


**IMPORTANT SAFETY NOTICE:**

COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.  
NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.

PRIMARY SIDE..... T1101-(4)

SECONDARY SIDE..... TP GND OF MAIN C.B.A.

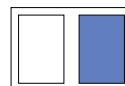
NOTE 2. THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 240V.

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# SYSTEM CONTROL & SERVO ICs VOLTAGE CHART (SP MODE)

REF. NO.	IC6001																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
STOP	4.3	5.0	0	0	0	5.0	0	0	0	5.0	5.0	0	0	0	0	2.5	4.8	5.0
PLAY	4.2	5.0	0	0	4.9	5.0	0	0	0	5.0	5.0	0	0	0	0	2.4	4.7	5.0
REC	0	4.9	0	0	4.9	5.0	0	0	0	3.9	5.0	0	0	0	0	2.4	4.7	4.9
F.F	4.2	5.0	5.0	0	—	5.0	0	0	0	5.0	5.0	0	0	0	0	2.4	4.7	4.8
REW	4.2	5.0	5.0	0	—	5.0	0	0	0	5.0	5.0	0	0	0	0	0	4.7	4.8

REF. NO.	IC6001																	
MODE	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
STOP	5.0	0	5.0	5.0	0.1	2.3	2.2	2.4	2.4	2.5	0	2.5	2.3	2.6	4.9	0	0	0
PLAY	5.0	0	5.0	5.0	2.6	0	2.2	2.4	2.4	2.4	0	2.4	2.6	2.5	4.9	0	0	0
REC	4.9	0	5.0	5.0	2.5	2.3	0	2.4	2.4	2.4	0	2.4	2.3	2.5	4.9	3.1	3.1	0
F.F	2.5	0	5.0	5.0	2.1	2.3	2.0	2.4	2.4	2.4	0	2.4	2.4	2.5	4.9	0	0	0
REW	2.4	0	5.0	5.0	2.4	2.3	3.3	2.4	2.4	2.4	0	2.4	2.4	2.5	4.9	0	0	0

REF. NO.	IC6001																	
MODE	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
STOP	2.5	2.4	0	2.4	2.4	5.0	1.2	3.3	0	4.3	5.0	5.0	0	5.0	0	5.0	5.0	5.0
PLAY	2.4	2.4	0	2.8	2.4	4.9	1.2	3.3	3.9	4.4	5.0	5.0	0	0	0	5.0	5.0	0
REC	2.4	2.4	0	2.4	2.4	4.9	1.2	3.7	0	4.4	5.0	4.9	0	0	4.6	5.0	5.0	0
F.F	2.4	2.4	0	2.9	2.4	4.9	1.2	3.7	0	4.1	5.0	5.0	0	5.0	0	0	5.0	0
REW	2.4	0	0	2.9	2.4	4.9	1.3	3.7	0	4.4	4.9	5.0	0	5.0	0	5.0	5.0	0

REF. NO.	IC6001																	
MODE	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
STOP	4.9	0	5.0	0	0	2.5	5.0	2.0	4.5	4.6	0	0	0	0	0	5.0	0	5.0
PLAY	4.9	0	5.0	0	0	2.4	4.9	0	4.5	4.2	0	0	0	0	0	5.0	0	0
REC	4.9	0	5.0	0	0	2.4	4.9	0	4.5	4.4	5.0	4.9	5.0	5.0	5.0	5.0	0	0
F.F	0	0	5.0	0	0	2.4	5.0	0	4.5	4.5	0	0	0	0	0	5.0	0	0
REW	0	0	5.0	0	0	2.4	5.0	5.0	0	4.4	0	0	0	0	0	5.0	0	5.0

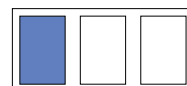
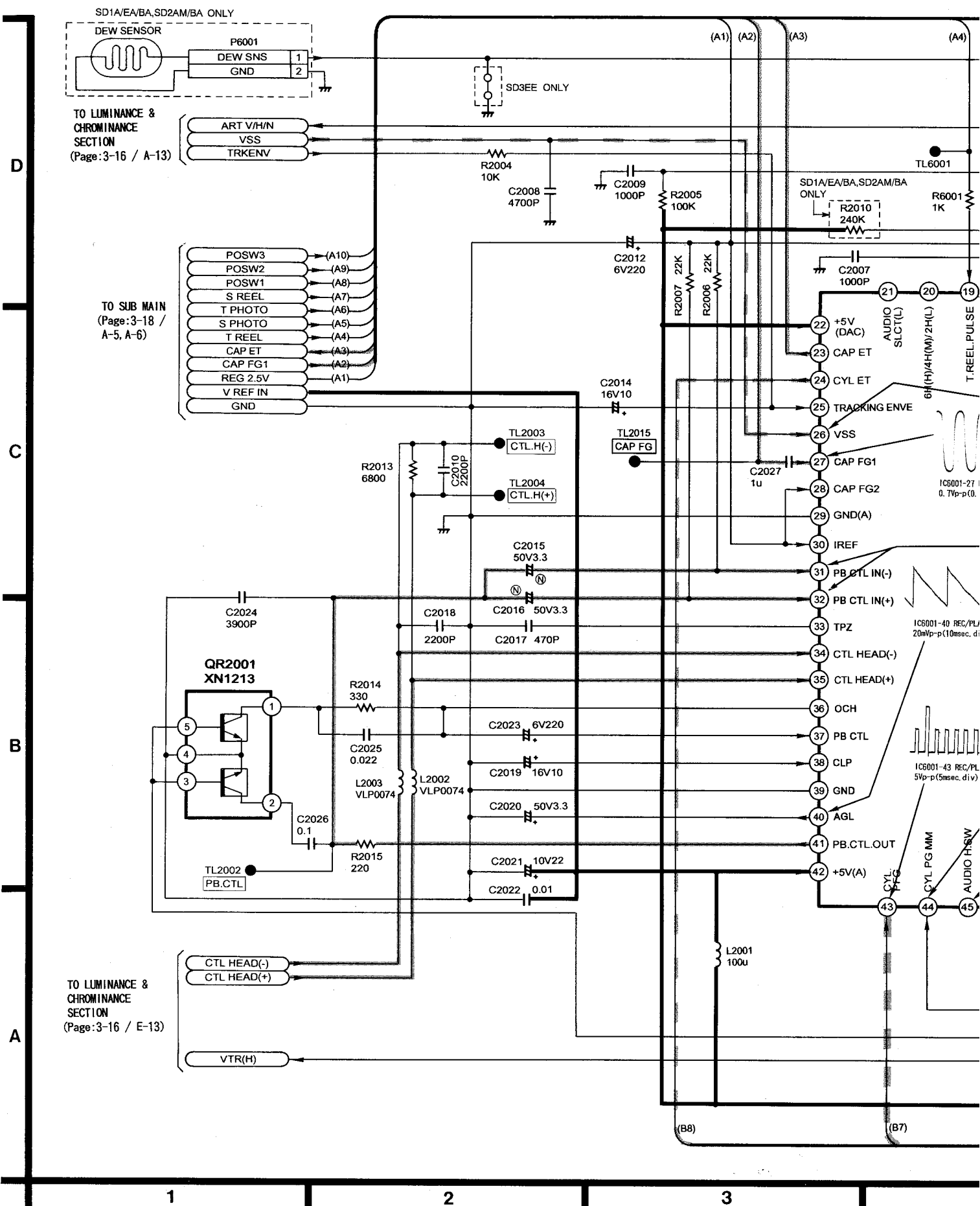
### SYSTEM CONTROL & SERVO ICs VOLTAGE CHART (SP MODE)

