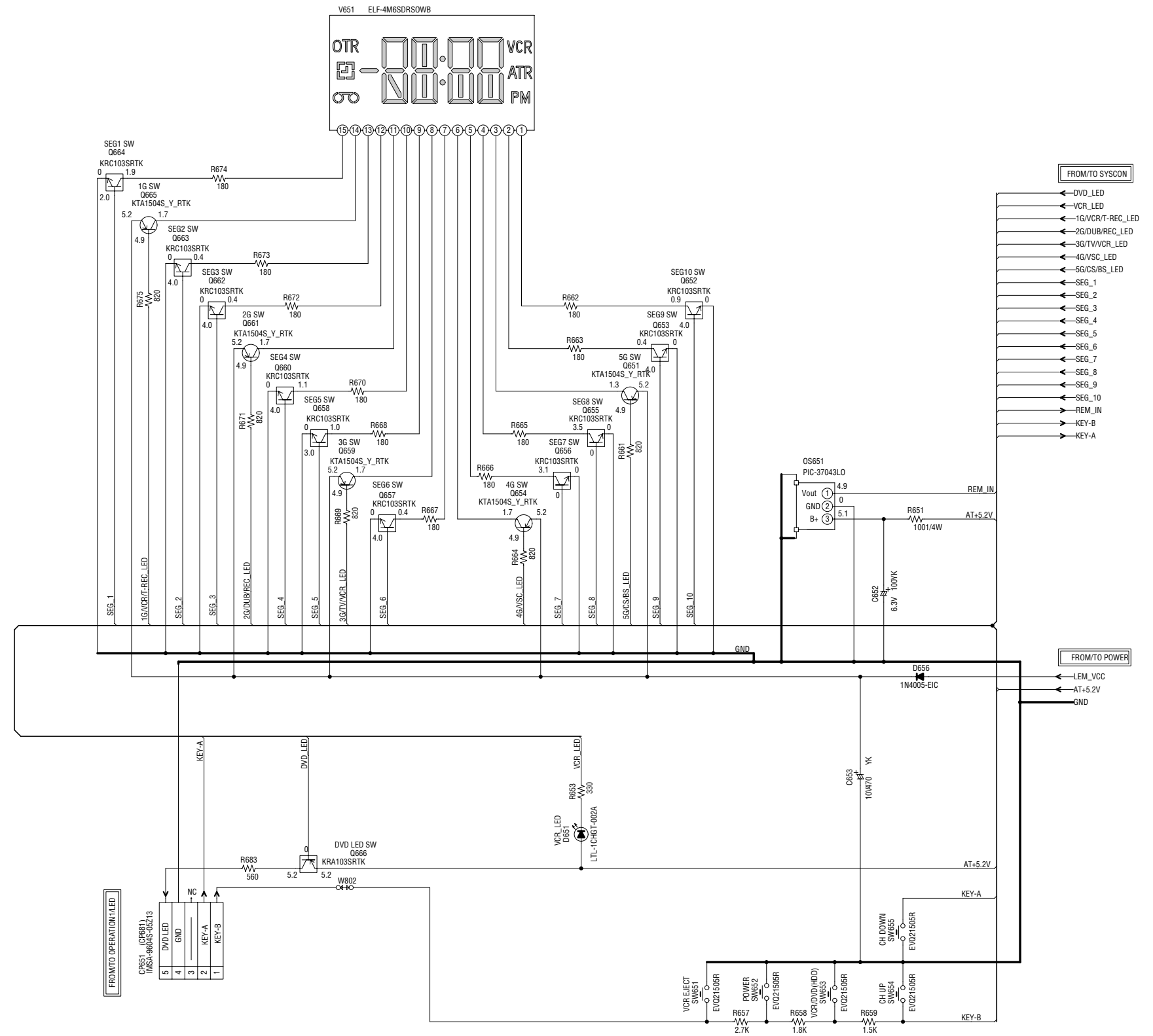
ATTENTION: LES PIÈCES RÉPARÉES PAR UN  $\Delta$  ÉTANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLES DECRITES DANS LA NOMENCLATURE DES PIÈCES.

- $\nabla$  PLAYBACK VIDEO SIGNAL
- $\nabla$  TUNER VIDEO SIGNAL
- $\blacktriangle$  PLAYBACK LUMINANCE SIGNAL
- $\blacktriangle$  PLAYBACK COLOR SIGNAL
- $\blacktriangle$  RECORD COLOR SIGNAL
- $\blacktriangle$  RECORD LUMINANCE SIGNAL
- $\blacktriangle$  AUDIO SIGNAL (REC)
- $\blacktriangle$  AUDIO SIGNAL (PB)
- $\blacktriangle$  DIGITAL AUDIO SIGNAL (PB)

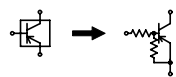
PC8010  
VMC300

Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only.  
When replacing the parts, refer to the Parts List.

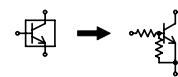
## OPERATION/DISPLAY SCHEMATIC DIAGRAM (VCR PCB)



CAUTION: DIGITAL TRANSISTOR



CAUTION: DIGITAL TRANSISTOR



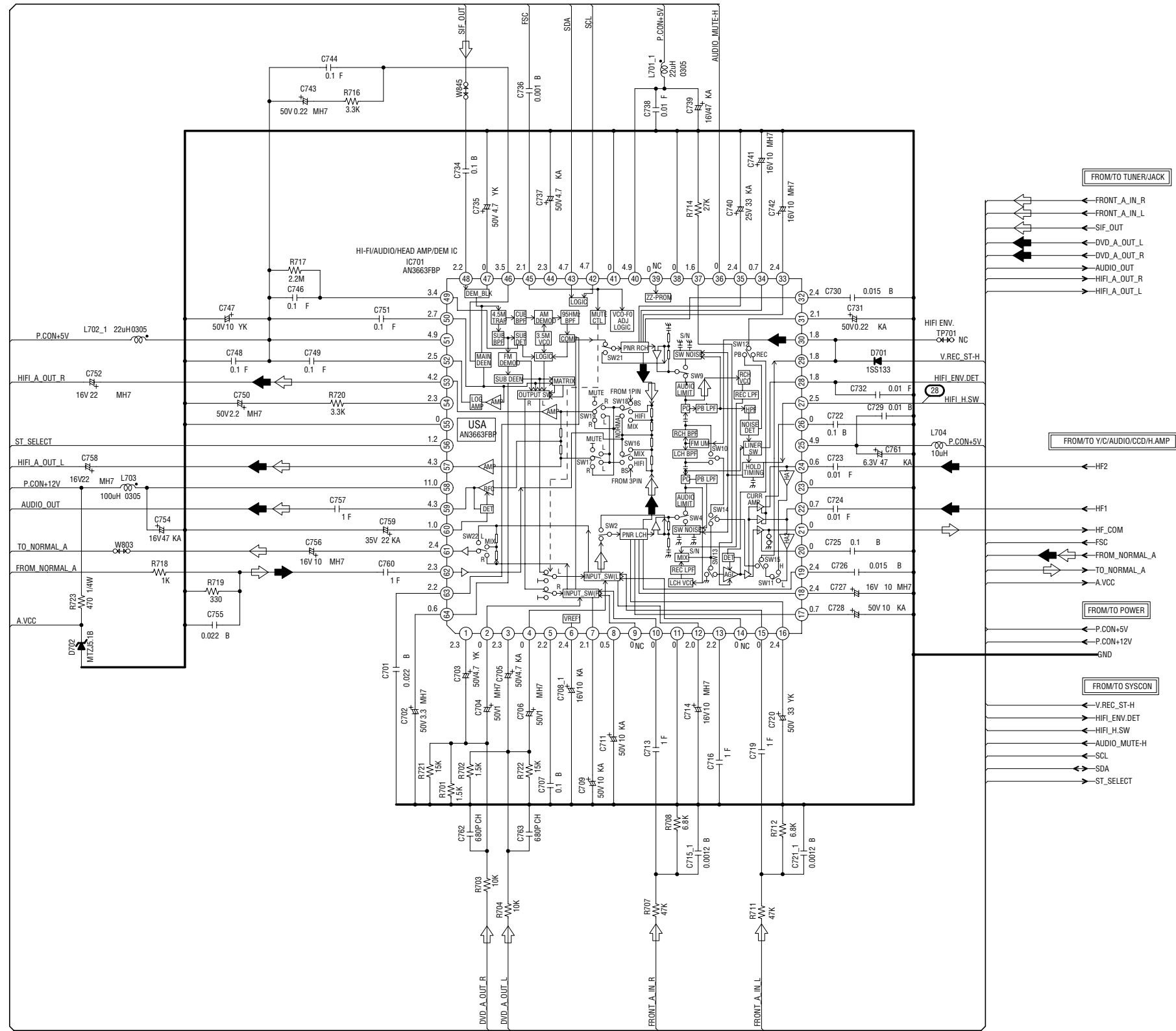
NOTE: THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

