

SONY®

VIDEOCODER

BVH-2000PS



The function control panel, side panels and handles in this photograph shown are optionally available.

Le panneau de contrôle des fonction, les panneaux latéraux et les poignées présentés sur cette photographie sont disponibles comme équipements en option.

Das hier abgebildete Bedienungspult, die Seitenteile und die Griffe sind gesondert lieferbares Zubehör.



OPERATION AND MAINTENANCE MANUAL

Volume 3 1st Edition (Revised 9)

Serial No. 10001 and Higher

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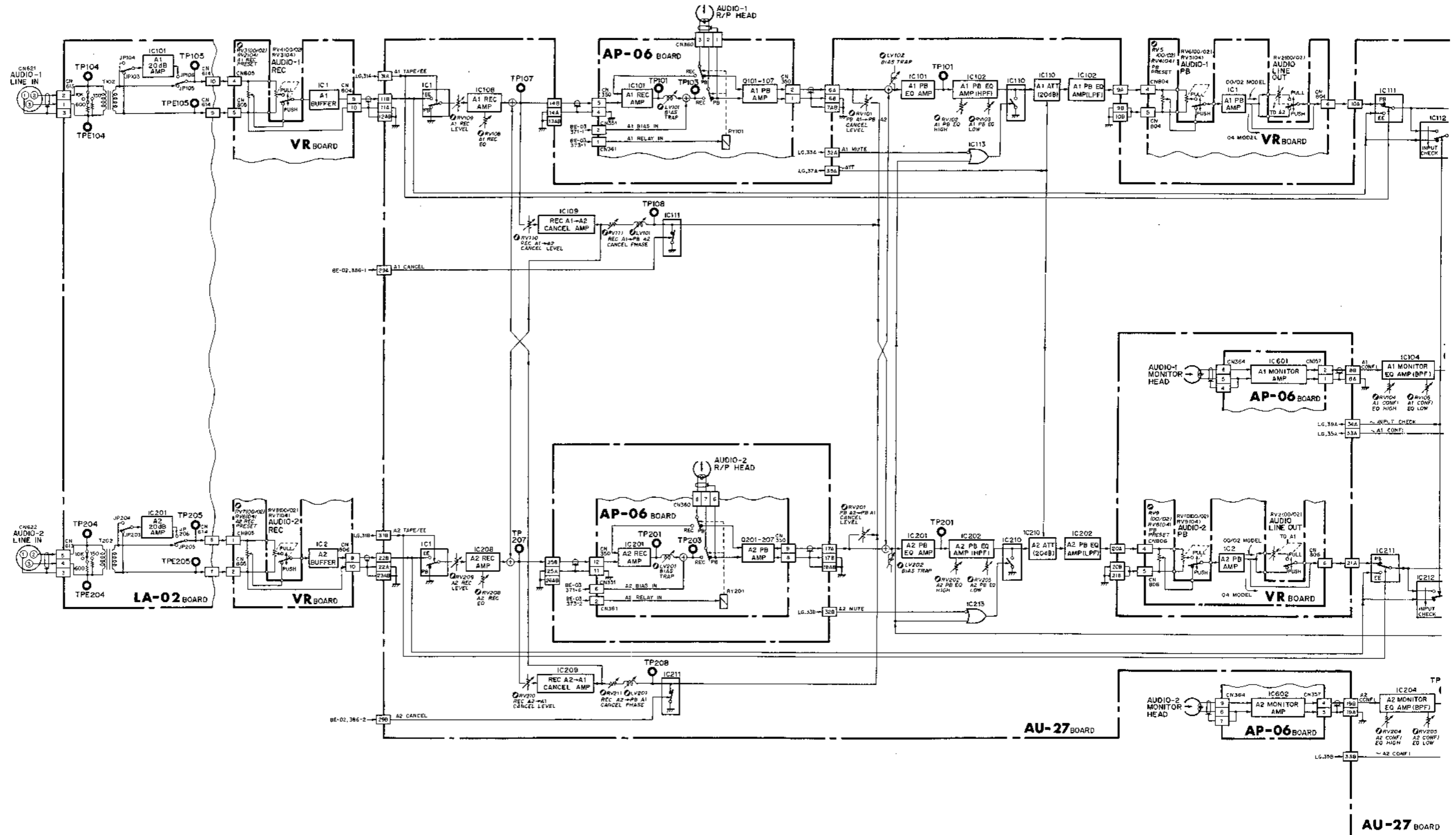
Volume 4

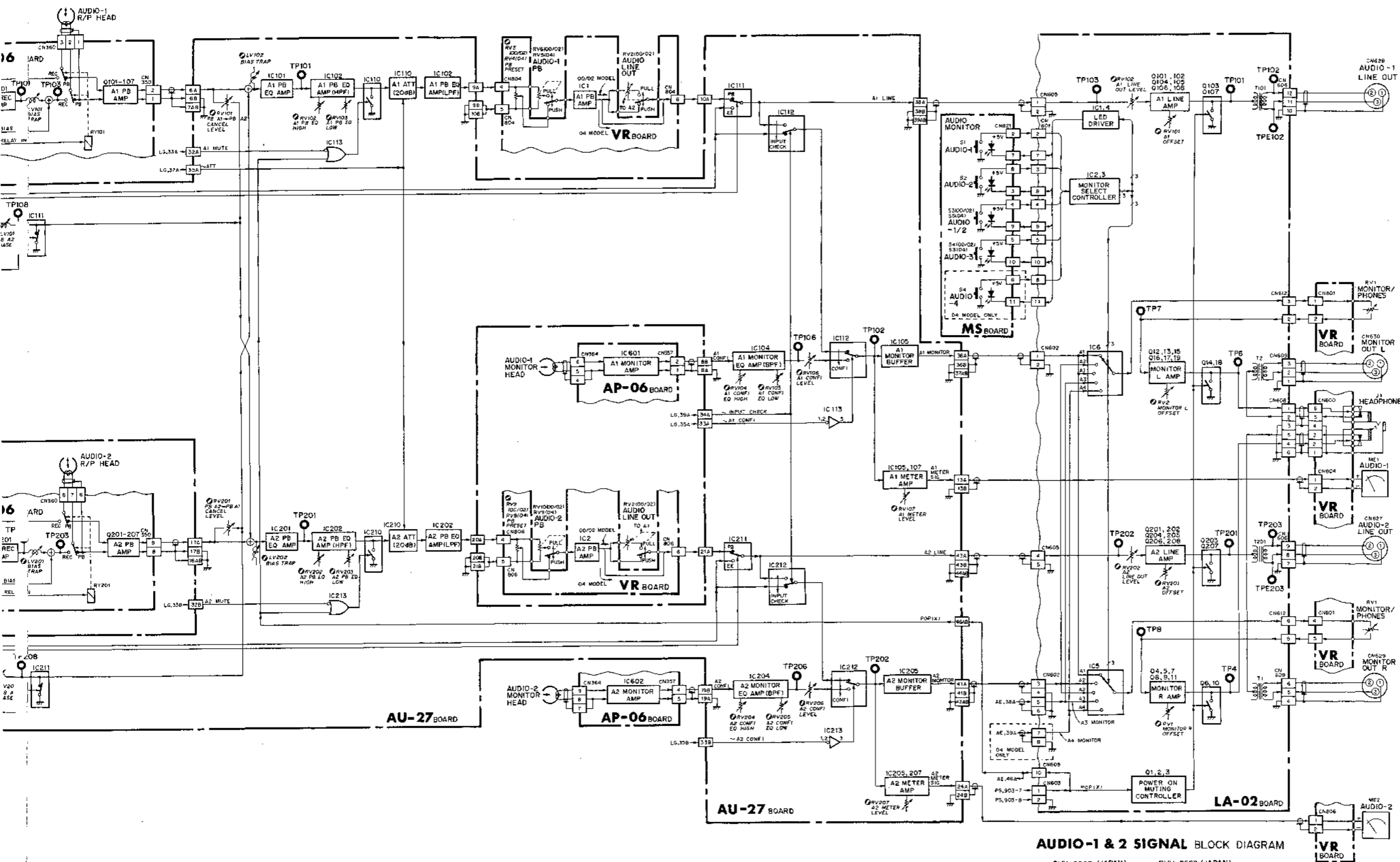
D. REPLACEABLE PARTS & OPTIONAL FIXTURE

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AUDIO-1 & 2 SIGNAL SYSTEM

- AU-27 BOARD
- AP-06 BOARD
- LA-02 BOARD
- VR BOARD
- MS BOARD



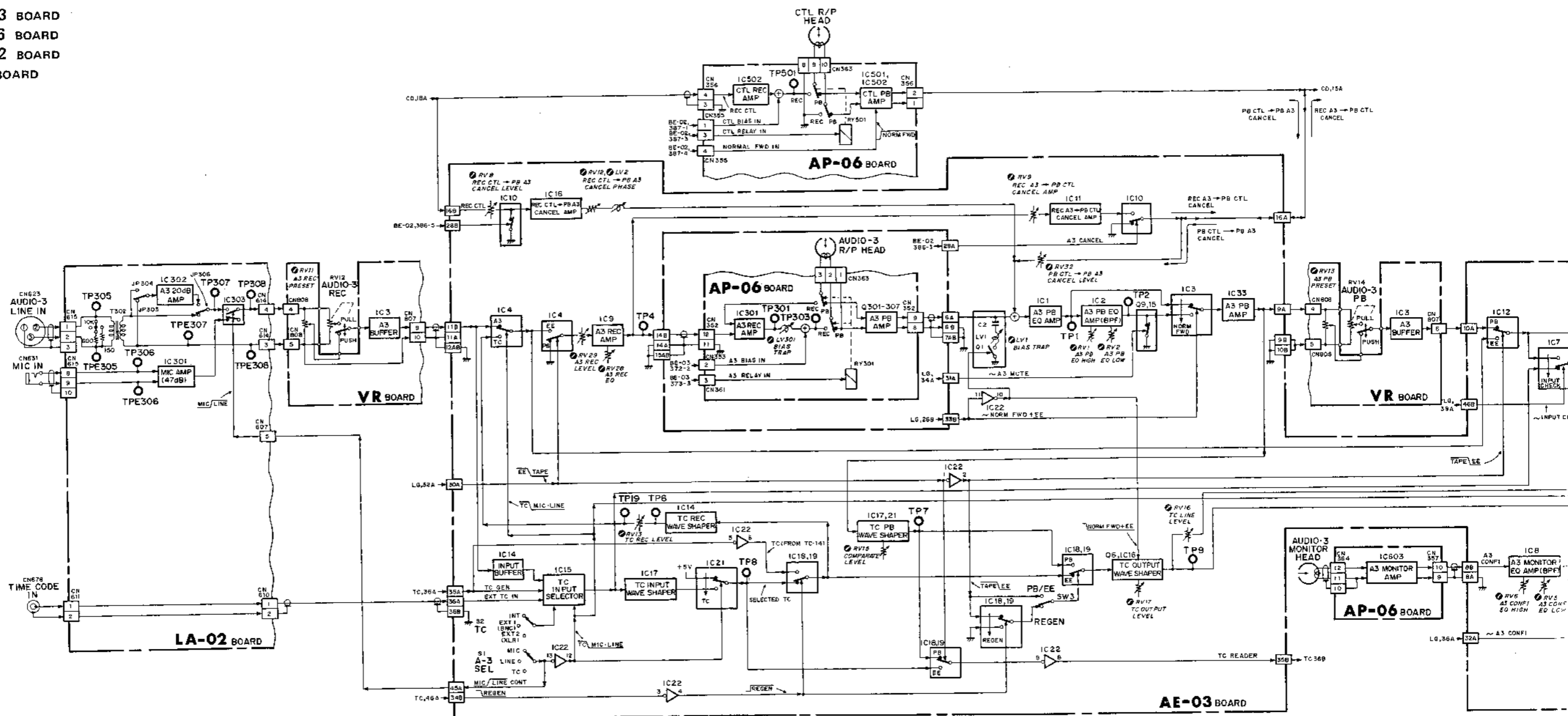


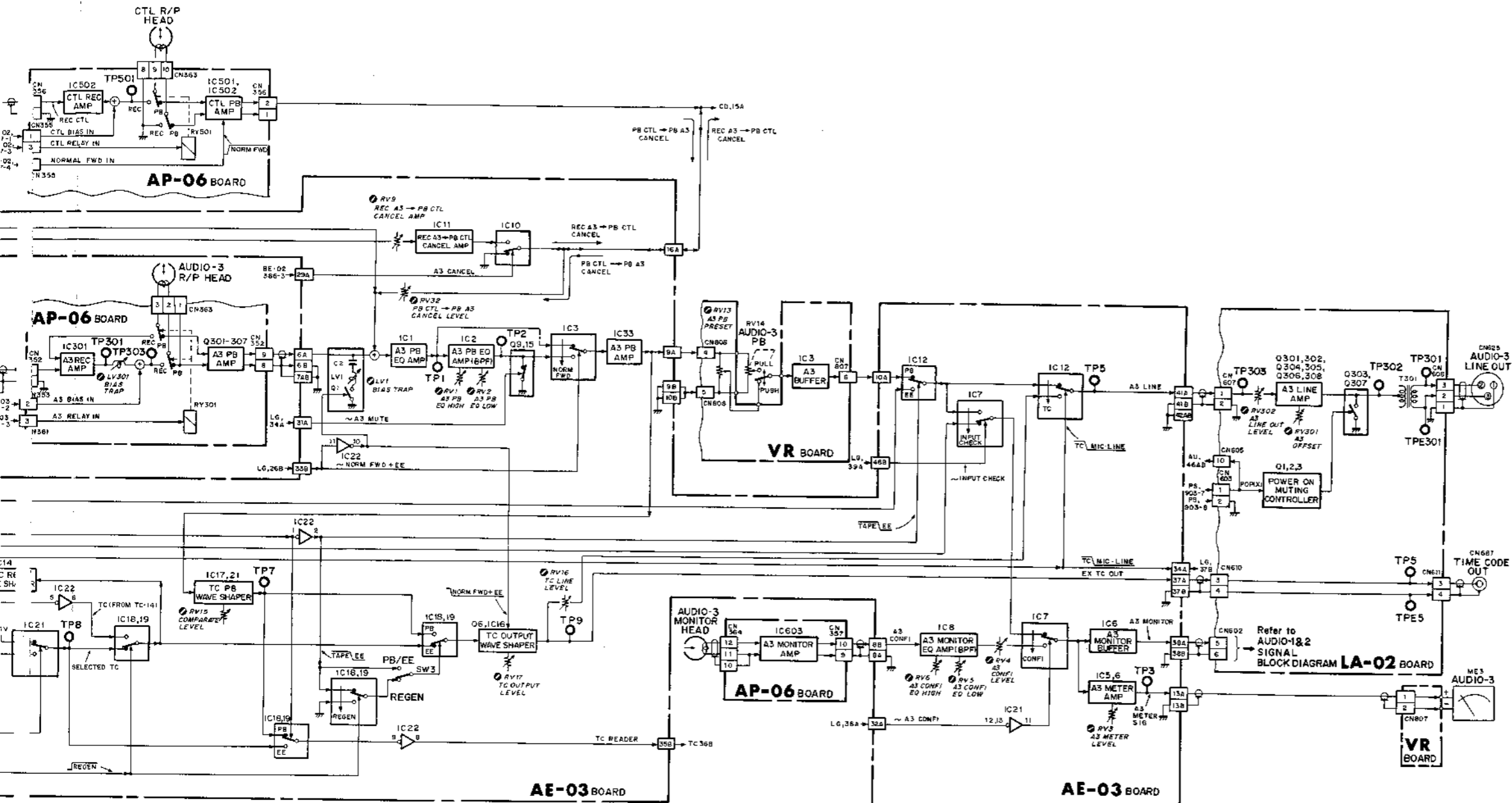
AUDIO-1 & 2 SIGNAL BLOCK DIAGRAM

BVH-2000 (JAPAN) BVH-2500 (JAPAN)
 BVH-2000 (US/CANADA) BVH-2500 (US/CANADA)
 BVH-2000PS (AEP) BVH-2500PS (AEP)
 BVH-2000PM (BRZ)

AUDIO-3 SIGNAL SYSTEM

- AE-03 BOARD
- AP-06 BOARD
- LA-02 BOARD
- VR BOARD





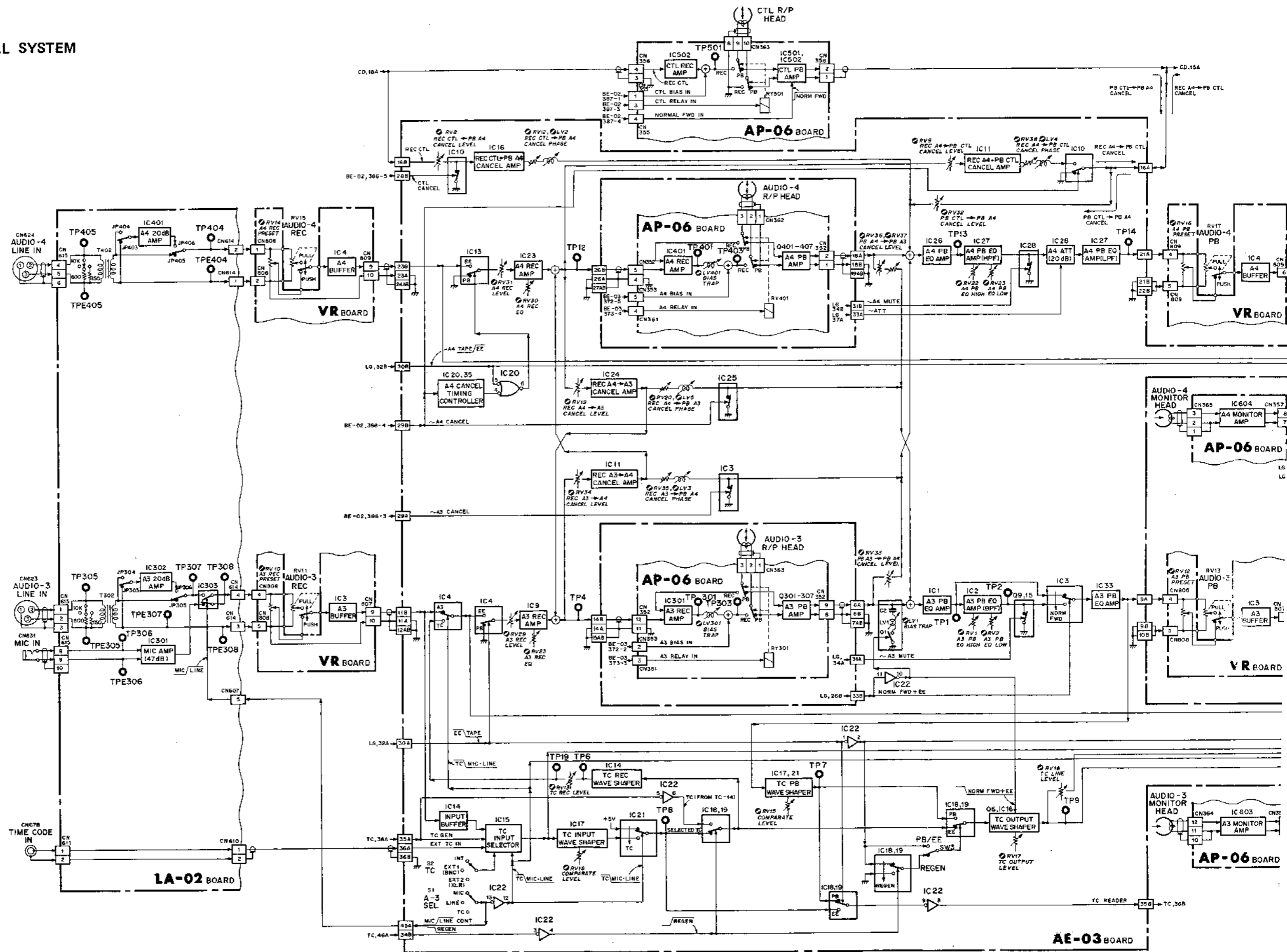
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CTL REC/PB AMP
TC SELECT**

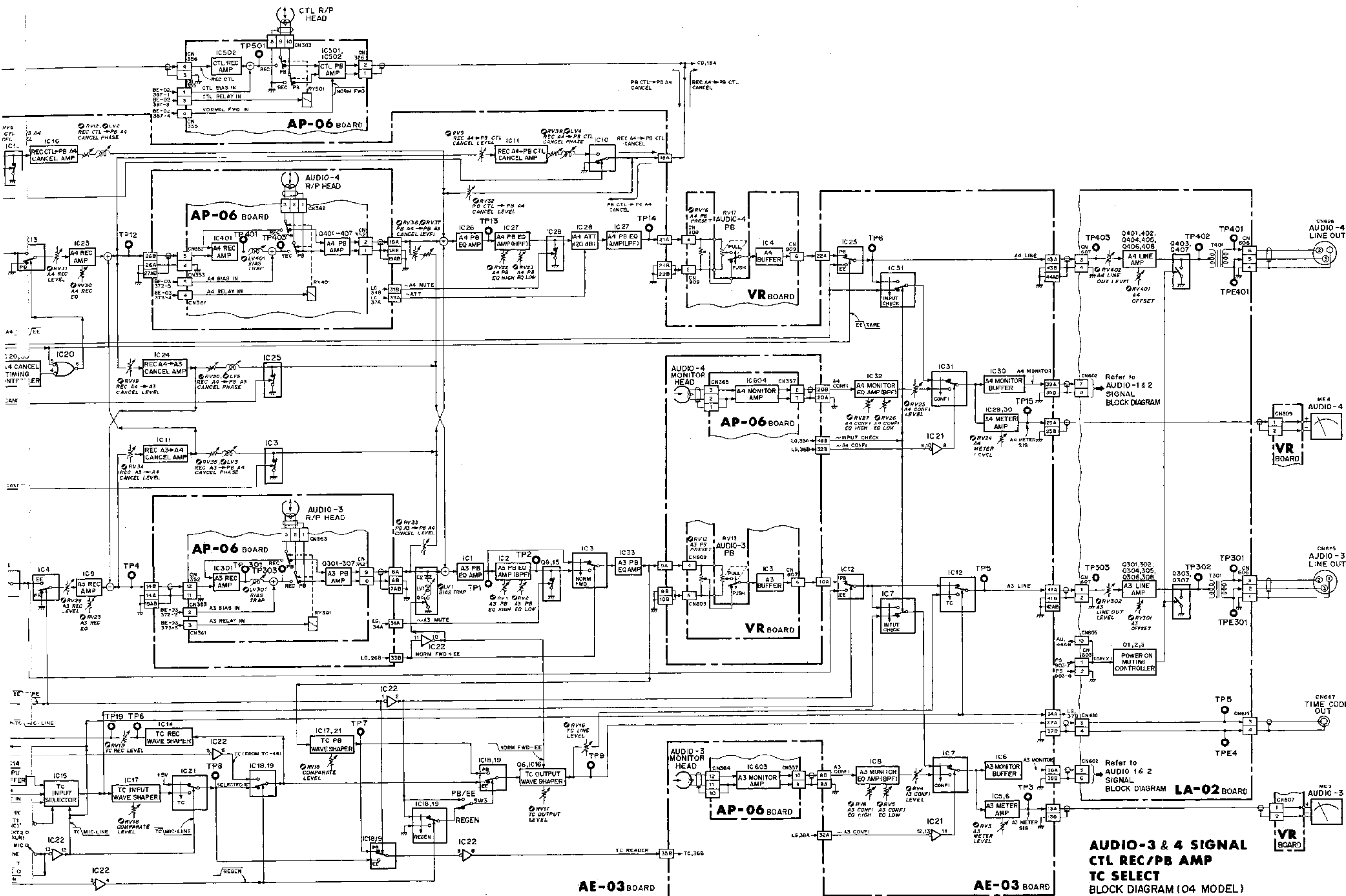
BLOCK DIAGRAM (00/02 MODEL)

- | | | | |
|---------------|-----------|---------------|-----------|
| BVH-2000(J) | :# 10501- | BVH-2500(J) | :# 10001- |
| BVH-2000(U/C) | :# 10501- | BVH-2500(U/C) | :# 10001- |
| BVH-2000PS | :# 10301- | BVH-2500P | :# 10001- |
| BVH-2000PM | :# 10001- | | |

AUDIO-3 & 4 SIGNAL SYSTEM

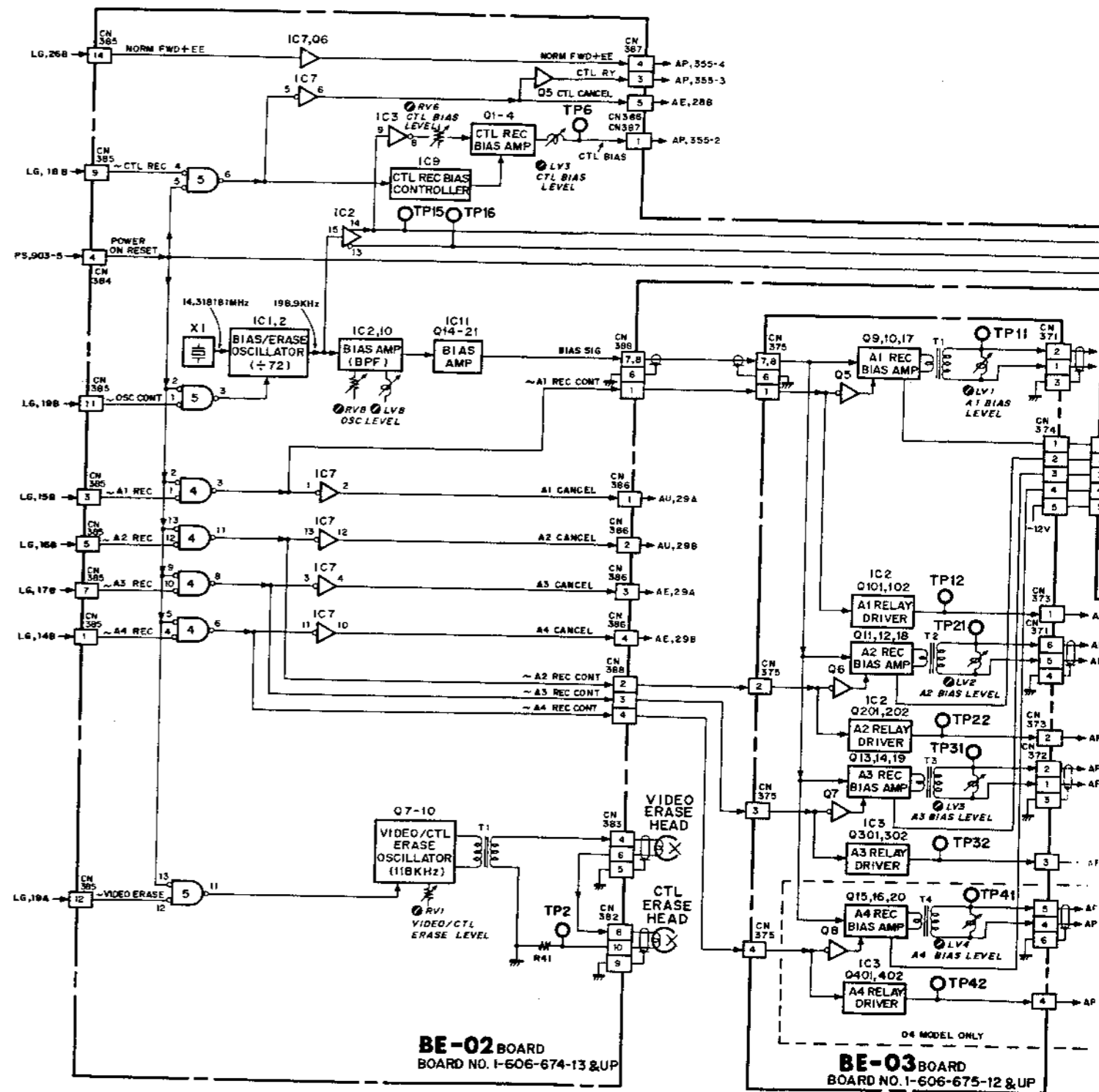
- AE-03 BOARD
- AP-06 BOARD
- LA-02 BOARD
- VR BOARD

