

AKAI

MODEL **VS-515U/UM**

MODEL **VS-525U**

MODEL **VS-555U/UM**

MODEL **VS-565U**

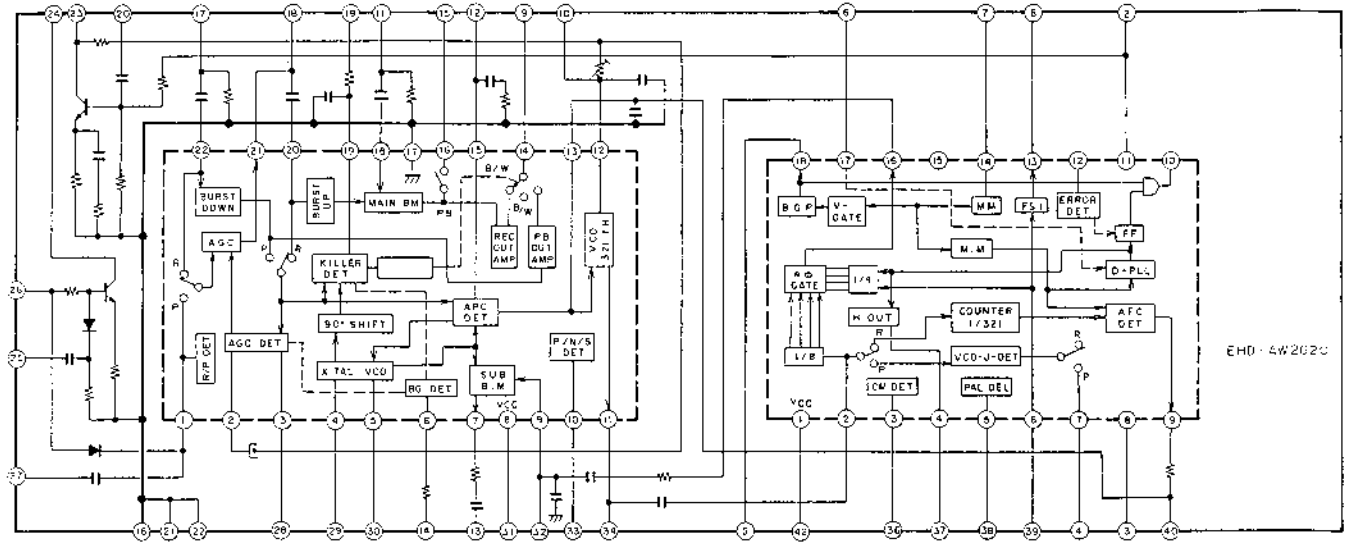
MODEL **VS-5151U**

SCHEMATIC DIAGRAM AND PC BOARDS

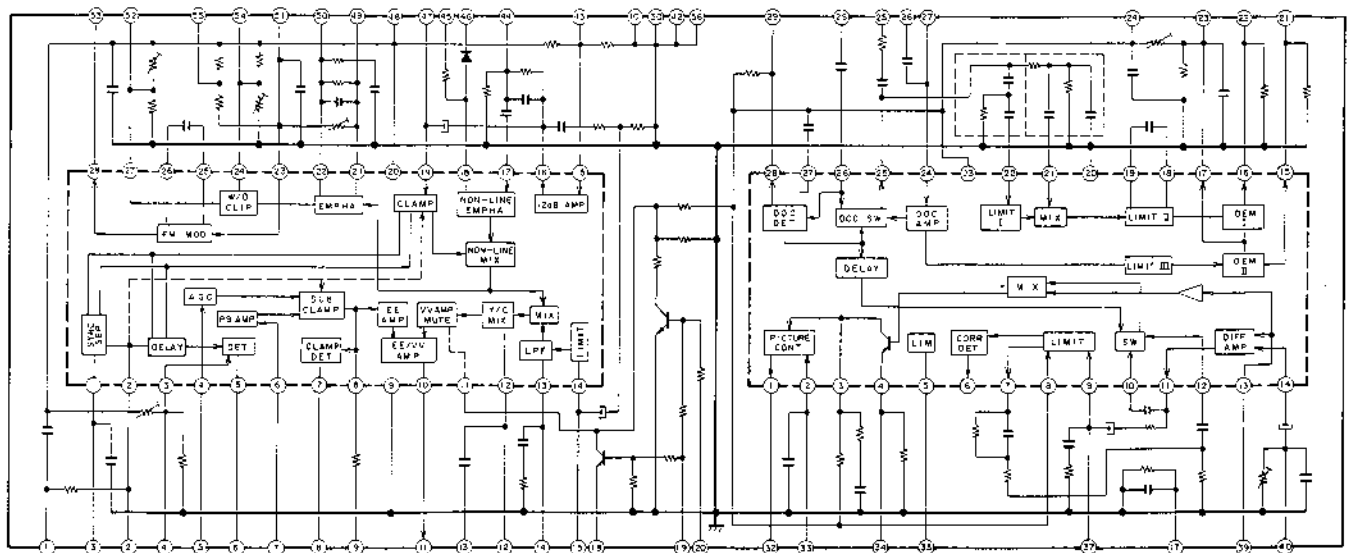
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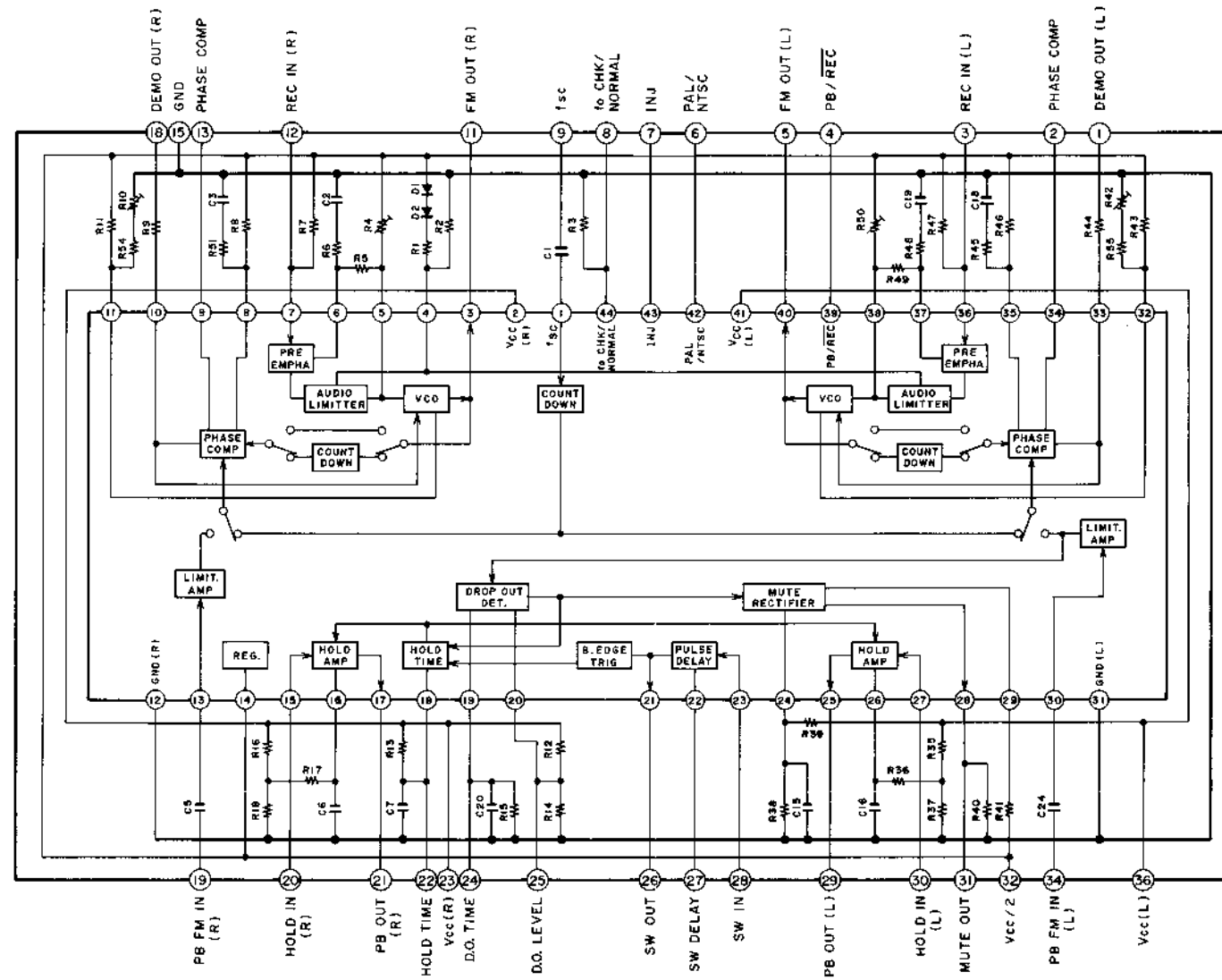
EHD-AW-2620 (NTSC CHROMA SIGNAL PROCESSOR IC)



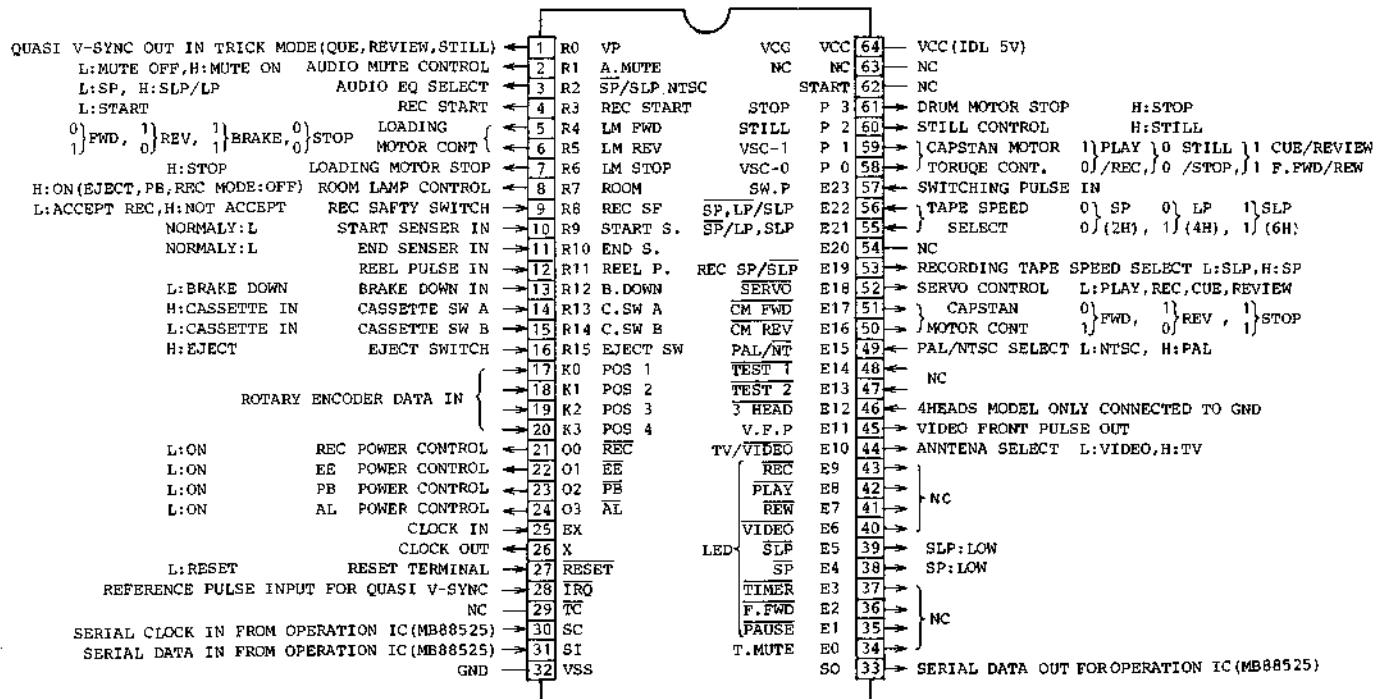
EHM-M96A8U68L (VIDEO Y SIGNAL PROCESS IC)



