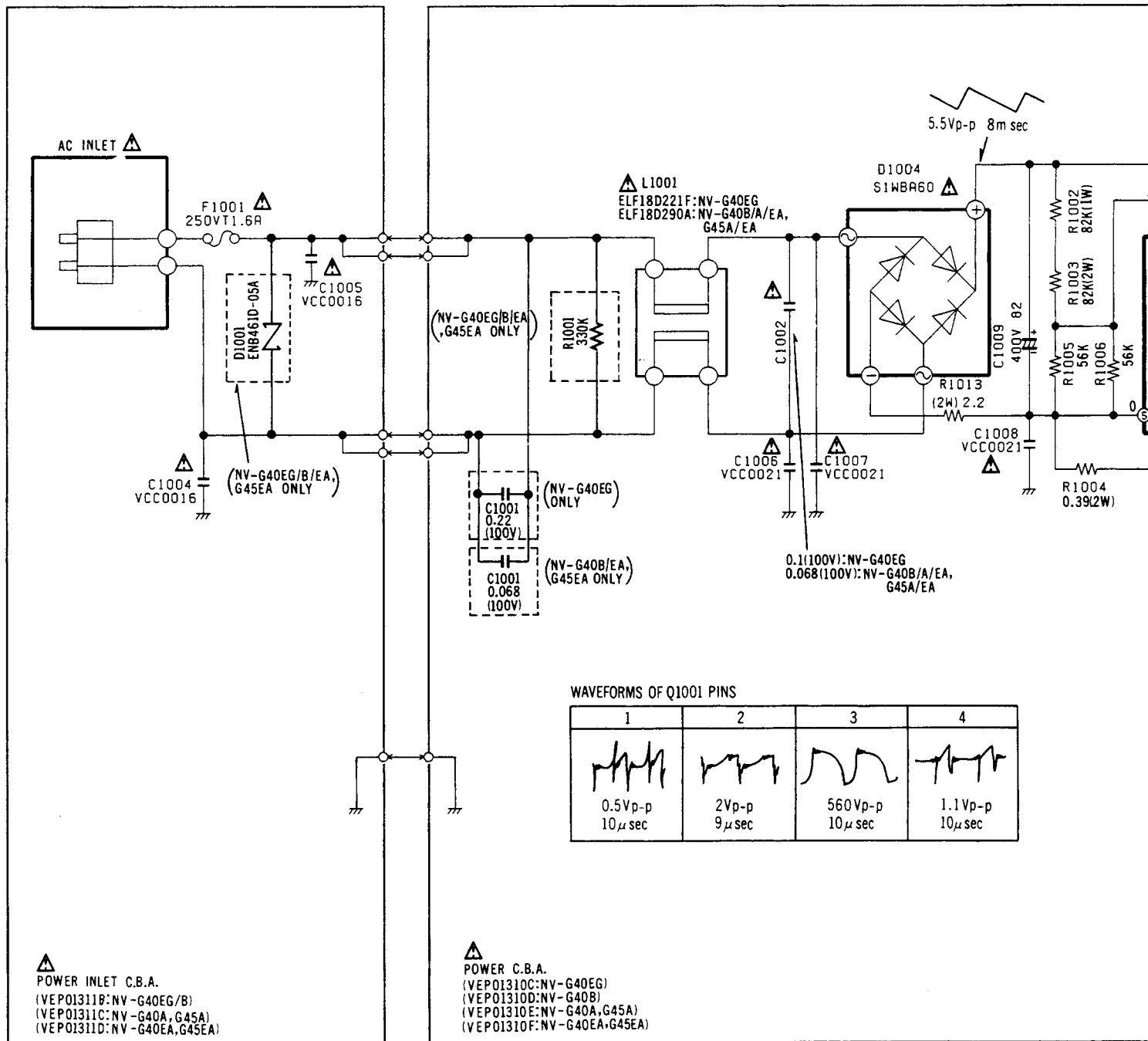


4. POWER SCHEMATIC DIAGRAM



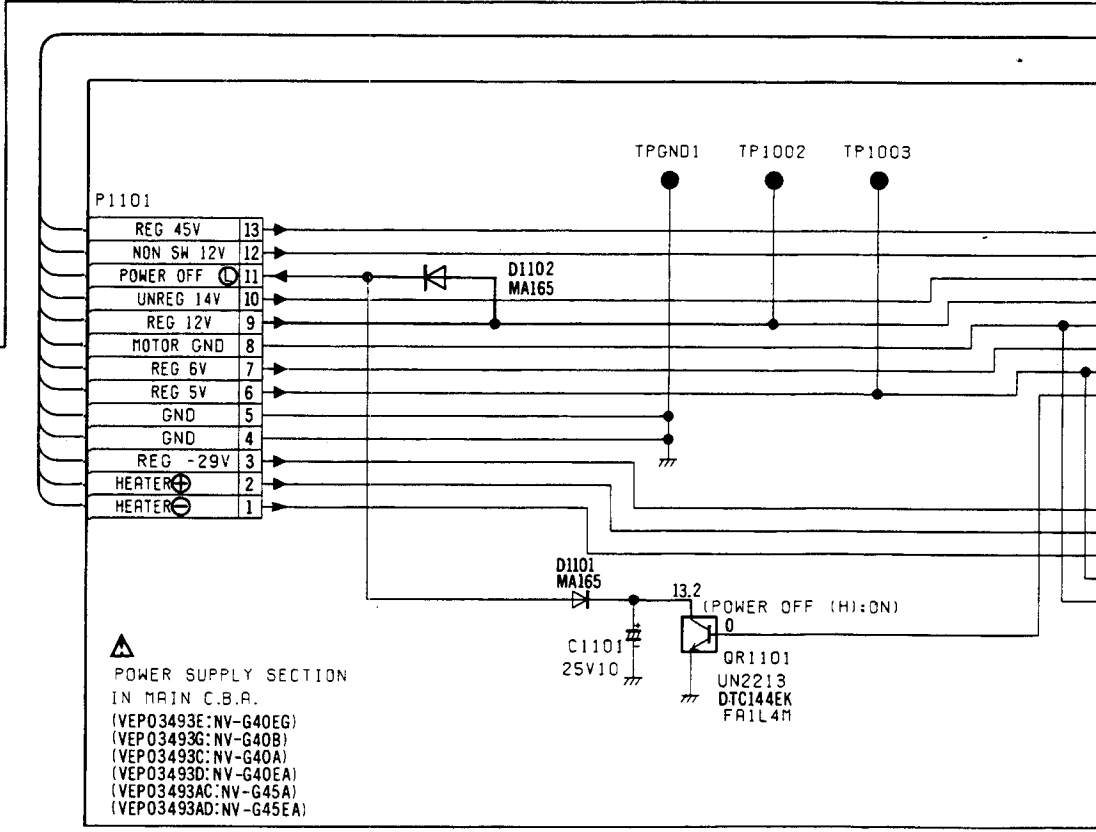
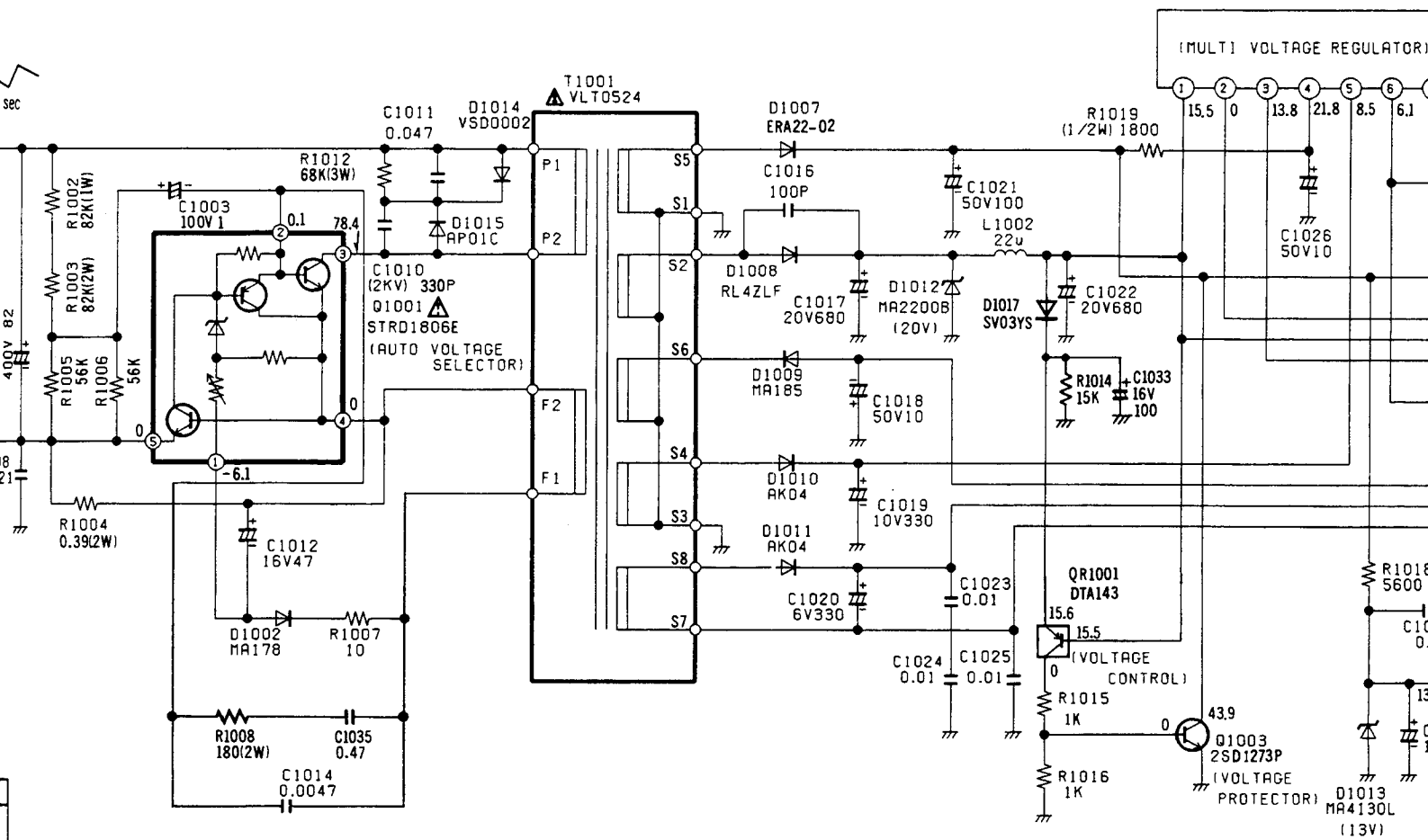
△
POWER INLET C.B.A.
(VEP01311B:NV-G40EG/B)
(VEP01311C:NV-G40A,G45A)
(VEP01311D:NV-G40EA,G45EA)

△
POWER C.B.A.
(VEP01310C:NV-G40EG)
(VEP01310D:NV-G40B)
(VEP01310E:NV-G40A,G45A)
(VEP01310F:NV-G40EA,G45EA)

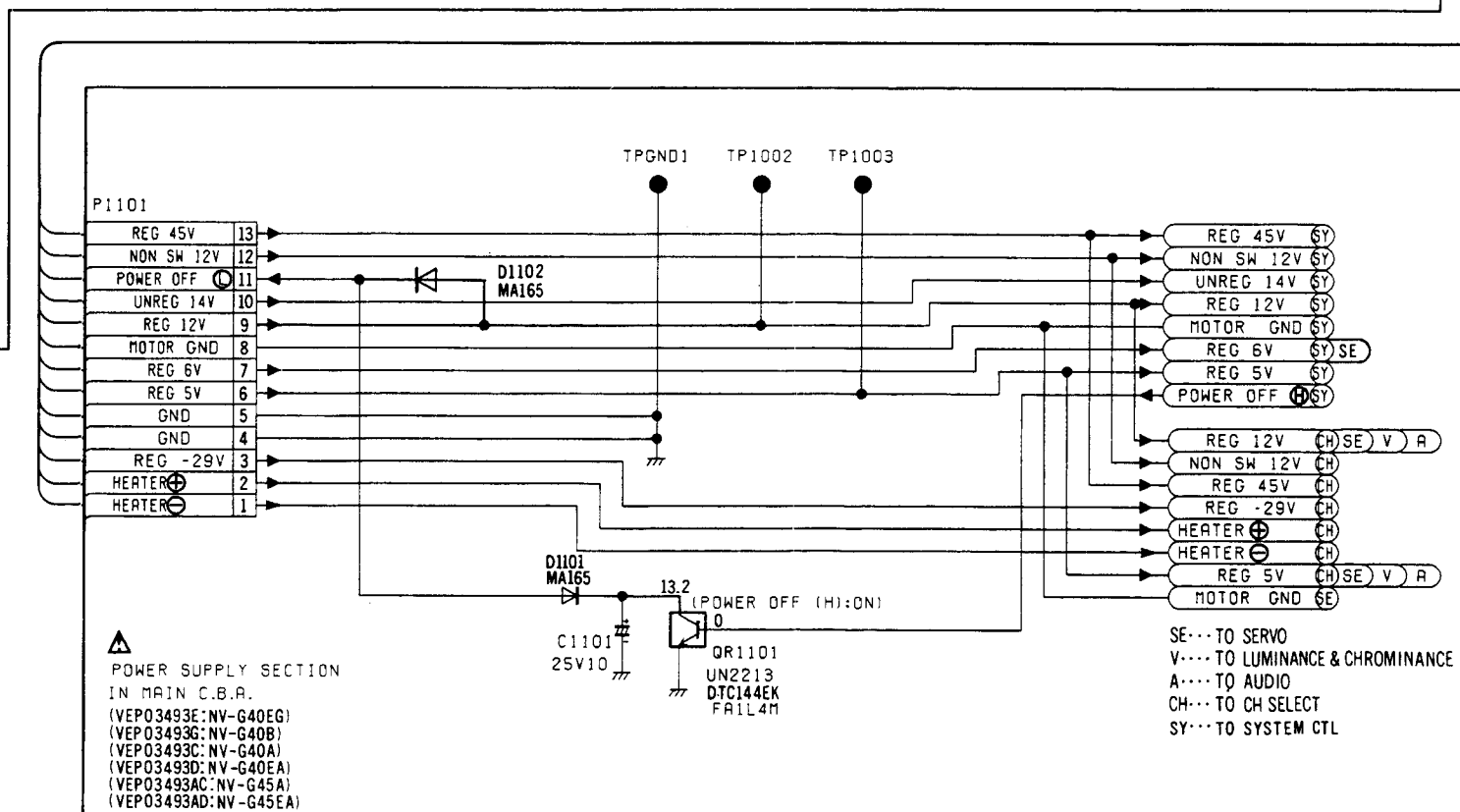
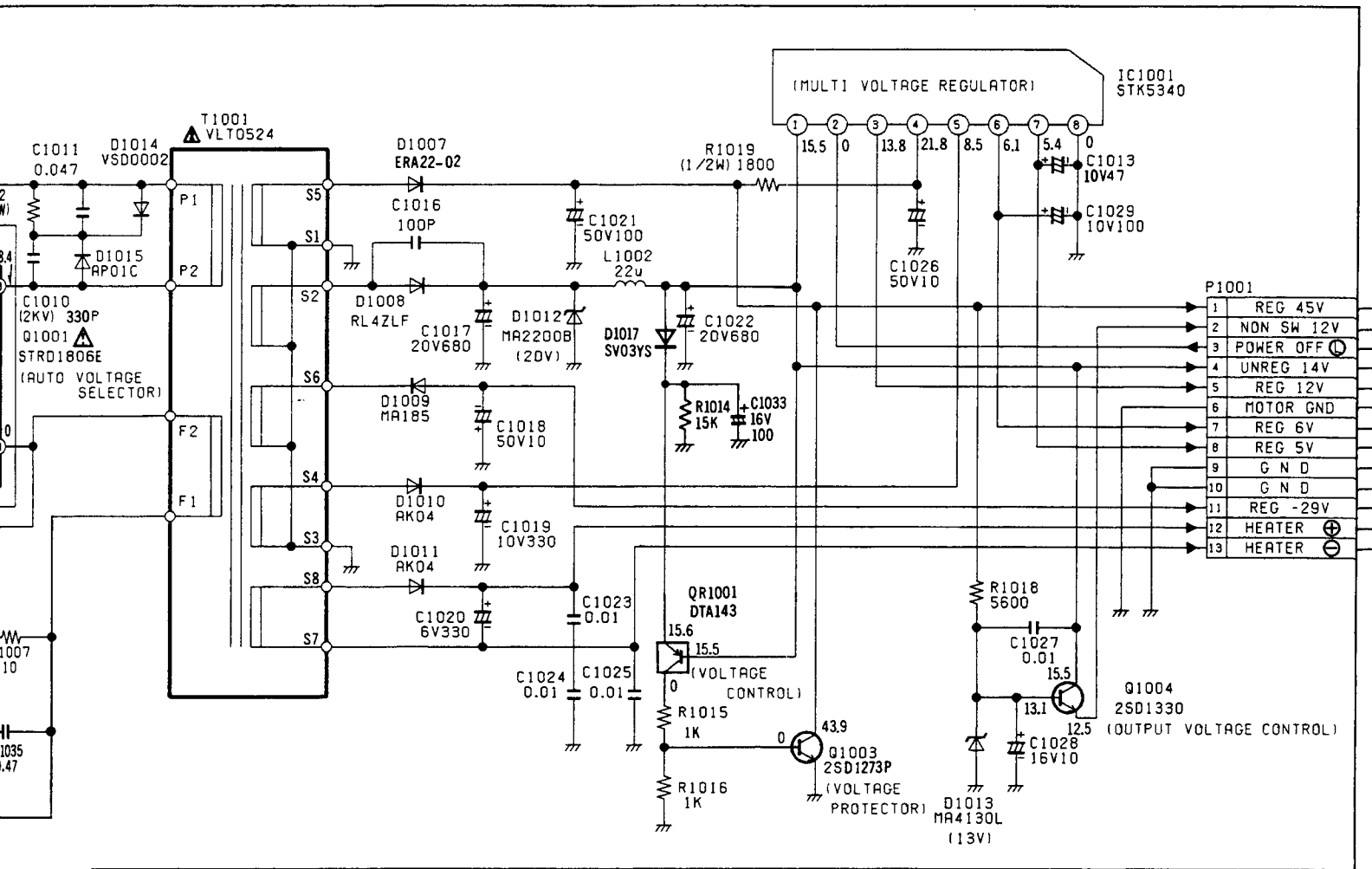
NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.
PRIMARY SIDE Q1001-(5)
SECONDARY SIDE ... TP GND OF MAIN C.B.A.
NOTE 2. THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 240V.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

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

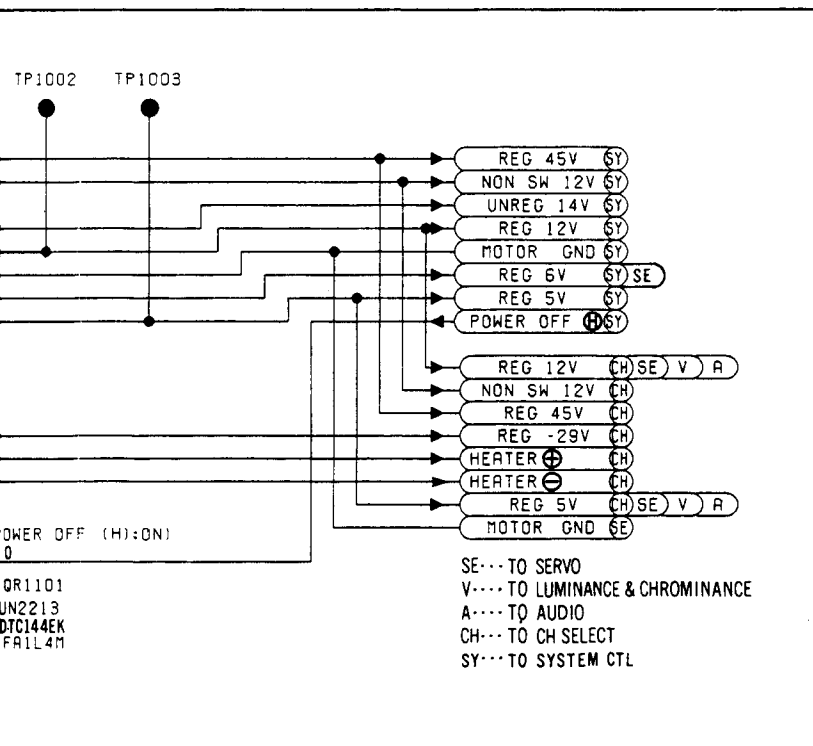
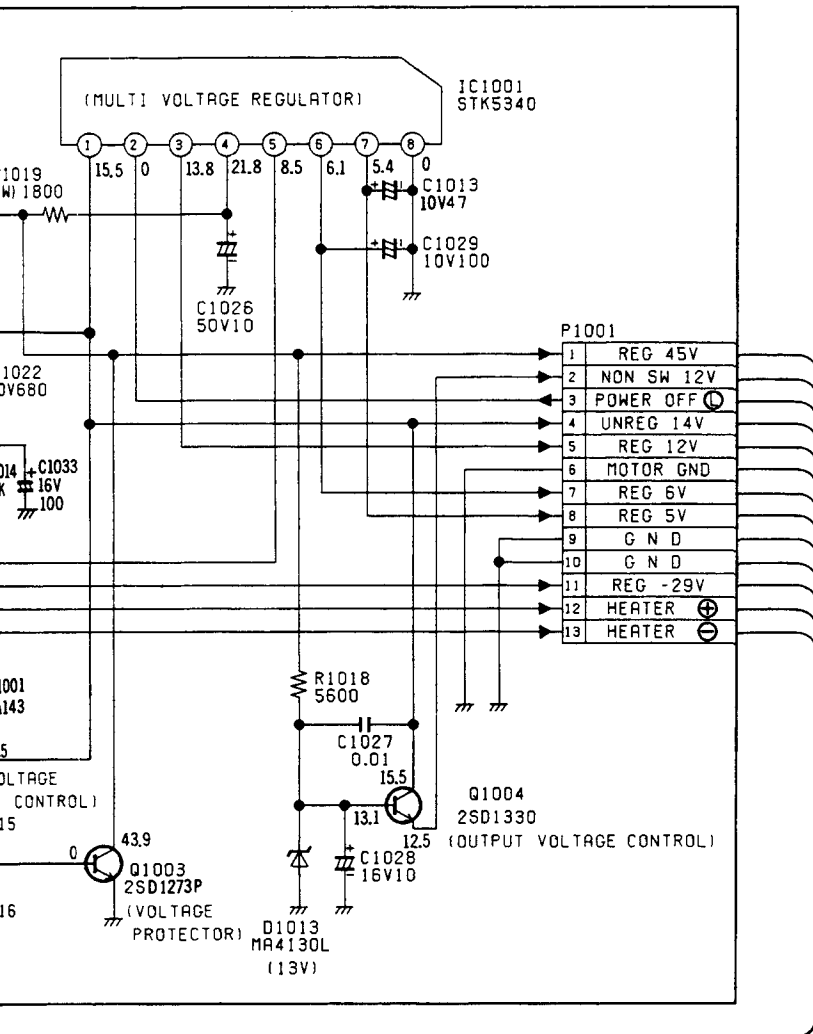


▲
 POWER SUPPLY SECTION
 IN MAIN C.B.A.
 (VEP03493E:NV-G40EG)
 (VEP03493G:NV-G40B)
 (VEP03493C:NV-G40A)
 (VEP03493D:NV-G40EA)
 (VEP03493AC:NV-G45A)
 (VEP03493AD:NV-G45EA)

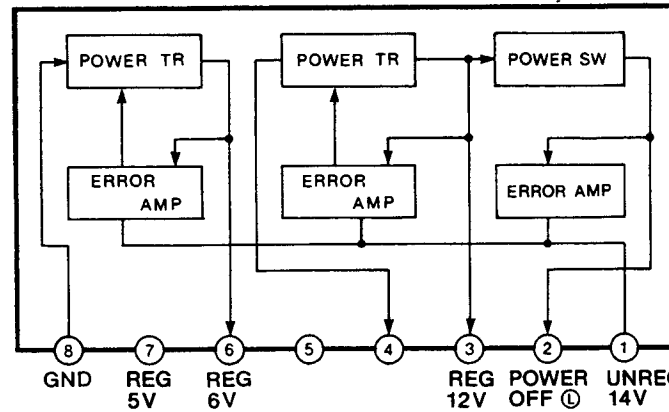


POWER SUPPLY SECTION
 IN MAIN C.B.A.
 (VEPO3493E:NV-G40EG)
 (VEPO3493G:NV-G40B)
 (VEPO3493C:NV-G40A)
 (VEPO3493D:NV-G40EA)
 (VEPO3493AC:NV-G45A)
 (VEPO3493AD:NV-G45EA)

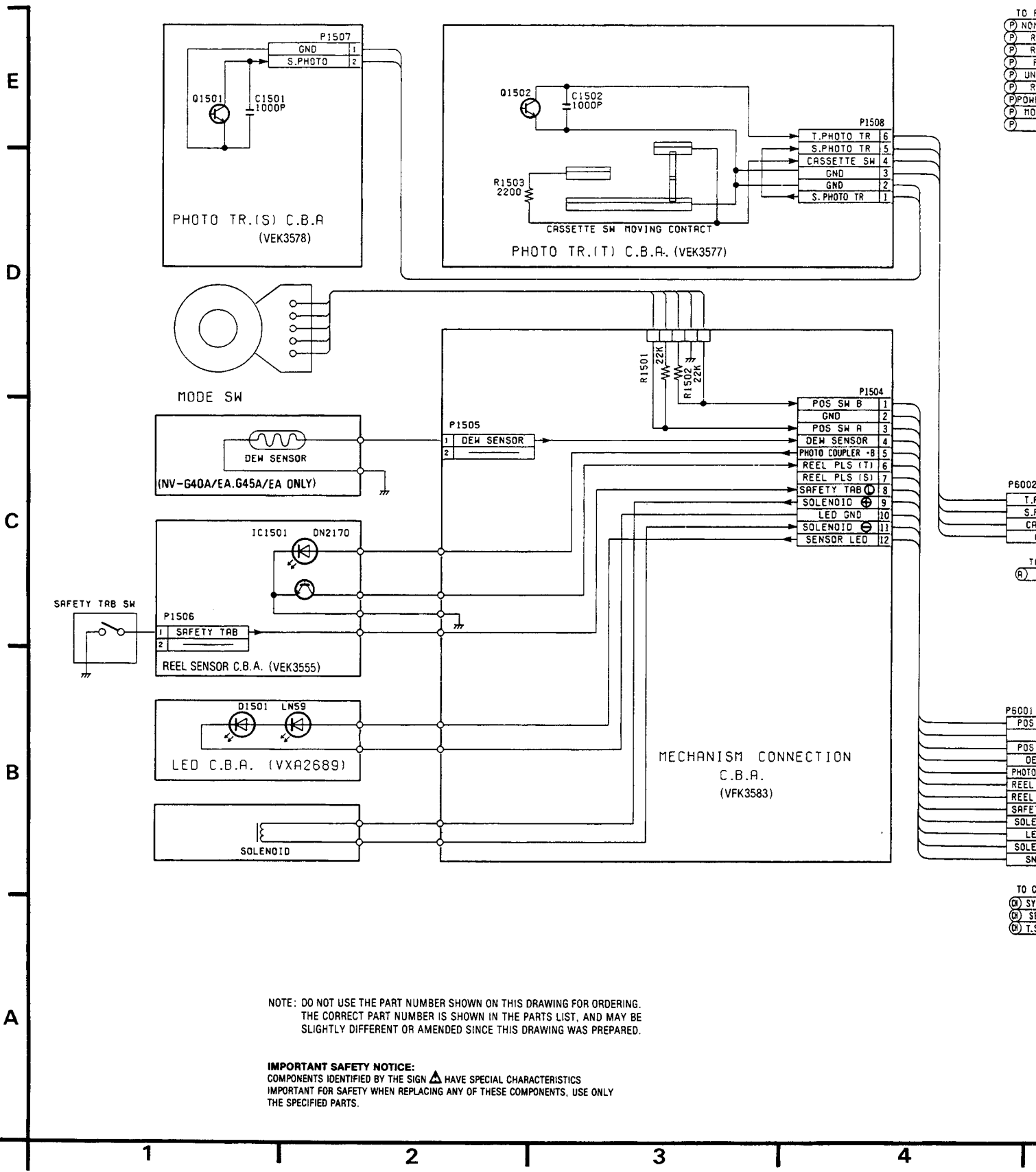
SE... TO SERVO
 V... TO LUMINANCE & CHROMINANCE
 A... TO AUDIO
 CH... TO CH SELECT
 SY... TO SYSTEM CTL

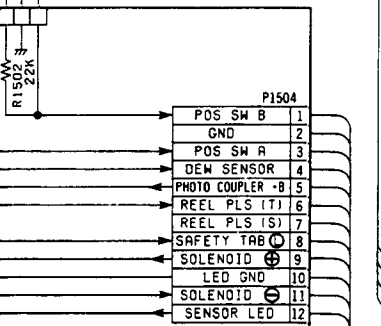
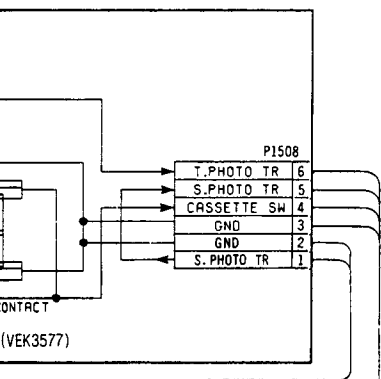


IC BLOCK IC1001 (STK5340)

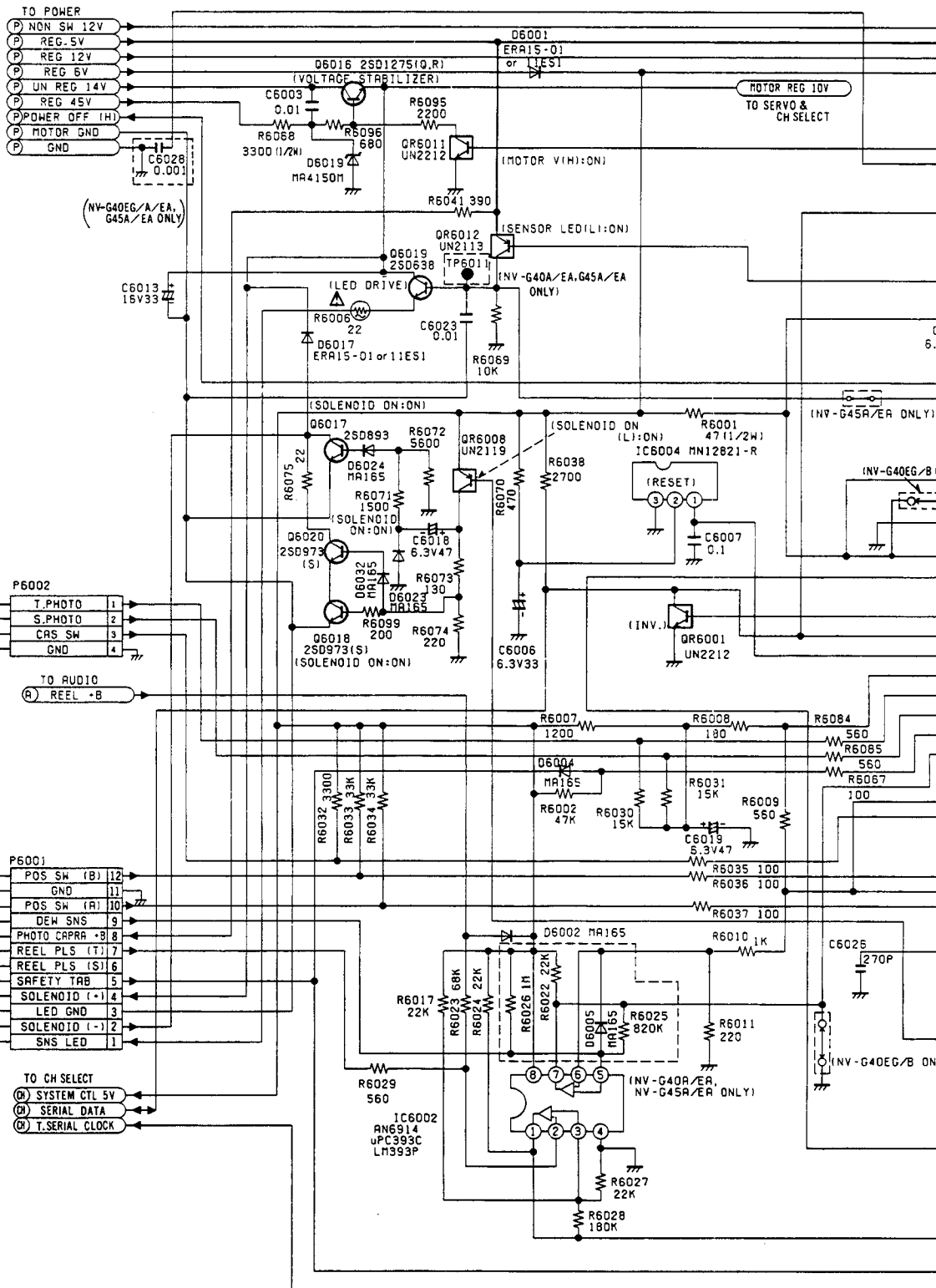


3-7. SYSTEM CONTROL SCHEMATIC DIAGRAM





MECHANISM CONNECTION
C.B.A.
(VFK3583)

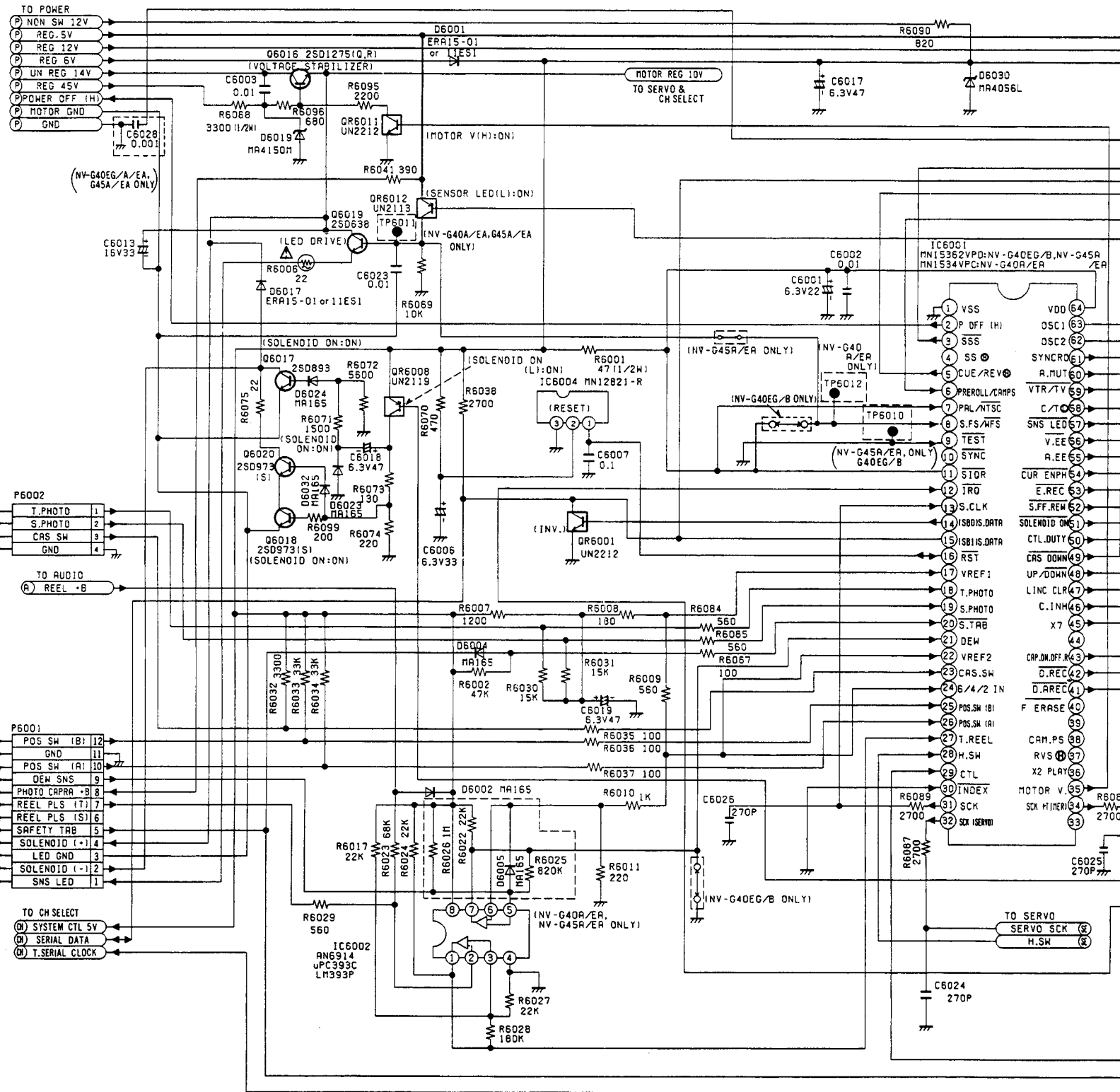


4

5

6

7



- TO POWER
- P NON SW 12V
 - P REG 5V
 - P REG 12V
 - P REG 6V
 - P UN REG 14V
 - P REG 45V
 - P POWER OFF (H)
 - P MOTOR GND
 - P GND