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

PCB010  
VMC300

Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

# Hi-Fi/DEMODULATOR SCHEMATIC DIAGRAM (VCR PCB)



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

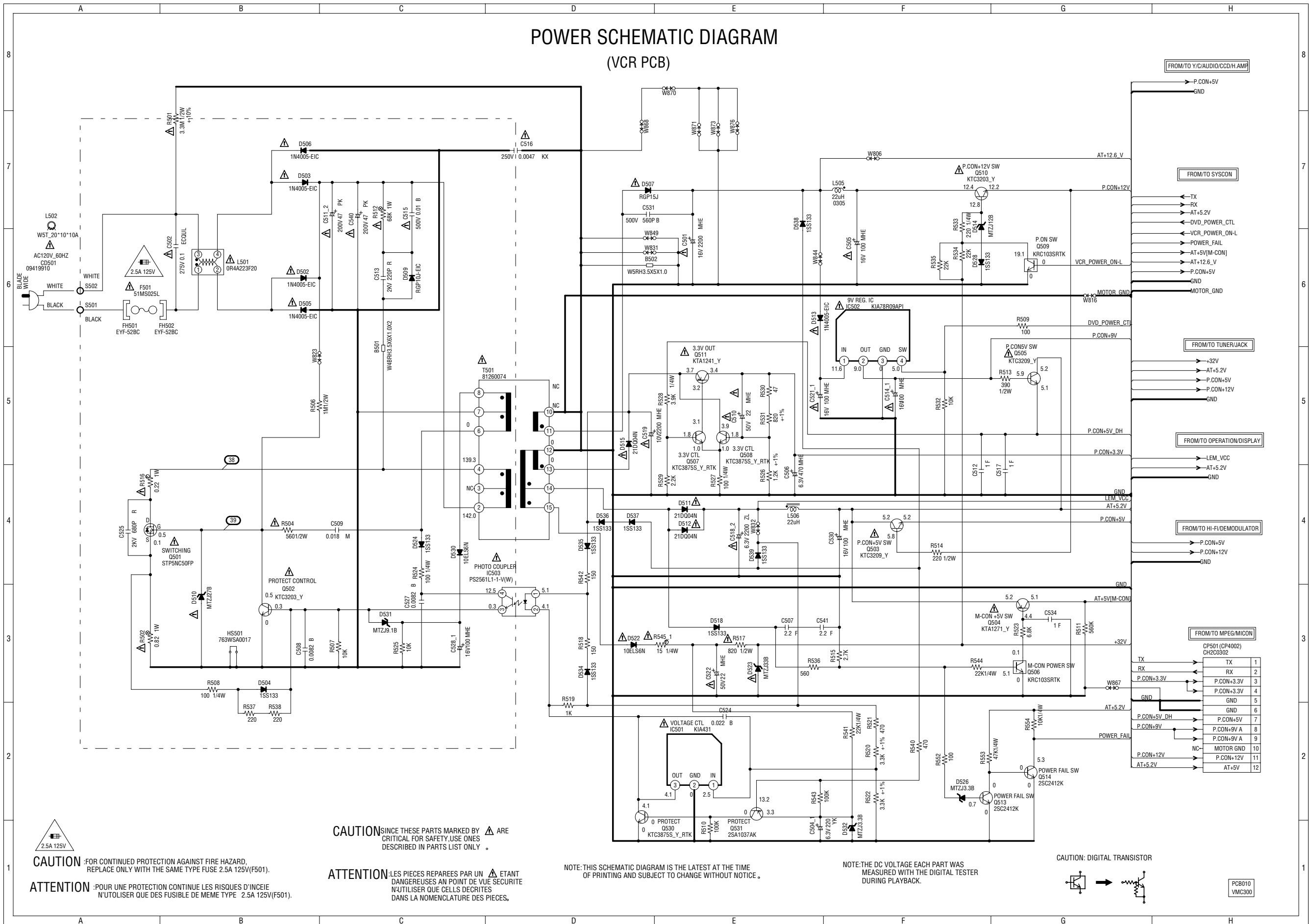
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

◀ AUDIO SIGNAL (REC)  
▶ AUDIO SIGNAL (PB)

PCB010  
VMC300

Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

# POWER SCHEMATIC DIAGRAM (VCR PCB)



**CAUTION** :FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE 2.5A 125V(F501).

**ATTENTION** :POUR UNE PROTECTION CONTINUE LES RISQUES D'INCEIE N'UTILISER QUE DES FUSIBLE DE MEME TYPE 2.5A 125V(F501).

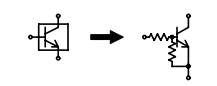
**CAUTION** SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

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

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

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

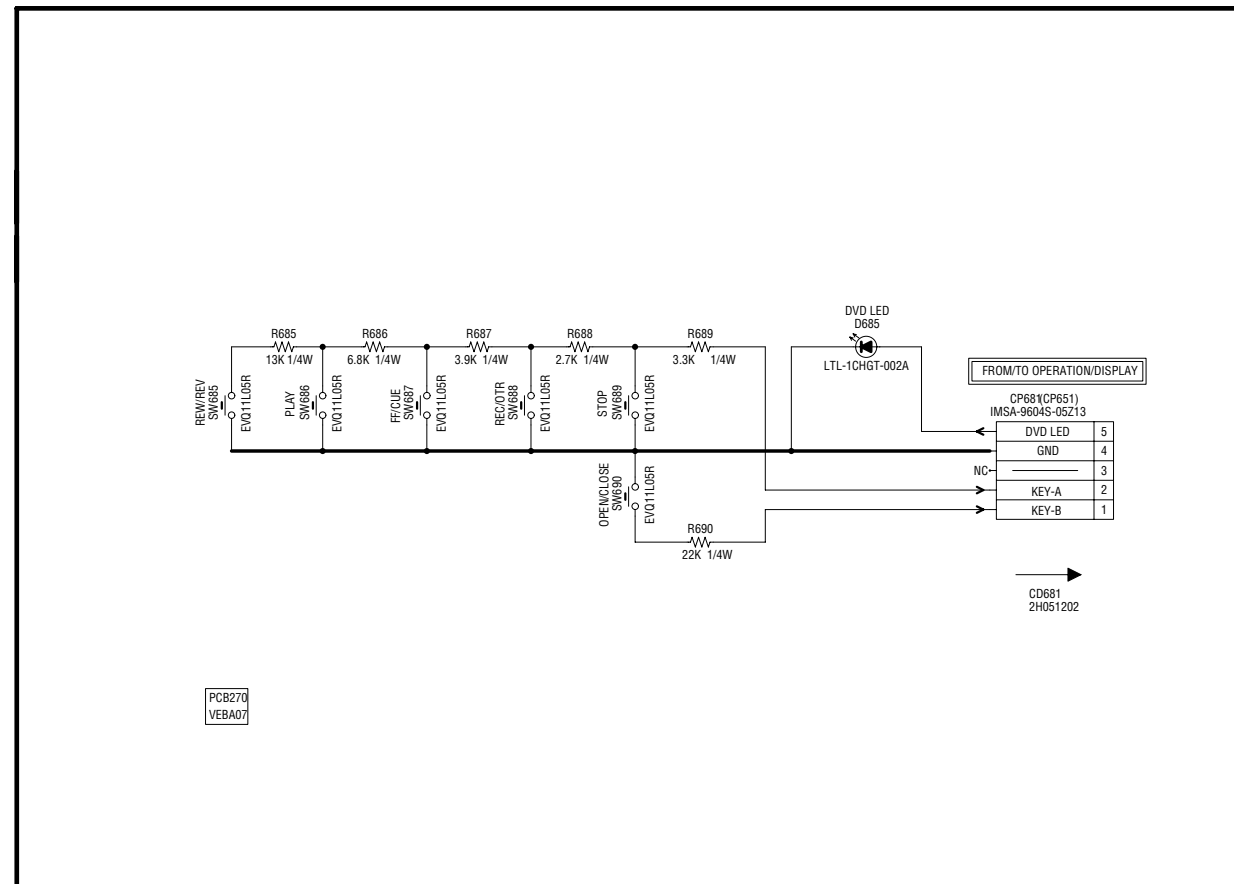
CAUTION: DIGITAL TRANSISTOR



PC8010  
VMC300

Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only.  
When replacing the parts, refer to the Parts List.

## OPERATION/LED SCHEMATIC DIAGRAM (OPERATION PCB)



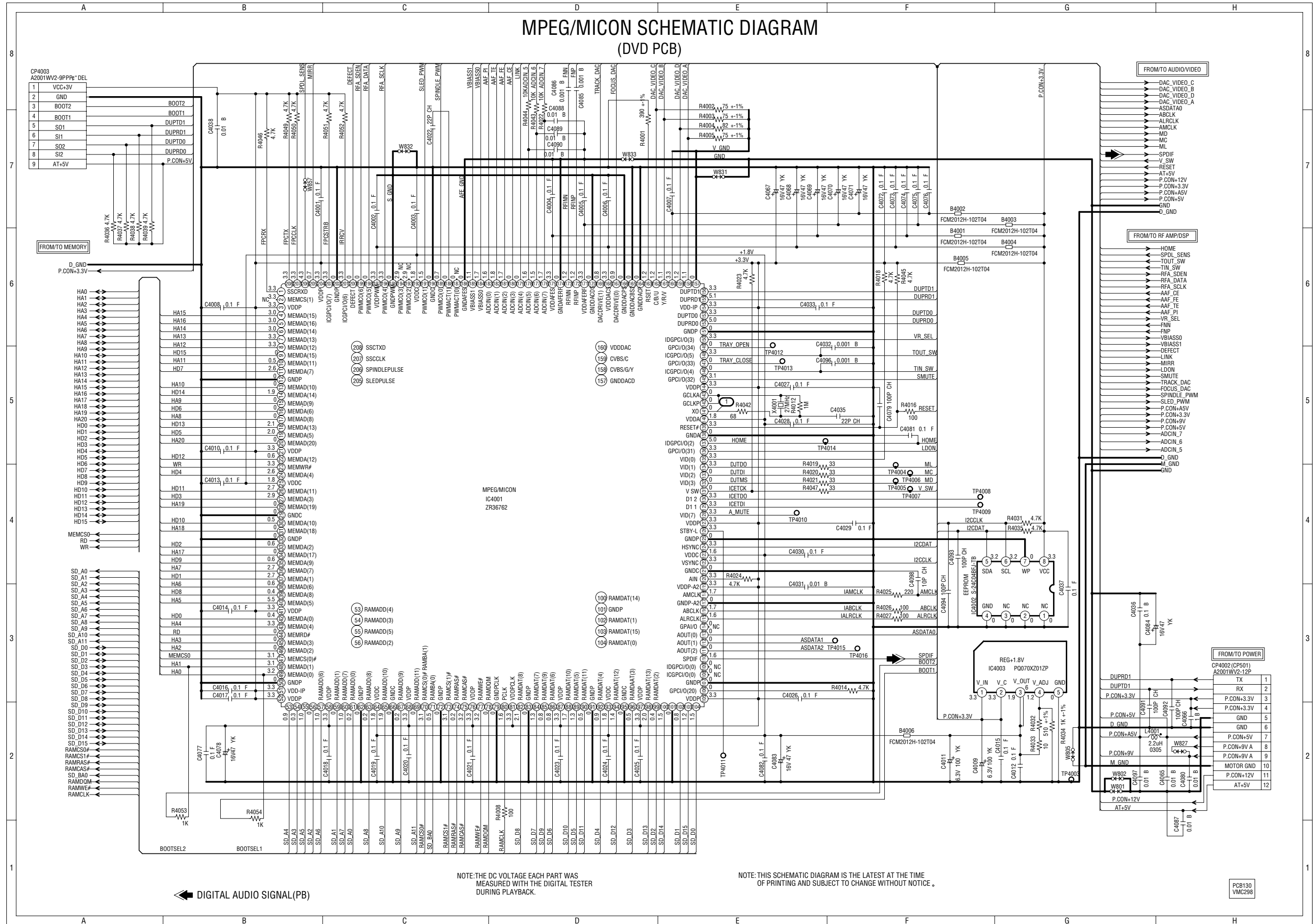
NOTE: THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

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



Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only.  
When replacing the parts, refer to the Parts List.

