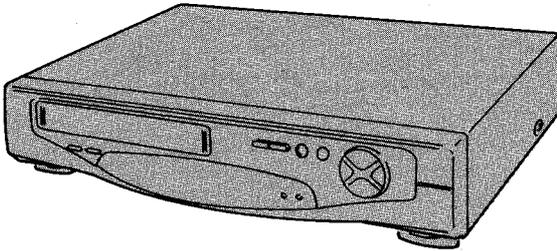


Service Manual

Video Cassette Recorder

Panasonic **VHS** **HQ**
PAL NTSC
NV-SD300AM
NV-SD400EU

K-MECHANISM

SPECIFICATIONS\ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

DESCRIPTIONS\ОБЩЕЕ ОПИСАНИЕ

SERVICE INFORMATION\СЕРВИСНАЯ ИНФОРМАЦИЯ

SERVICE INFORMATION DISPLAY\ИНДИКАЦИЯ СЕРВИСНОЙ ИНФОРМАЦИИ

SELF-TEST INDICATION DISPLAY\ИНДИКАЦИЯ ИНФОРМАЦИИ САМОТЕСТИРОВАНИЯ

ADJUSTMENT PROCEDURES\ПРОЦЕДУРЫ НАСТРОЙКИ

DISASSEMBLY METHOD \МЕТОДИКА РАЗБОРКИ

MECHANICAL ADJUSTMENT PROCEDURES \МЕТОДИКА МЕХАНИЧЕСКОЙ НАСТРОЙКИ

DISASSEMBLY PROCEDURES OF MECHANISM \МЕТОДИКА РАЗБОРКИ МЕХАНИЗМА

ASSEMBLY PROCEDURES OF MECHANISM \МЕТОДИКА СБОРКИ МЕХАНИЗМА

ELECTRICAL ADJUSTMENT PROCEDURES \МЕТОДИКА ЭЛЕКТРИЧЕСКОЙ НАСТРОЙКИ

BLOCK DIAGRAMS\БЛОК - СХЕМЫ

ABBREVIATIONS\СОКРАЩЕНИЯ

SYSTEM CONTROL & SERVO BLOCK DIAGRAM\БЛОК - СХЕМА СИСТЕМЫ УПРАВЛЕНИЯ И СЕРВОПРИВОДА

LUMINANCE & CHROMINANCE BLOCK DIAGRAM\БЛОК - СХЕМА ОБРАБОТКИ ВИДЕО СИГНАЛА

SCHEMATIC DIAGRAMS \ПРИНЦИПИАЛЬНЫЕ СХЕМЫ

POWER SUPPLY SECTION IN MAIN SCHEMATIC DIAGRAM\ПРИНЦИПИАЛЬНАЯ СХЕМА БЛОКА ПИТАНИЯ (ОСНОВНАЯ ПЛАТА)

SYSTEM CONTROL & SERVO SECTION IN MAIN SCHEMATIC DIAGRAM\ПРИНЦИПИАЛЬНАЯ СХЕМА СИСТЕМЫ УПРАВЛЕНИЯ И СЕРВОПРИВОДА

LUMINANCE/CHROMINANCE & AUDIO SECTION IN MAIN SCHEMATIC DIAGRAM\ПРИНЦИПИАЛЬНАЯ СХЕМА ОБРАБОТКИ ВИДЕО И АУДИО СИГНАЛА (ОСНОВНАЯ ПЛАТА)

RF SECTION IN MAIN SCHEMATIC DIAGRAM\ПРИНЦИПИАЛЬНАЯ СХЕМА ВЫСОКОЧАСТОТНОГО БЛОКА

OSD PACK SCHEMATIC DIAGRAM\ПРИНЦИПИАЛЬНАЯ СХЕМА БЛОКА ЭКРАННОГО МЕНЮ

MOTOR DRIVE & SUB AUDIO PACK SCHEMATIC DIAGRAM\ ПРИНЦИПИАЛЬНАЯ СХЕМА УПРАВЛЕНИЯ ДВИГАТЕЛЕМ И ОБРАБОТКИ АУДИО СИГНАЛА (ДОПОЛНИТЕЛЬНАЯ ПЛАТА)

LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM\ПРИНЦИПИАЛЬНАЯ СХЕМА ОБРАБОТКИ ВИДЕО СИГНАЛА

HEAD AMP SCHEMATIC DIAGRAM\ПРИНЦИПИАЛЬНАЯ СХЕМА УСИЛИТЕЛЯ ВИДЕОГОЛОВОК

TIMER SCHEMATIC DIAGRAM \ПРИНЦИПИАЛЬНАЯ СХЕМА ТАЙМЕРА

TV DEMODULATOR PACK SCHEMATIC DIAGRAM\ПРИНЦИПИАЛЬНАЯ СХЕМА ДЕМОДУЛЯТОРА

EXPLODED VIEWS & MECHANICAL PARTS LIST \СБОРОЧНЫЕ ЧЕРТЕЖИ И СПИСОК МЕХАНИЧЕСКИХ ЗАПАСНЫХ ЧАСТЕЙ

CHASSIS PARTS SECTION (1)\ШАССИ, СЕКЦИЯ 1

CHASSIS PARTS SECTION (2)\ШАССИ, СЕКЦИЯ 2

PACKING PARTS SECTION\УПАКОВОЧНЫЕ МАТЕРИАЛЫ

CASING PARTS SECTION\КОРПУС

ELECTRICAL REPLACEMENT PARTS LIST \СПИСОК ЭЛЕКТРИЧЕСКИХ ЗАПАСНЫХ ЧАСТЕЙ

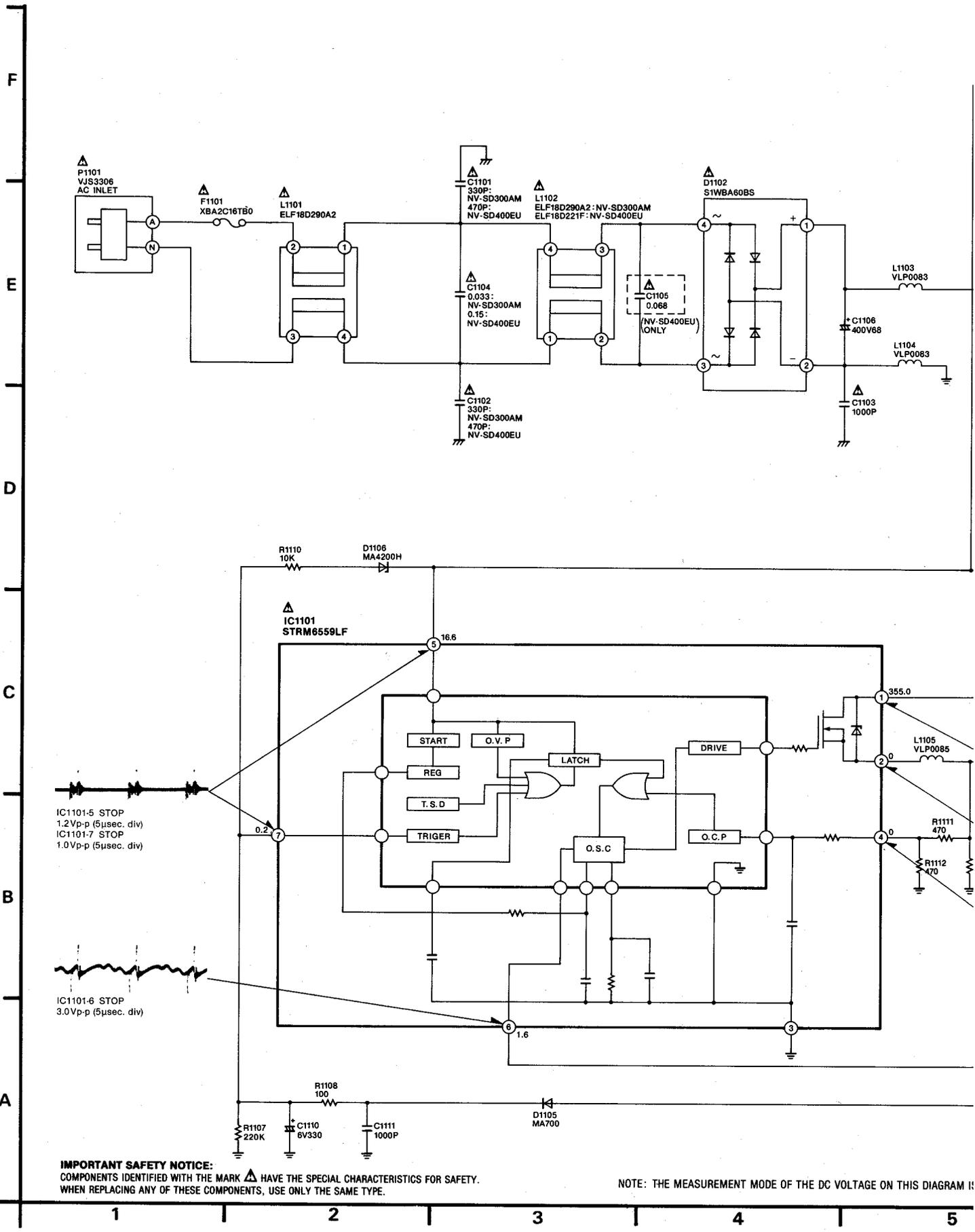
Panasonic

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 distribution is a violation of law.

SECTION 4

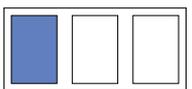
SCHEMATIC DIAGRAMS

4-1. POWER SUPPLY SECTION IN MAIN SCHEMATIC DIAGRAM

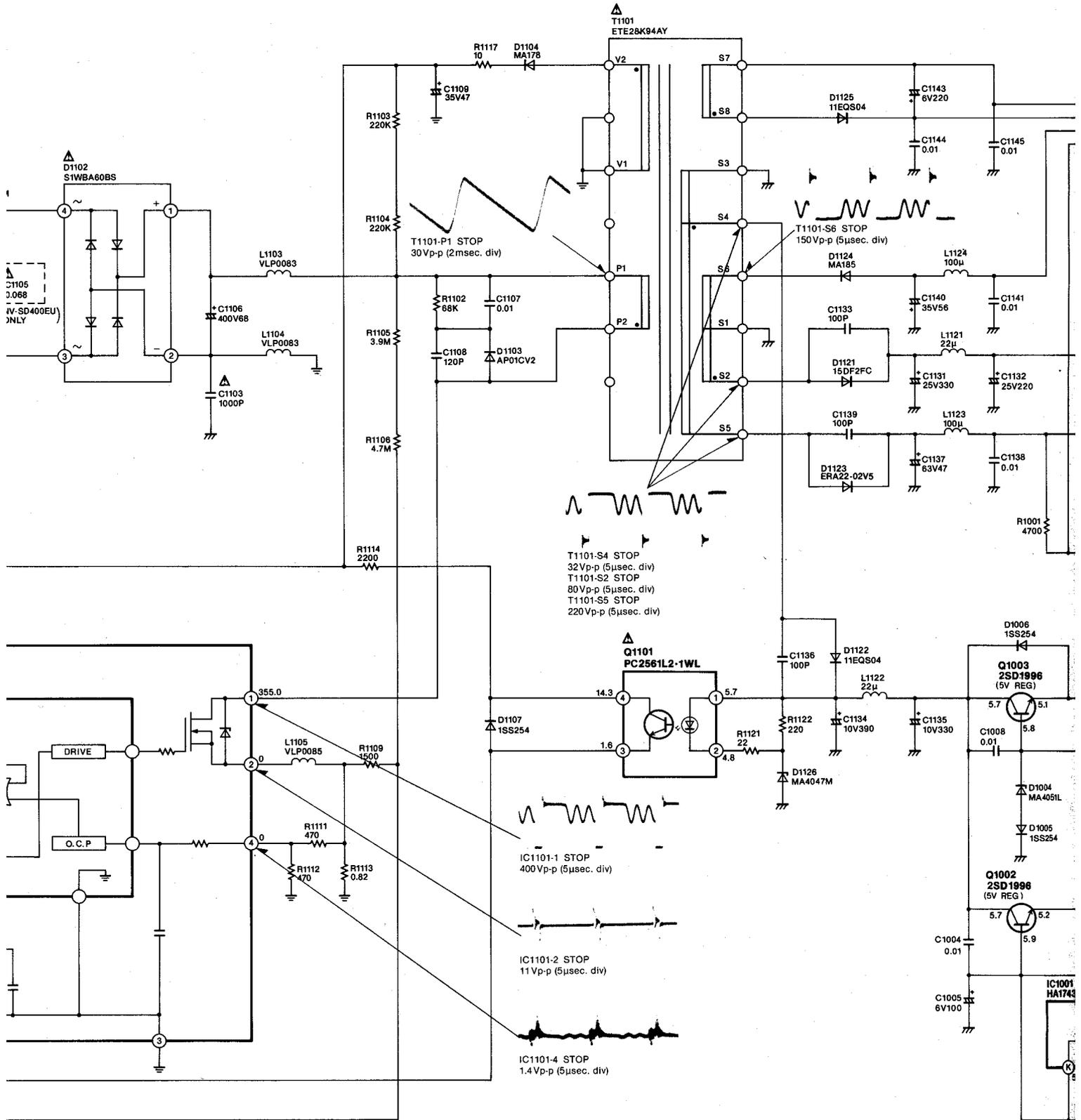


IMPORTANT SAFETY NOTICE:
 COMPONENTS IDENTIFIED WITH THE MARK Δ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
 WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS



ATTC DIAGRAM



NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.