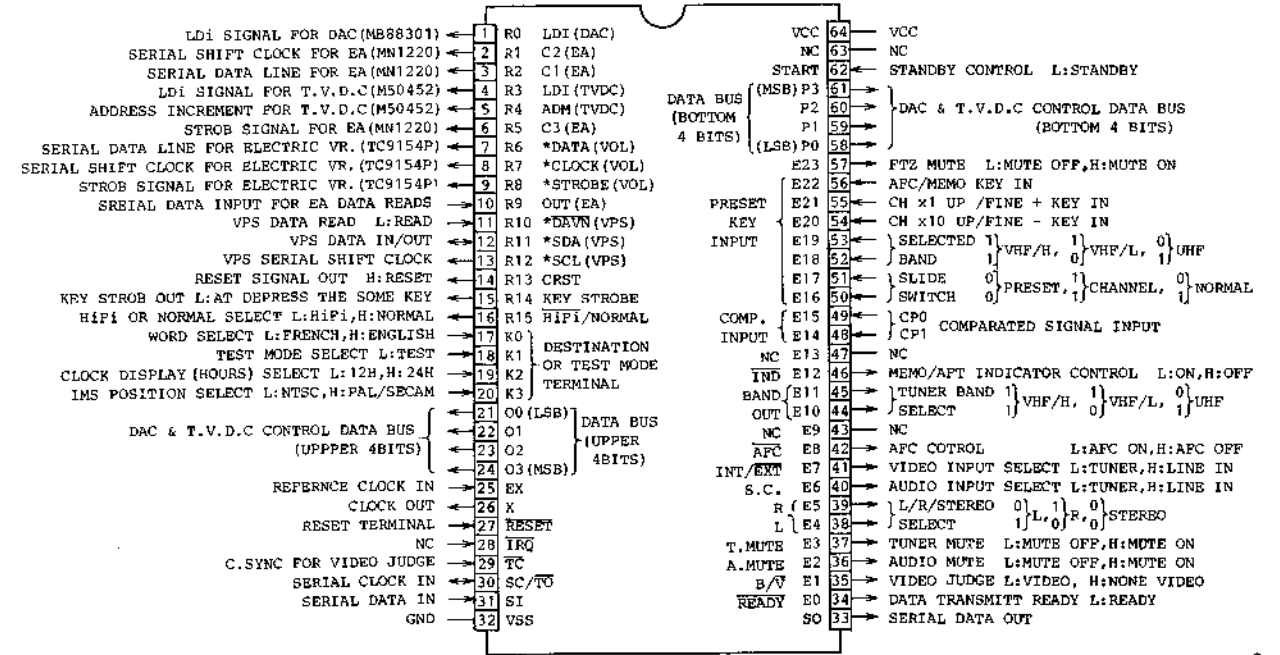
FS-C14K (FM MODULATOR/DEMOMULATOR IC)

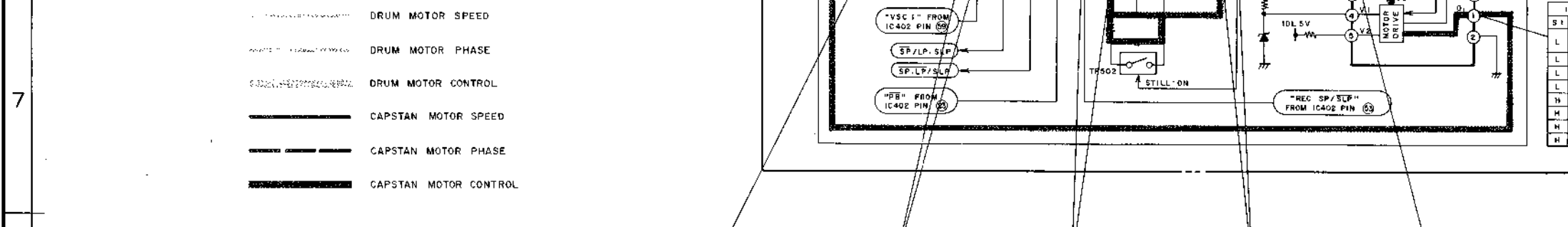
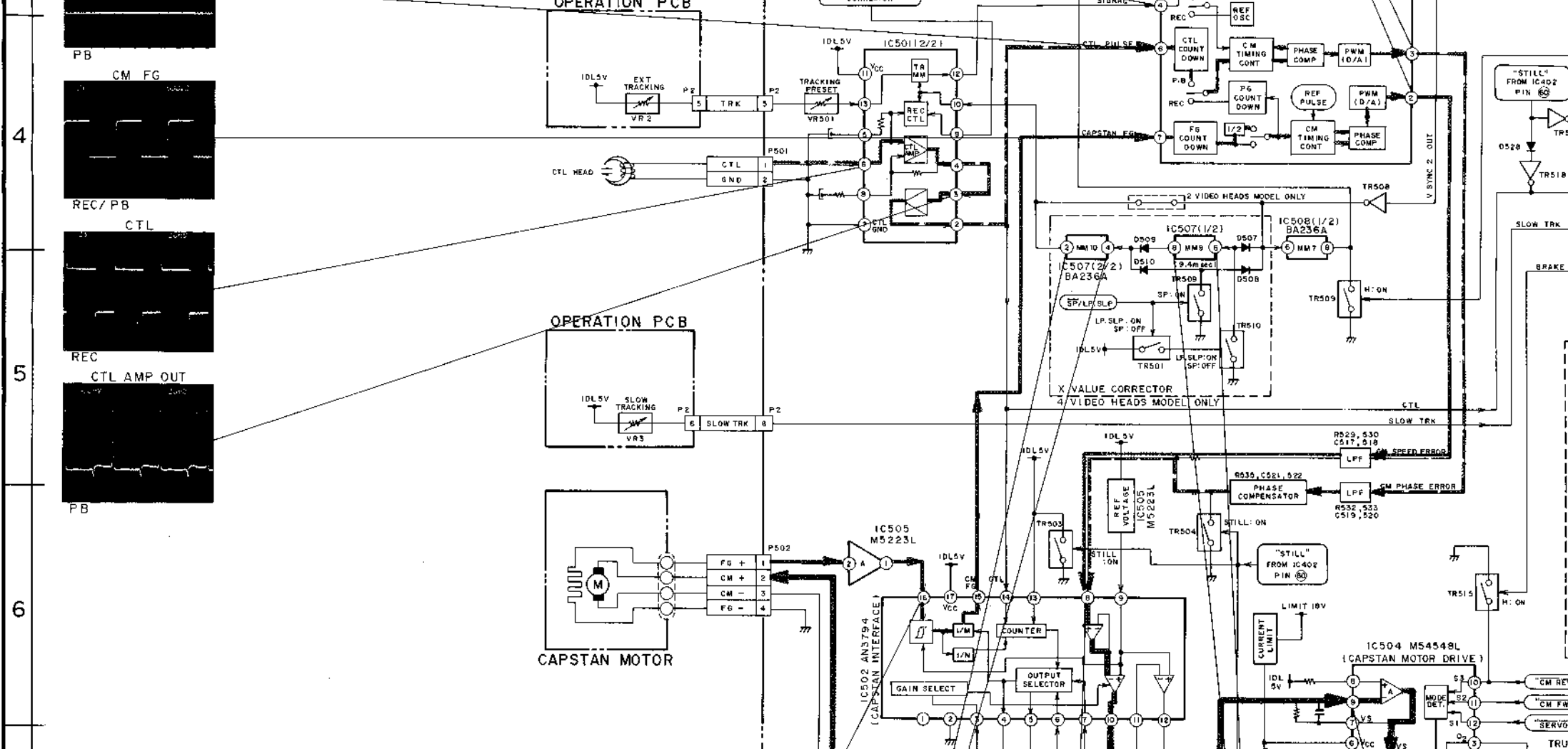
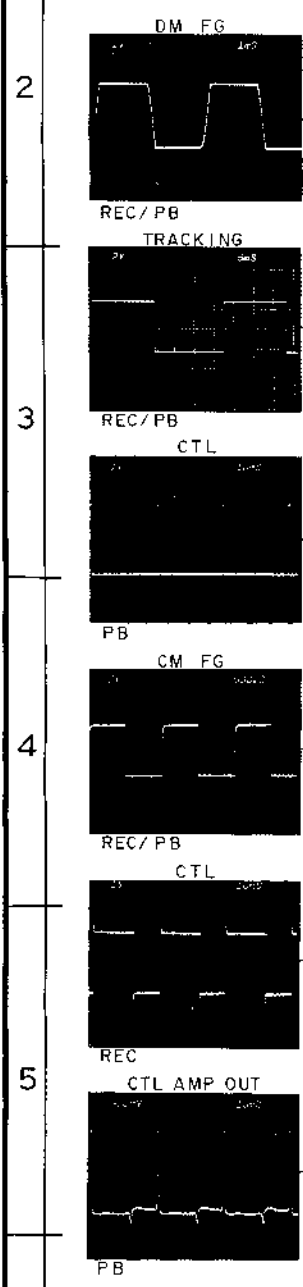
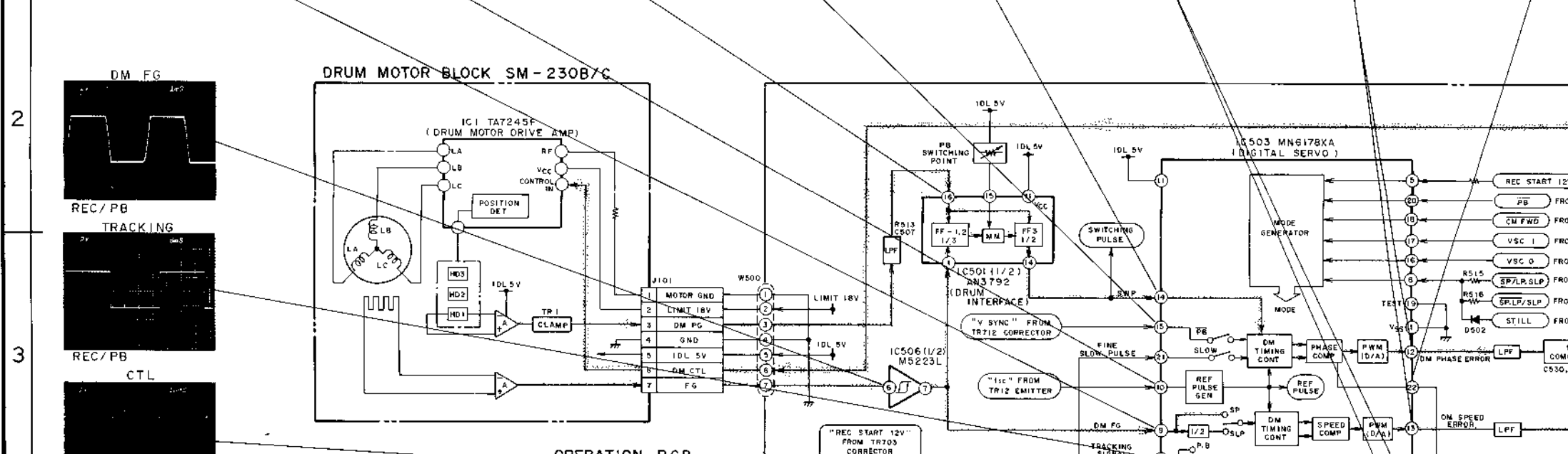
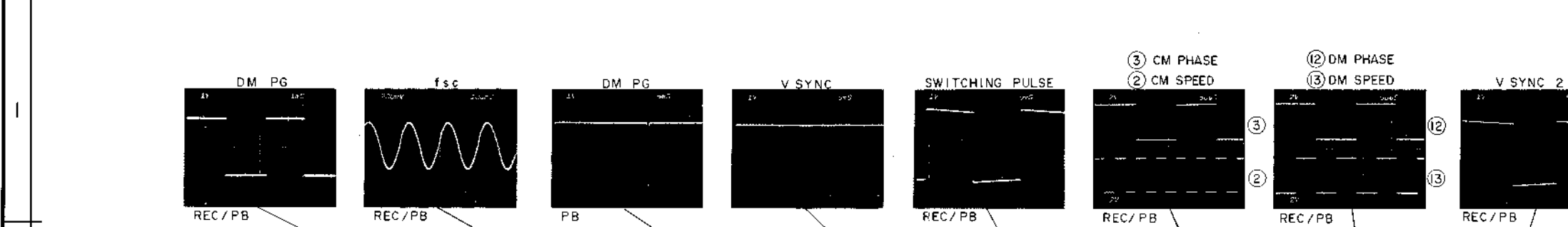