# MPEG/MICON SCHEMATIC DIAGRAM (DVD PCB)



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

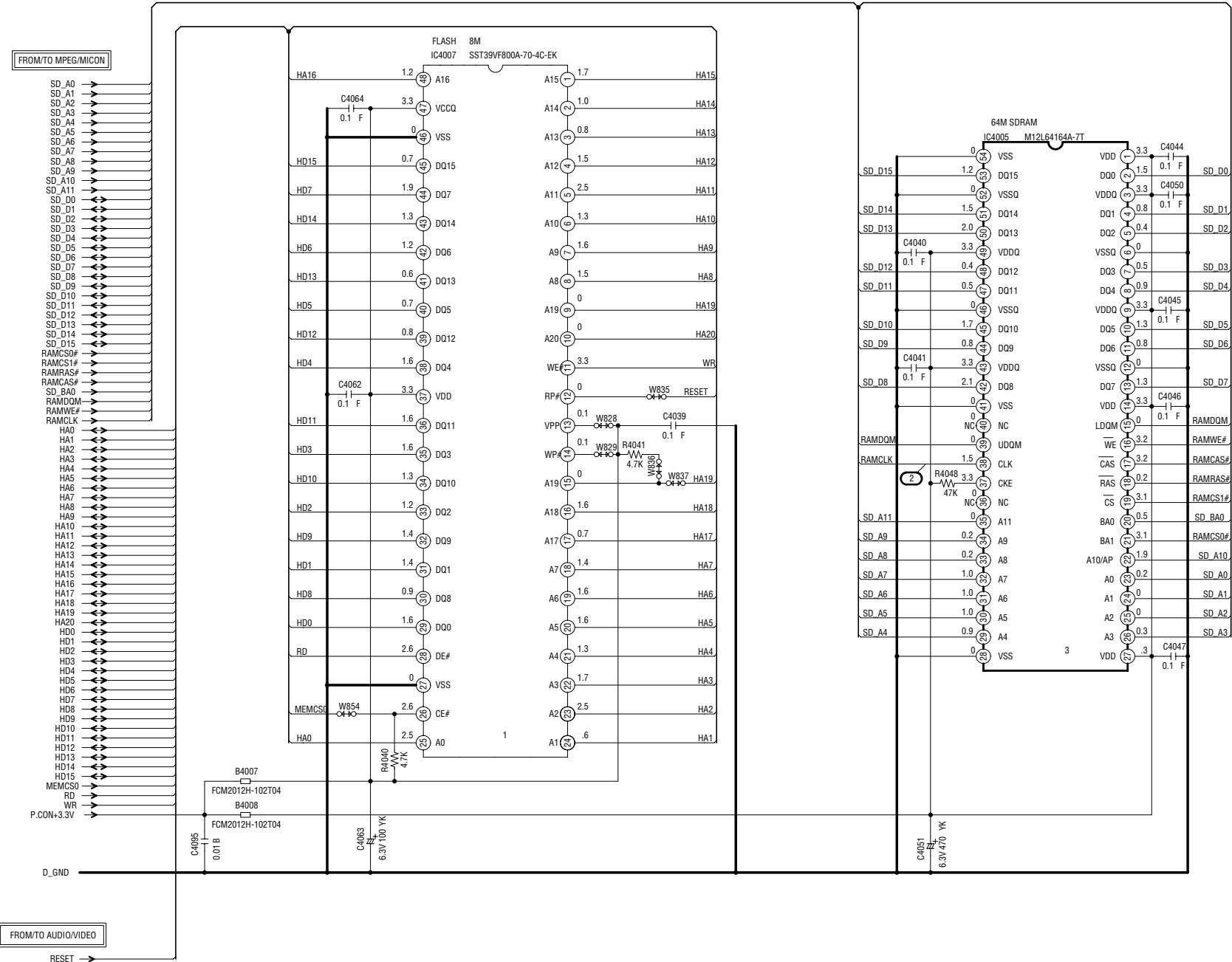
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

DIGITAL AUDIO SIGNAL(PB)

PCB130 VMC298

Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only.  
When replacing the parts, refer to the Parts List.

## MEMORY SCHEMATIC DIAGRAM (DVD PCB)



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

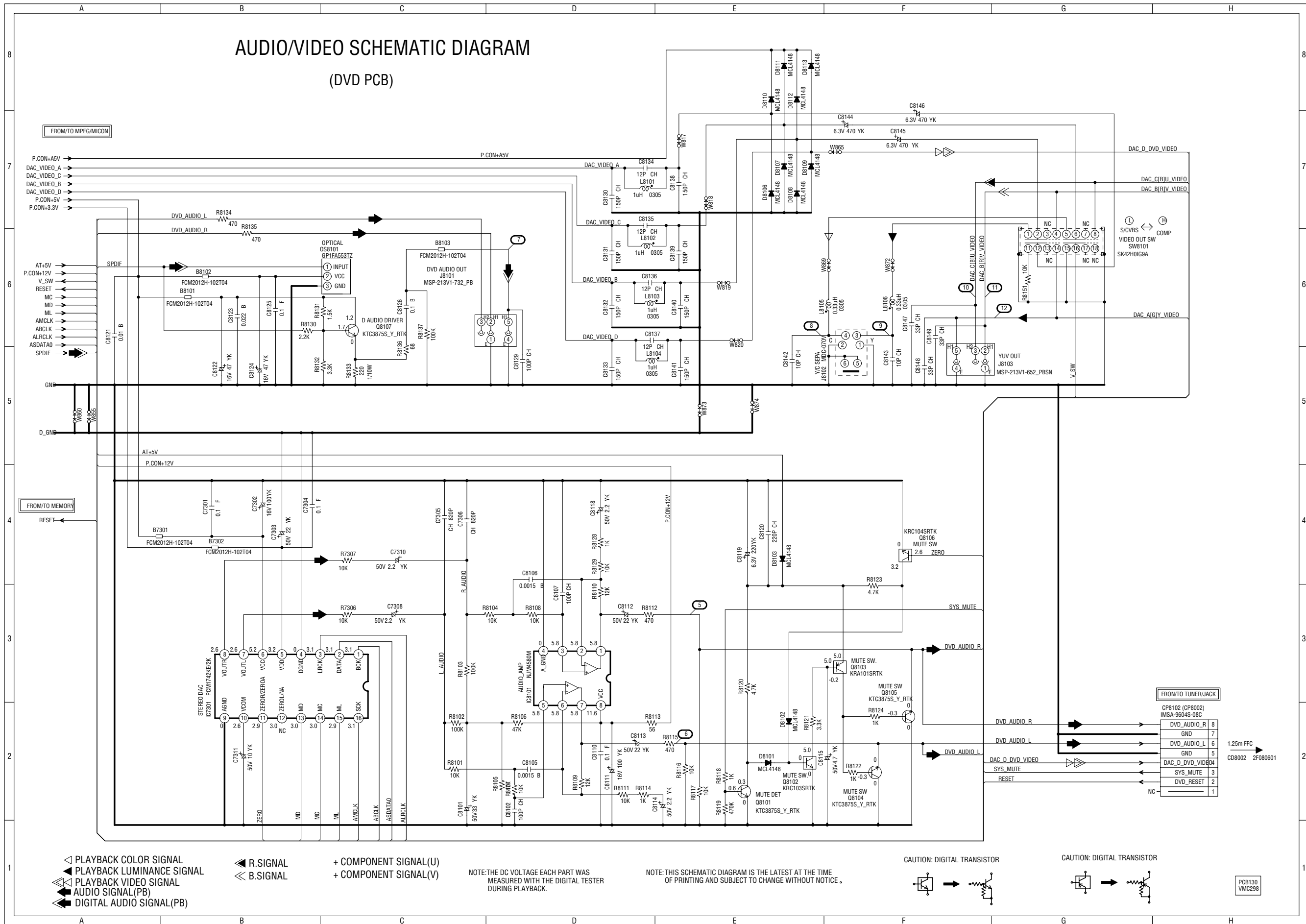
NOTE: THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

PCB130  
VMC298



Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

# AUDIO/VIDEO SCHEMATIC DIAGRAM (DVD PCB)



- ▷ PLAYBACK COLOR SIGNAL
- ◁ PLAYBACK LUMINANCE SIGNAL
- ◁ PLAYBACK VIDEO SIGNAL
- ◁ AUDIO SIGNAL (PB)
- ◁ DIGITAL AUDIO SIGNAL (PB)

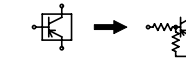
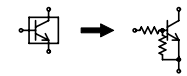
- ◁ R.SIGNAL
- ◁ B.SIGNAL
- + COMPONENT SIGNAL(U)
- + COMPONENT SIGNAL(V)

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.

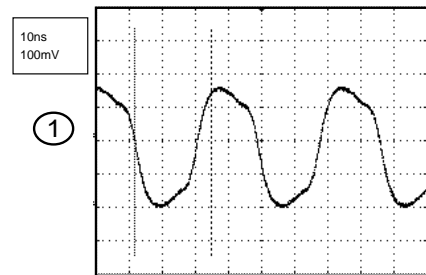
CAUTION: DIGITAL TRANSISTOR

CAUTION: DIGITAL TRANSISTOR

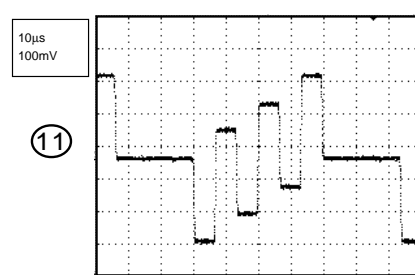
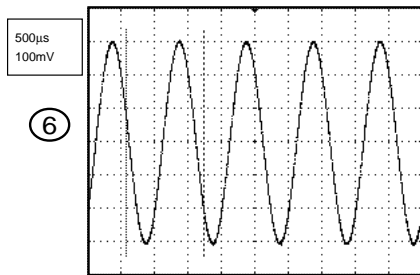


PCB130  
VMC298

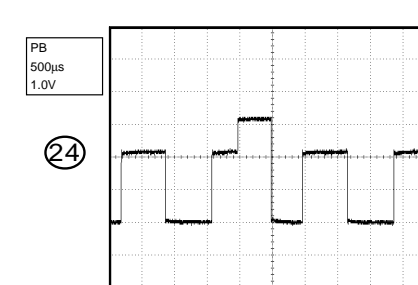
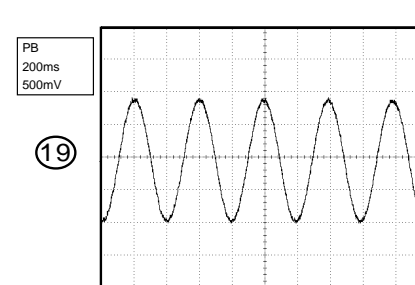
**MPEG/MICON**