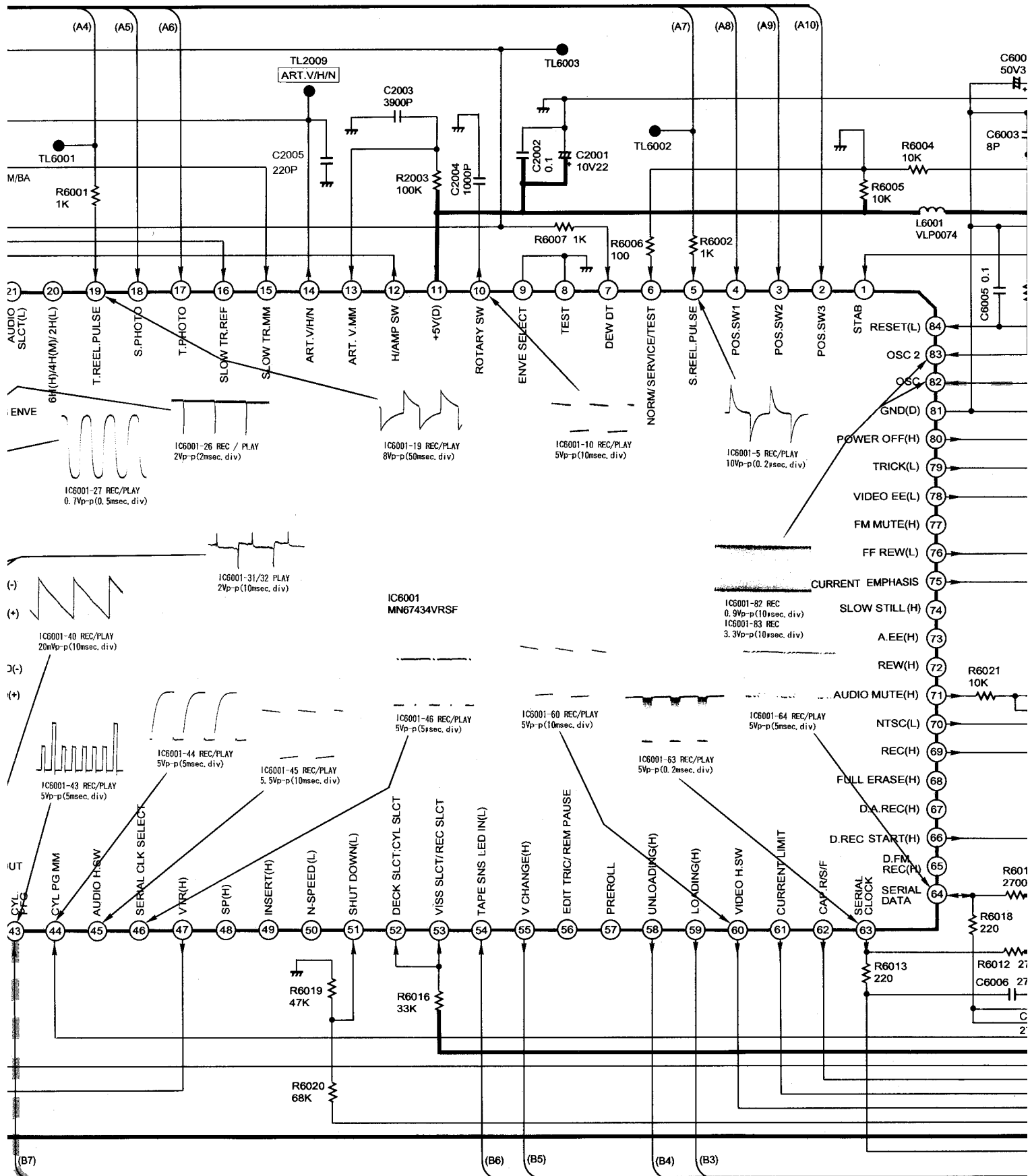
REF. NO.	I C 6 0 0 1																		
	MODE	73	74	75	76	77	78	79	80	81	82	83	84						
STOP	5.0	0	0	4.9	0	0	5.0	0	0	2.4	2.5	4.3							
PLAY	0	0	0	4.9	0	4.9	5.0	0	0	2.5	2.5	4.3							
REC	5.0	0	0	4.9	0	0	5.0	0	0	2.5	2.5	4.3							
F. F	5.0	0	0	0	0	0	0	5.0	0	2.5	2.5	4.3							
REW	5.0	0	0	0	0	0	5.0	0	0	2.5	2.5	4.3							

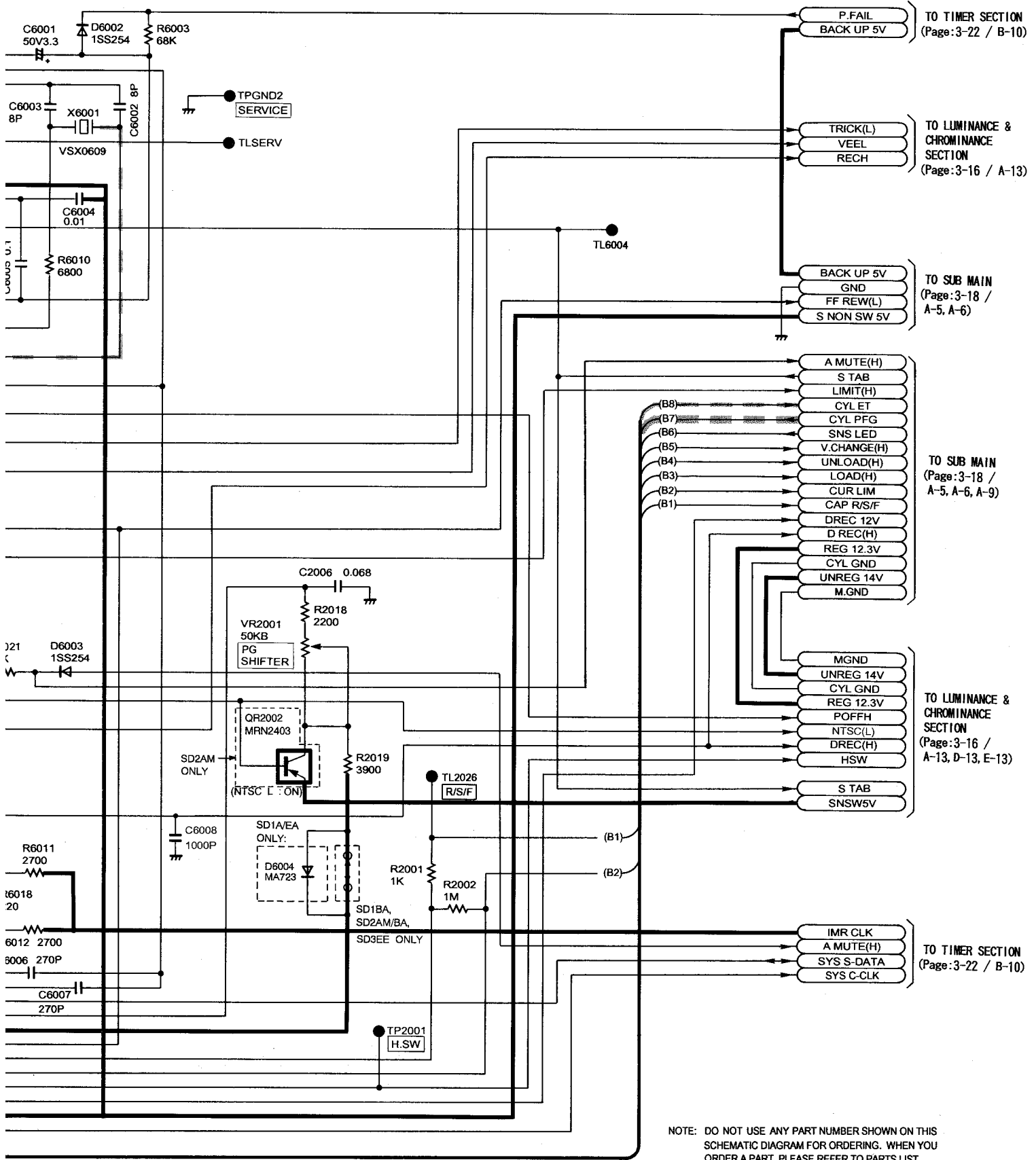
## SYSTEM CONTROL & SERVO TRANSISTORS DC VOLTAGE CHART (SP MODE)

[illegible]

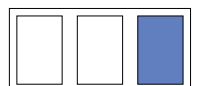
### 3-4. SYSTEM CONTROL & SERVO SECTION IN MAIN SCHEMATIC DIAGRAM







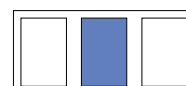
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.