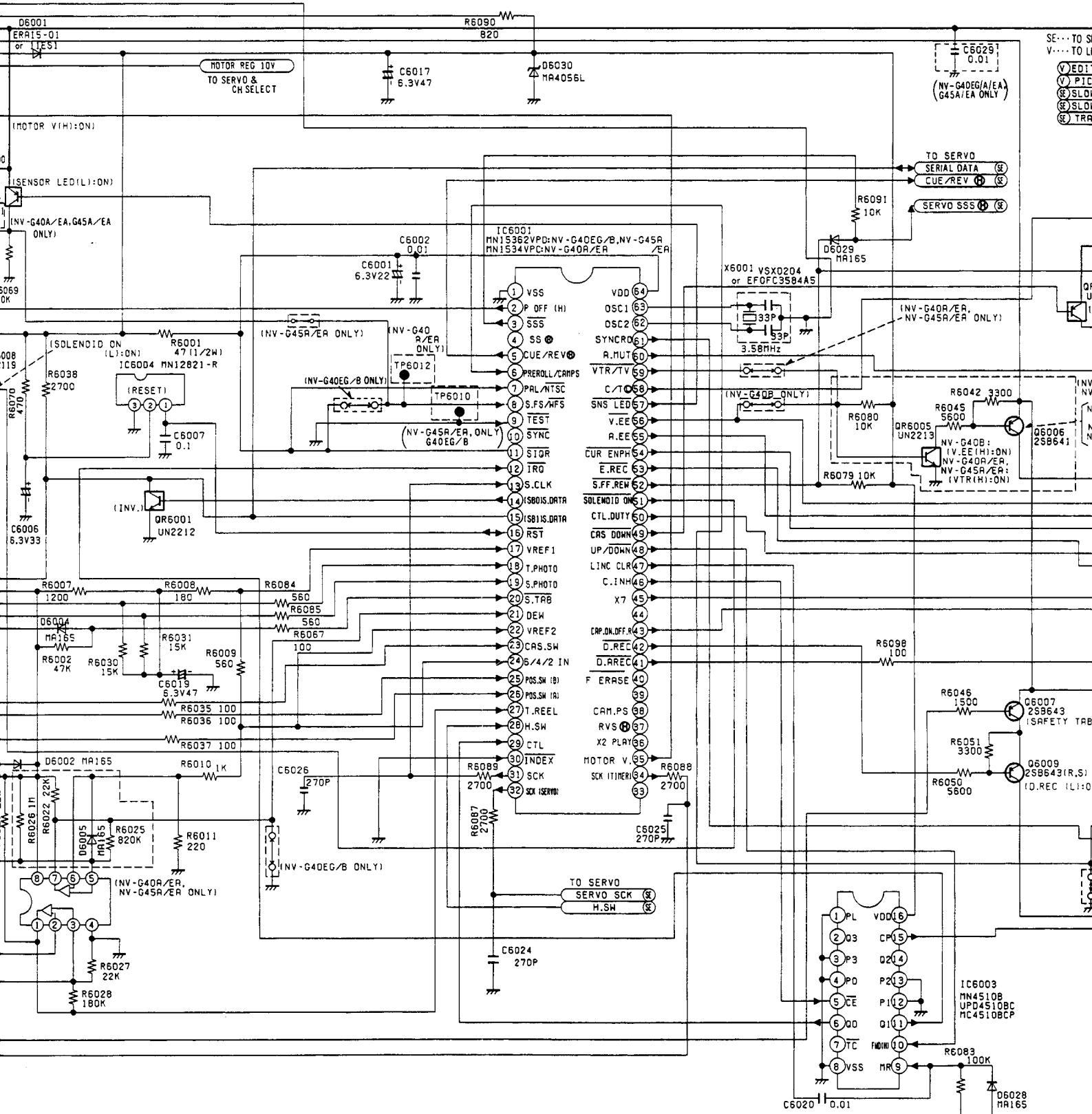
- P6002
- 1 T.PHOTO
 - 2 S.PHOTO
 - 3 CAS SW
 - 4 GND

- P6001
- 12 POS SW (B)
 - 11 GND
 - 10 POS SW (A)
 - 9 DEW SNS
 - 8 PHOTO CAPRA +B
 - 7 REEL PLS (T)
 - 6 REEL PLS (S)
 - 5 SAFETY TAB
 - 4 SOLENOID (+)
 - 3 LED GND
 - 2 SOLENOID (-)
 - 1 SNS LED

- TO CH SELECT
- (H) SYSTEM CTL 5V
 - (H) SERIAL DATA
 - (H) T.SERIAL CLOCK

- IC6001
- 1 VSS
 - 2 P OFF (H)
 - 3 SSS
 - 4 SS
 - 5 CUE/REV
 - 6 PREROLL/TAMPS
 - 7 PAL/NTSC
 - 8 S.FS/WFS
 - 9 TEST
 - 10 SYNC
 - 11 SIOR
 - 12 IRO
 - 13 S.CLK
 - 14 ISB0IS.DATA
 - 15 ISB1IS.DATA
 - 16 RST
 - 17 VREF1
 - 18 T.PHOTO
 - 19 S.PHOTO
 - 20 S.TAB
 - 21 DEW
 - 22 VREF2
 - 23 CAS.SW
 - 24 G/4/2 IN
 - 25 POS.SW (B)
 - 26 POS.SW (A)
 - 27 T.REEL
 - 28 H.SW
 - 29 CTL
 - 30 INDEX
 - 31 SCK
 - 32 SCK (SERVO)
- VDD (64)
 - OSC1 (63)
 - OSC2 (62)
 - SYNCRO (61)
 - A.MUT (60)
 - VTR/TV (59)
 - C/T (58)
 - SNS LED (57)
 - V.EE (56)
 - A.EE (55)
 - CUR ENPH (54)
 - E.REC (53)
 - S.FF.REW (52)
 - SOLENOID ON (51)
 - CTL.DUTY (50)
 - CAS DOWN (49)
 - UP/DOWN (48)
 - LINC CLR (47)
 - C.INH (46)
 - X7 (45)
 - 44
 - CAP.ON.OFF (43)
 - D.REC (42)
 - D.REC (41)
 - F.ERASE (40)
 - 99
 - CAM.PS (98)
 - RVS (97)
 - X2 PLAY (96)
 - MOTOR V. (95)
 - R608
 - SCK MINER (94)
 - 2700
 - C6025
 - 270P

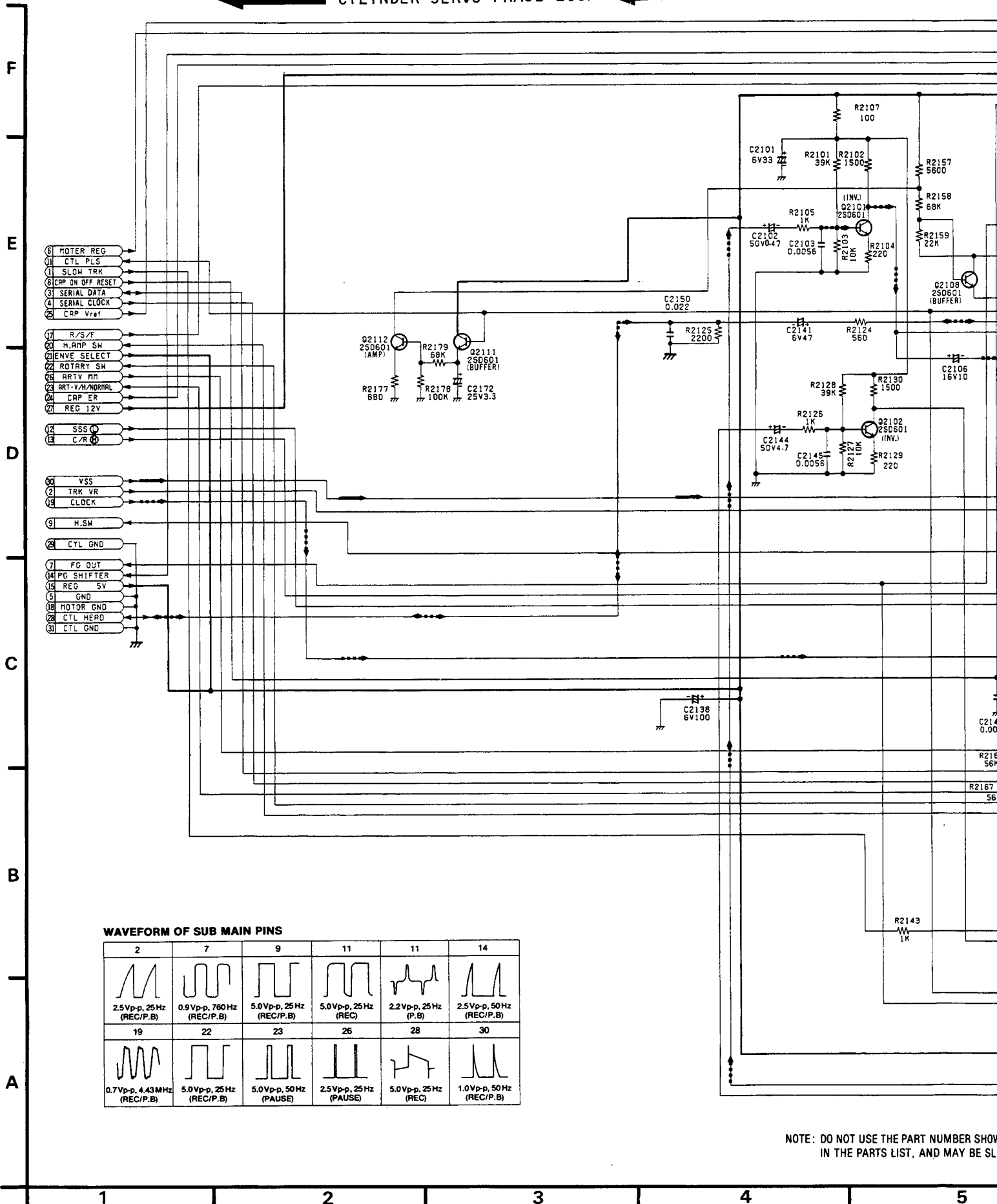
5 6 7 8



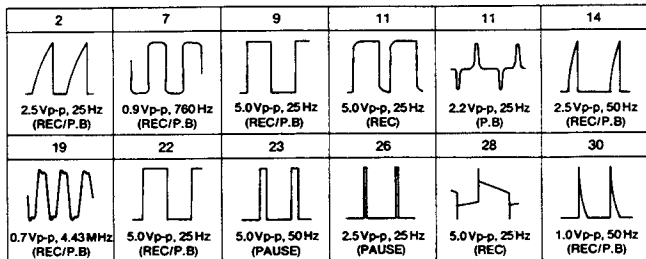
6 7 8 9 10

3-11. SUB MAIN SCHEMATIC DIAGRAM (NV-G40EG/B/A/EA)

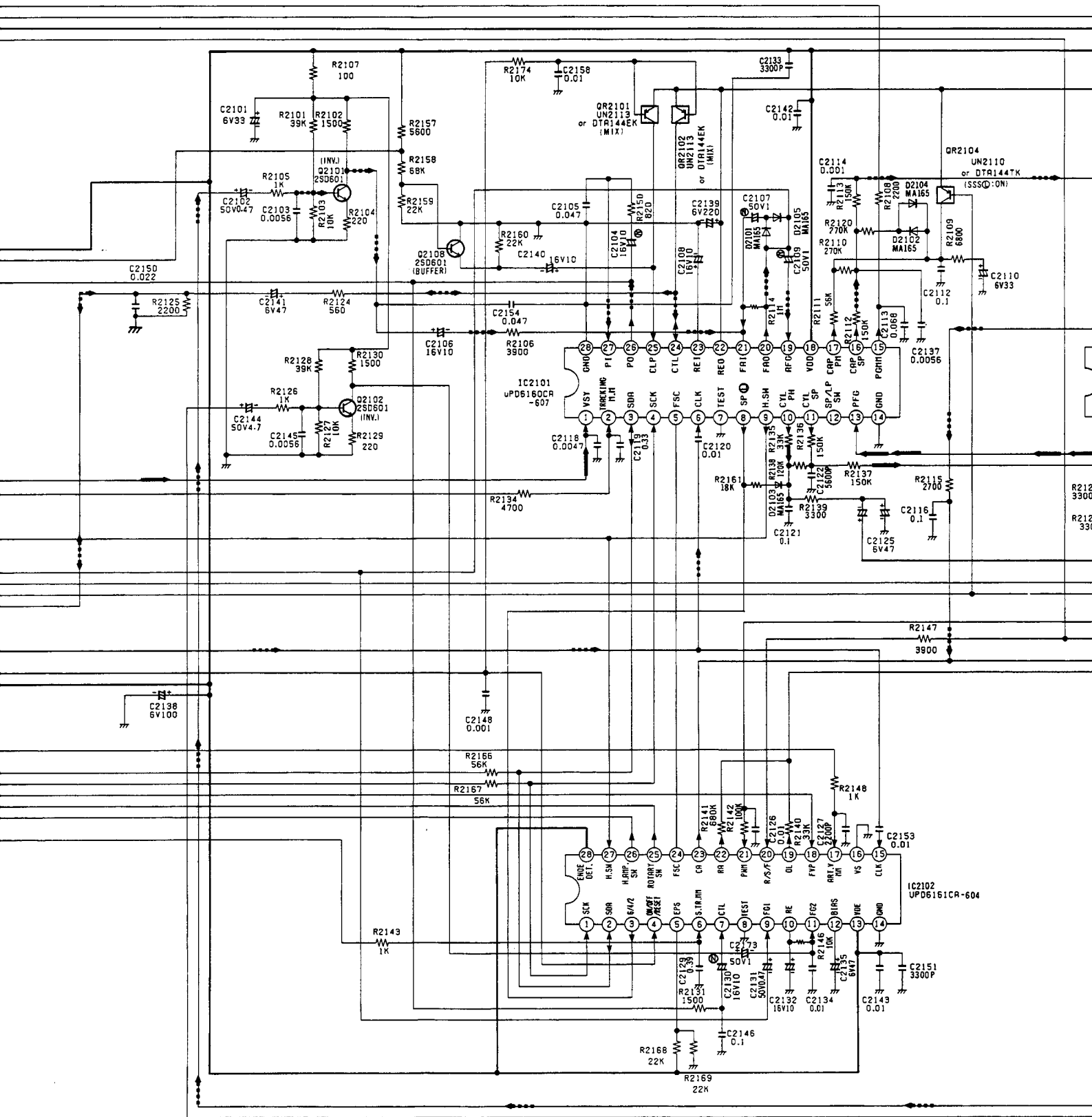
← CYLINDER SERVO PHASE LOOP ← ■ ■ ■ CAPSTAN SERVO PHASE LOOP



WAVEFORM OF SUB MAIN PINS



NOTE: DO NOT USE THE PART NUMBER SHOWN IN THE PARTS LIST, AND MAY BE SL

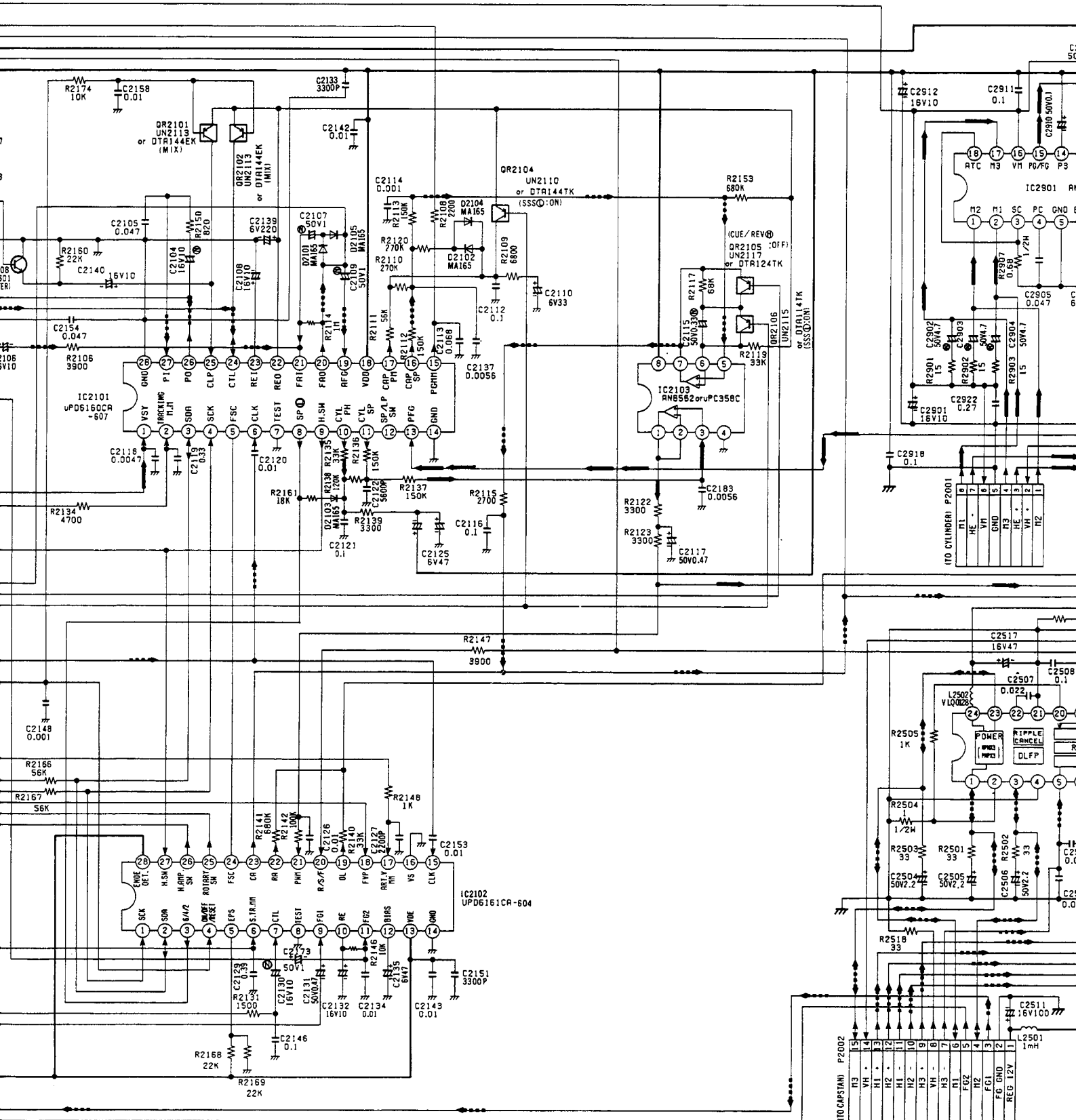


NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

LOOP

← CYLINDER SERVO SPEED LOOP

← CAPSTAN SERVO SPEED LOOP

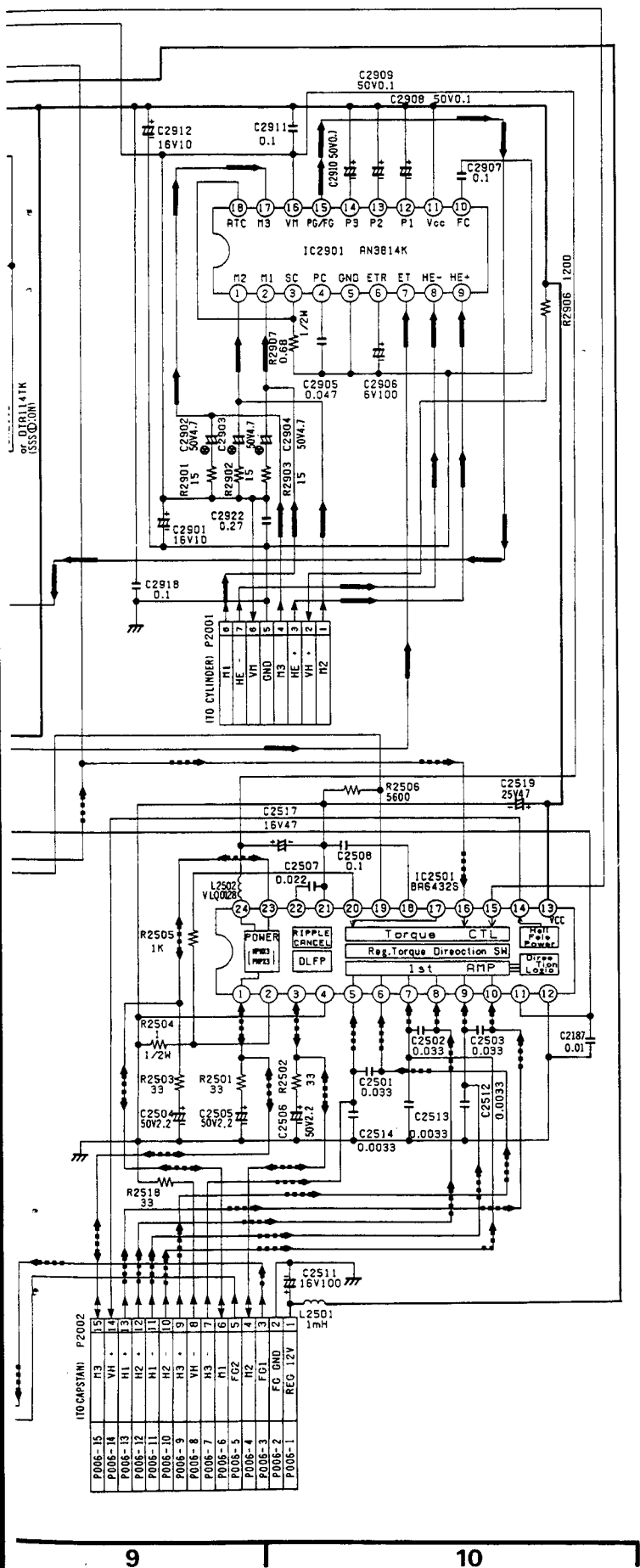


NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
 MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

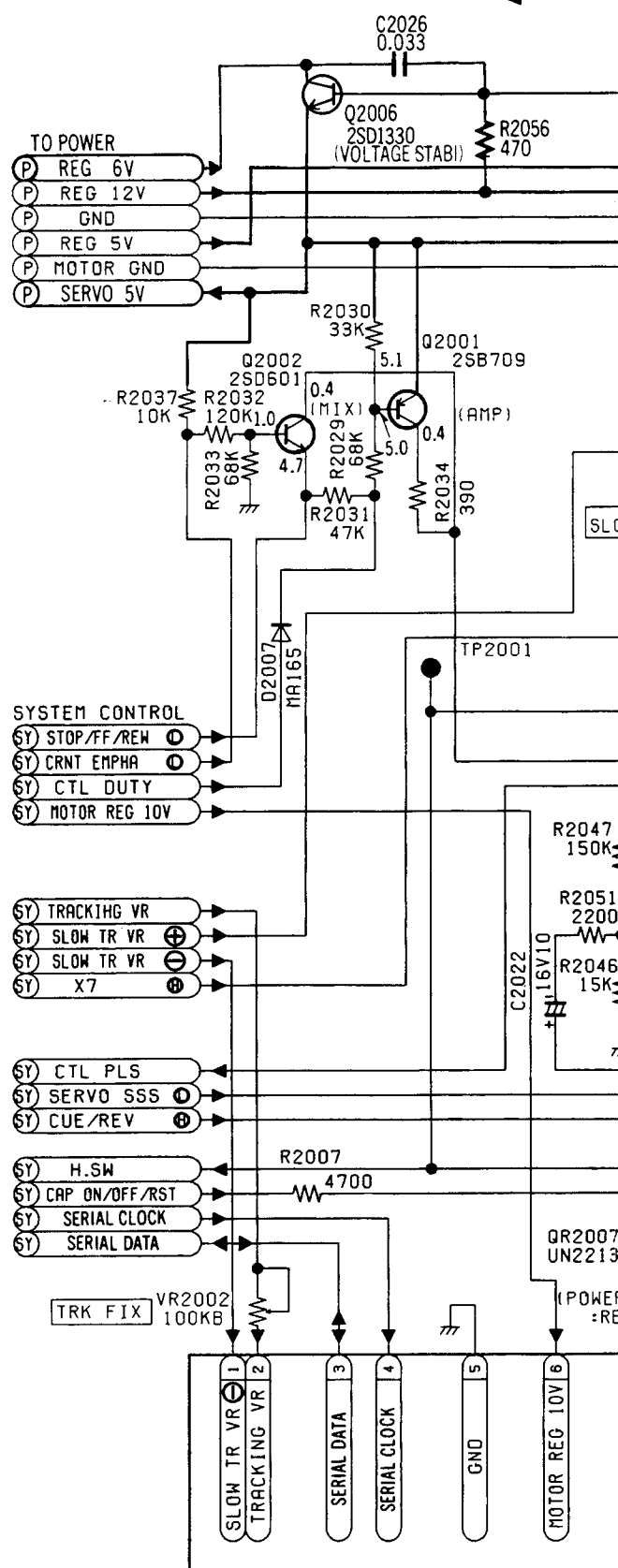
IC2101	UPD6160CA-607
IC2102	UPD6161CA-604
IC2103	AN5552 or PC358C
IC2901	ATC
IC2902	PC
IC2903	SC
IC2904	M2
IC2905	M1
IC2906	PG/FG
IC2907	P3
IC2908	GND
IC2909	1/2H
IC2910	1/2H
IC2911	1/2H
IC2912	1/2H
IC2913	1/2H
IC2914	1/2H
IC2915	1/2H
IC2916	1/2H
IC2917	1/2H
IC2918	1/2H
IC2919	1/2H
IC2920	1/2H
IC2921	1/2H
IC2922	1/2H
IC2923	1/2H
IC2924	1/2H
IC2925	1/2H
IC2926	1/2H
IC2927	1/2H
IC2928	1/2H
IC2929	1/2H
IC2930	1/2H
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IC2987	1/2H
IC2988	1/2H
IC2989	1/2H
IC2990	1/2H
IC2991	1/2H
IC2992	1/2H
IC2993	1/2H
IC2994	1/2H
IC2995	1/2H
IC2996	1/2H
IC2997	1/2H
IC2998	1/2H
IC2999	1/2H
IC3000	1/2H

3-12. SERVO SCHEMATIC DIAGRAM (NV)

D LOOP

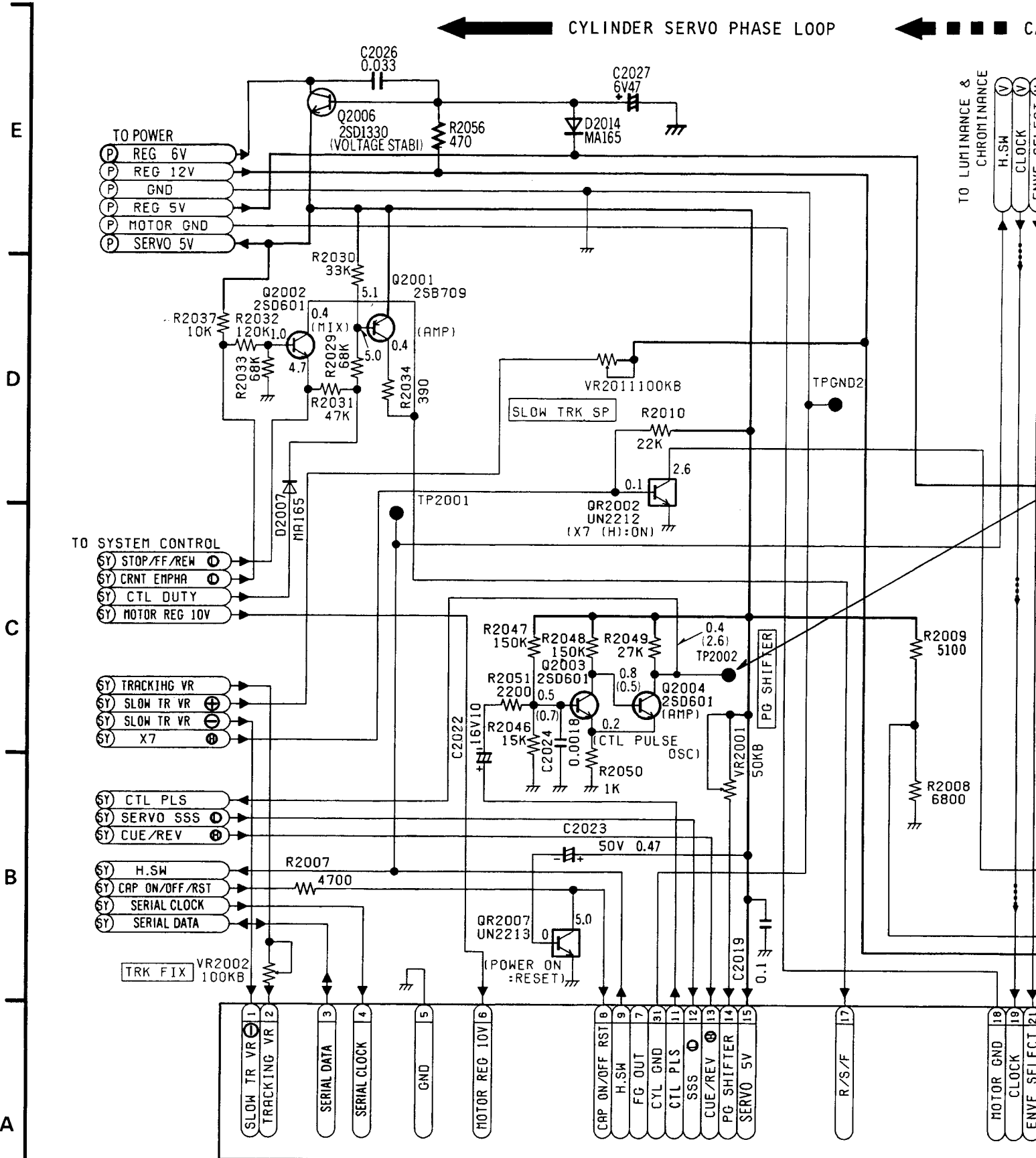


E
D
C
B
A



NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, A SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS

3-12. SERVO SCHEMATIC DIAGRAM (NV-G40EG/B/A/EA)



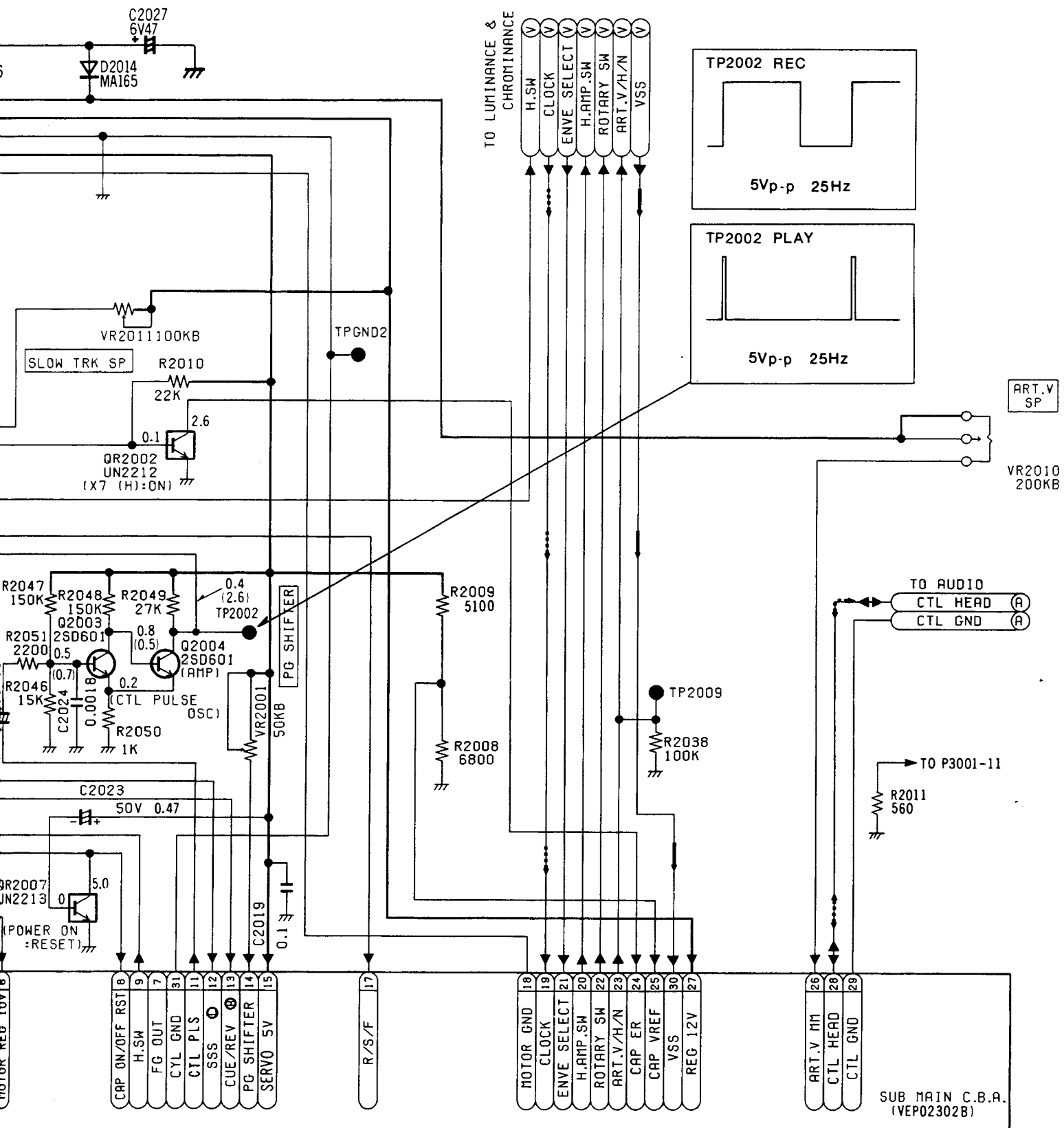
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE WITH PAL COLOUR SIGNAL. THE MEASUREMENT MODE OF THE DC VOLTAGE WITH PAL COLOUR SIGNAL.