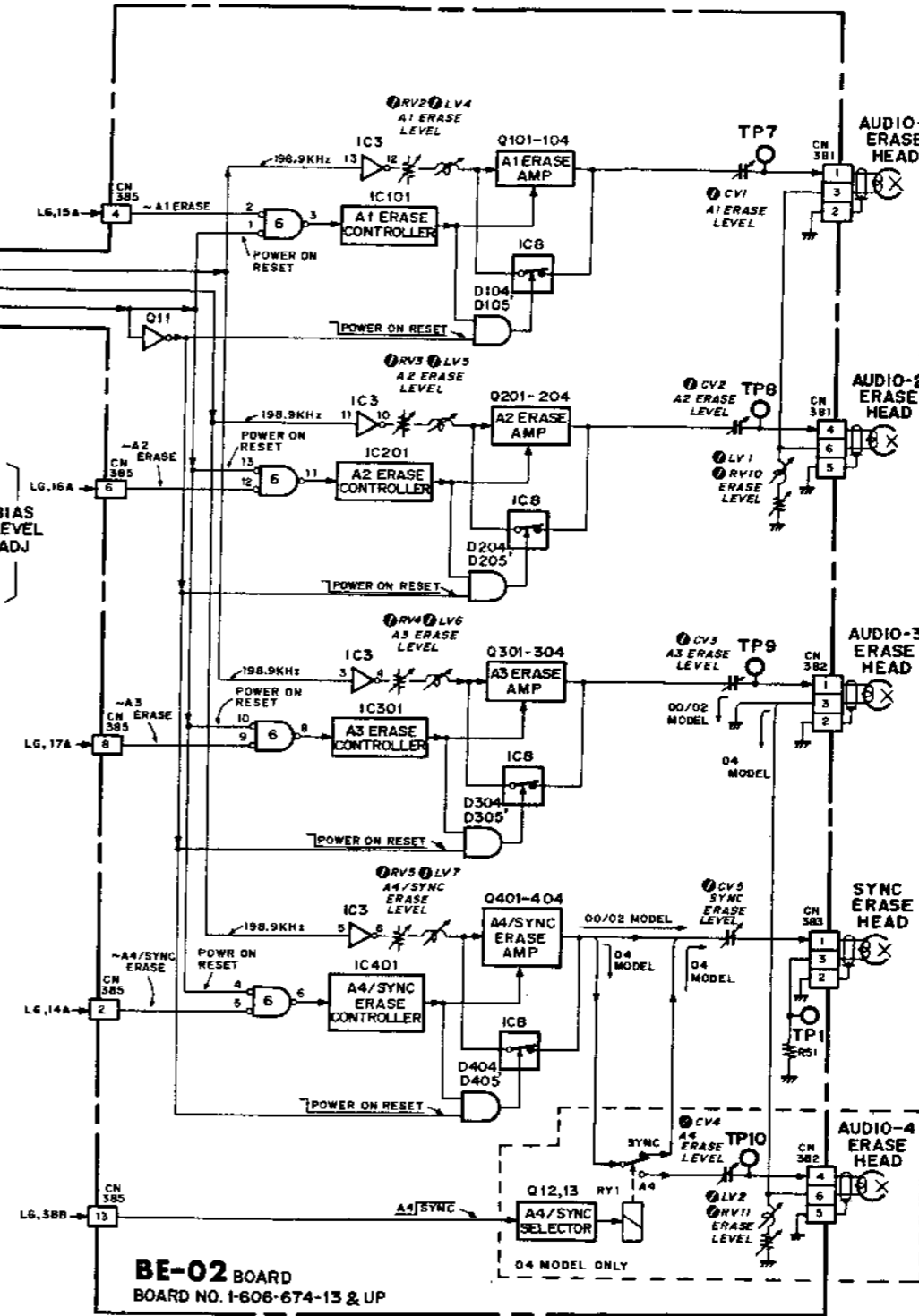
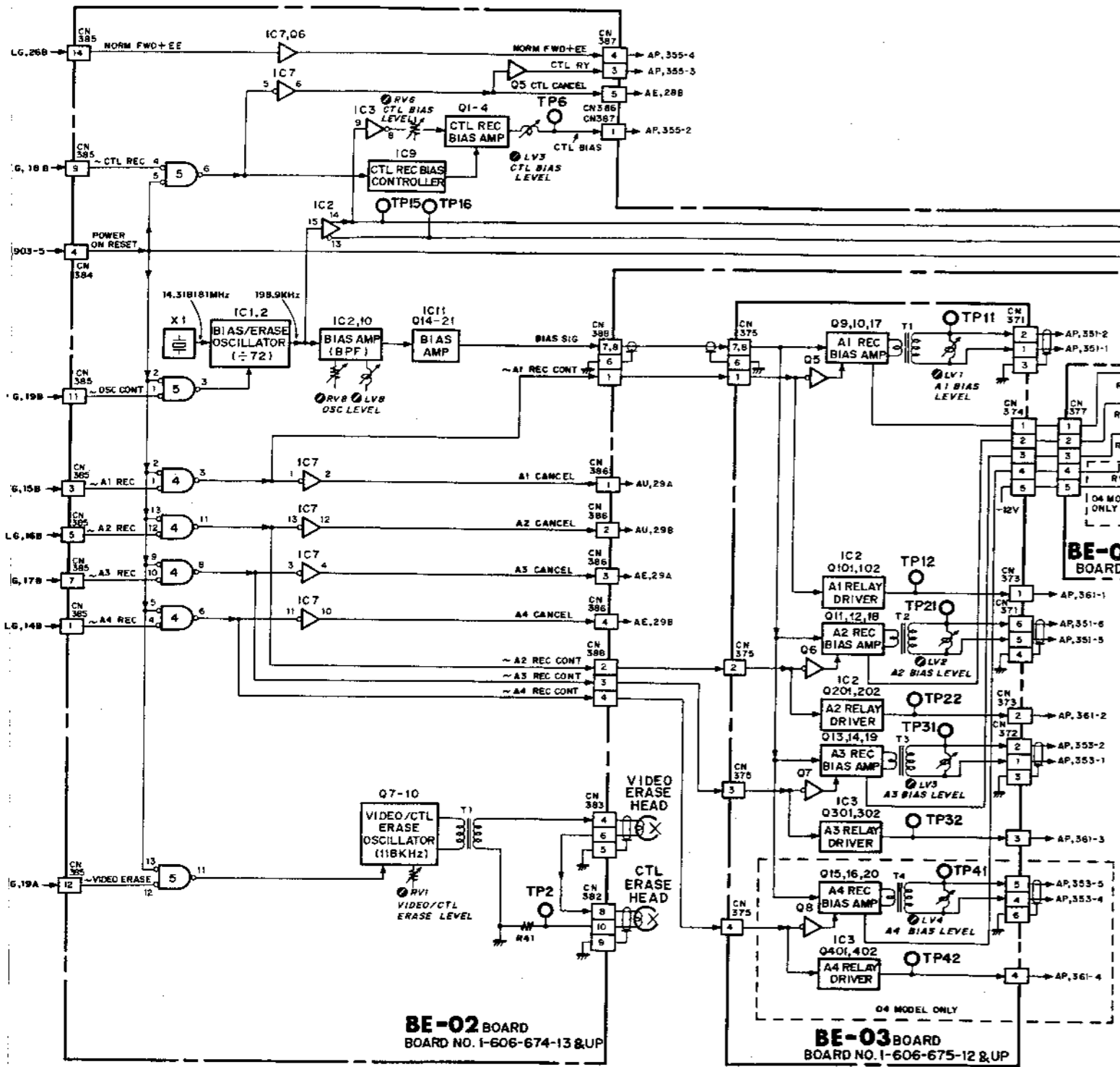




**AUDIO-3 & 4 SIGNAL
CTL REC/PB AMP
TC SELECT
BLOCK DIAGRAM (04 MODEL)**
6VH-2000PS; # 10001-

BIAS/ERASE
BE-02 BOARD
BE-03 BOARD
BE-04 BOARD



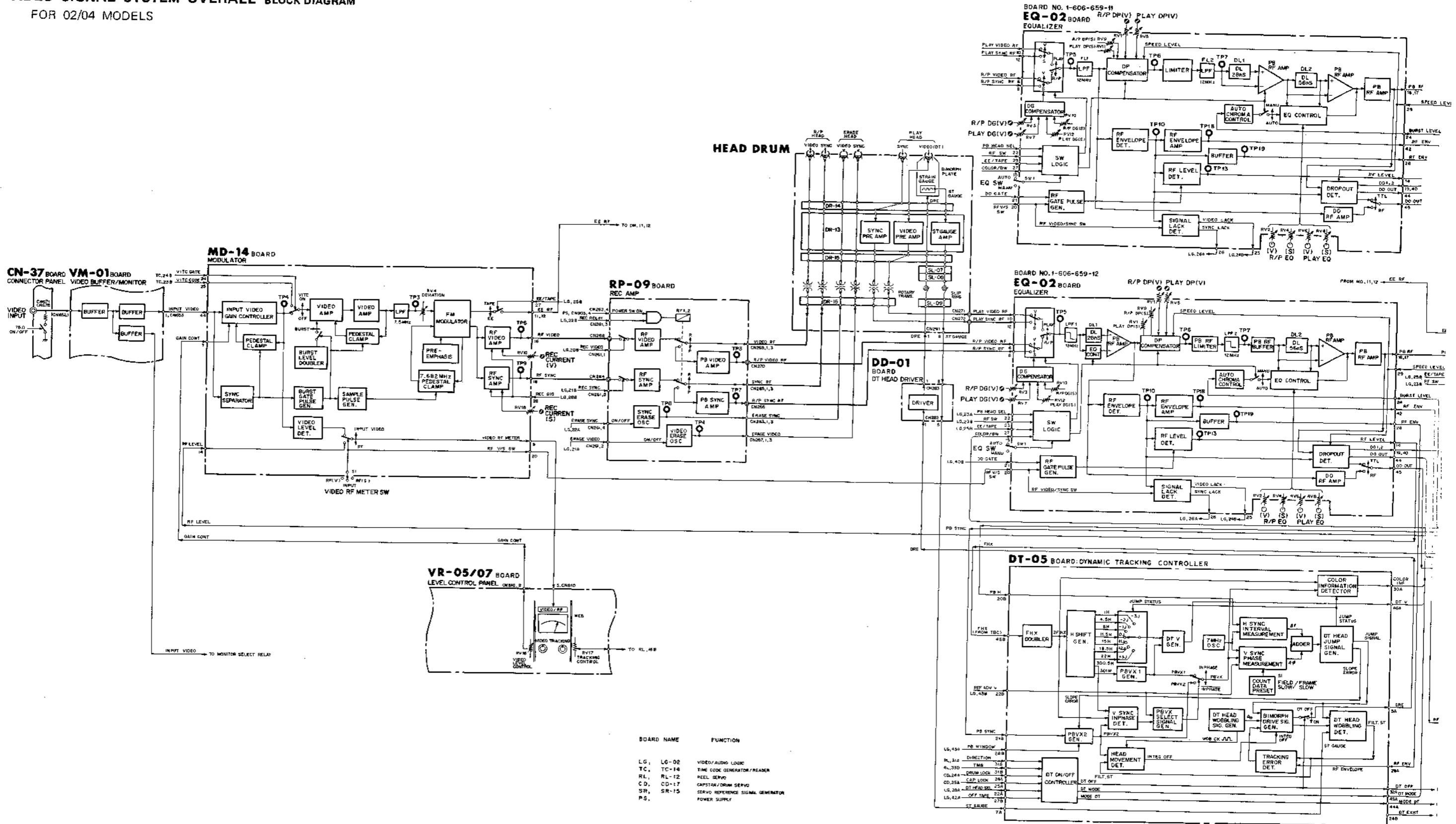


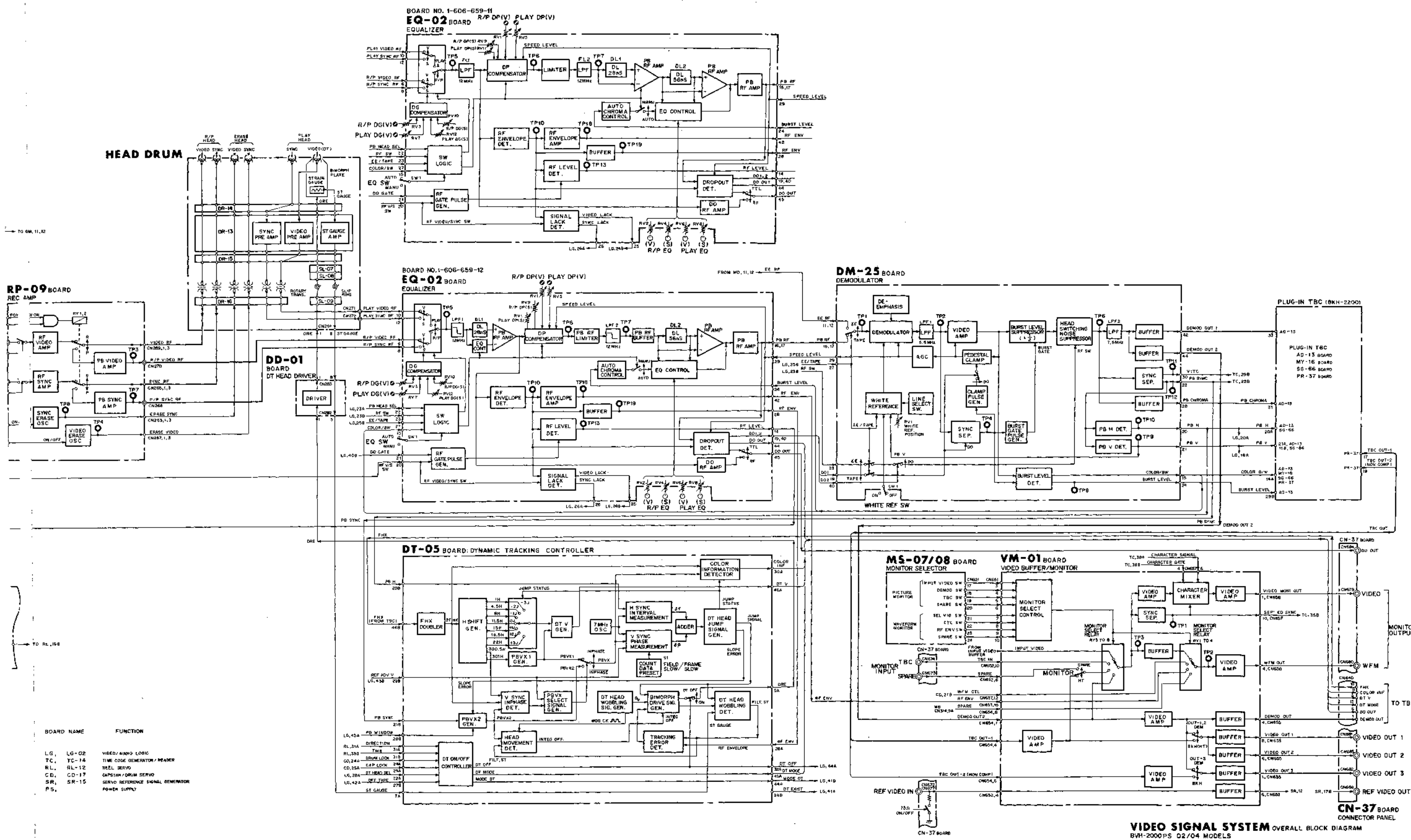
**AUDIO BIAS/ERASE AMP
VIDEO ERASE AMP**

BLOCK DIAGRAM

- | | |
|-------------------------|-------------------------|
| BVH-2000(J) ;# 10501- | BVH-2500(J) ;# 10001- |
| BVH-2000(U/C) ;# 10501- | BVH-2500(U/C) ;# 10001- |
| BVH-2000PS ;# 10301- | |
| BVH-2000PM ;# 10001- | |

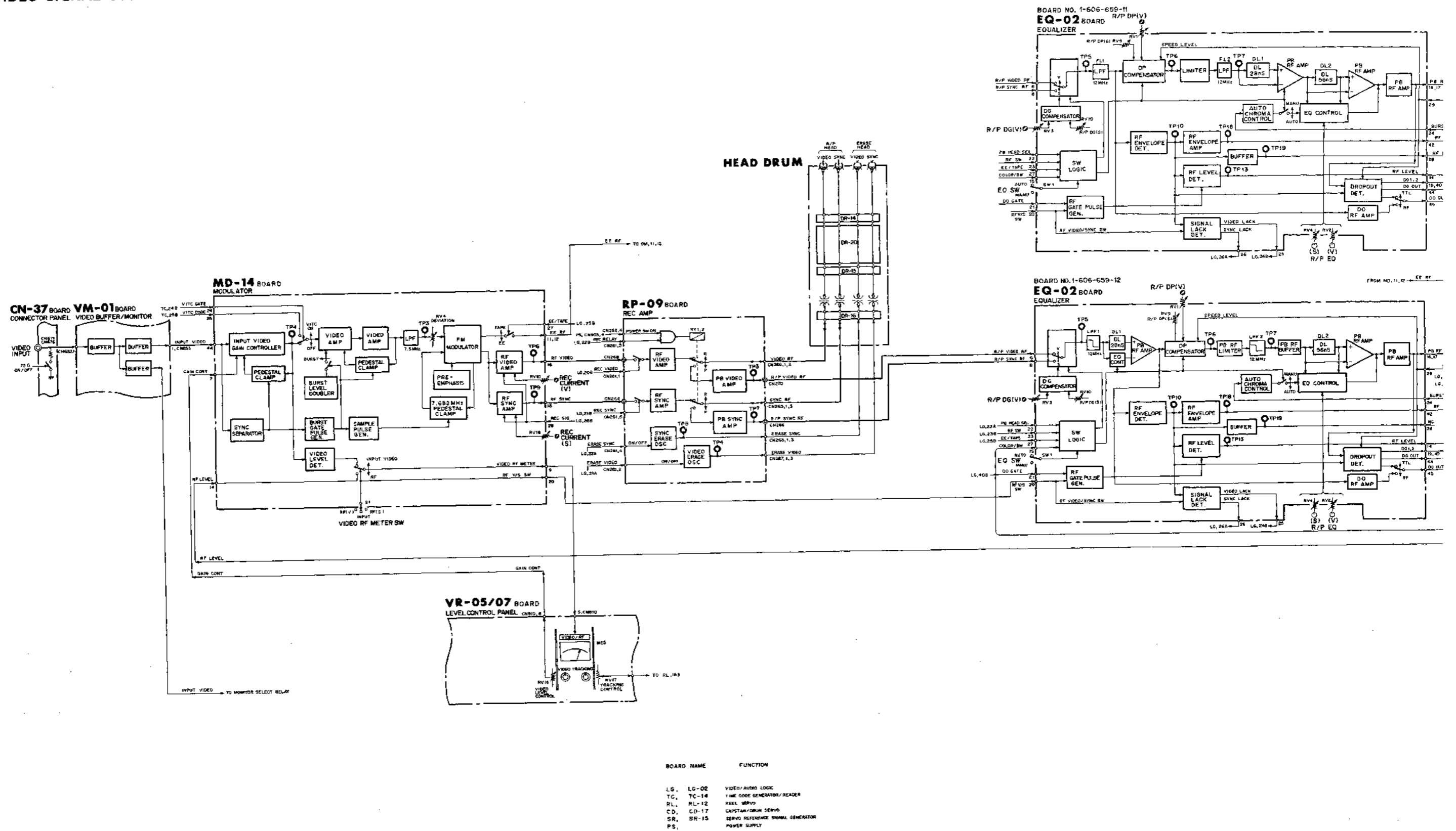
VIDEO SIGNAL SYSTEM OVERALL BLOCK DIAGRAM
FOR 02/04 MODELS



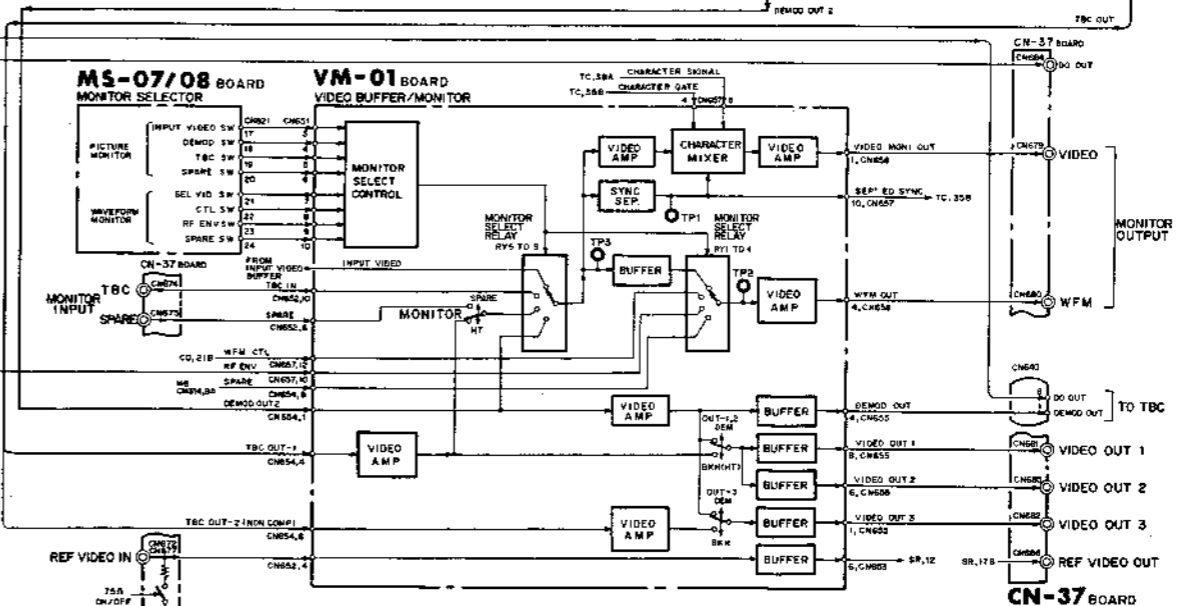
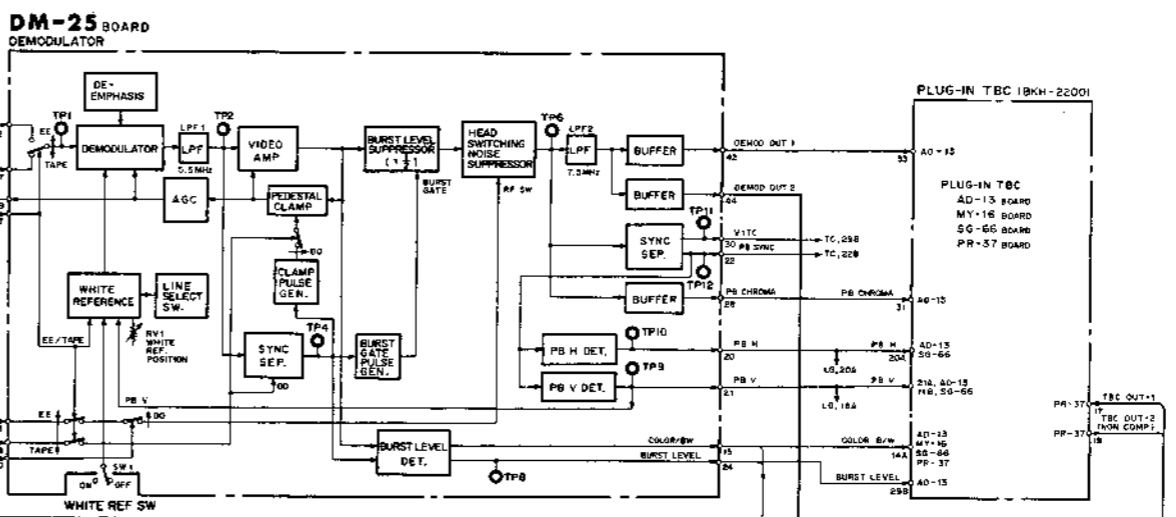
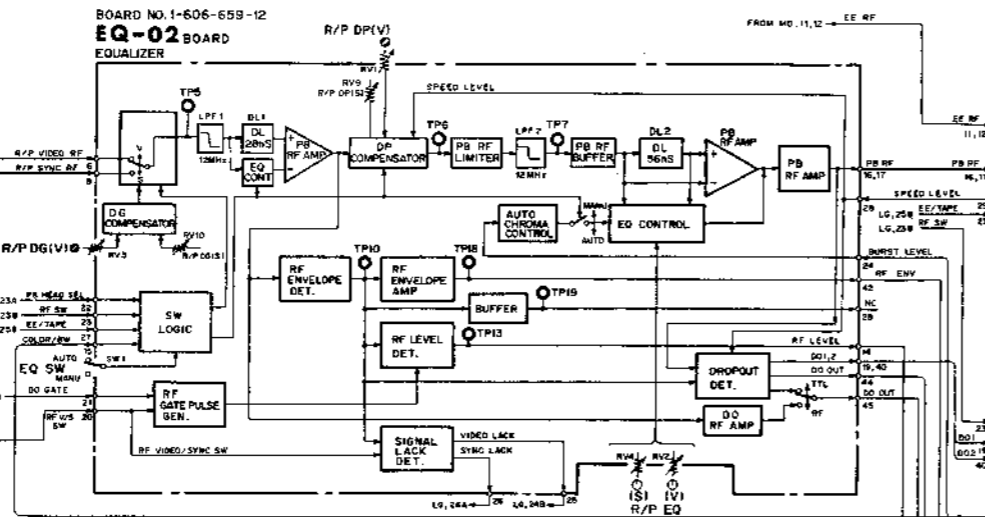
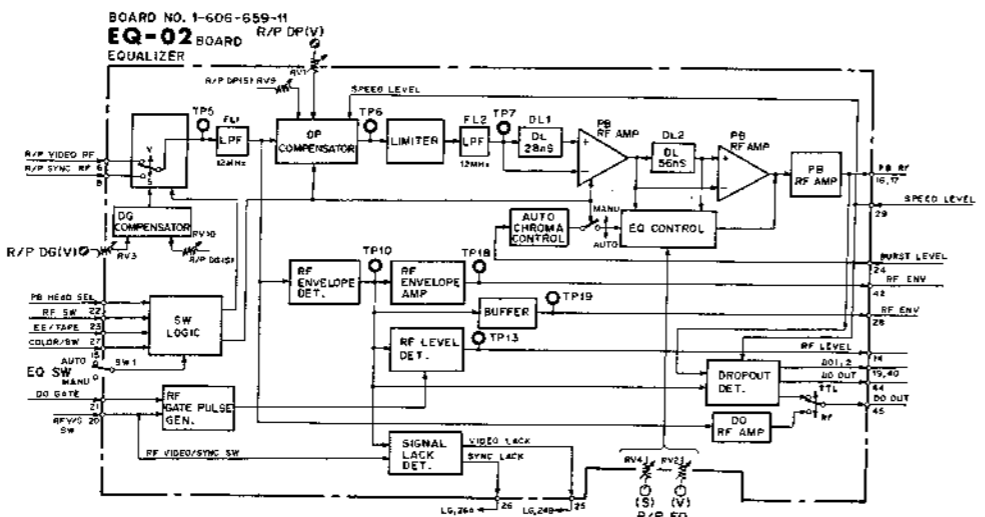
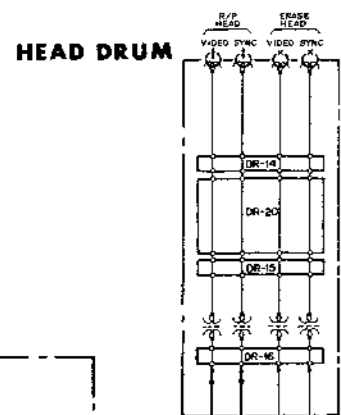