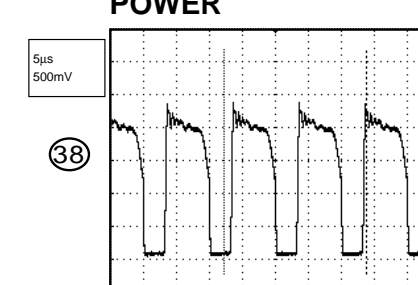
**WAVEFORMS**



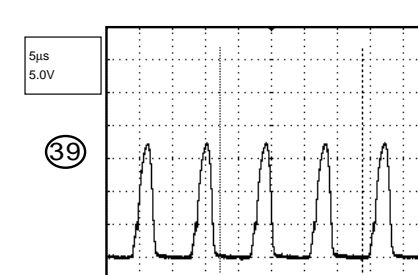
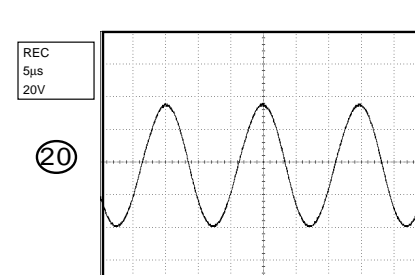
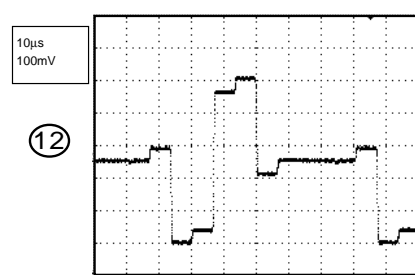
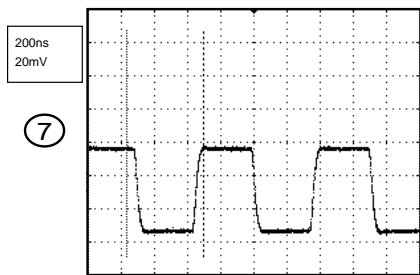
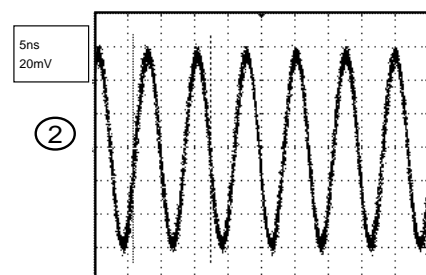
**WAVEFORMS**



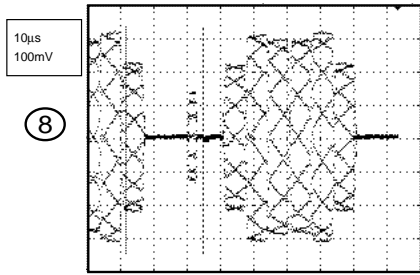
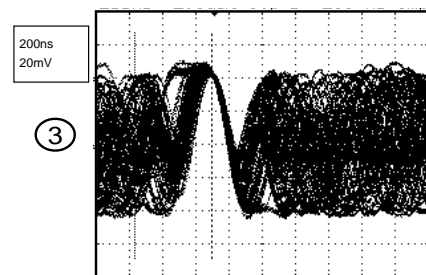
**POWER**



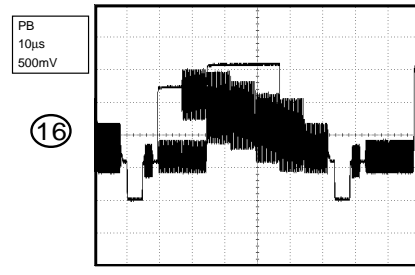
**MEMORY**



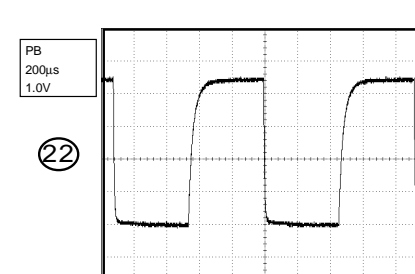
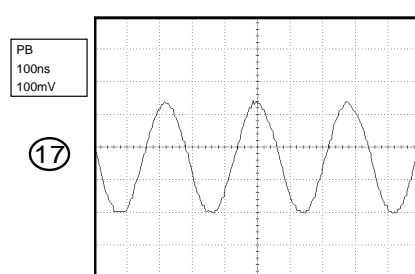
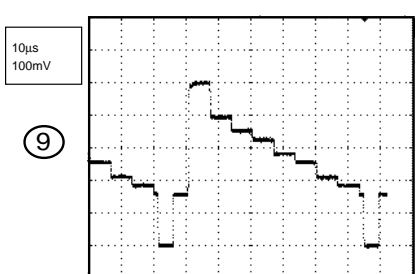
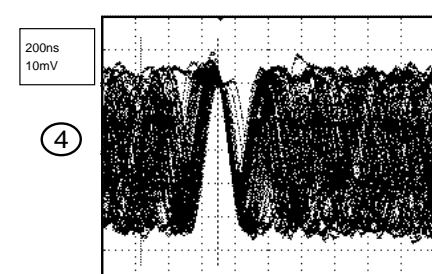
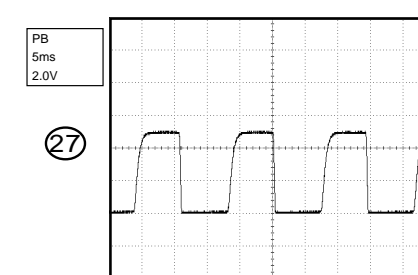
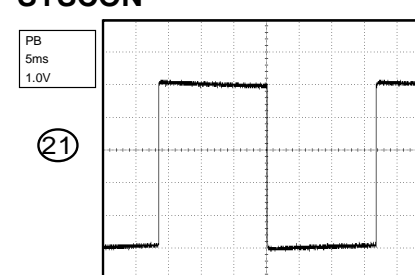
**RF AMP/DSP**



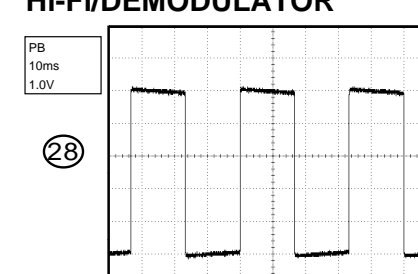
**Y/C/AUDIO/CCD/HEAD AMP**



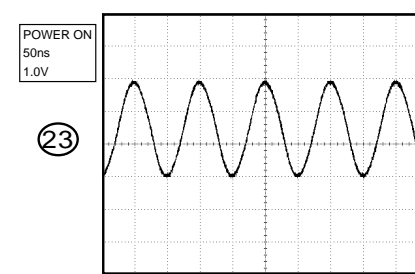
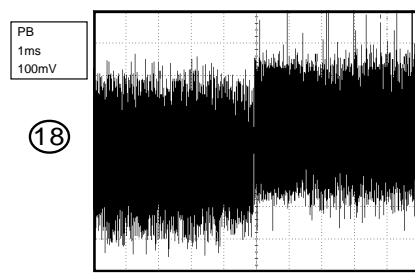
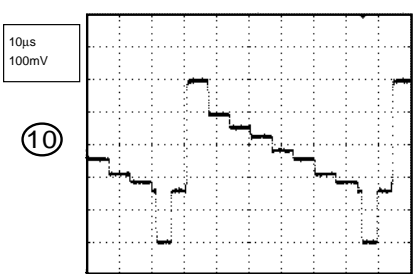
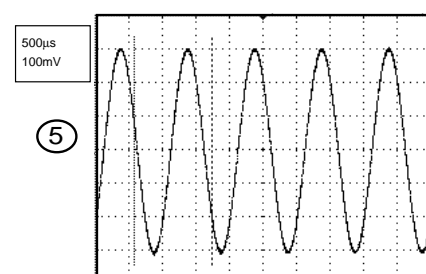
**SYSCON**



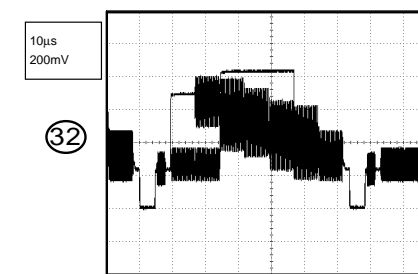
**Hi-Fi/DEMODULATOR**



**AUDIO/VIDEO**



**TUNER/JACK**



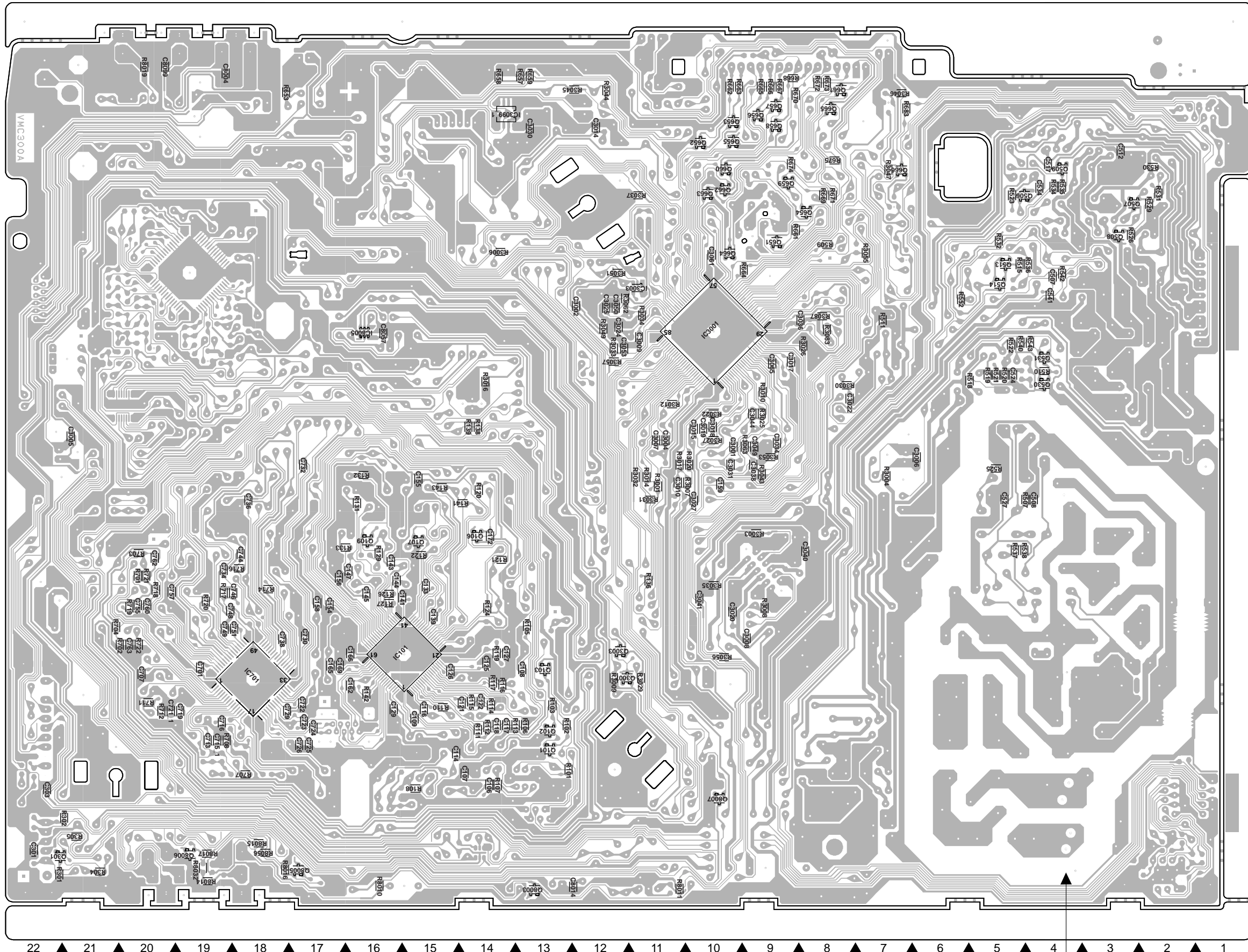
NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