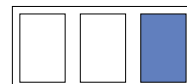




CONFIDENTIALITY OF INFORMATION



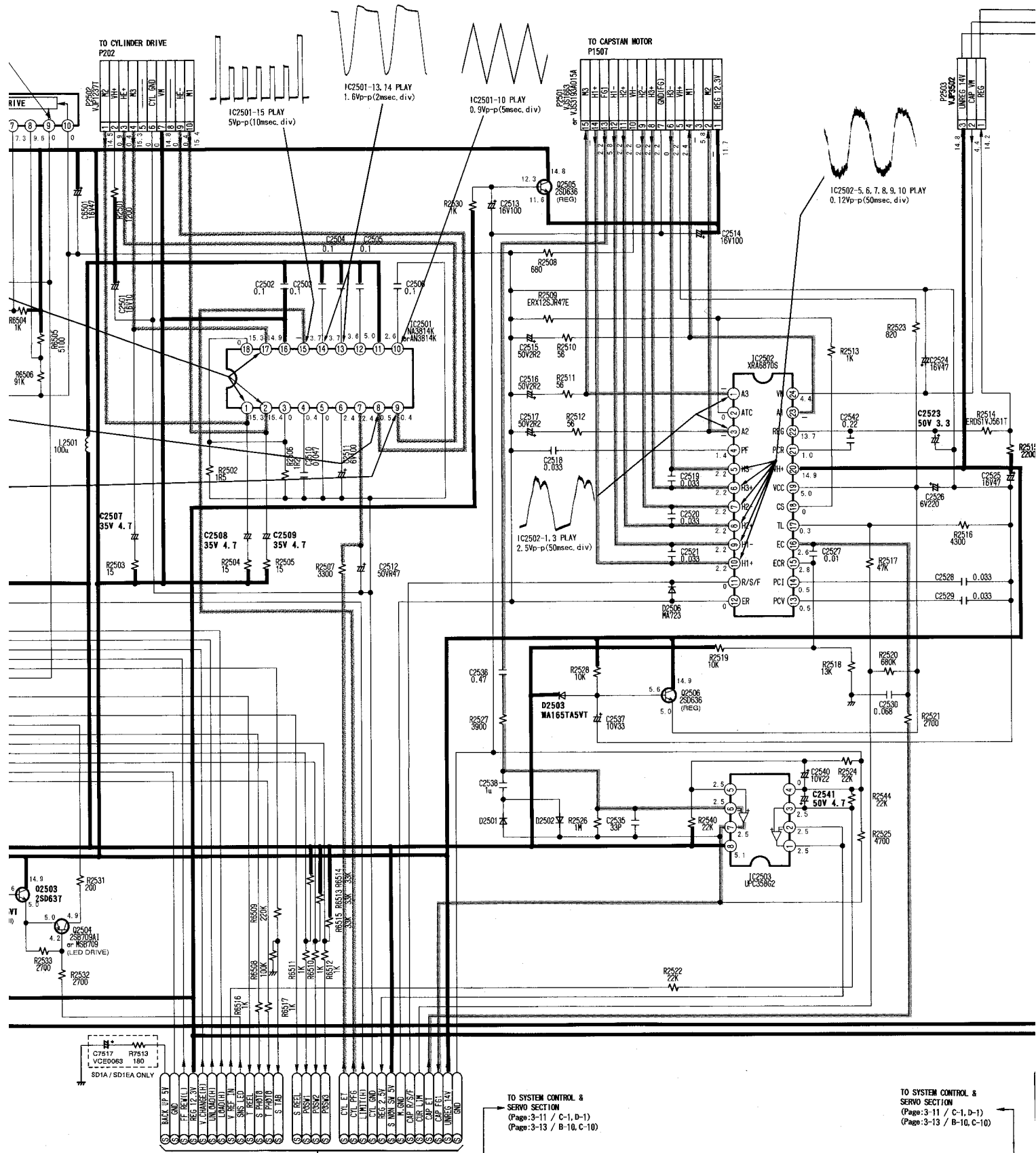
153405610704517298324922349523



**A**

## AUDIO MAIN SIGNAL PATH IN REC MODE





E IN THE BRACKETS ( ) ON THIS DIAGRAM IS 'MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

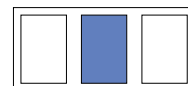
NOTE: [ ]