VIDEO SIGNAL SYSTEM OVERALL BLOCK DIAGRAM
BVH-2000PS 02/04 MODELS

VIDEO SIGNAL SYSTEM OVERALL BLOCK DIAGRAM; FOR 00 MODEL



HEAD DRUM

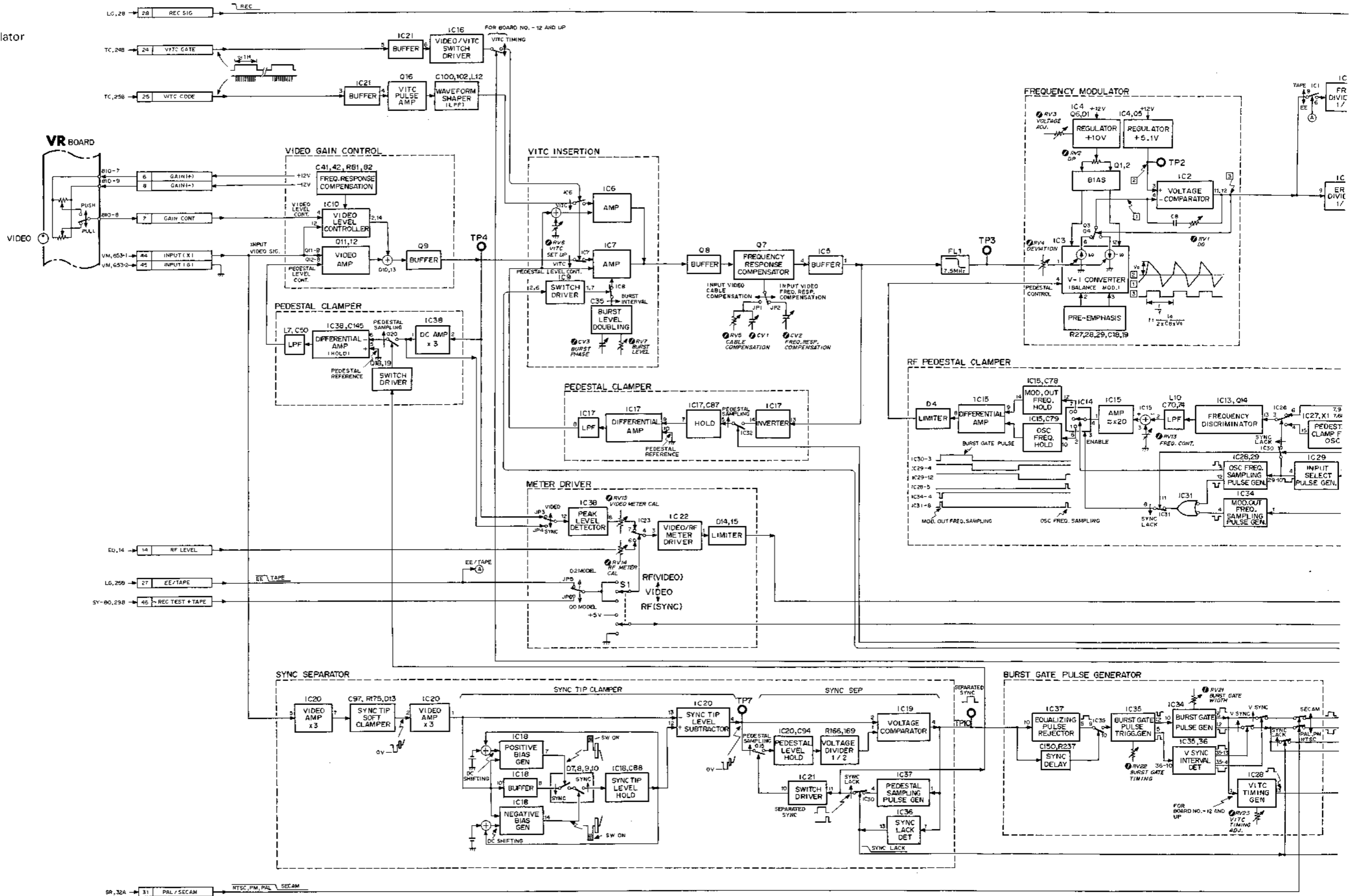


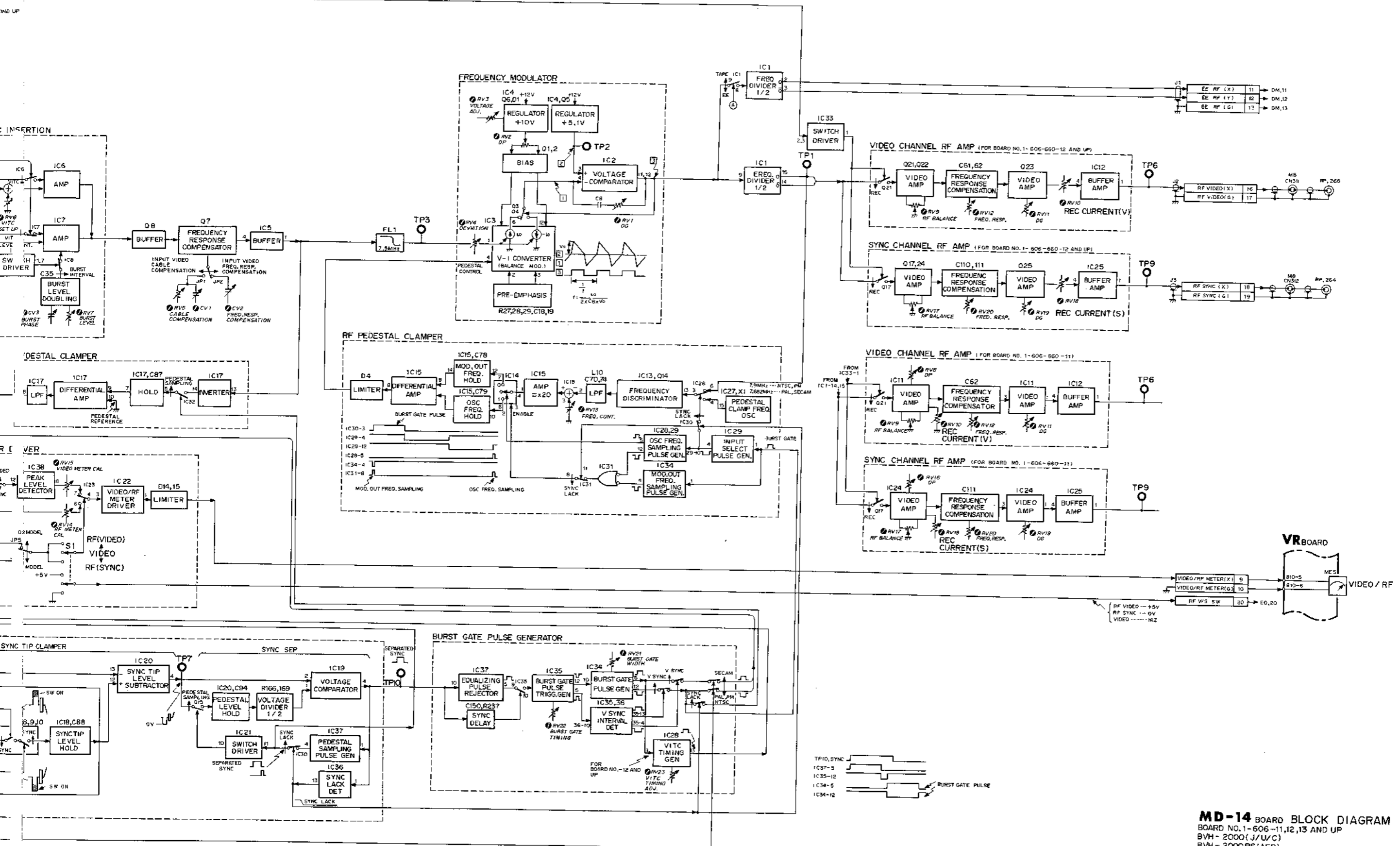
VIDEO SIGNAL SYSTEM OVERALL BLOCK DIAGRAM
BVH-2000 PS 00 MODEL

LINE
-02
-14
-12
-17
-15

FUNCTION
VIDEO/AUDIO LOGIC
TIME CODE GENERATOR/READER
REEL SERVO
CAPSTAN/DRUM SERVO
SERVO REFERENCE SIGNAL GENERATOR
POWER SUPPLY

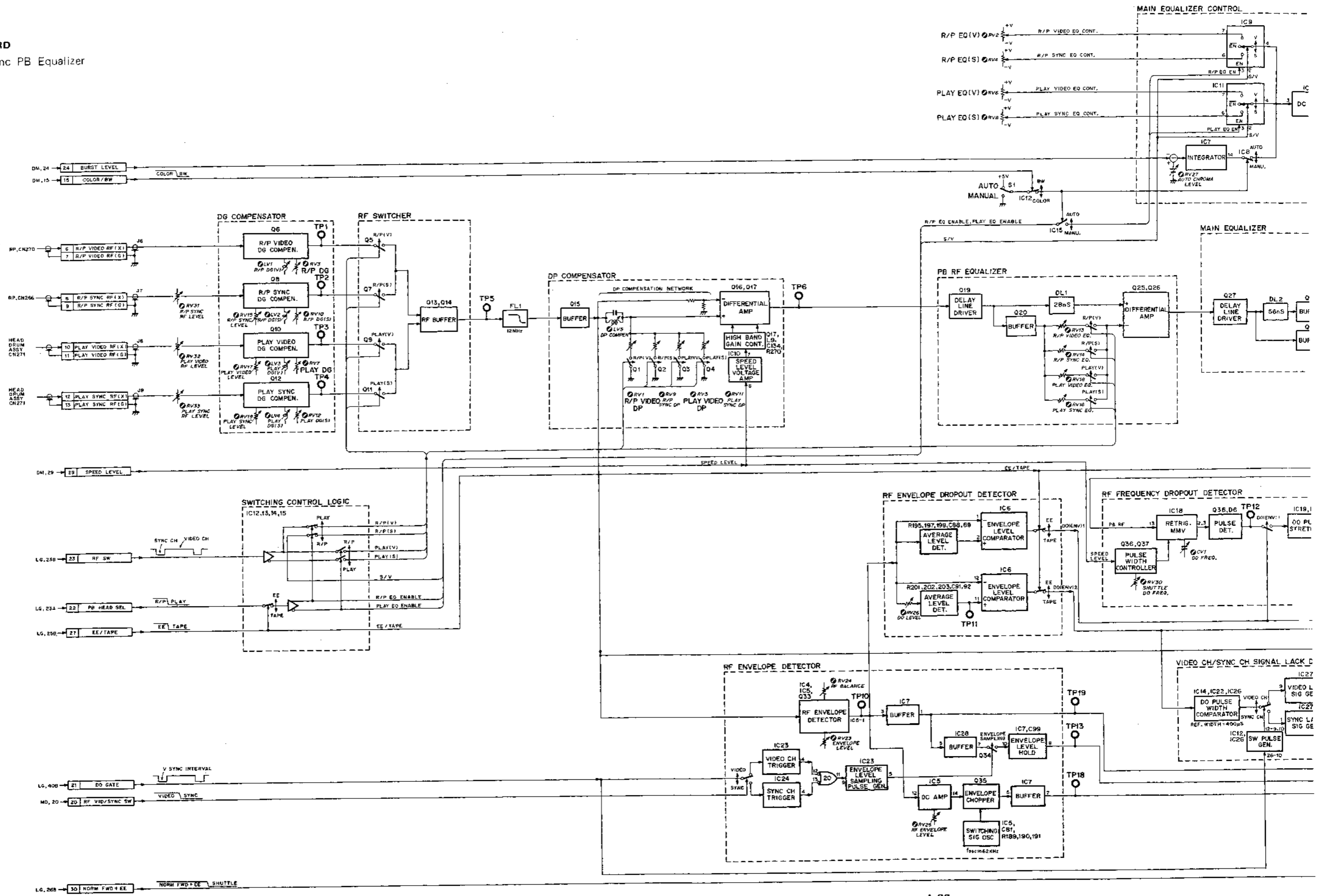
MD-14 BOARD
Video Modulator

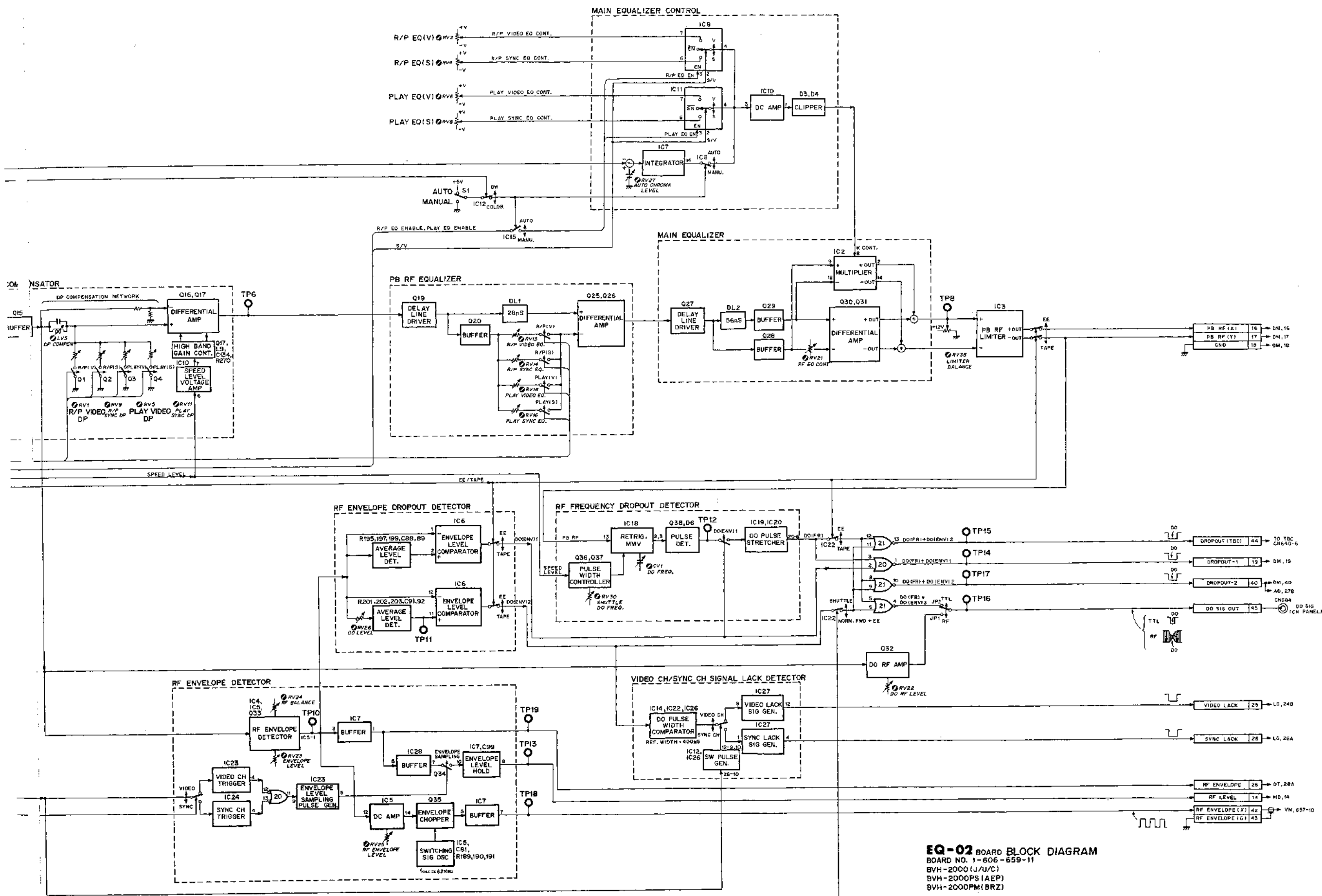




MD-14 BOARD BLOCK DIAGRAM
 BOARD NO. 1-606-11, 12, 13 AND UP
 BVH - 2000 (J/U/C)
 BVH - 2000PS (AEP)
 BVH - 2000PM (BRZ)

EQ-02 BOARD
Video/Sync PB Equalizer

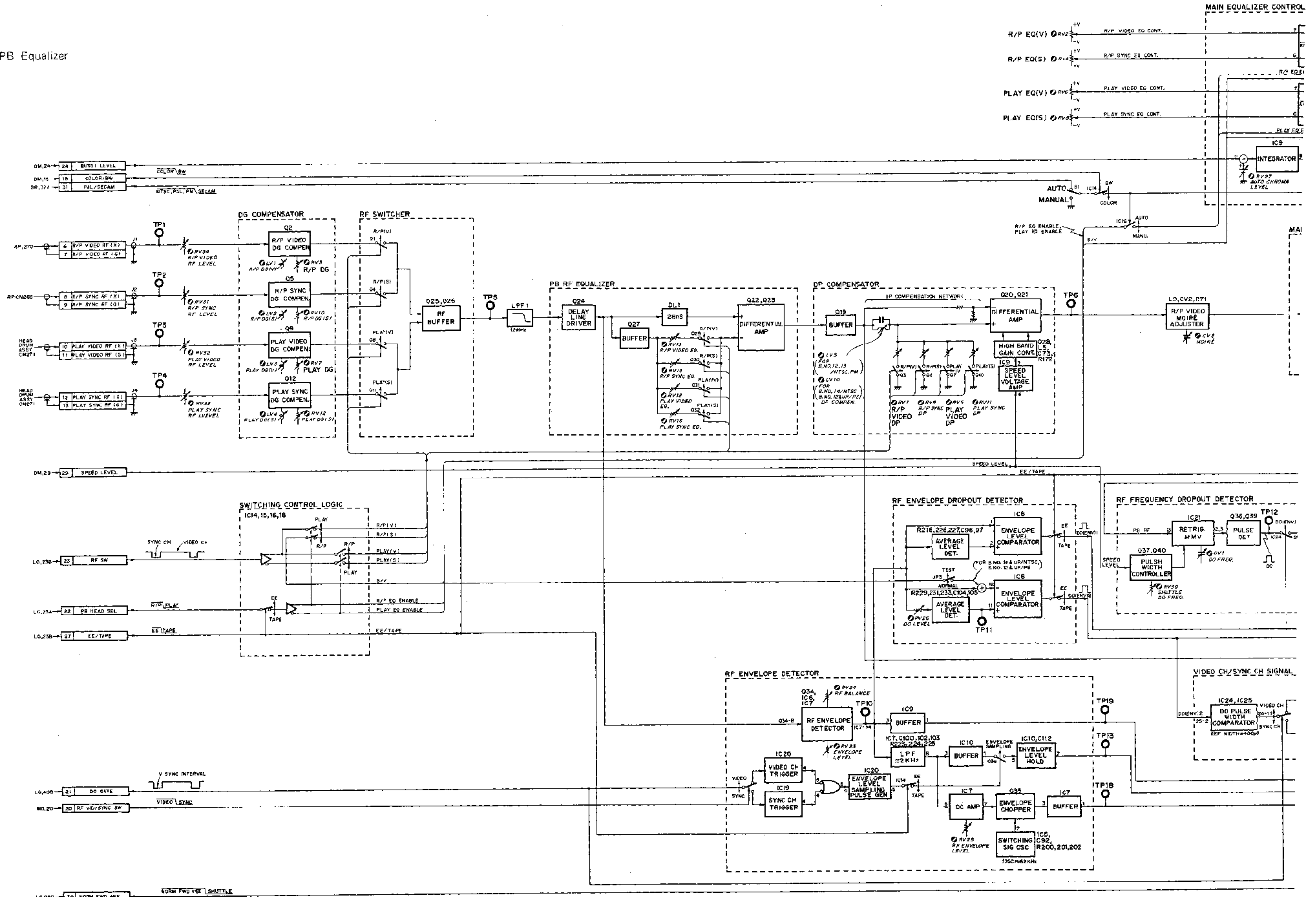


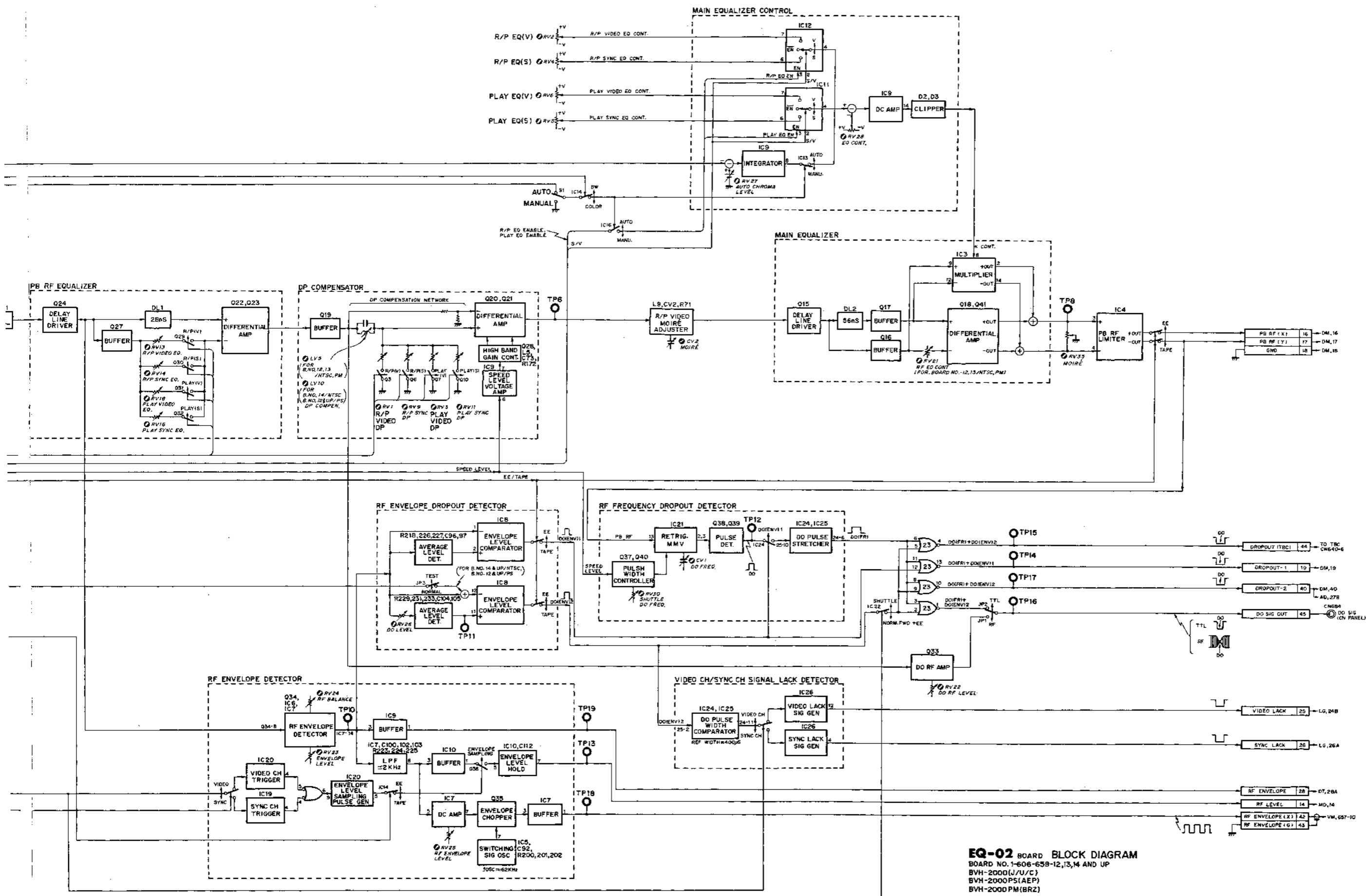


EQ-02 BOARD BLOCK DIAGRAM
 BOARD NO. 1-606-659-11
 BVH-2000 (J/U/C)
 BVH-2000PS (AEP)
 BVH-2000PM (BRZ)

EQ-02 BOARD

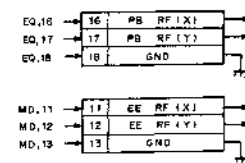
Video/Sync PB Equalizer





EQ-02 BOARD BLOCK DIAGRAM
 BOARD NO. 1-606-659-12,13,14 AND UP
 BVH-2000(J/U/C)
 BVH-2000PS(AEP)
 BVH-2000PM(BRZ)