(NV-G40EG/B/A/EA)

CYLINDER SERVO PHASE LOOP

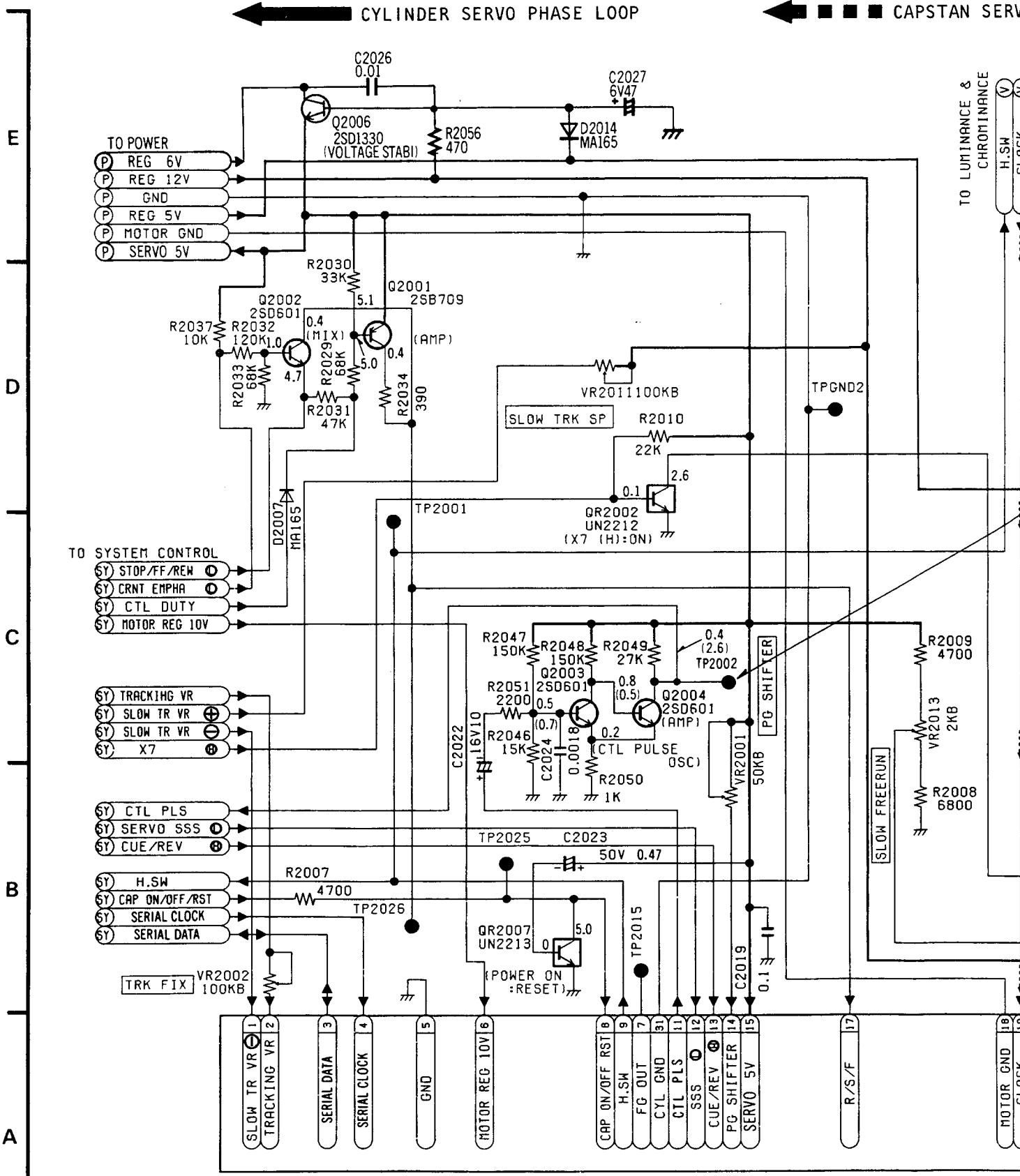
← ■ ■ ■ CAPSTAN SERVO PHASE LOOP



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

3 4 5 6

3-13. SERVO SCHEMATIC DIAGRAM (NV-G45A/EA)

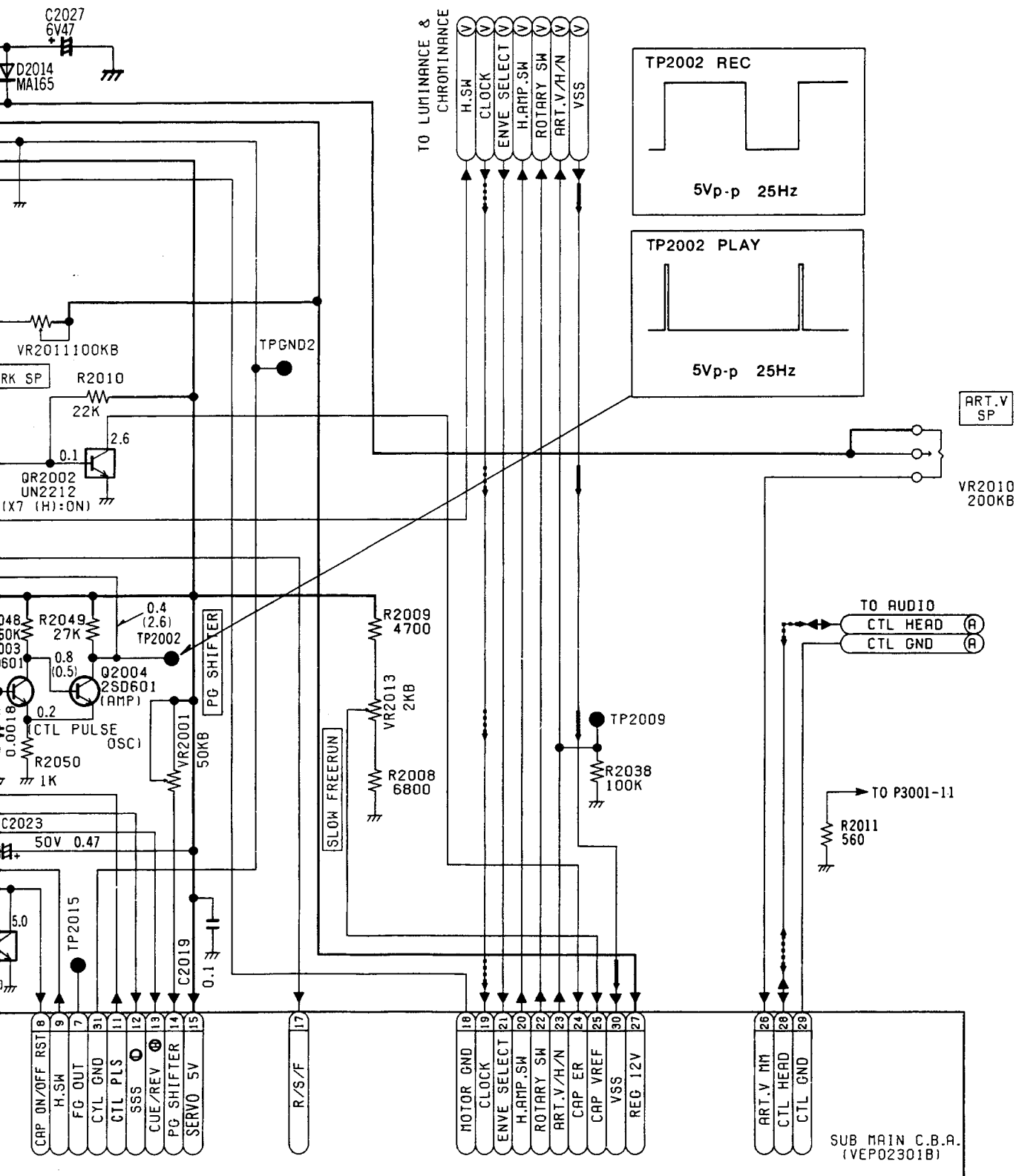


NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE WITH PAL COLOUR SIGNAL. THE MEASUREMENT MODE OF THE DC VOLTAGE WITH PAL COLOUR SIGNAL.

SE LOOP

← ■ ■ ■ ■ CAPSTAN SERVO PHASE LOOP

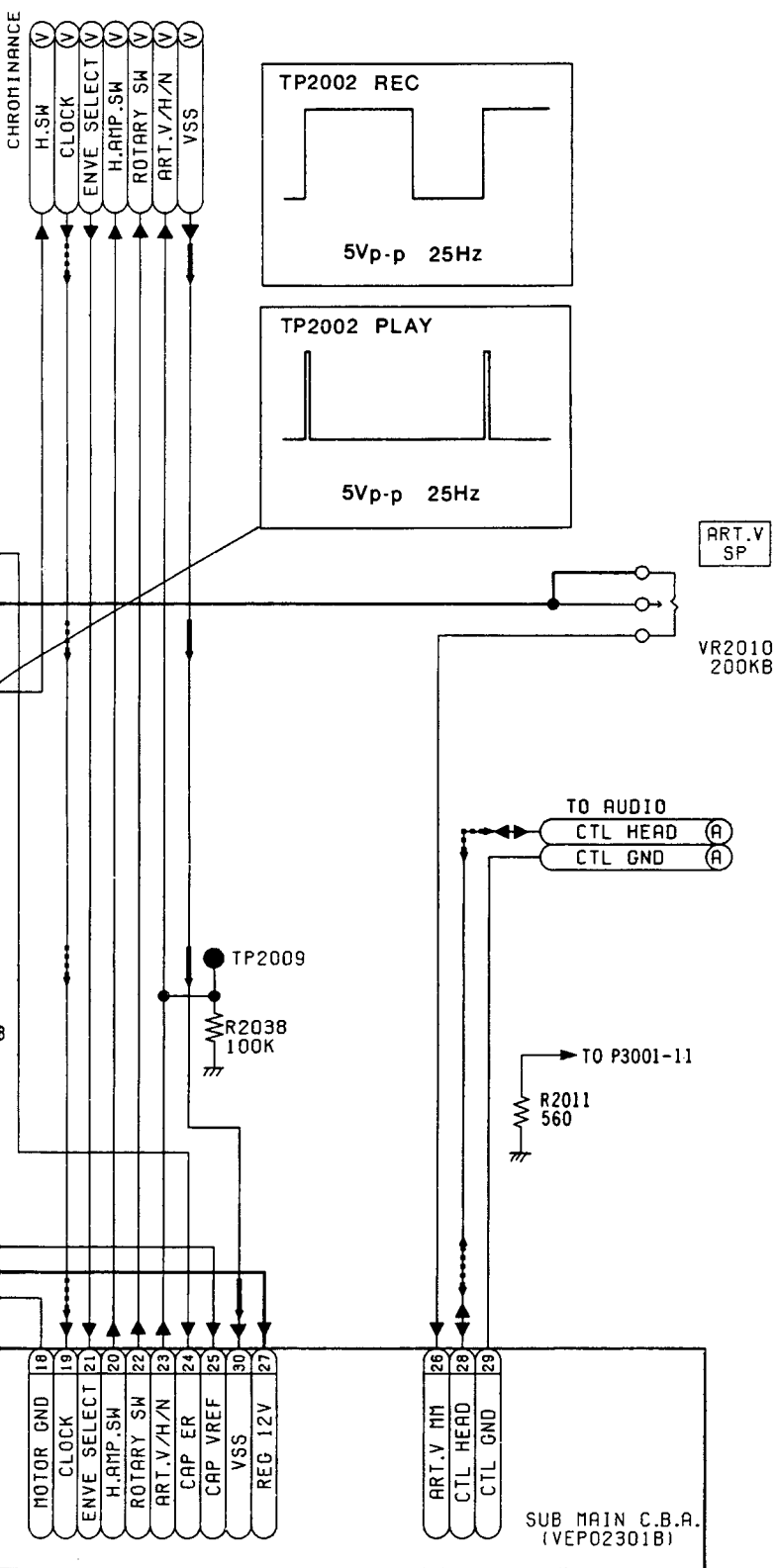


NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS () ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.
 THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

3 | 4 | 5 | 6

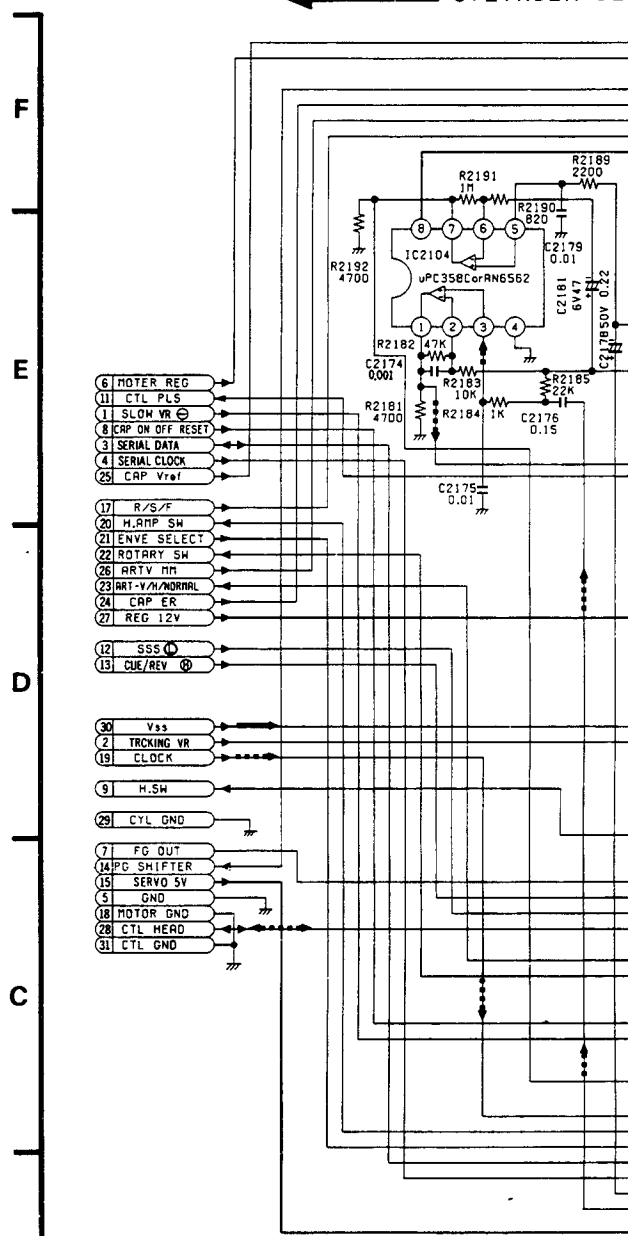
3-14. SUB MAIN SCHEMATIC DI

SERVO PHASE LOOP



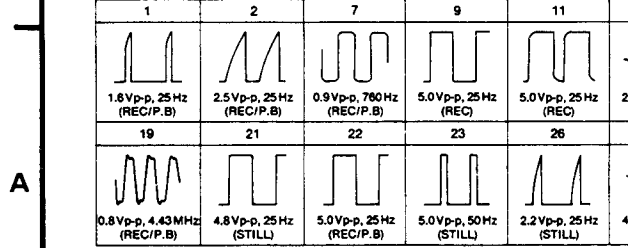
VOLTAGE IN THE BRACKETS () ON THIS DIAGRAM IS RECORD MODE
 VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE

← CYLINDER SE



B

WAVEFORM OF SUB MAIN PINS



A

5

6

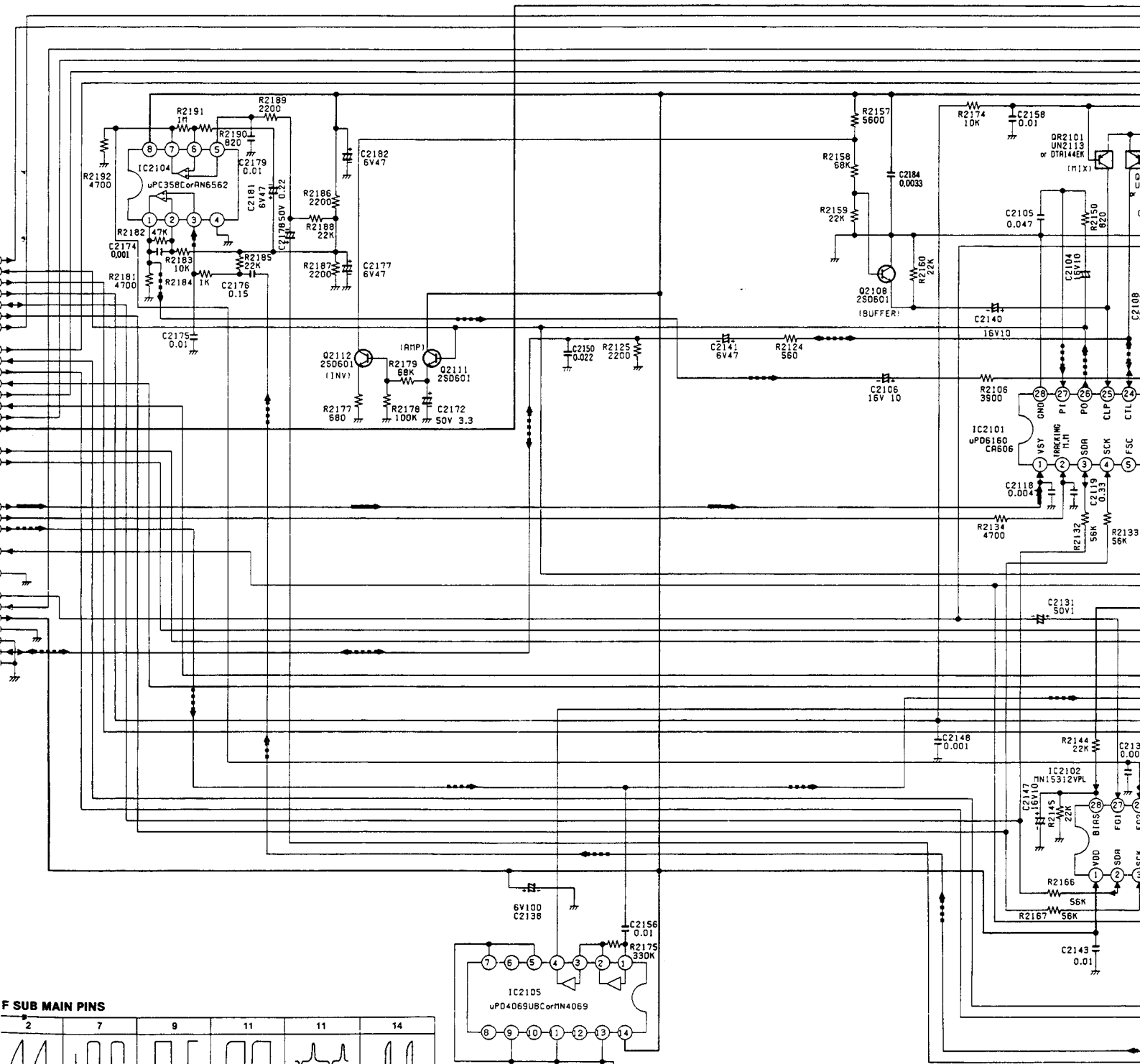
1

2

MAIN SCHEMATIC DIAGRAM (NV-G45A/EA)

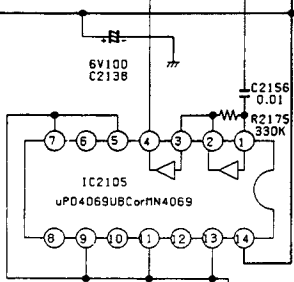
← CYLINDER SERVO PHASE LOOP

← ■ ■ ■ CAPSTAN SERVO PHASE LOOP

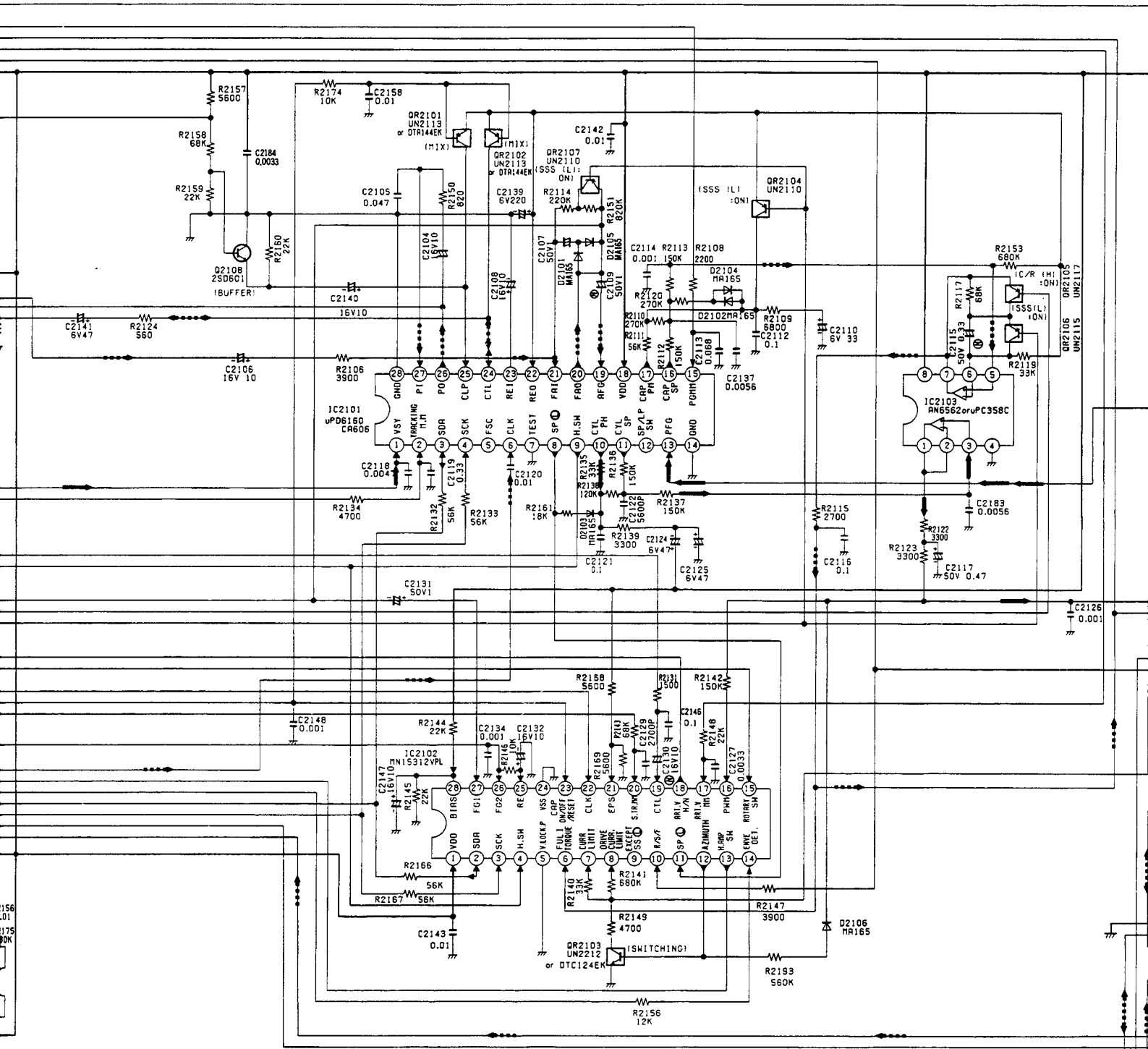


F SUB MAIN PINS

2	7	9	11	11	14
21	22	23	26	28	30



NOTE: DO NOT USE THE PART NUMBER SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT.



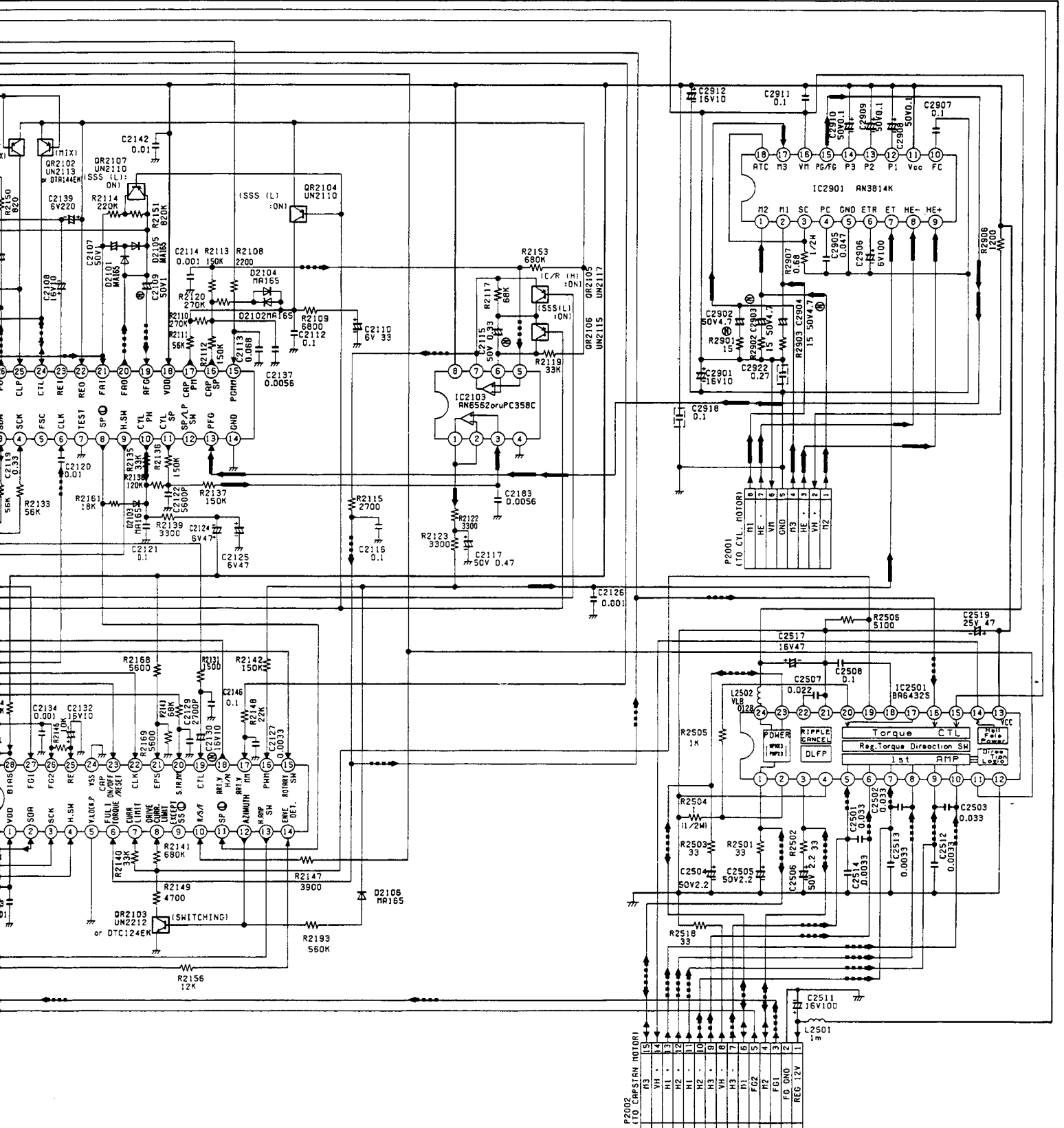
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

PC358C
TO CAPSTAN MOTOR

P006-15	R3	15
P006-14	VH	14
P006-13	HL	13

CYLINDER SERVO SPEED LOOP

← CAPSTAN SERVO SPEED LOOP



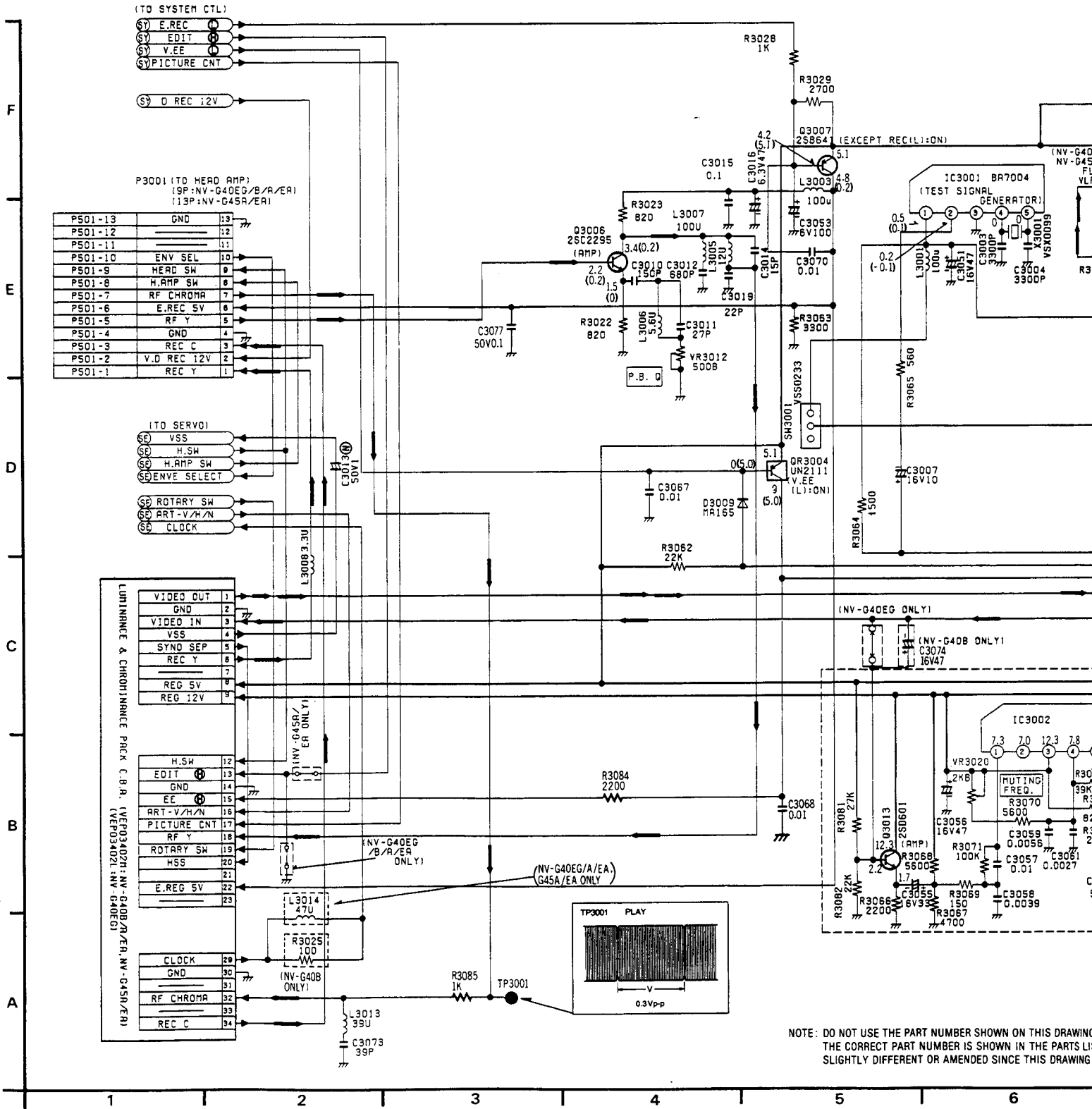
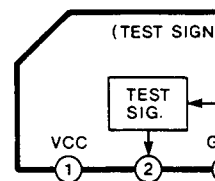
NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

P008-15	R3
P008-14	WH
P008-13	H1
P008-12	H2
P008-11	H1
P008-10	H2
P008-9	H3
P008-8	WH
P008-7	H3
P008-6	H1
P008-5	FZ2
P008-4	FZ1
P008-3	FZ1
P008-2	FC GND
P008-1	REG 12V

3-17. LUMINANCE & CHROMINANCE SCHEMATIC DIAGRAM

IC BLOCK
IC3001 (BA7004)

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



(TO SYSTEM CTL)

- (S) E.REC
- (S) EDIT
- (S) V.EE
- (S) PICTURE CNT
- (S) D REC 12V

P3001 (TO HEAD AMP)
(9P:NV-G40EG/B/A/EA)
(13P:NV-G45R/EA)

P501-13	GND	13
P501-12		12
P501-11		11
P501-10	ENV SEL	10
P501-9	HEAD SW	9
P501-8	H.AMP SW	8
P501-7	RF CHROMA	7
P501-6	E.REC 5V	6
P501-5	RF Y	5
P501-4	GND	4
P501-3	REC C	3
P501-2	V.D REC 12V	2
P501-1	REC Y	1

(TO SERVO)

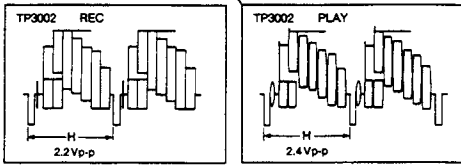
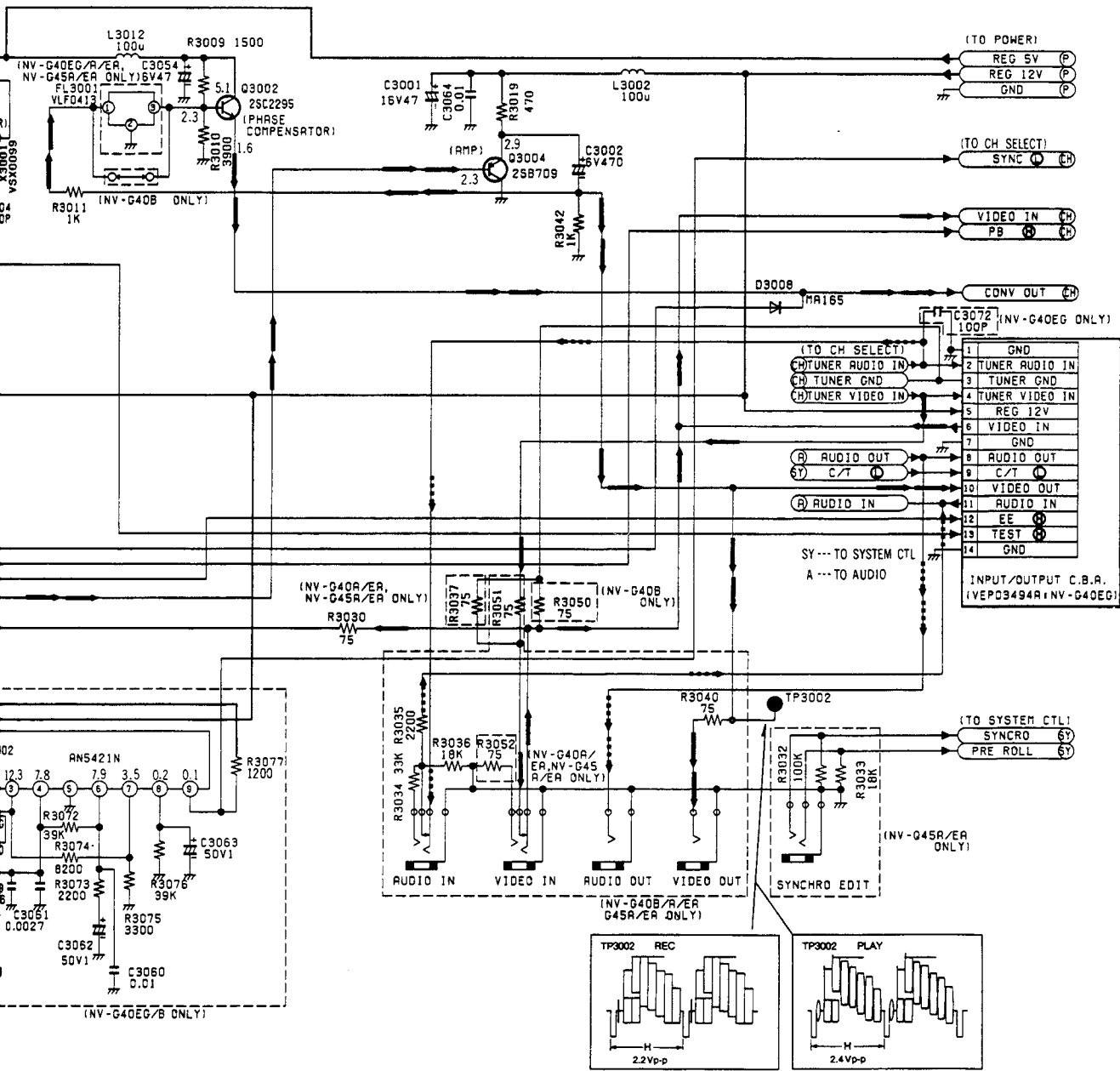
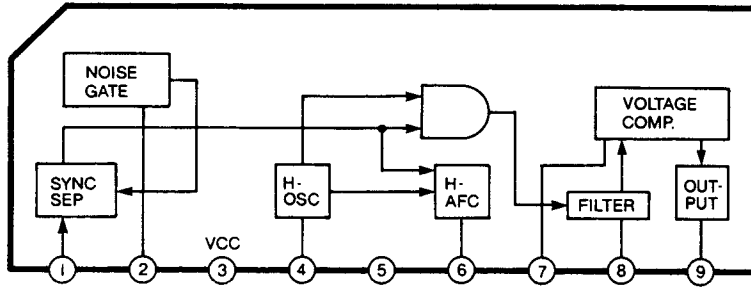
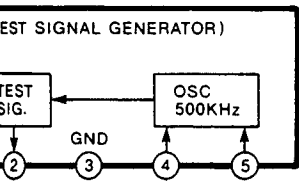
- (S) VSS
- (S) H.SW
- (S) H.AMP SW
- (S) ENV SELECT
- (S) ROTARY SW
- (S) ART-V/H/N
- (S) CLOCK

LUMINANCE & CHROMINANCE PACK C.B.A.
(VEP034027:NV-G40B/R/EA, NV-G45R/EA)
(VEP034021:NV-G40EG)

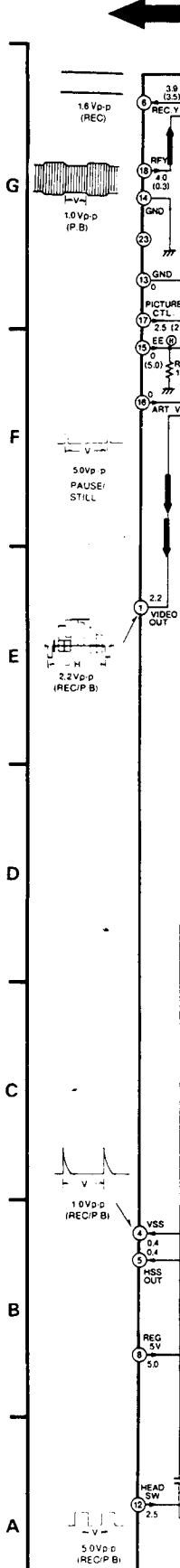
VIDEO OUT	1
GND	2
VIDEO IN	3
VSS	4
SYND SEP	5
REC Y	6
REG 5V	7
REG 12V	8
H.SW	12
EDIT	13
GND	14
EE	15
ART-V/H/N	16
PICTURE CNT	17
RF Y	18
ROTARY SW	19
HSS	20
E.REC 5V	21
CLOCK	28
GND	30
RF CHROMA	32
REC C	34

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST. SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING.