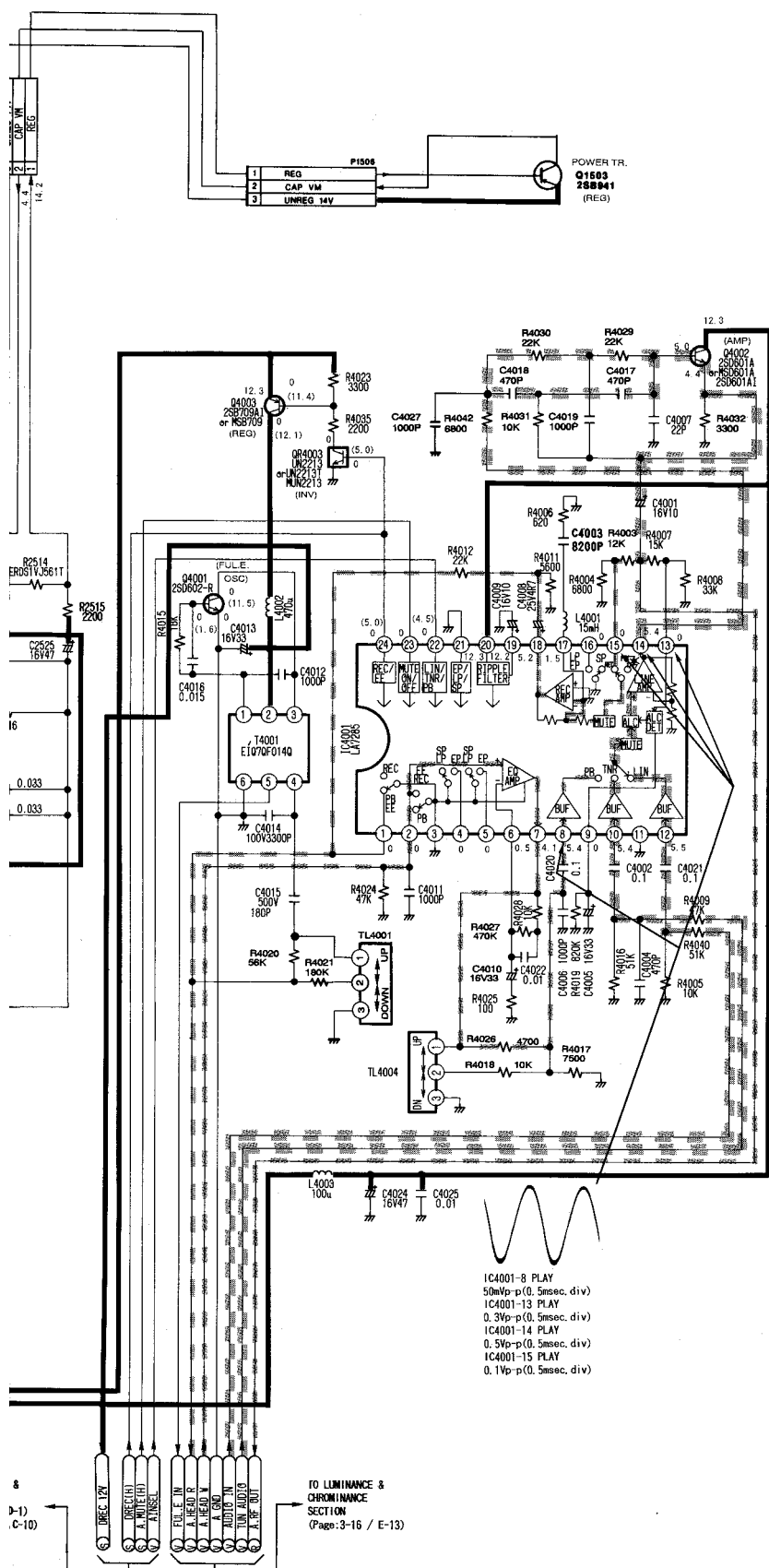
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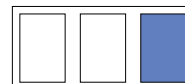
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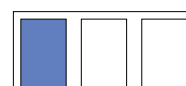
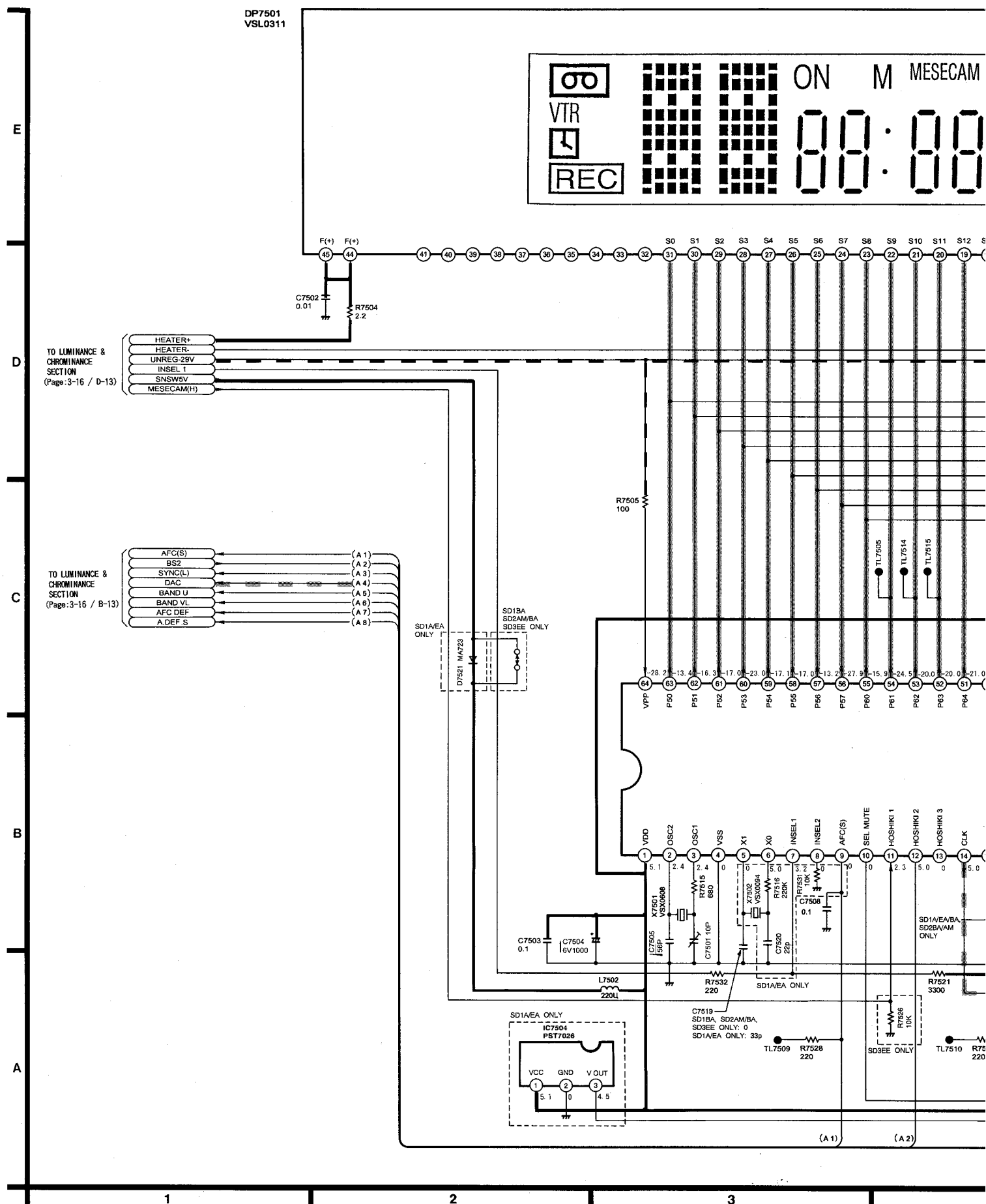


IC4001-8 PLAY  
50mVp-p(0.5msec.div)  
IC4001-13 PLAY  
0.3Vp-p(0.5msec.div)  
IC4001-14 PLAY  
0.5Vp-p(0.5msec.div)  
IC4001-15 PLAY  
0.1Vp-p(0.5msec.div)

TO LUMINANCE &  
CHROMINANCE  
SECTION  
(Page:3-16 / E-13)