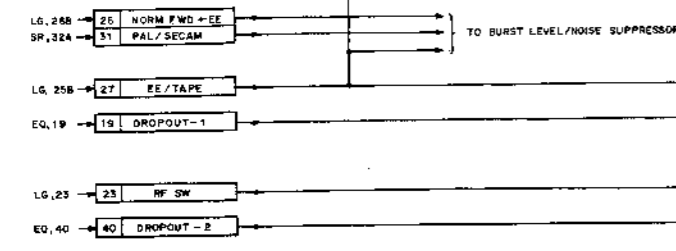
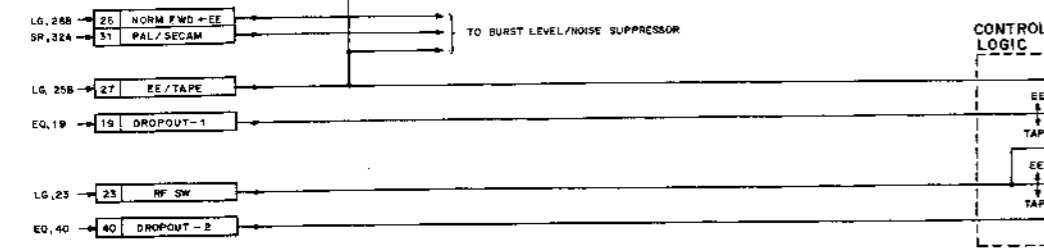
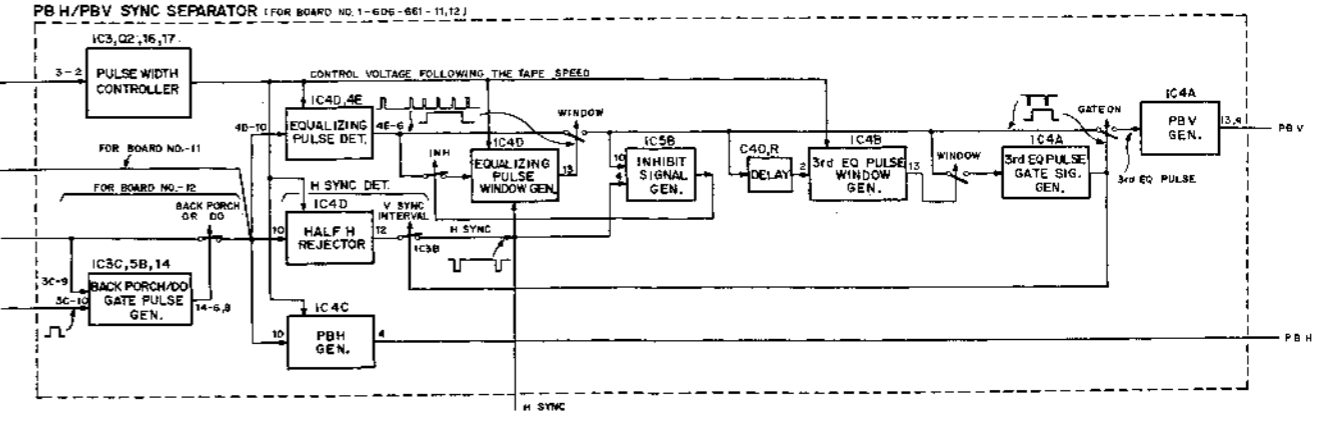
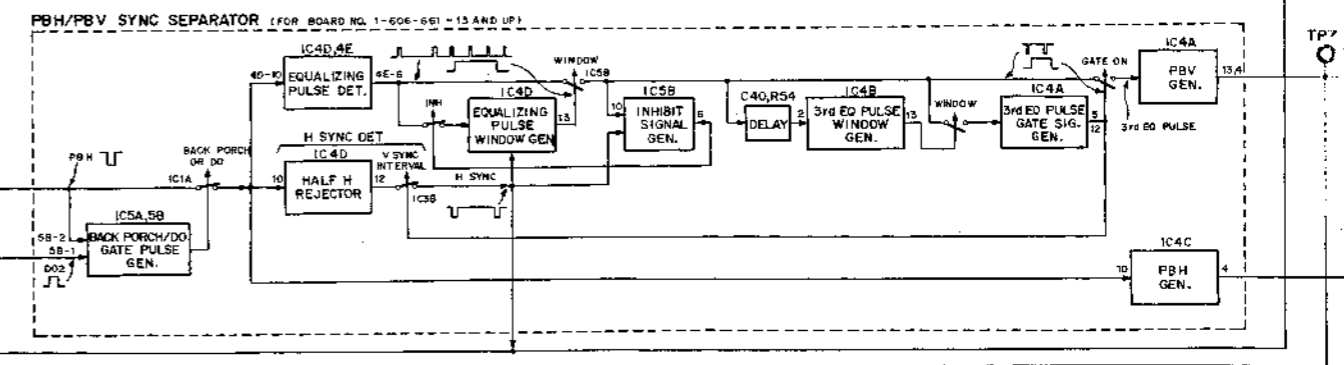
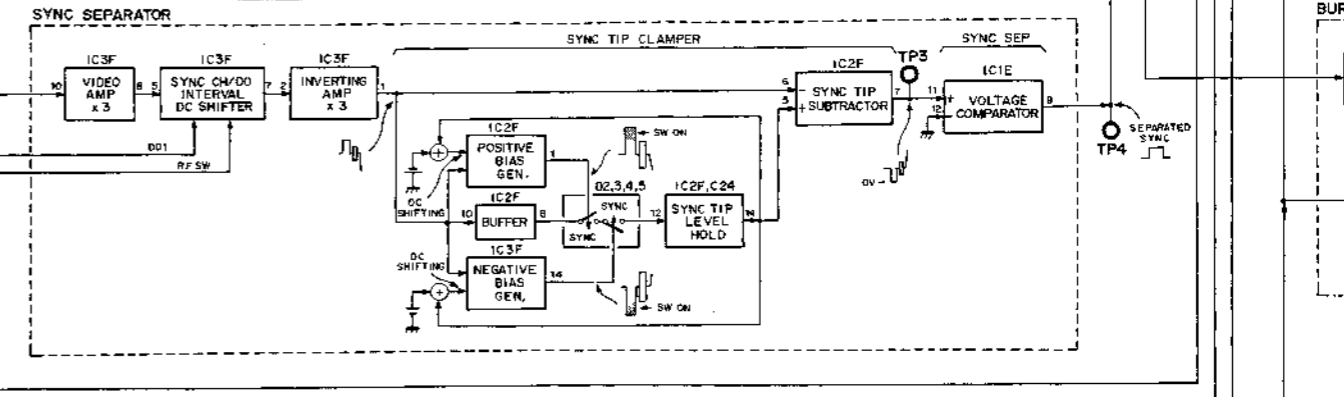
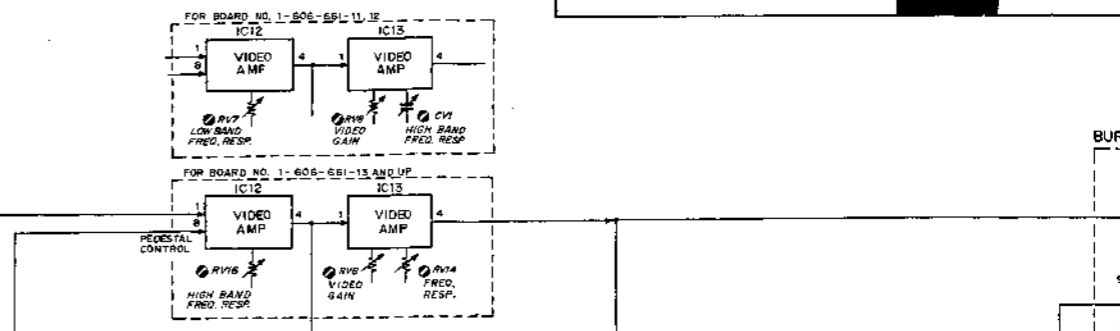
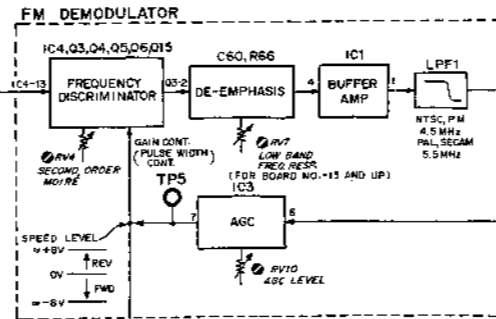
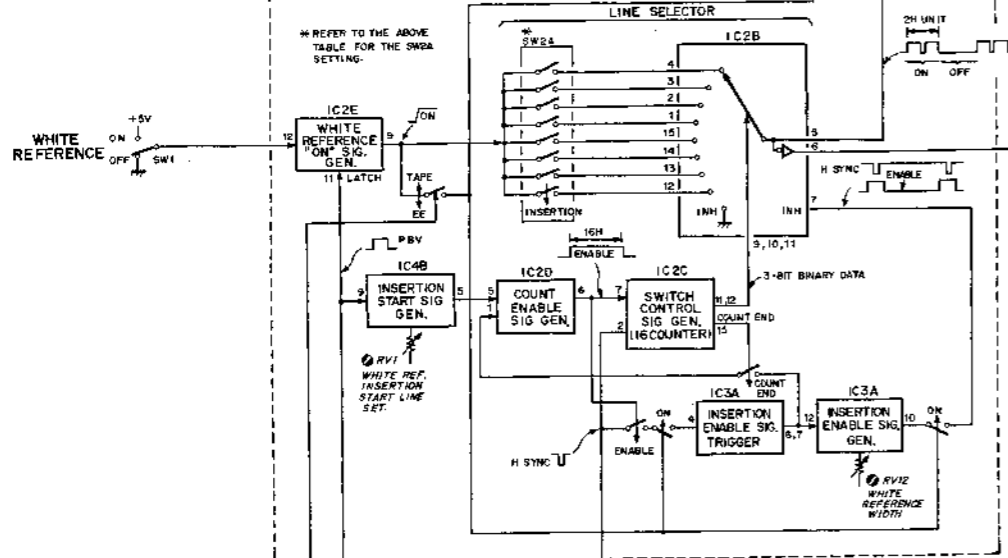
DM-25 BOARD
Video Demodulator

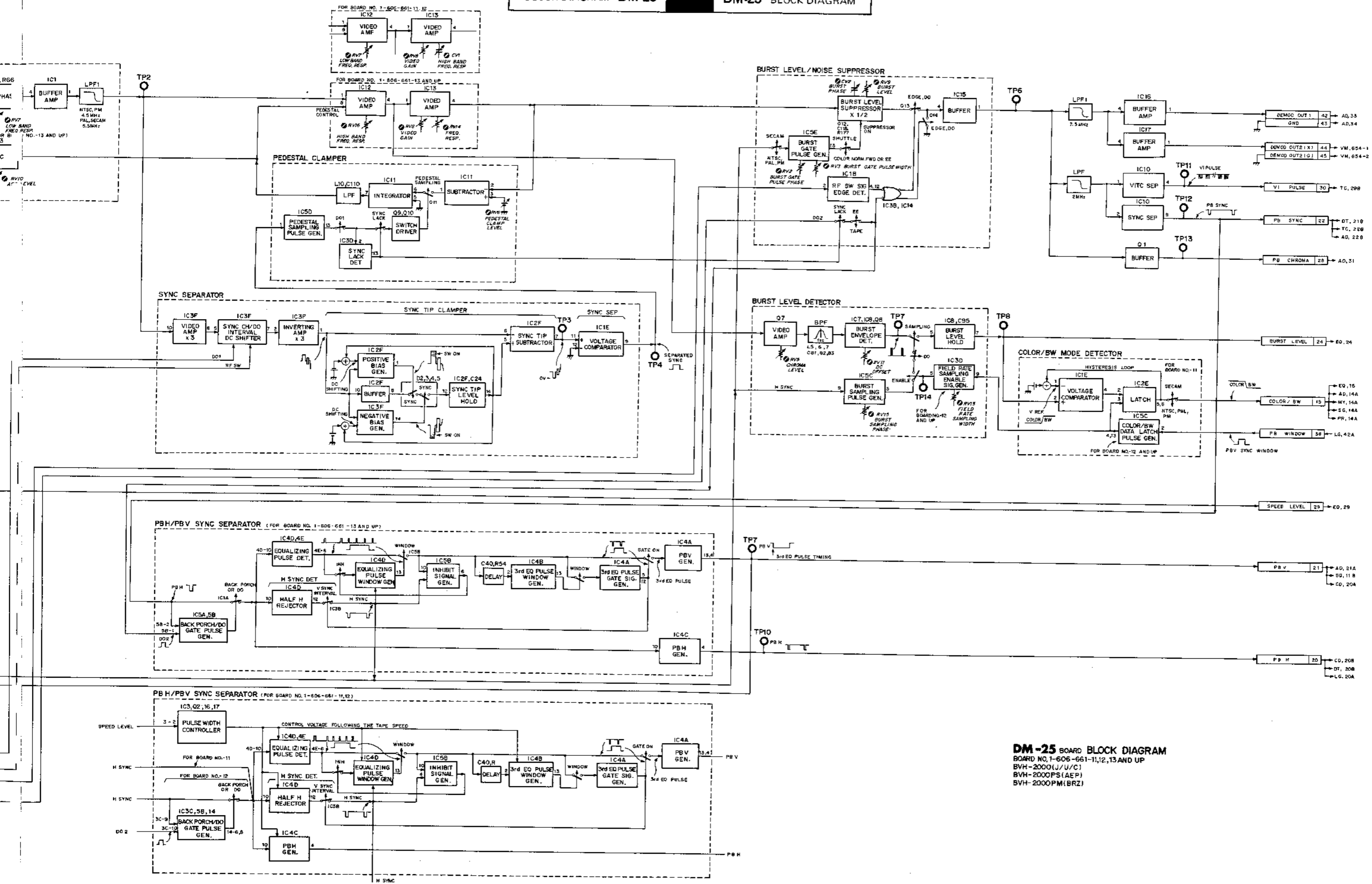


INSERTION LINE SELECTION BY SW1 AND SW2A

SW1	ON CHANNEL OF SW2A	INSERTION LINE
		NTSC PAL/SECAM PAL-N
ON	1	10,11 6,7,319,320 7,8,270,271
	2	12,13 8,9,321,322 9,10,272,273
	3	14,15 10,11,323,324 11,12,274,275
	4	16,17 12,13,325,326 13,14,276,277
	5	18,19 14,15,327,328 15,16,278,279
	6	20,21 16,17,329,330 17,18,280,281
	7	22,23 18,19,331,332 19,20,282,283
	8	24,25 20,21,333,334 21,22,284,285
OFF	Don't care	Not Inserted

WHITE REFERENCE INSERTION LINE SELECTOR

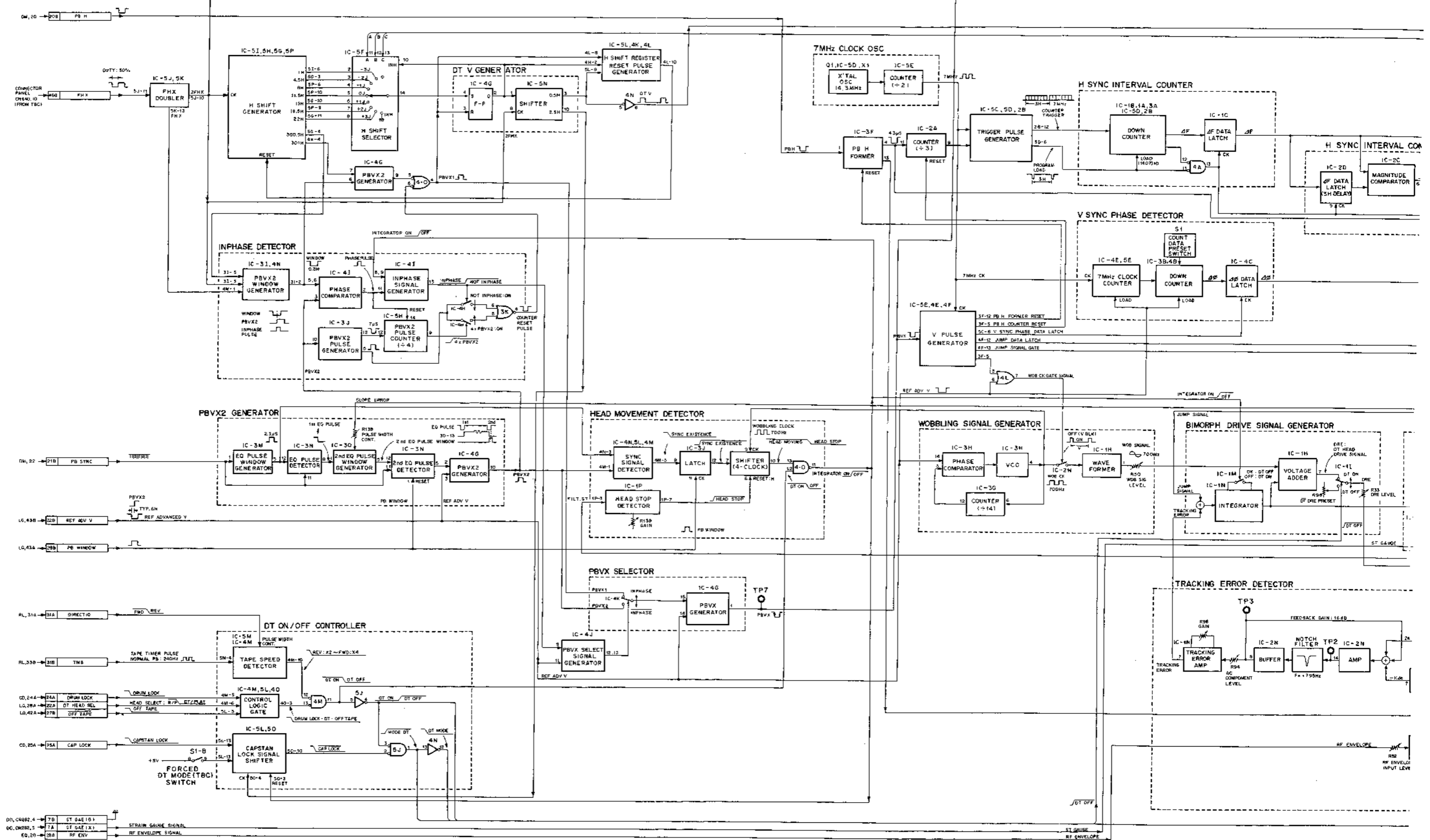


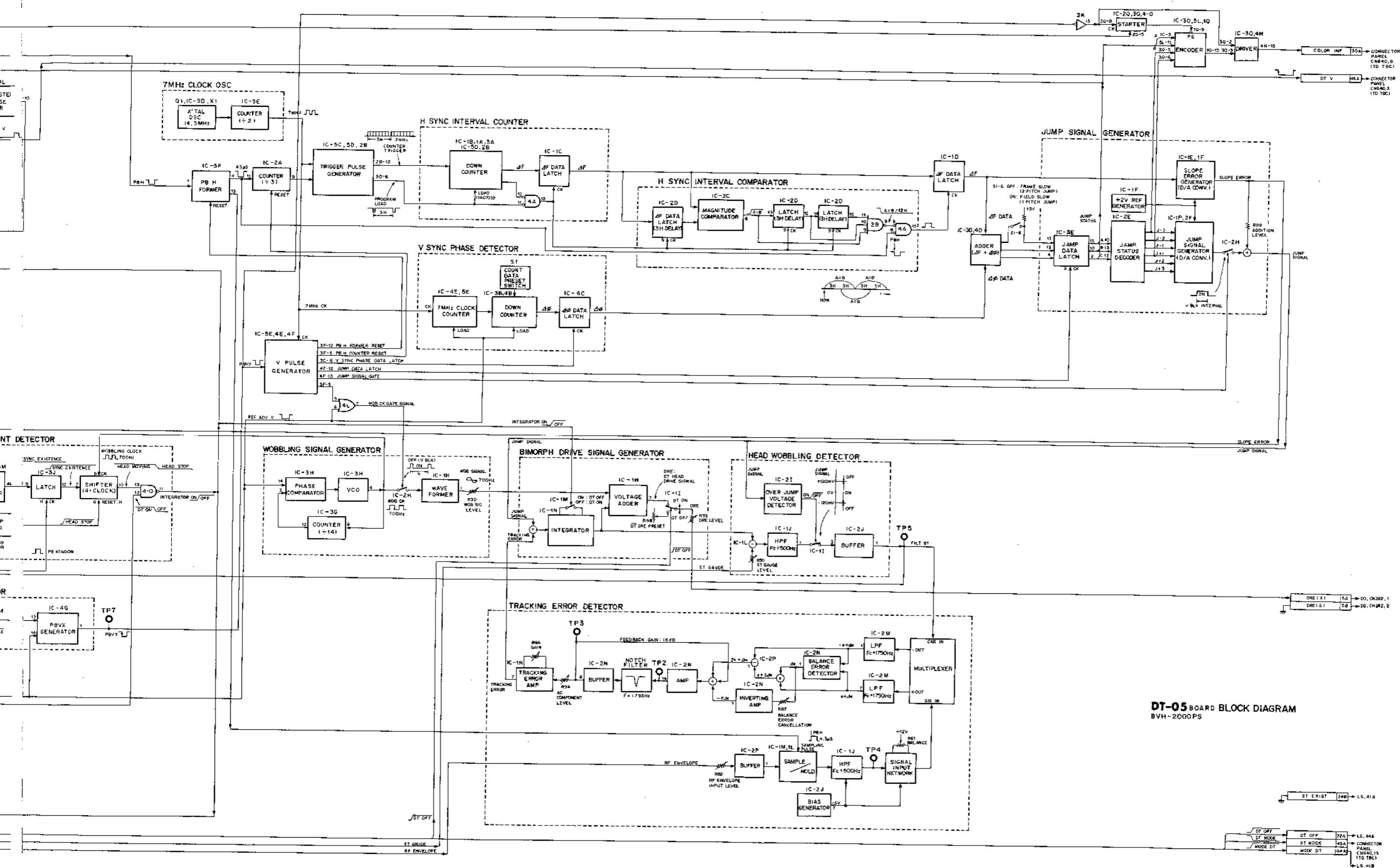


DM-25 BOARD BLOCK DIAGRAM
 BOARD NO. 1-606-661-11,12,13 AND UP
 BVH-2000(U/U/C)
 BVH-2000PS(AEP)
 BVH-2000PM(BRZ)