MB88521-140M (SYSTEM CONTROL)

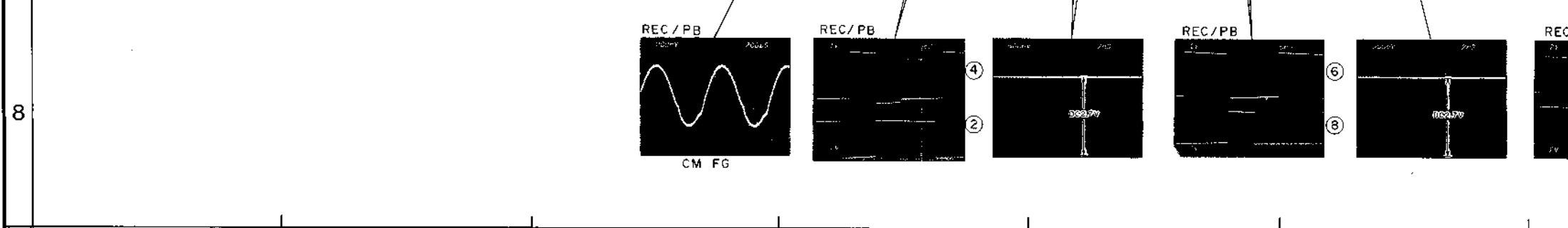


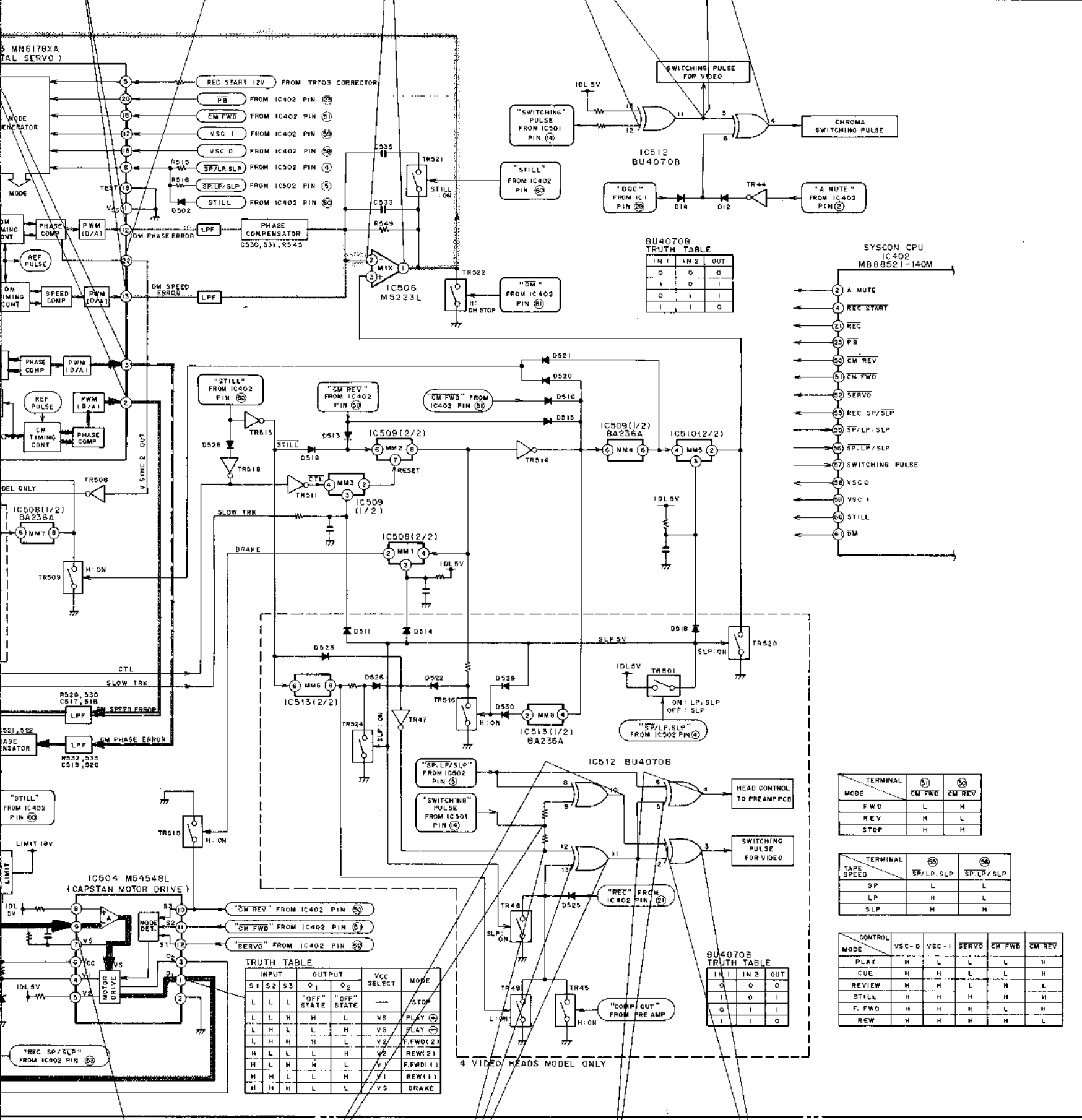
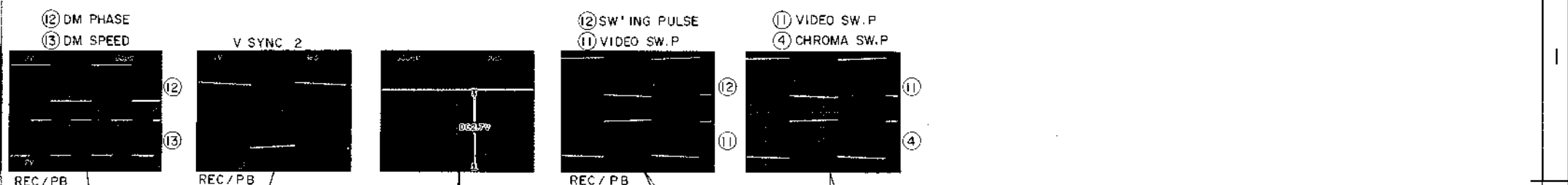
MB88521-165L (H-IMS5)





..... DRUM MOTOR SPEED
- - - - - DRUM MOTOR PHASE
- - - - - DRUM MOTOR CONTROL
————— CAPSTAN MOTOR SPEED
- - - - - CAPSTAN MOTOR PHASE
- - - - - CAPSTAN MOTOR CONTROL





BU4070B TRUTH TABLE

IN 1	IN 2	OUT
0	0	0
1	0	1
0	1	1
1	1	0

- SYSCON CPU IC402 MB88521-140M
- 2 A MUTE
 - 4 REC START
 - 20 REC
 - 25 FB
 - 50 CM REV
 - 51 CM FWD
 - 52 SERVO
 - 53 REC SP/SLP
 - 54 SP/LP/SLP
 - 55 SP/LP/SLP
 - 56 SWITCHING PULSE
 - 58 VSC 0
 - 59 VSC 1
 - 60 STILL
 - 61 DM

TRUTH TABLE

INPUT	OUTPUT	VCC SELECT	MODE		
S1	S2	S3	O1	O2	
L	L	L	"OFF" STATE	"OFF" STATE	STOP
L	L	H	L	L	VS PLAY
L	H	L	L	H	V2 F.WD(2)
L	H	H	L	H	V2 F.WD(1)
H	L	L	L	H	V2 REW(2)
H	L	H	L	H	V1 F.WD(1)
H	H	L	L	H	V1 REW(1)
H	H	H	L	L	V5 BRAKE