IC3002 (AN5421N)



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



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

PACK SCHEMATIC DIAGRAM

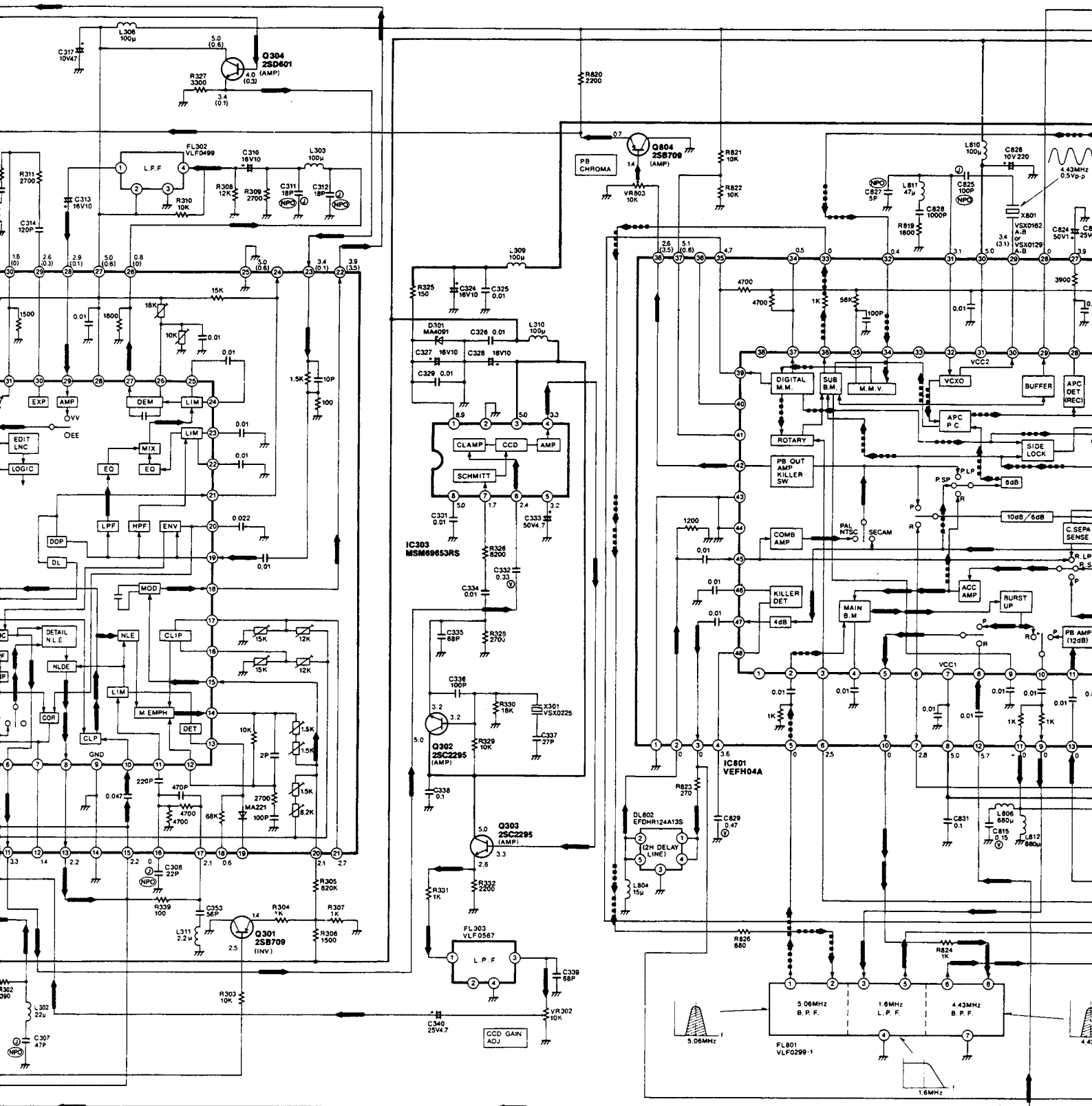
MODE



MAIN SIGNAL PATH IN PLAYBACK MODE

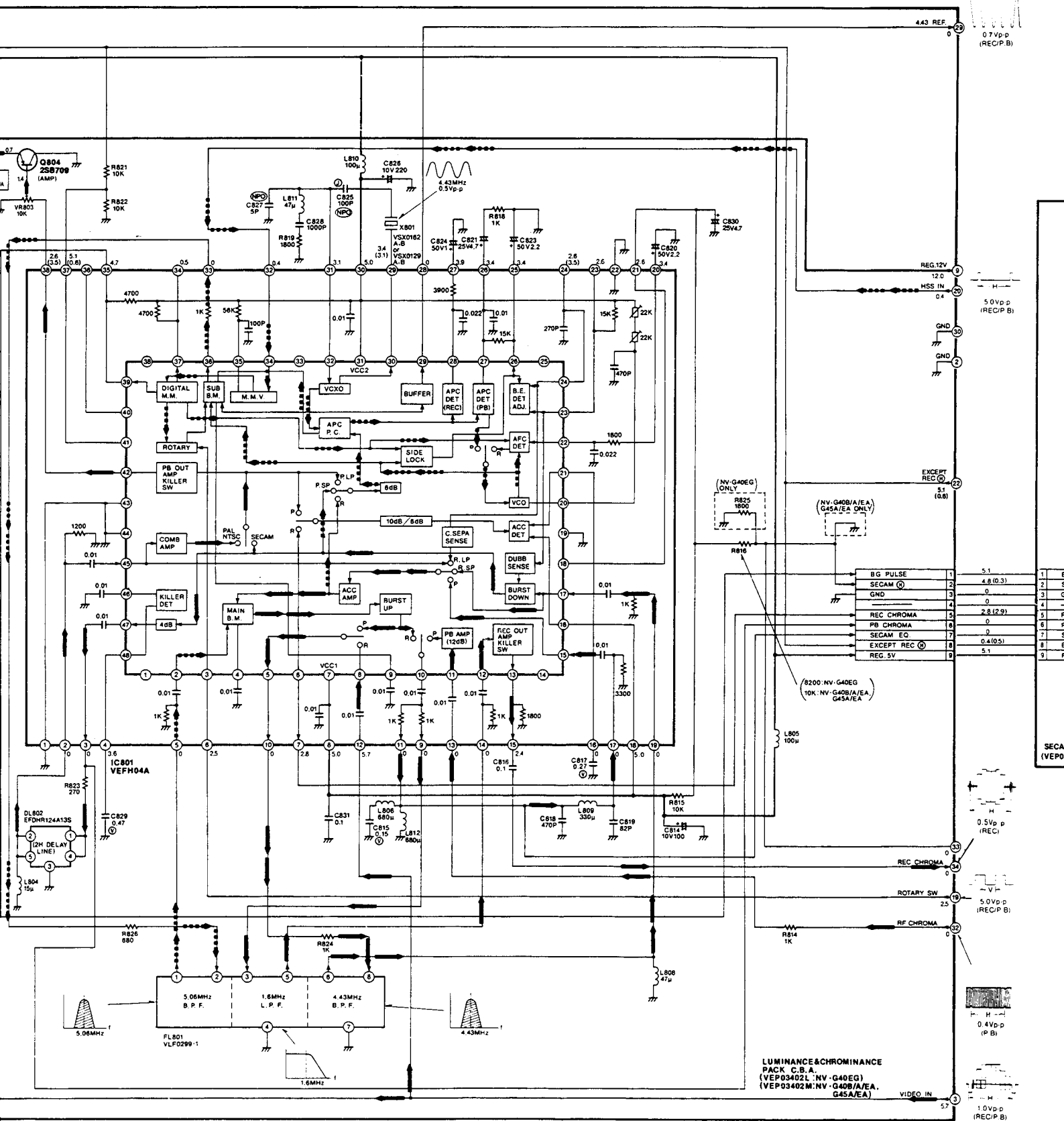


5.06MHz PHASE ROTATIO



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

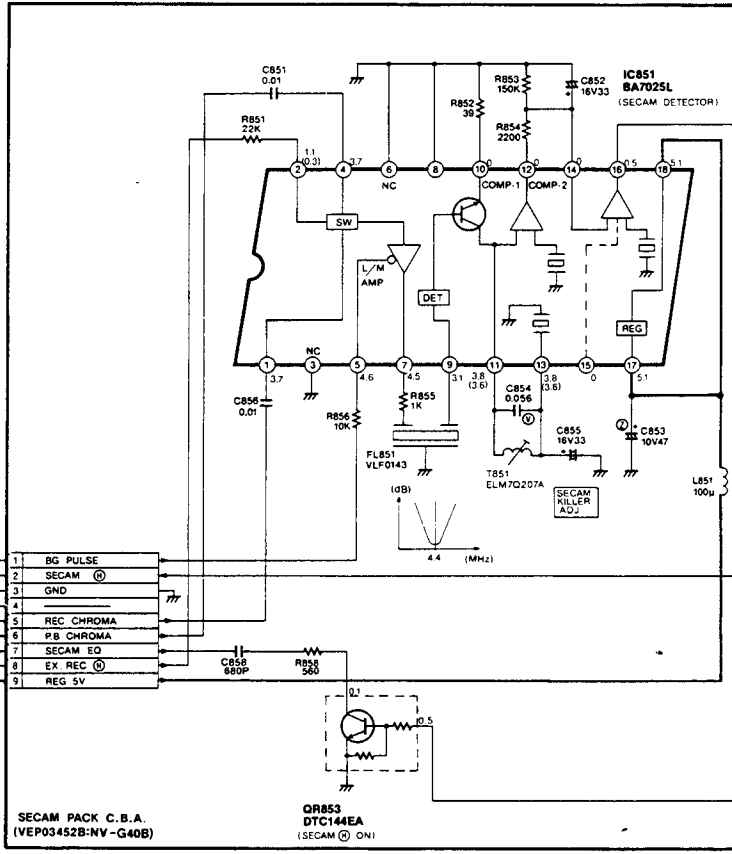
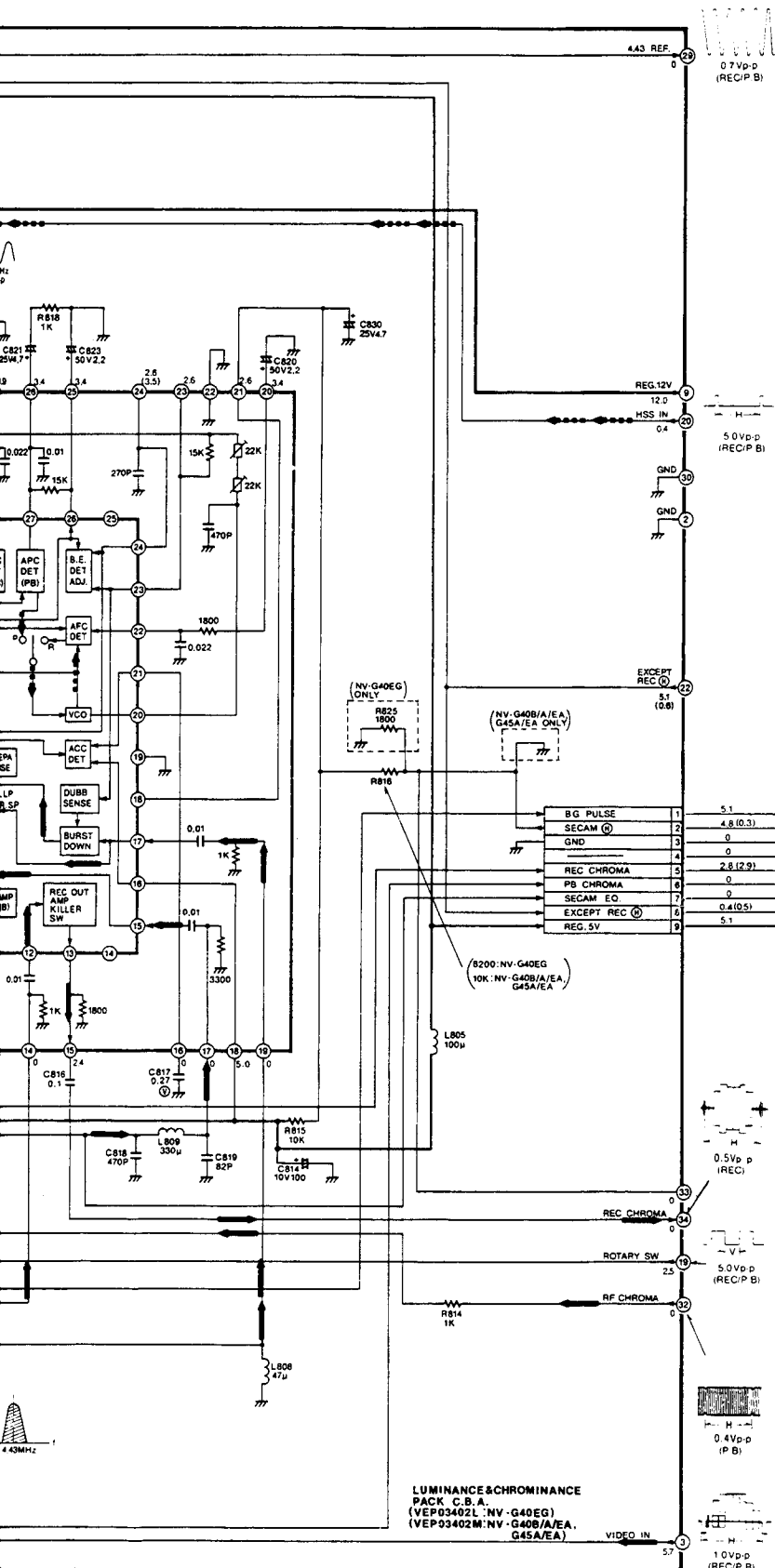
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.



DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.



ONAL SIGNAL IN REC MODE

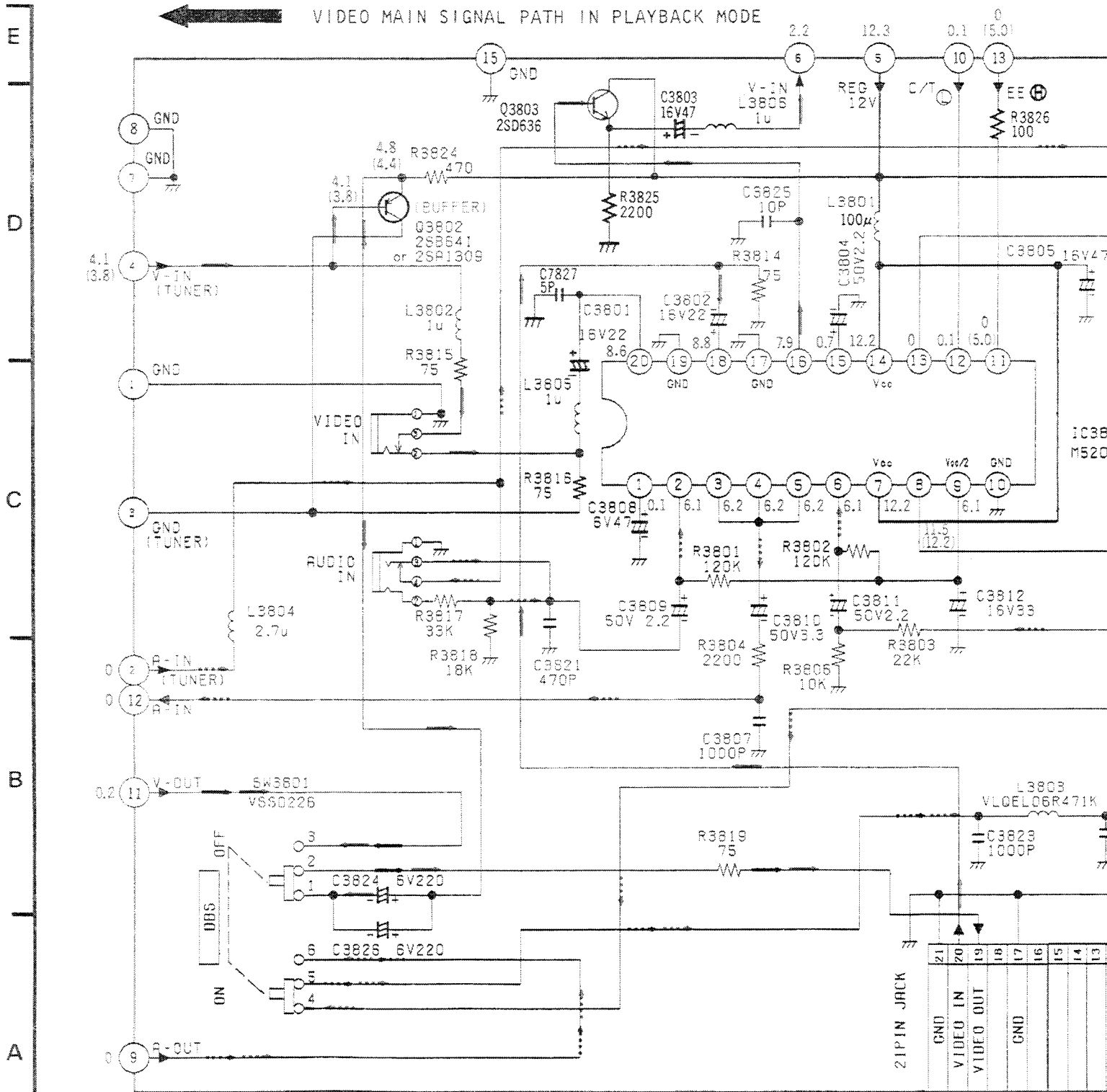
5.06MHz PHASE ROTATIONAL SIGNAL IN PLAYBACK MODE



NUMBER IS SHOWN REPAIRED.

3-21. INPUT/OUTPUT PACK SCHEMATIC DIAGRAM (NV-G40EG)

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



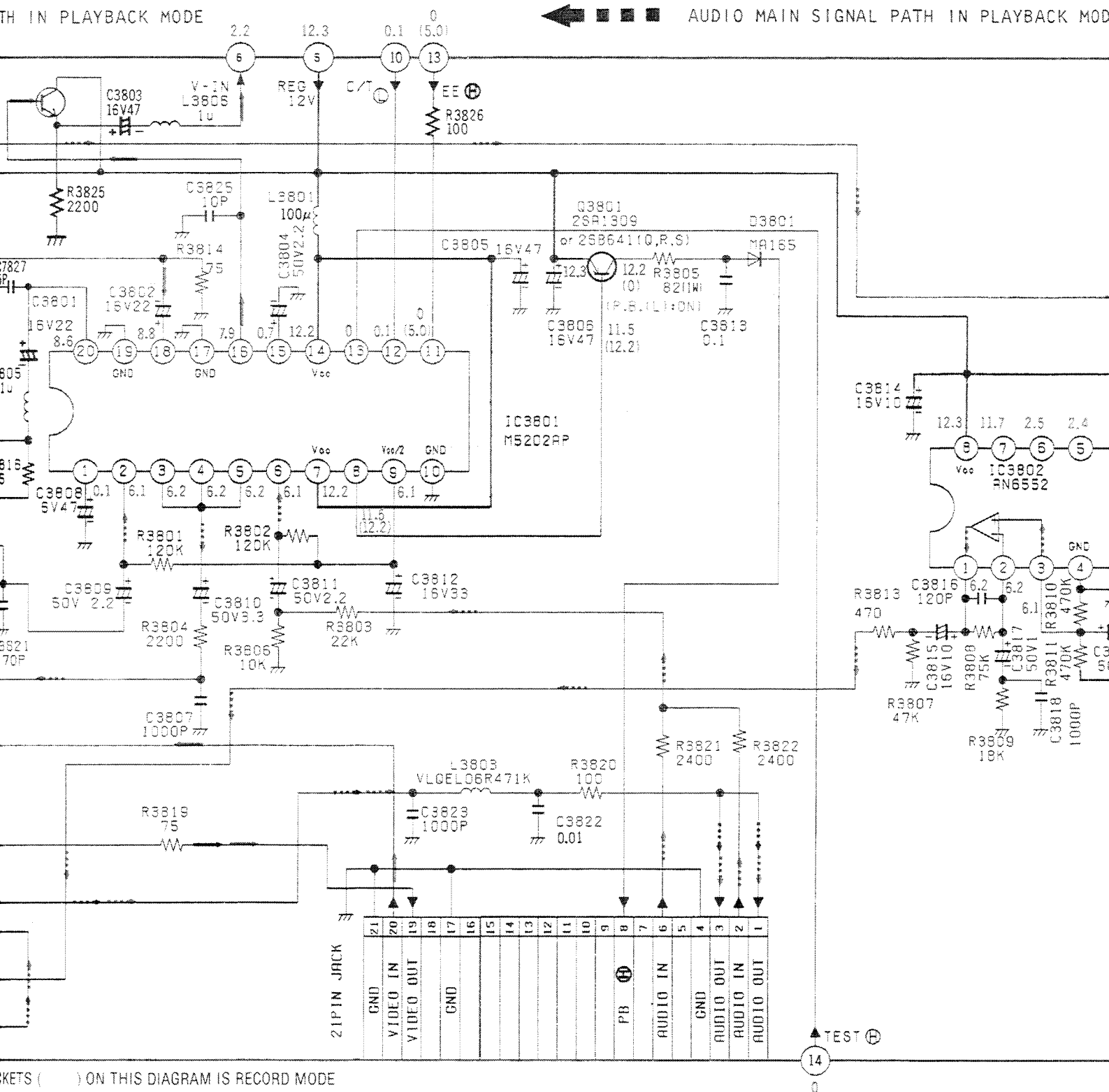
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS () ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.
 THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

NOTE: DO NOT USE IN THE PAR

CIRCUIT DIAGRAM (NV-G40EG)

WITH IN REC MODE
WITH IN PLAYBACK MODE

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



BRACKETS () ON THIS DIAGRAM IS RECORD MODE

BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS LISTED IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING

3

4

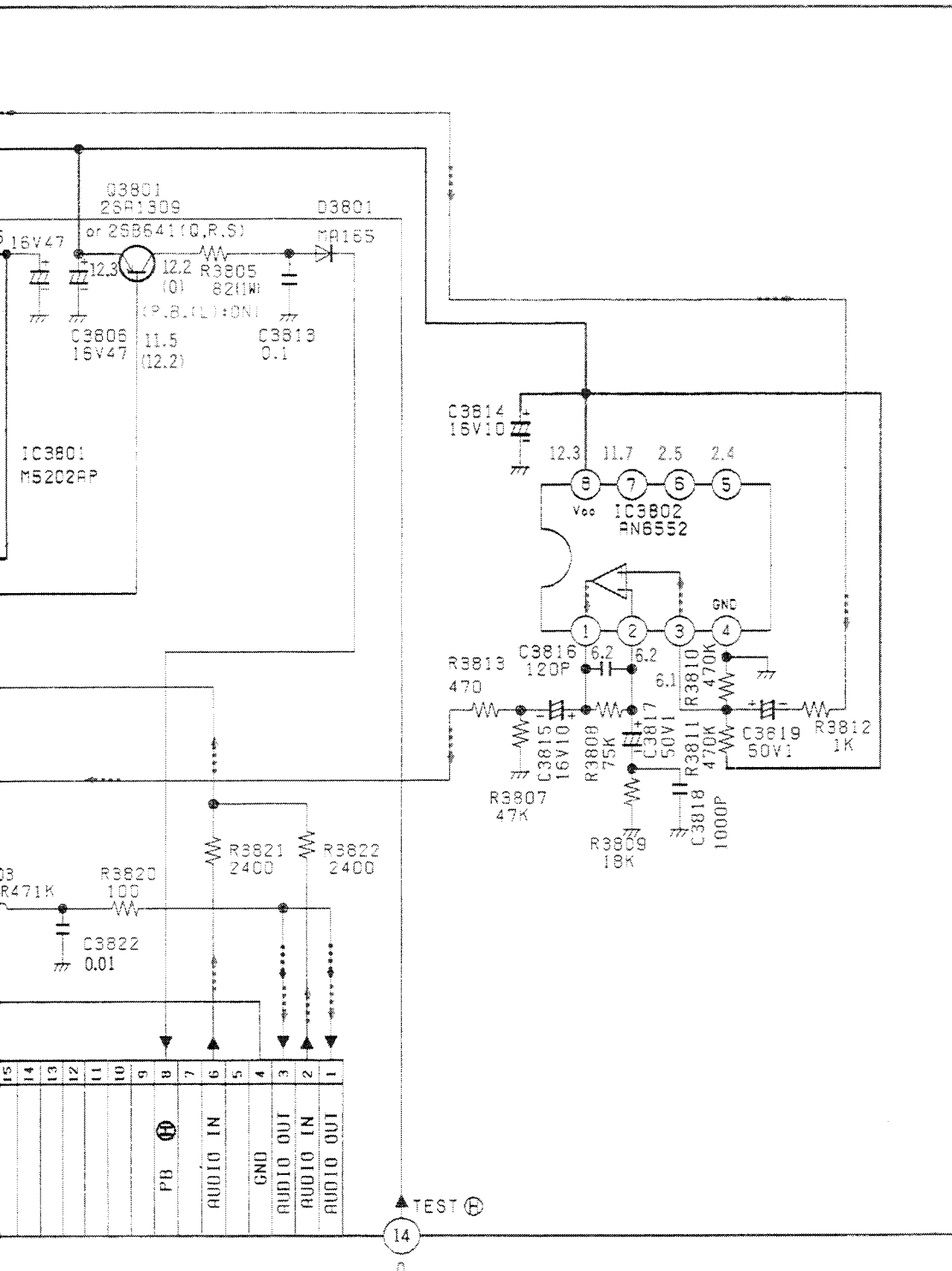
5

6

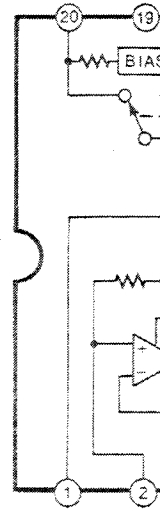
3-22. INPUT/

IC BLOCK

- ← ■ ■ ■ ■ AUDIO MAIN SIGNAL PATH IN REC MODE
- ← ■ ■ ■ ■ AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.



C
B
A

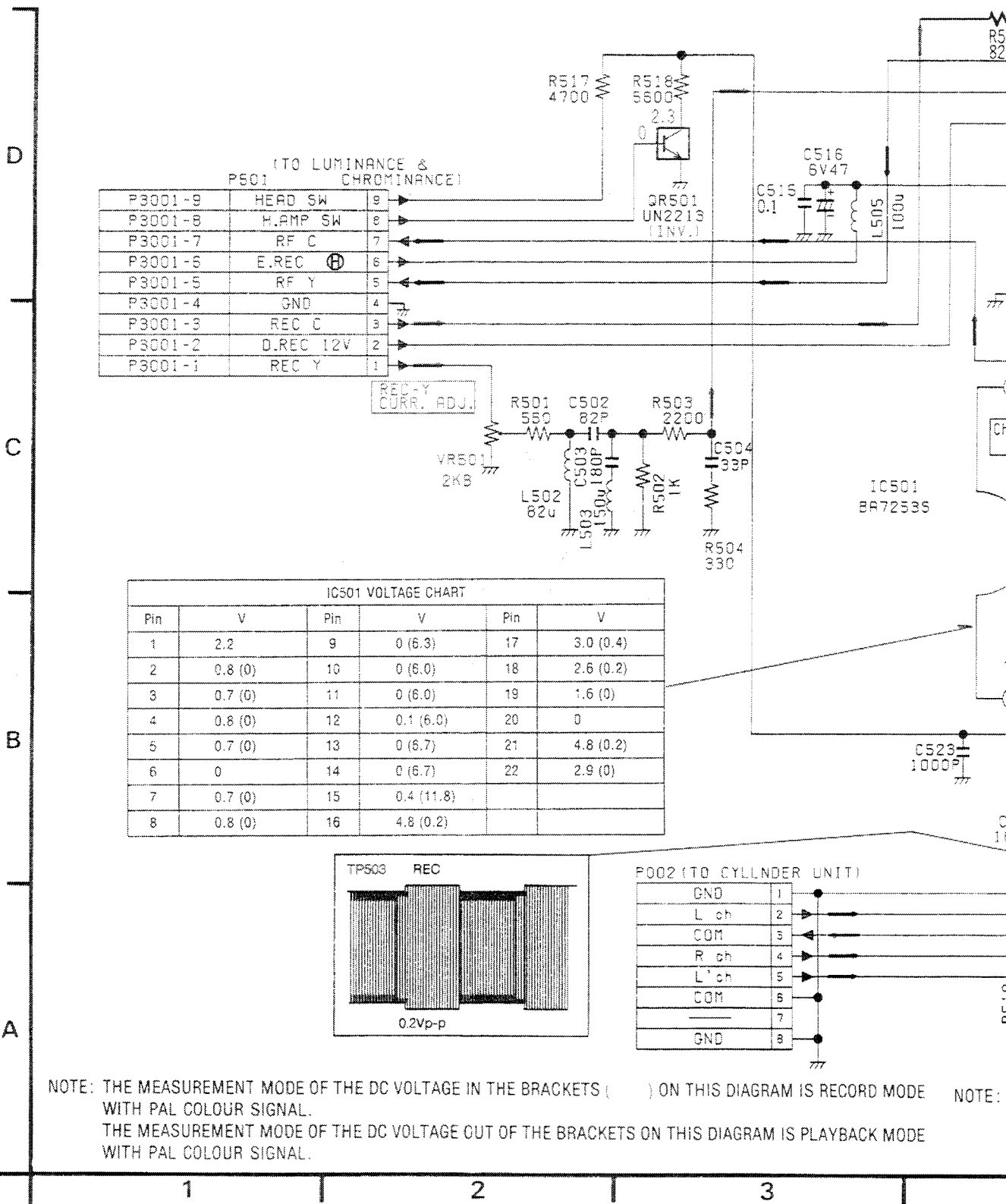
5

6

7

3-23. HEAD AMP SCHEMATIC DIAGRAM (NV-G40EG/B/A/EA)

← MAIN SIGNAL PATH IN REC MODE →



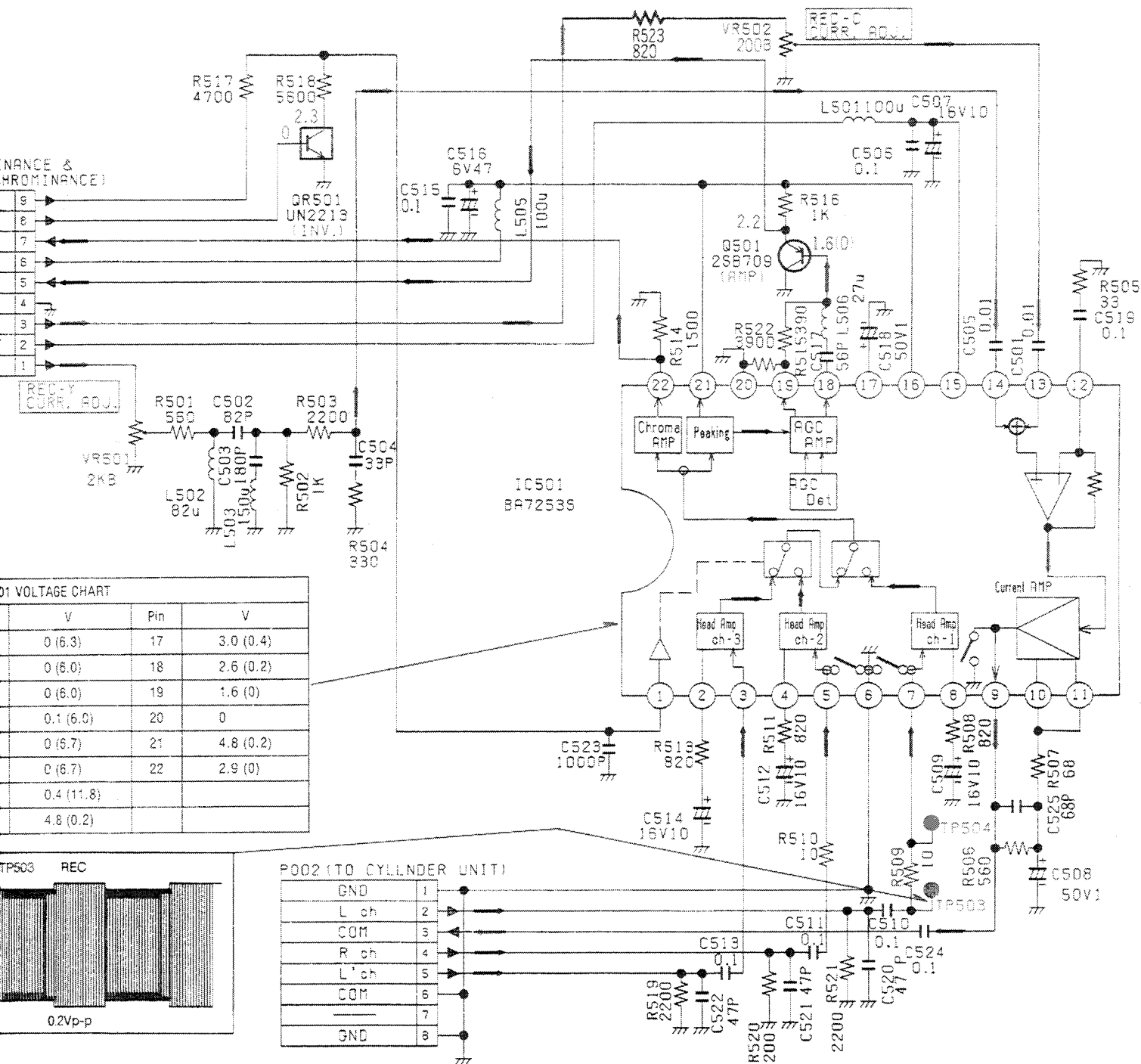
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS () ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.
 THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

SCHEMATIC DIAGRAM (NV-G40EG/B/A/EA)

MAIN SIGNAL PATH IN REC MODE

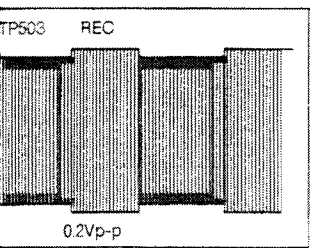


MAIN SIGNAL PATH IN PLAYBACK MODE



DC VOLTAGE CHART

V	Pin	V
0 (6.3)	17	3.0 (0.4)
0 (6.0)	18	2.6 (0.2)
0 (6.0)	19	1.6 (0)
0.1 (6.0)	20	0
0 (6.7)	21	4.8 (0.2)
0 (6.7)	22	2.9 (0)
0.4 (11.8)		
4.8 (0.2)		



PO02 (TO CYLLNDER UNIT)

GND	1
L ch	2
COM	3
R ch	4
L' ch	5
COM	6
	7
GND	8

THE DC VOLTAGE IN THE BRACKETS () ON THIS DIAGRAM IS RECORD MODE
 THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING
 THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE
 SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED

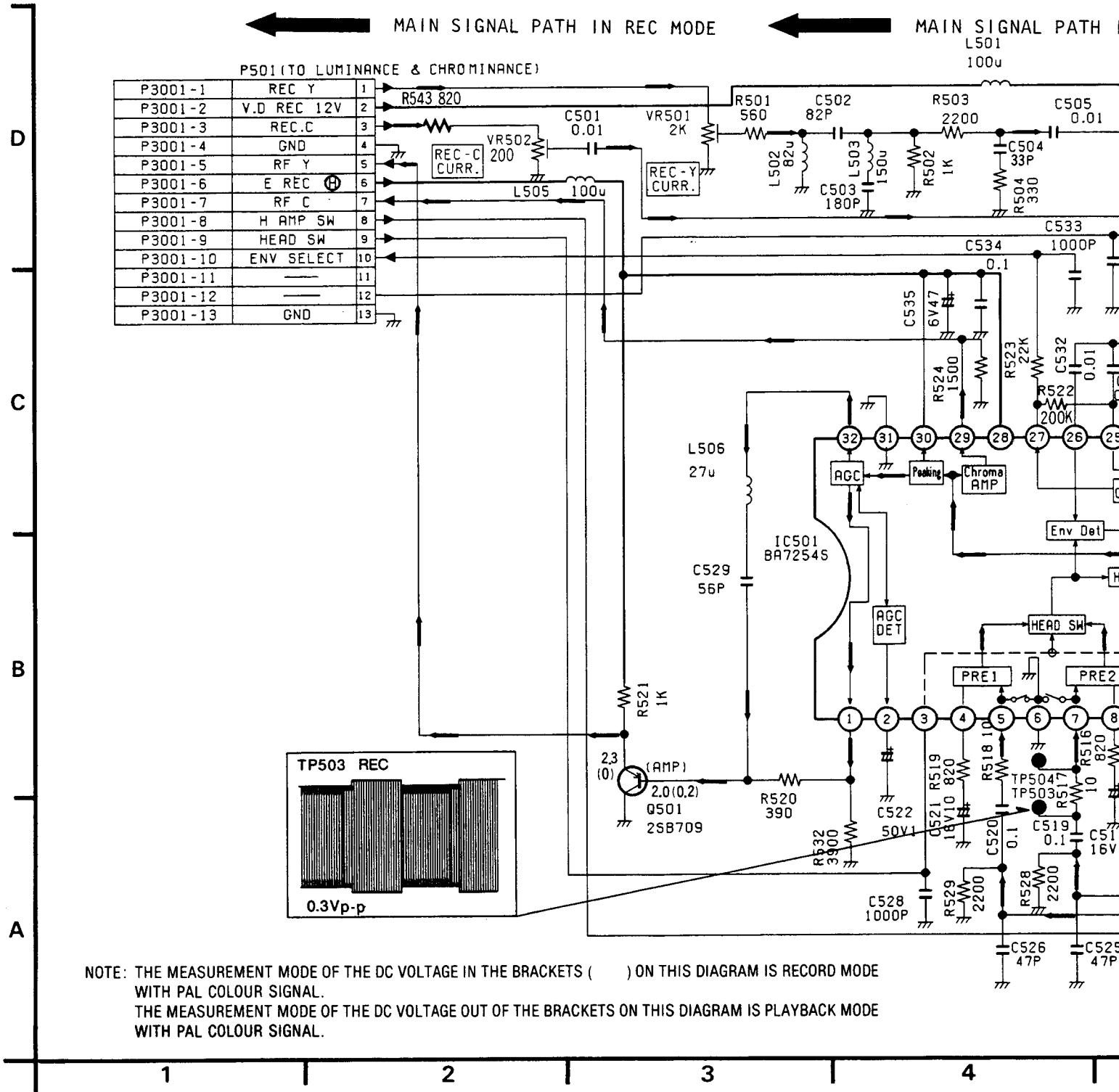
2

3

4

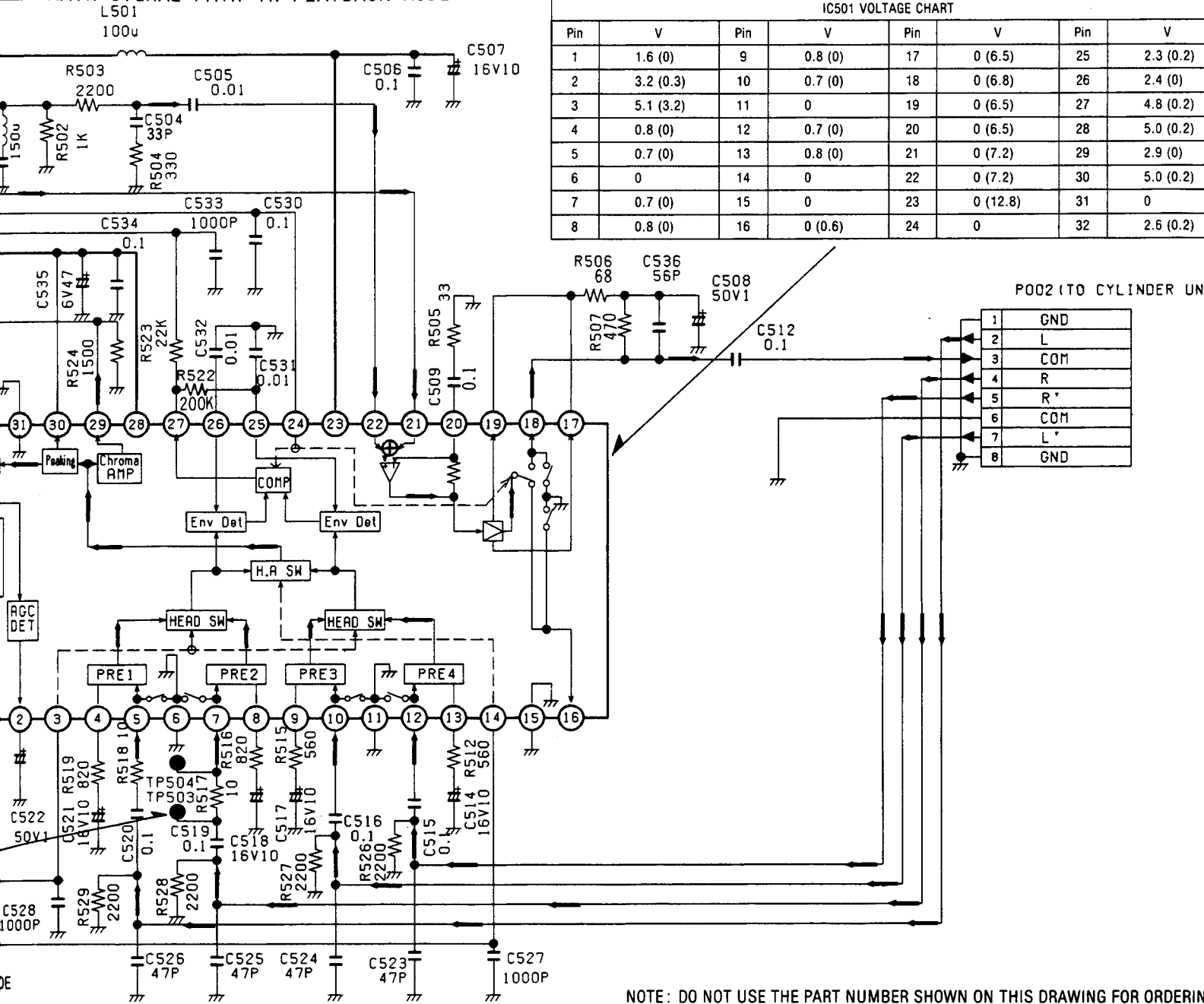
5

3-25. HEAD AMP SCHEMATIC DIAGRAM (NV-G45A/EA)



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

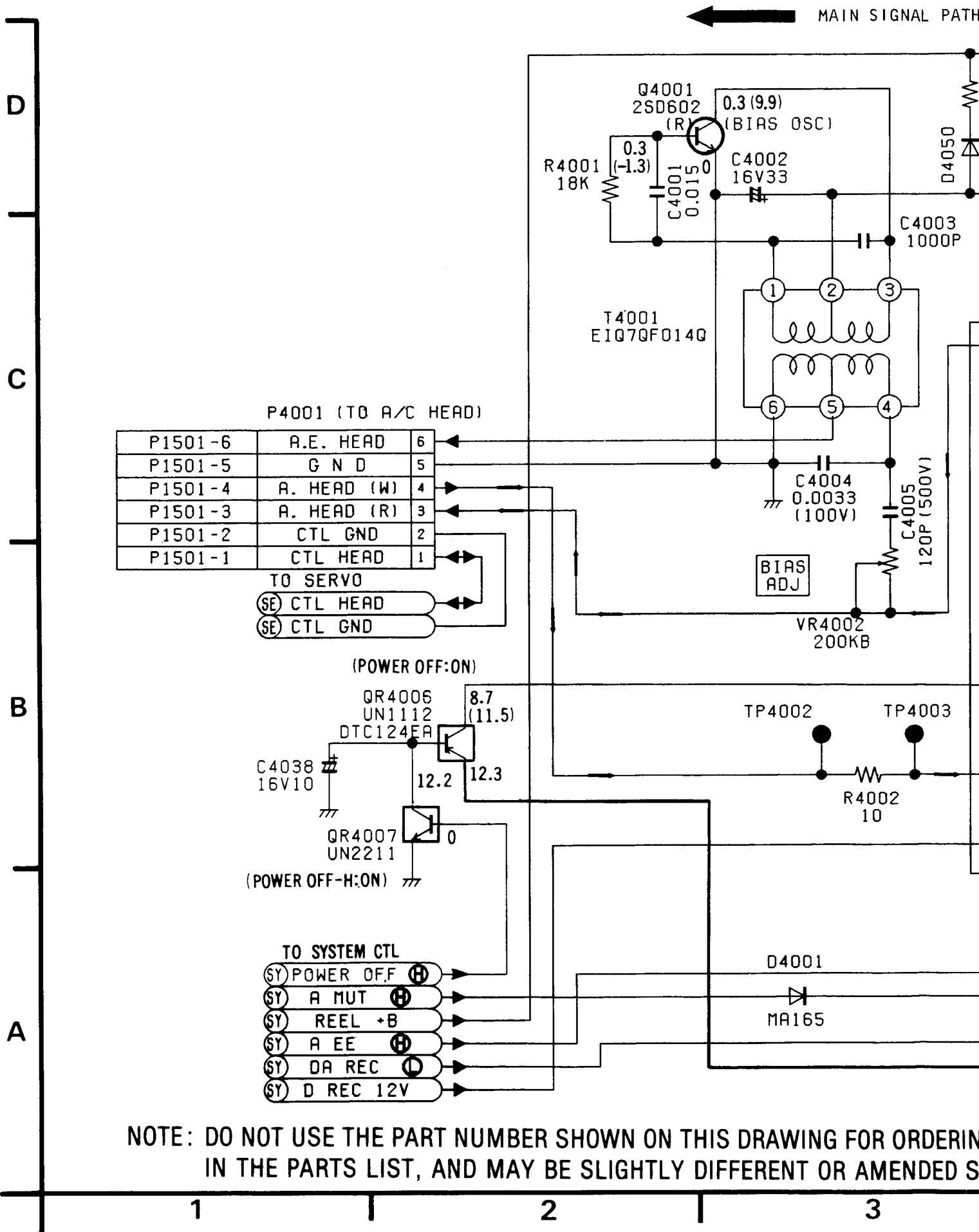
MAIN SIGNAL PATH IN PLAYBACK MODE



NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

4 | 5 | 6 | 7 | 8

3-28. AUDIO SCHEMATIC DIAGRAM



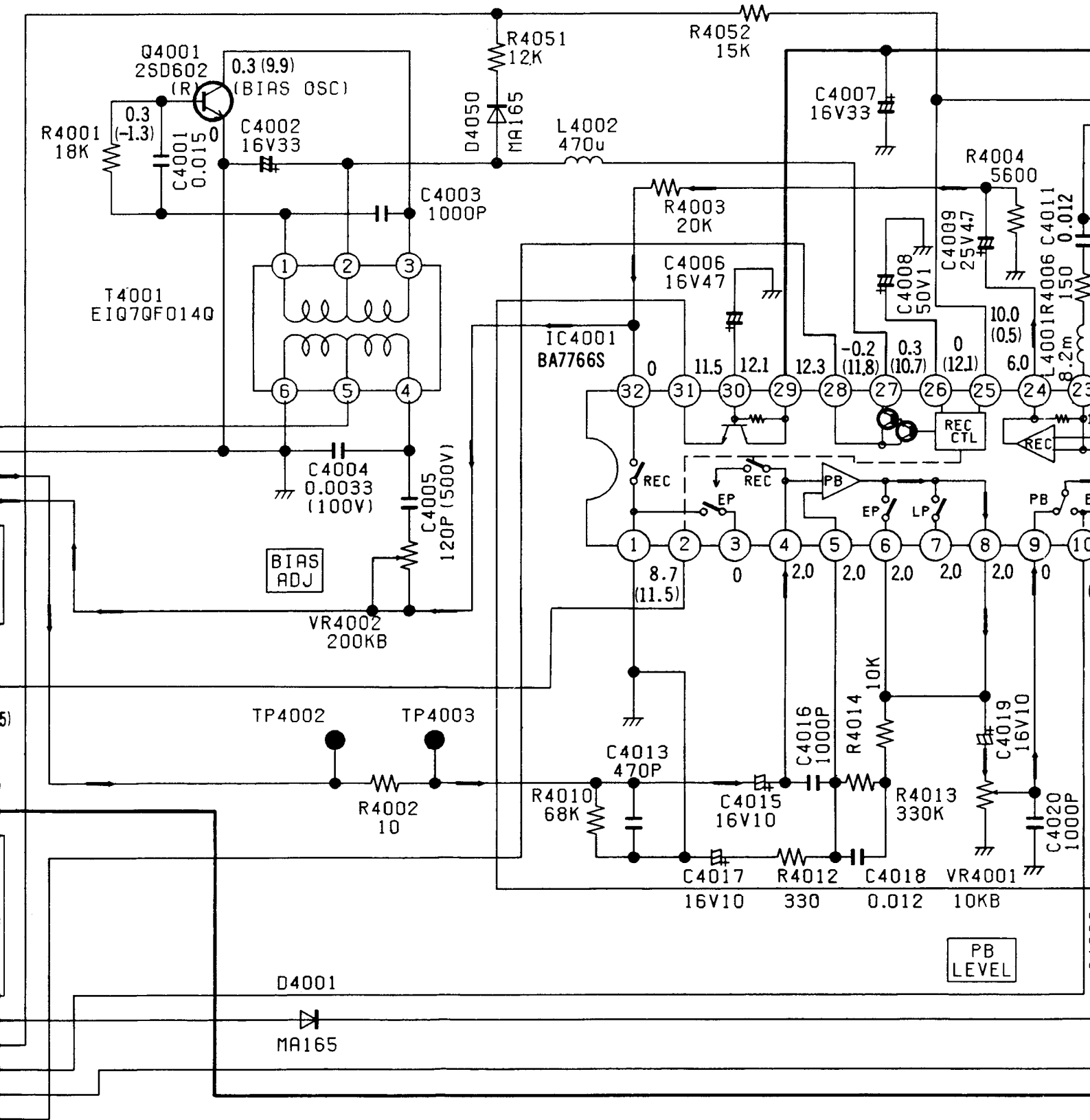
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED



MAIN SIGNAL PATH IN REC MODE



MAIN SIGNAL PATH IN PLAY

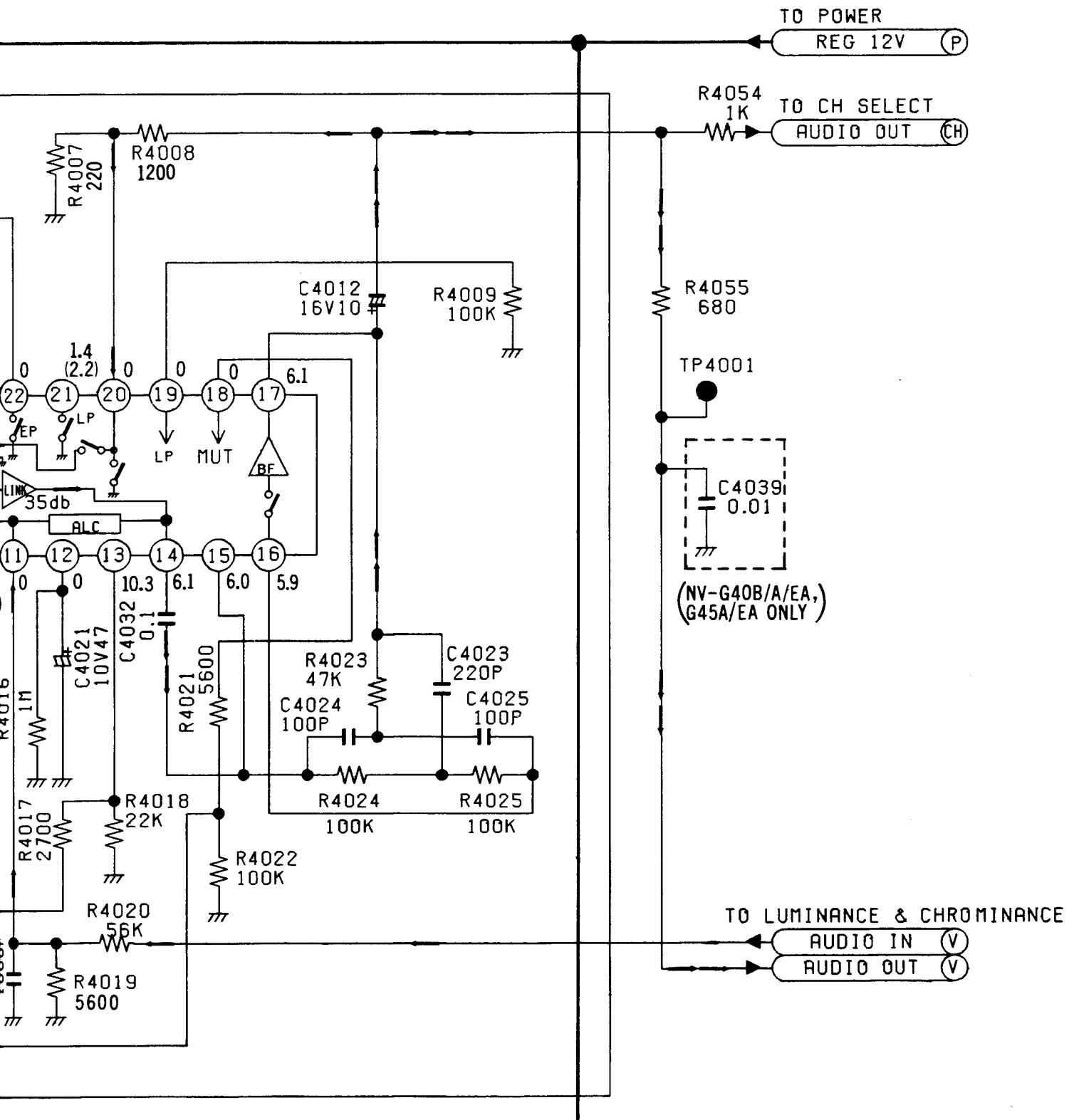


NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN. THIS DRAWING MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

2

3

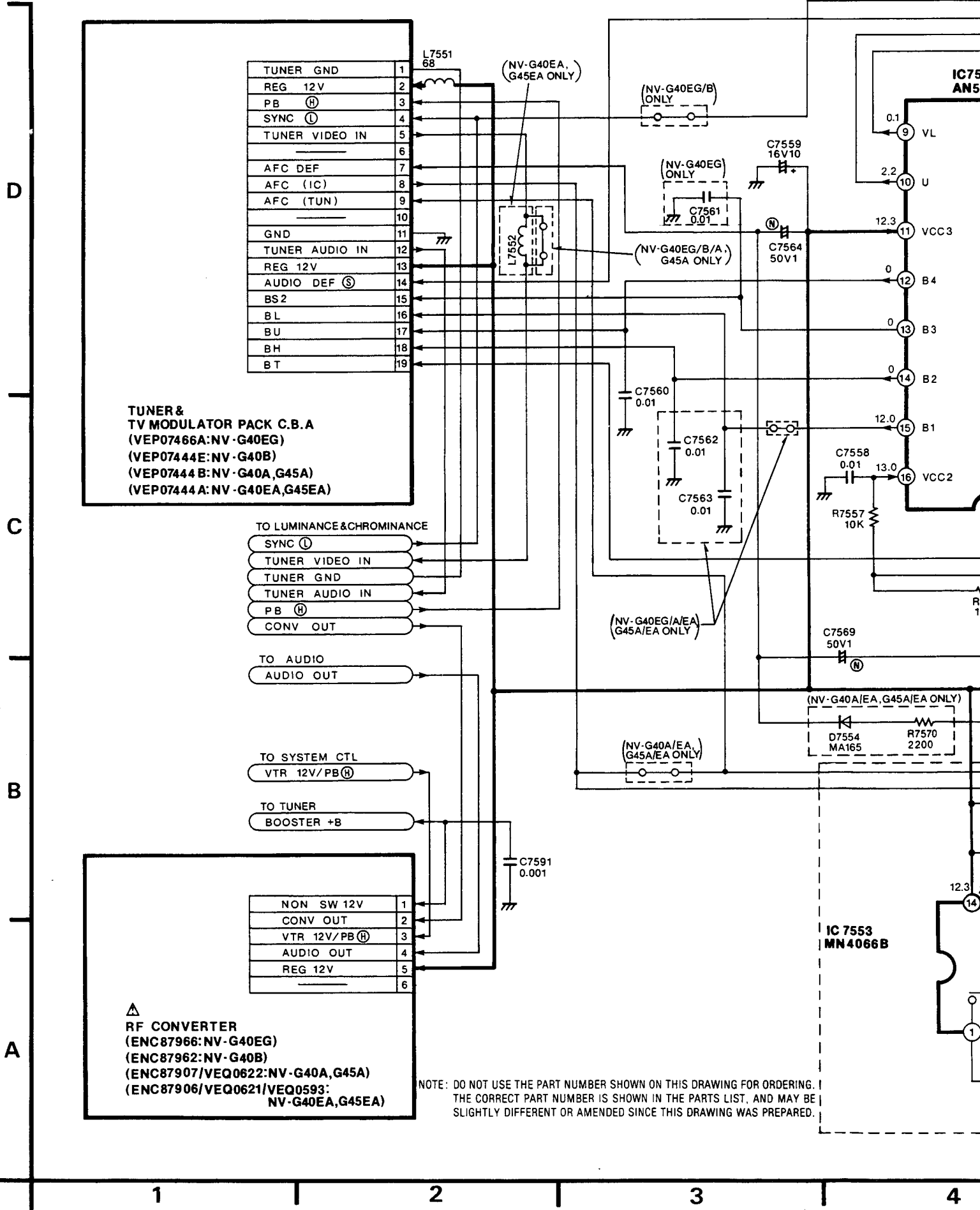
4



NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGES ARE FOLLOWING CONDITION.

- LINE IN SIGNAL LEVEL... - 10dB 1kHz
- MEASUREMENT MODE
REC...BRACKETS ()
PLAY...WITHOUT BRACKETS

3-29. CH SELECT SCHEMATIC DIAGRAM



40EA,
A ONLY)

(NV-G40EG/B
ONLY)

(NV-G40EG
ONLY)
C7561
0.01

(NV-G40EG/B/A,
G45A ONLY)

C7560
0.01

C7562
0.01

C7563
0.01

(NV-G40EG/A/EA
G45A/EA ONLY)

(NV-G40A/EA,
G45A/EA ONLY)

(NV-G40A/EA, G45A/EA ONLY)

D7554
MA165

R7570
2200

(NV-G40EG/B ONLY)

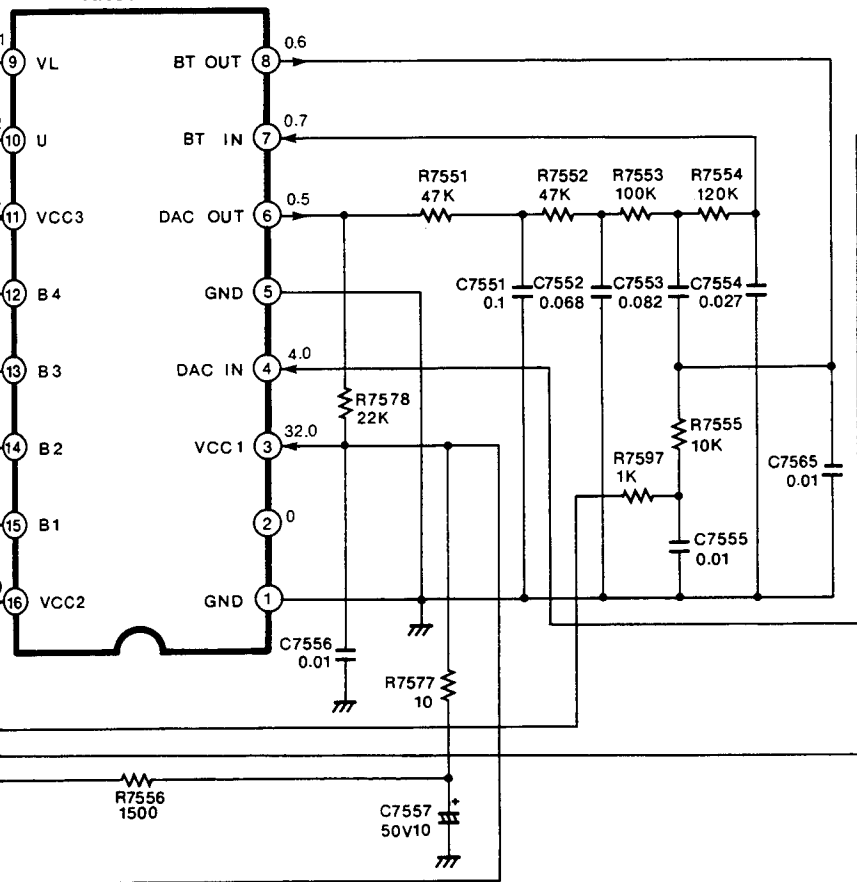
IC 7553
MN4066B

IC 7551
AN5043

QR7554
UN2213

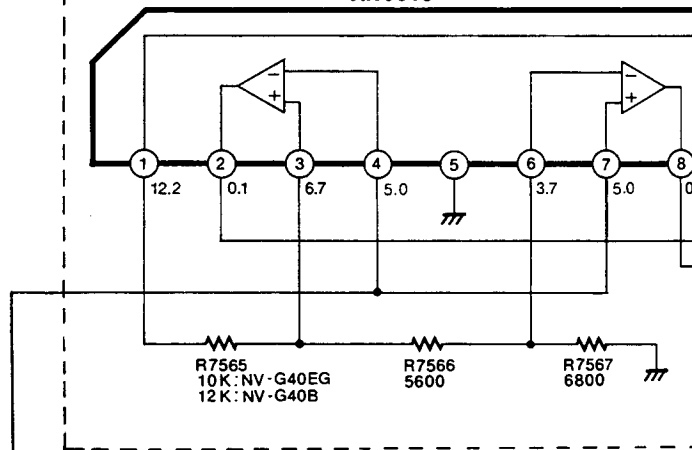
PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE
DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

**IC7551
AN5043**



(NV-G40EG/B ONLY)

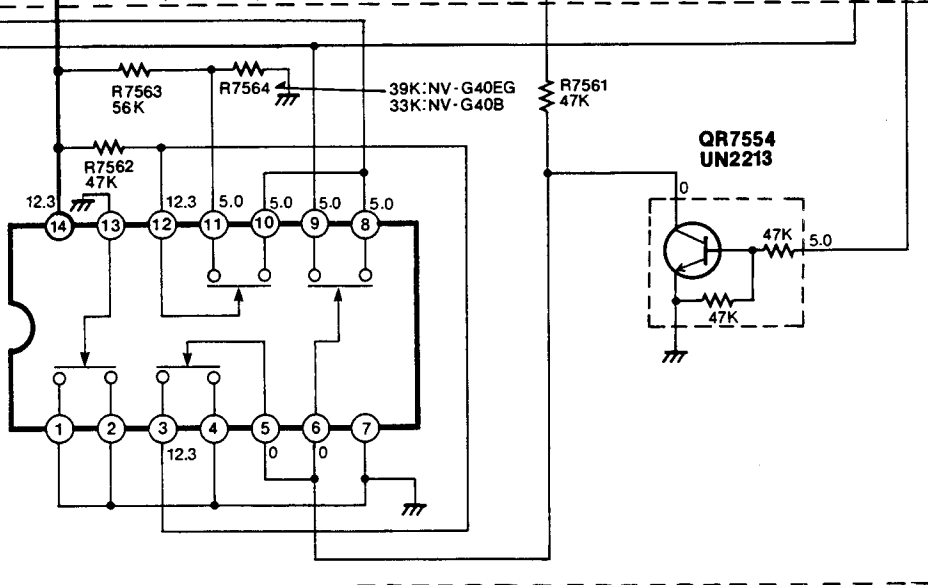
**IC 7552
AN6913**



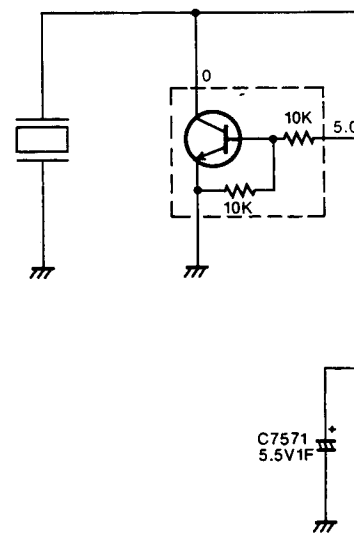
(5A/JEA ONLY)



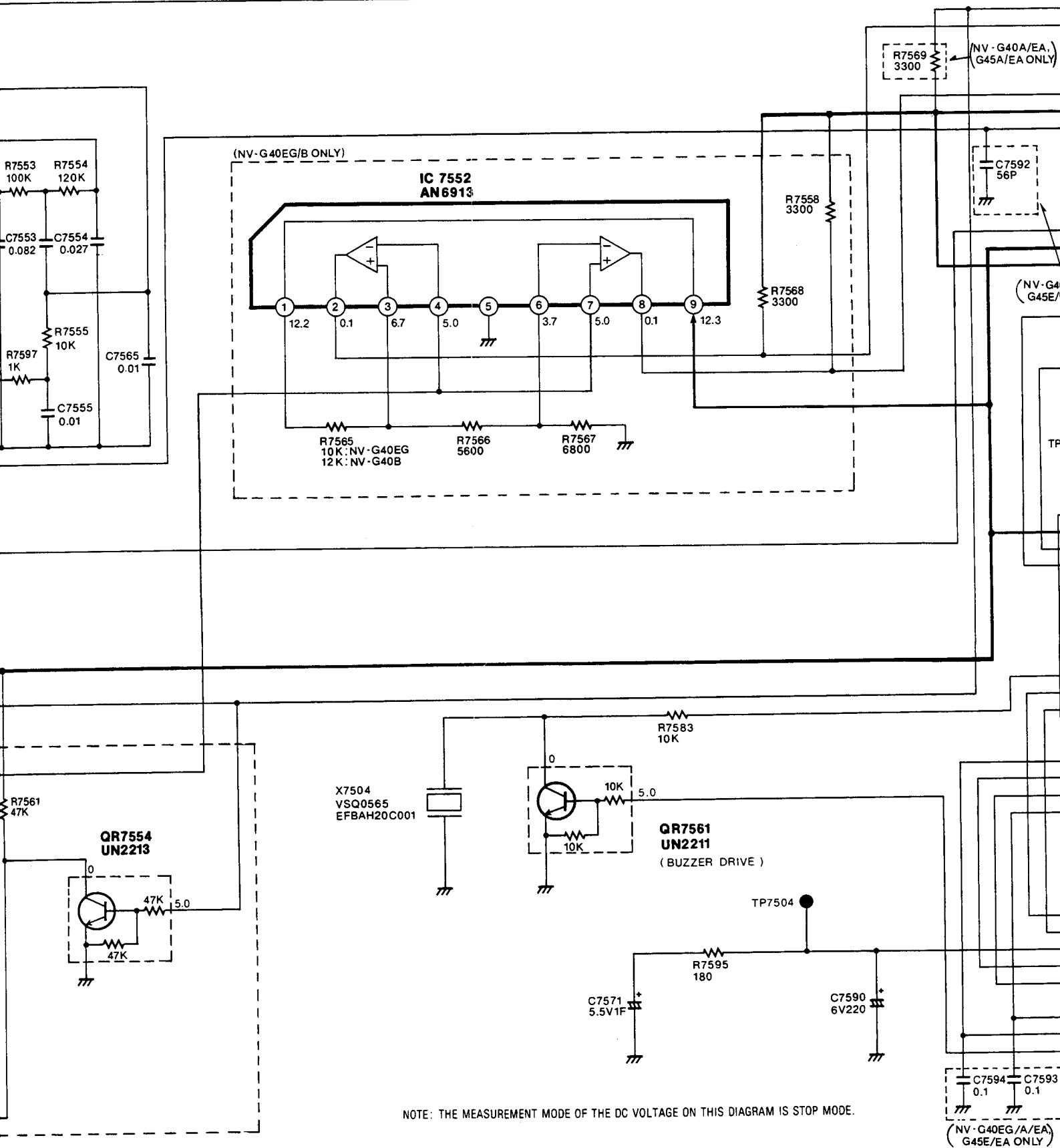
(NV-G40EG/B ONLY)



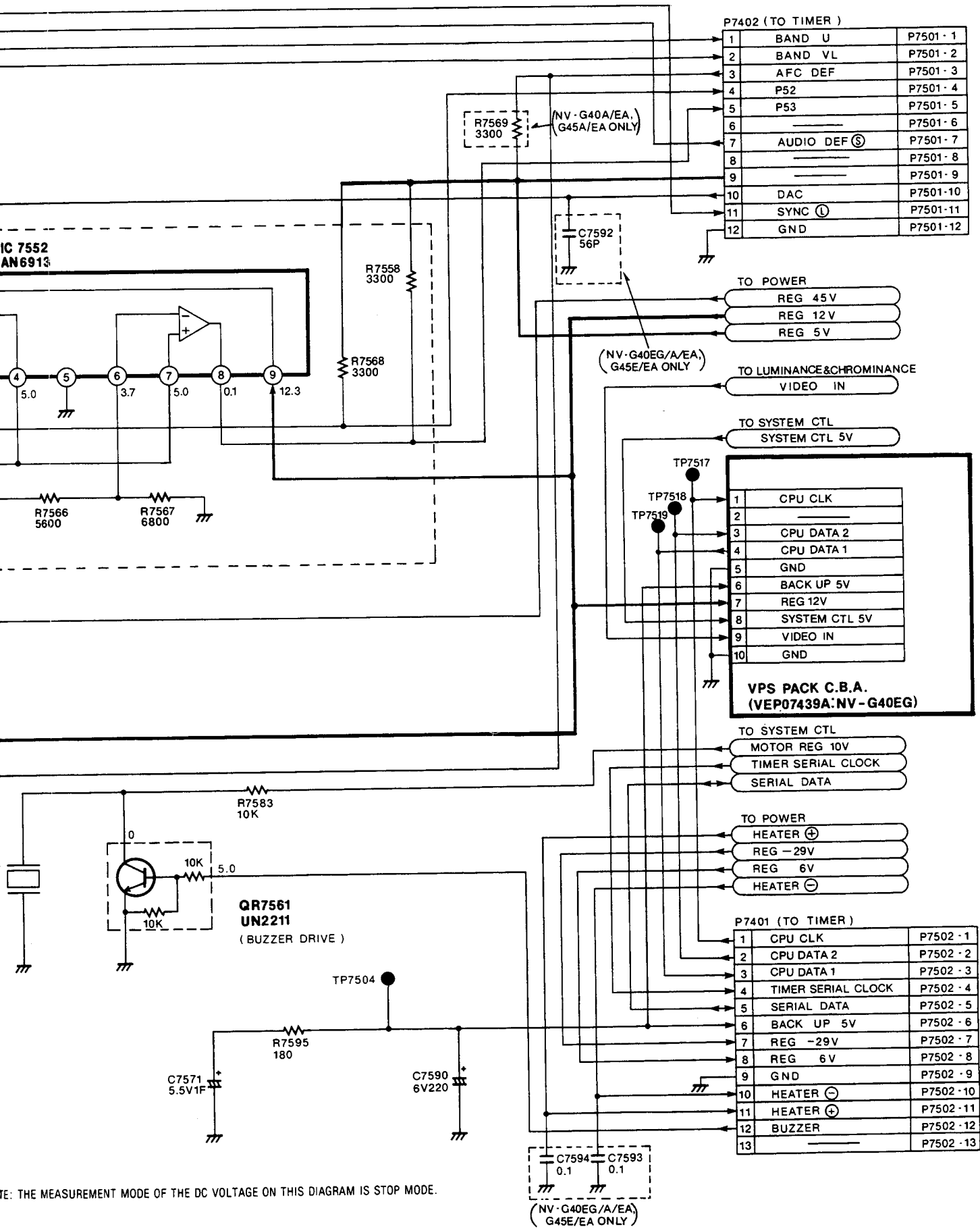
X7504
VSQ0565
EFBAH20C001



NOTE: THE MEASUREMENT MODE OF THE DC VOL



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



P7402 (TO TIMER)		
1	BAND U	P7501-1
2	BAND VL	P7501-2
3	AFC DEF	P7501-3
4	P52	P7501-4
5	P53	P7501-5
6		P7501-6
7	AUDIO DEF	P7501-7
8		P7501-8
9		P7501-9
10	DAC	P7501-10
11	SYNC	P7501-11
12	GND	P7501-12

VPS PACK C.B.A. (VEP07439A:NV-G40EG)		
1	CPU CLK	
2		
3	CPU DATA 2	
4	CPU DATA 1	
5	GND	
6	BACK UP 5V	
7	REG 12V	
8	SYSTEM CTL 5V	
9	VIDEO IN	
10	GND	

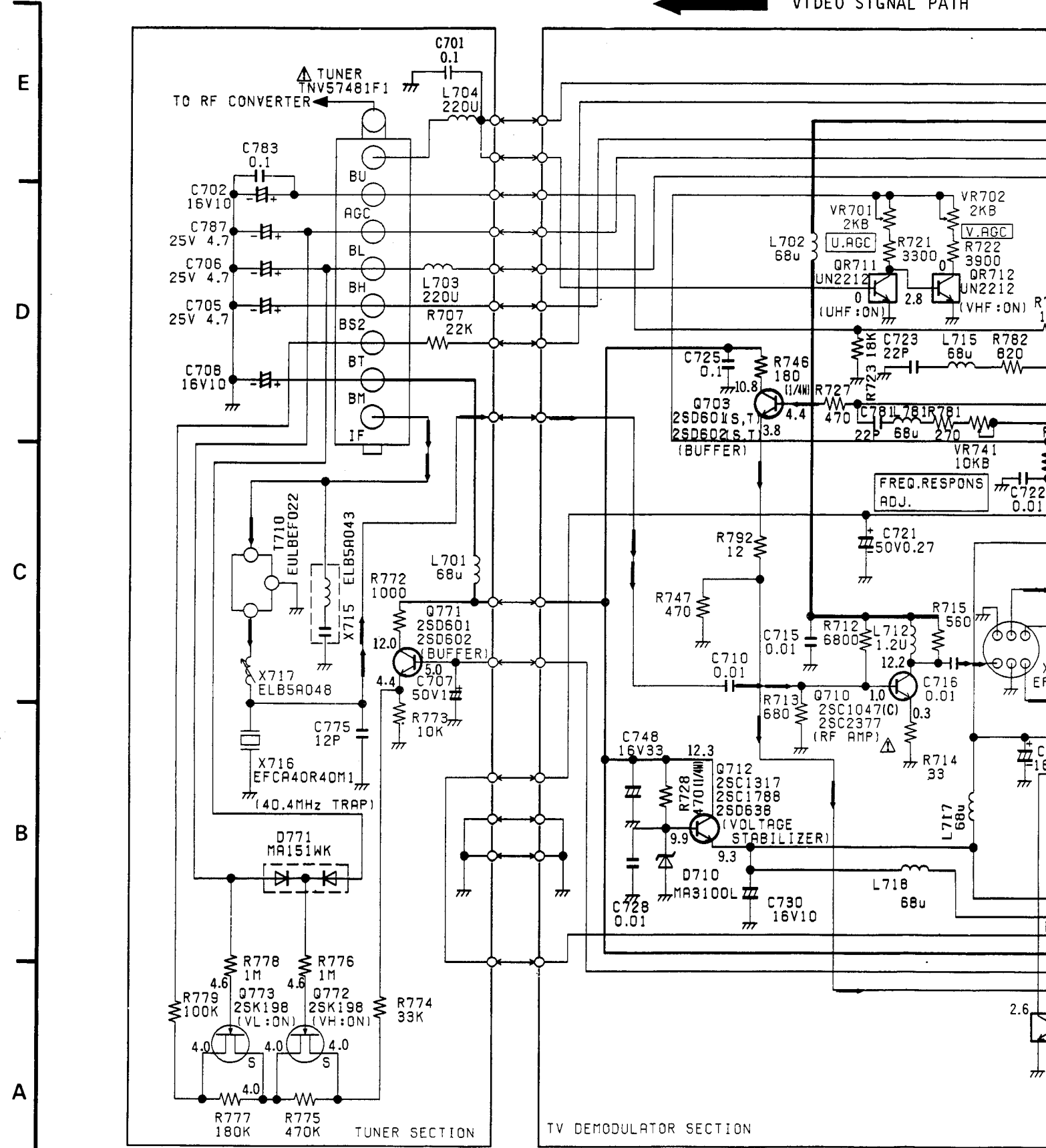
P7401 (TO TIMER)		
1	CPU CLK	P7502-1
2	CPU DATA 2	P7502-2
3	CPU DATA 1	P7502-3
4	TIMER SERIAL CLOCK	P7502-4
5	SERIAL DATA	P7502-5
6	BACK UP 5V	P7502-6
7	REG -29V	P7502-7
8	REG 6V	P7502-8
9	GND	P7502-9
10	HEATER	P7502-10
11	HEATER	P7502-11
12	BUZZER	P7502-12
13		P7502-13