DT-05 BOARD; FOR 02/04 MODEL

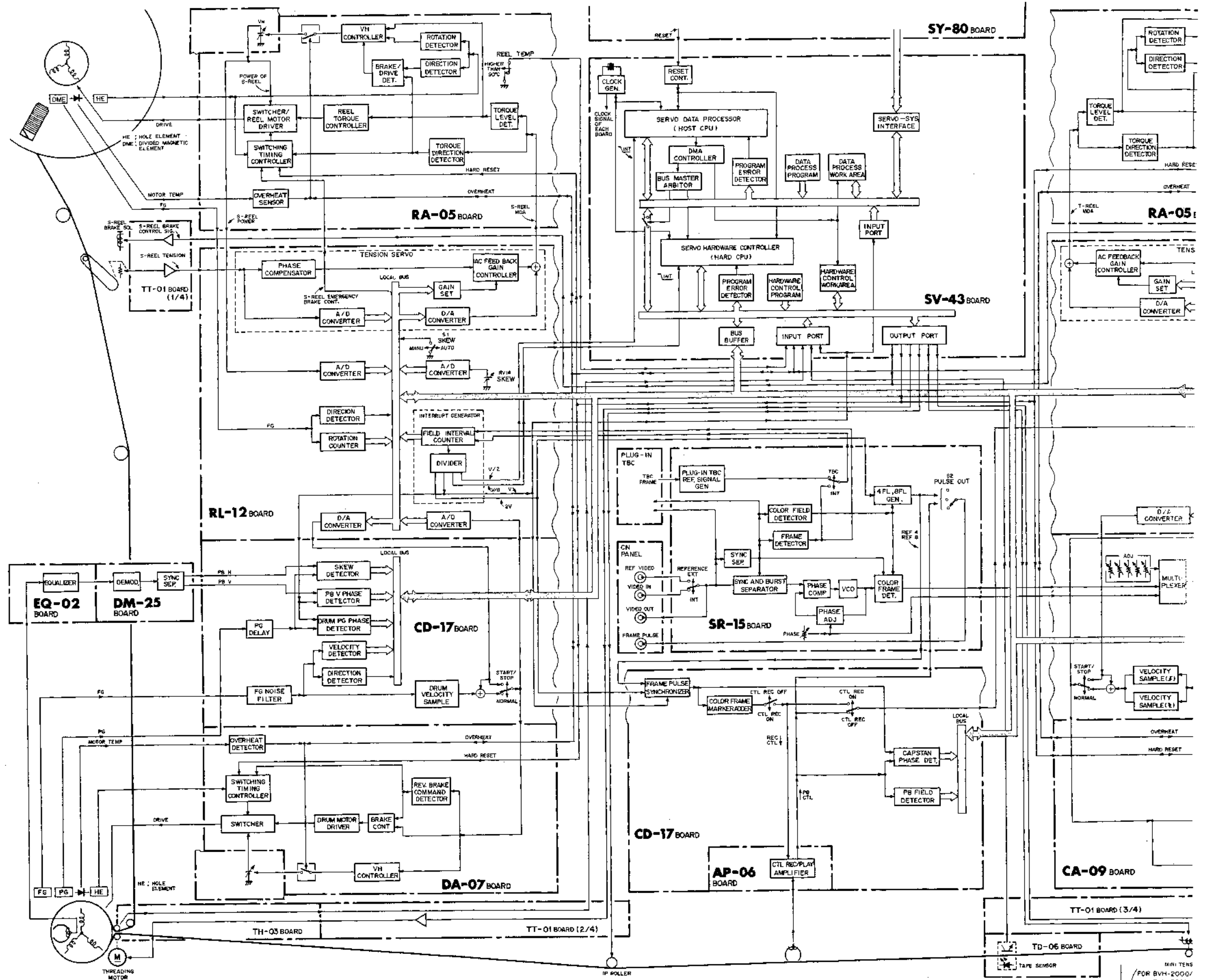
DT Control



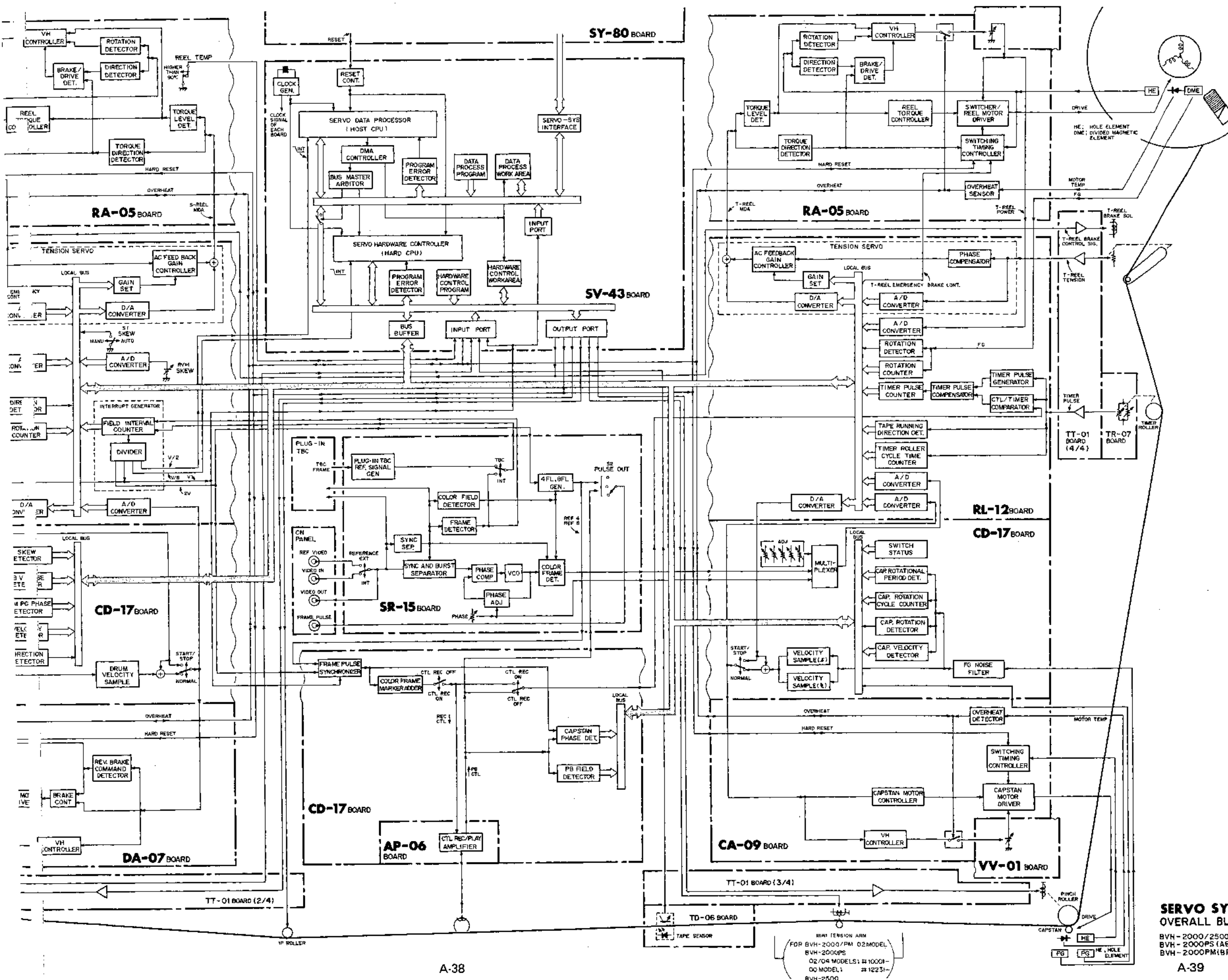


DT-05 BOARD BLOCK DIAGRAM BVH-2000PS

SERVO SYSTEM OVERALL BLOCK DIAGRAM



MINI TENS
 FOR BVH-2000/
 BVH-200GP
 02/04 MOD
 00 MODEL:
 BVH-2500

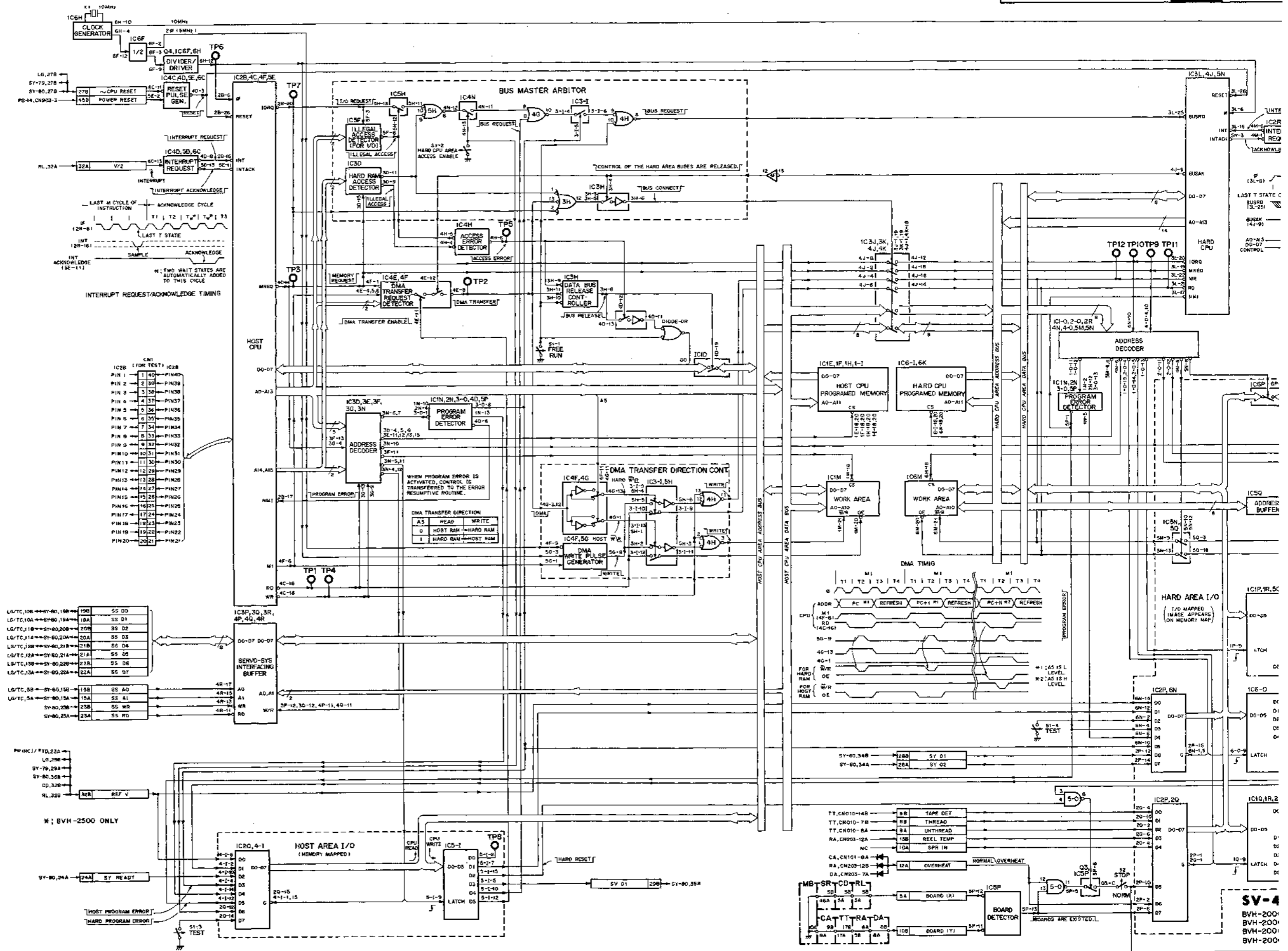


MINI TENSION ARM
 FOR BVH-2000/PM 02 MODEL
 BVH-2000PS
 02/04 MODELS: #10001-
 00 MODEL: #12231-
 BVH-2500

SERVO SYSTEM OVERALL BLOCK DIAGRAM

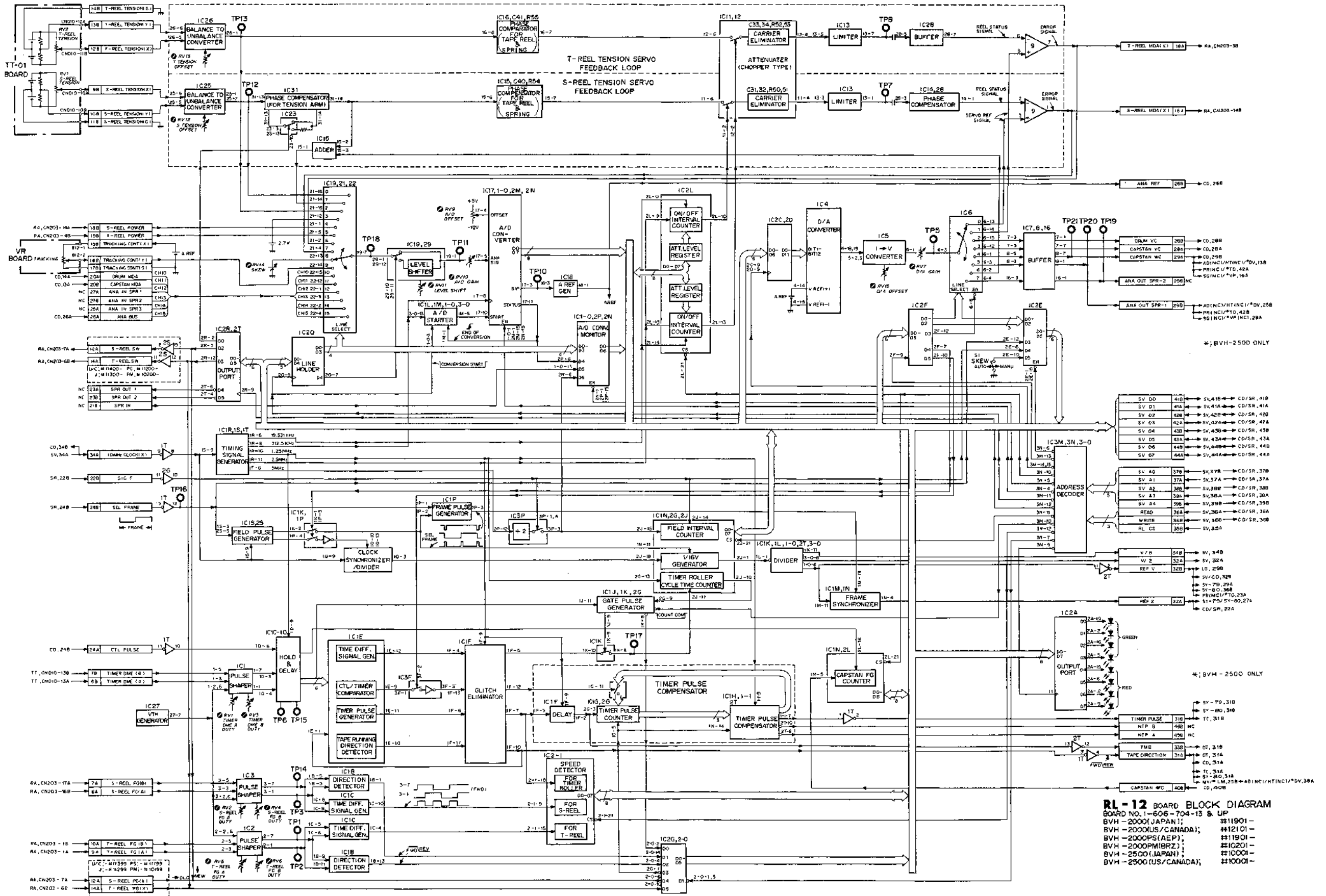
BVN-2000/2500(JAPAN,US/CANADA)
 BVH-2000PS(AEP)
 BVH-2000PM(BRZ)

SV-43 BOARD
Servo CPU



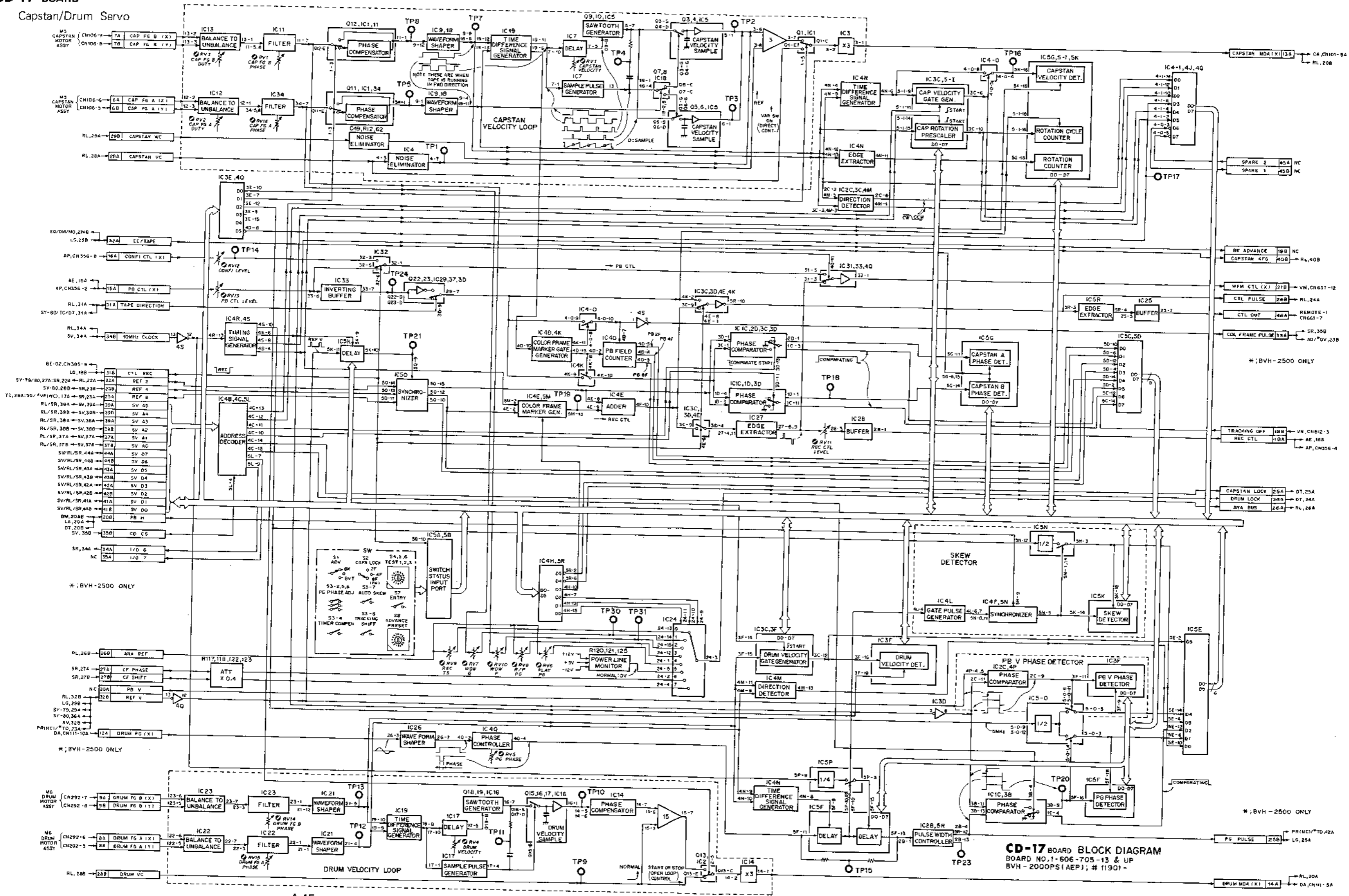
SV-4
BVH-200
BVH-200
BVH-200
BVH-200

RL-12 BOARD
Reel Servo



CD-17 BOARD

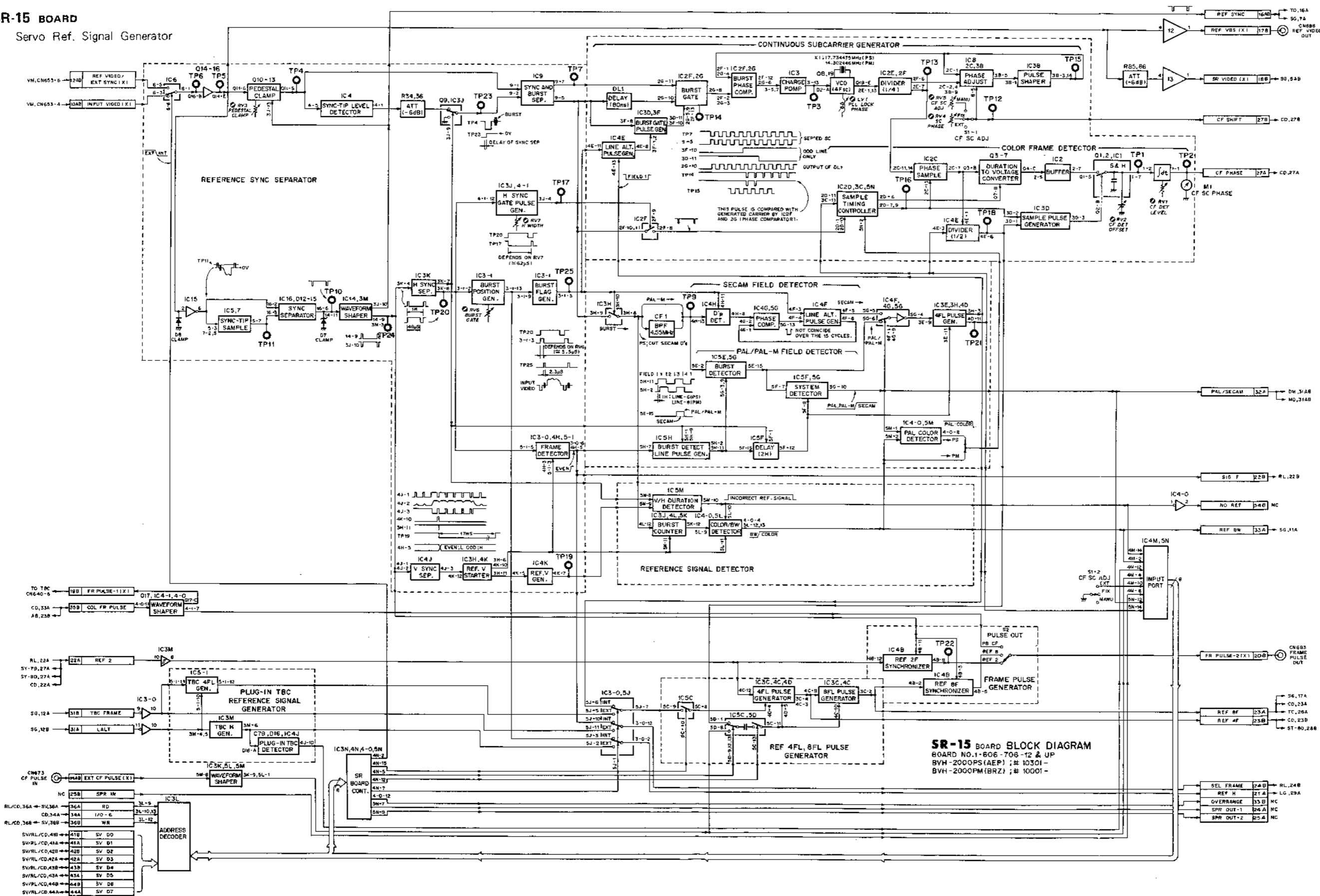
Capstan/Drum Servo



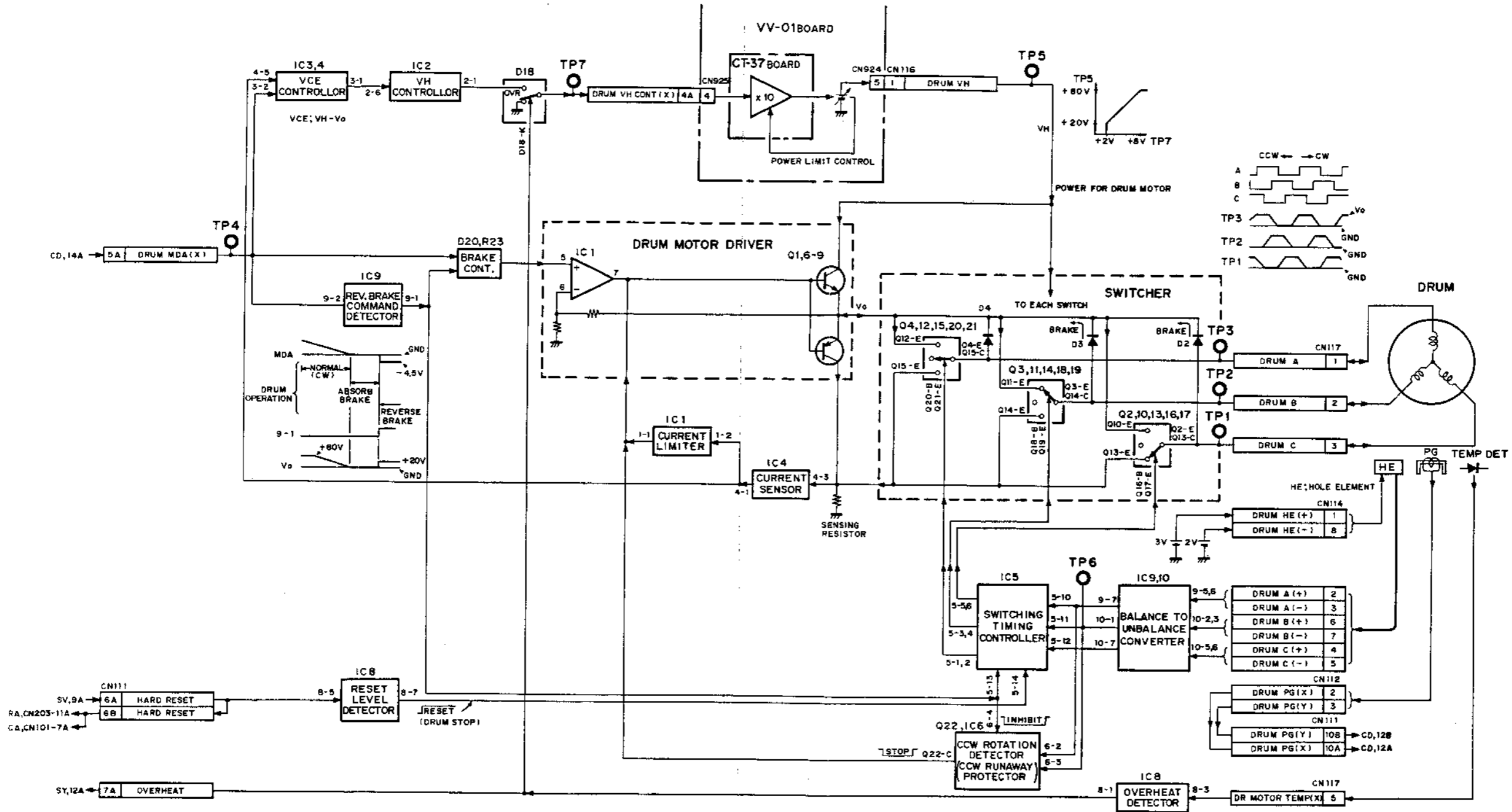
CD-17 BOARD BLOCK DIAGRAM BOARD NO. 1-606-705-13 & UP BVH - 2000PS(AEP); # 11901 -