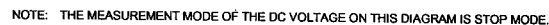


### 3-7. TIMER SECTION IN MAIN & OPERATION SCHEMATIC DIAGRAM

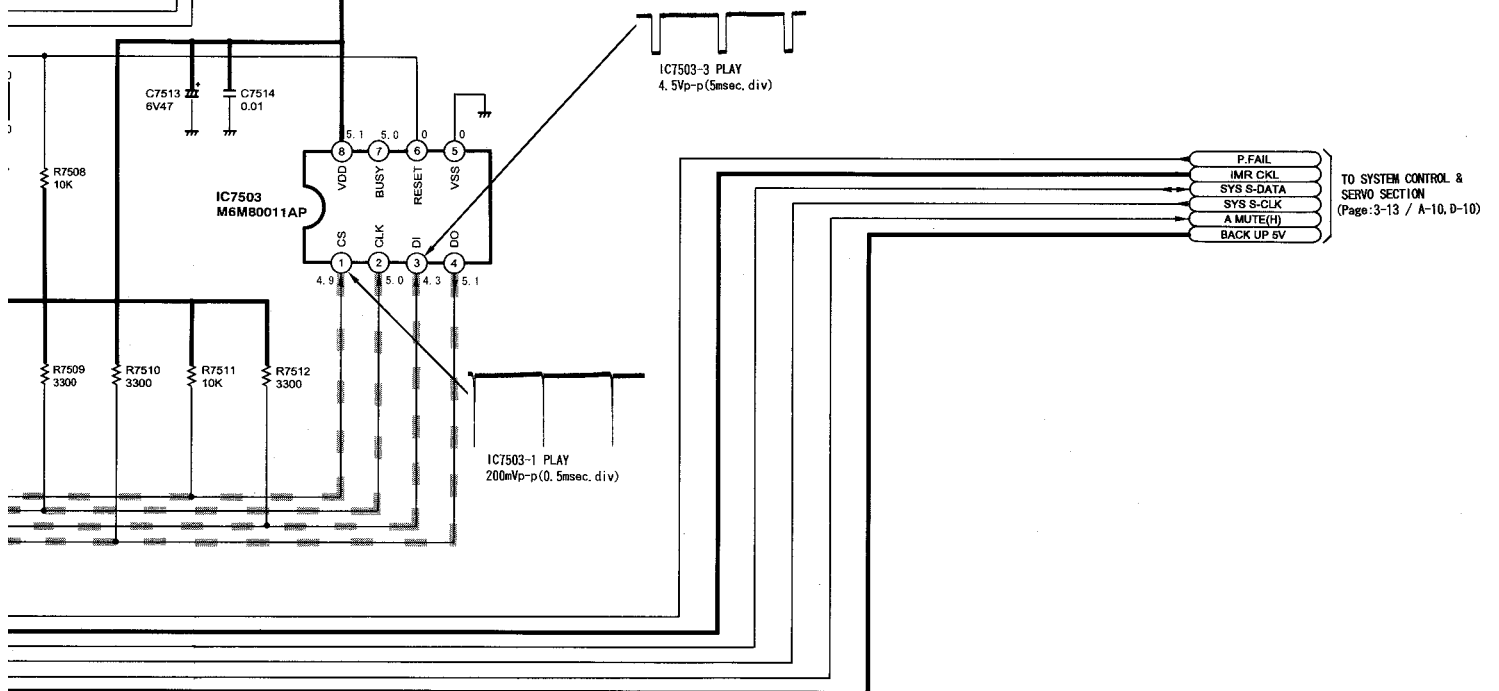
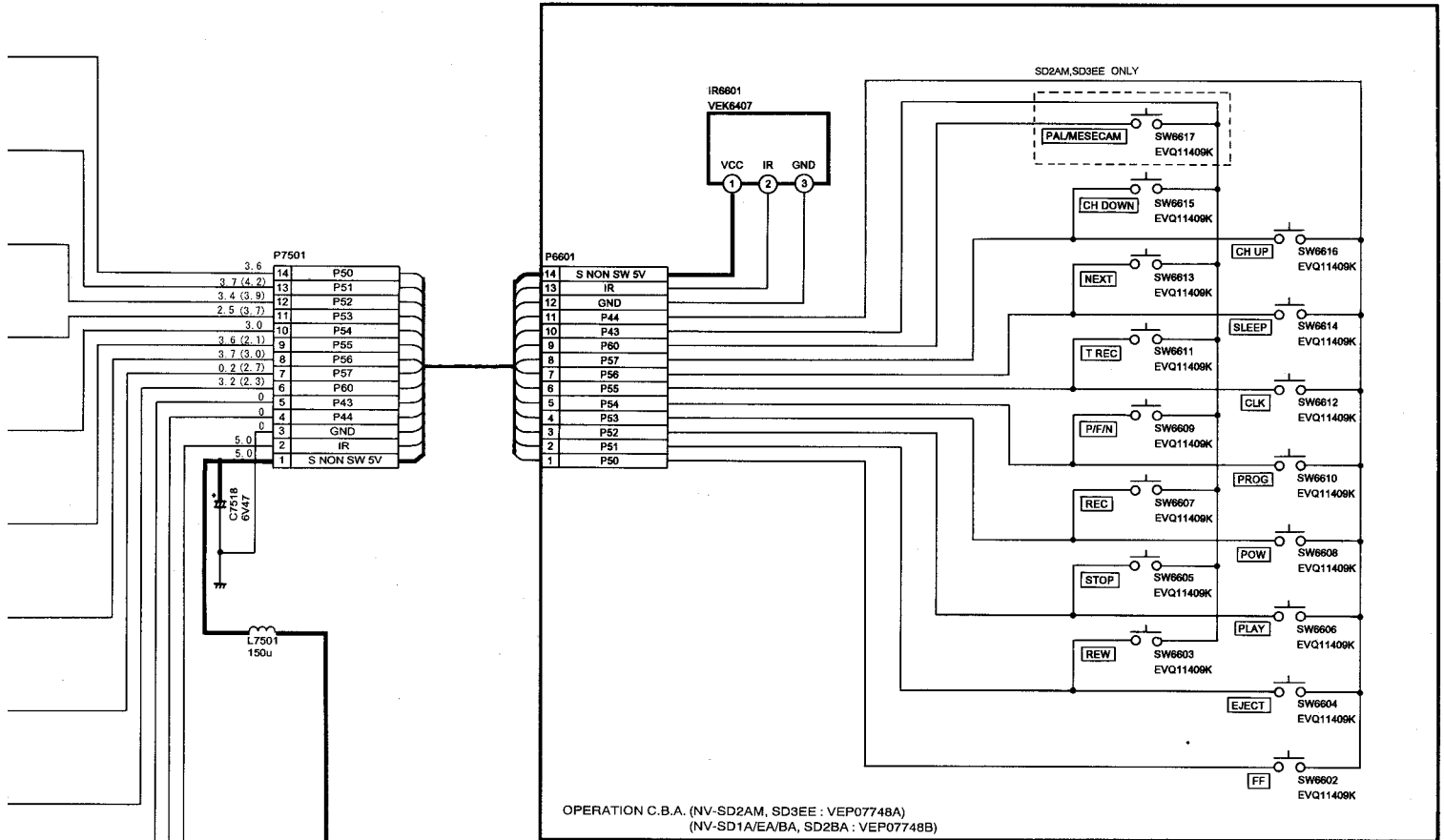




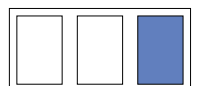
• 00 ▶ 00 : 00.



GRID CONTROL SIGNAL  
 SEGMENT CONTROL SIGNAL  
 TUNE CONTROL SIGNAL



NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.





# PARTS COMPARISON TABLE (MAIN C.B.A.)

## SUB MAIN SECTION

	Ref. No.	SD1A	SD1EA	SD1BA	SD2AM	SD2BA	SD3EE
* 1(G-10)	C7517	○	○	—	—	—	—
* 2(F-9 )	R7513	○	○	—	—	—	—

## LUMINANCE & CHROMINANCE IN MAIN SECTION

	Ref. No.	SD1A	SD1EA	SD1BA	SD2AM	SD2BA	SD3EE
* 3(B-17)	C7014	○	—	—	—	—	○
* 4(B-17)	C7015	○	—	—	—	—	○
* 5(B-18)	C7016	○	—	—	—	—	○
* 6(C-14)	D3004	Jumper	Jumper	Jumper	Jumper	Jumper	○
* 7(B-15)	DL8001	○	○	○	—	○	○
* 8(B-17)	IC7002	—	—	—	○	—	○
* 9(B-15)	L8004	○	○	○	—	○	○
*10(B-16)	PP3001	—	—	—	○	—	—
*11(B-14)	PP3002	—	—	—	○	—	—
*12(A-17)	Q7001	○	○	—	—	—	—
*13(B-17)	QR7003	○	○	—	—	—	—
*14(A-17)	R7011	○	○	—	—	—	—
*15(A-17)	R7012	○	○	—	—	—	—
*16(B-18)	R7017	—	—	—	○	—	○
*17(B-17)	R7018	—	—	—	○	—	○
*18(F-18)	R7019	—	—	—	○	—	○
*19(C-17)	R8005	—	—	—	○	—	○
*20(C-17)	R8006	—	—	—	○	—	○
*21(B-15)	R8007	○	○	○	—	○	○
*22(B-16)	R8008	○	○	○	—	○	○
*23(F-18)	SW7001	—	—	○	○	○	○
*24(B-17)	X7001	—	—	—	○	—	○

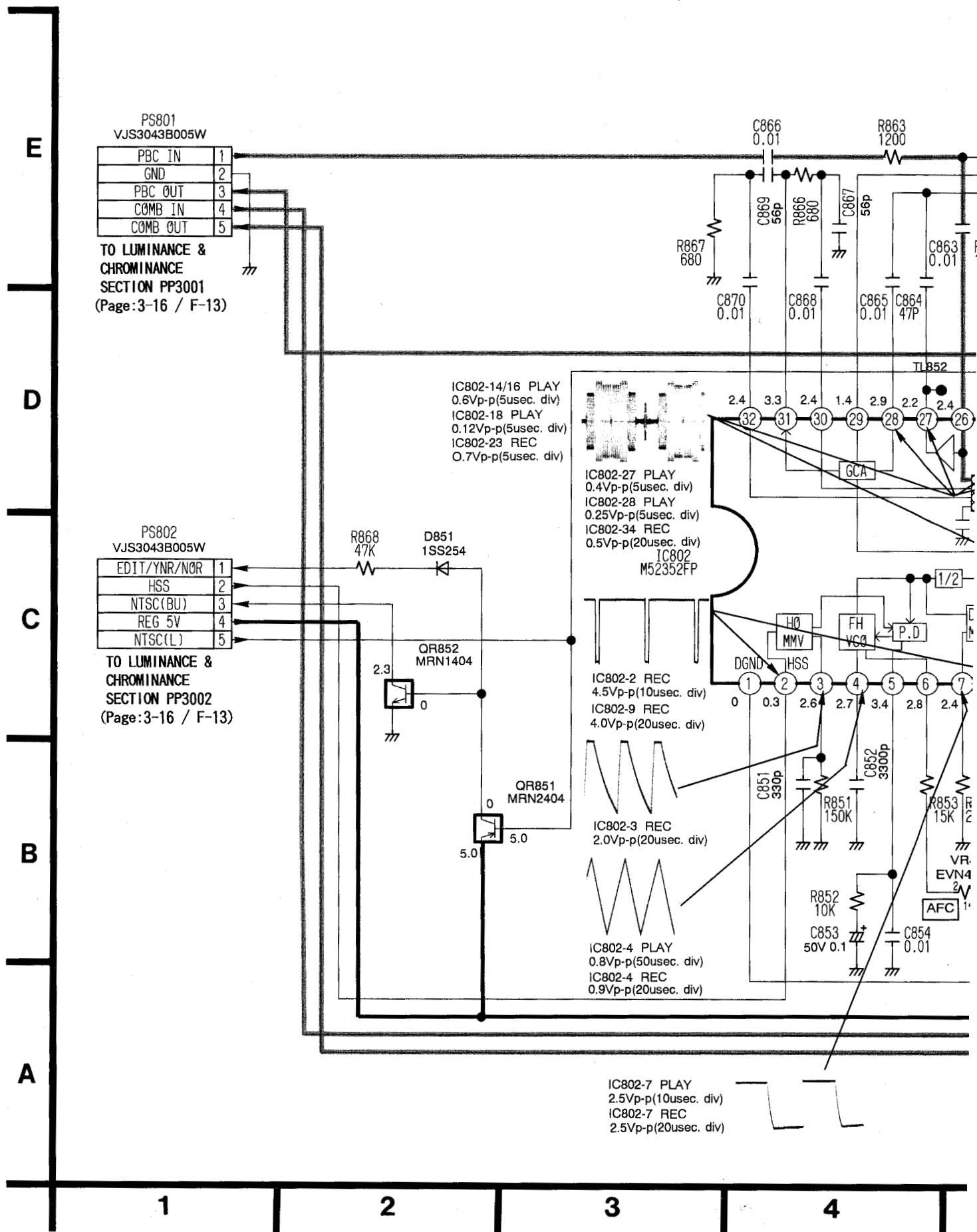
## SYSTEM CONTROL & SERVO IN MAIN SECTION