TERMINAL MODE

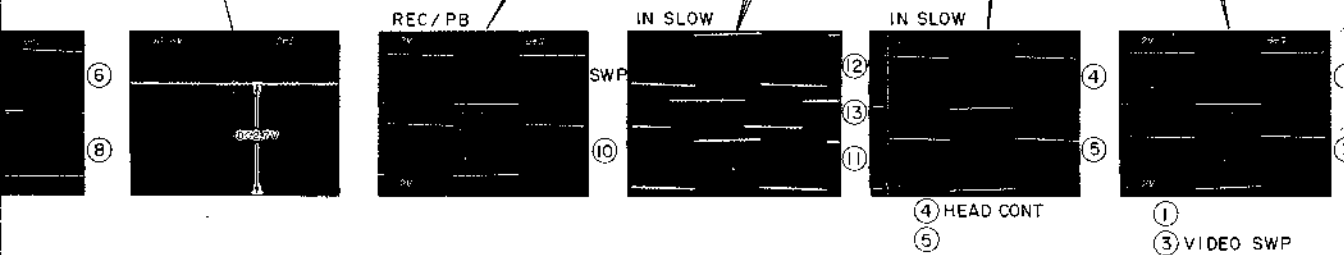
TERMINAL	CM FWD	CM REV
FWD	L	H
REV	H	L
STOP	H	H

TERMINAL TAPE SPEED

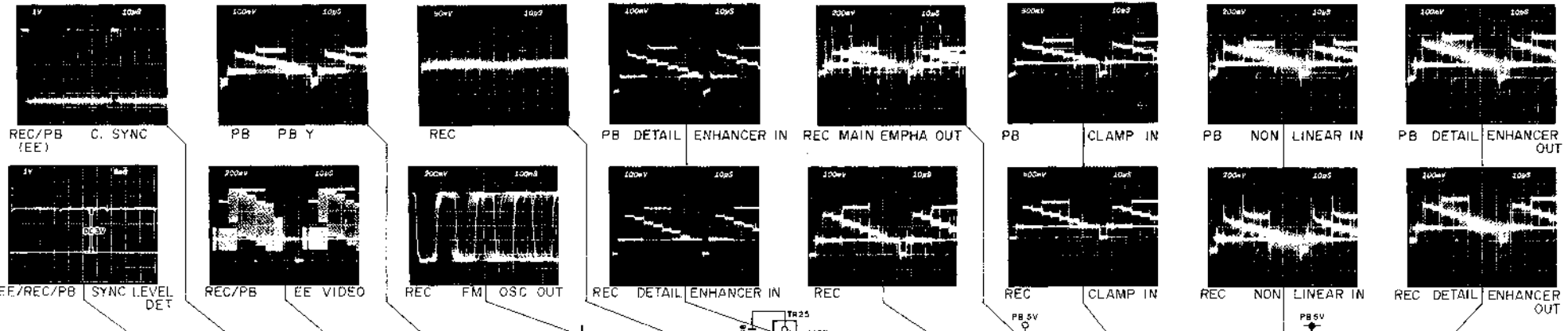
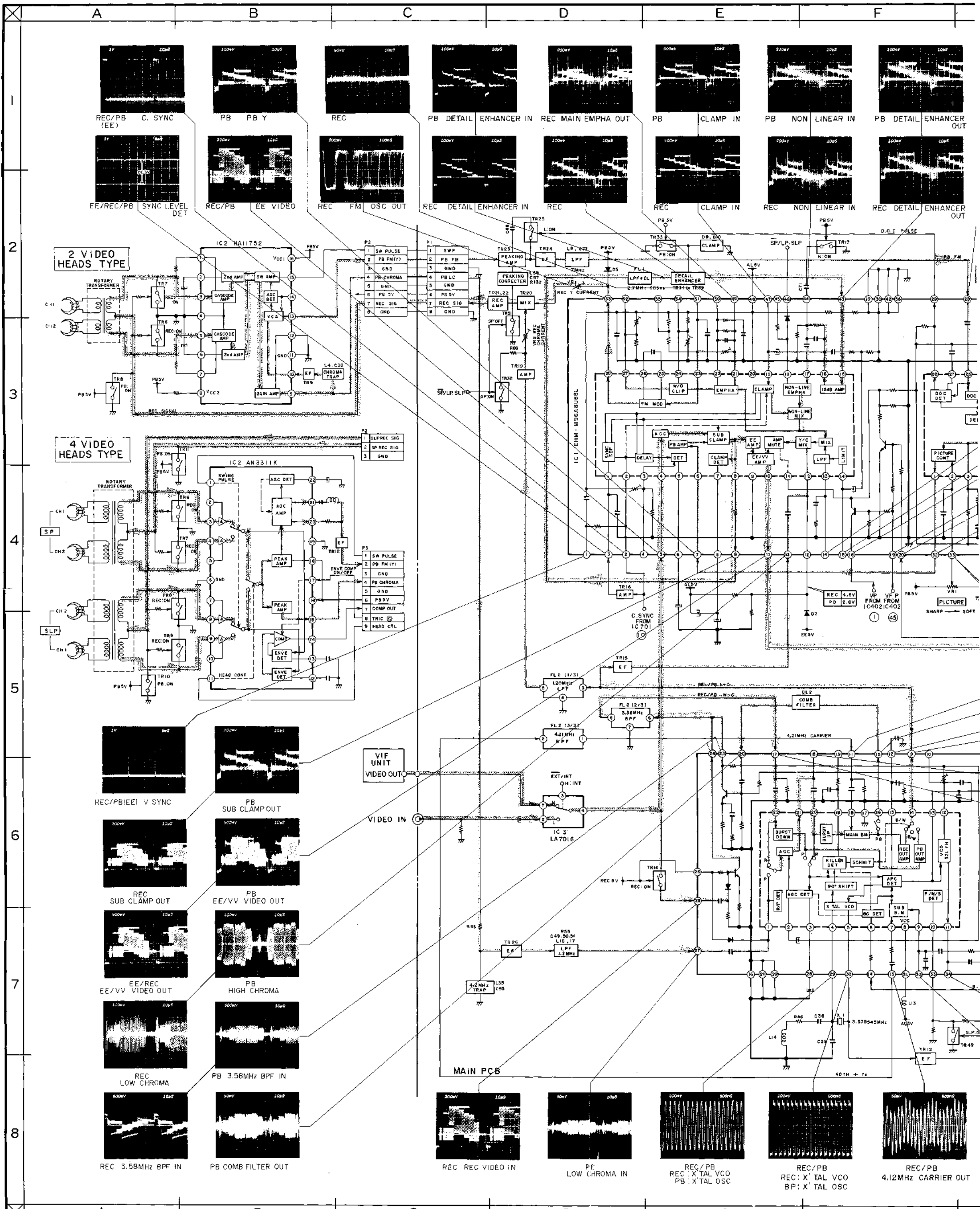
TERMINAL	SP/LP/SLP	SP/LP/SLP
SP	L	L
LP	H	L
SLP	H	H

CONTROL MODE

CONTROL MODE	VSC-D	VSC-1	SERVO	CM FWD	CM REV
PLAY	H	L	L	L	H
CUE	H	H	L	L	H
REVIEW	H	H	L	H	L
STILL	H	H	H	H	H
F. FWD	H	H	H	L	H
REW	H	H	H	H	L



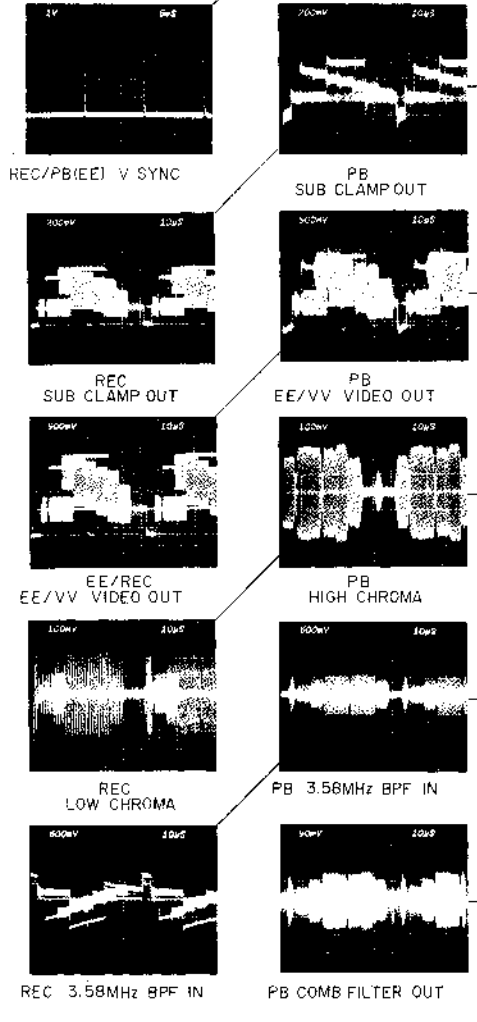
VS-515U/UM, VS-525U
 VS-555U/UM, VS-565U
 VS-515IU
 SERVO
 BLOCK DIAGRAM
 NO.4-2 861113A