SR-15 BOARD

Servo Ref. Signal Generator

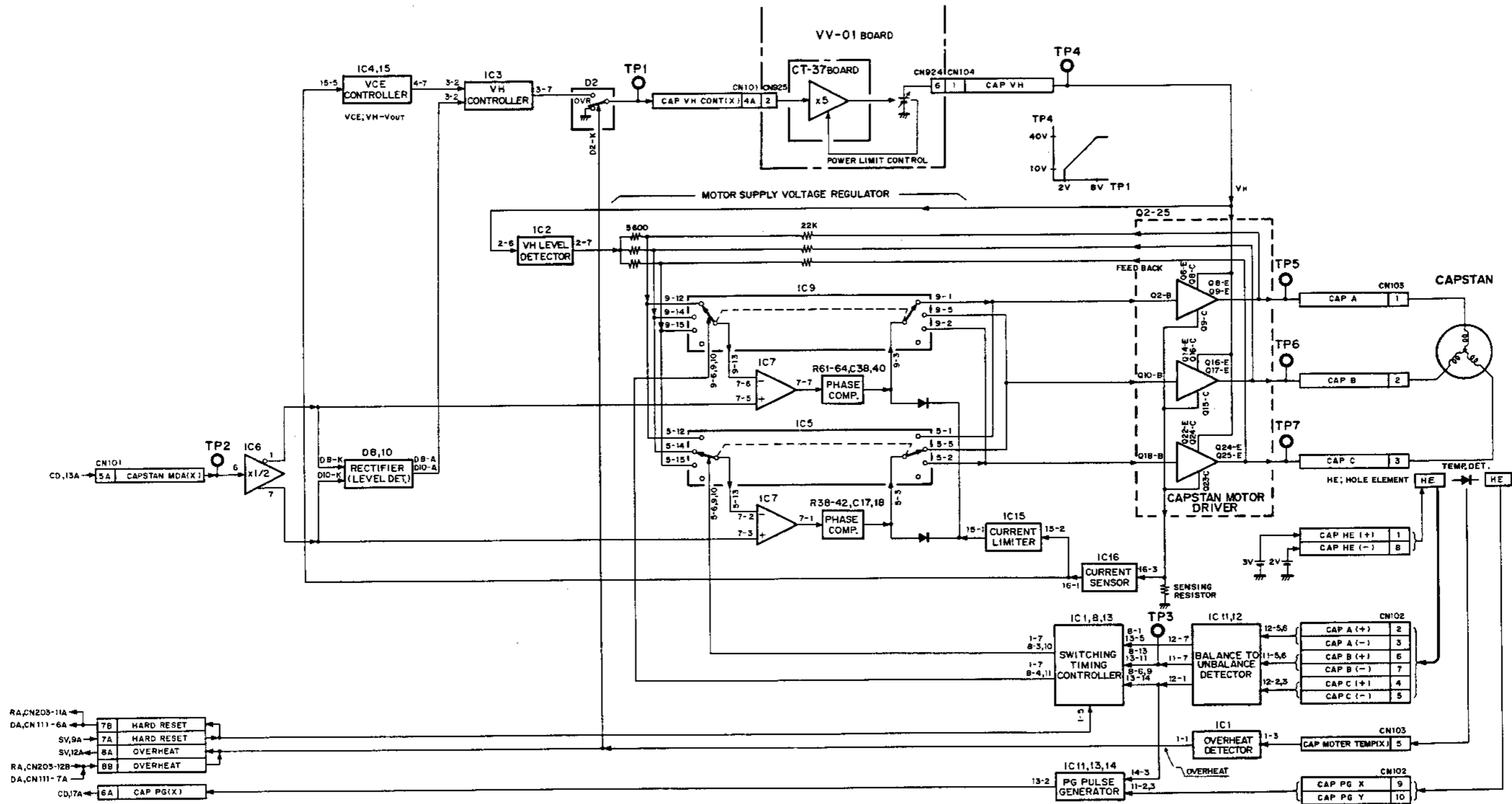


DA-07 BOARD
Drum Motor Driver



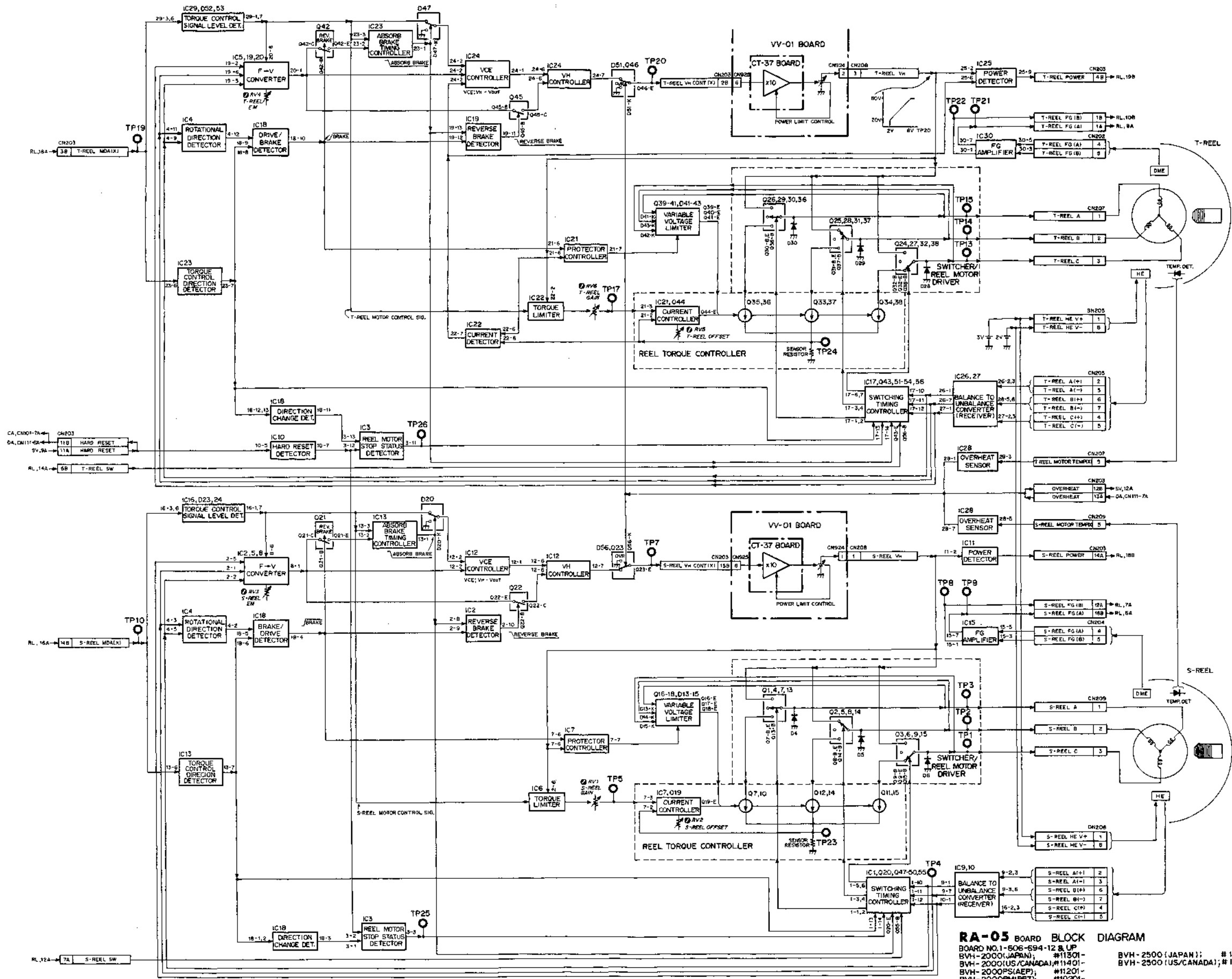
DA-07 BOARD BLOCK DIAGRAM
 BVH-2000(JAPAN)
 BVH-2000(US/CANADA)
 BVH-2000PS(AEP)
 BVH-2000PM(BRZ)
 BVH-2500(JAPAN)
 BVH-2500(US/CANADA)

CA-09 BOARD
Capstan Motor Driver



CA-09 BOARD BLOCK DIAGRAM
 BVH-2000(JAPAN)
 BVH-2000(US/CANADA)
 BVH-2000PS(AEP)
 BVH-2000PM(BRZ)
 BVH-2500(JAPAN)
 BVH-2500(US/CANADA)

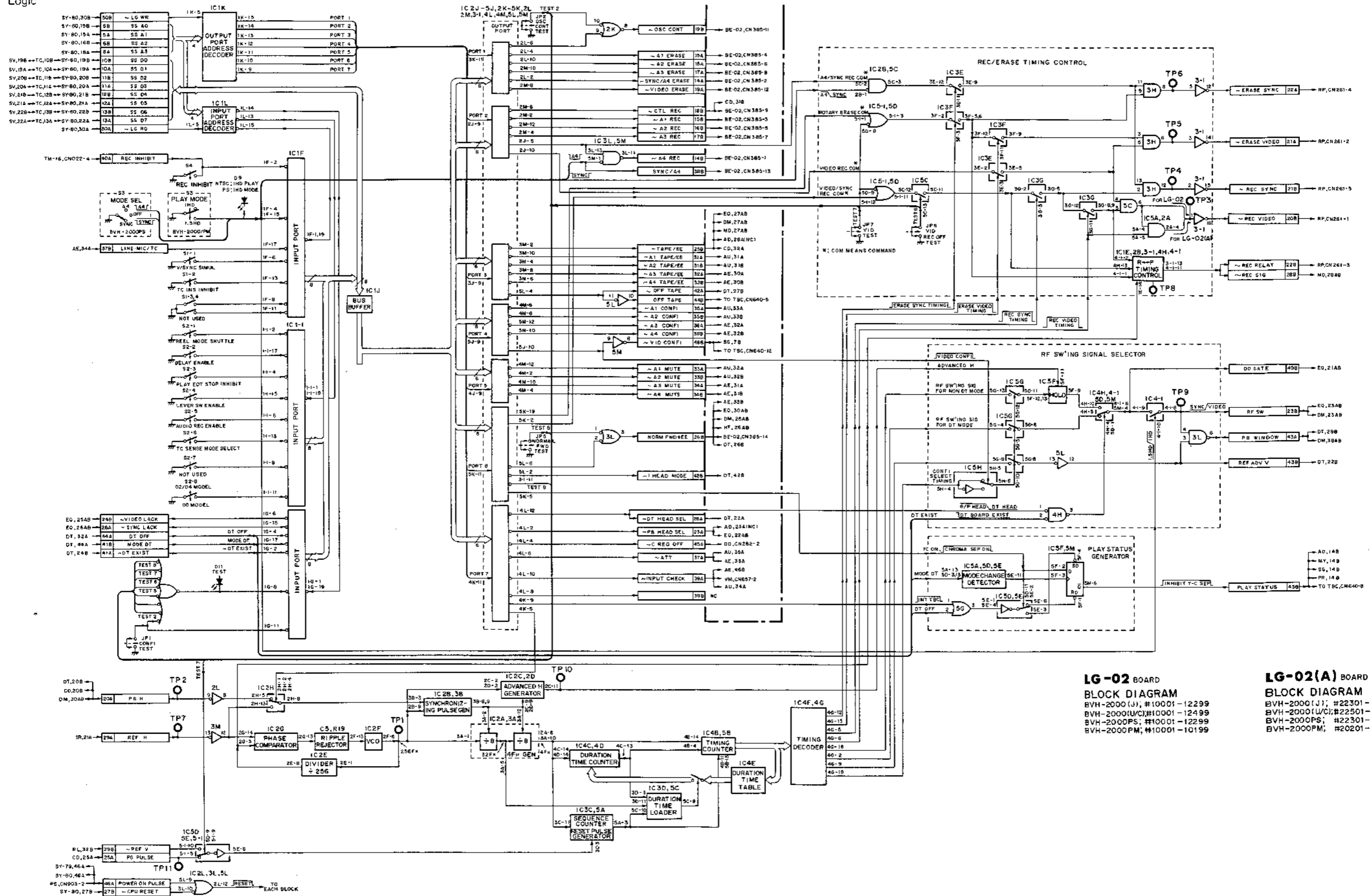
RA-05 BOARD
Reel Motor Driver



RA-05 BOARD BLOCK DIAGRAM
 BOARD NO.1-506-594-12 & UP
 BVH-2000(JAPAN); #11301- BVH-2500(JAPAN); #10001-
 BVH-2000(US/CANADA); #11401- BVH-2500(US/CANADA); #10001-
 BVH-2000(S.AEP); #11201- BVH-2500(S.AEP); #10001-
 BVH-2000(BRZ); #10201-

LG-02 BOARD
LG-02(A) BOARD

Logic

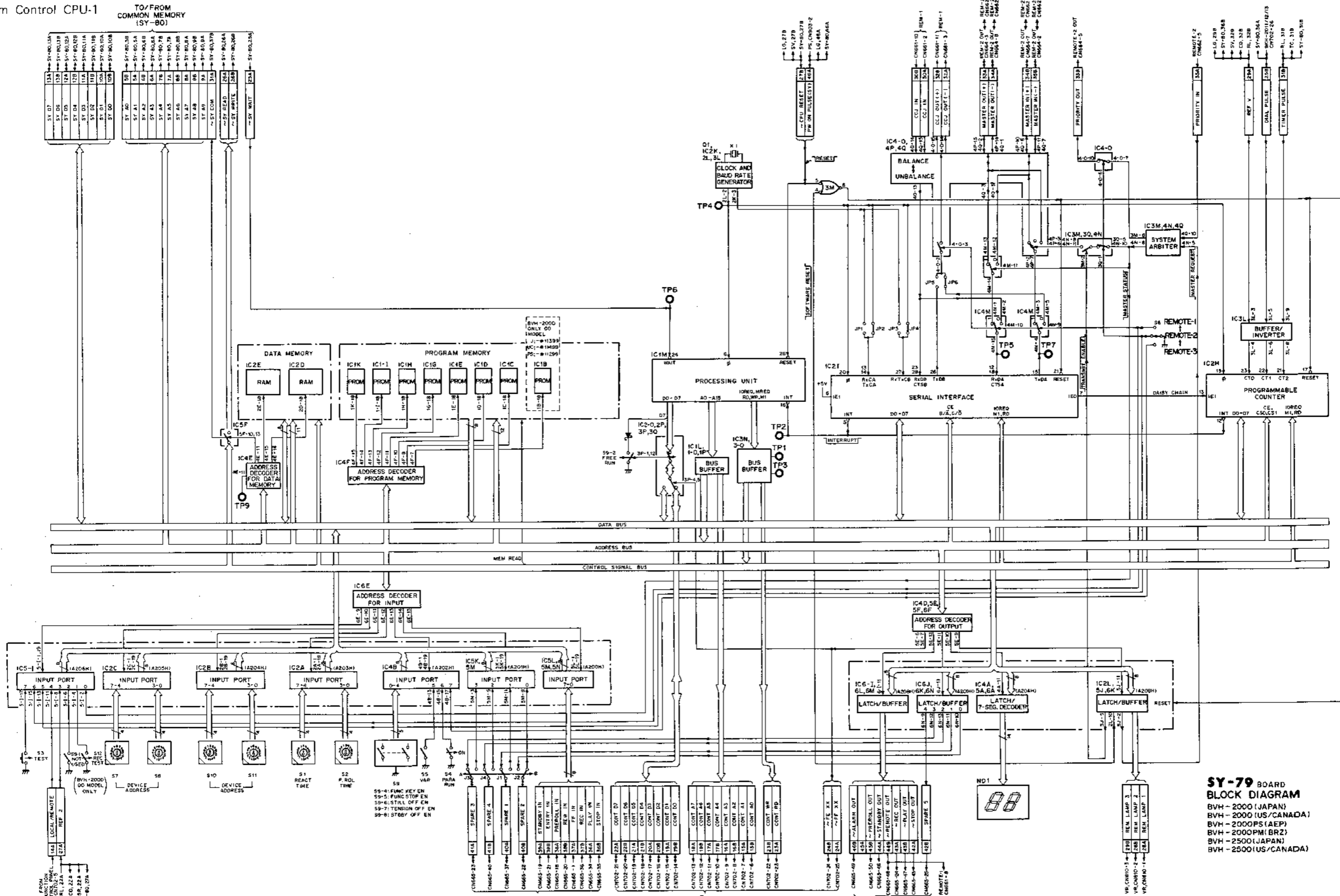


LG-02 BOARD
BLOCK DIAGRAM
BVH-2000 (J); #10001-12299
BVH-2000 (U/C); #10001-12499
BVH-2000 (P/S); #10001-12299
BVH-2000 (P/M); #10001-10199

LG-02(A) BOARD
BLOCK DIAGRAM
BVH-2000 (J); #22301-
BVH-2000 (U/C); #22501-
BVH-2000 (P/S); #22301-
BVH-2000 (P/M); #20201-

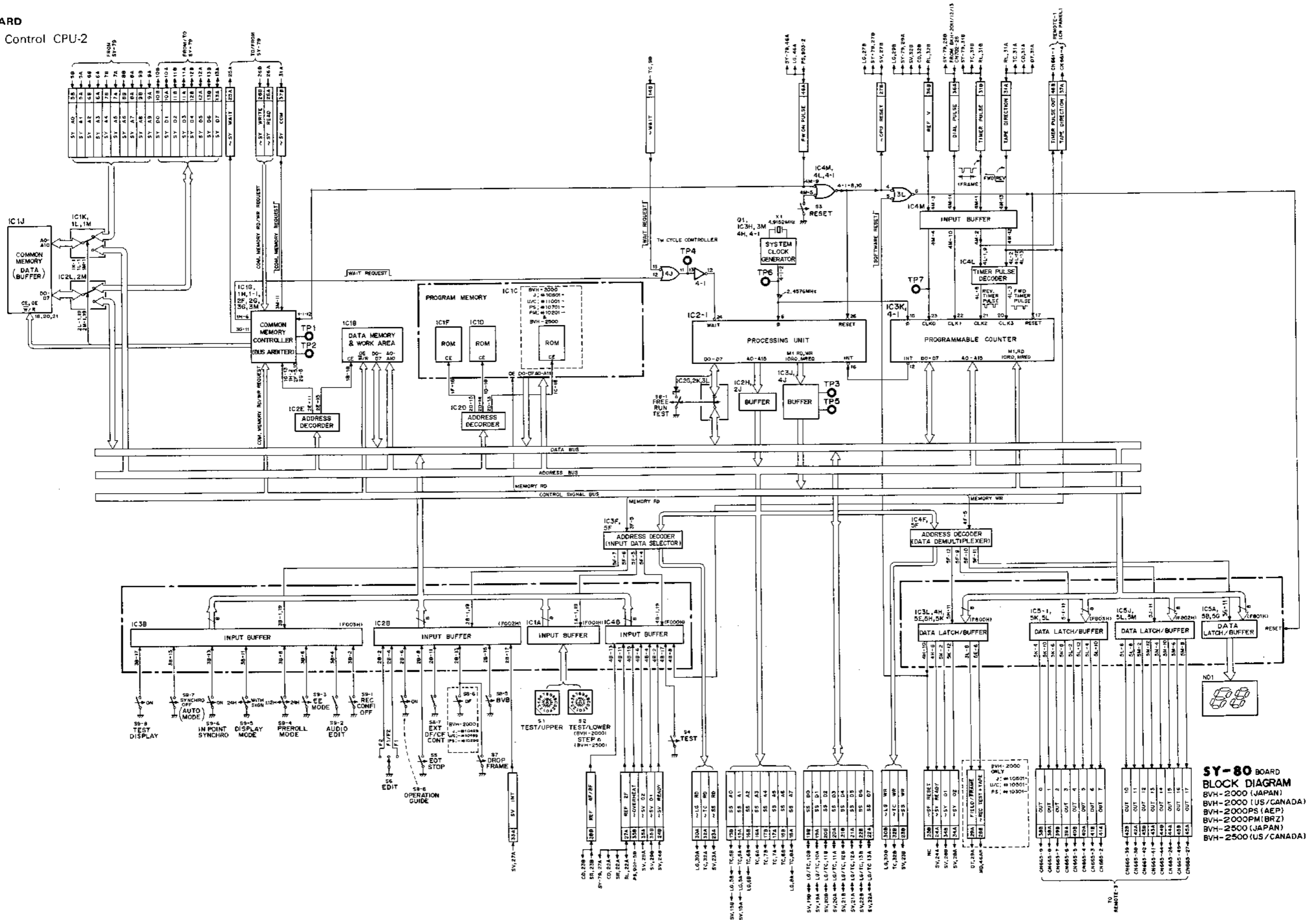
SY-79 BOARD

System Control CPU-1



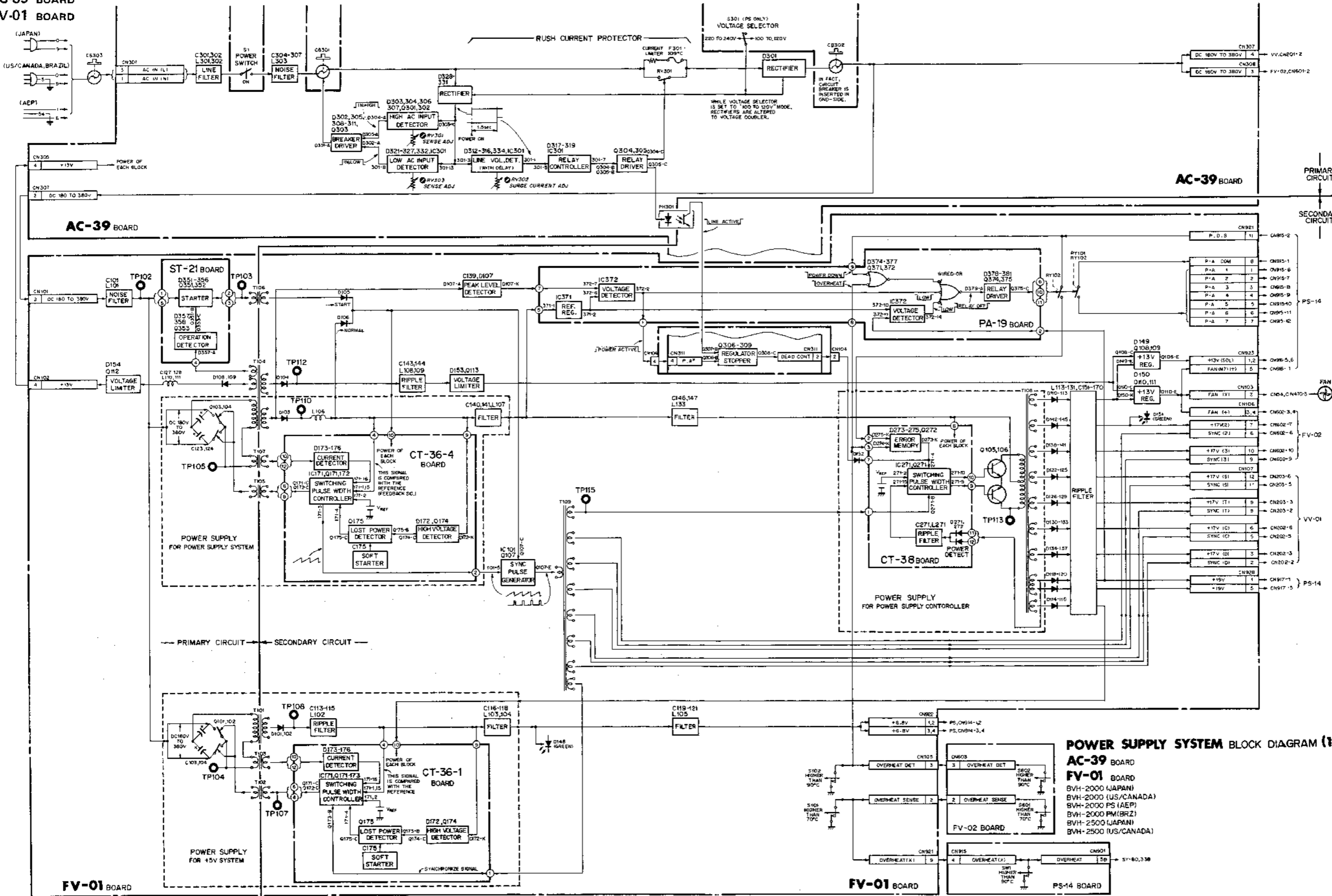
**SY-79 BOARD
BLOCK DIAGRAM**
 BVH - 2000 (JAPAN)
 BVH - 2000 (US/CANADA)
 BVH - 2000PS (AEP)
 BVH - 2000PM (BRZ)
 BVH - 2500 (JAPAN)
 BVH - 2500 (US/CANADA)

SY-80 BOARD
System Control CPU-2



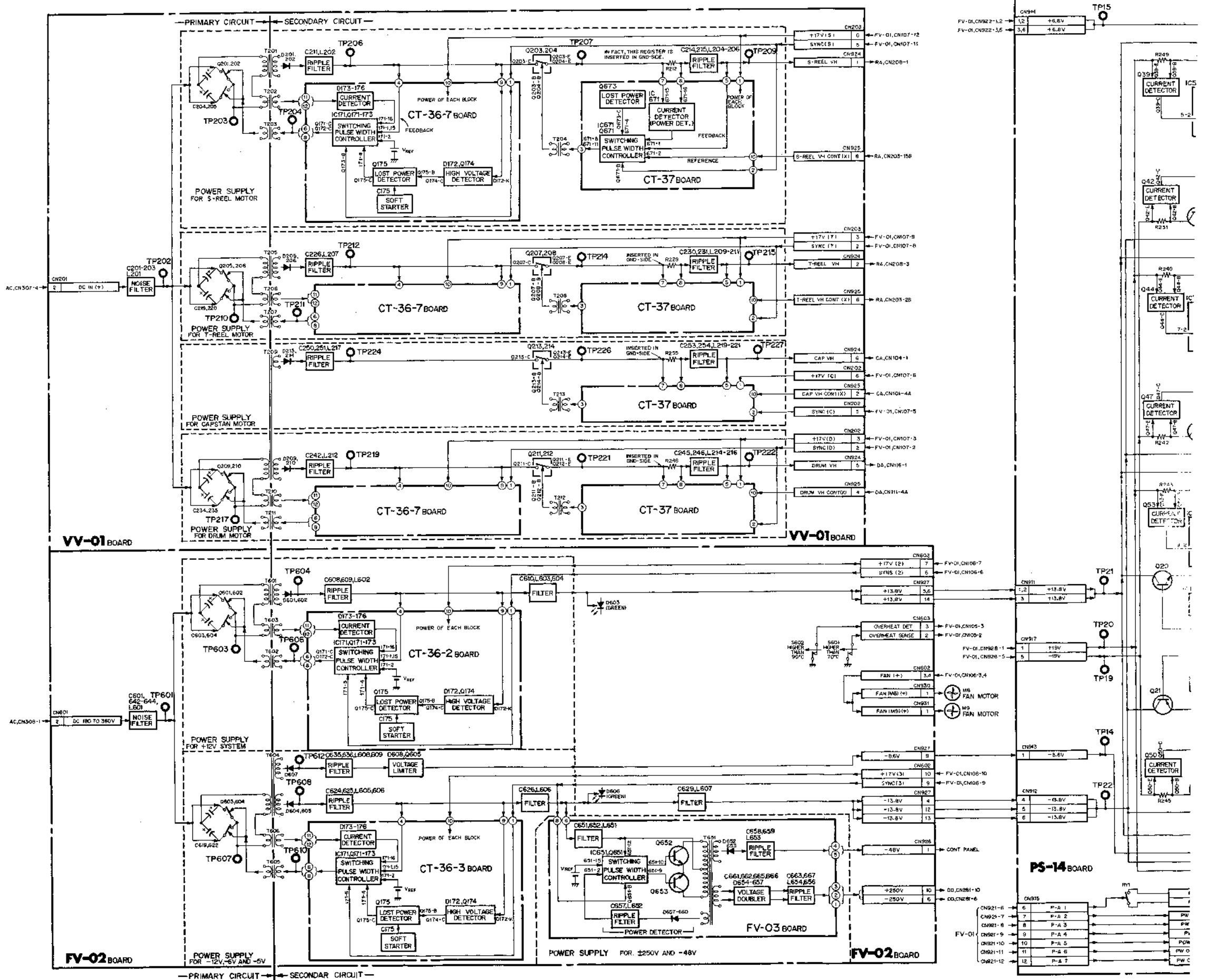
POWER SUPPLY SYSTEM (1/2)