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

(NV-G40EG/A/EA)
G45E/EA ONLY

3-32. TUNER & TV DEMODULATOR PACK SCHEMATIC DIAGRAM (NV-G40EG)

← VIDEO SIGNAL PATH

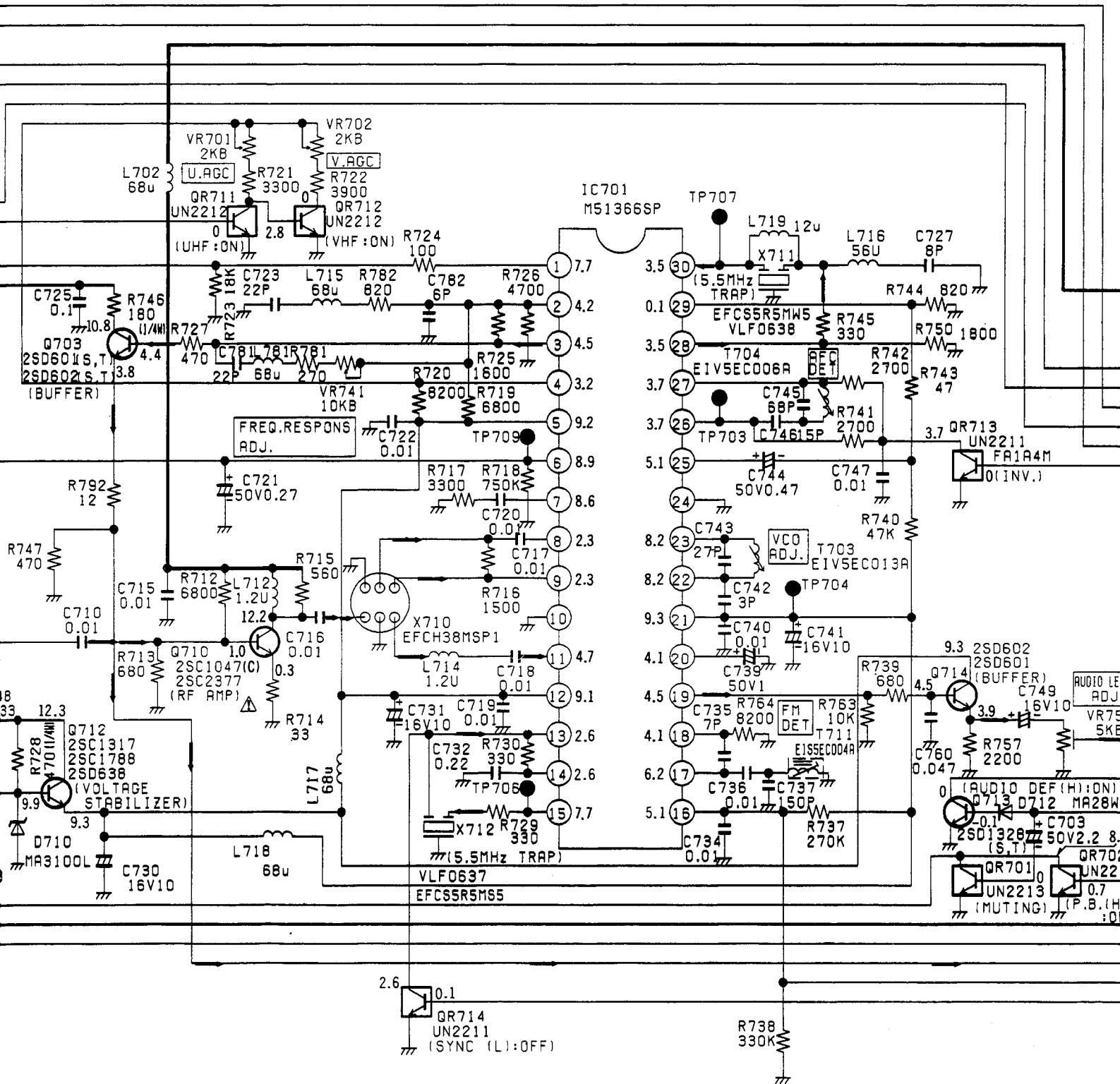


NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

SCHEMATIC DIAGRAM (NV-G40EG)

VIDEO SIGNAL PATH

AUDIO SIGNAL PATH



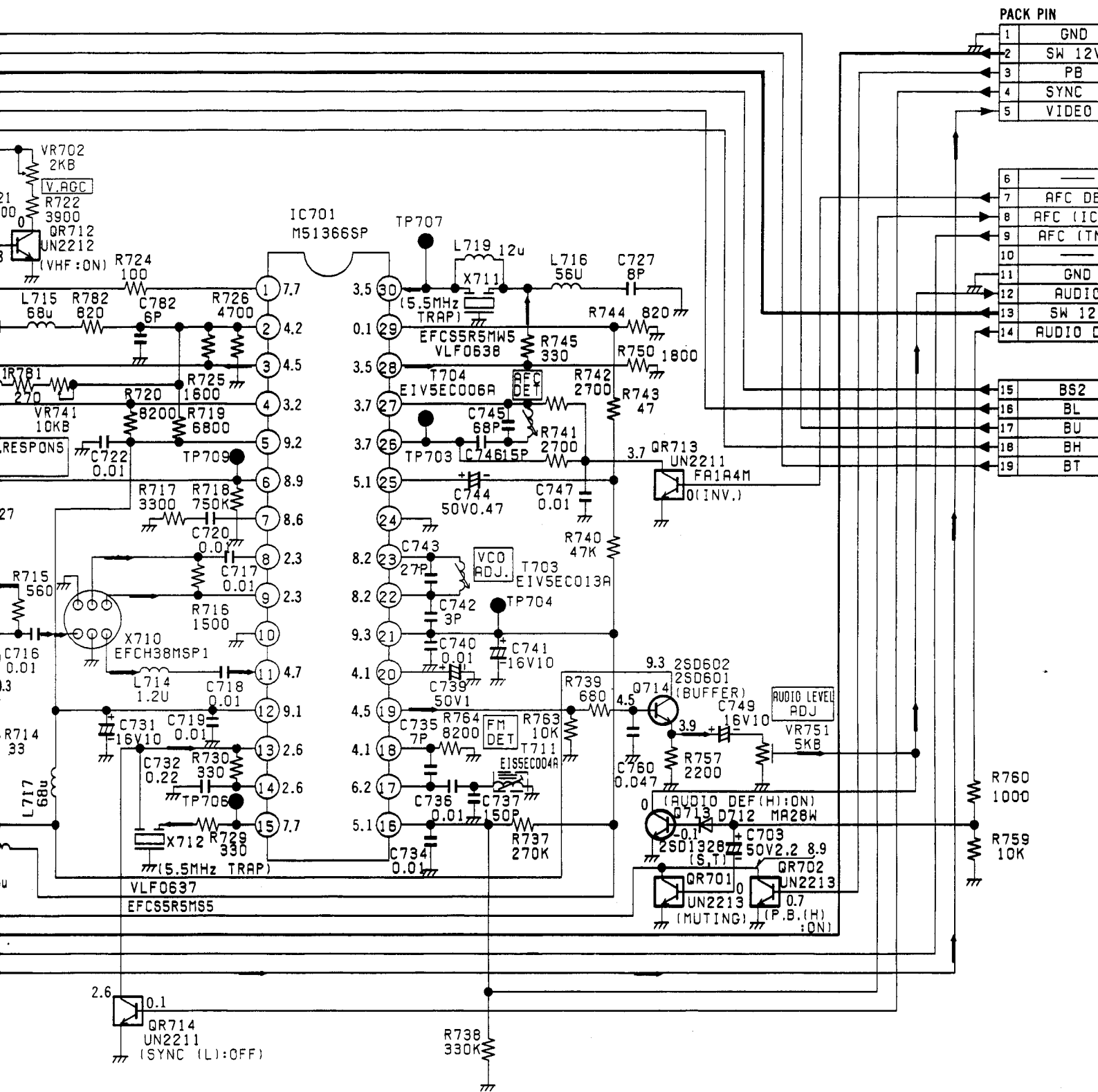
RECEIVER SECTION

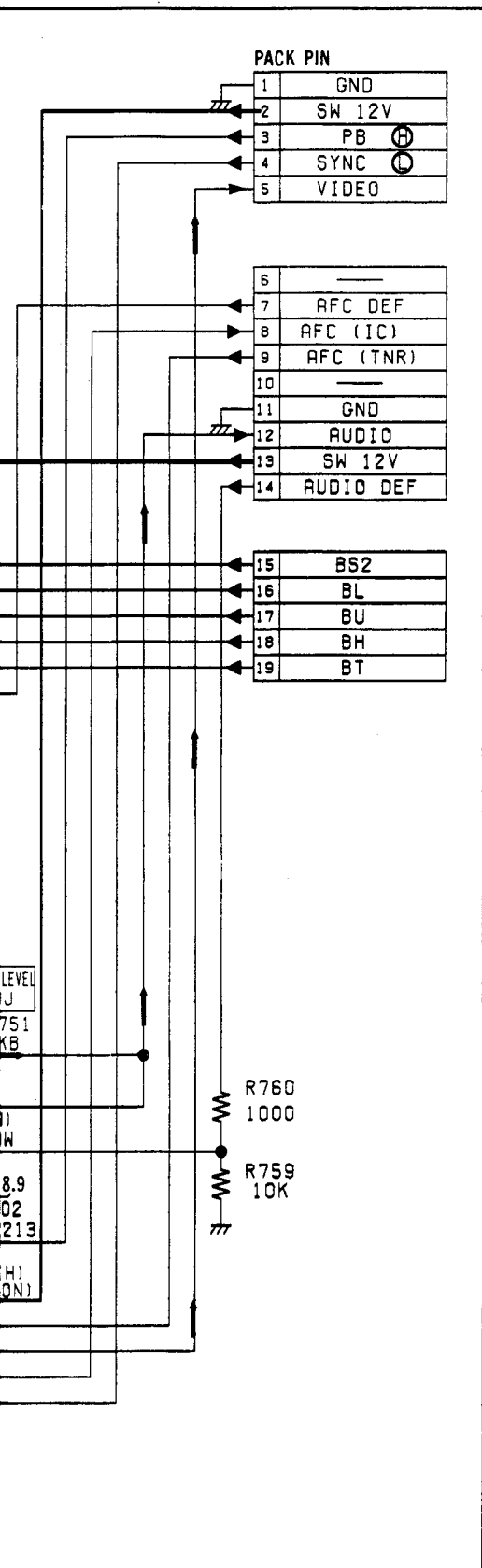
THE CORRECT PART NUMBER IS SHOWN IN THIS DRAWING WAS PREPARED.

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

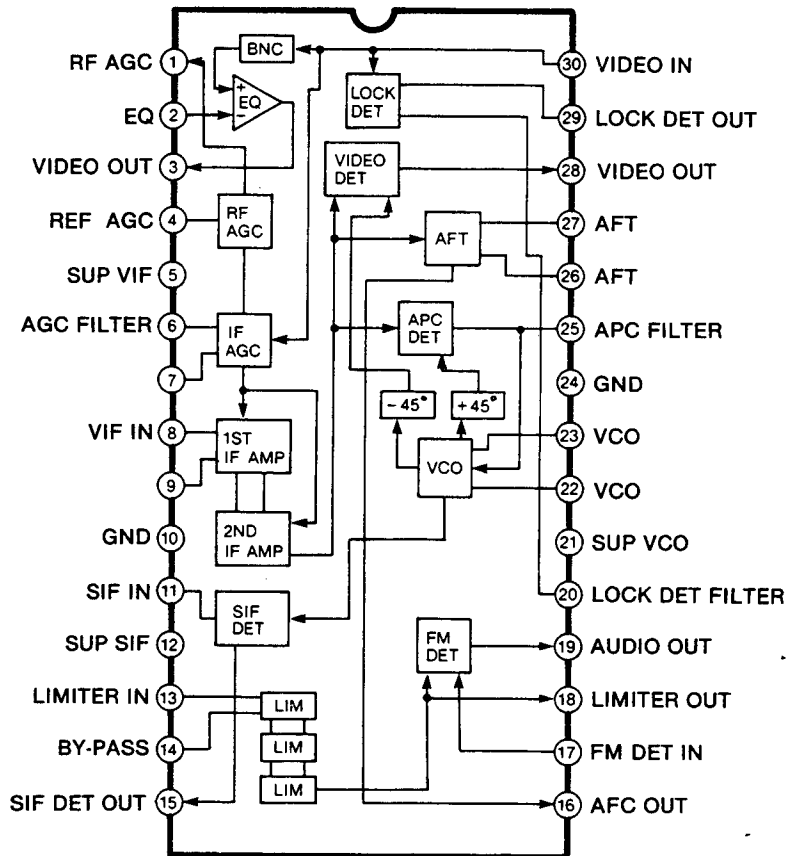
7-G40EG)

PATH ← AUDIO SIGNAL PATH



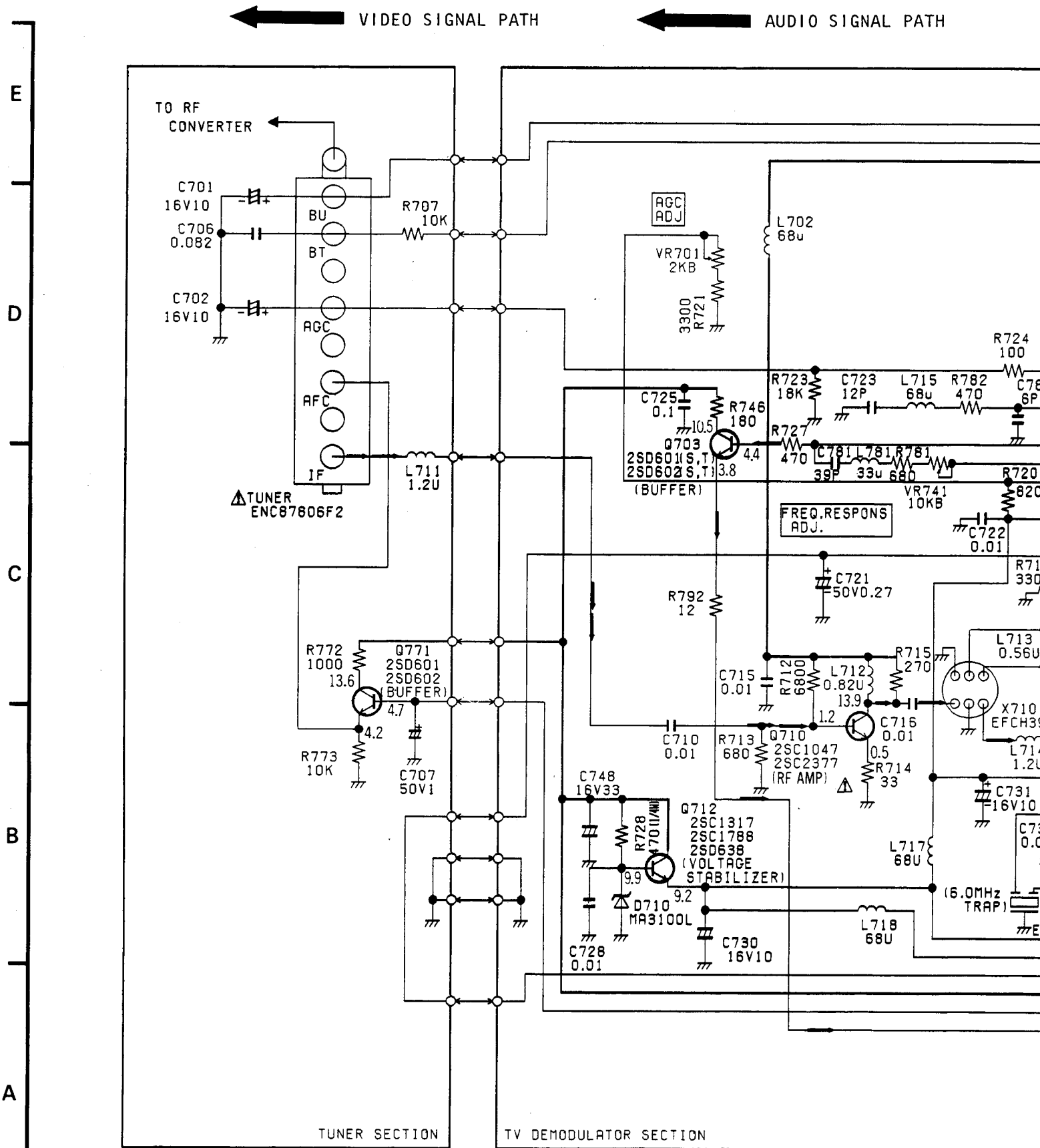


**IC BLOCK
IC701 (M51366SP)**



IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN  HAVE SPECIAL CHARACTERISTICS
IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY
THE SPECIFIED PARTS.

3-33. TUNER & TV DEMODULATOR PACK SCHEMATIC DIAGRAM (NV-G40B)



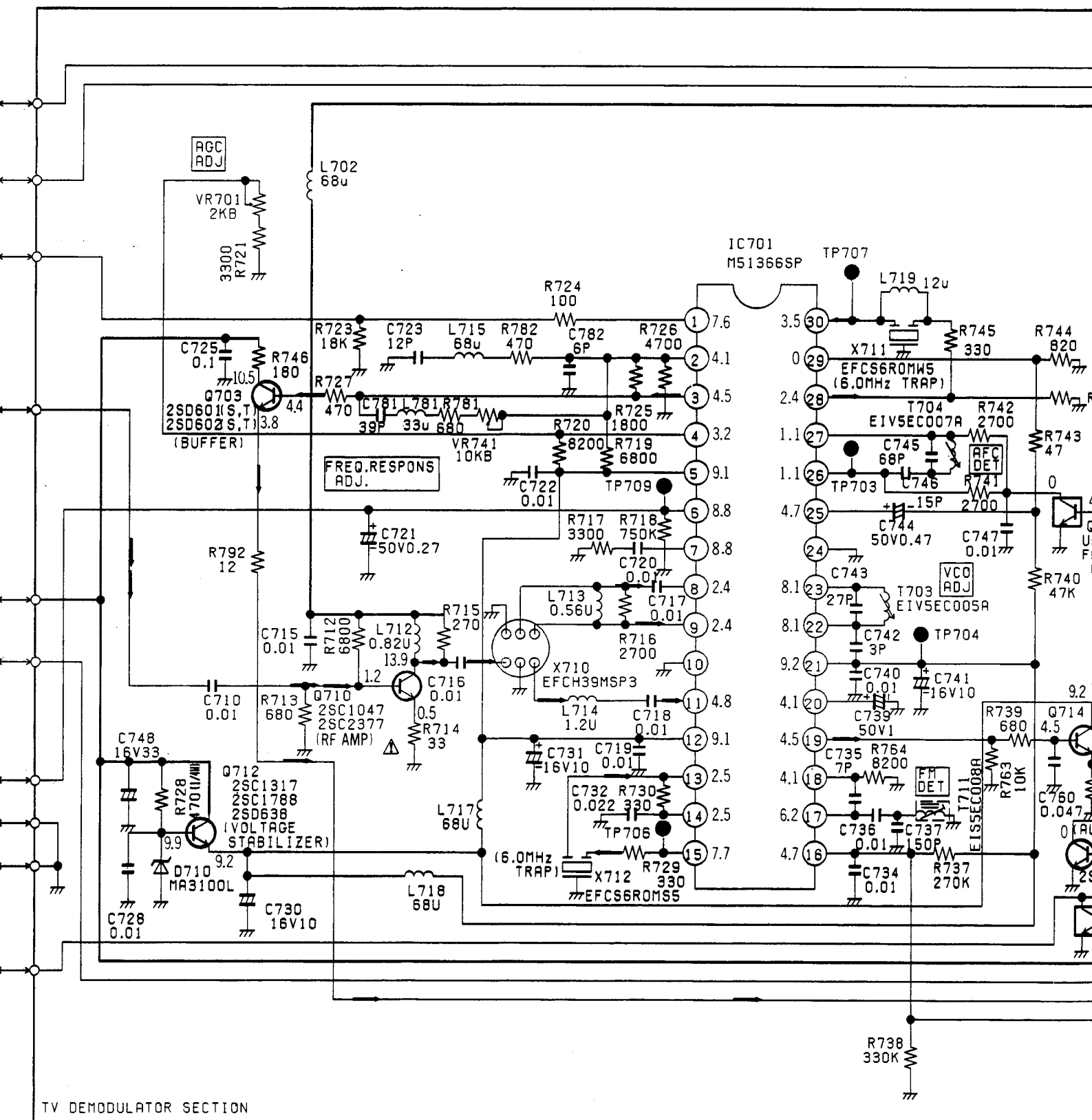
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

1 | 2 | 3 | 4

PACK SCHEMATIC DIAGRAM (NV-G40B)

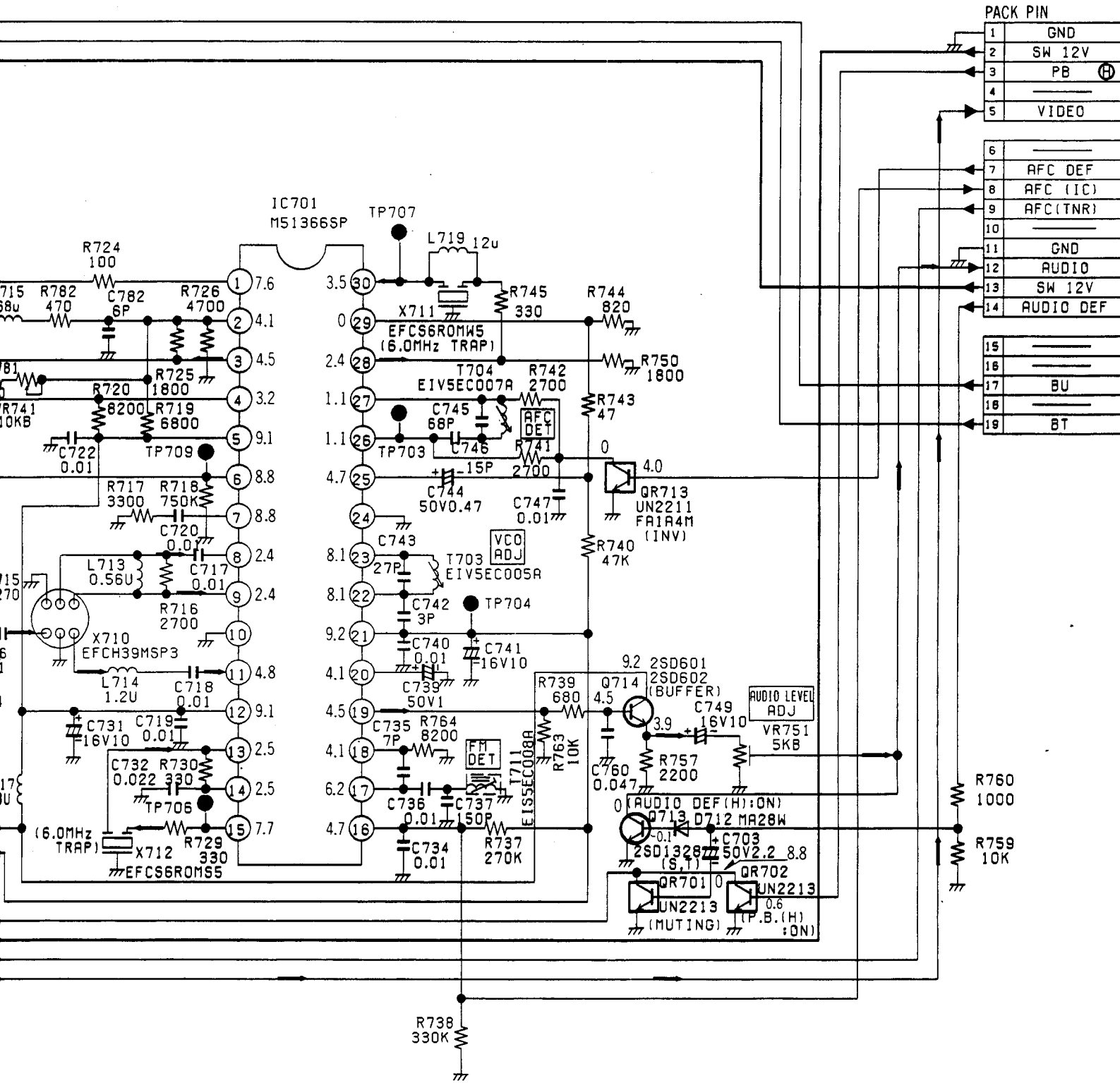
AL PATH

← AUDIO SIGNAL PATH

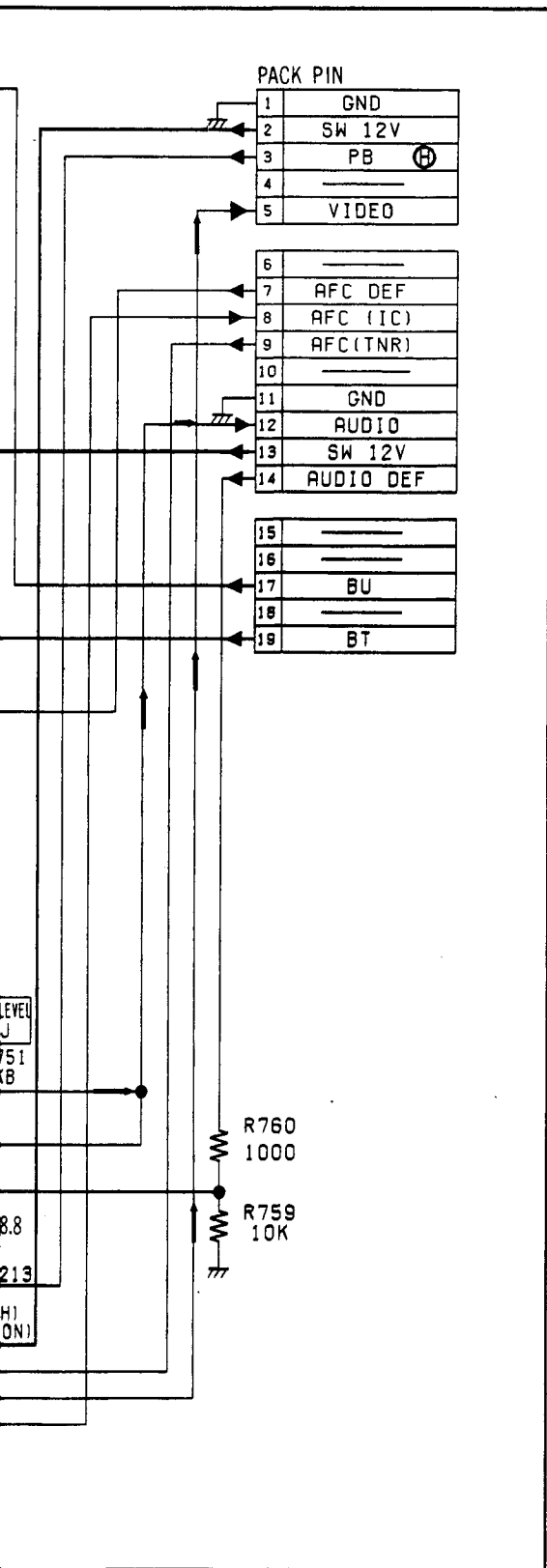


THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN BY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

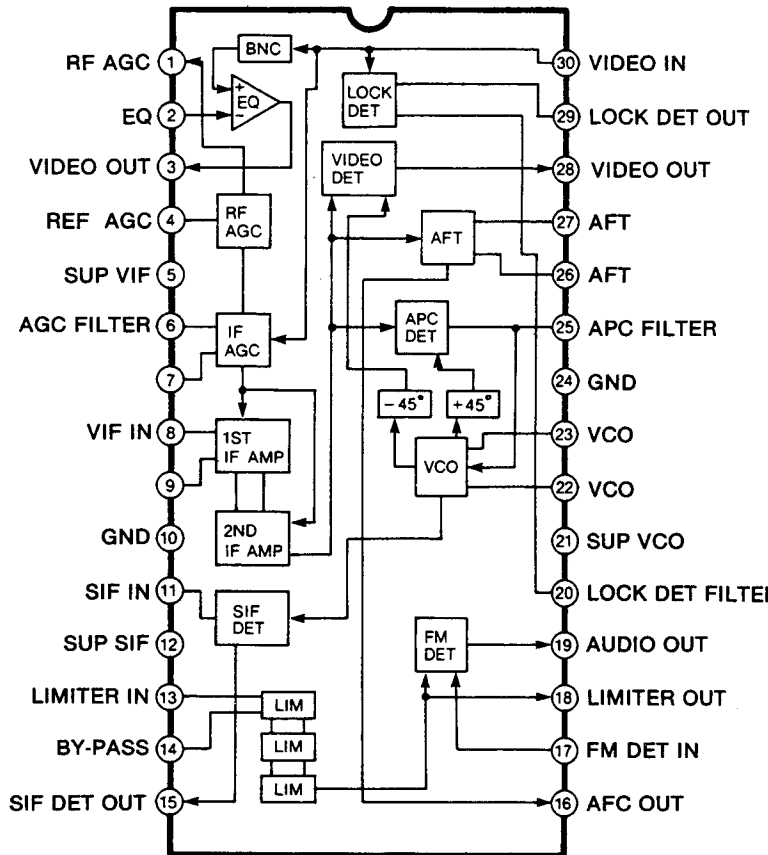
NOTE: THE MEASUREMENT MODE OF THE DC VOLTA



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



**IC BLOCK
IC701 (M51366SP)**



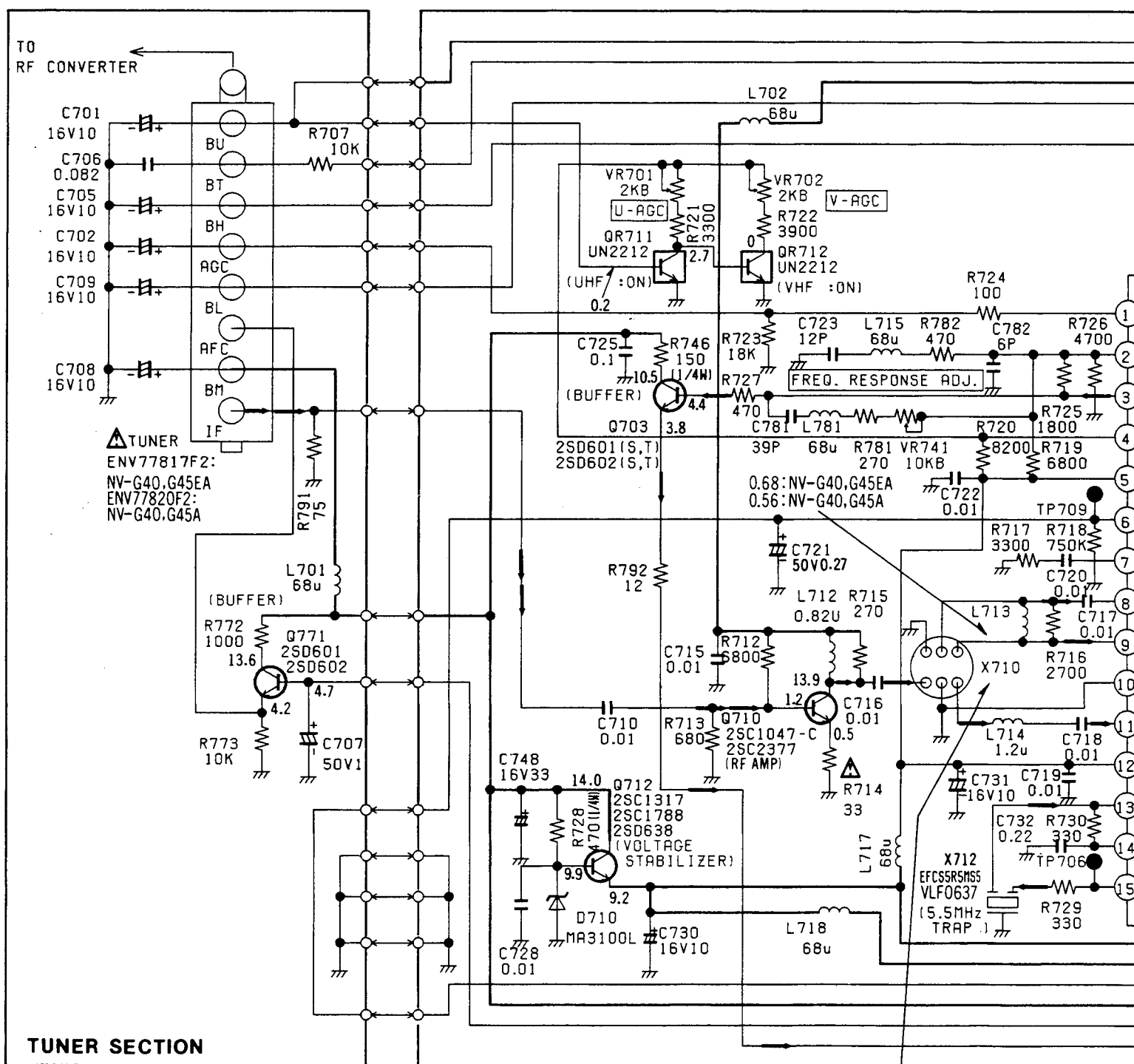
AM IS STOP MODE.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.