PRIMARY SIDE \oplus
 SECONDARY SIDE ... \ominus

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

: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

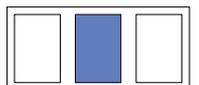
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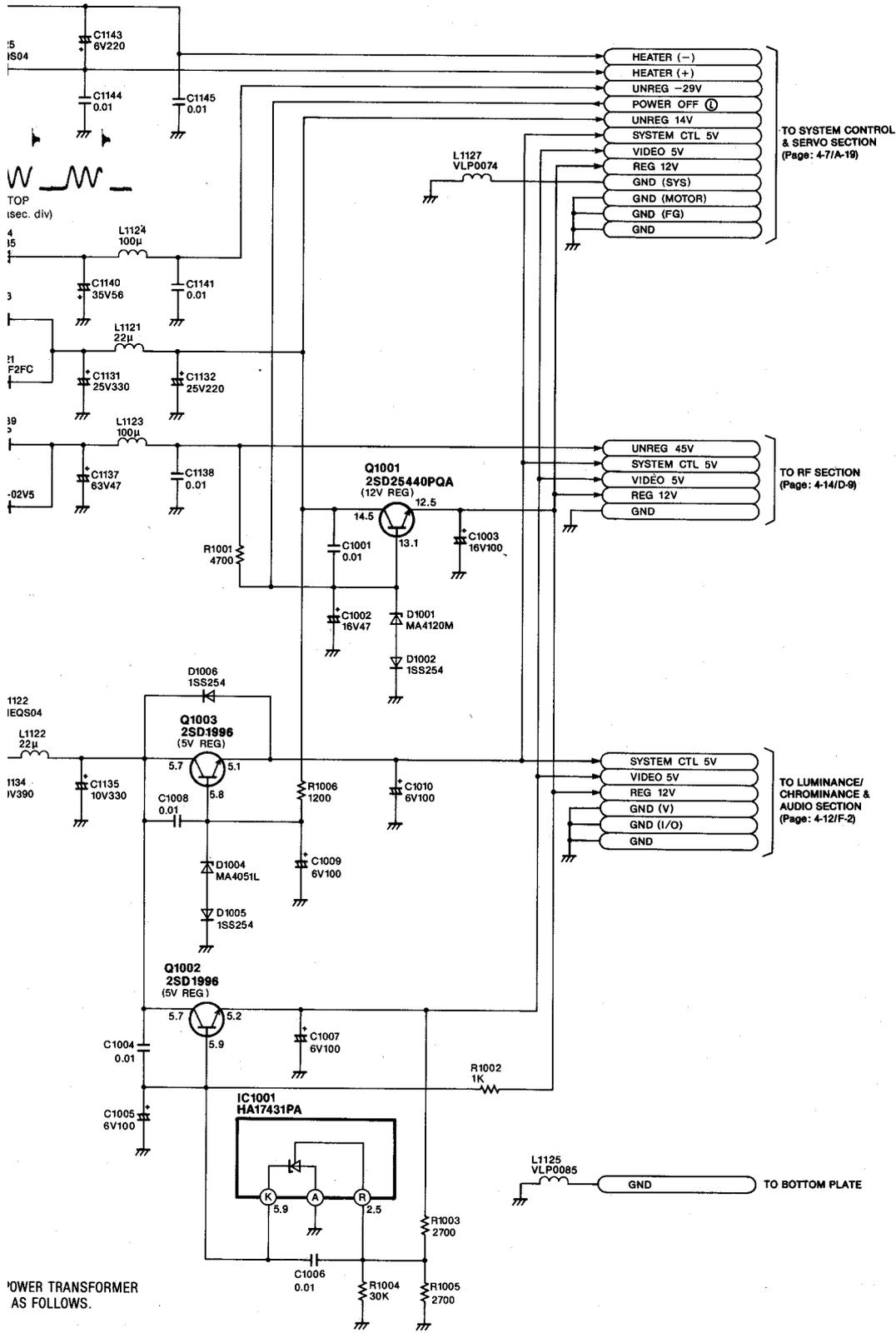
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8





POWER TRANSFORMER AS FOLLOWS.

THE VOLTAGE WHEN

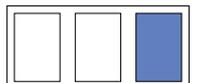
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

8

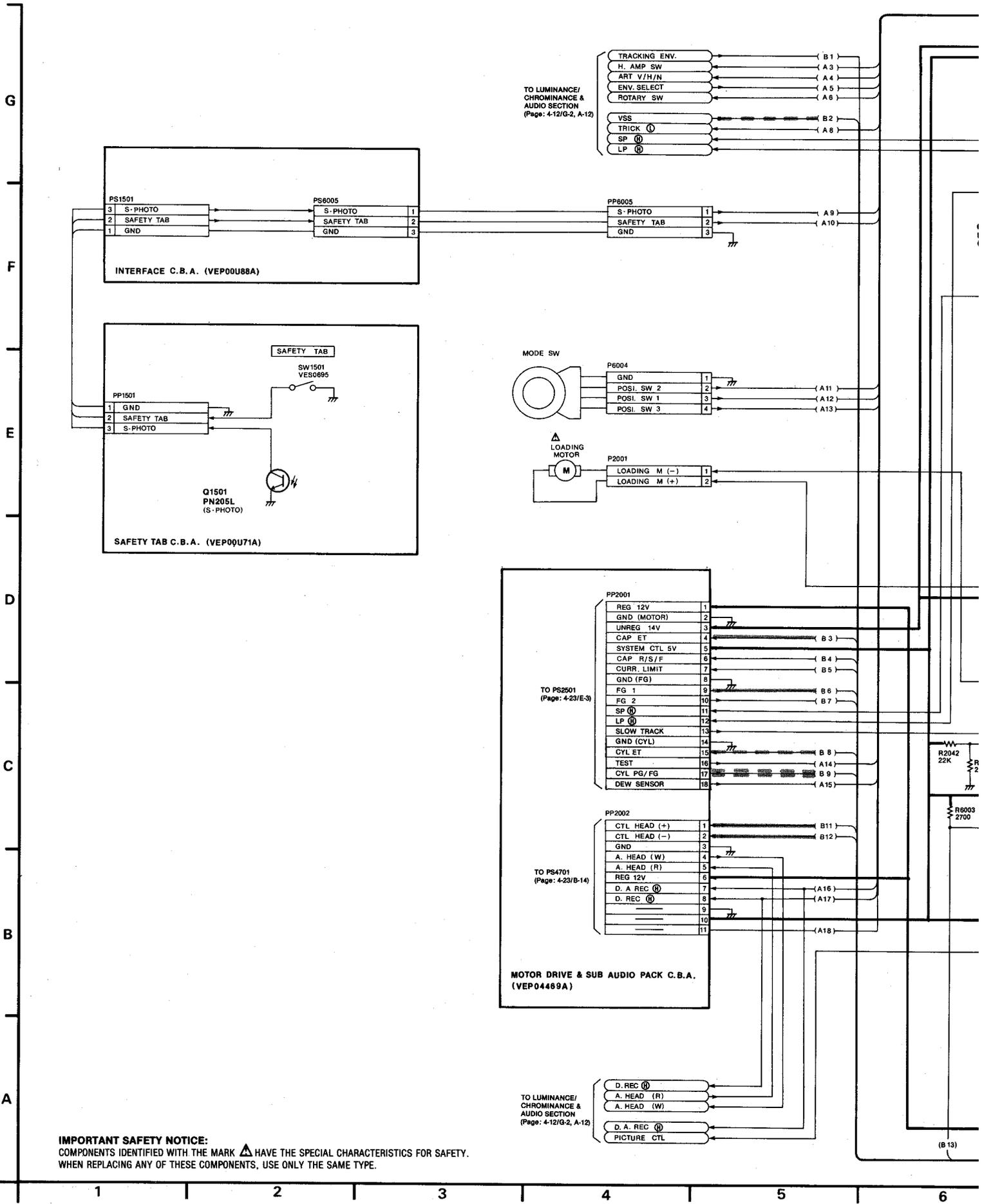
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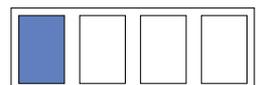
11



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

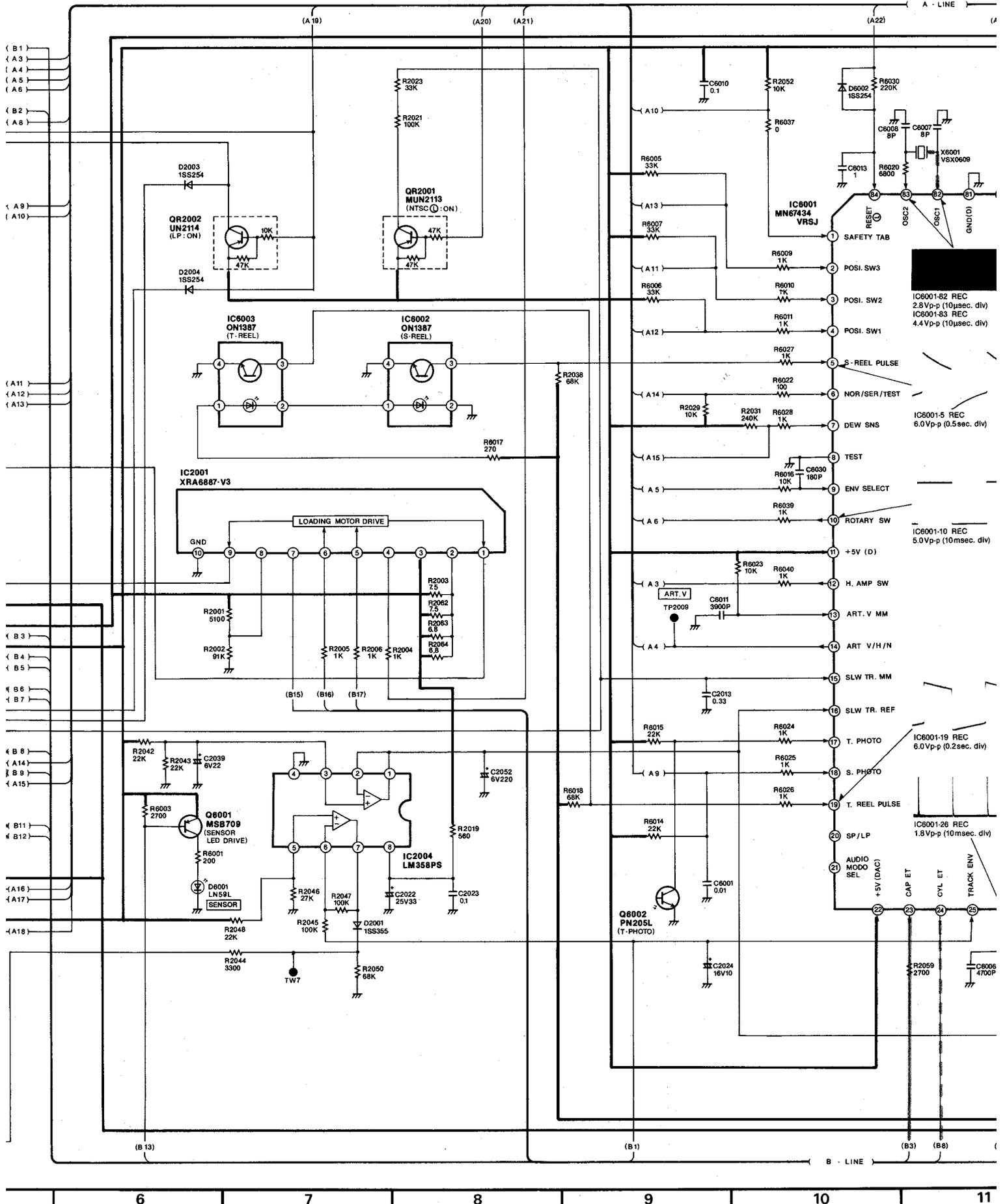


IMPORTANT SAFETY NOTICE:
 COMPONENTS IDENTIFIED WITH THE MARK HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
 WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.