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

**PRINTED CIRCUIT BOARDS**  
**VCR (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.



**COMPONENT PARTS LOCATION GUIDE**

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
<b>CAPACITOR</b>					
C103	15M	C739	18I	D701	14H
C104	14N	C740	18J	D702	16O
C105	15M	C741	18K	D3001	14H
C106	14N	C742	18K	D3007	9H
C107	14N	C743	18J	D3009	12E
C108	13L	C744	18J	D8002	21B
C109	15M	C746	18K	D8003	12P
C110	15N	C747	19J	D8008	10N
C112	15O	C748	19K		
C114	15N	C749	19L	<b>FUSE</b>	
C115	14N	C750	19K	F501	5O
C116	15M	C751	18L		
C117	14M	C752	19J	<b>IC</b>	
C118	14M	C753	19J	IC101	15L
C119	14M	C754	20K	IC501	5G
C120	13N	C755	20K	IC502	4E
C121	14M	C756	20K	IC503	5G
C122	14M	C757	20K	IC504	18L
C123	13M	C758	19K	IC3001	10F
C124	14M	C759	20K	IC3003	11B
C125	14L	C760	20K	IC3099	14B
C126	15L	C761	20J	IC8005	16F
C127	14L	C762	20L		
C129	16M	C763	20L	<b>COIL</b>	
C131	14K	C101_1	13N	L101	13N
C132	14L	C3001	10H	L102	15N
C133	15K	C3002	12F	L103	9I
C134	15J	C3003	11H	L103_1	17K
C135	15J	C3004	21H	L301	21O
C136	15K	C3005	6I	L501	6N
C137	15I	C3006	11H	L505	3E
C138	15K	C3007	9L	L506	2E
C139	15K	C3008	11F	L703	19J
C140	15I	C3009	11I	L704	17L
C141	16K	C3010	11I	L105_1	16J
C142	15J	C3011	7C	L106_1	15I
C143	16J	C3012	12C	L3002	10L
C144	16K	C3013	10H	L3003	9H
C145	16K	C3014	7G	L701_1	18H
C146	16I	C3015	10H	L702_1	18I
C147	16K	C3016	10H	L8004	17F
C148	16I	C3017	10K		
C151	17J	C3018	12E	<b>TRANSISTOR</b>	
C152	17J	C3019	8G	OS651	11A
C154	17K	C3020	13C	Q101	13N
C155	15I	C3021	12F	Q102	13M
C156	17K	C3022	12F	Q103	13L
C158	17K	C3023	10I	Q104	14N
C159	10I	C3024	10I	Q105	15N
C162	16M	C3025	7G	Q106	14J
C163	17L	C3026	7G	Q107	15J
C165	17L	C3027	9H	Q109	16J
C166	16L	C3028	8F	Q301	22P
C169	17L	C3029	8J	Q501	5K
C172	14J	C3030	9I	Q502	3L
C174	13M	C3031	8J	Q503	7M
C301	22O	C3032	10K	Q504	4D
C303	22N	C3033	9H	Q505	4C
C309	21O	C3034	12E	Q506	5D
C313	15P	C3035	9H	Q507	3D
C315	21P	C3036	12F	Q508	3E
C318	21P	C3037	7G	Q509	4C
C501	3F	C3038	12G	Q510	4C
C502	4N	C3039	10E	Q511	3D
C505	3C	C3040	9G	Q513	5E
C506	3D	C504_1	6H	Q514	5E
C507	4E	C511_2	4L	Q514_1	4G
C508	4I	C514_1	4D	Q530	5G
C509	5K	C518_2	2G	Q531	4G
C510	2D	C521_1	4D	Q651	9E
C512	3C	C528_1	5I	Q652	10C
C515	3J	C708_1	20L	Q653	10C
C516	3K	C715_1	19M	Q654	8D
C517	4C	C721_1	20M	Q655	10C
C519	2F	C8004	19B	Q656	9B
C522	6H	C8013	13P	Q657	9B
C524	5G	C8014	12P	Q658	9C
C525	3K	C8015	14P	Q659	9D
C527	5I	C8019	20B	Q660	10C
C530	2E	C8031	16F	Q661	8B
C531	3F	C8032	16F	Q662	10D
C534	4D	C8053	16G	Q663	10D
C540	4M	C8057	16F	Q664	10E
C541	4F	C8075	10N	Q665	8B
C652	11B	C8099	20B	Q666	7C
C653	1C	C3033_1	9J	Q3001	17E
C701	19L	CD501	10	Q3002	12E
C702	20L			Q3003	12L
C703	20K			Q3004	9D
C704	20J	<b>DIODE</b>		Q3005	10E
C705	20L	D502	6L	Q3006	22H
C706	20L	D503	5L	Q3007	12L
C707	20L	D504	5J	Q3008	7I
C709	20M	D505	6M	Q8003	13P
C711	20M	D506	5N	Q8004	11P
C713	19N	D507	3F	Q8005	17P
C714	19M	D509	3K	Q8006	19P
C716	19M	D510	3L	Q8007	10O
C717	19M	D511	2H		
C719	19M	D512	2G	<b>RESISTOR</b>	
C720	17N	D513	4E	R101	13N
C722	17M	D514	5C	R102	13M
C723	17M	D515	2G	R103	13M
C724	17M	D518	5E	R105	13L
C725	17N	D523	4G	R106	13M
C726	17N	D524	4J	R107	14N
C727	17N	D526	6E	R108	15N
C728	17N	D528	5C	R109	15M
C729	18M	D530	5I	R110	15M
C730	17L	D531	5I	R111	14M
C731	18K	D532	4F	R112	14M
C732	17I	D534	5G	R113	14M
C733	19K	D535	5E	R114	14M
C734	19K	D536	4D	R115	14M
C735	18K	D537	4D	R116	14M
C736	18I	D538	4E	R117	14M
C737	18I	D539	3E	R119	14L
C738	18L	D651	17A	R120	14I
		D656	1C	R121	14J