TUNER & TV DEMODULATOR PACK SCHEMATIC DIAGRAM (NV-G40A/EA, NV-G40A/GA)

← VIDEO SIGNAL PATH

← AUDIO SIGNAL PATH



NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

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

EFCH38MSP1: NV-G40.G45EA
EFCH36MSP1: NV-G40.G45A

1

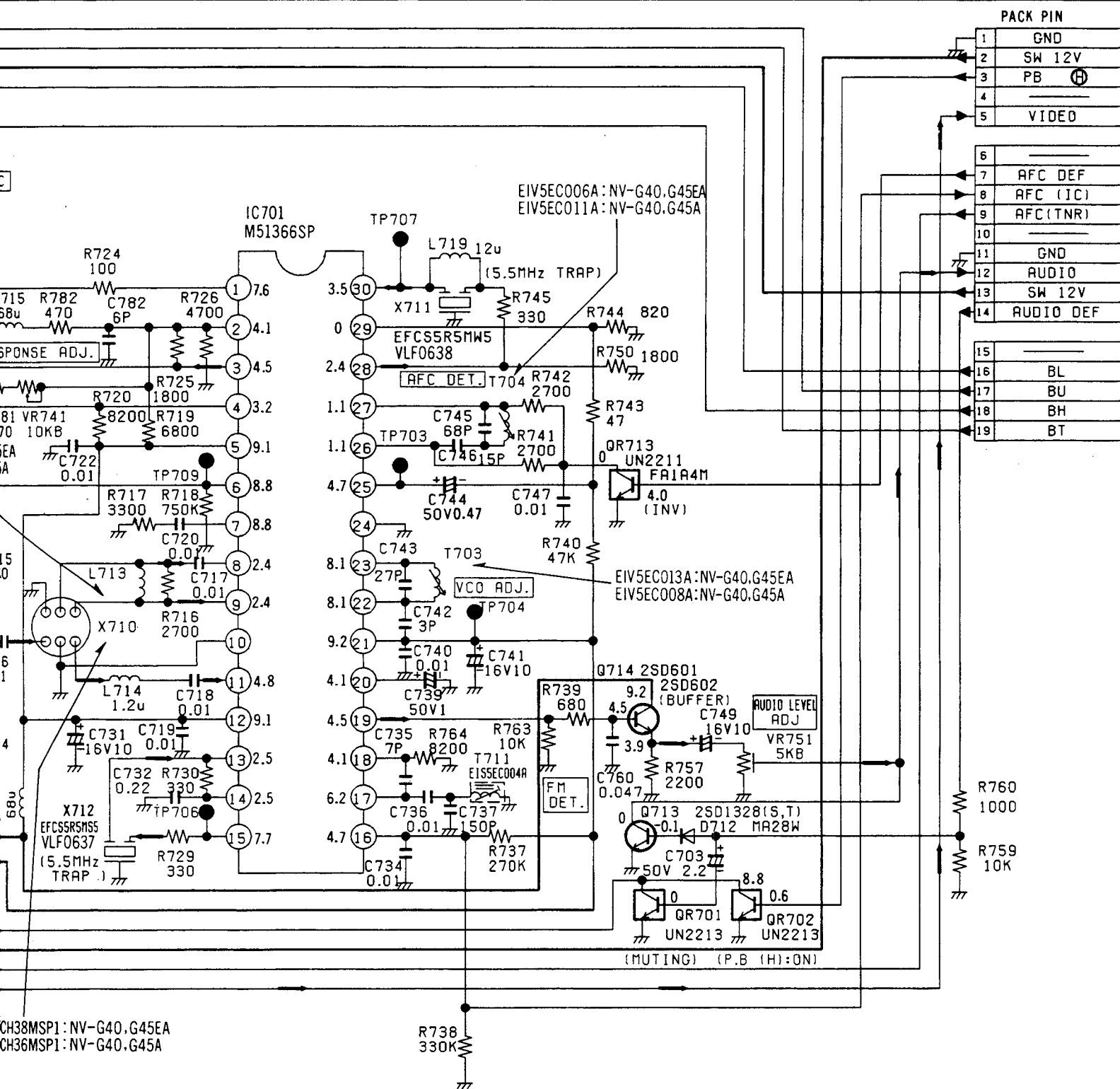
2

3

4

NV-G40A/EA, NV-G45A/EA)

L PATH



TV DEMODULATOR SECTION

4

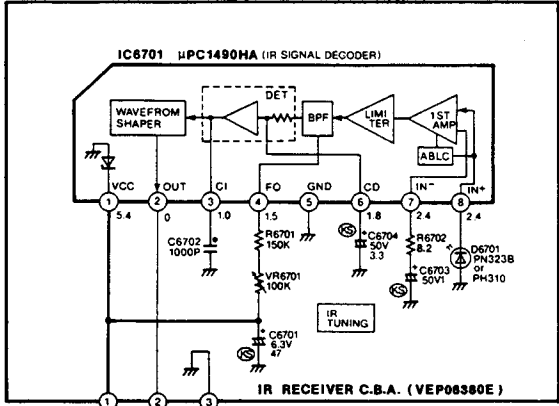
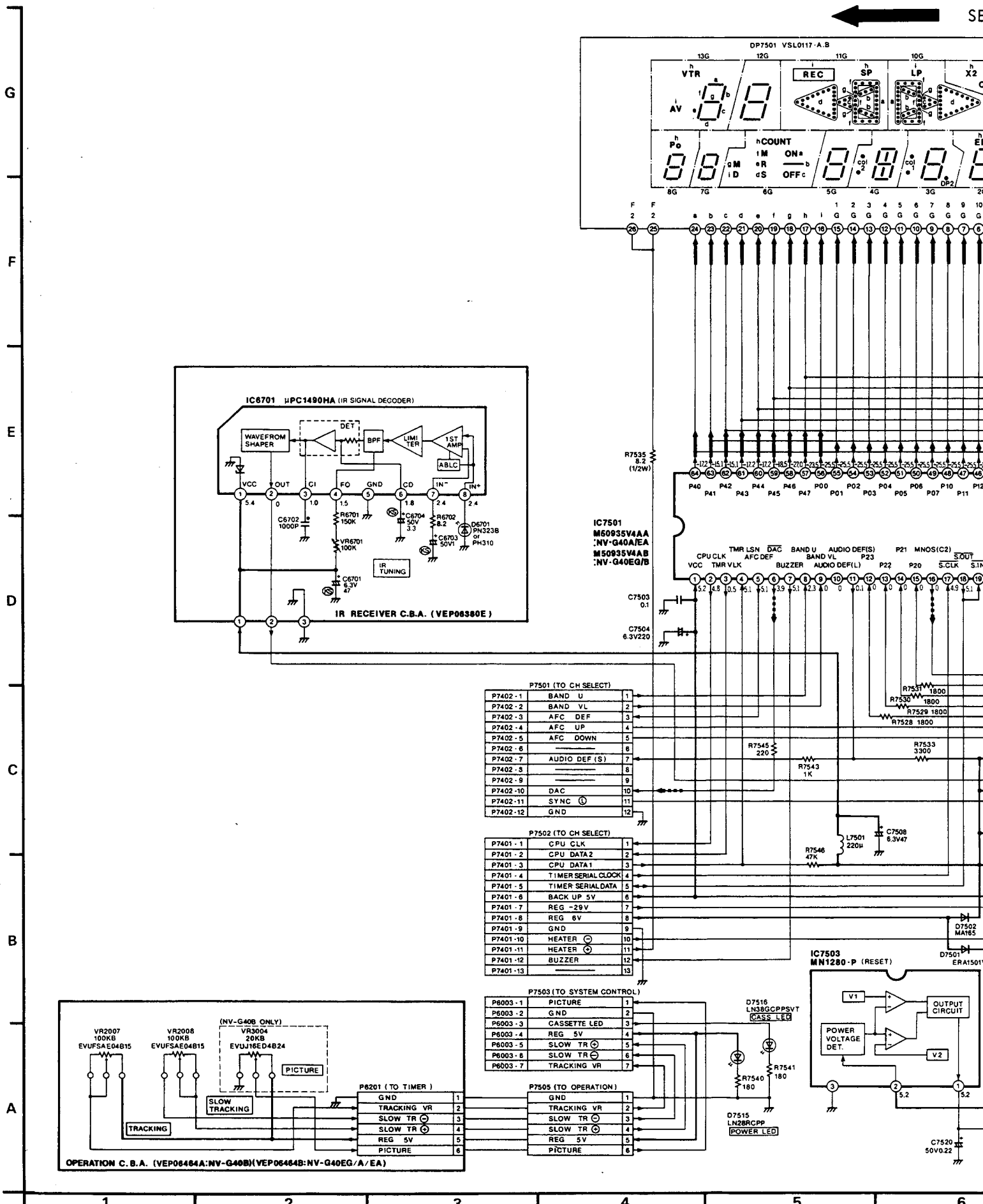
5

6

7

8

3-37. TIMER & OPERATION SCHEMATIC DIAGRAM (NV-G40EG/B/A/EA)



P7501 (TO CH SELECT)

P7402-1	BAND U	1
P7402-2	BAND VL	2
P7402-3	AFC DEF	3
P7402-4	AFC UP	4
P7402-5	AFC DOWN	5
P7402-6		6
P7402-7	AUDIO DEF (S)	7
P7402-8		8
P7402-9		9
P7402-10	DAC	10
P7402-11	SYNC	11
P7402-12	GND	12

P7502 (TO CH SELECT)

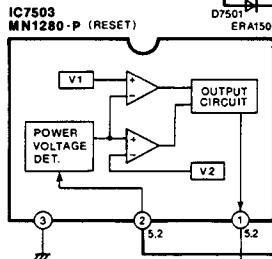
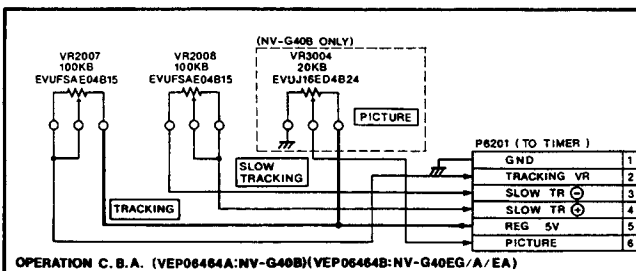
P7401-1	CPU CLK	1
P7401-2	CPU DATA2	2
P7401-3	CPU DATA1	3
P7401-4	TIMER SERIAL CLOCK	4
P7401-5	TIMER SERIAL DATA	5
P7401-6	BACK UP 5V	6
P7401-7	REG -29V	7
P7401-8	REG 6V	8
P7401-9	GND	9
P7401-10	HEATER	10
P7401-11	HEATER	11
P7401-12	BUZZER	12
P7401-13		13

P7503 (TO SYSTEM CONTROL)

P8003-1	PICTURE	1
P8003-2	GND	2
P8003-3	CASSETTE LED	3
P8003-4	REG 5V	4
P8003-5	SLOW TR	5
P8003-6	SLOW TR	6
P8003-7	TRACKING VR	7

P7505 (TO OPERATION)

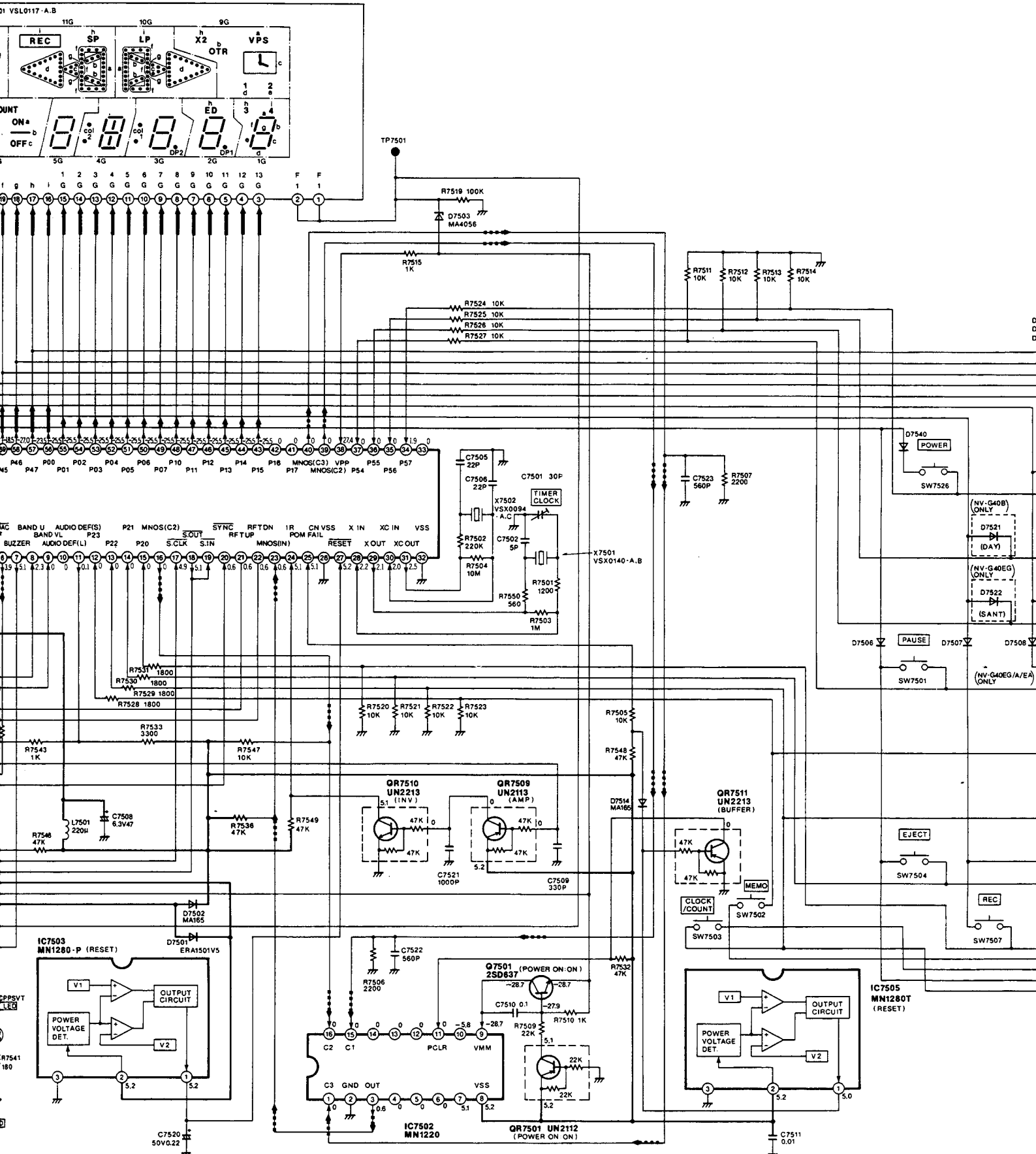
GND	1
TRACKING VR	2
SLOW TR	3
SLOW TR	4
REG 5V	5
PICTURE	6



G/B/A/EA)

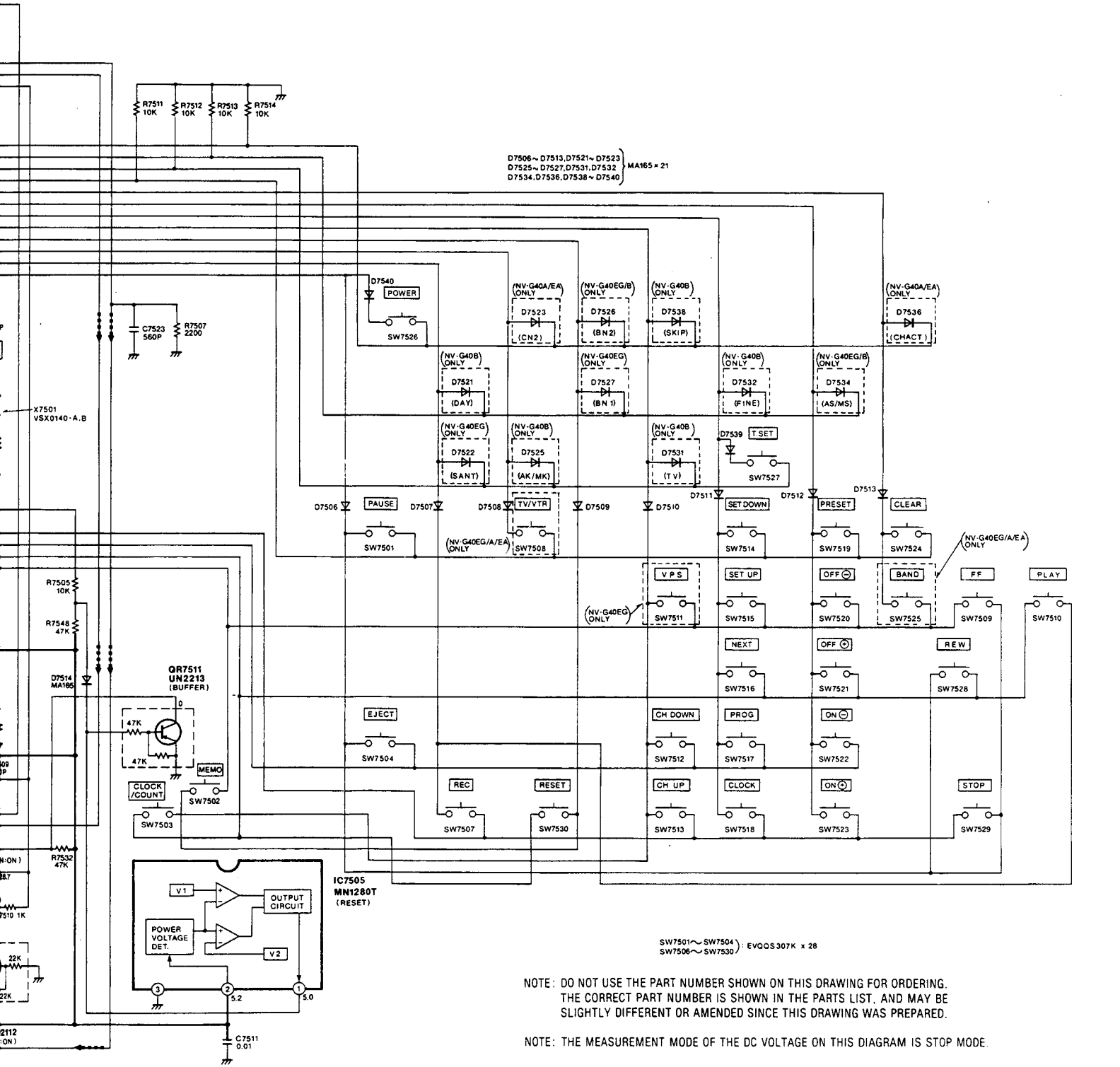
SEGMENT CONTROL SIGNAL

GRID CONTROL SIGNAL



← GRID CONTROL SIGNAL

← ■ ■ ■ ■ TUNE CONTROL SIGNAL



9

10

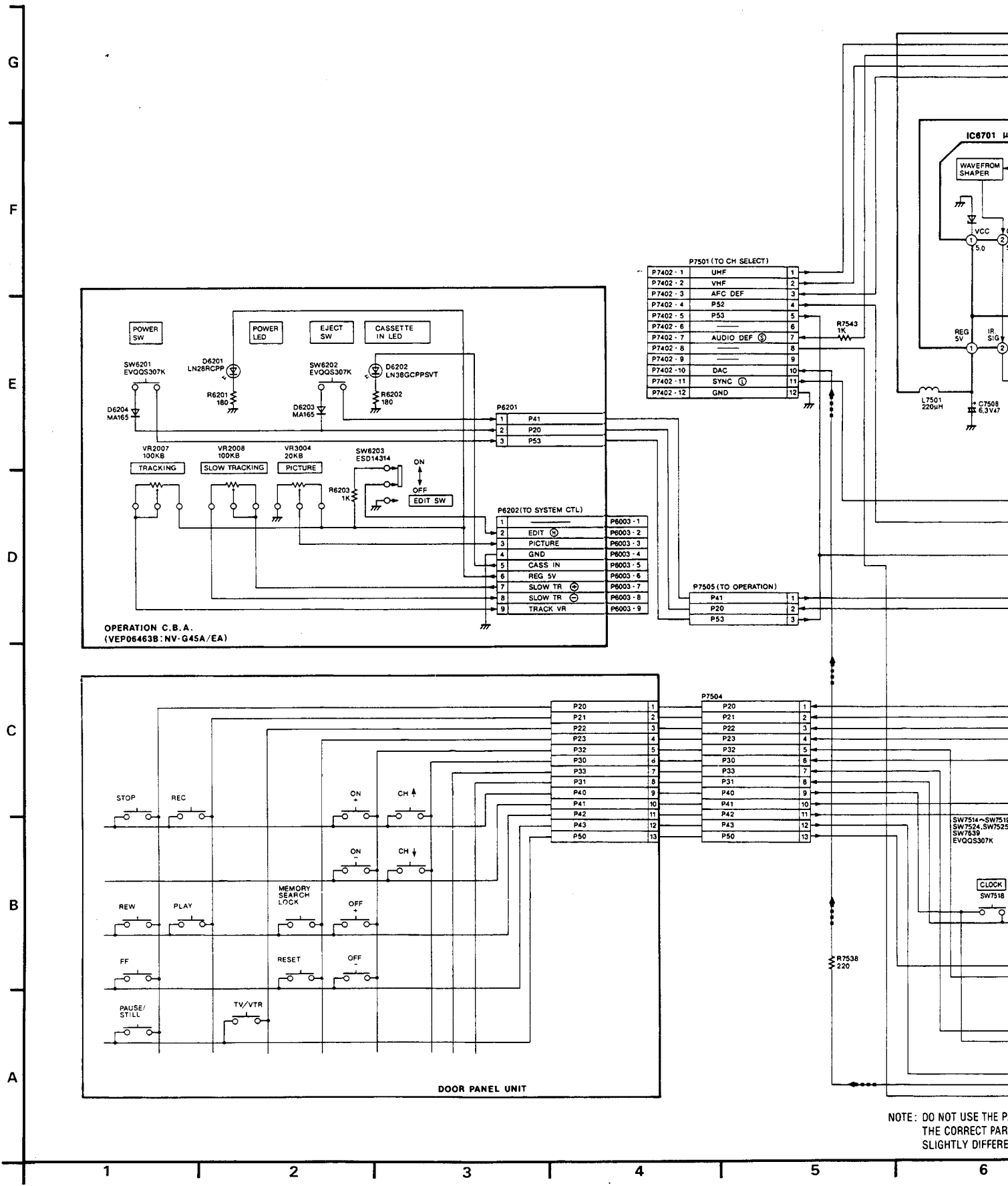
11

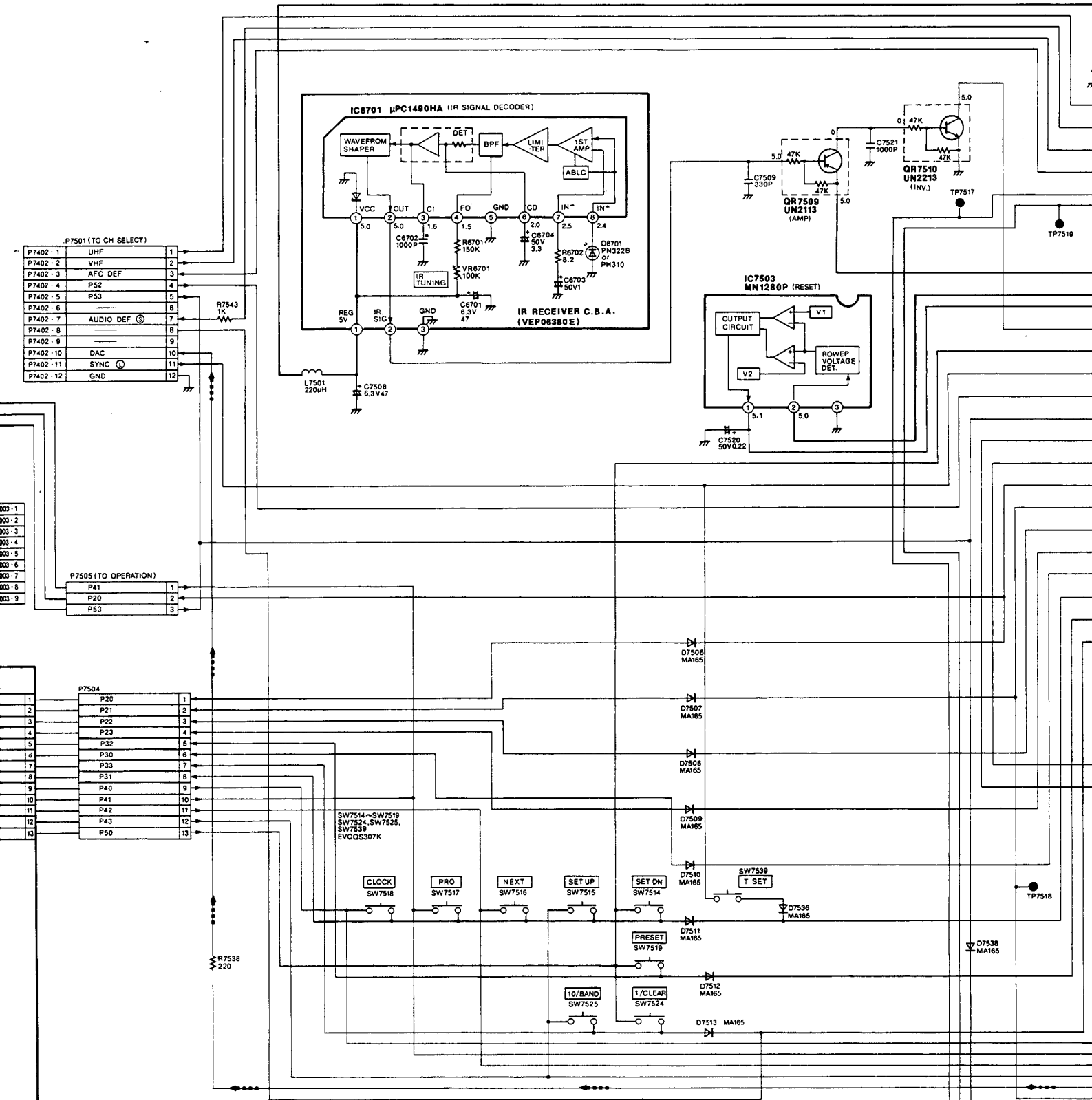
12

13

14

3-39. TIMER & OPERATION SCHEMATIC DIAGRAM (NV-G45A/EA)





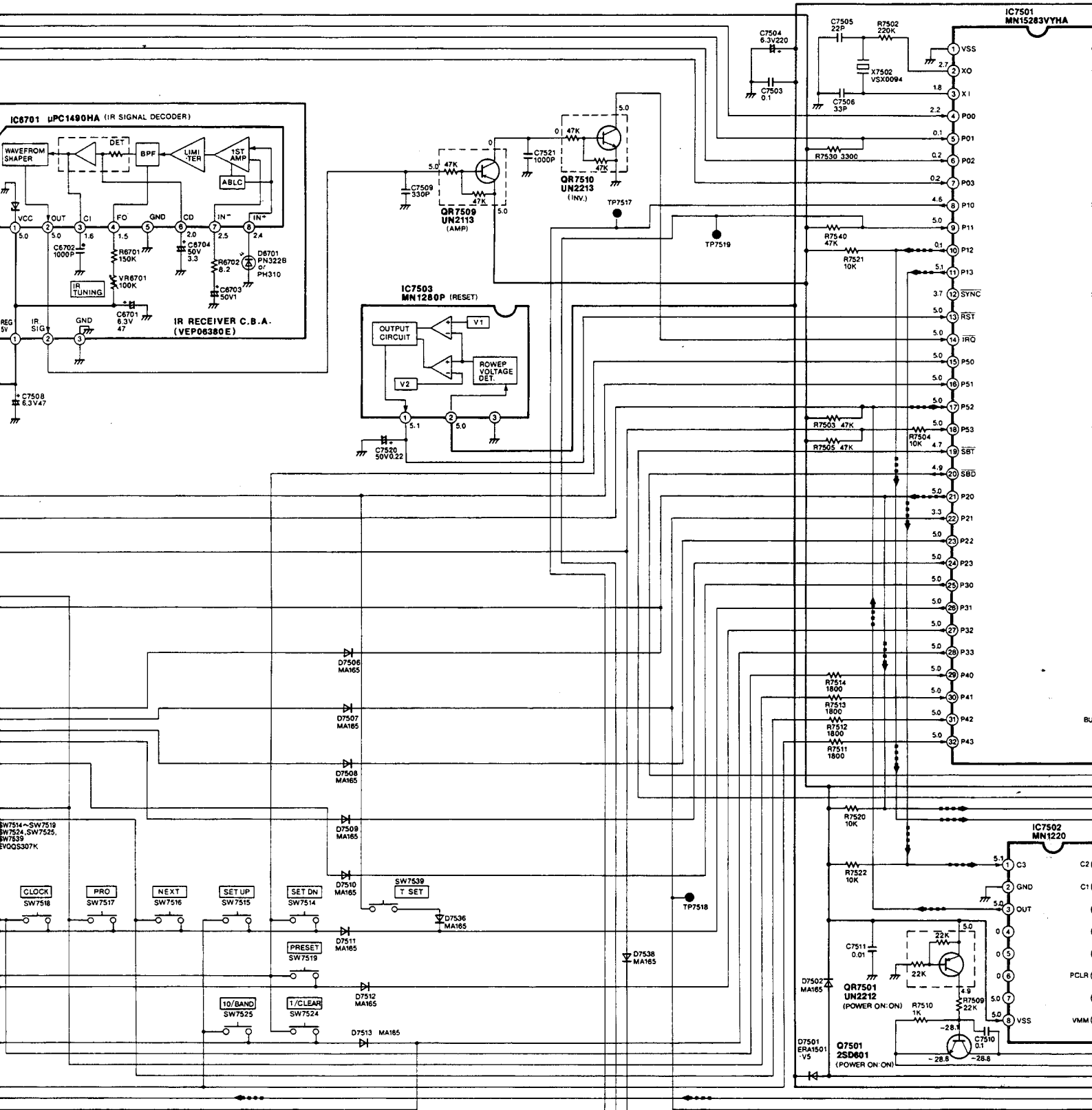
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.



SEGMENT CONTROL SIGNAL



GRID CONTROL



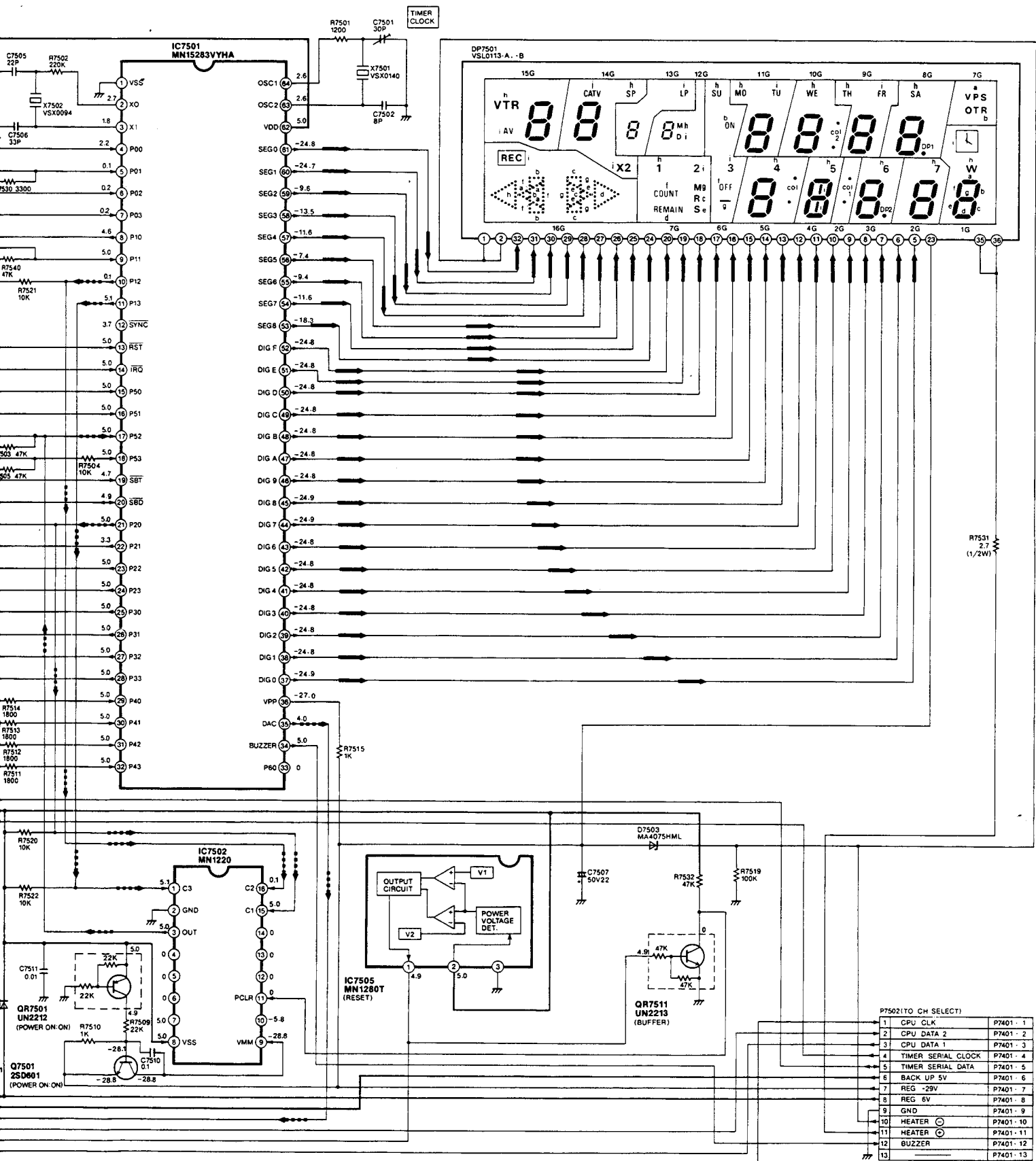
USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
 CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE
 DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS

6 | 7 | 8 | 9 | 10 | 11

← GRID CONTROL SIGNAL

← ■ ■ ■ ■ TUNE CONTROL SIGNAL

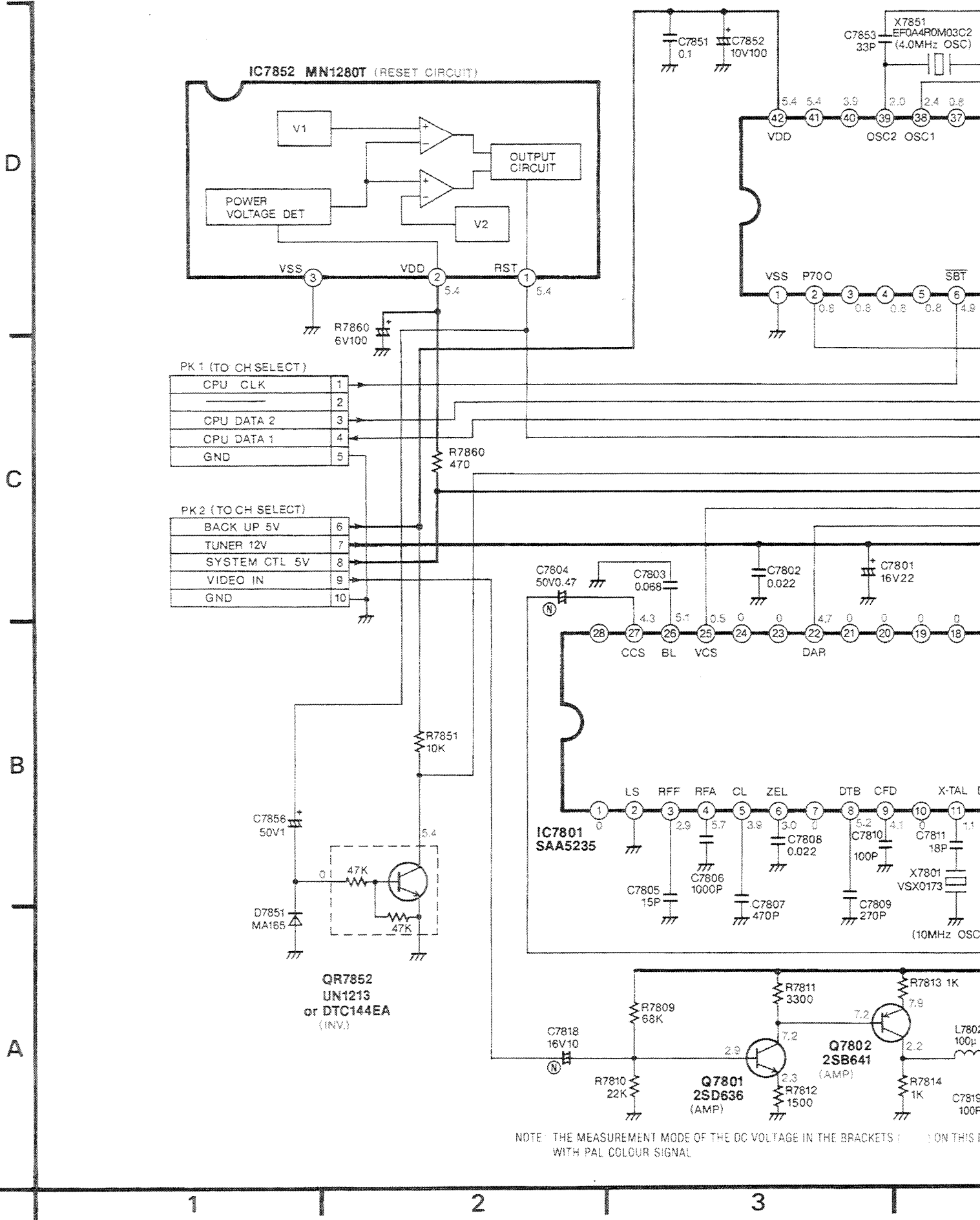


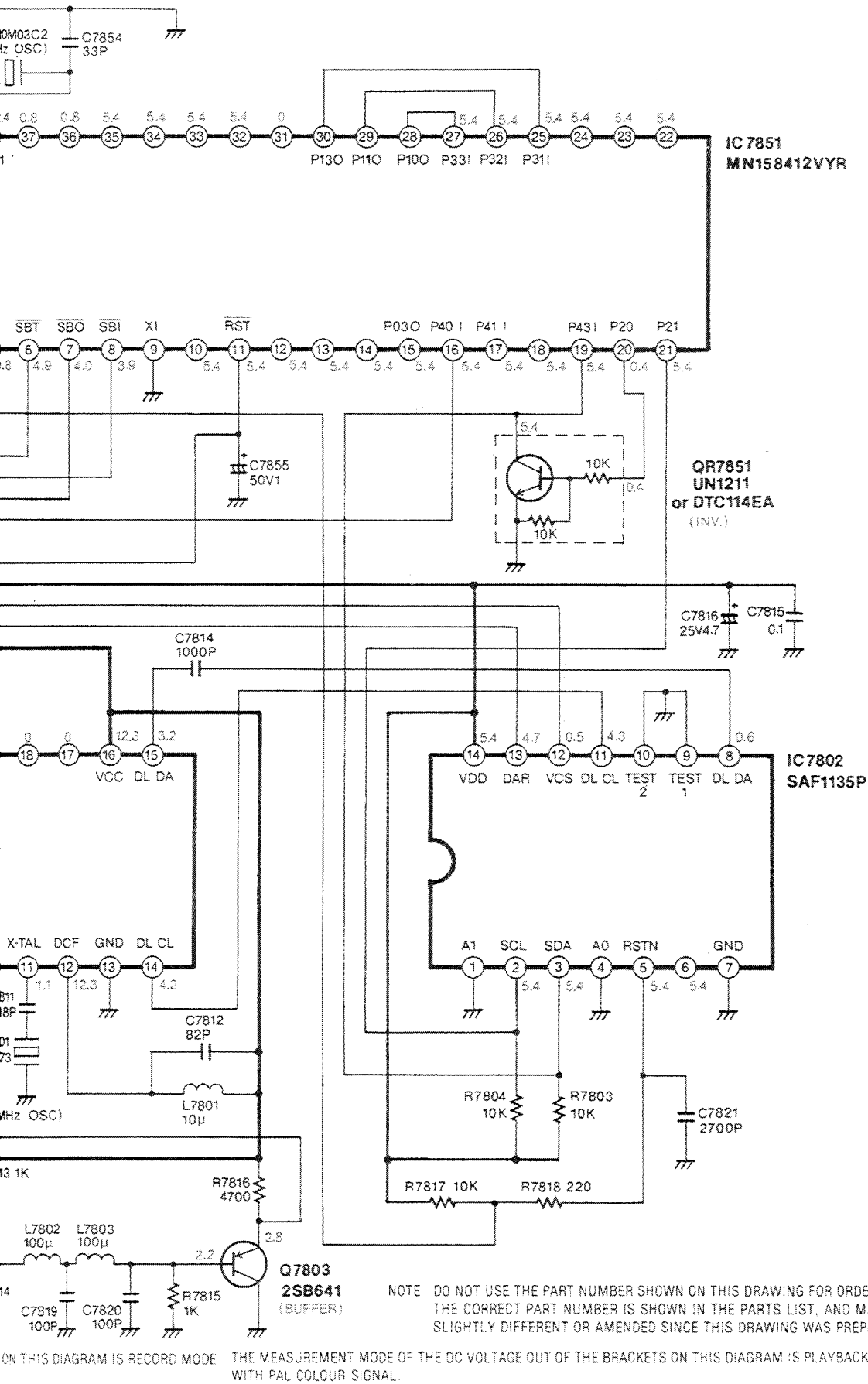
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