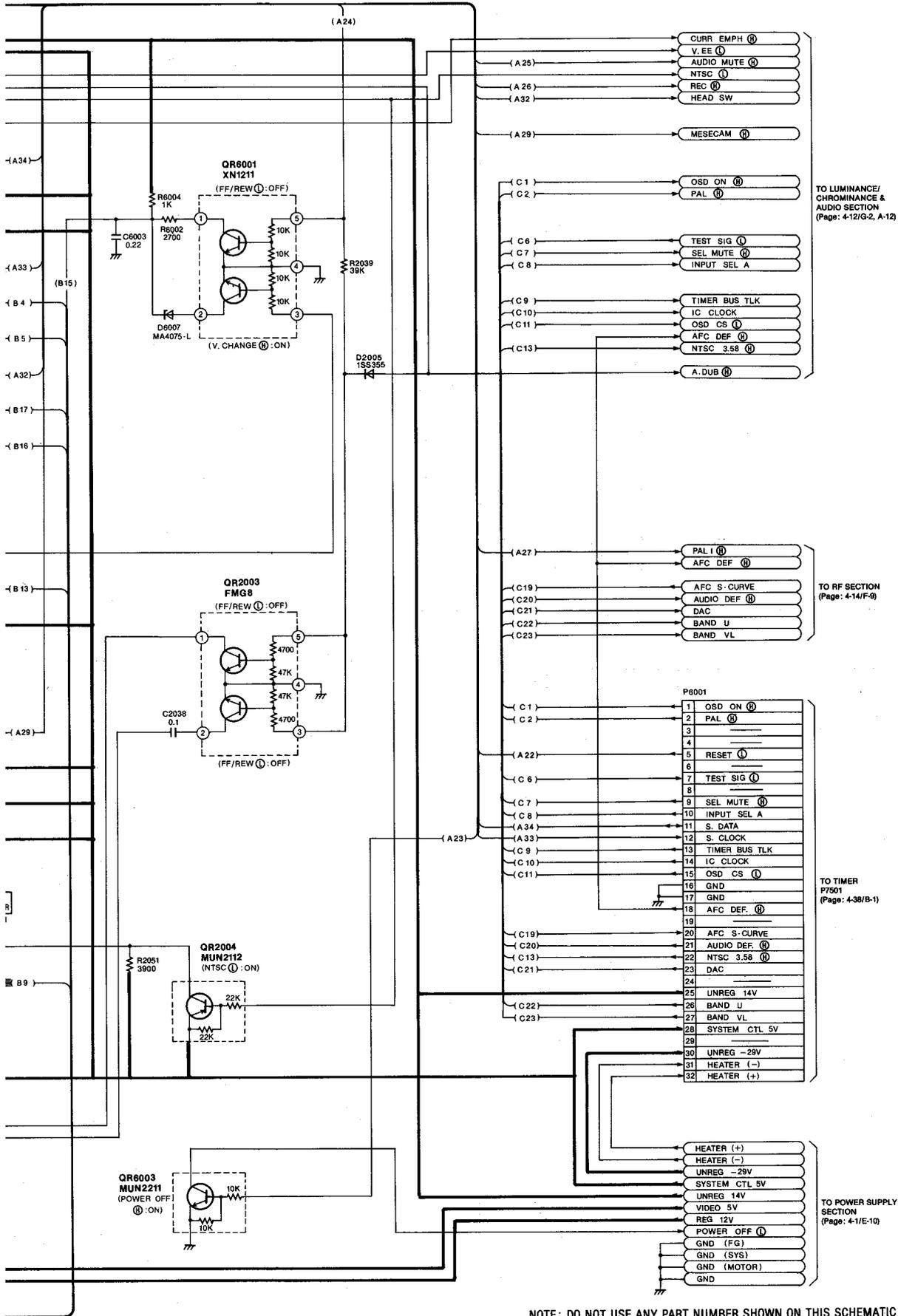
IC DIAGRAM

CAPSTAN SERVO SPEI

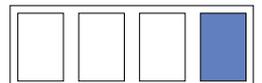


DER SERVO SPEED LOOP

----- CYLINDER SERVO PHASE LOOP



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



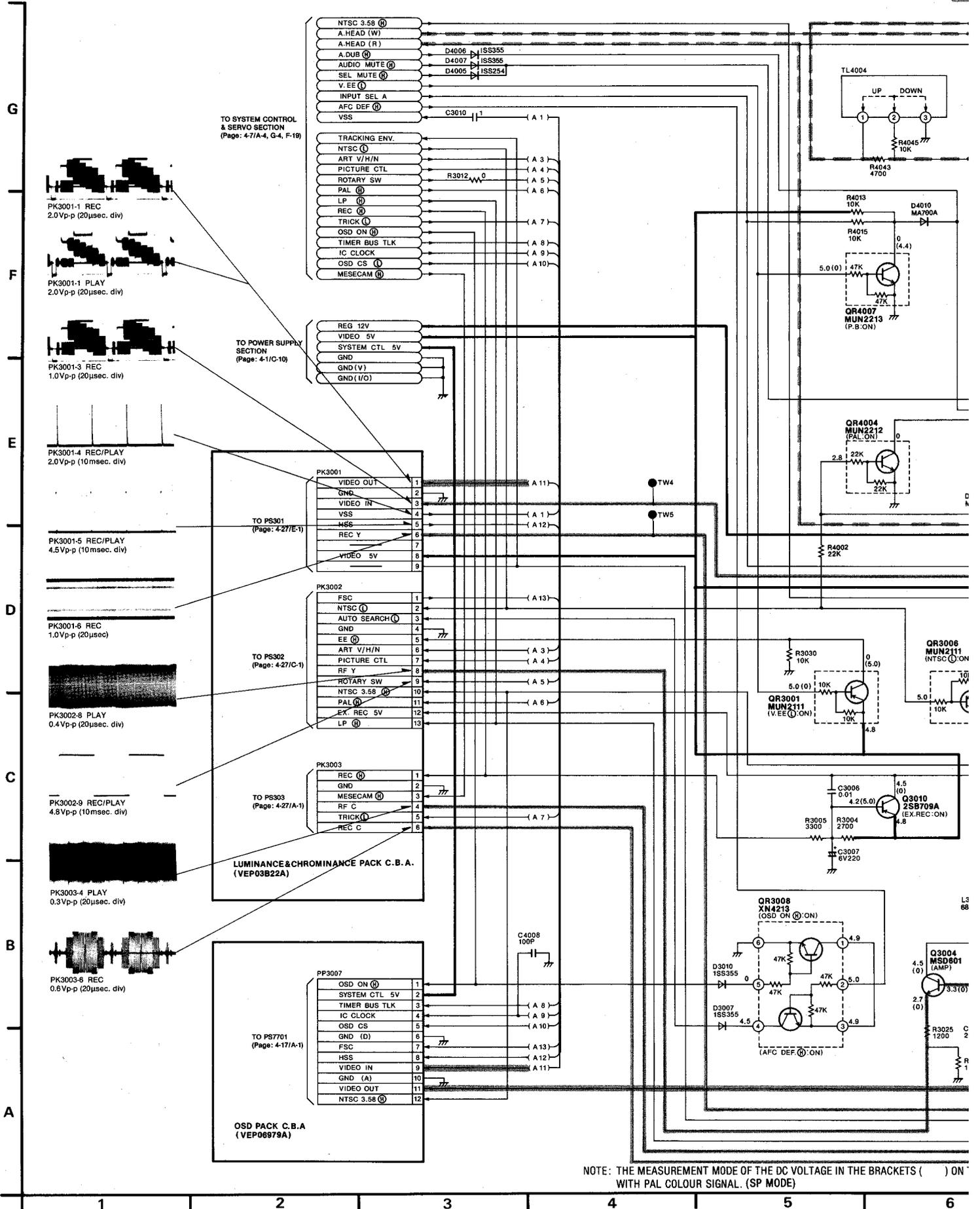
SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (SP MODE)

REF. NO. MODE	IC2001										IC2004																																																																					
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8																																																														
STOP	0.2	14.4	14.4	0	0	0	7.4	9.3	0.1	0	2.5	2.5	2.5	0	0	0.1	0	14.0																																																														
PLAY	0.3	14.1	14.1	0	0	0	7.4	9.1	0.5	0	2.5	2.5	2.5	0	0	1.6	0	13.7																																																														
REC	0.2	14.0	14.0	0	0	0	7.4	9.0	0.2	0	2.5	2.5	2.5	0	0	0	0	13.6																																																														
F.F	0.5	14.1	14.1	0	0	0	14.0	9.1	0.5	0	2.5	2.5	2.5	0	0	1.0	0	13.6																																																														
REW	0.3	14.1	14.1	0	0	0	14.1	9.1	0.3	0	2.5	2.5	2.5	0	0	1.4	0	13.7																																																														
REF. NO. MODE	IC6001																																																																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20																																																												
STOP	0	5.0	0	0	0	5.0	0	0	0.2	2.5	5.0	0	0.1	0	0	2.5	5.0	4.9	0	0																																																												
PLAY	0	5.0	0	0	5.0	5.0	0	0	3.8	2.5	5.0	0	0.1	0	0	2.5	5.0	4.7	0	0																																																												
REC	0	5.0	0	0	5.0	5.0	0	0	4.8	2.5	5.0	0	0.1	0	0	2.5	4.9	4.3	4.1	0																																																												
F.F	0	5.0	0	0	2.3	5.0	0	0	2.3	2.5	5.0	0	0.1	0	0	2.5	0	4.8	2.3	0																																																												
REW	0	5.0	5.0	0	2.3	5.0	0	0	2.8	2.5	5.0	0	0.1	0	0	2.5	5.0	4.8	2.3	0																																																												
REF. NO. MODE	IC6001																																																																															
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40																																																												
STOP	5.0	5.0	0.1	2.5	0.2	2.5	2.5	2.5	0	2.5	2.4	2.7	5.0	0	0	0	2.5	2.5	0	2.5																																																												
PLAY	5.0	5.0	2.5	2.5	3.1	2.5	2.5	2.5	0	2.5	0	2.5	5.0	0	0	0	2.5	2.5	0	2.8																																																												
REC	5.0	5.0	2.5	2.5	0	2.5	2.5	2.5	0	2.5	2.4	2.6	5.0	2.2	0	0	2.5	2.5	0	2.5																																																												
F.F	0	5.0	2.5	2.5	2.1	2.5	2.5	0	0	2.5	2.4	0	5.0	0	0	0	2.5	2.5	0	3.0																																																												
REW	5.0	5.0	2.5	2.5	2.7	2.5	2.5	2.5	0	2.5	2.4	0	5.0	0	0	0	2.5	2.5	0	0																																																												
REF. NO. MODE	IC6001																																																																															
	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60																																																												
STOP	2.6	5.0	1.1	2.9	0	4.9	0	5.0	5.0	0	4.8	5.0	5.0	5.0	5.0	0	0	0	0	2.5																																																												
PLAY	2.6	5.0	0	2.9	2.5	4.9	0	5.0	5.0	0	4.8	5.0	5.0	0.1	5.0	0	0	0	0	2.5																																																												
REC	2.6	5.0	1.1	2.9	0	4.9	0	5.0	5.0	0	4.8	5.0	5.0	0.1	5.0	0	0	0	0	2.5																																																												
F.F	2.6	5.0	1.1	2.9	0	4.9	0	5.0	5.0	0	4.8	0	5.0	0.1	0	0	0	0	0	2.5																																																												
REW	2.6	5.0	1.1	2.9	0	4.9	0	5.0	5.0	0	4.8	5.0	5.0	0.1	0	0	0	0	0	2.5																																																												
REF. NO. MODE	IC6001																																																																															
	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																																																												
STOP	5.0	2.1	4.5	4.2	5.0	0	0	5.0	0.1	5.0	0	5.0	0.1	0	0	5.0	0	0	5.0	0																																																												
PLAY	5.0	0	4.5	4.3	5.0	0	0	0	0.1	5.0	0	0	0	0	0	5.0	0	0	0	0																																																												
REC	5.0	0	4.5	4.3	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0.1	0	0	5.0	0	0	5.0	0																																																												
F.F	5.0	0	4.5	4.3	5.0	0	0	5.0	0	5.0	0	0	0.1	0	0	0	0	0	5.0	0																																																												
REW	5.0	5.0	0	4.3	5.0	0	0	5.0	0.1	5.0	0	5.0	0.1	0	0	0	0	0	0	0																																																												
REF. NO. MODE	IC6001																																																																															
	81	82	83	84																																																																												
STOP	0	-	-	5.1																																																																												
PLAY	0	-	-	5.1																																																																												
REC	0	-	-	5.0																																																																												
F.F	0	-	-	5.0																																																																												
REW	0	-	-	5.1																																																																												

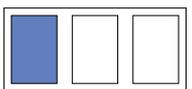
SYSTEM CONTROL & SERVO TRANSISTORS DC VOLTAGE CHART (SP MODE)

REF. NO. MODE	Q6001														
	E	C	B												
STOP	5.0	-0.1	5.0												
PLAY	5.0	5.0	4.3												
REC	5.0	5.0	4.3												
F.F	5.0	5.0	4.3												
REW	5.0	5.0	4.3												
REF. NO. MODE	QR2001			QR2002			QR2003			QR2004					
	E	C	B	E	C	B	1	2	3	4	5	E	C	B	
STOP	5.0	0	5.0	5.0	0.2	5.0	0	0	0.9	0	0.9	5.0	4.7	5.0	
PLAY	5.0	0	5.0	5.0	0.2	5.0	0	0	0.9	0	0.9	5.0	4.7	5.0	
REC	5.0	0	5.0	5.0	0.2	5.0	0	0	0.9	0	0.9	5.0	4.7	5.0	
F.F	5.0	0	5.0	5.0	0.2	5.0	0	0.7	0	0	0	5.0	4.7	5.0	
REW	5.0	0	5.0	5.0	0.2	5.0	0	0.7	0	0	0	5.0	4.7	5.0	
REF. NO. MODE	QR6001					QR6003									
	1	2	3	4	5	E	C	B							
STOP	0	0	5.0	0	5.0	0	13.1	0							
PLAY	0	0	5.0	0	5.0	0	13.1	0							
REC	0	0	5.0	0	5.0	0	13.1	0							
F.F	13.4	7.3	0	0	0	0	13.1	0							
REW	14.0	7.4	0	0	0	0	13.1	0							

4.4. LUMINANCE/CHROMINANCE & AUDIO SECTION IN MAIN SCHEMATIC



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

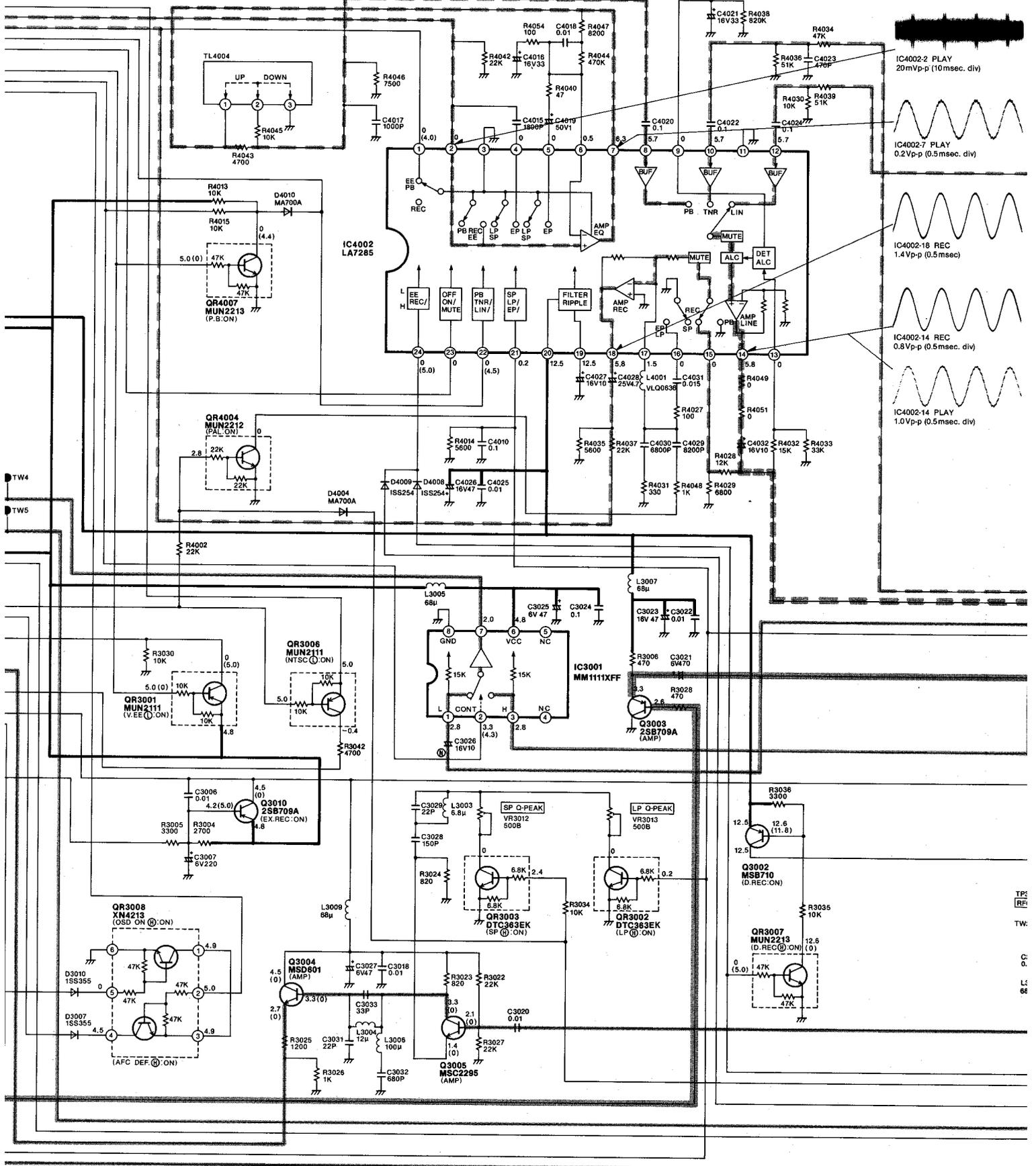


ION IN MAIN SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

— AU
— AU



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)