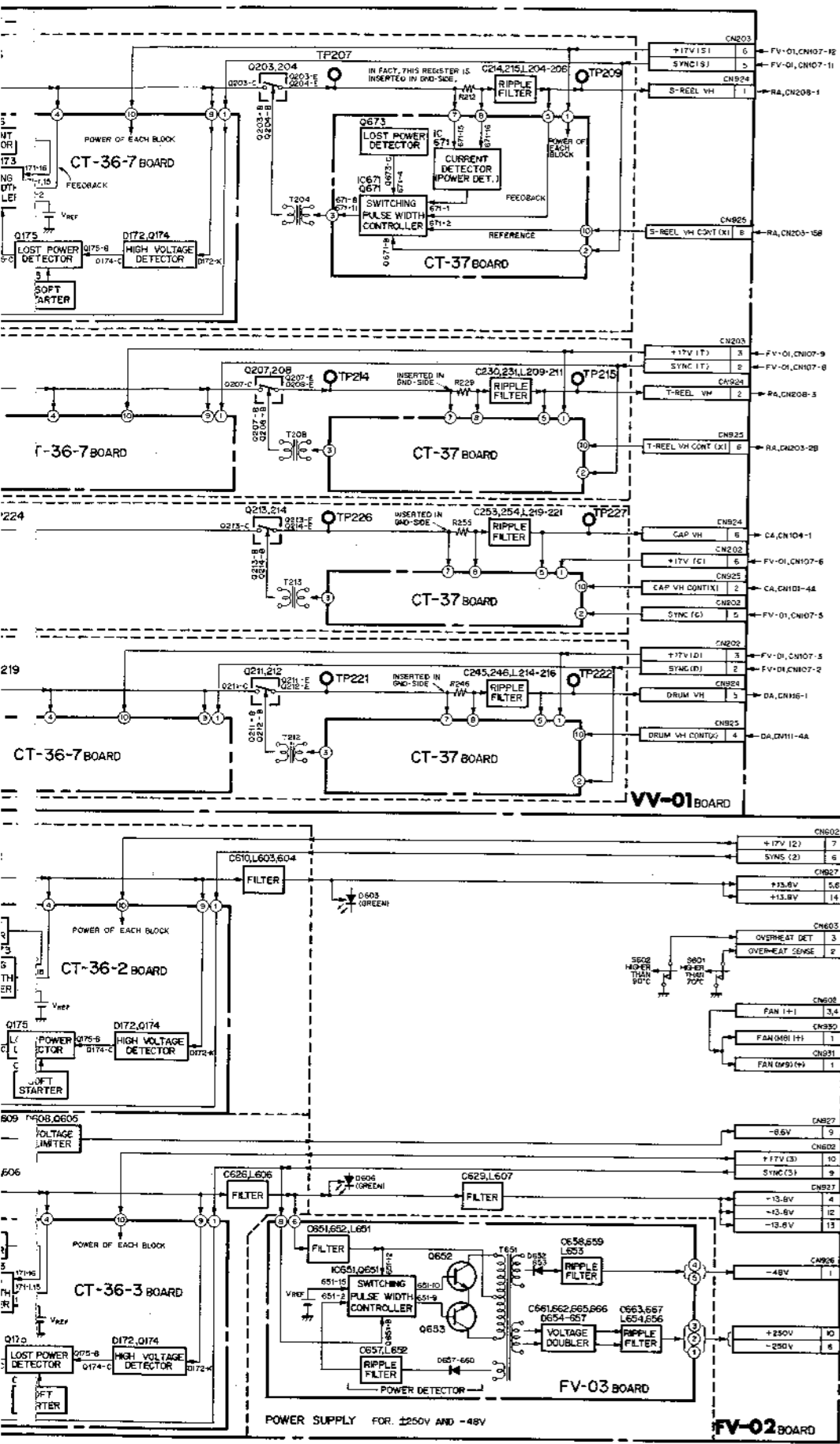
AC-39 BOARD
FV-01 BOARD



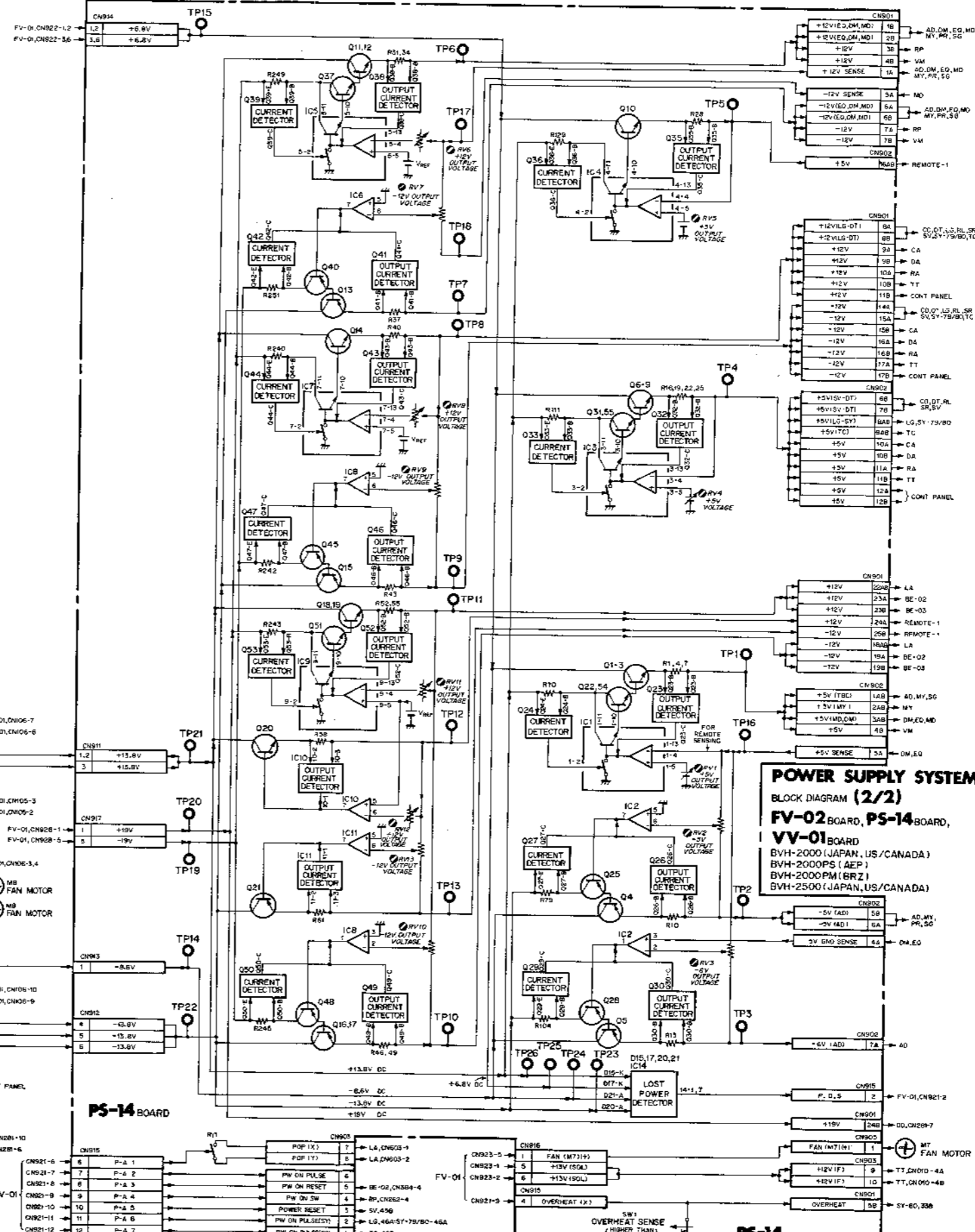
POWER SUPPLY SYSTEM (2/2)

PS-14 BOARD
VV-01 BOARD
FV-02 BOARD





A-64

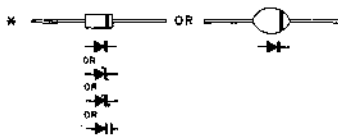


A-65

POWER SUPPLY SYSTEM
BLOCK DIAGRAM (2/2)
FV-02 BOARD, PS-14 BOARD,
VV-01 BOARD
 BVH-2000 (JAPAN, US/CANADA)
 BVH-2000PS (AEP)
 BVH-2000PM (BRZ)
 BVH-2500 (JAPAN, US/CANADA)

SECTION B
SEMICONDUCTOR PIN ASSIGNMENTS

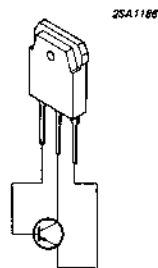
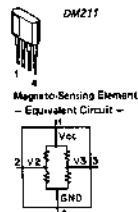
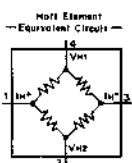
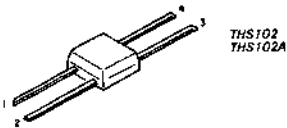
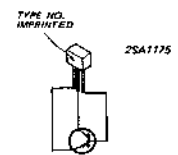
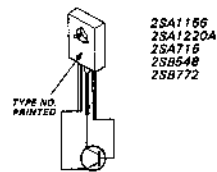
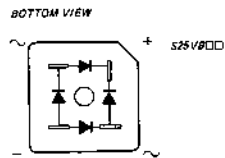
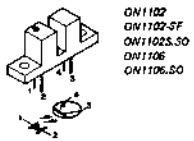
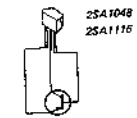
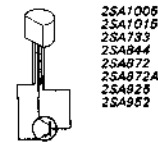
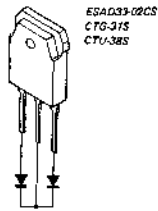
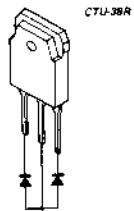
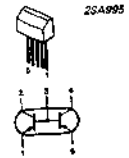
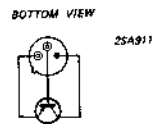
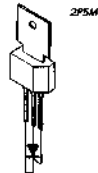
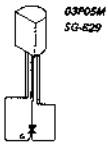
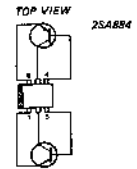
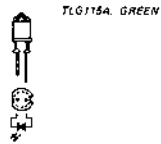
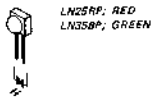
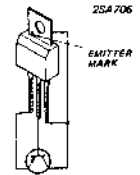
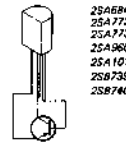
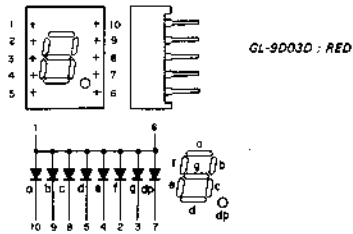
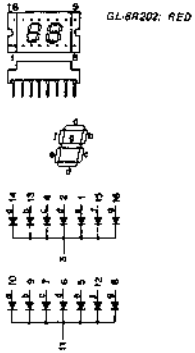
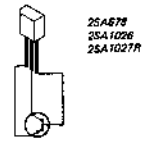
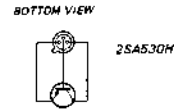
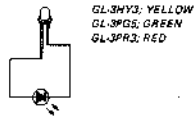
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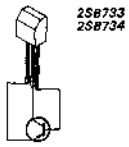
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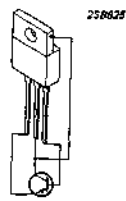
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UA723DC.....	B-42	V09G.....	*
UA796HCA.....	B-43		
UA796HC.....	B-43		
UPC78L05.....	B-43		
UPC78L05A.....	B-43		
UPC78L12.....	B-43		
UPC91A.....	B-43		
UPC159A.....	B-43		
UPC311C.....	B-43		
UPC319C.....	B-43		
UPC324C.....	B-43		
UPC339C.....	B-43		
UPC358C.....	B-43		
UPC393C.....	B-43		
UPC648D.....	B-44		
UPC649C.....	B-44		
UPC4082C.....	B-41		
UPC4556C.....	B-44		
UPC4557C.....	B-44		
UPC4558C.....	B-25		
UPD780C.....	B-21		



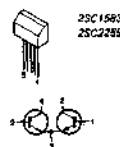
TRANSISTOR



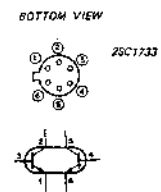
2SB733
2SB734



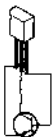
2SB825



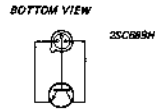
2SC1583
2SC2259



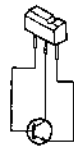
BOTTOM VIEW
2SC1733



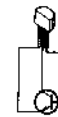
2SC403C
2SC634A
2SC1636



BOTTOM VIEW
2SC689H



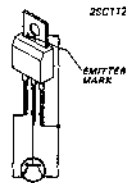
2SC2021



2SC2458
2SC2603
2SC2724
2SC403SP

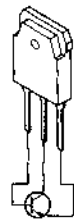


2SC710
2SC1809
2SC2012



2SC1124

EMITTER MARK



2SC2556
2SC2637
2SC2944



2SC2583

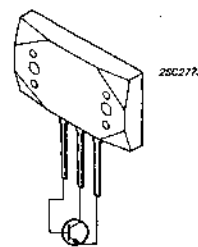


2SC1128
2SC2009
2SC2011

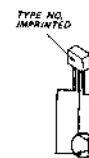


2SC1162
2SC2690A
2SC2752
2SD414
2SD809
2SD862
2SD882

TYPE NO. PRINTED



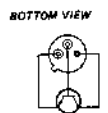
2SC2772



TYPE NO. IMPRINTED
2SC2785



2SC1173
2SC1986
2SC2315
2SC2654
2SD313HP
2SD1051



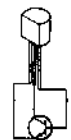
BOTTOM VIEW
2SC1262
2SC1762



2SD773
2SD774



2SK42



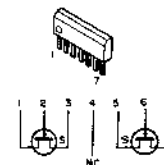
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2SC1364
2SC1633
2SC1634
2SC1775
2SC1775A
2SC1815
2SC1890A
2SC2561
2SC2678
2SC3068
2SC641K
2SC945
JC501



2SC1474
2SC1475
2SC2001
2SC2228
2SC2383
2SD788
2SD789



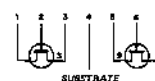
2SK107



2SK109



2SK150A



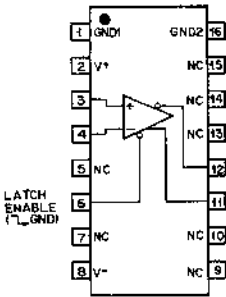
SUBSTRATE



2SK162

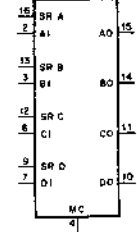
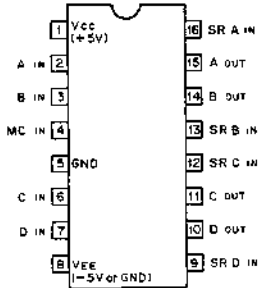
AM685DL (ADVANCED MICRO DEVICE)
VOLTAGE COMPARATOR
(OPEN EMITTER OUTPUTS)

— TOP VIEW —



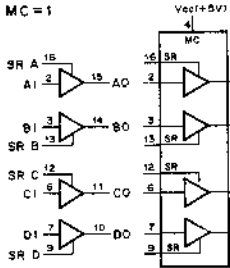
AM26LS30PC (ADVANCED MICRO DEVICE)
LINE DRIVER

— TOP VIEW —

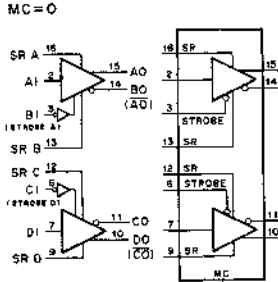


MC: MODE CONTROL
SR: SLEW RATE CONTROL

MC = 1



MC = 0



MC	A TO B	A TO D
0	0	0
1	1	1

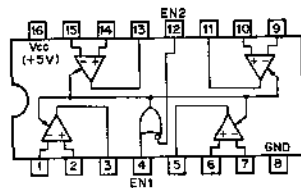
0: LOW LEVEL X: DON'T CARE
1: HIGH LEVEL HI-Z: HIGH IMPEDANCE

MC	STROBE	A & D	A & D	B & C
0	0	0	0	1
0	0	1	1	0
0	1	X	HI-Z	HI-Z

0: LOW LEVEL
1: HIGH LEVEL
HI-Z: HIGH IMPEDANCE

AM26LS32PC (ADVANCED MICRO DEVICE)
HIGH SPEED DIFFERENTIAL LINE RECEIVER

— TOP VIEW —



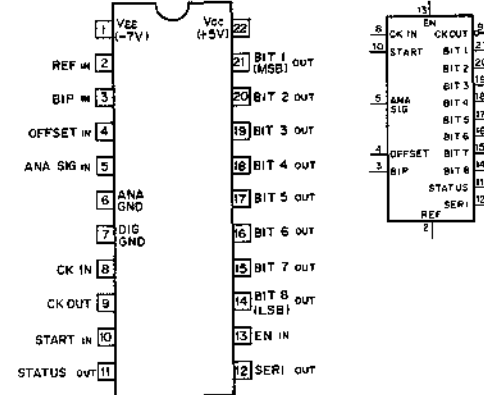
EN2	EN1	OUTPUT
0	0	ENABLE
0	1	ENABLE
1	0	HI-Z
1	1	ENABLE

0: LOW LEVEL
1: HIGH LEVEL
HI-Z: HIGH IMPEDANCE

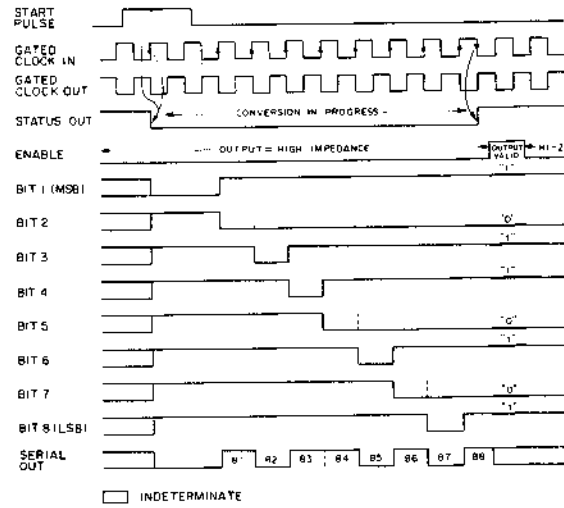
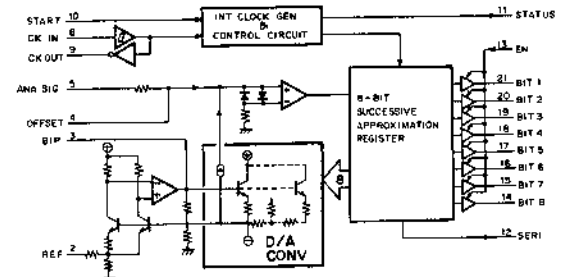
SENSE	INPUT VOLT
LS32	±200mV ±7V
LS33	±500mV ±15V

BA9101 (ROHM)
8-BIT A/D CONVERTER WITH 3-STATE OUTPUT CONTROL

— TOP VIEW —

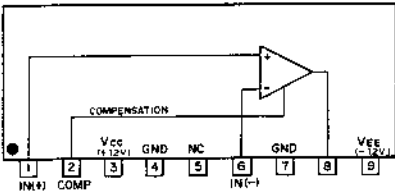


REF: REFERENCE VOLTAGE ADJUST
BIP: BIPOLAR OFFSET IN
CK IN: EXTERNAL CLOCK or CK AT IN
CK OUT: INVERTED CLOCK OUT
START: CONVERSION START PULSE IN
STATUS: STATUS FLAG OUT
SERI: SERIAL OUT
EN: OUTPUT ENABLE

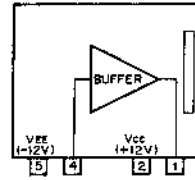


TIMING DIAGRAM (Binary Code 10110101)

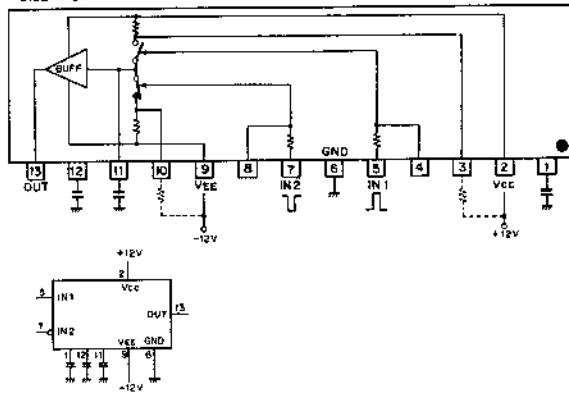
BX365A (SONY)
A7015
VIDEO AMPLIFIER
— SIDE VIEW —



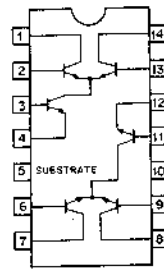
BX3931 (SONY)
BX3931A (SONY)
HYBRID VIDEO WIDEBAND
BUFFER AMPLIFIER
— IMPRINTED SIDE —



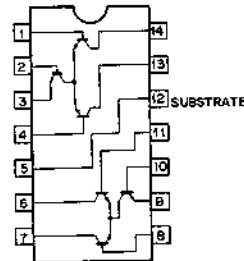
BX381 (SONY)
PHASE COMPARATOR
— SIDE VIEW —



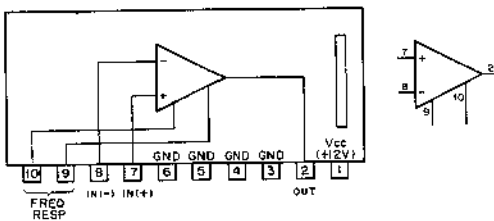
CA3054 (RCA)
DIFFERENTIAL AMPLIFIER
— TOP VIEW —



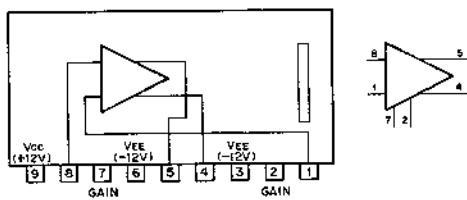
CA3102E (RCA)
HIGH FREQ. DIFFERENTIAL AMPLIFIER
— TOP VIEW —



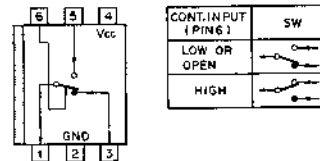
BX1156 (SONY)
BX3929 (SONY)
HYBRID VIDEO RF PREAMPLIFIER
— IMPRINTED SIDE —



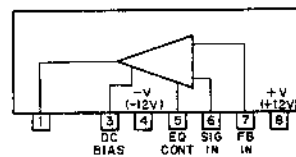
BX3930 (SONY)
HYBRID VIDEO WIDEBAND DIFFERENTIAL AMPLIFIER
— IMPRINTED SIDE —



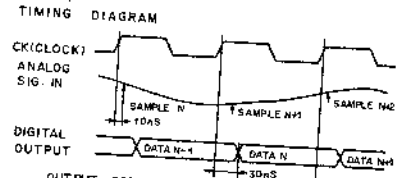
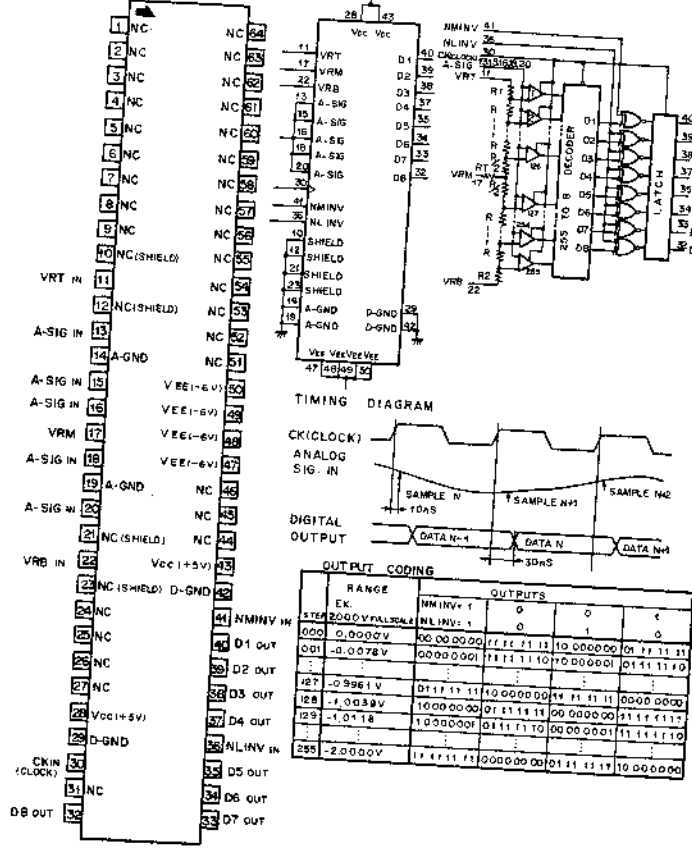
CX130 (SONY)
ANALOG SWITCH
— TOP VIEW —



CX550 (SONY)
AUDIO PREAMPLIFIER
— SIDE VIEW —



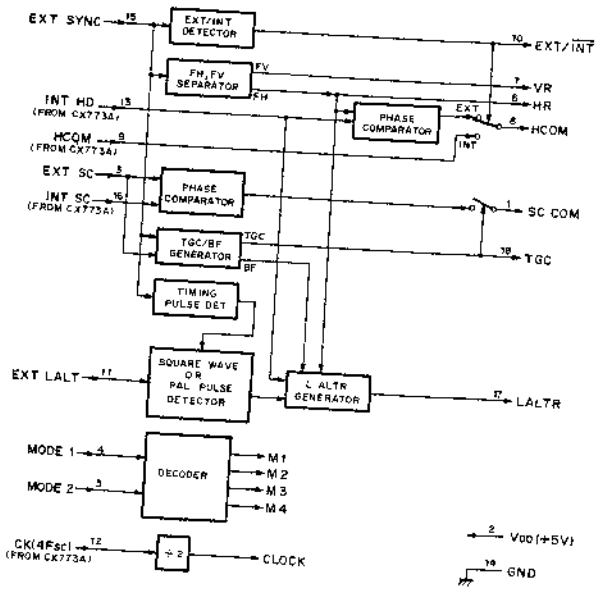
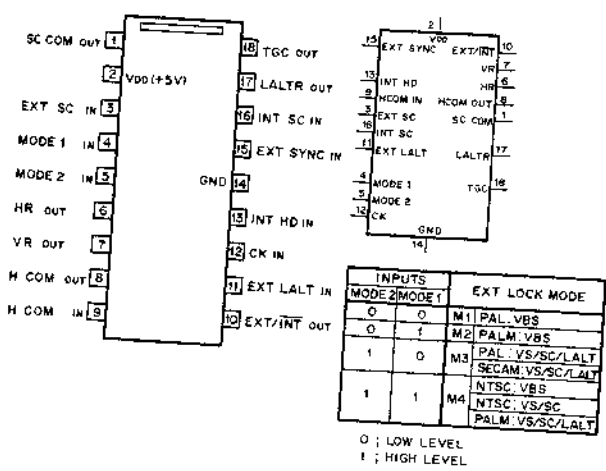
CX20016 (SONY)
 CX20016A (SONY)
 CX20016A-2 (SONY)
 TDC1007J (TRW)
 8-BIT POLAR/TTL VIDEO A/D CONVERTER
 - TOP VIEW -