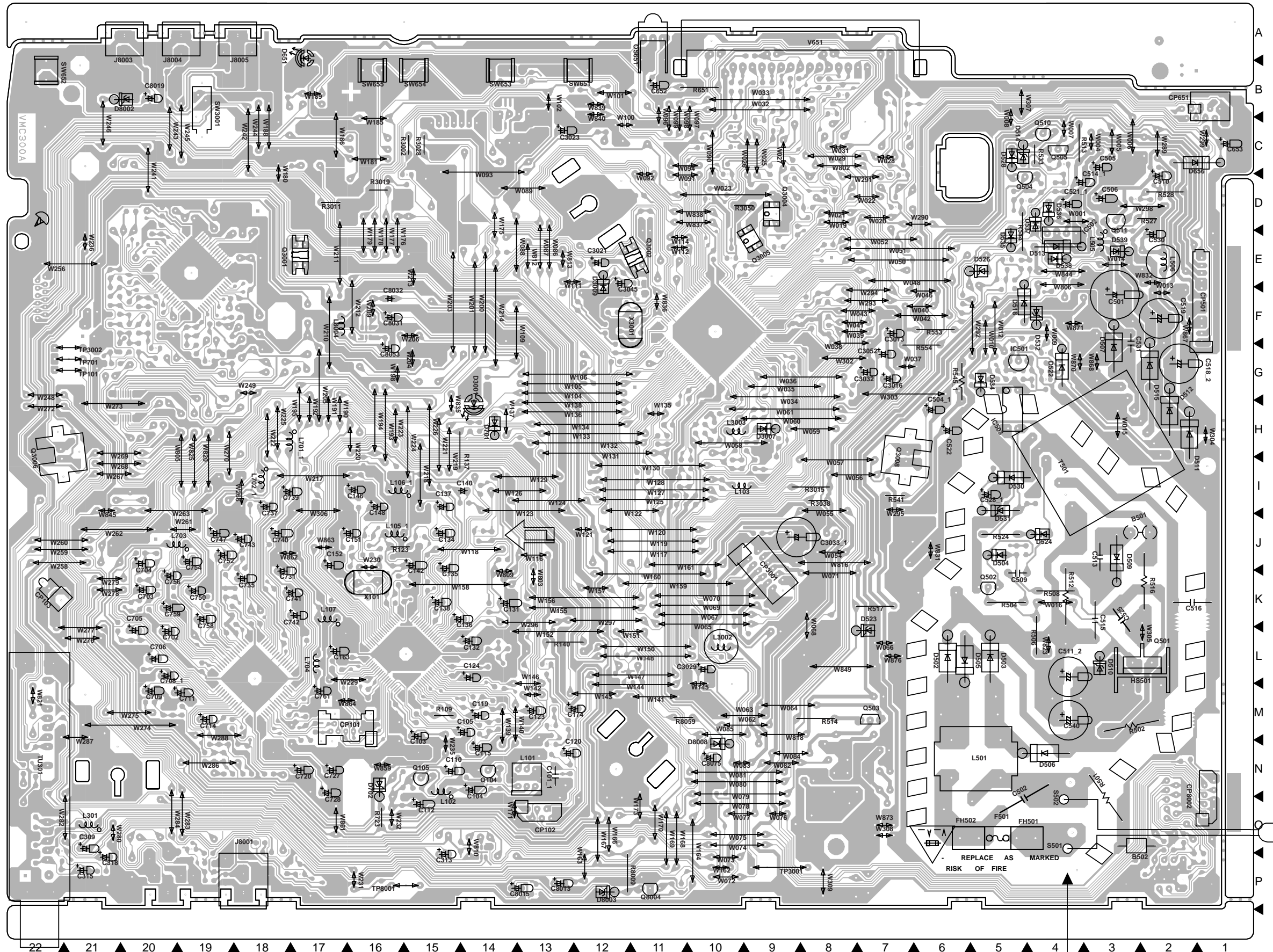
**DANGEROUS VOLTAGE**



PRINTED CIRCUIT BOARDS

VCR (INSERTED PARTS)  
SOLDER SIDE

REF.NO.	LOCATION	REF.NO.	LOCATION
R122	15J	R3019	16D
R123	15J	R3020	10I
R124	14K	R3022	10H
R126	16K	R3025	9H
R127	16K	R3026	8G
R129	16J	R3027	10H
R131	16I	R3028	15C
R132	16I	R3029	11L
R133	17J	R3030	8G
R136	11K	R3031	11I
R137	15H	R3032	11I
R138	14H	R3033	12G
R139	14H	R3034	11F
R140	12L	R3035	10K
R141	14I	R3037	11D
R142	16M	R3038	9I
R143	15I	R3043	9I
R301	22P	R3044	12B
R302	21O	R3045	12B
R304	21P	R3046	7C
R305	21O	R3047	7B
R501	3N	R3049	12F
R502	2M	R3050	9D
R504	5K	R3051	12E
R506	4K	R3053	9I
R507	5I	R3055	7E
R508	4K	R3056	10L
R509	8E	R3057	12G
R510	4G	R3062	12F
R511	7F	R3063	9H
R512	4J	R3083	8F
R513	4C	R3087	8F
R514	8M	R545_1	6G
R515	5E	R8009	12P
R516	2J	R8010	16P
R517	7K	R8011	11P
R518	5G	R8014	19P
R519	5G	R8015	18O
R520	5G	R8016	18P
R521	5G	R8017	19P
R522	5G	R8019	20B
R523	5D	R8032	19P
R524	5J	R8056	18P
R525	5I	R8059	10M
R526	3E		
R527	2D	<b>SWITCH</b>	
R528	2D	SW651	12B
R529	2D	SW652	22B
R530	2C	SW653	14B
R531	2D	SW654	15B
R532	5E	SW655	16B
R533	4C	SW3001	19C
R534	4D		
R535	4D	<b>TEST POINT</b>	
R536	4E	TP101	21G
R537	5J	TP701	21G
R538	5J	TP3001	8P
R540	5G	TP3002	21G
R541	7I	TP8001	15P
R542	4E		
R543	4G	<b>OTHER</b>	
R544	5D	B502	2O
R552	6F	CP101	16M
R553	6F	CP102	13O
R554	6G	CP103	22K
R651	10B	CP501	1B
R653	18B	CP651	1F
R657	13B	CP3001	9J
R658	14B	CP8002	10J
R659	13B	FH501	5O
R661	9E	FH502	3L
R662	10B	H5501	18P
R663	10B	J8001	20A
R664	9E	J8003	20A
R665	9E	J8004	19A
R666	9B	J8005	18A
R667	9B	JG3002	14C
R668	9B	JG3003	15C
R669	8D	JG3004	14D
R670	9B	JG3005	16D
R671	8D	JG3006	12F
R672	8B	JG3007	14E
R673	8B	JG3008	14D
R674	9C	S501	4O
R675	8C	S502	4O
R683	7B	T501	4I
R701	20K	TU301	22P
R702	20L	V651	10B
R703	20J	X101	16K
R704	21L	X3001	12F
R707	18N		
R708	19N		
R711	20M		
R712	20M		
R714	18K		
R716	18J		
R717	19K		
R718	20K		
R719	20K		
R720	19K		
R721	20K		
R722	20L		
R723	16O		
R3001	11I		
R3002	15C		
R3003	9J		
R3004	7I		
R3006	14E		
R3007	10I		
R3008	9K		
R3009	12L		
R3010	9G		
R3011	17D		
R3012	11H		
R3014	11I		
R3015	8I		
R3016	14G		
R3017	11I		

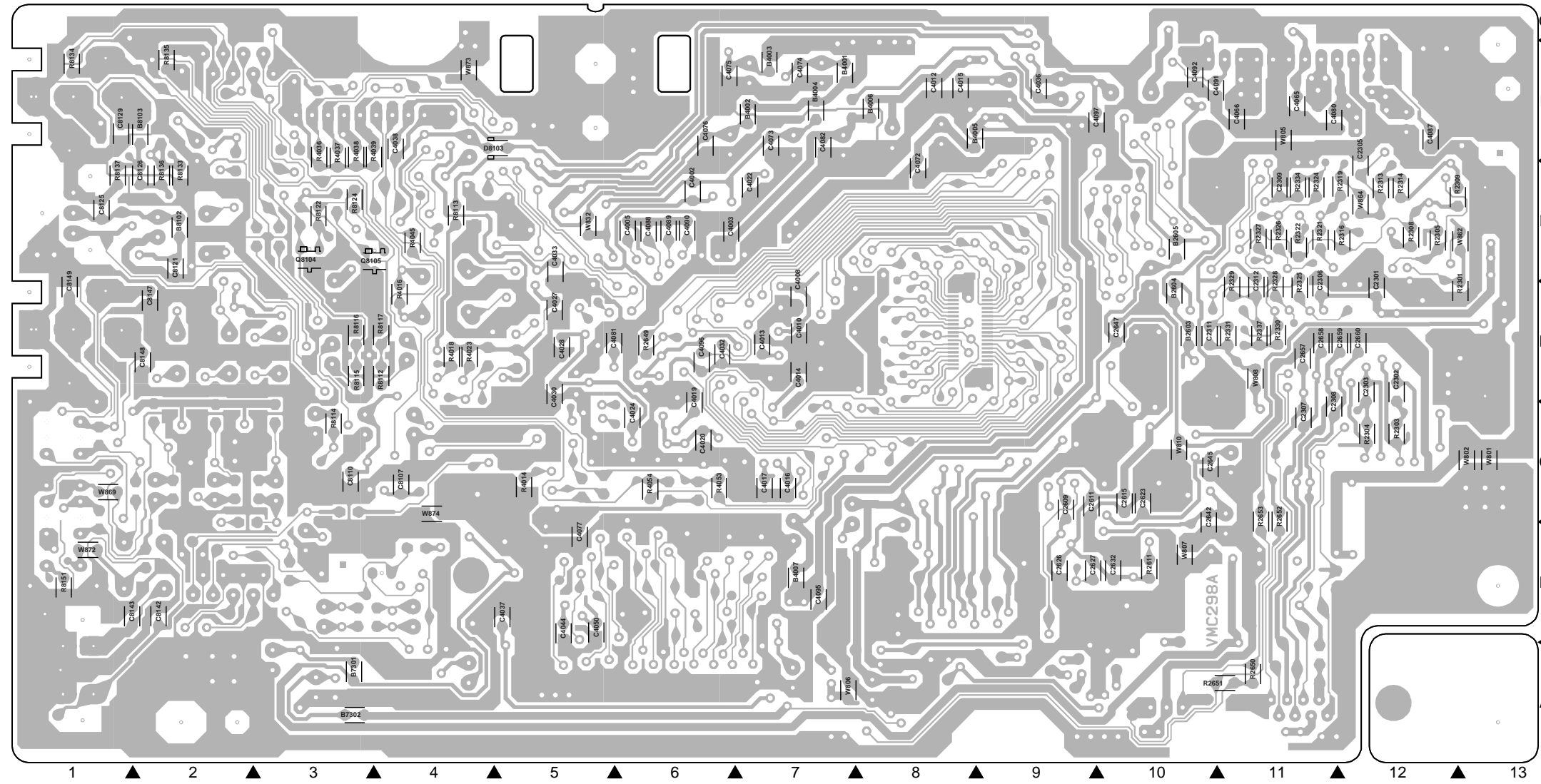


**DANGEROUS VOLTAGE**

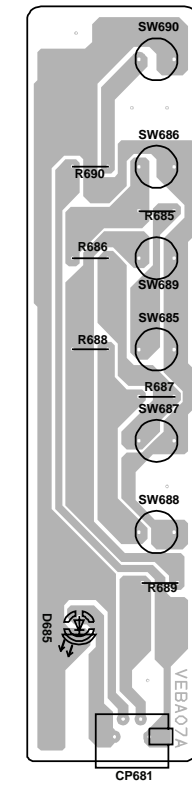




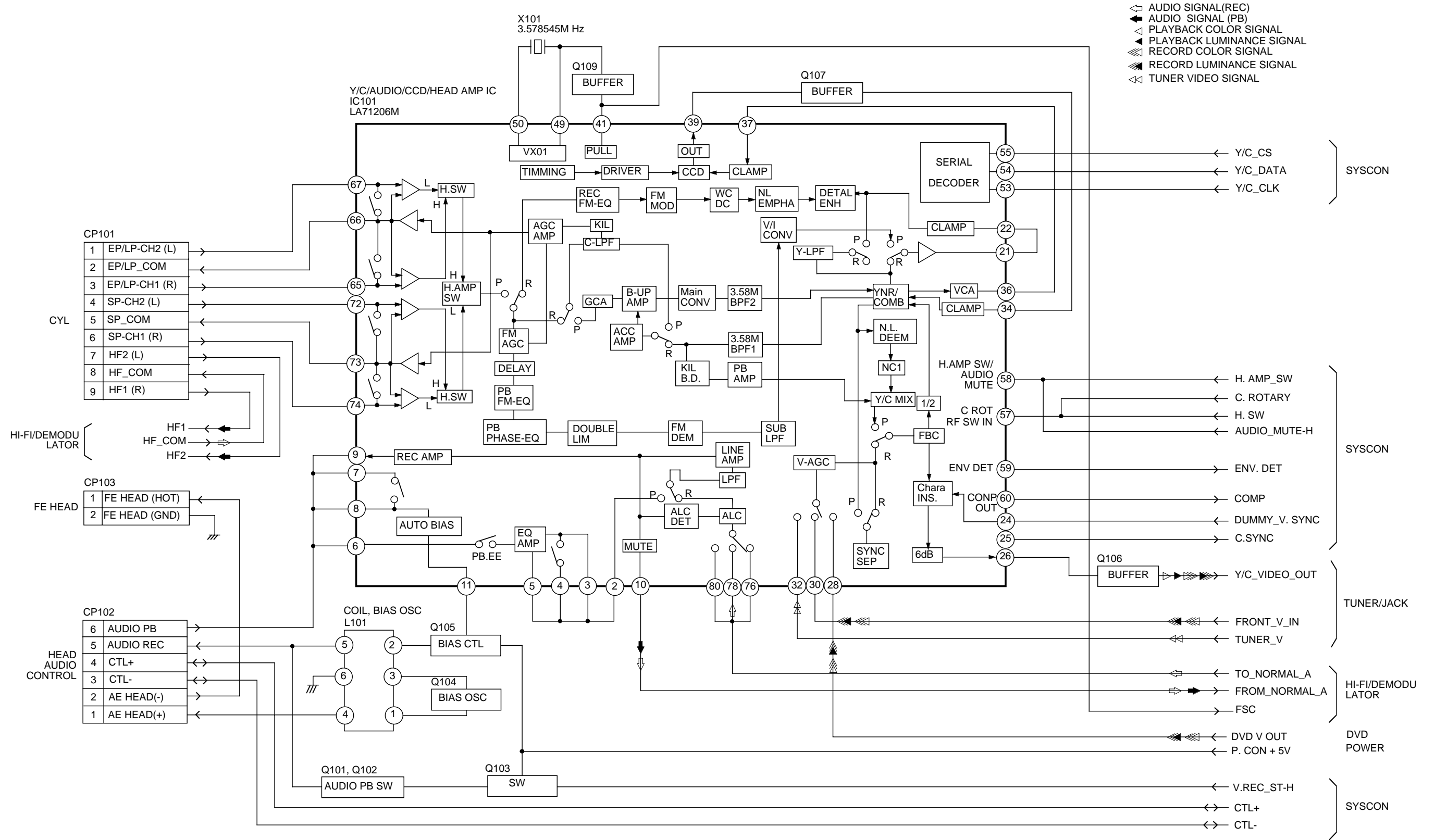
PRINTED CIRCUIT BOARDS  
DVD (BOTTOM SIDE)