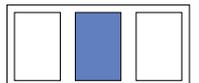
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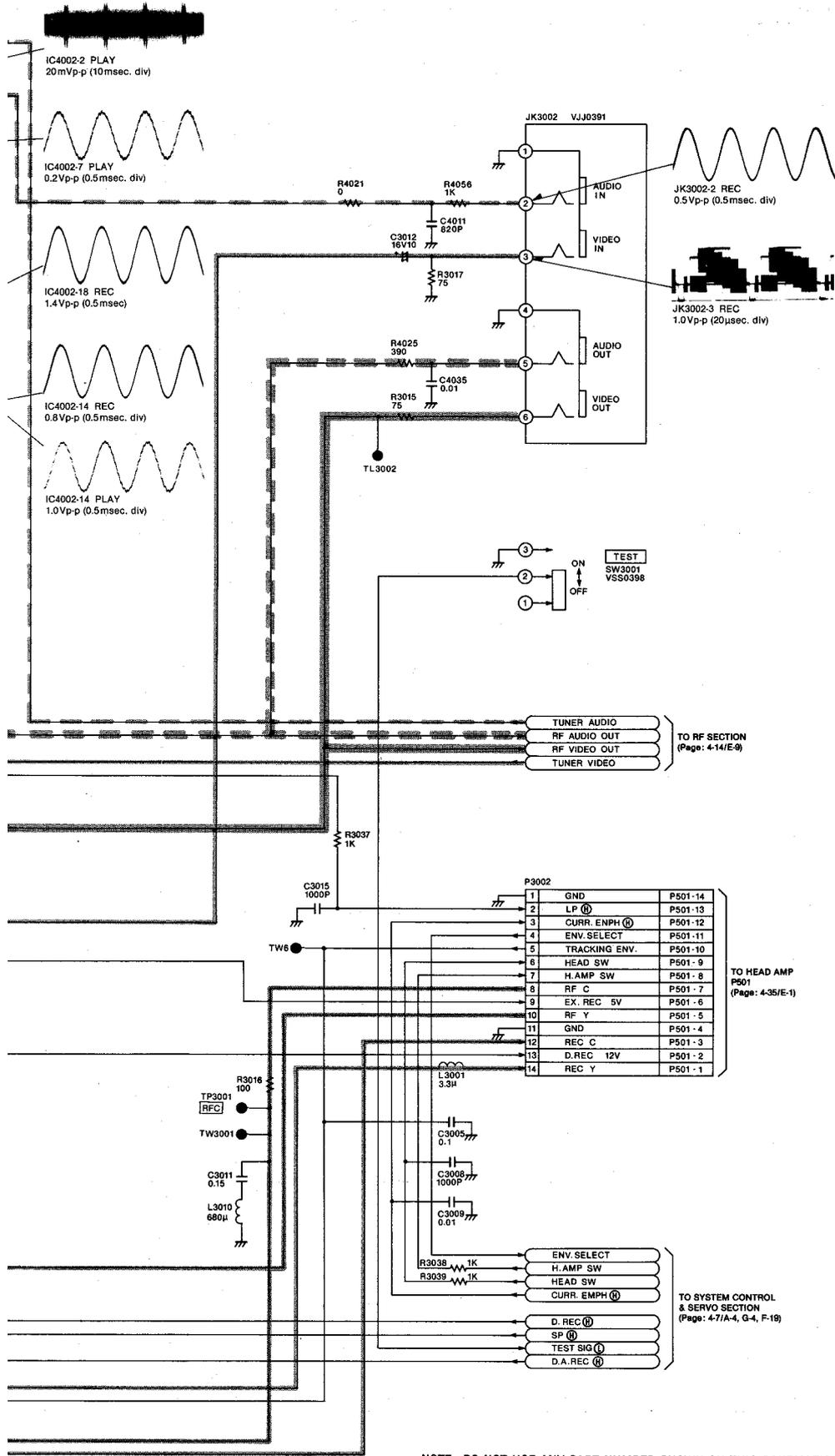
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--- AUDIO MAIN SIGNAL PATH IN REC MODE

--- AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



TUNER AUDIO
RF AUDIO OUT
RF VIDEO OUT
TUNER VIDEO

TO RF SECTION
(Page: 4-14/E-9)

TO HEAD AMP
P501
(Page: 4-35/E-1)

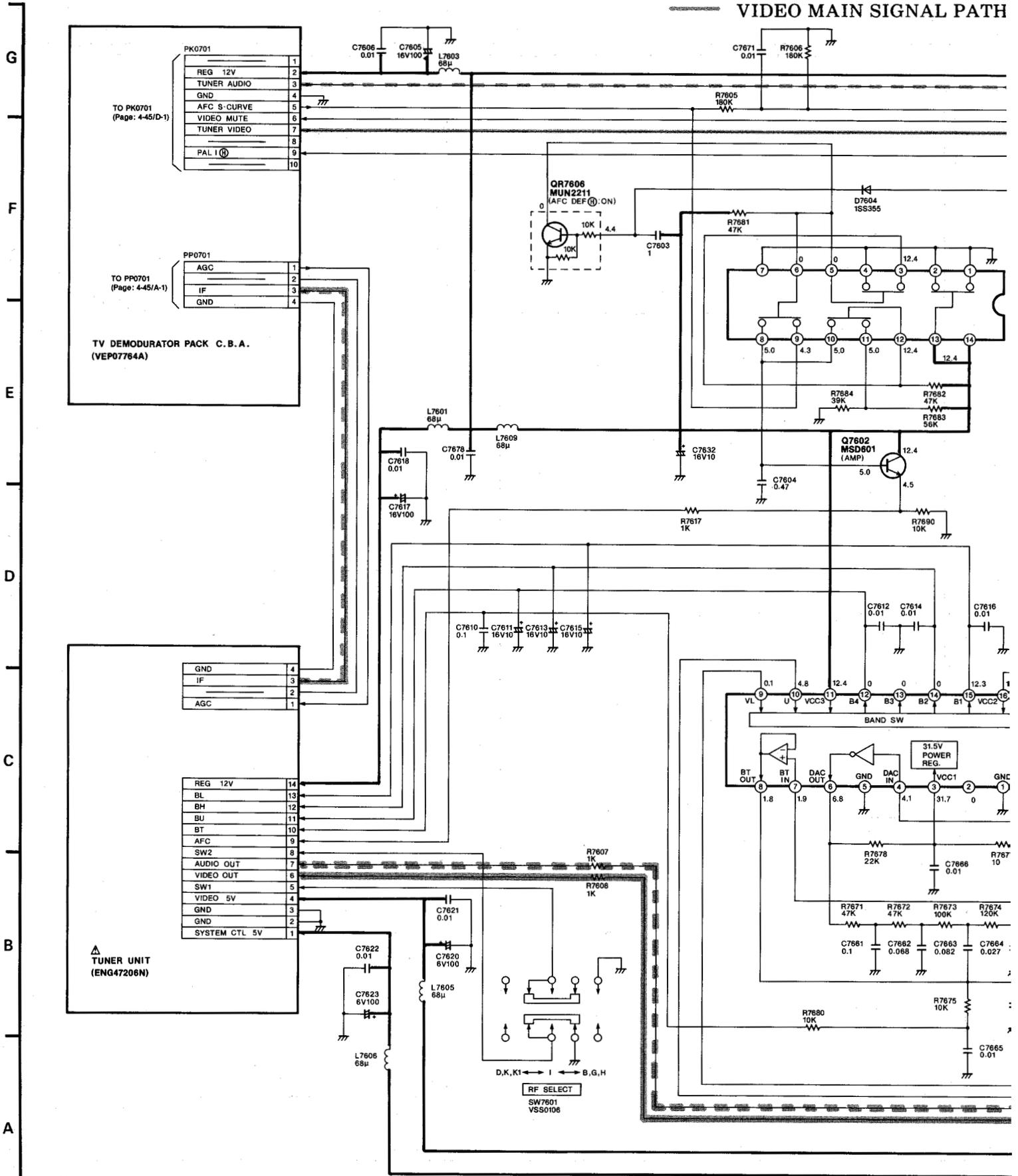
TO SYSTEM CONTROL
& SERVO SECTION
(Page: 4-7/A-4, G-4, F-19)

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



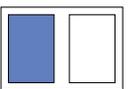
4-5. RF SECTION IN MAIN SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH
VIDEO MAIN SIGNAL PATH



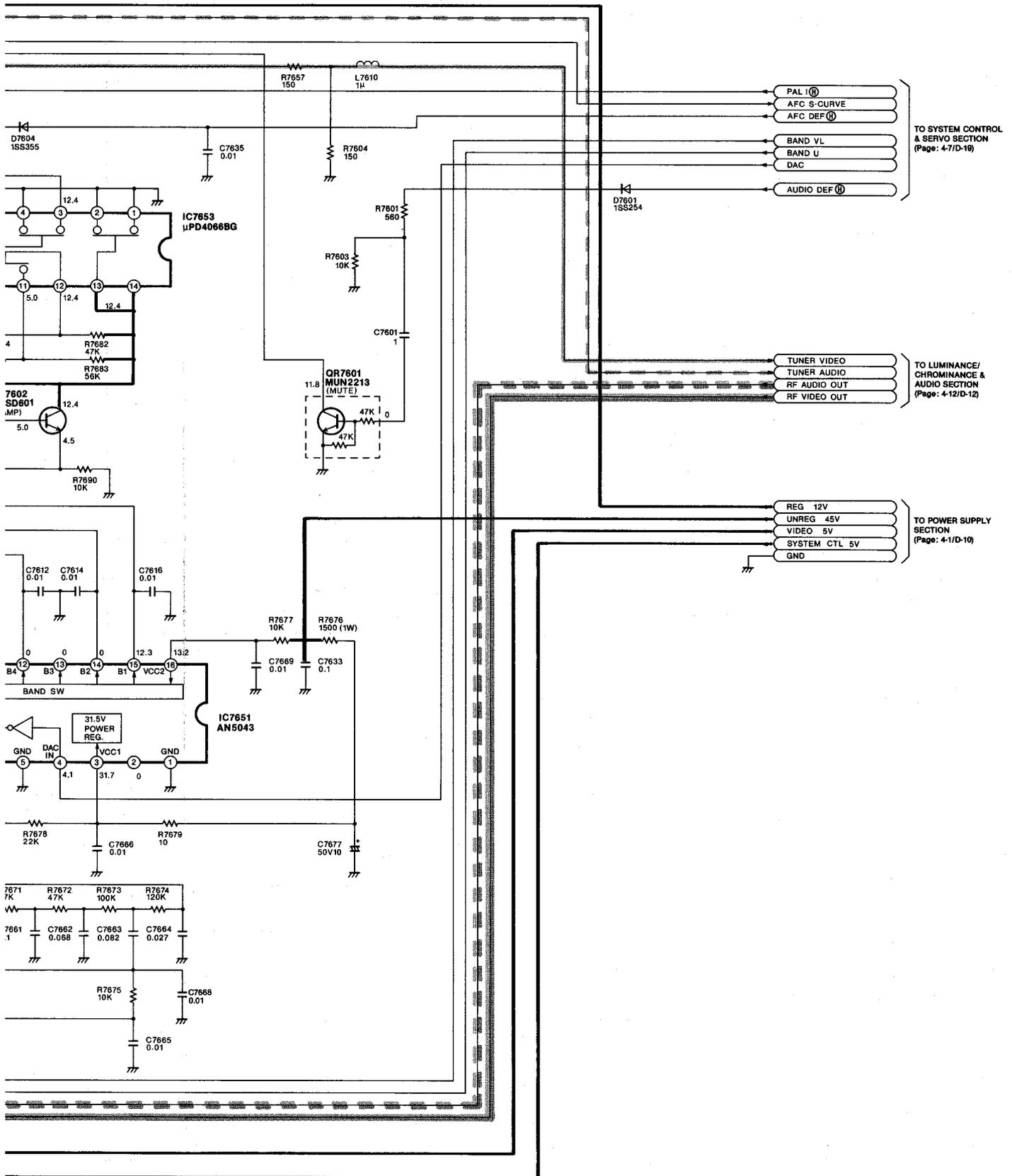
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: THE MEASUREMENT MODE OF THE DC



N SIGNAL PATH IN REC MODE
 N SIGNAL PATH IN PLAYBACK MODE

AUDIO MAIN SIGNAL PATH IN REC MODE
 AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

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

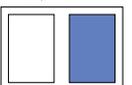
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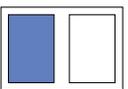
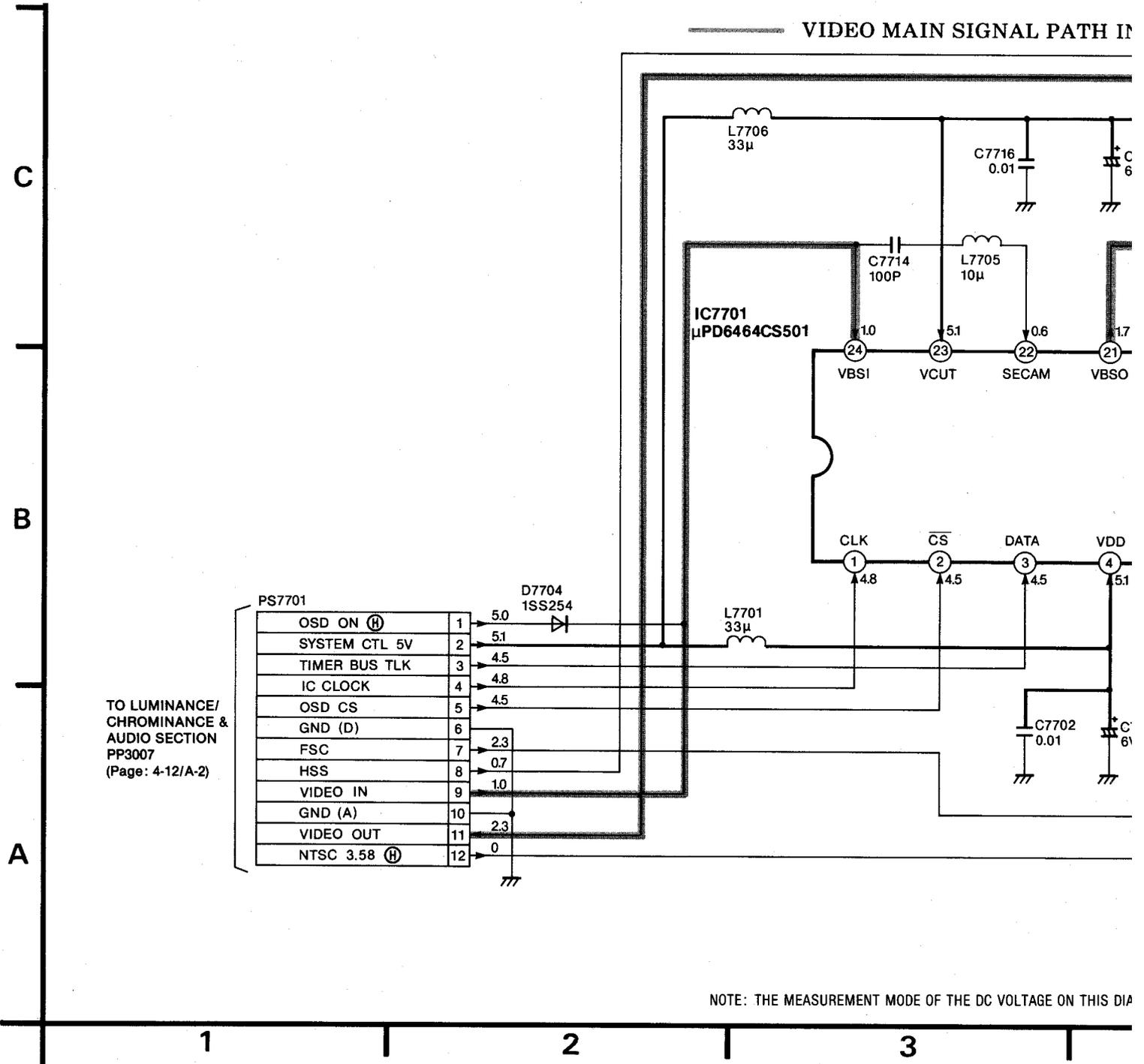
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9