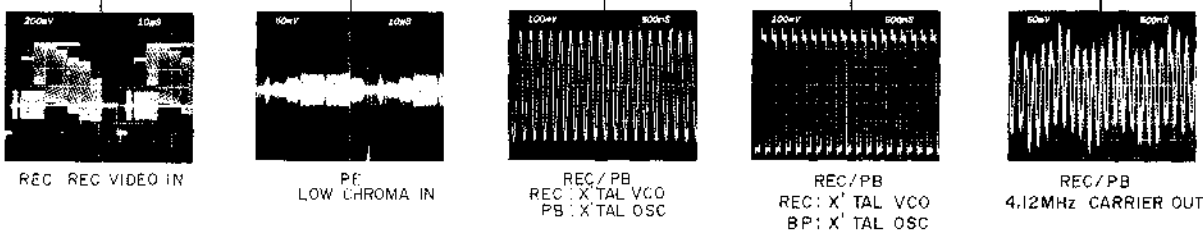
2 VIDEO HEADS TYPE

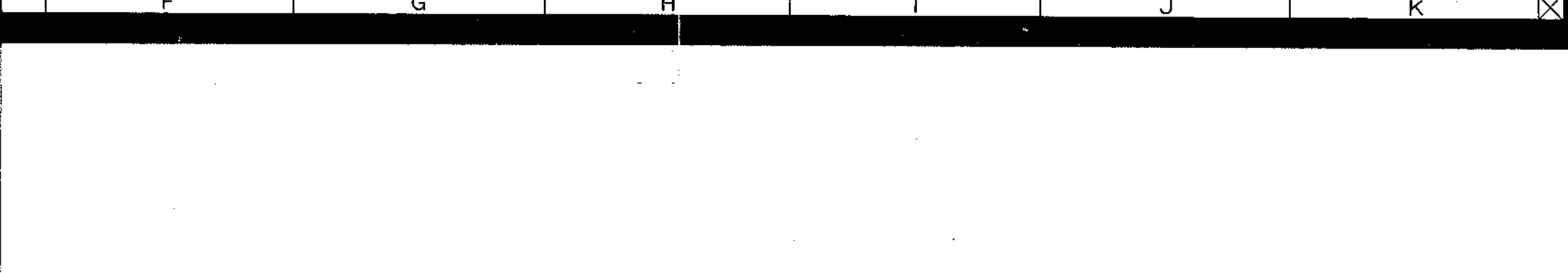
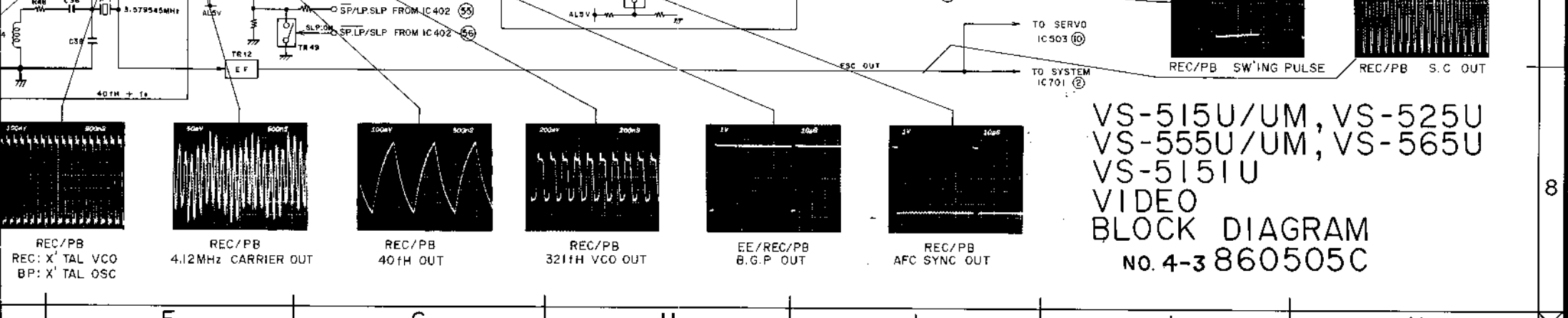
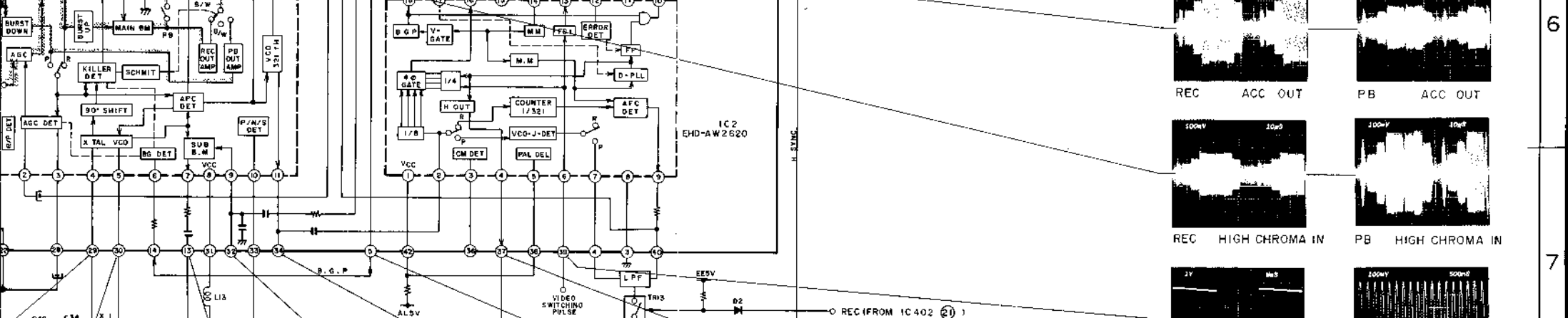
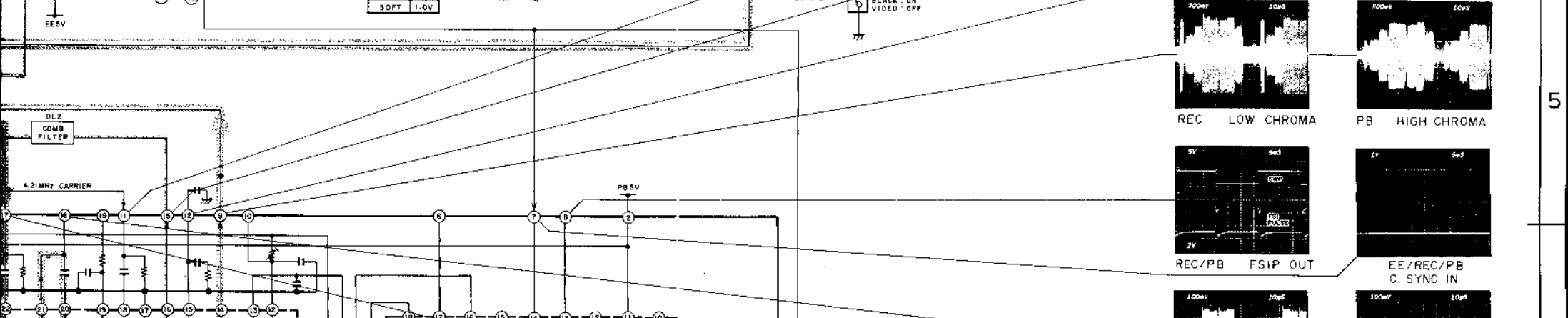
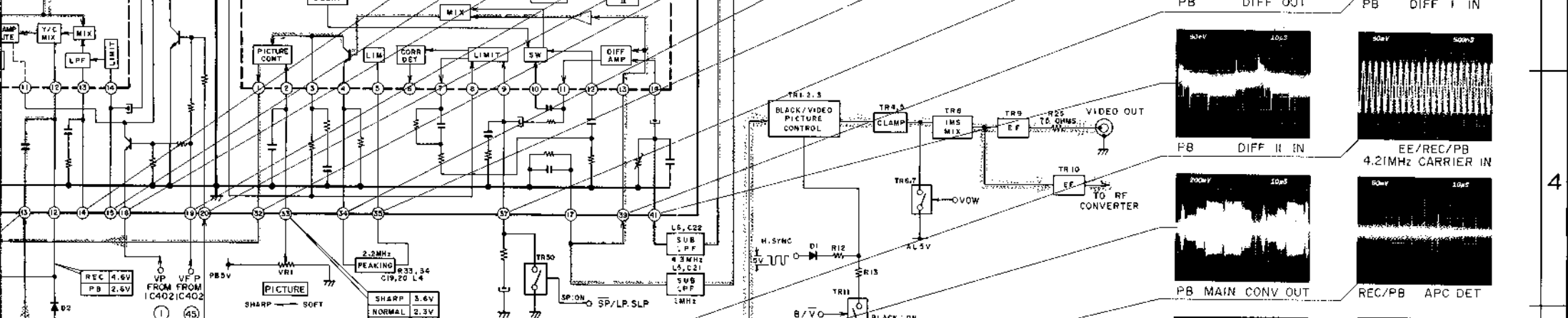
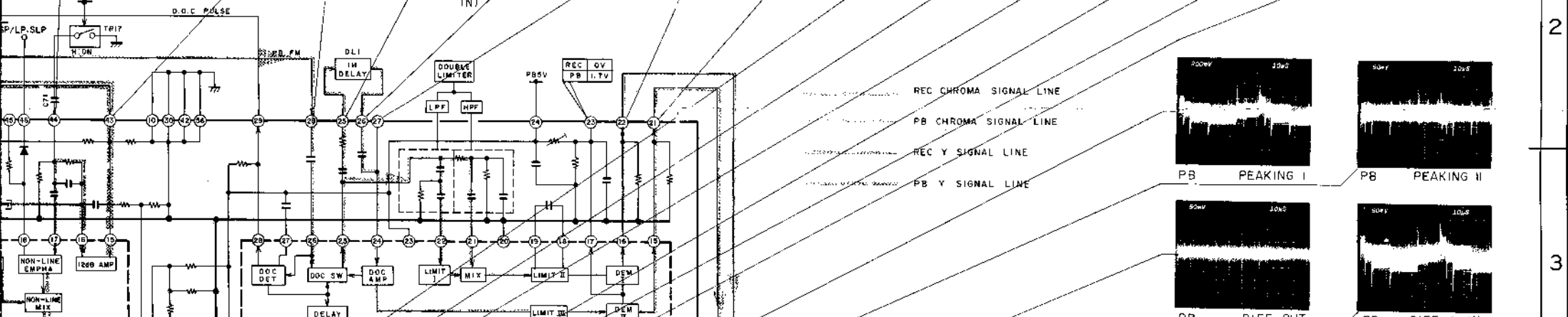
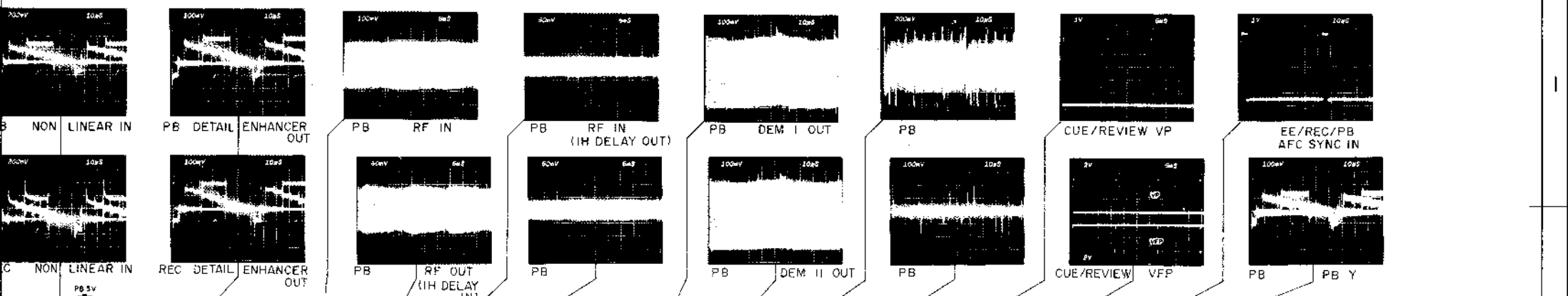
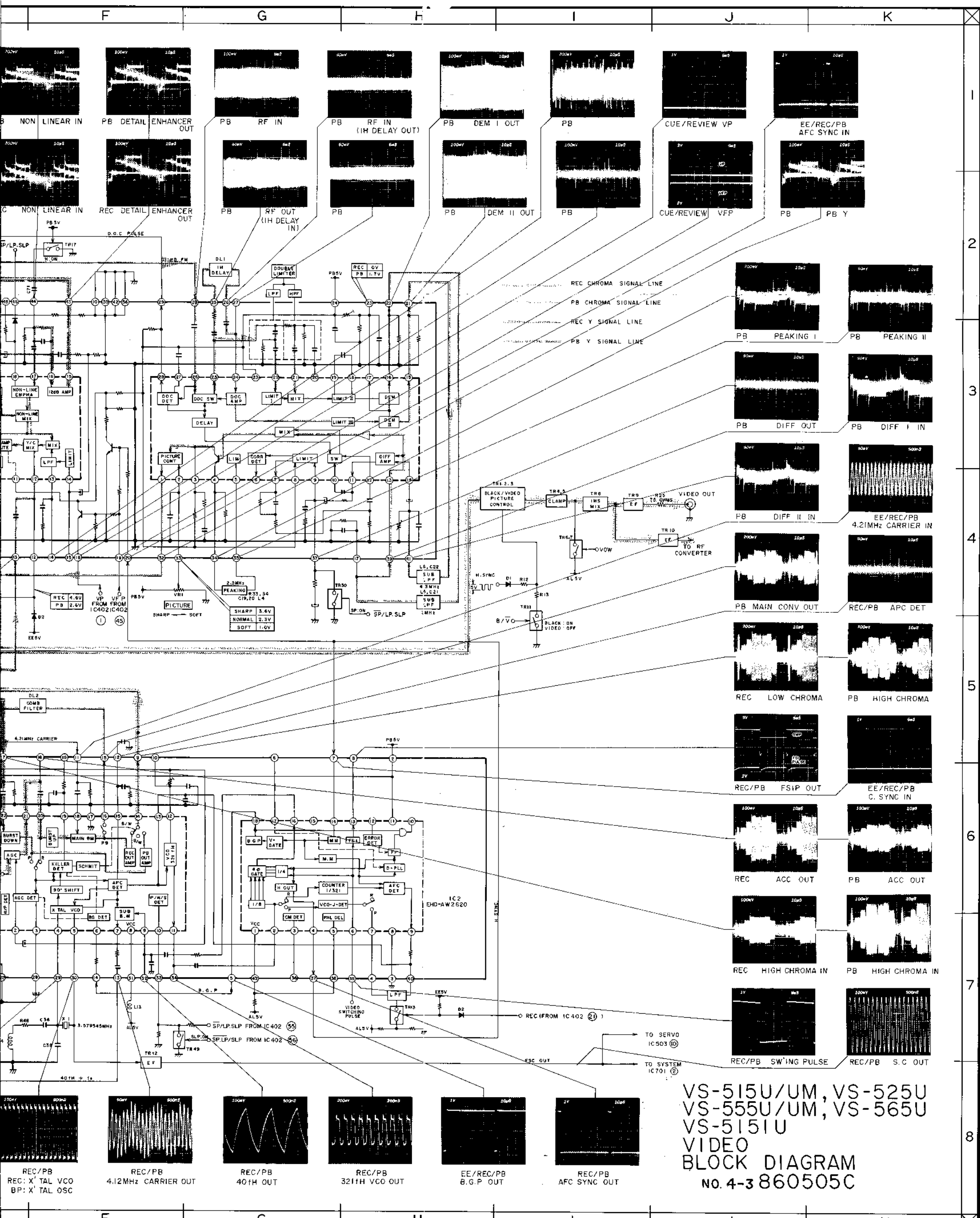
4 VIDEO HEADS TYPE