	Ref. No.	SD1A	SD1EA	SD1BA	SD2AM	SD2BA	SD3EE
*25(C-9 )	C7520	○	○	—	—	—	—
*26(C-10)	D6004	○	○	Jumper	Jumper	Jumper	Jumper
*27(D-9 )	D7521	○	○	Jumper	Jumper	Jumper	Jumper
*28(D-9 )	IC7504	○	○	—	—	—	—
*29(E-17)	P6001	○	○	○	○	○	—
*30(C-11)	QR2002	—	—	—	○	—	—
*31(C-13)	R2010	○	○	○	○	○	—
*32(C-9 )	R7516	○	○	—	—	—	—
*33(C-10)	R7526	—	—	—	—	—	○
*34(C-9 )	R7531	○	○	—	—	—	—
*35(C-9 )	X7502	○	○	—	—	—	—

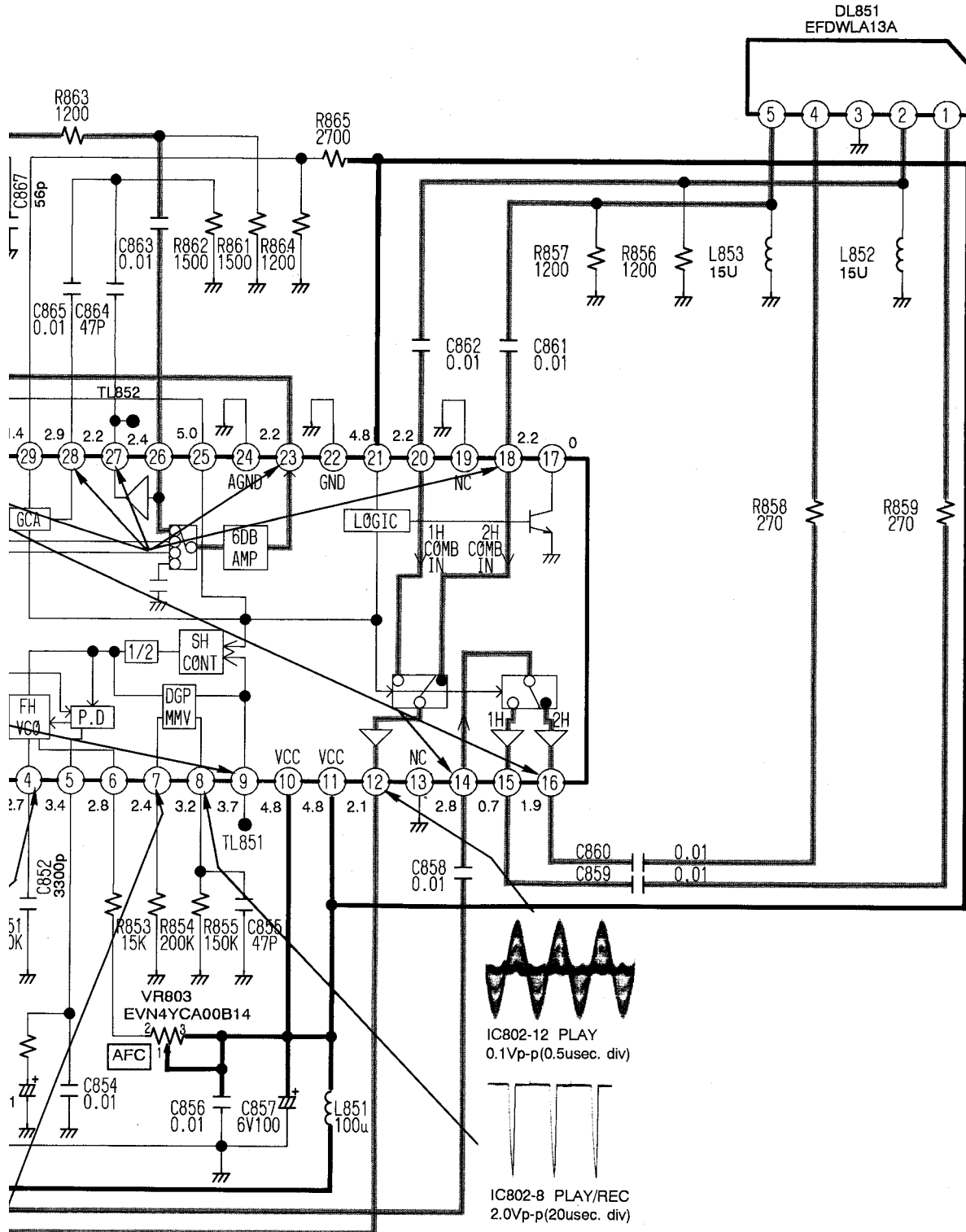
MAIN C. B. A.					
Transistor		IC6501	E-13	TL7505	C-8
		IC7001	B-16	TL7506	A-8
Q2502	F-14	IC7002	B-17	TL7507	B-9
Q2503	F-13	IC7501	B-8	TL7508	B-9
Q2504	F-14	IC7502	C-9	TL7509	B-9
Q2505	F-11	IC7503	B-9	TL7510	A-13
Q2506	E-11	IC7504	D-9	TL7511	A-8
Q3001	C-17	Test Land		TL7514	C-8
Q4001	G-15			TL7515	B-8
Q4002	F-16			TL8030	B-14
Q4003	F-14			TL8031	C-15
Q7001	A-17	TL1001	C-16	TLGND1	B-10
Q7002	C-18	TL1002	A-11	TLGND3	D-16
Q7003	C-14	TL2002	D-10	TLSEV	C-13
Transistor & Resistor		TL2003	C-11	TP2001	B-13
		TL2004	C-10	TP3001	C-15
		TL2009	D-13	TPGND2	C-13
		TL2015	D-11	Adjustment	
		TL2026	D-12	C7501	C-9
		TL3002	E-18	VR2001	B-11
		TL3040	E-17	Connector	
		TL3041	E-17	P1001	B-11
		TL3042	C-14	P2501	F-11
		TL3043	C-15	P2502	F-9
		TL4001	E-16	P2503	F-11
		TL4002	F-17	P3001	D-14
		TL4003	E-17	P4001	E-17
		TL4004	E-15	P4002	F-17
		TL4010	D-17	P6001	E-17
		TL4011	E-17	P6501	G-13
		TL4012	E-17	P7501	D-9
TL4013	D-17	PK701	A-17		
TL6001	D-13	PK702	A-14		
TL6002	D-13	PK703	A-12		
TL6003	E-17	PK704	B-17		
TL6004	D-13	PK3003	C-14		
TL6501	E-13	PP3001	B-16		
TL7001	A-13	PP3002	B-14		
TL7010	A-12				
TL7501	A-9				
TL7502	A-9				
TL7503	B-9				
TL7504	B-10				