11 | 12 | 13 | 14 | 15 | 16

P75021 TO CH SELECT)	
1	CPU CLK
2	CPU DATA 2
3	CPU DATA 1
4	TIMER SERIAL CLOCK
5	TIMER SERIAL DATA
6	BACK UP 5V
7	REG -29V
8	REG 6V
9	GND
10	HEATER
11	HEATER
12	BUZZER
13	

3-41. VPS PACK SCHEMATIC DIAGRAM (NV-G40EG)





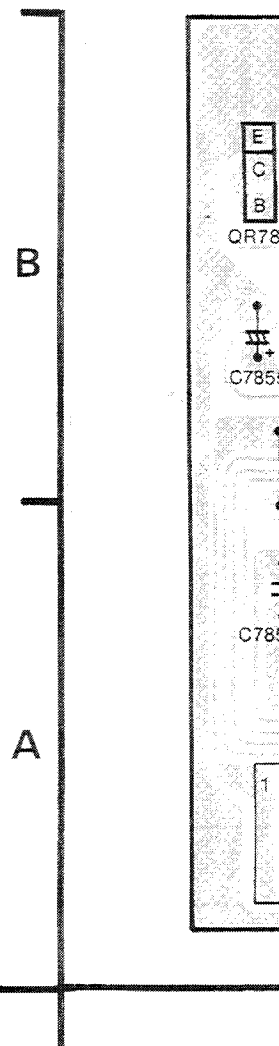
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

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

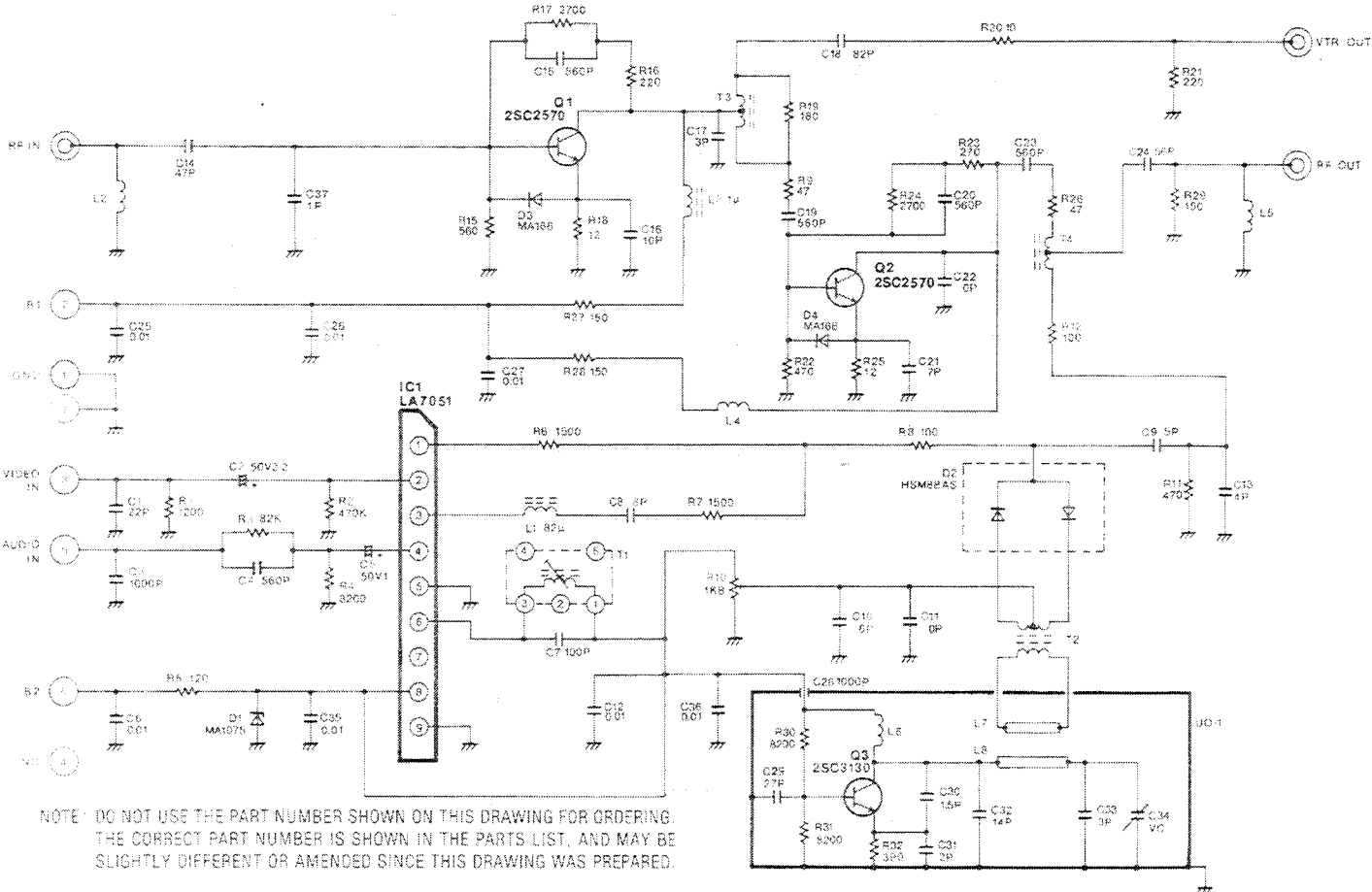
4

5

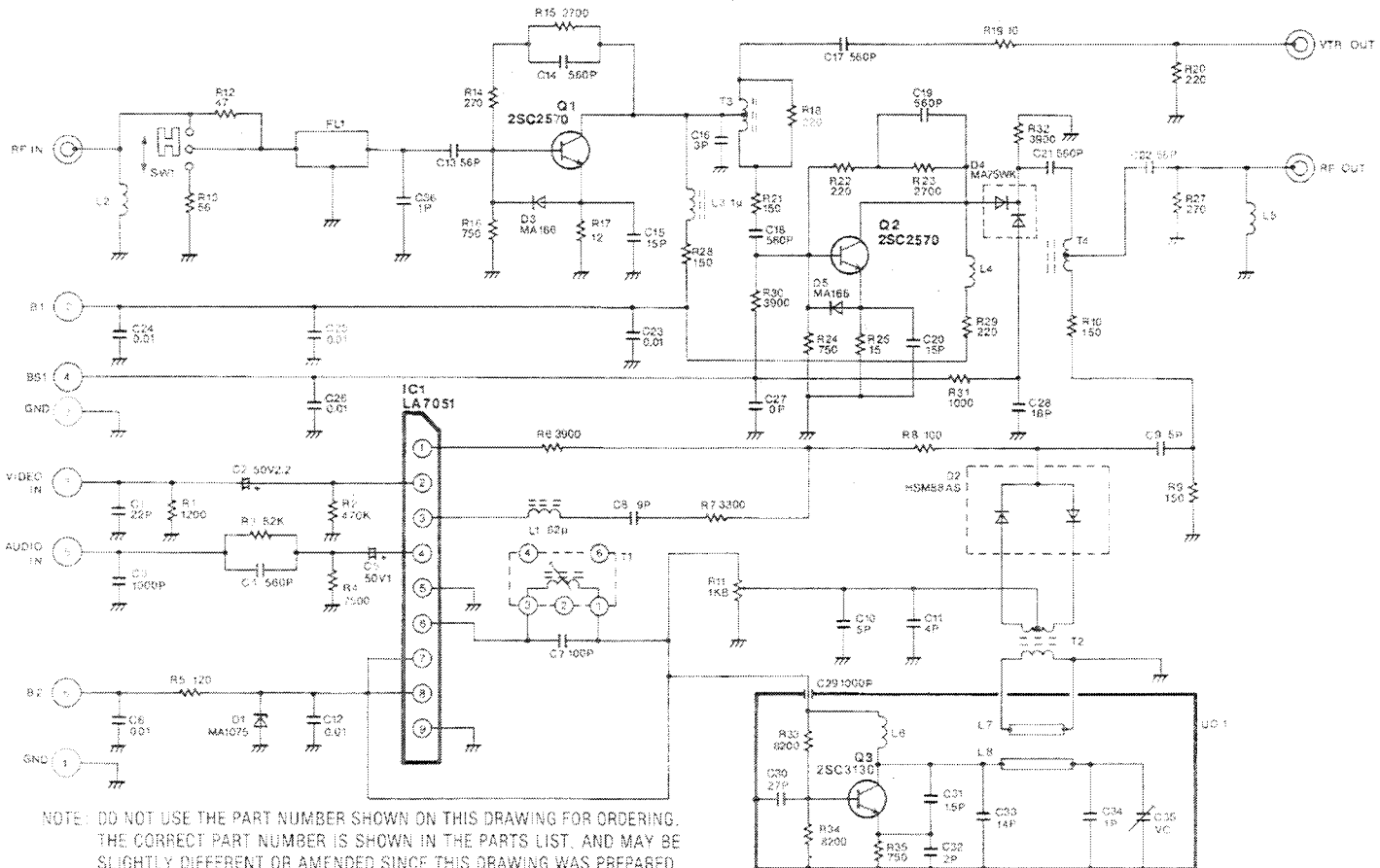
6



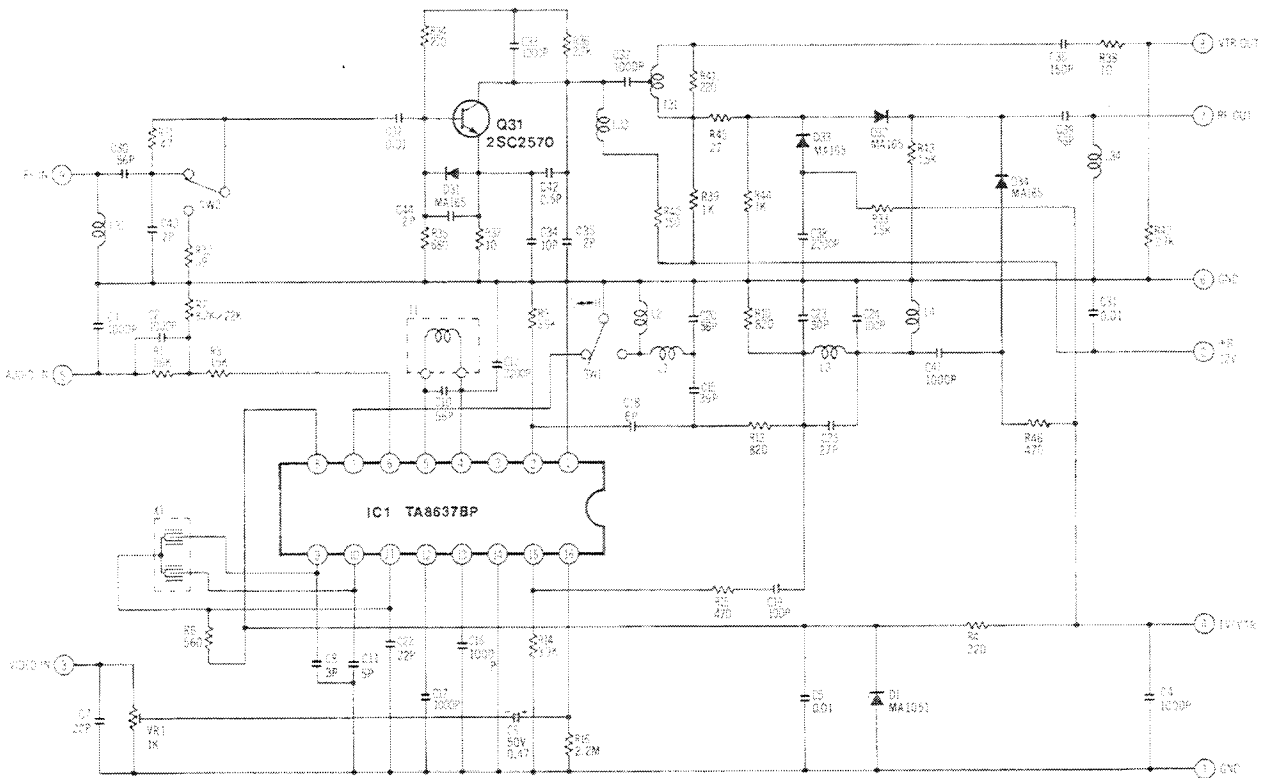
3-50. RF CONVERTER SCHEMATIC DIAGRAM (ENC87966: NV-G40EG)



3-51. RF CONVERTER SCHEMATIC DIAGRAM (ENC87962: NV-G40B)

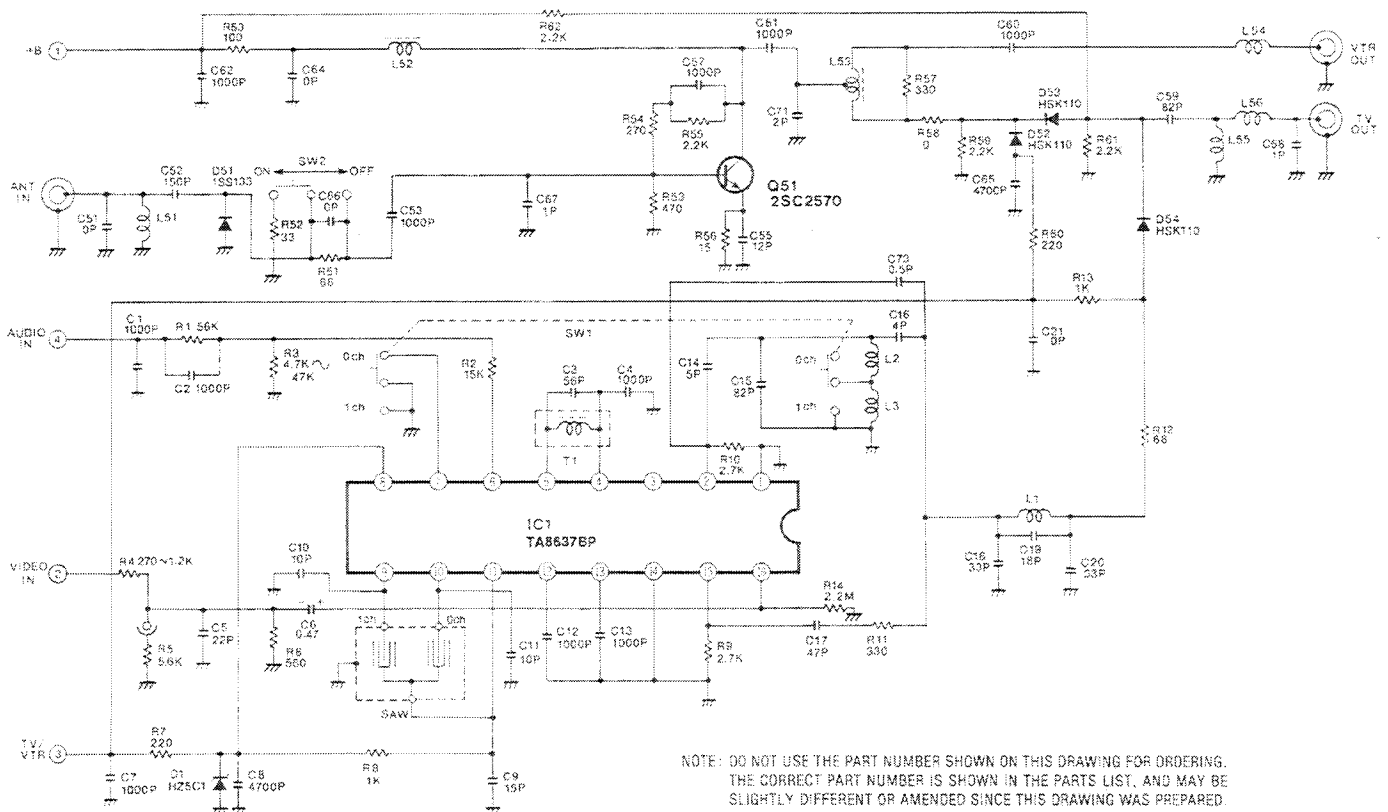


3-52. RF CONVERTER SCHEMATIC DIAGRAM (ENC87907: NV-G40A, NV-G45A)



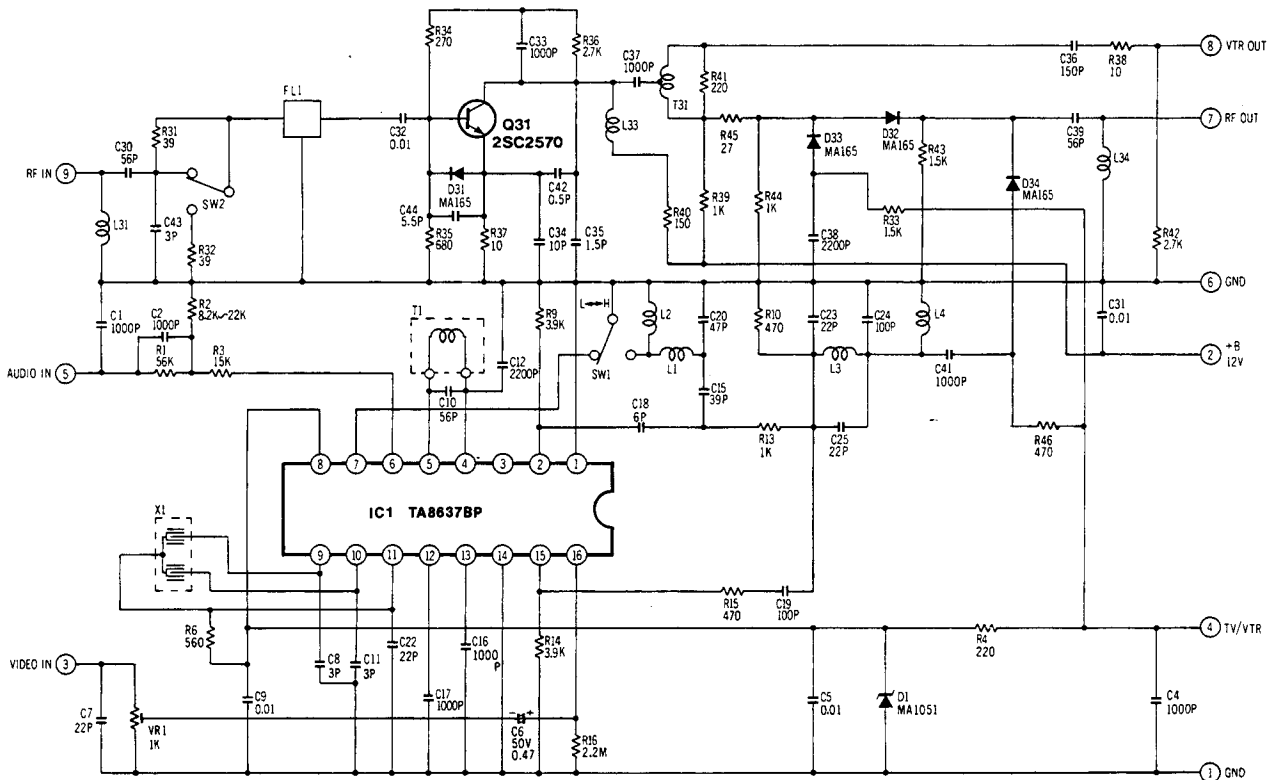
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-53. RF CONVERTER SCHEMATIC DIAGRAM (VEQ0622: NV-G40A, NV-G45A)



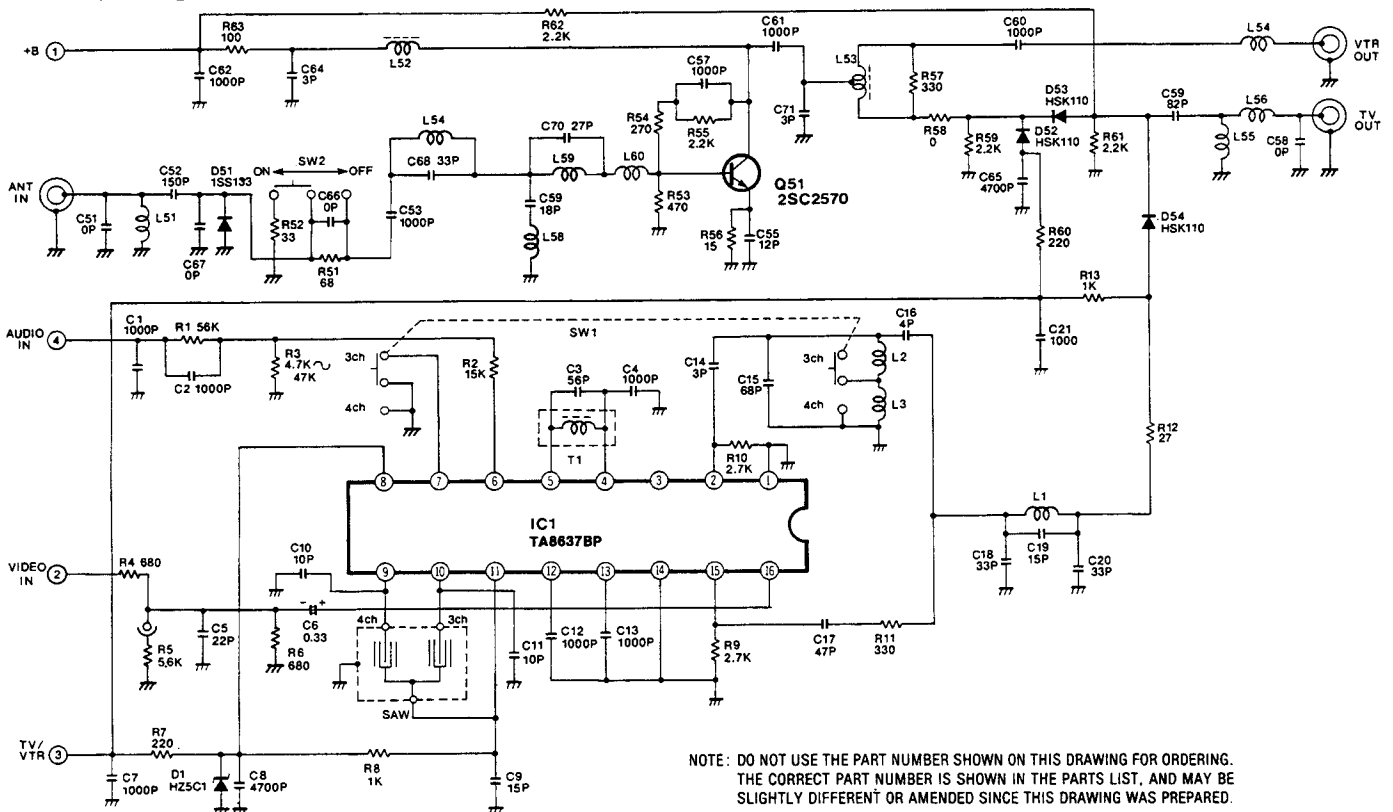
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-54. RF CONVERTER SCHEMATIC DIAGRAM (ENC87906: NV-G40EA, NV-G45EA)



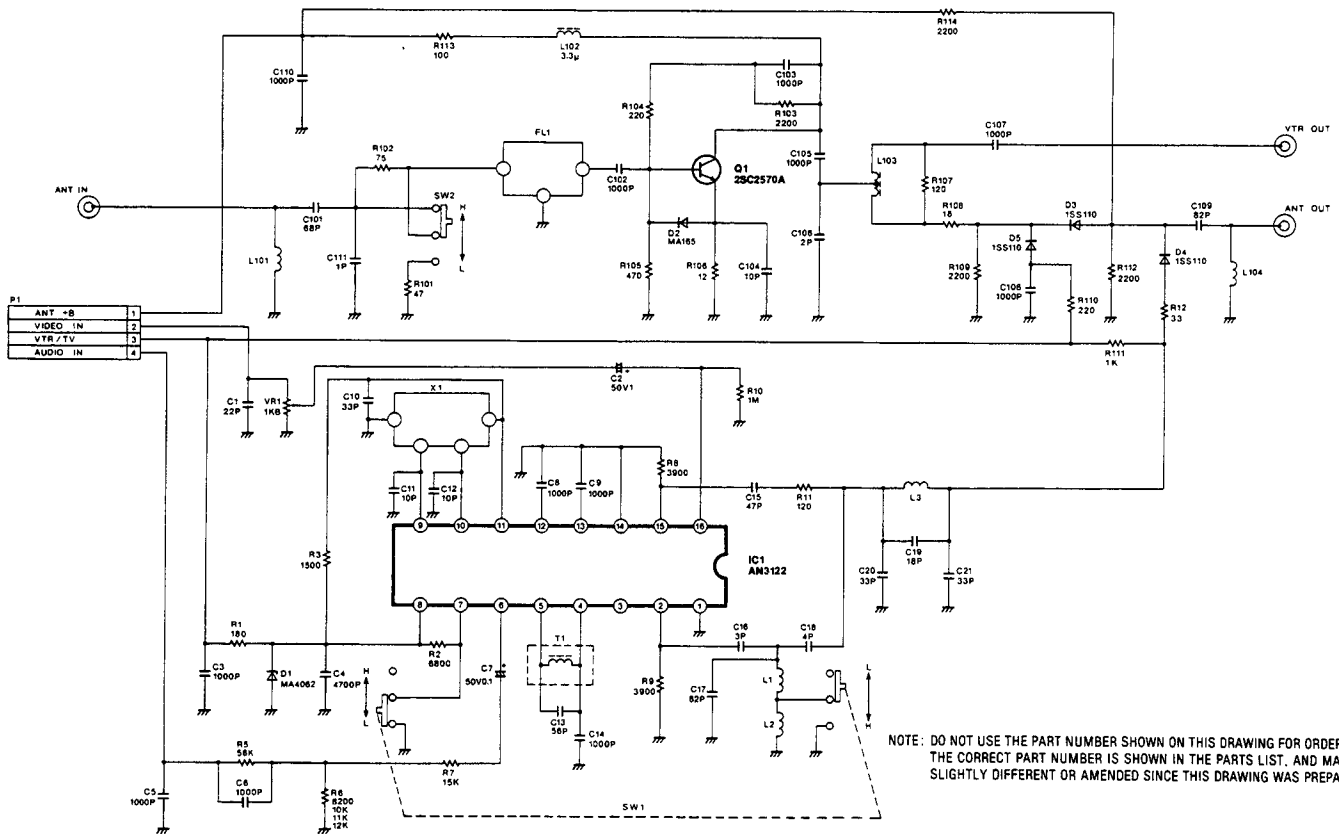
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-55. RF CONVERTER SCHEMATIC DIAGRAM (VEQ0621: NV-G40EA, NV-G45EA)



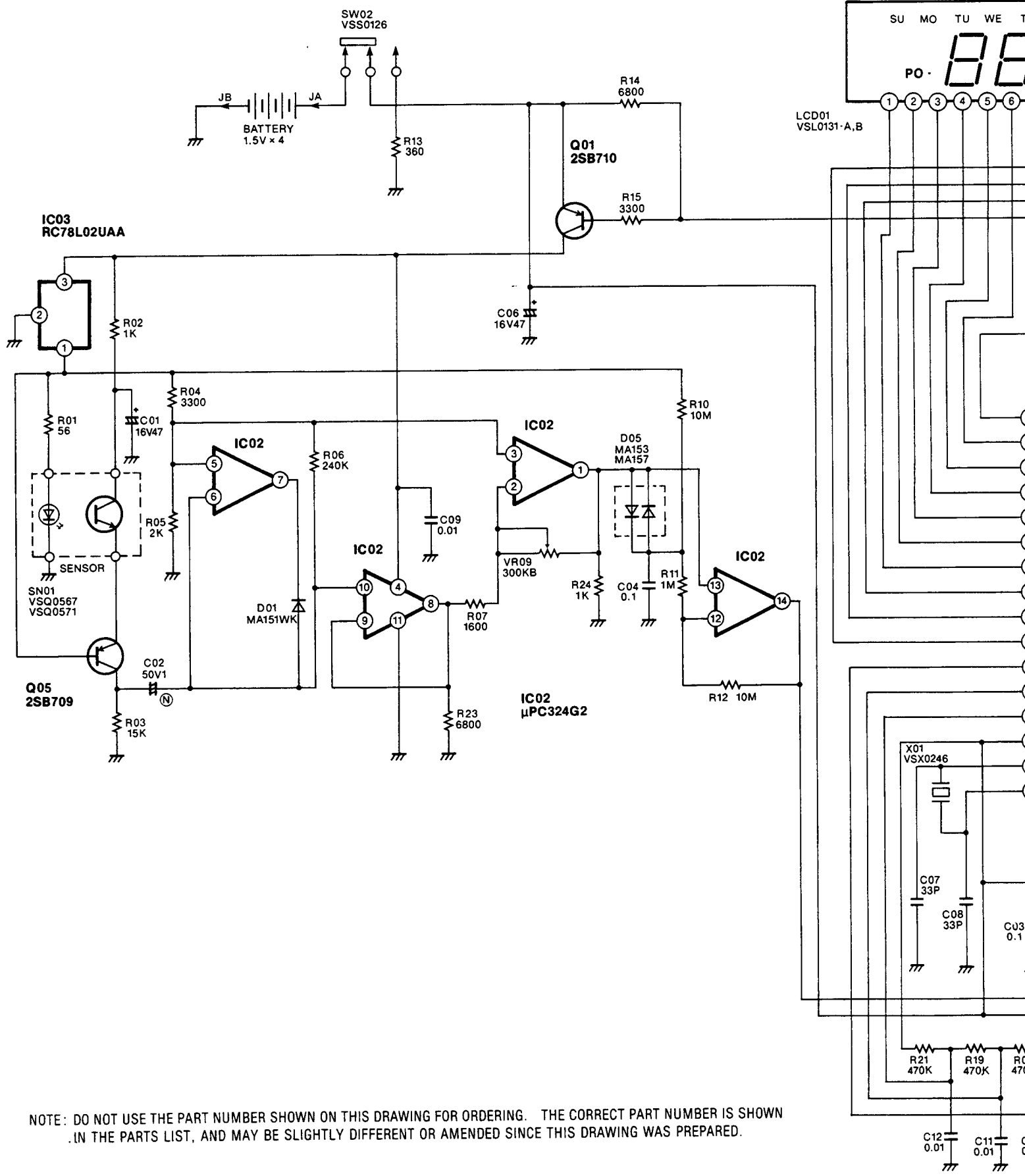
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-56. RF CONVERTER SCHEMATIC DIAGRAM (VEQ0593: NV-G40EA, NV-G45EA)



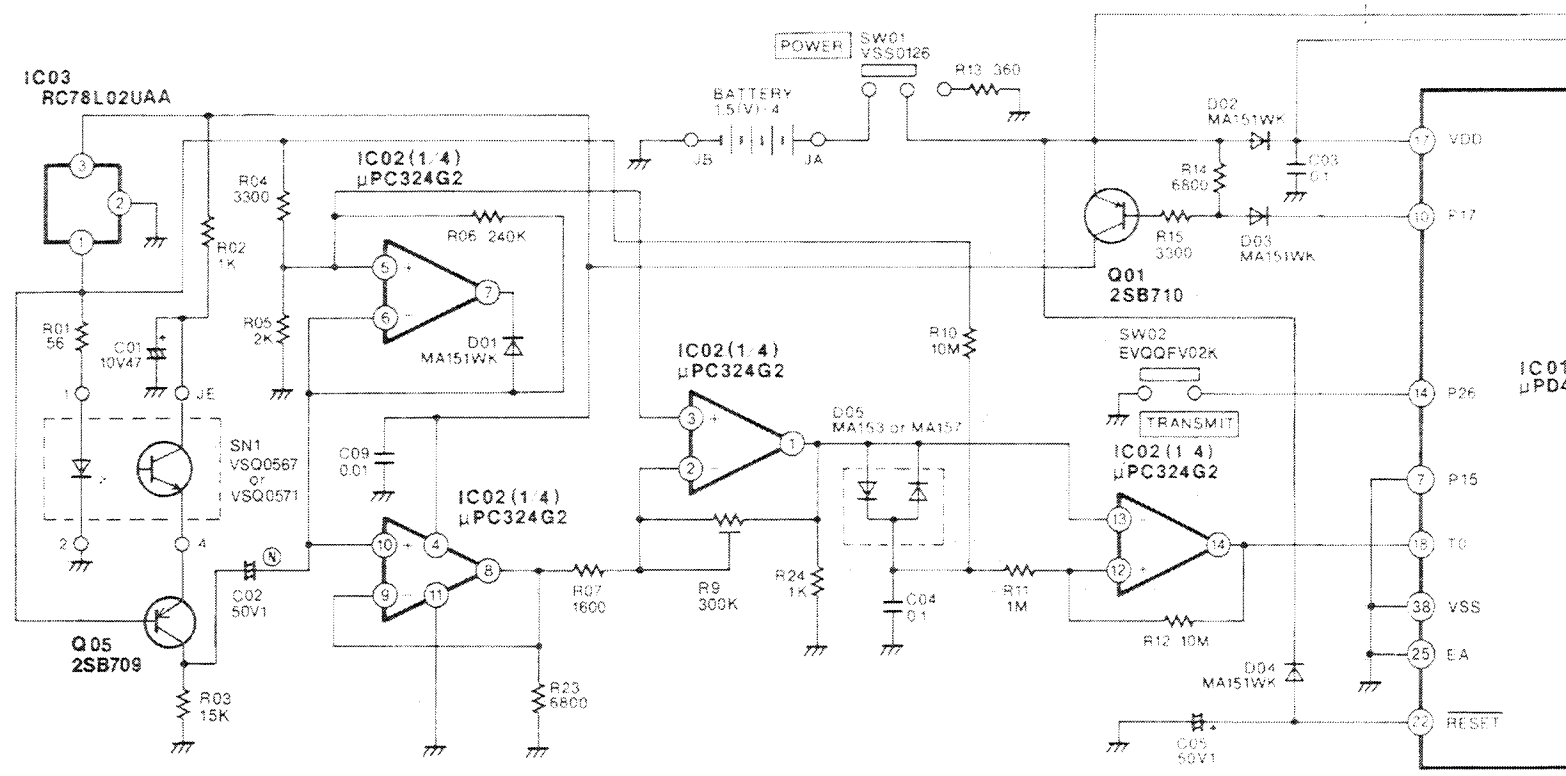
3-57. DIGITAL SCANNER SCHEMATIC DIAGRAM

UNIT NO.: VEQ0691 (NV-G40EG), VEQ0692 (NV-G40B, NV-G45A/EA)



NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-59. DIGITAL SCANNER SCHEMATIC DIAGRAM
 — UNIT NO.: VEQ0639 (NV-G40A/EA) —



3-60. DIGITAL SCANNER C.B.A. (VEP66033C: NV-G40A/EA)