VIF UNIT VIDEO OUT



MAIN PCB

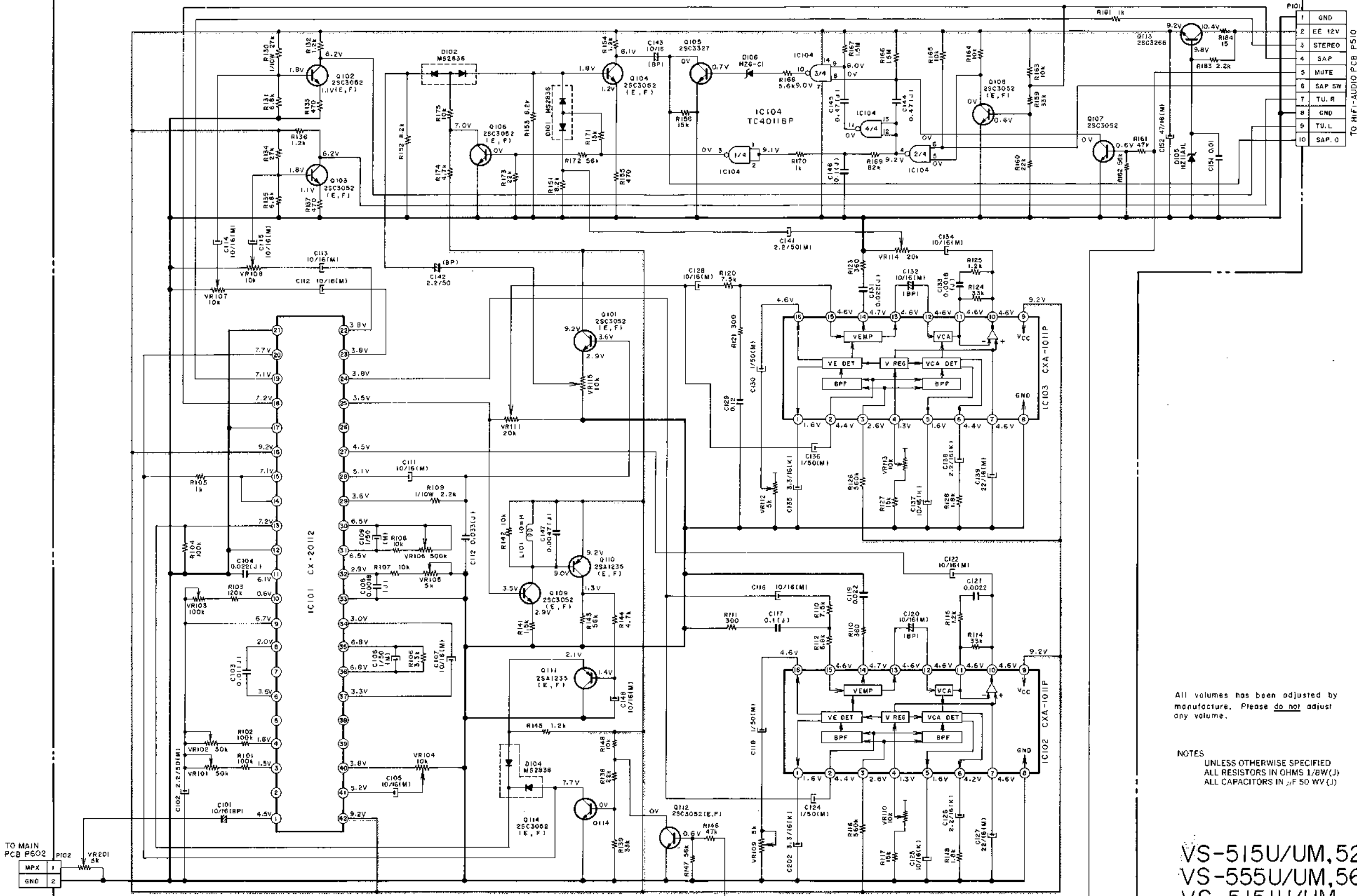




VS-515U/UM, VS-525U
 VS-555U/UM, VS-565U
 VS-515IU
 VIDEO
 BLOCK DIAGRAM
 No. 4-3 860505C

REC/PB REC: X' TAL VCO BP: X' TAL OSC
 REC/PB 4.2MHz CARRIER OUT
 REC/PB 40Hz OUT
 REC/PB 321Hz VCO OUT
 EE/REC/PB B.G.P. OUT
 REC/PB AFC SYNC OUT

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TO MAIN PCB P602
 MPX 1
 GND 2

1	GND
2	EE 12V
3	STEREO
4	SAP
5	MUTE
6	SAP SW
7	TU.R
8	GND
9	TU.L
10	SAP. O

TO HIFI-AUDIO PCB P510

ST PCB 6A0016B1/C1

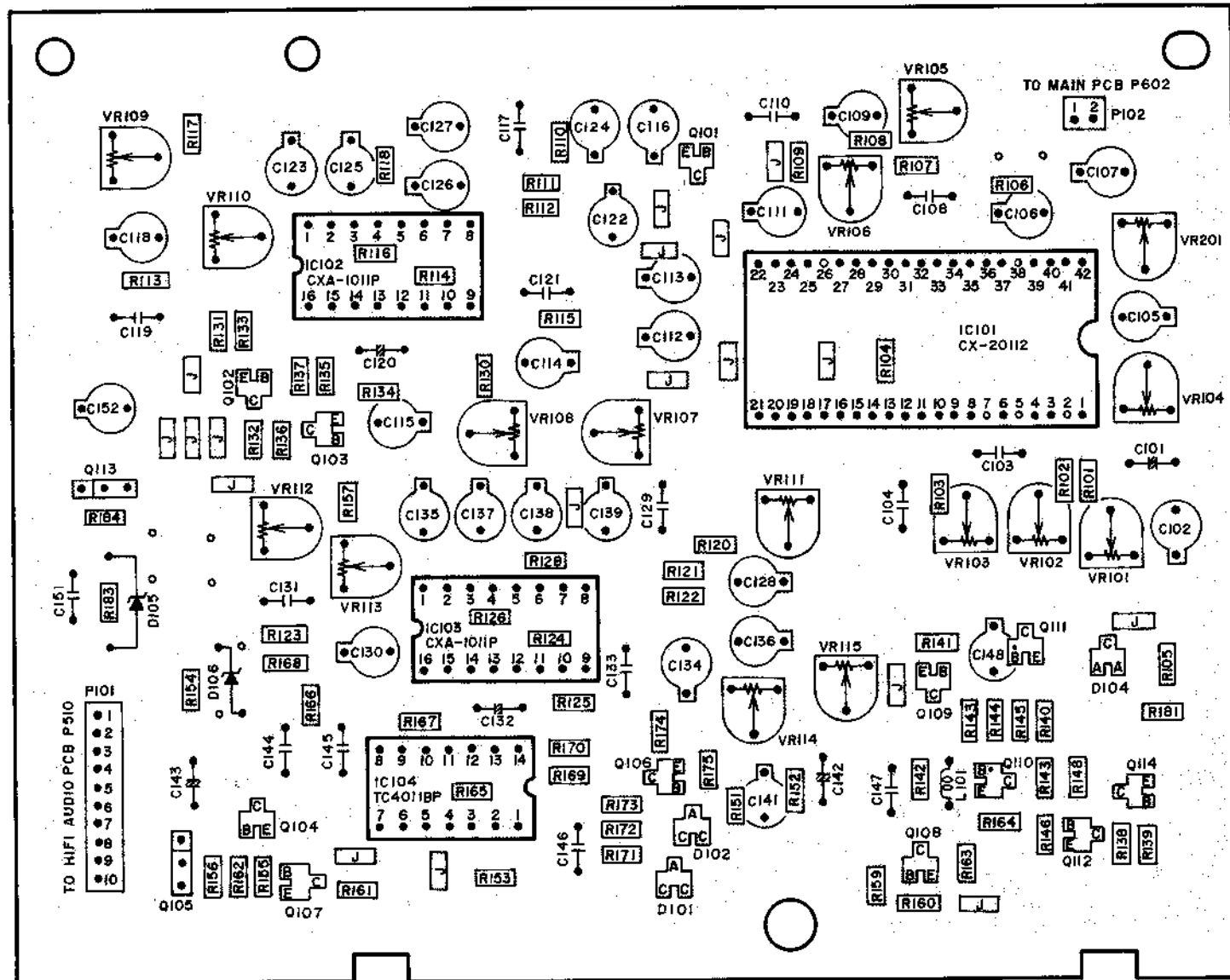
INDICATED VOLTAGE MEASURED IN E-E(STOP)MODE.