ADDRESS INFORMATION

### 3-10. PB NTSC PACK SCHEMATIC DIAGRAM (NV-SD2AM ONLY)



# VIDEO SIGNAL PATH IN PLAYBACK MODE



NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)  
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

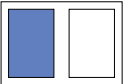
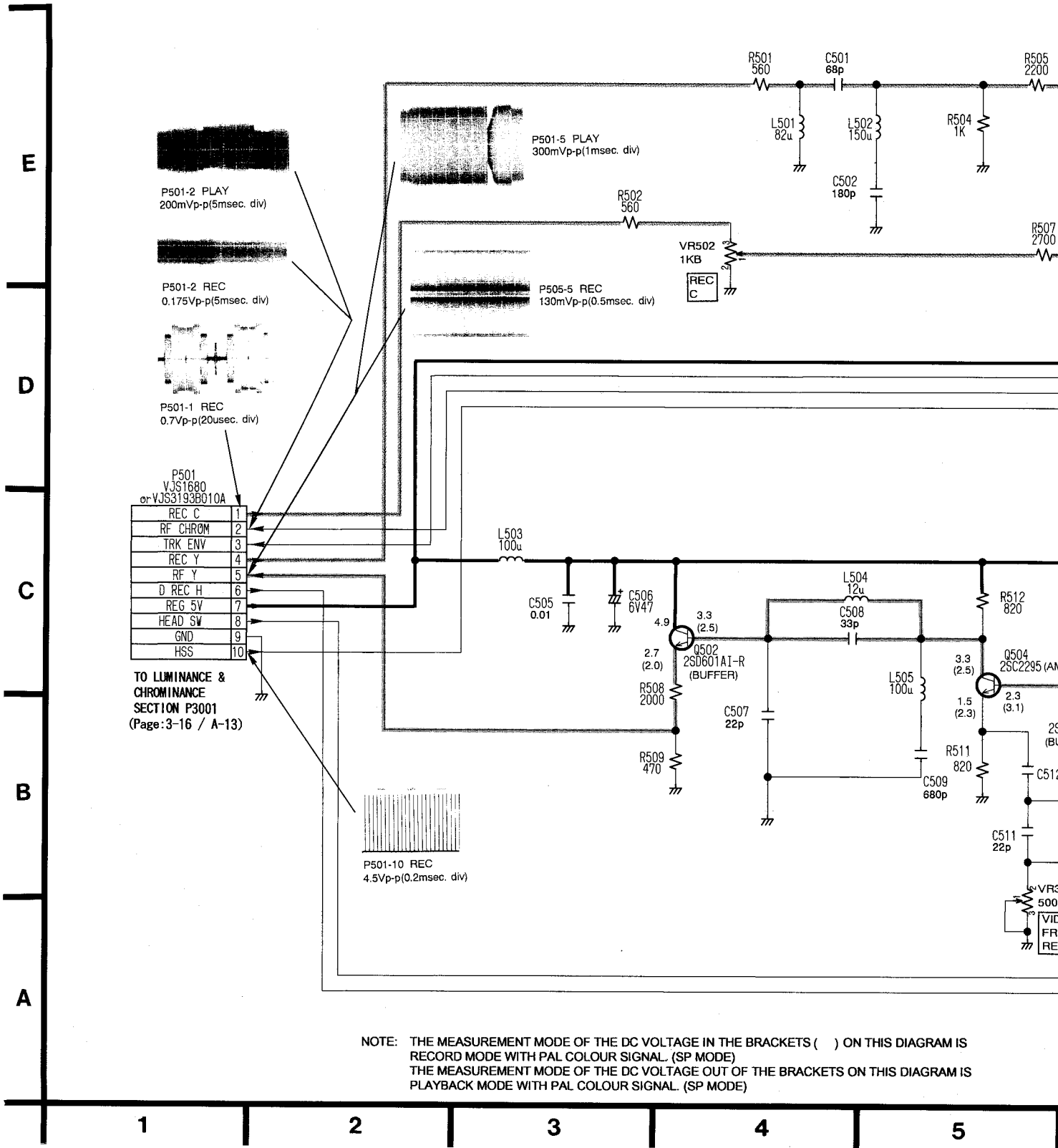
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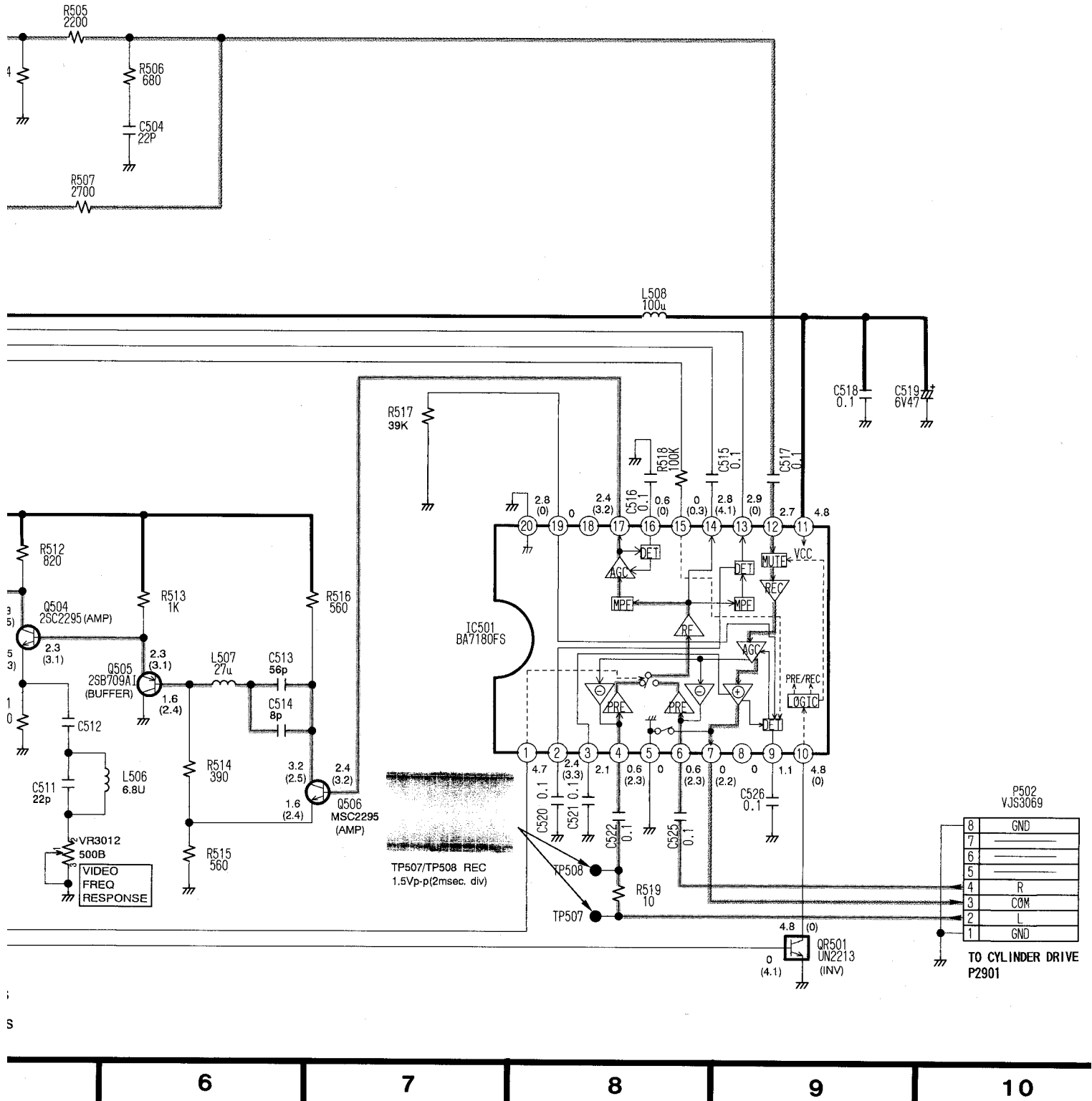