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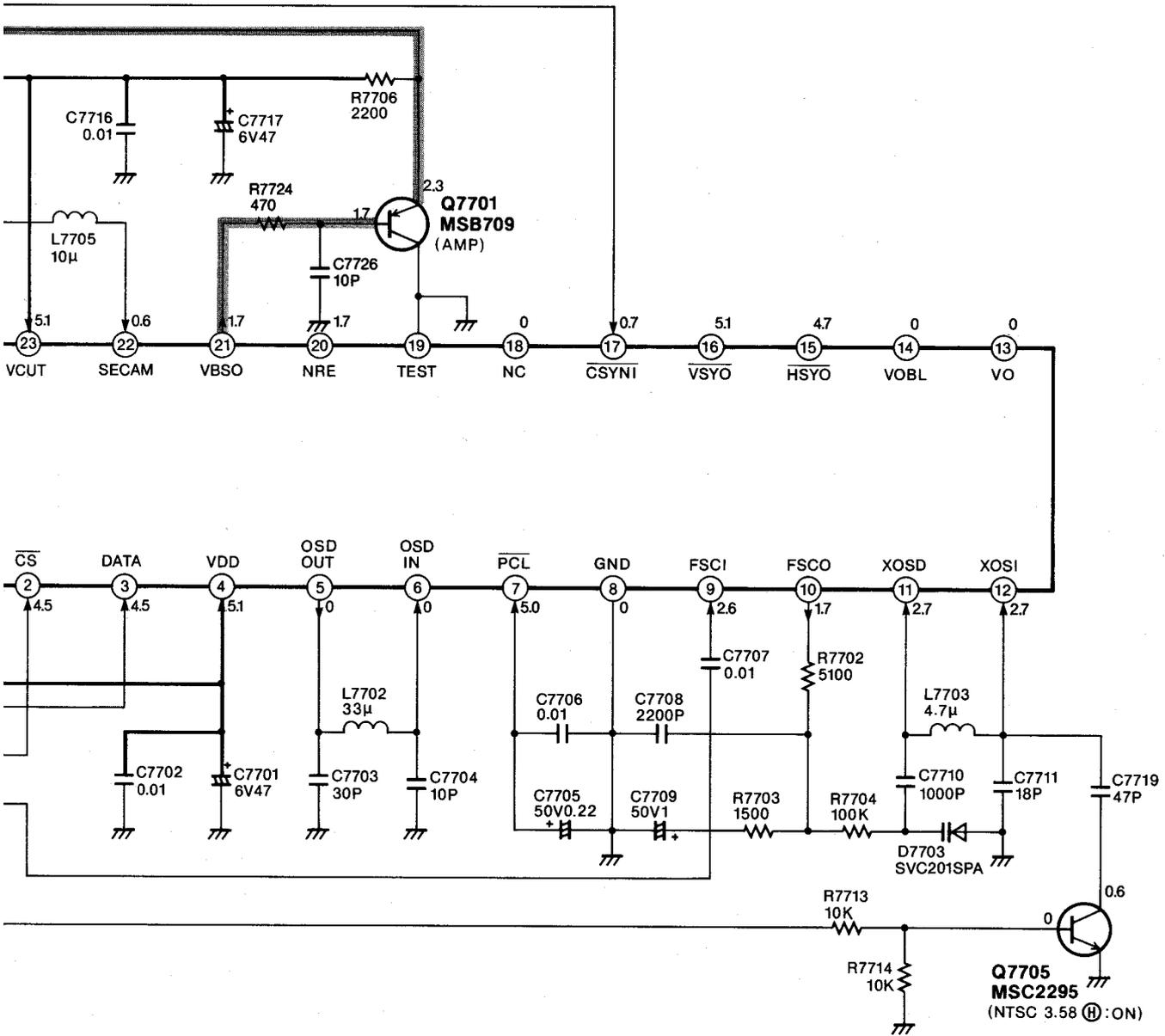


4-6. OSD PACK SCHEMATIC DIAGRAM



IN SIGNAL PATH IN REC MODE

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE



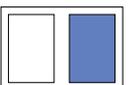
OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

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

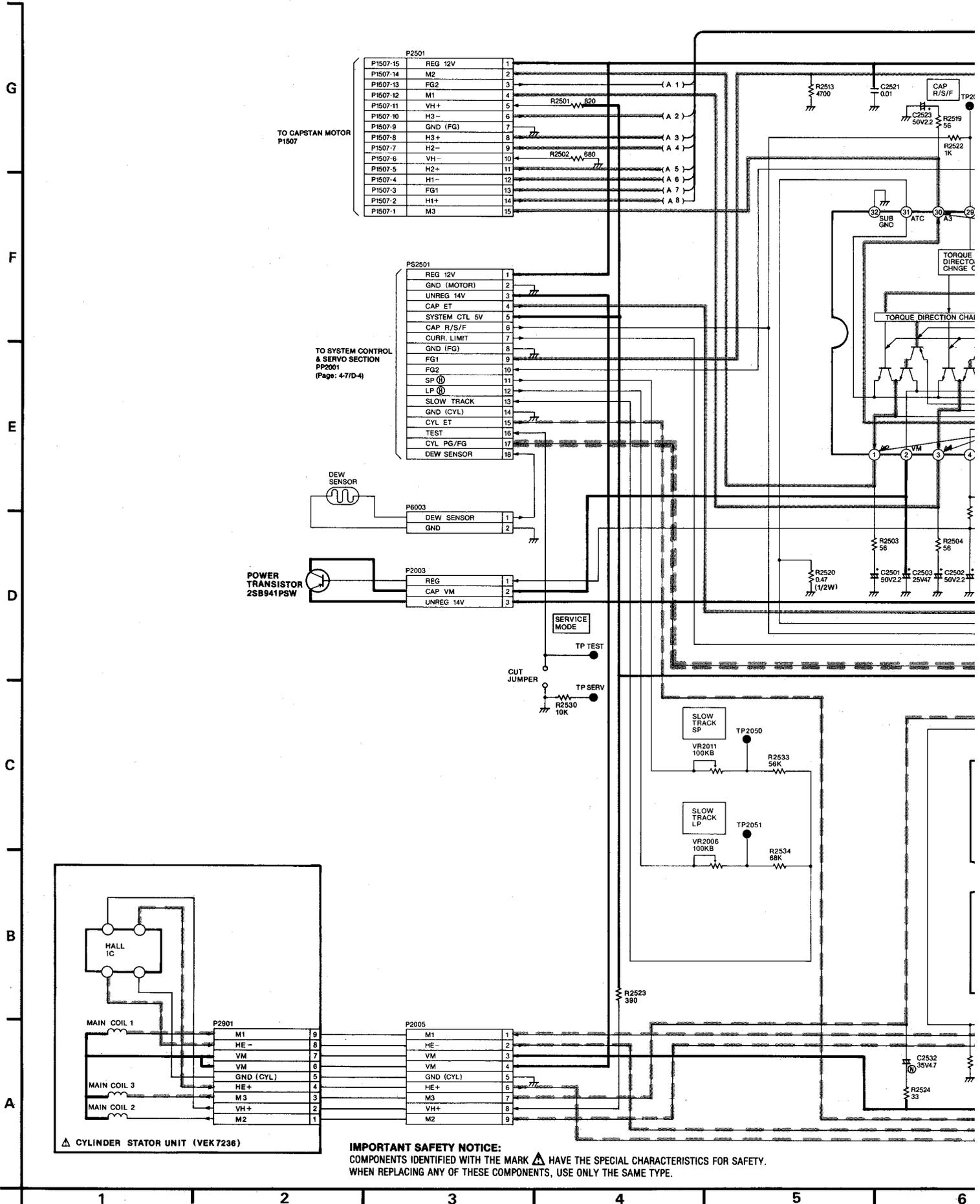
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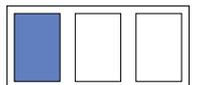
6



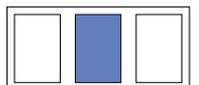
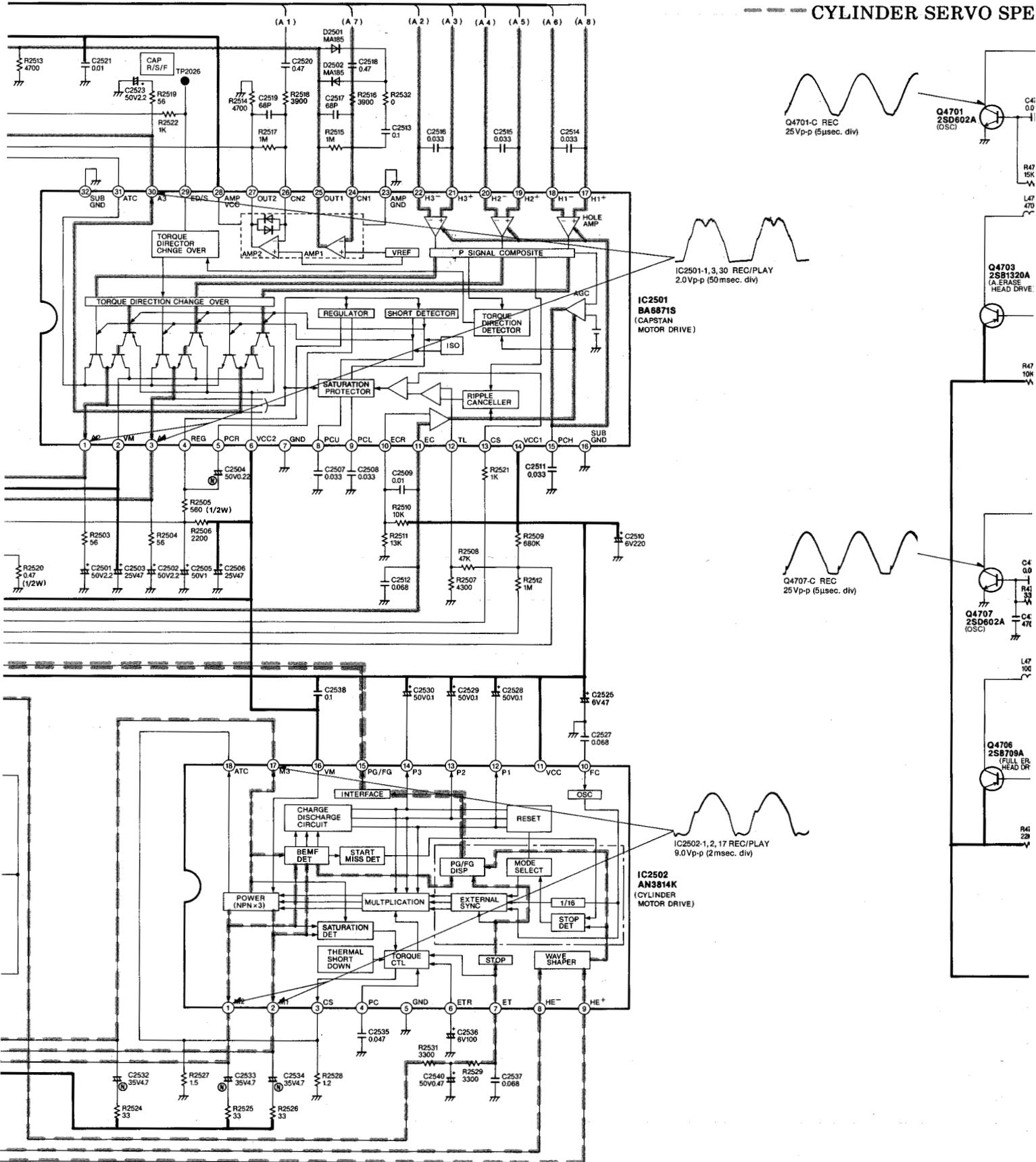
4-9. MOTOR DRIVE & SUB AUDIO PACK SCHEMATIC DIAGRAM



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.