B(POWER SUPPLY) LINE

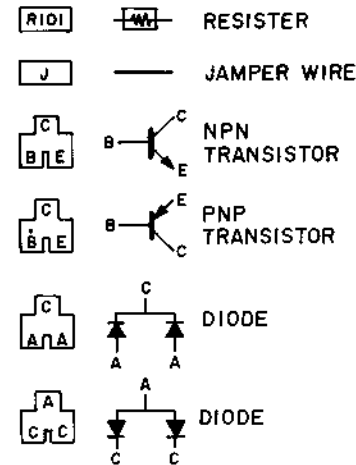
All volumes has been adjusted by manufacture. Please do not adjust any volume.

NOTES
 UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS IN OHMS 1/BW(J)
 ALL CAPACITORS IN μF 50 WV(J)

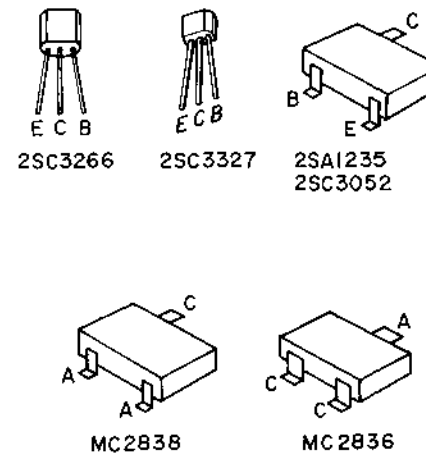
VS-515U/UM, 525U
 VS-555U/UM, 565U/UM
 VS-515IU/UM
 ST PCB
 SCHEMATIC DIAGRAM
 NO.11-8 860204B (A2)



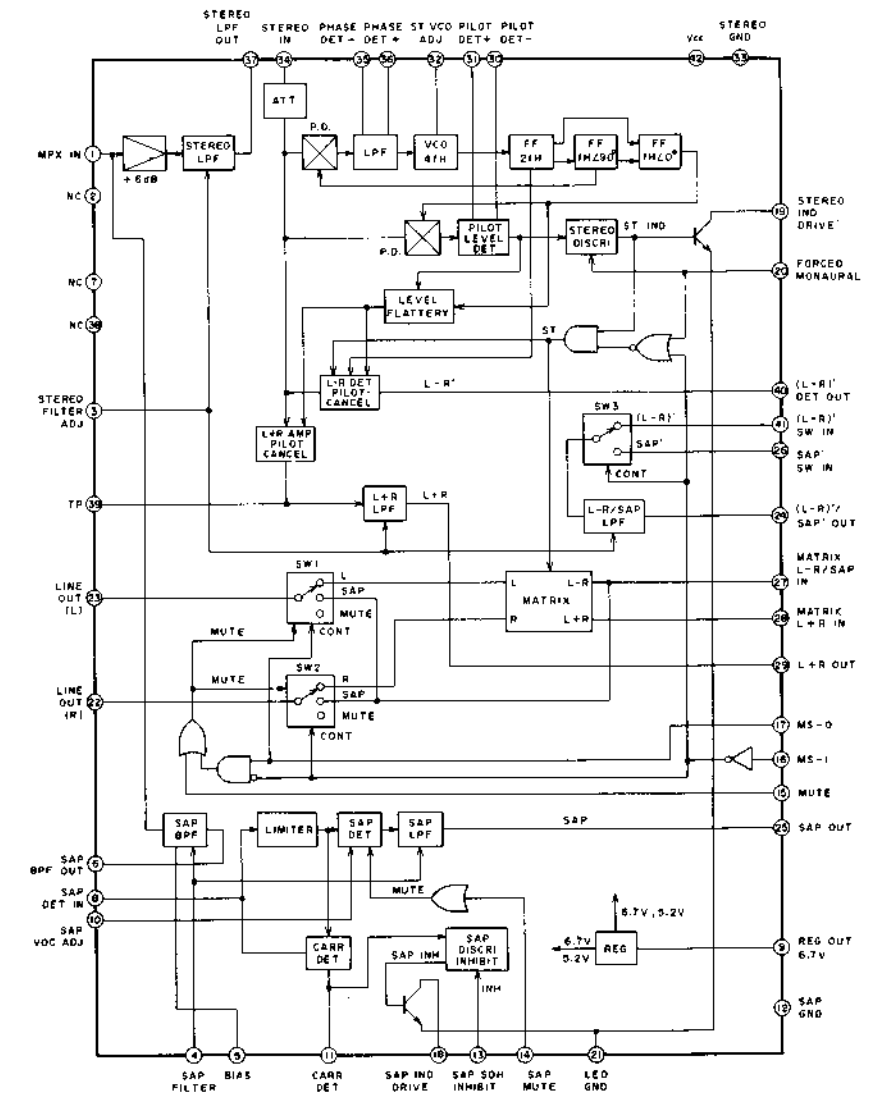
ST PCB 6A00160 B1/C1

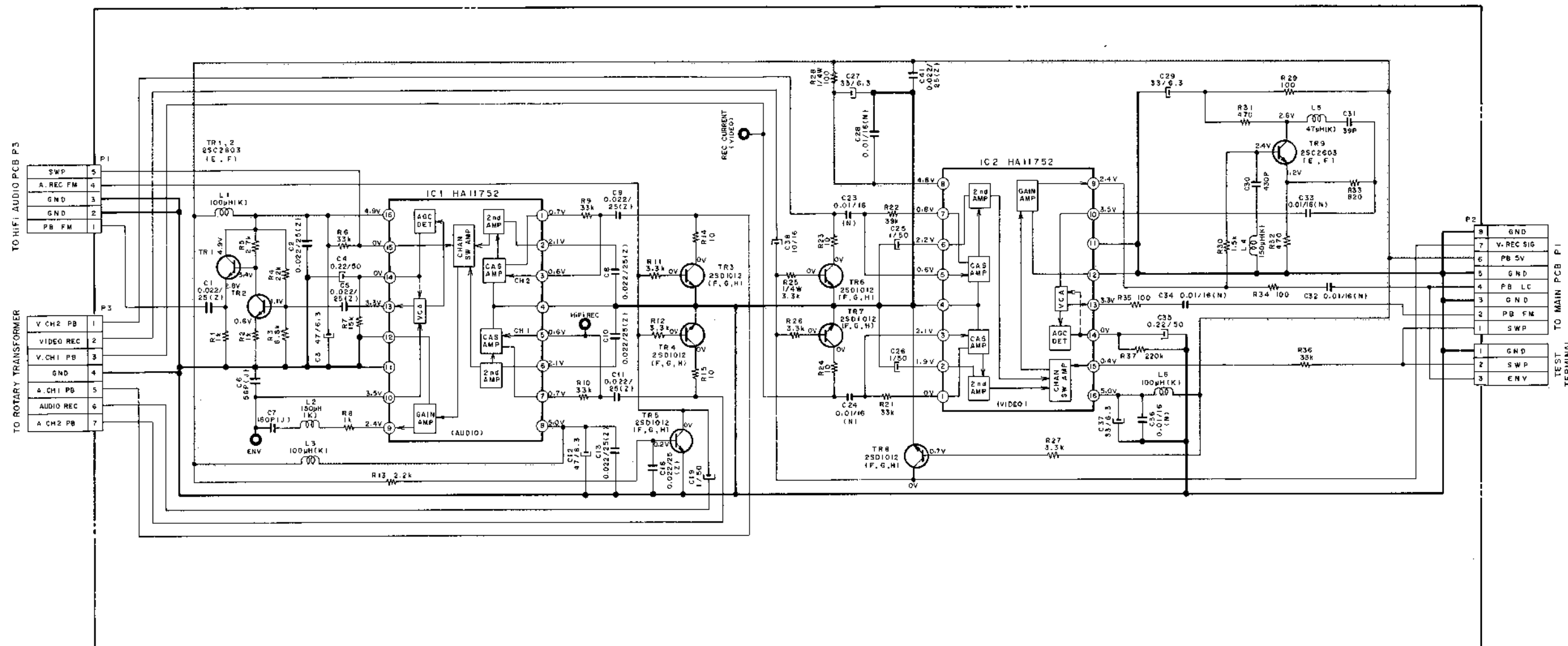


COMPONENT SHAPES



CX20112 (US SOUND MULTIPLEX DECODER)