3-12. HEAD AMP SCHEMATIC DIAGRAM



# VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

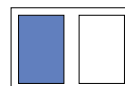
# VIDEO MAIN SIGNAL PATH IN REC MODE



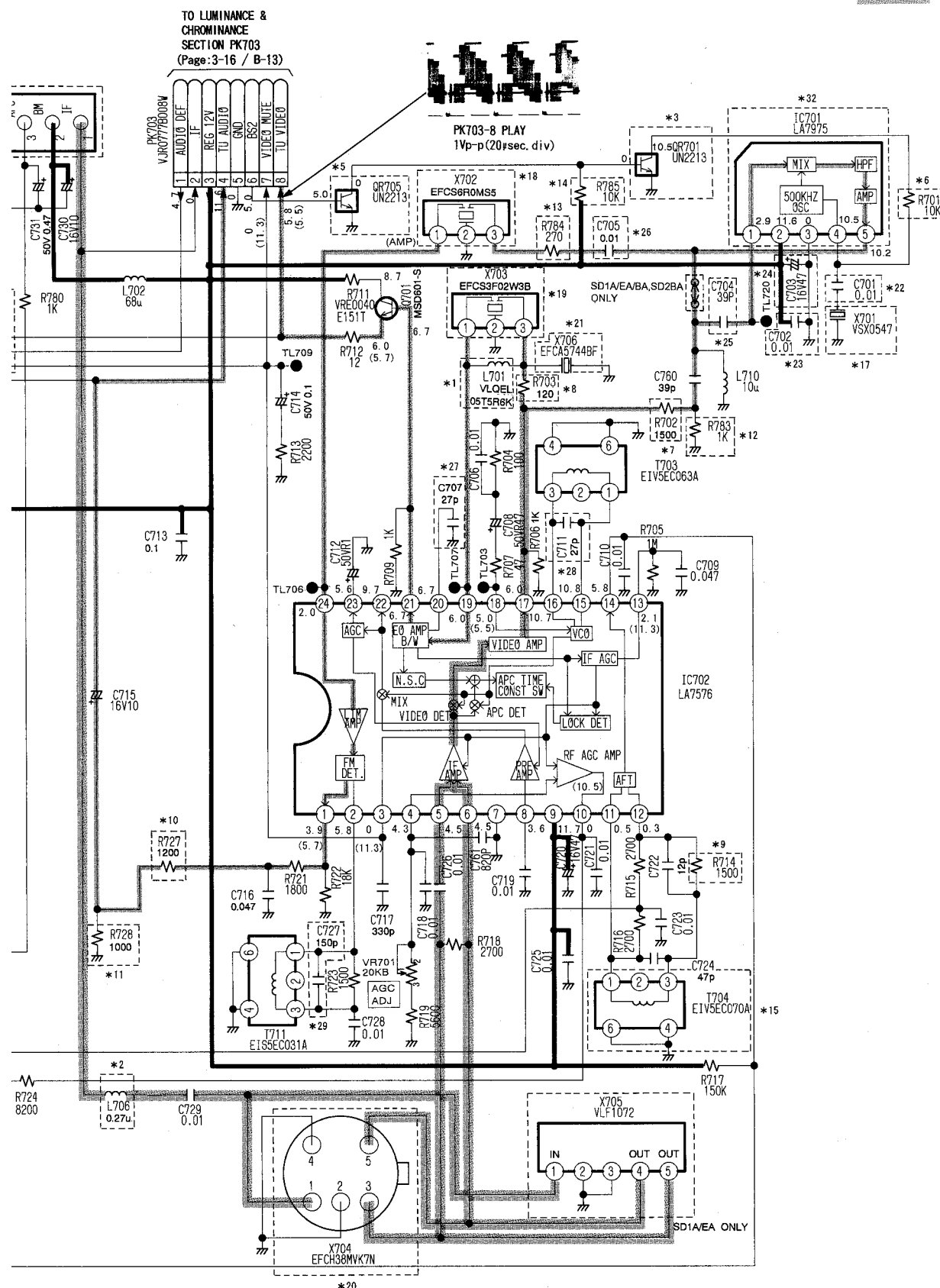
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NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THE RECORD MODE WITH PAL COLOUR SIGNAL (SP MODE)  
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THE PLAYBACK MODE WITH PAL COLOUR SIGNAL (SP MODE)







ETS ( ) ON THIS DIAGRAM IS  
RACKETS ON THIS DIAGRAM IS

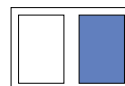
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN  
YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

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PARTS COMPARISON TABLE (TV DEMODULATOR)

	Ref. No.	NV-SD1A	NV-SD1EA	NV-SD1BA	NV-SD2AM	NV-SD2BA	NV-SD3EE
* 1	L701	VLQEL05T8R2K	VLQEL05T8R2K	VLQEL05T120K	VLQEL05T5R6K	VLQEL05T120K	VLQEL05T5R6K
* 2	L706	VLQ0612JR22T	VLQ0612JR22T	VLQ0612JR27T	VLQ0612JR27T	VLQ0612JR27T	VLQ0612JR27T
* 3	QR701	_____	_____	_____	UN2213	_____	UN2213
* 4	QR702	UN2211	UN2211	UN2211	UN2211	UN2211	_____
* 5	QR705	_____	_____	_____	UN2213	_____	UN2213
* 6	R701	_____	_____	_____	10K	_____	10K
* 7	R702	330	330	330	1500	330	1500
* 8	R703	220	220	330	120	330	120
* 9	R714	_____	_____	_____	1500	_____	1500
*10	R727	1100	1100	1200	1200	1200	1200
*11	R728	820	820	1K	1K	1K	1K
*12	R783	_____	_____	_____	1K	_____	1K
*13	R784	0	0	0	270	0	270
*14	R785	_____	_____	_____	10K	_____	10K
*15	T704	EIV5EC068A	EIV5EC067A	EIV5EC067A	EIV5EC068A	EIV5EC067A	EIV5EC068A
*16	TU701	ENV77881H3	ENV77880H3	ENV79827H3	ENV598B1H3	ENV79827H3	ENV598B1H3
*17	X701	_____	_____	_____	V SX0553	_____	V SX0553
*18	X702	EFCS5R5MS5	EFCS5R5MS5	EFCS6R0MS5	EFCS6R0MS5	EFCS6R0MS5	EFCS6R0MS5
*19	X703	EFCS5M7MW3	VLF1071	EFCS6R0MW5	EFCS3F02W3B	EFCS6R0MW5	EFCS3F02W3B
*20	X704	_____	_____	EFCH38MVK7N	EFCH38MVK30	EFCH38MVK7N	EFCH38MVK30
*21	X706	_____	_____	_____	EFCA5744BF	_____	EFCA5744BF
*22	C701	_____	_____	_____	0. 01	_____	0. 01
*23	C702	_____	_____	_____	0. 01	_____	0. 01
*24	C703	_____	_____	_____	16V47	_____	16V47
*25	C704	_____	_____	_____	39P	_____	39P
*26	C705	39P	39P	39P	0. 01	39P	0. 01
*27	C707	18P	39P	10P	27P	10P	27P
*28	C711	30P	27P	27P	30P	27P	30P
*29	C727	180P	180P	150P	150P	150P	150P
*30	C732	16V10	16V10	_____	16V10	_____	16V10
*31	C741	0. 01	0. 01	_____	0. 01	_____	0. 01
*32	IC701	_____	_____	_____	LA7975	_____	LA7975

### 3-16. SECAM PACK SCHEMATIC DIAGRAM (NV-SD3EE ONLY)