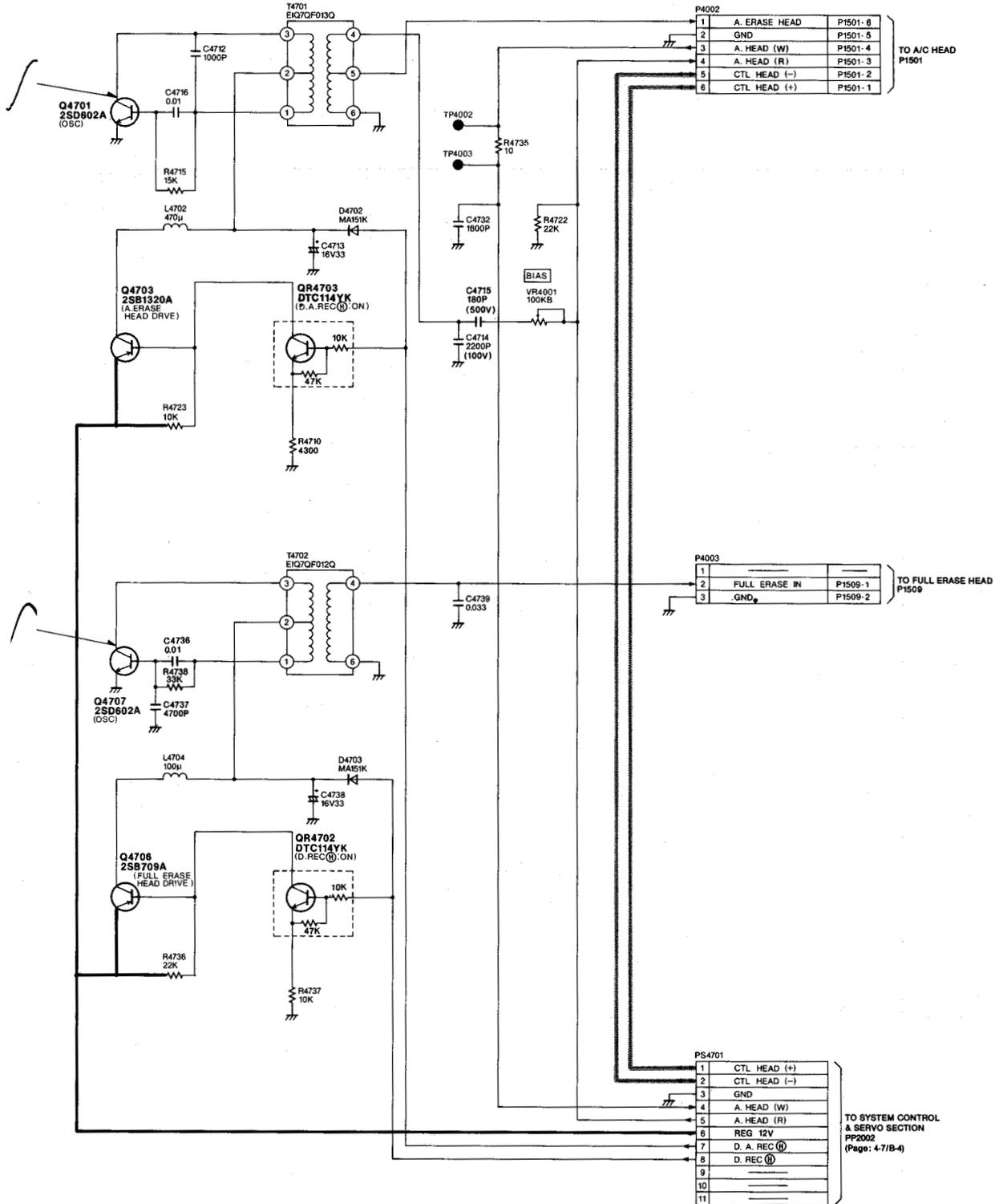


CAPSTAN SERVO SPEE
CYLINDER SERVO SPE

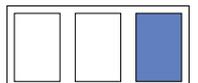


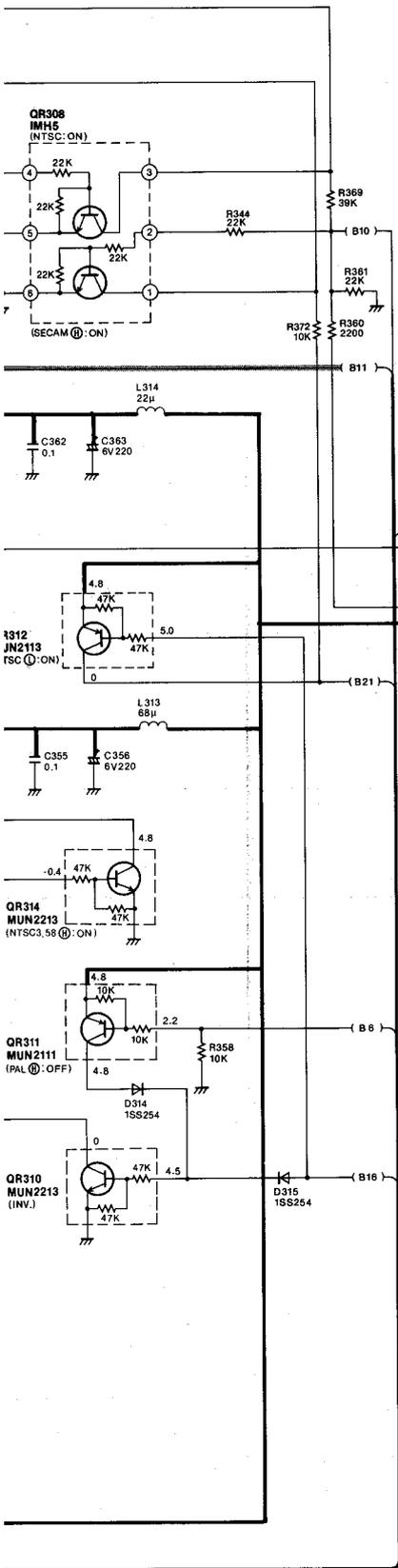
N SERVO SPEED LOOP
 ER SERVO SPEED LOOP

———— CAPSTAN SERVO PHASE LOOP
 - - - - CYLINDER SERVO PHASE LOOP

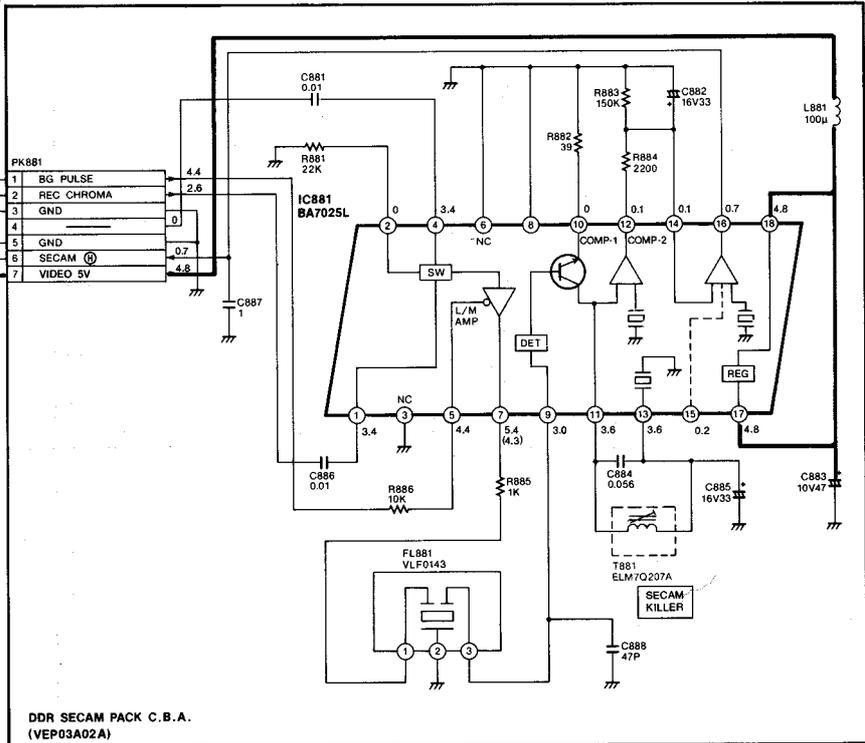


NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.



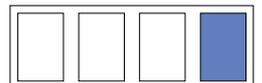


MAIN SIGNAL PATH IN REC MODE
 MAIN SIGNAL PATH IN PLAYBACK MODE

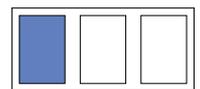
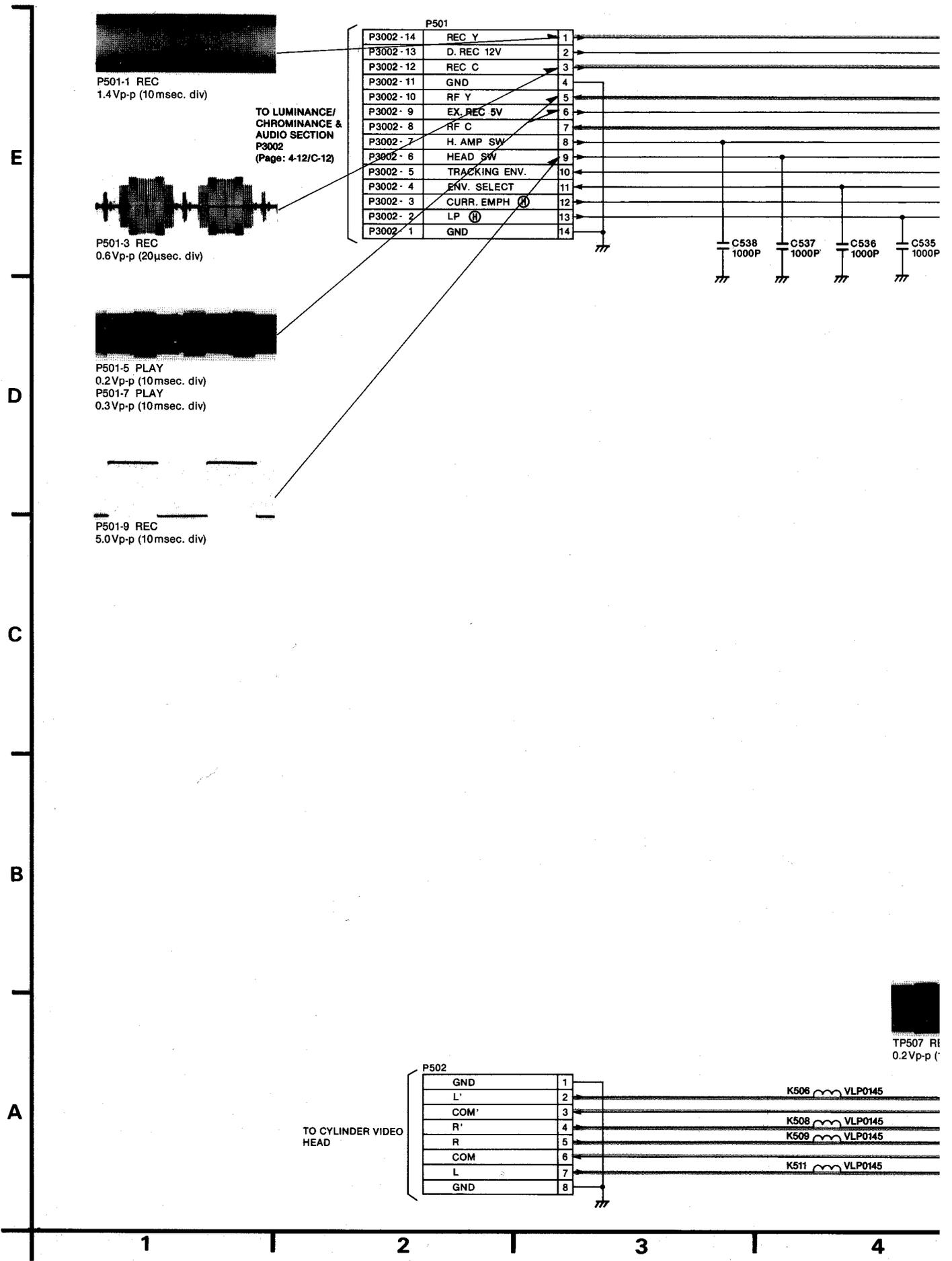


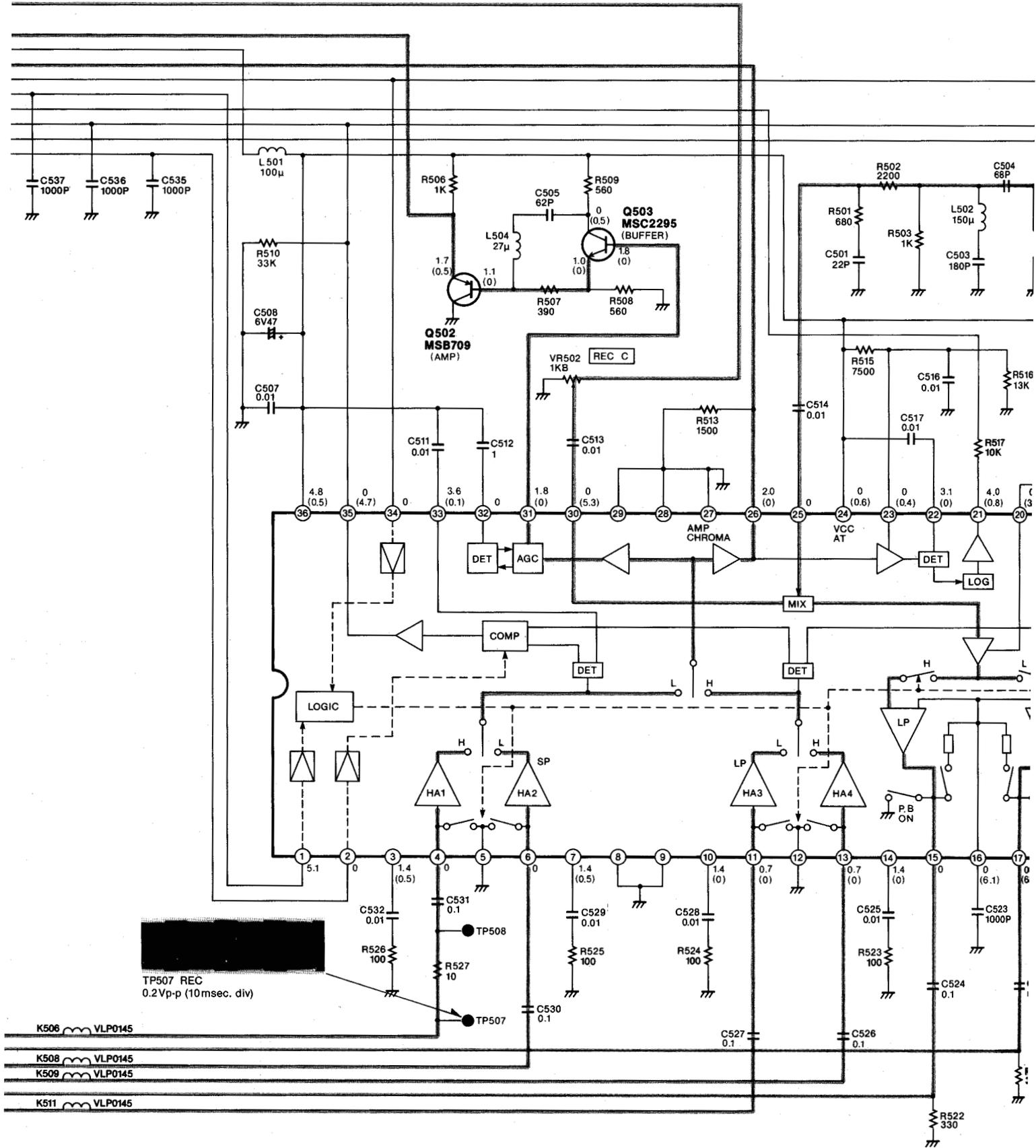
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE 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)



4-13. HEAD AMP SCHEMATIC DIAGRAM





TP507 REC
0.2Vp-p (10msec. div)