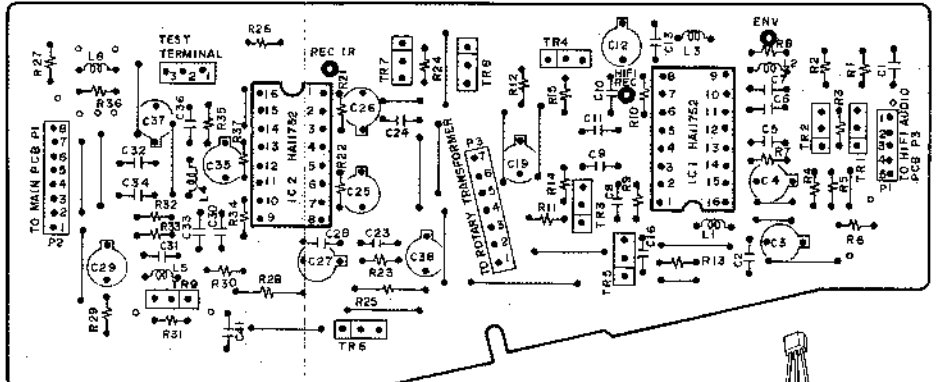




PREAMP 2 HEAD PCB V1056B5110

INDICATED VOLTAGE MEASURED IN PLAY BACK

PRE AMP 2HEAD PCB V1056B5110 (VS-515U/UM.VS-525U.VS-515IU)

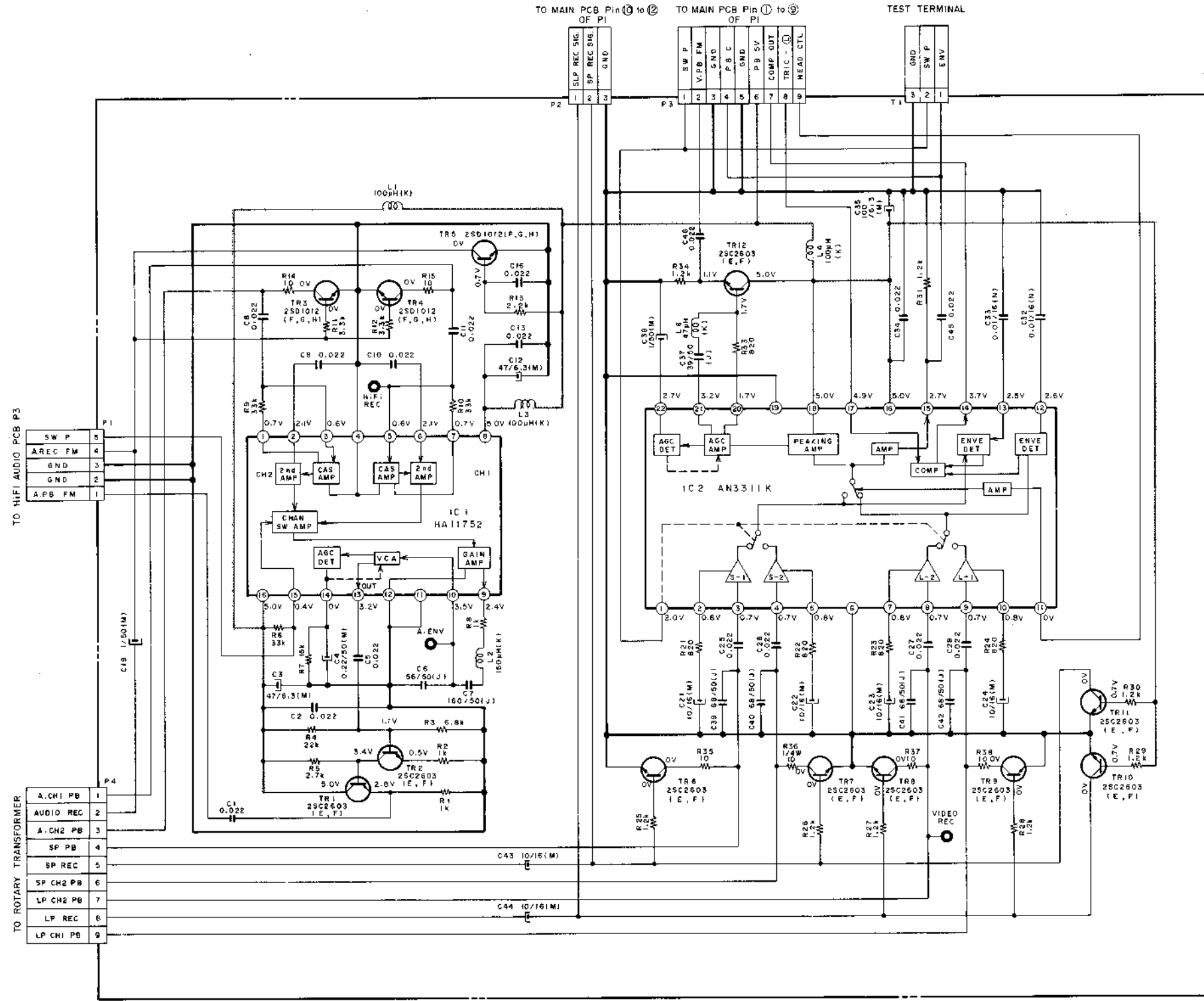


NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W (J)
ALL CAPACITORS IN μ F 50 WV (M)



VS-515IU
VS-515U/UM
VS-525U
PREAMP 2 HEAD
SCHEMATIC DIAGRAM
No.11-9 861124A

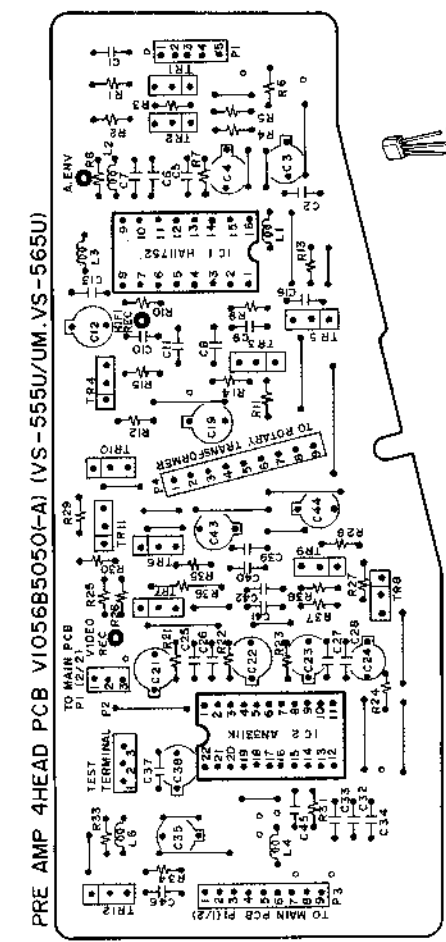
VS-555U/UM
VS-565U



PREAMP 4 HEAD PCB V1056B5050 (-A)

INDICATED VOLTAGE MEASURED IN PLAY BACK

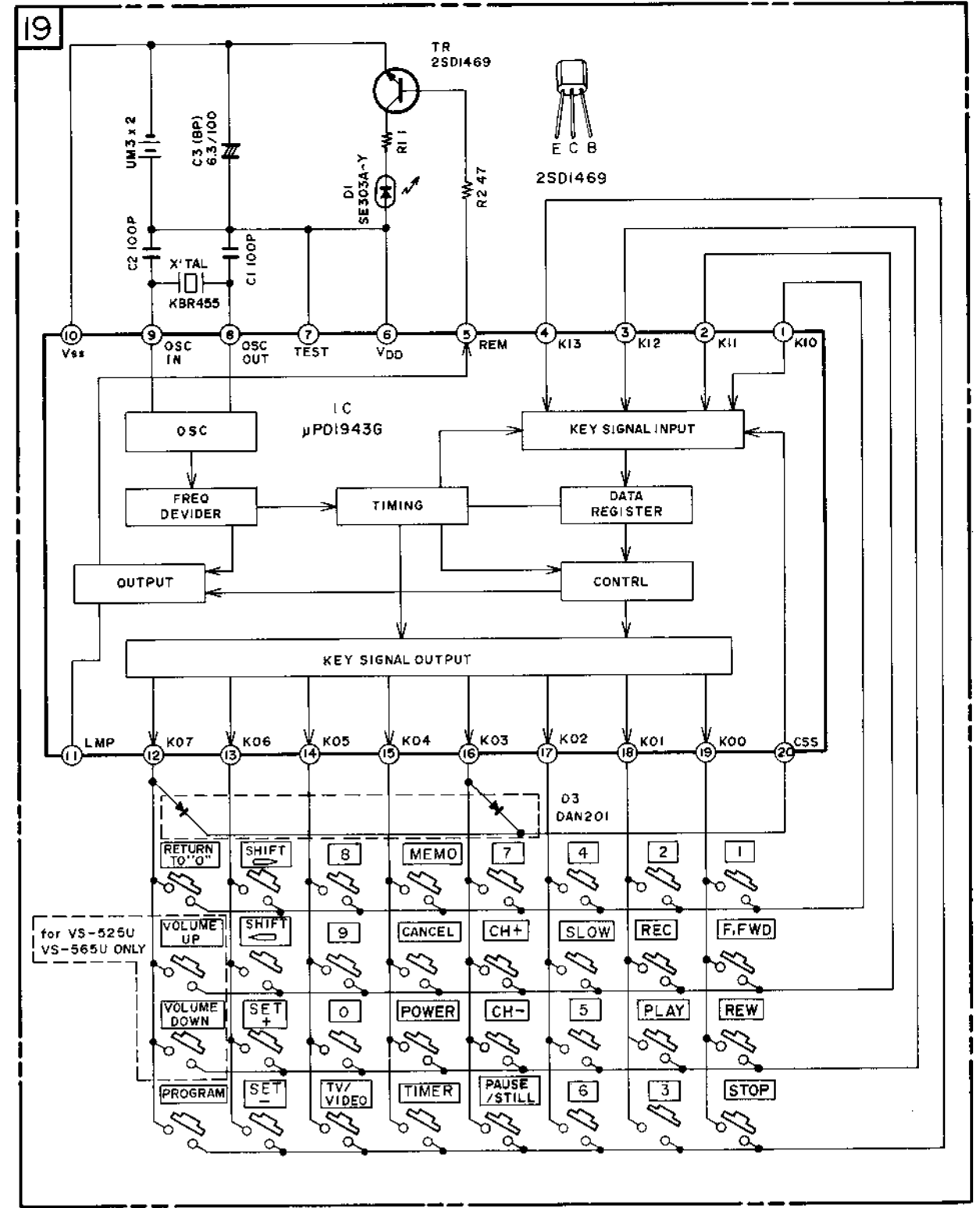
ALL VOLTAGES ARE +B (POWER SUPPLY) LINE



PRE AMP 4 HEAD PCB V1056B5050 (-A) (VS-555U/UM, VS-565U)

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W(1/2)
ALL CAPACITORS IN μ F 25 WV(2)

VS-555U/UM
VS-565U
PREAMP 4 HEAD
SCHEMATIC DIAGRAM
NO. 11-10 861125A



NOTE
 UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS IN OHMS 1/4W(J)
 ALL CAPACITORS IN μF 50WV(J)

RC-V515A
REMOTE CONTROL UNIT
SCHEMATIC DIAGRAM
 NO.11-11 860707B (A4)