PRINTED CIRCUIT BOARDS  
OPERATION  
SOLDER SIDE

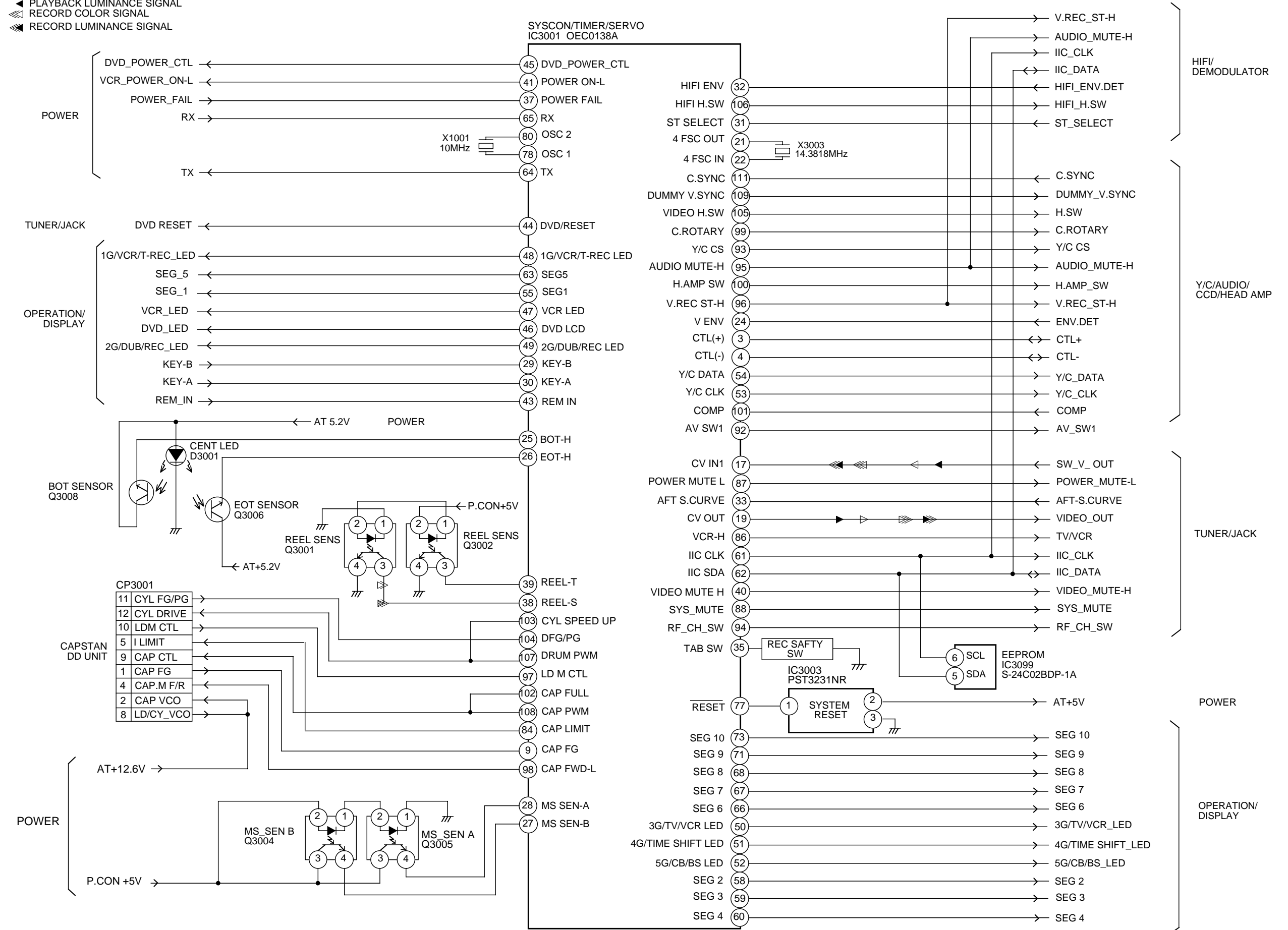


# Y/C/AUDIO/CCD/HEAD AMP BLOCK DIAGRAM

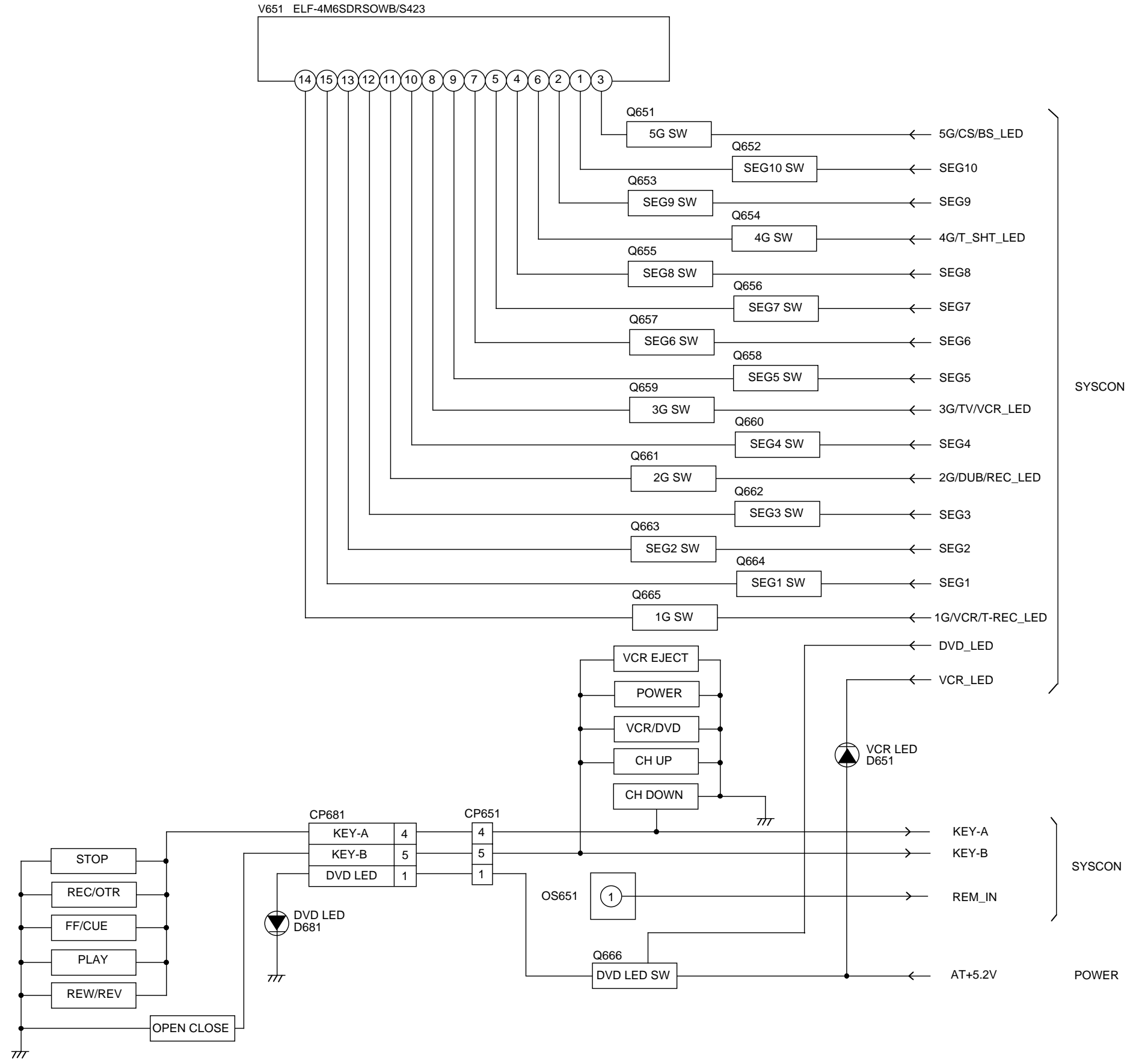


# SYSTEM CONTROL BLOCK DIAGRAM

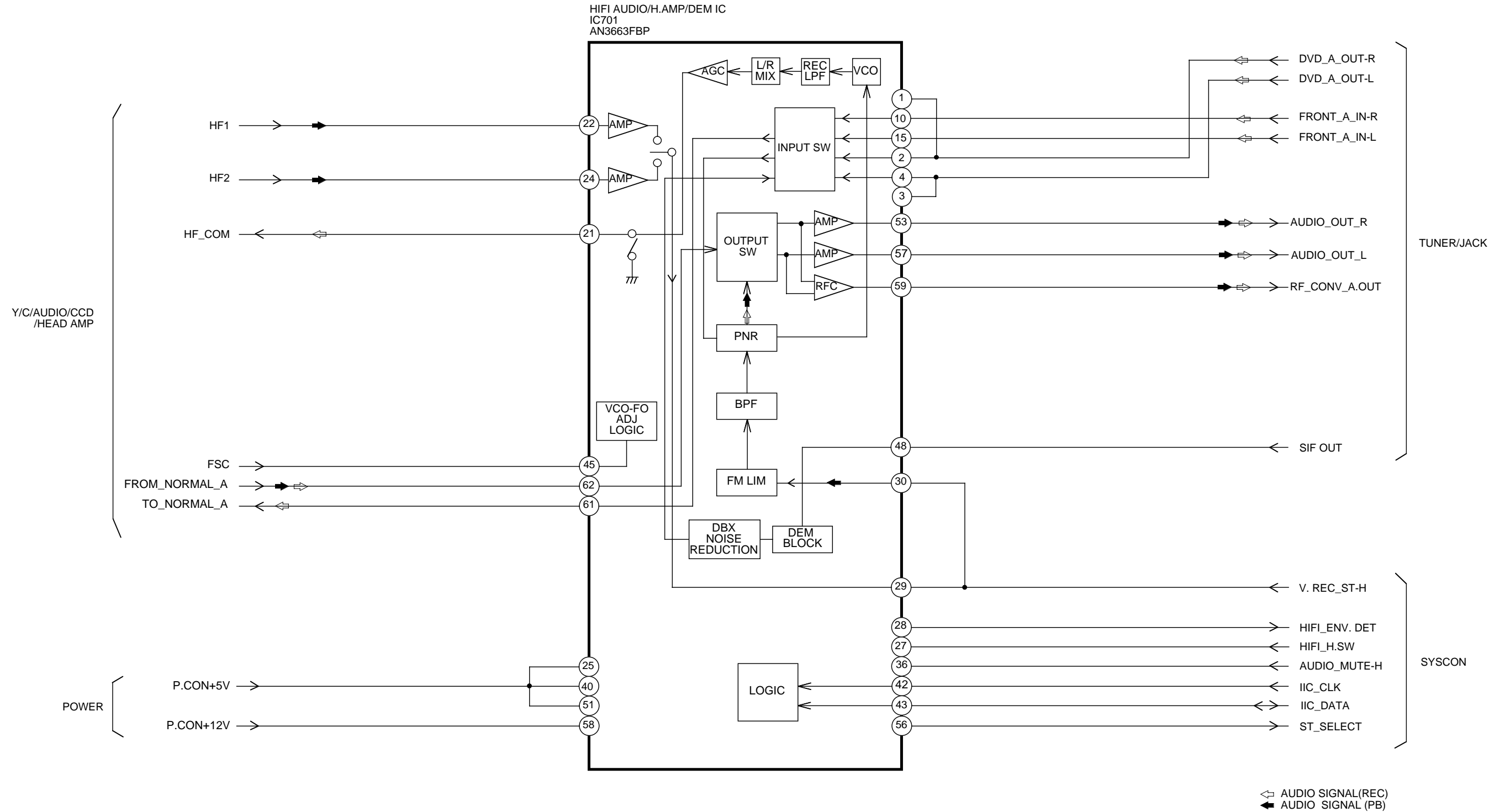
- ▷ PLAYBACK COLOR SIGNAL
- ◀ PLAYBACK LUMINANCE SIGNAL