K506 VLP0145

K508 VLP0145

K509 VLP0145

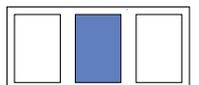
K511 VLP0145

4

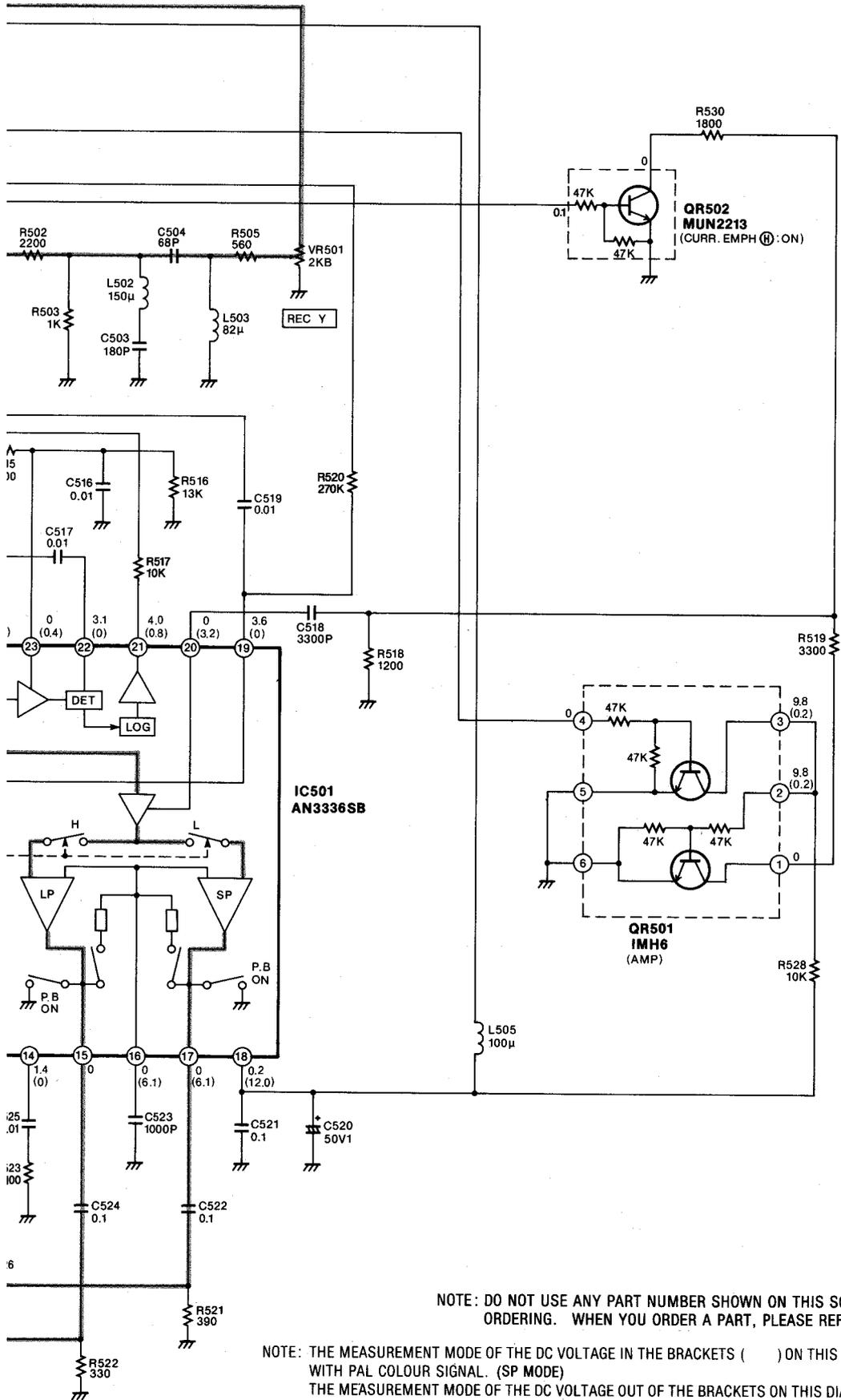
5

6

7

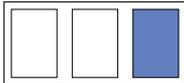


ODE VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

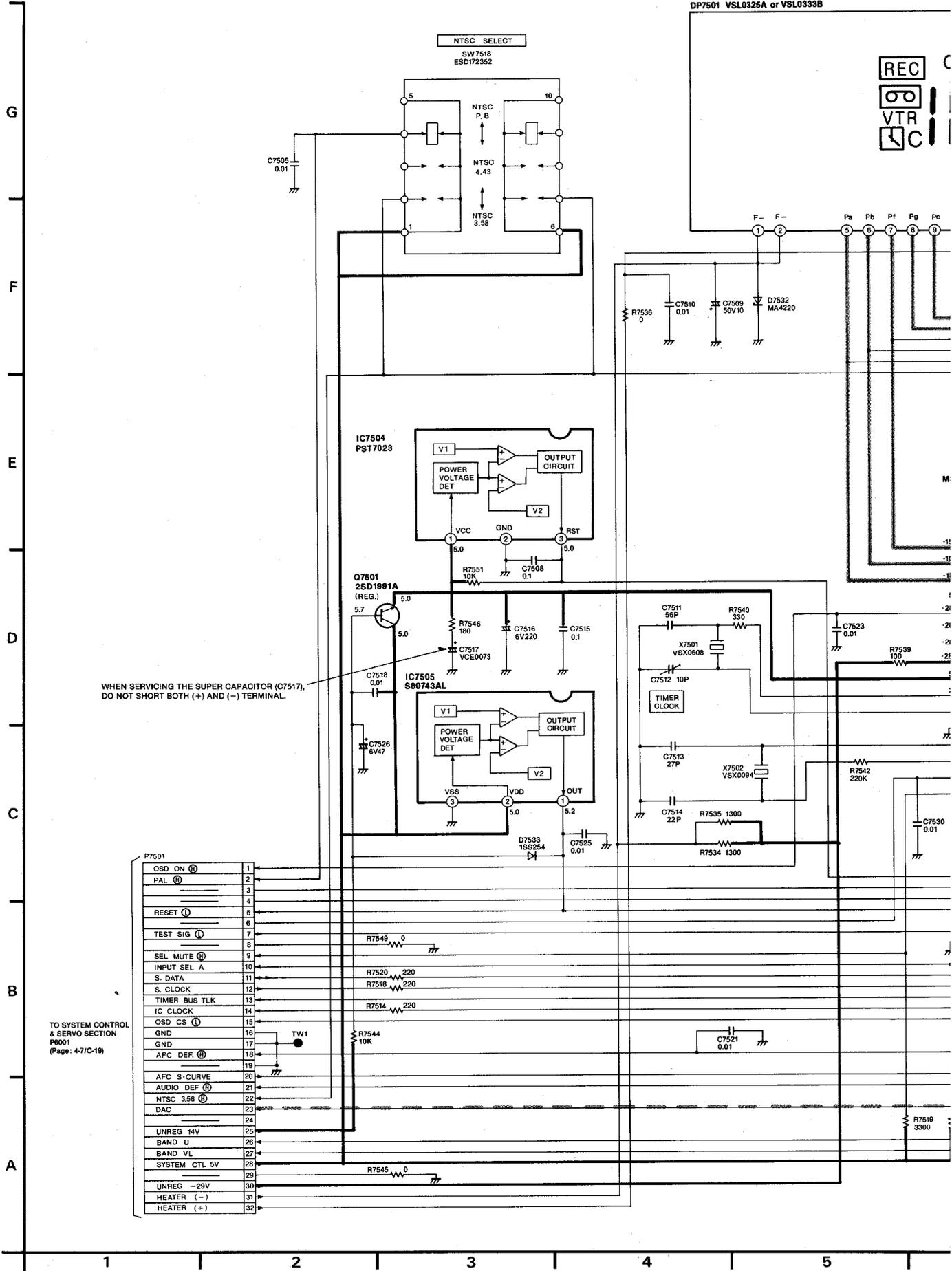


NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE 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)



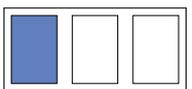
4-14. TIMER SCHEMATIC DIAGRAM



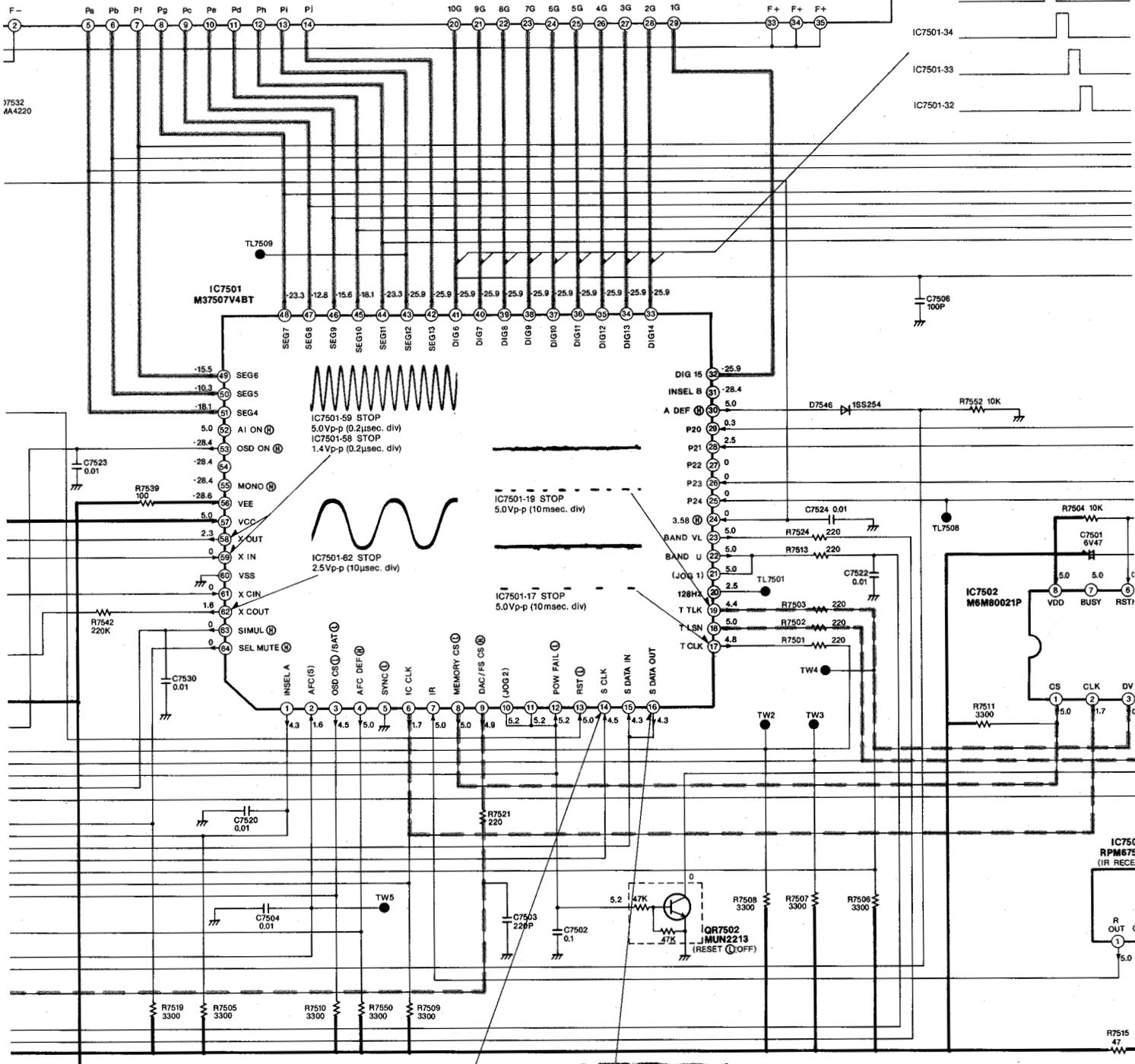
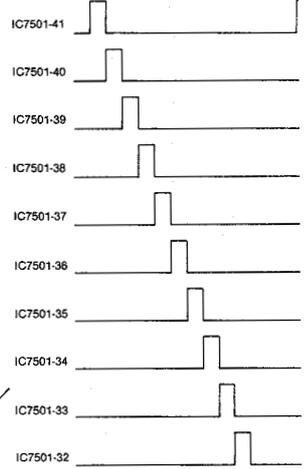
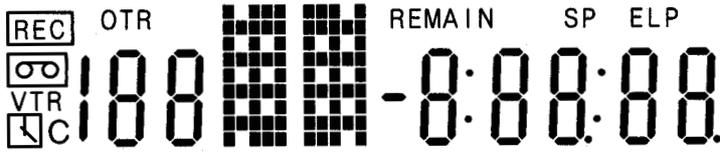
WHEN SERVICING THE SUPER CAPACITOR (C7517), DO NOT SHORT BOTH (+) AND (-) TERMINAL.

TO SYSTEM CONTROL & SERVO SECTION P8001 (Page: 4-7/C-19)

P7501	OSD ON (D)	1
	PAL (D)	2
		3
		4
	RESET (D)	5
		6
	TEST SIG (D)	7
		8
	SEL MUTE (D)	9
	INPUT SEL A	10
	S. DATA	11
	S. CLOCK	12
	TIMER BUS TLK	13
	IC CLOCK	14
	OSD CS (D)	15
	GND	16
	GND	17
	AFC DEF. (D)	18
		19
	AFC S-CURVE	20
	AUDIO DEF (D)	21
	NTSC 3.58 (D)	22
	DAC	23
		24
	UNREG 14V	25
	BAND U	26
	BAND VL	27
	SYSTEM CTL 5V	28
		29
	UNREG -29V	30
	HEATER (-)	31
	HEATER (+)	32



SEGMENT CONTROL SIGNAL

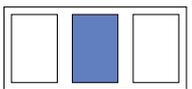


Y7532 AA4220

IC7501-14 STOP 5.0Vp-p (10msec. div)
 IC7501-16 STOP 5.0Vp-p (10msec. div)