- ◀ RECORD COLOR SIGNAL
- ◀ RECORD LUMINANCE SIGNAL



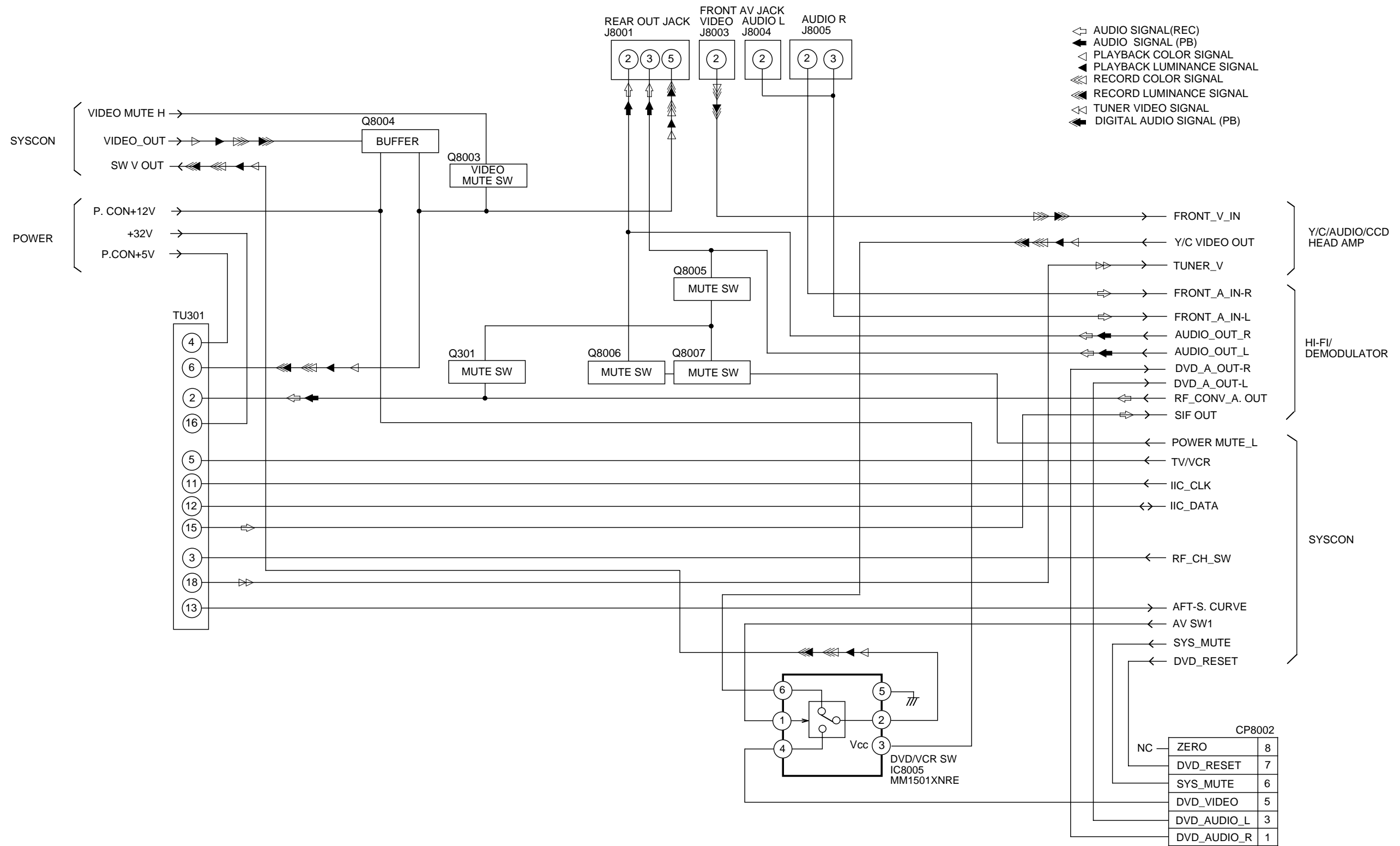
# OPERATION/DISPLAY BLOCK DIAGRAM



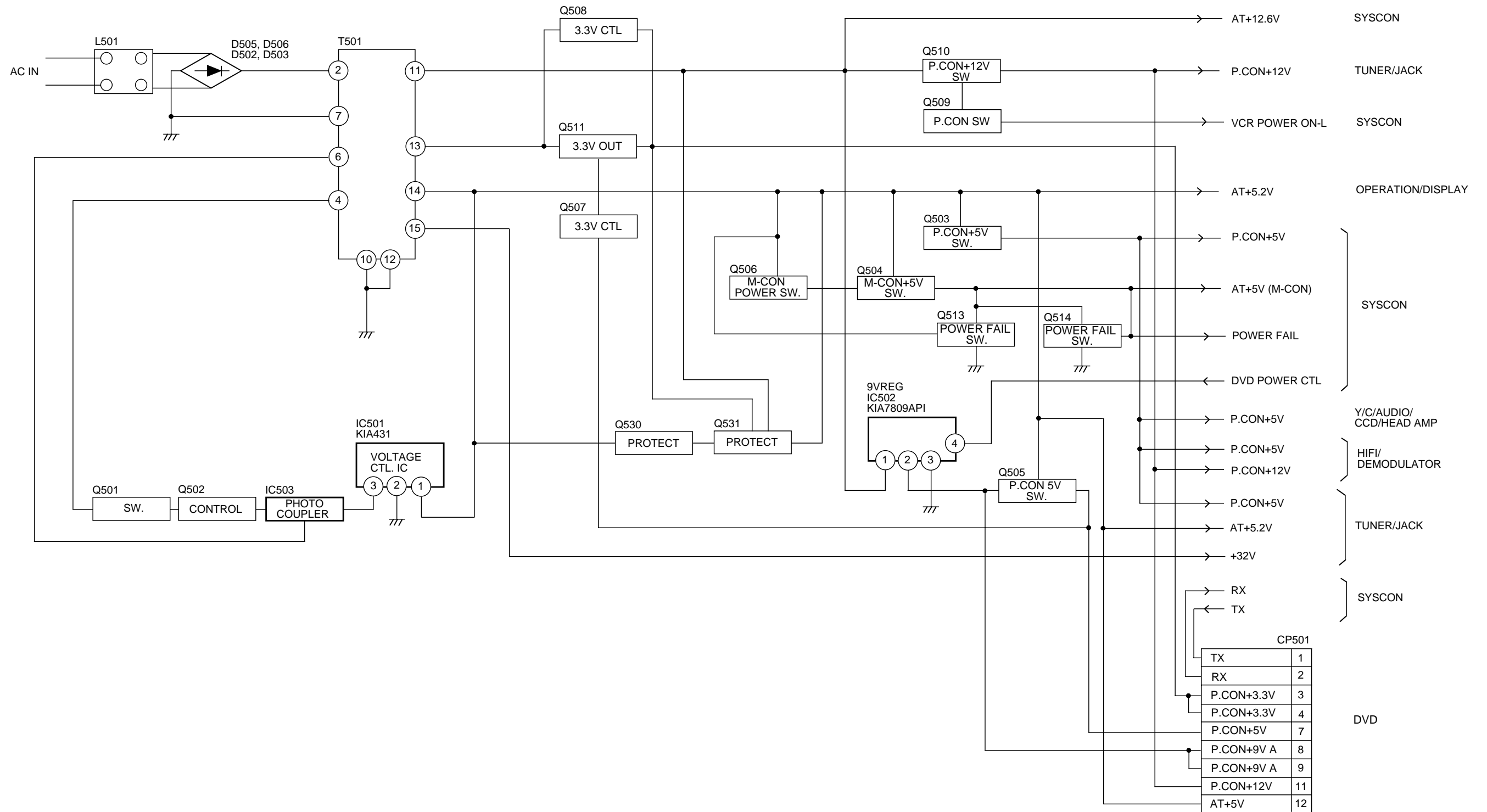
# HiFi/DEMODULATOR BLOCK DIAGRM



# TUNER/JACK BLOCK DIAGRAM



# POWER BLOCK DIAGRAM



# DVD BLOCK DIAGRAM