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGR

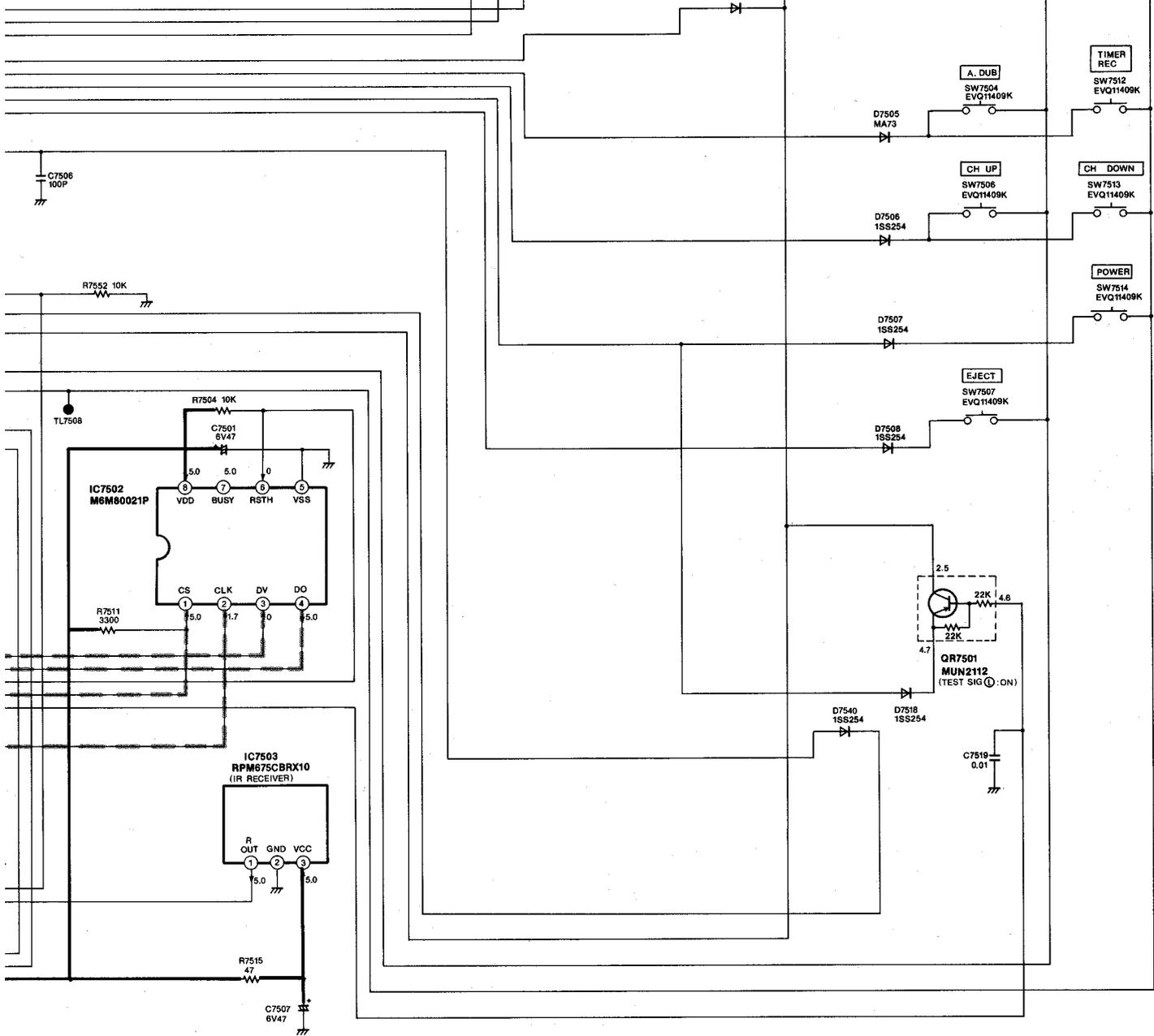
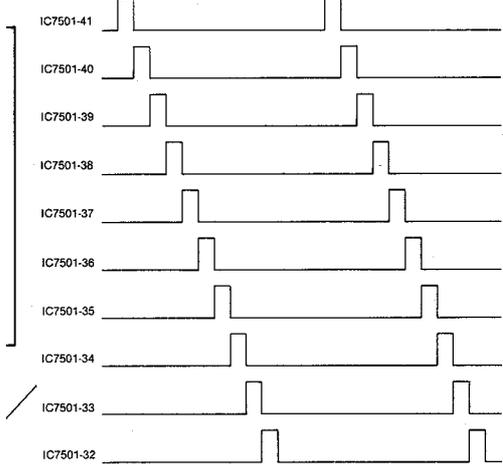
5 6 7 8 9 10



FROL SIGNAL

GRID CONTROL SIGNAL

TUNE CONTROL SIGNAL



NOTE: THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE

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

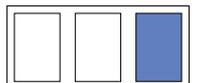
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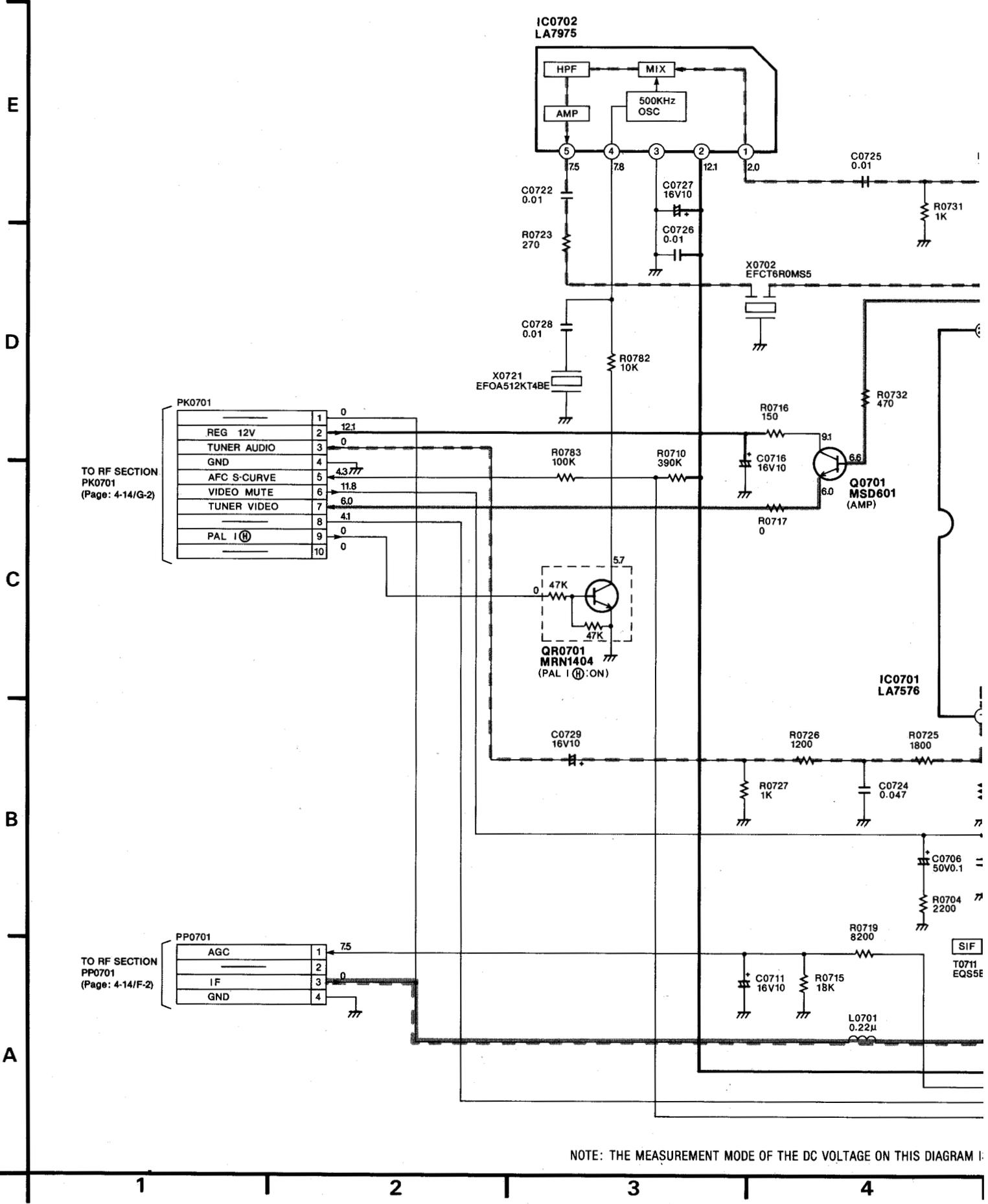
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13

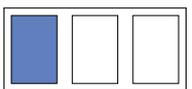
14



4-16. TV DEMODULATOR PACK SCHEMATIC DIAGRAM

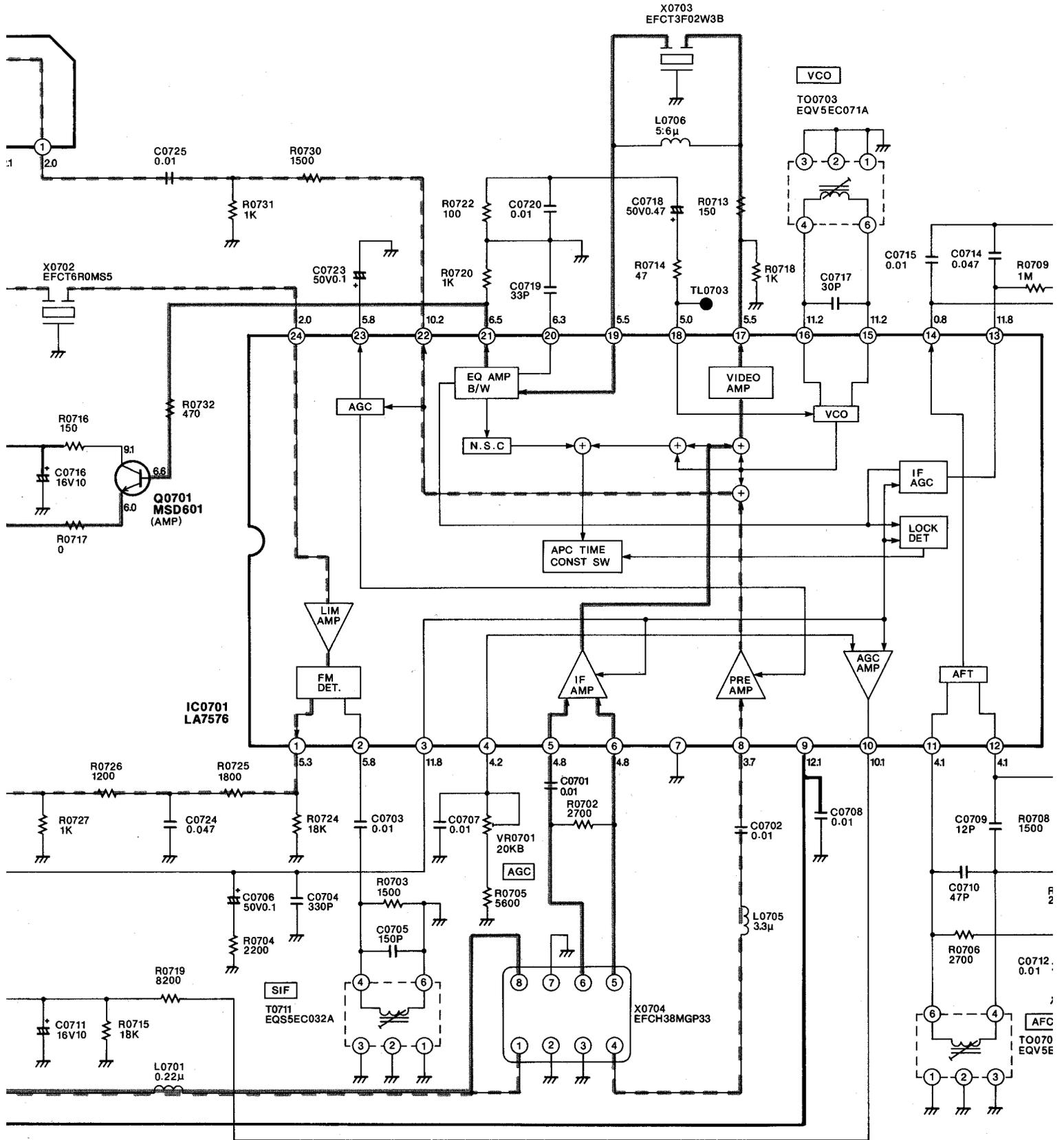


NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS:



VIDEO SIGNAL PATH

AUDIO SIGNAL PATH



VT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

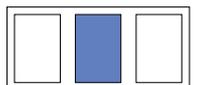
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO P.

4

5

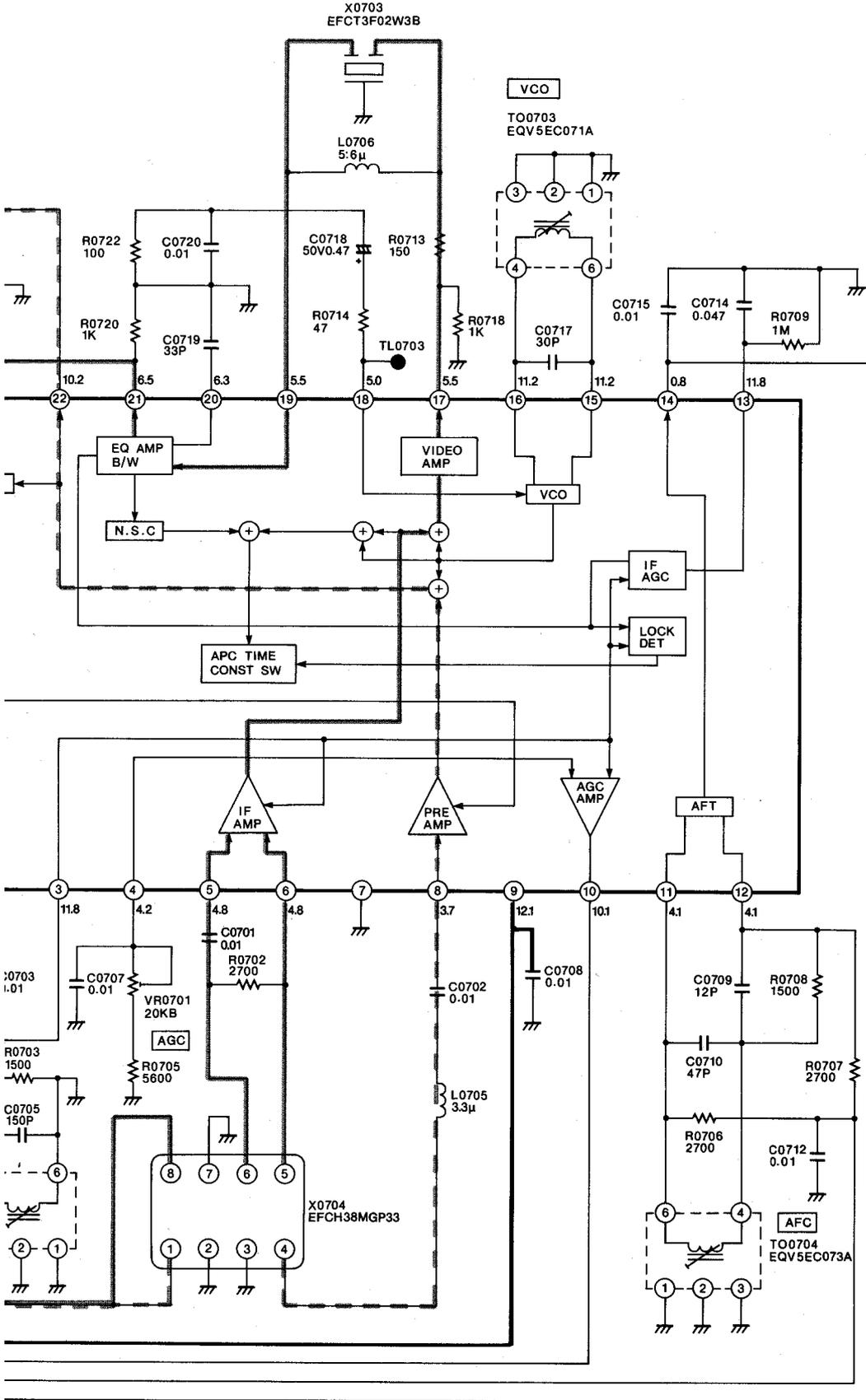
6

7



— VIDEO SIGNAL PATH

--- AUDIO SIGNAL PATH



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

5

6

7

8