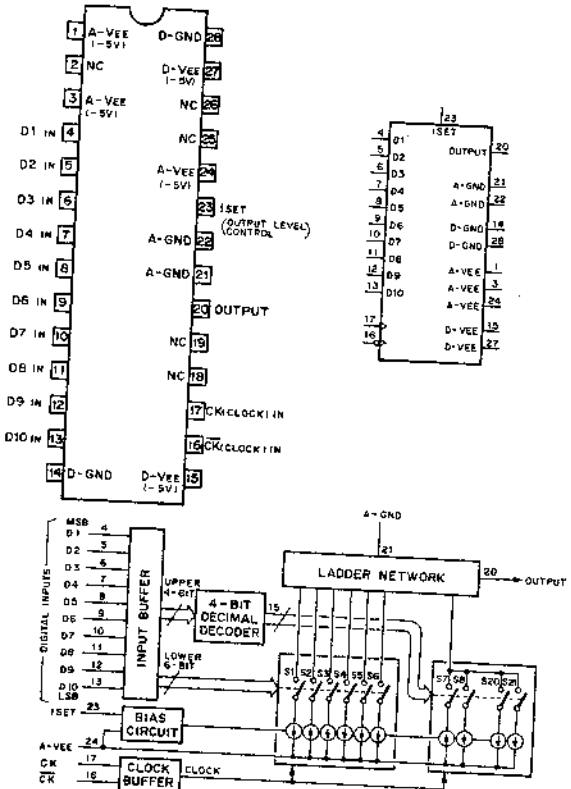
OUTPUT CODING

RANGE	AN INVT	NR INV	OUTPUTS
0.0000V	00000000	00000000	00000000
0.0000V	00000000	11111111	10000000
0.0000V	00000000	11111111	10111111
-0.0078V	00000000	11111111	10000001
-0.0078V	01111111	10000000	11111111
-1.0039V	10000000	01111111	00000000
-1.0039V	10000000	01111111	00000001
-2.0000V	11111111	00000000	01111111

CX7903 (SONY)
 CMOS GENLOCK DRIVER FOR CX773A
 - TOP VIEW -

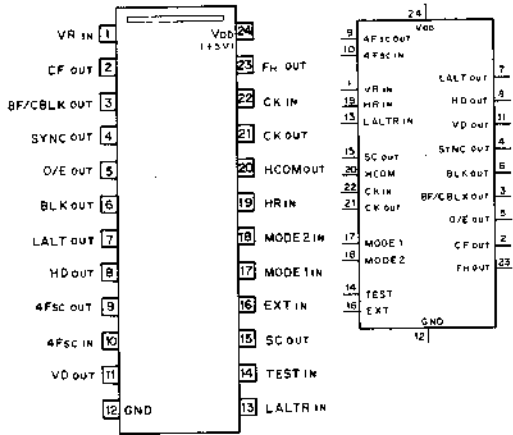


CX20051 (SONY)
 CX20051A (SONY)
 10-BIT D/A CONVERTER (ECL INPUT)
 - TOP VIEW -



BVH-2000/PS/PM
 BVH-2500

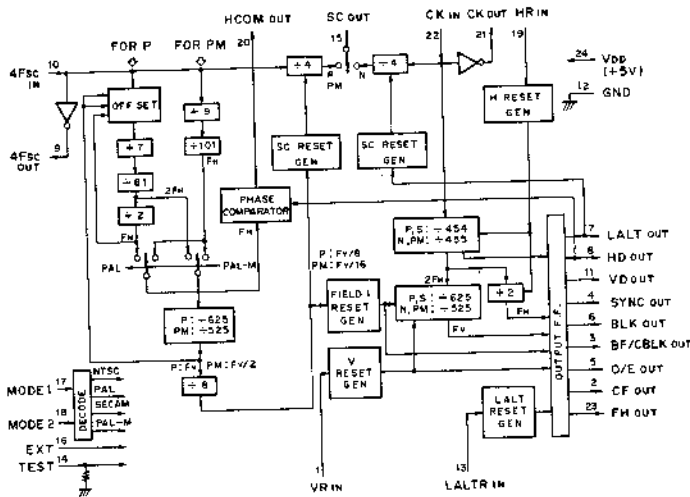
CX773A (SONY)
 CX773A-1 (SONY)
 C-MOS SYNC GENERATOR (NTSC, PAL-M, PAL, SECAM)
 - TOP VIEW -



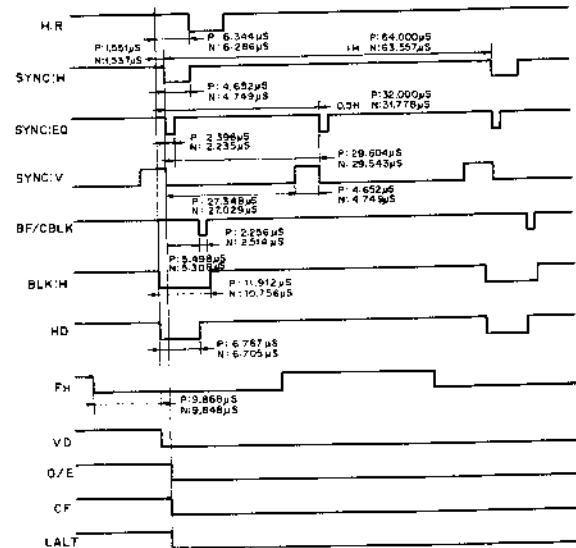
O/E : ODD/EVEN FIELD
 CF : COLOR FRAME PULSE
 HCOM : H COMPARATOR

SYSTEM	4Fsc	CLOCK	MODE1	MODE2	SYSTEM	EXT	TEST	FUNCTION
NTSC	910 F _H	910 F _H	0	0	NTSC	0	0	INTERNAL
PAL	1135 F _H +2F _V	908 F _H	0	1	SECAM	0	1	INVALID
PALM	909 F _H	910 F _H	1	0	PALM	1	0	EXT
SECAM		908 F _H	1	1	PAL	1	1	TEST

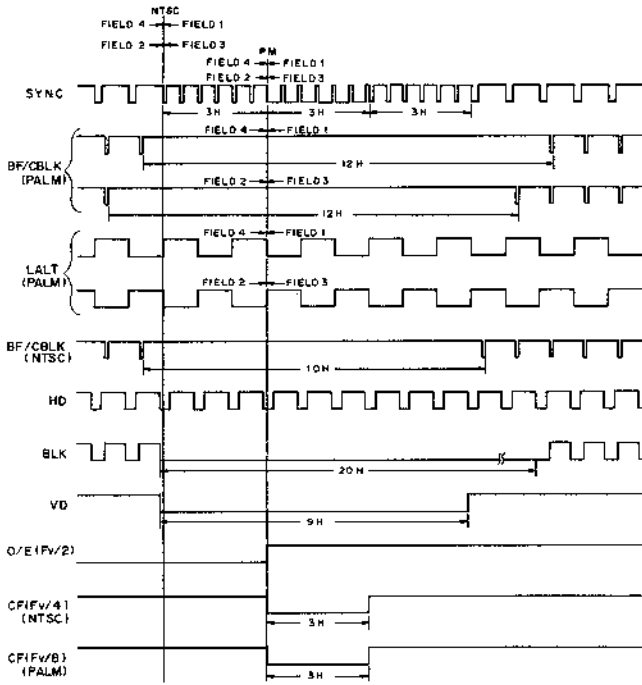
O : LOW LEVEL (GND)
 1 : HIGH LEVEL (V_{DD})
 TEST '0' OPEN (INTERNALLY PULLED DOWN)



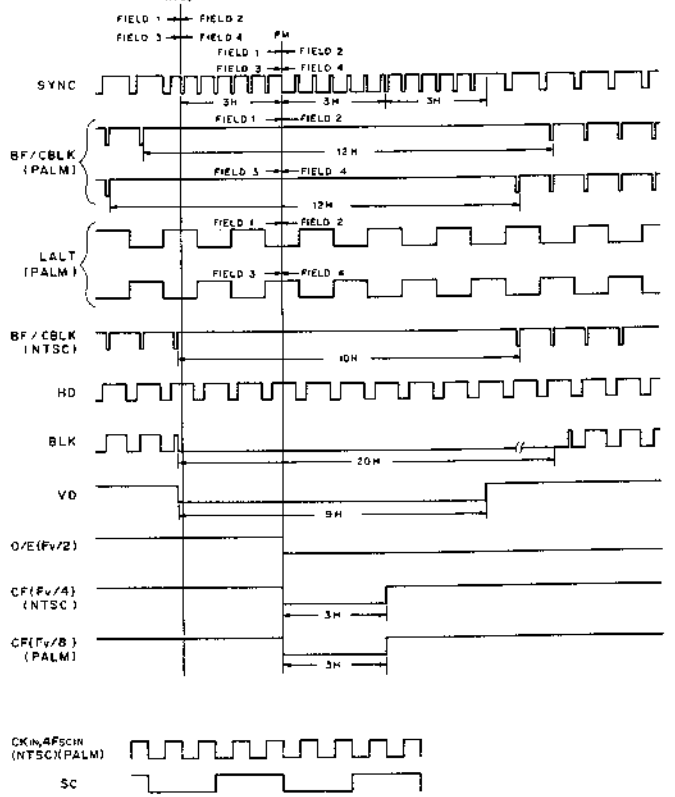
P: PAL, SECAM
 N: NTSC, PALM



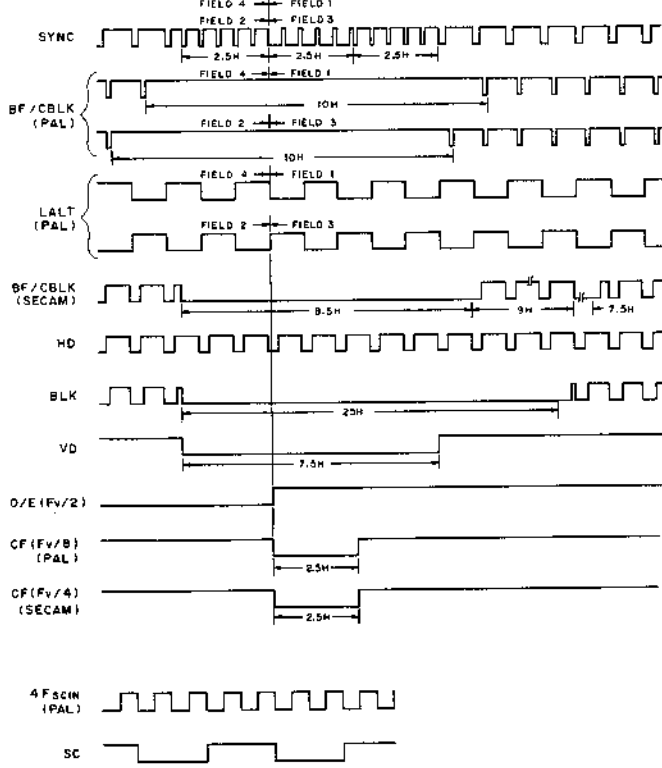
NTSC, PAL-M (FIELD 1,3)



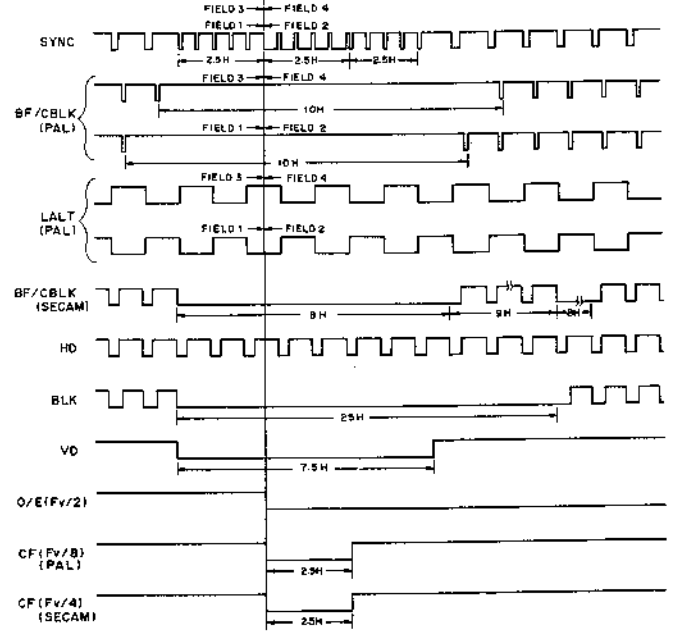
NTSC, PAL-M (FIELD 2,4)



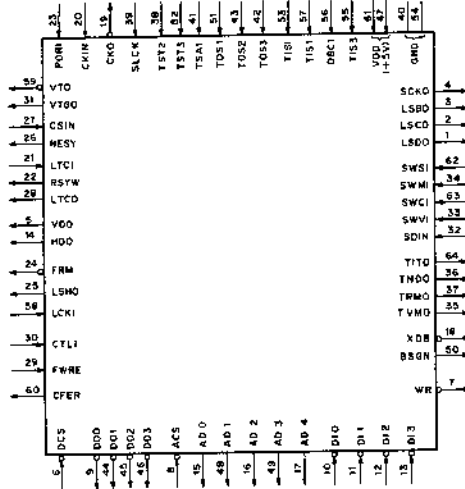
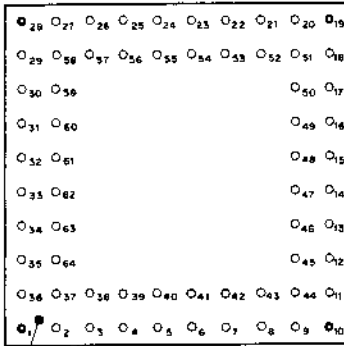
PAL, SECAM (FIELD 1,3)



PAL, SECAM (FIELD 4,2)

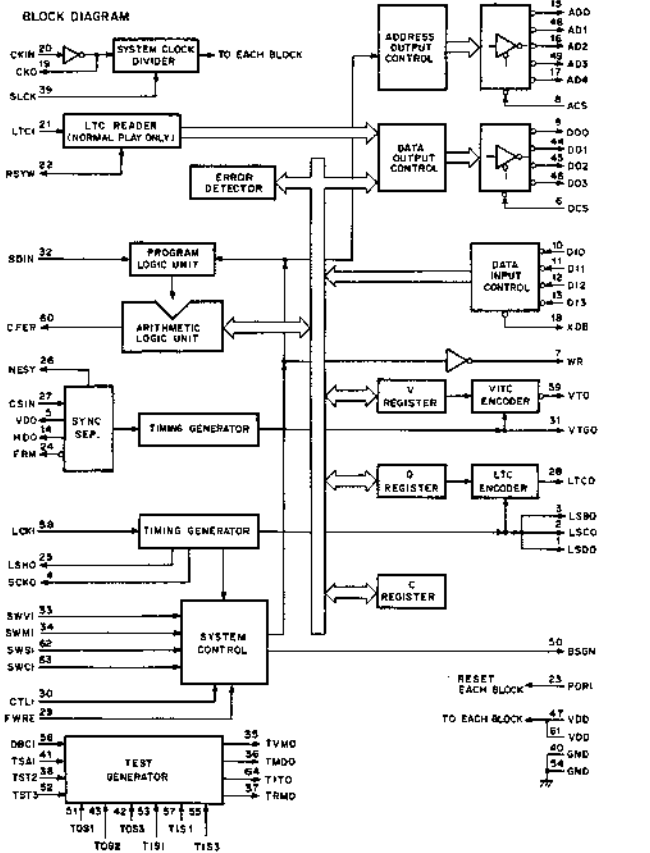


CX7907 (SONY)
 CX7907A (SONY)
 C-MOS TIME CODE GENERATOR
 — TOP VIEW —



PIN ASSIGNMENT

Pin No.	IN	OUT	SYMBOL	Pin No.	IN	OUT	SYMBOL	Pin No.	IN	OUT	SYMBOL	Pin No.	IN	OUT	SYMBOL
1	0	0	LSDO	17	0	0	AD4	33	0	0	SWVI	49	0	0	AD3
2	0	0	LSCO	18	0	0	XDB	34	0	0	SWMI	50	0	0	BSCN
3	0	0	LSBO	19	0	0	CRD	35	0	0	TVMO	51	0	0	TOS1
4	0	0	SCRO	20	0	0	CRIN	36	0	0	TNDO	52	0	0	TST2
5	0	0	VDO	21	0	0	LTCI	37	0	0	TRMO	53	0	0	TISI
6	0	0	DCS	22	0	0	RSYW	38	0	0	TST2	54	0	0	GND
7	0	0	WR	23	0	0	FORI	39	0	0	SLCK	55	0	0	TIS3
8	0	0	ACS	24	0	0	FRM	40	0	0	GND	56	0	0	DBCI
9	0	0	DOO	25	0	0	LSHO	41	0	0	TSAI	57	0	0	TIS1
10	0	0	DI0	26	0	0	NSY	42	0	0	TSY2	58	0	0	LCKI
11	0	0	DI1	27	0	0	CRIN	43	0	0	TOS2	59	0	0	VTO
12	0	0	DI2	28	0	0	LSMO	44	0	0	DO1	60	0	0	CFER
13	0	0	DI3	29	0	0	FWRE	45	0	0	DO2	61	0	0	VDD(+5V)
14	0	0	HDO	30	0	0	CTLI	46	0	0	DO3	62	0	0	SWSI
15	0	0	ADD	31	0	0	VTGO	47	0	0	VDD(+5V)	63	0	0	SWCI
16	0	0	AD2	32	0	0	SDIN	48	0	0	AD1	64	0	0	TITO



FUNCTIONAL PIN DEFINITION

Pin No.	SYMBOL	DESCRIPTION
8	ACS	ADDRESS LINE CHIP SELECT INPUT
15	ADD	ADDRESS DATA OUTPUT
48	AD1	ADDRESS DATA OUTPUT
16	AD2	ADDRESS DATA OUTPUT
49	AD3	ADDRESS DATA OUTPUT
44	AD4	ADDRESS DATA OUTPUT
56	BSCN	BURST GENERATOR OUTPUT
60	CFER	COLOR FRAME ERROR FLAG OUTPUT
20	CFIN	SYSTEM CLOCK INPUT
19	CRD	CLOCK OUTPUT
27	CRIN	COMPOSITE SYNC INPUT
30	CTLI	CTL(TIMER) SIGNAL INPUT (T)
6	DCS	DATA LINE CHIP SELECT INPUT (NEGATIVE-LOGIC)
10	DI0	DATA BUS INPUT (NEGATIVE-LOGIC)
11	DI1	DATA BUS INPUT (NEGATIVE-LOGIC)
12	DI2	DATA BUS INPUT (NEGATIVE-LOGIC)
13	DI3	DATA BUS INPUT (NEGATIVE-LOGIC)
9	DO0	DATA BUS OUTPUT (NEGATIVE-LOGIC)
44	DO1	DATA BUS OUTPUT (NEGATIVE-LOGIC)
45	DO2	DATA BUS OUTPUT (NEGATIVE-LOGIC)
46	DO3	DATA BUS OUTPUT (NEGATIVE-LOGIC)
24	FRM	FRAME SIGNAL OUTPUT (NEGATIVE-LOGIC)
29	FWRE	CTL DIRECTION INPUT
14	RDO	HORIZONTAL SYNC DRIVE OUTPUT
58	LCKI	LTC CLOCK INPUT (SNRPT 3.6MHz/EBU 8kHz)
3	LSBO	LTC SYNCHRONOUS SIGNAL B OUTPUT
2	LSCO	LTC SYNCHRONOUS SIGNAL C OUTPUT
1	LSDO	LTC SYNCHRONOUS SIGNAL D OUTPUT
25	LSBO	LTC SYNCHRONOUS SIGNAL H OUTPUT
21	LTCI	LTC INPUT
28	LTCO	LTC SIGNAL OUTPUT
26	NSY	LOST-SYNC FLAG OUTPUT
23	FORI	POWER ON RESET INPUT
22	RSYW	READ SYNC WORD OUTPUT
32	SDIN	SERIAL DATA INPUT
39	SLCK	SELECT CLOCK INPUT
63	SNCI	SWITCHES SIGNAL C INPUT
34	SWMI	SWITCHES SIGNAL M INPUT
62	SNBI	SWITCHES SIGNAL S INPUT
31	SWVI	SWITCHES SIGNAL V INPUT
5	VDO	VERTICAL SYNC DRIVE OUTPUT
31	VTGO	VTC GATE SIGNAL OUTPUT
59	VTO	VTC SIGNAL OUTPUT (NEGATIVE-LOGIC)
7	WR	WRITE SIGNAL OUTPUT (NEGATIVE-LOGIC)
18	XDB	EXTERNAL DATA BUS IN FLAG OUTPUT (NEGATIVE-LOGIC)
47	VDD	POWER LINE (+5V)
61	VDD	GND LINE
40	GND	GND LINE
54	GND	GND LINE
56	DBCI	GND LINE
57	TIS1	GND LINE
55	TIS3	GND LINE
53	TISI	GND LINE
52	TOS1	GND LINE
51	TOS2	GND LINE
43	TOS3	GND LINE
41	TSAI	GND LINE
38	TSY2	GND LINE
52	TST2	GND LINE
64	TITO	GND LINE
36	TNDO	GND LINE
37	TRMO	GND LINE
35	TVMO	GND LINE

#32 SDIN

LSDO	LSCO	LSBO	SDIN	FUNCTION
0	0	0	0	INCREASE IN BIT 'FR OF U1'
0	0	0	1	INCREASE IN BIT 'FT OF U2'
0	0	1	0	INCREASE IN BIT 'SE OF U3'
0	0	1	1	INCREASE IN BIT 'ST OF U4'
0	1	0	0	INCREASE IN BIT 'MH OF U5'
0	1	0	1	INCREASE IN BIT 'MF OF U6'
0	1	1	0	INCREASE IN BIT 'MR OF U7'
0	1	1	1	INCREASE IN BIT 'HT OF U8'

NOTE: INFLUENCED BIT IS DECIDED BY FIRST 2 BITS OF SWC1.

#62 SWS1

LSDO	LSCO	LSBO	SWS1	FUNCTION
0	0	0	FBS1*	VITC FIELD MARK/ LTC PHASE CORRECTION
0	0	1	FBS2*	LTC PHASE CORRECTION POSITION SELECT
0	1	0	FBS3*	PHASE CORRECTION ON
0	1	1	0	PHASE CORRECTION OFF
1	0	0	S1**	SIGNAL FORMAT SELECT
1	0	1	S2**	SIGNAL FORMAT SELECT
1	1	0	S4**	SIGNAL FORMAT SELECT
1	1	1	X	-

X: DON'T CARE.

#63 SWC1

LSDO	LSCO	LSBO	SWC1	FUNCTION
0	0	0	0	U-BIT IN/OUT DATA SELECT*1
0	0	0	1	TIME DATA SELECT*1
0	0	1	0	CTL DATA SELECT*1
0	0	1	1	TIME/V-BIT
0	1	0	X	-
0	1	1	0	DATA RESET ON*2
0	1	1	1	DATA RESET OFF
1	0	0	0	TIME DATA HOLD
1	0	0	1	TIME DATA RUN
1	0	1	0	EXTERNAL DATA LOAD*2
1	0	1	1	EXTRAPOLATION ON
1	1	0	0	EXTRAPOLATION OFF
1	1	1	X	-

X: DON'T CARE.
*1: REFER TO TIMING CHART (DATA OUT).
*2: INFLUENCED DATA IS DECIDED BY FIRST 2 BITS OF SWC1.

#33 SWM1

LSDO	LSCO	LSBO	SWM1	FUNCTION
0	0	0	SWA1	VITC POSITION SELECT A
0	0	1	SWB1	VITC POSITION SELECT A
0	1	0	SWC1	VITC POSITION SELECT B
0	1	1	SWD1	VITC POSITION SELECT B
1	0	0	SWA2	VITC POSITION SELECT A
1	0	1	SWB2	VITC POSITION SELECT A
1	1	0	SWC2	VITC POSITION SELECT B
1	1	1	SWD2	VITC POSITION SELECT B

1: VITC POSITION SELECT

SW1D SW1C SW1B SW1A	SW2D SW2C SW2B SW2A	INSERTION LINE
0 0 0 0	0 0 0 0	LINE 25
0 0 0 0	0 0 1 1	LINE 22,335
0 0 0 0	0 1 0 1	24
0 0 0 0	0 1 1 0	25
0 0 0 0	0 1 1 1	22,333
0 0 0 1	0 0 0 0	22
0 0 0 1	0 0 0 1	19,332
0 0 0 1	0 0 1 0	21
0 0 0 1	0 0 1 1	18,331
0 0 0 1	0 1 0 0	20
0 0 0 1	0 1 0 1	17,330
0 0 0 1	0 1 1 0	19
0 0 0 1	0 1 1 1	18
0 0 1 0	0 0 0 0	17
0 0 1 0	0 0 0 1	18
0 0 1 0	0 0 1 0	15
0 0 1 0	0 0 1 1	14
0 0 1 0	0 1 0 0	13
0 0 1 0	0 1 0 1	12
0 0 1 0	0 1 1 0	11
0 0 1 0	0 1 1 1	10

*: VITC FIELD MARK/LTC PHASE CORRECTION POSITION SELECT

FBS3	FBS2	FBS1	FIELD MARK POSITION	LTC BIT No.
0	0	0	AS1	10
0	0	1	AS2	11
0	1	0	AS3	27
0	1	1	AS4	43
1	0	0	AS5	58
1	0	1	AS6	59
1	1	0	-	-
1	1	1	-	-

NOTE: LTC PHASE CORRECTION BIT OF CX7907 IS FIXED ON BIT-63.

** : SIGNAL FORMAT SELECT

S4	S2	S1	FORMAT	FRAME
0	0	0	FILM	24
0	0	1	NOT ALLOWED	-
0	1	X	NOT ALLOWED	-
1	0	0	PAL, SECAM	25
1	0	1	NOT ALLOWED	-
1	1	0	NTSC MDT	30
1	1	1	NTSC DF	30

DF: DROP FRAME
NDP: NON DROP FRAME
X: DON'T CARE.

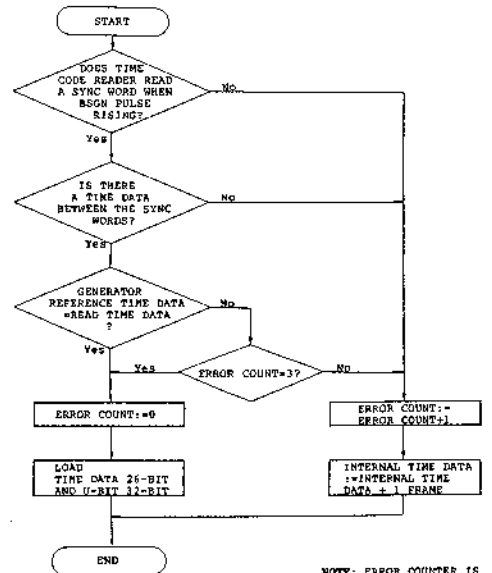
0: LOW LEVEL
1: HIGH LEVEL

#34 SWM1

LSDO	LSCO	LSBO	SWM1	FUNCTION
0	0	0	X	INSERT SWM1 DATA INTO BIT 'AS1' (NEGATIVE-LOGIC)
0	0	1	X	INSERT SWM1 DATA INTO BIT 'AS2' (NEGATIVE-LOGIC)
0	1	0	X	INSERT SWM1 DATA INTO BIT 'AS3' (NEGATIVE-LOGIC)
0	1	1	X	INSERT SWM1 DATA INTO BIT 'AS4' (NEGATIVE-LOGIC)
1	0	0	X	INSERT SWM1 DATA INTO BIT 'AS5' (NEGATIVE-LOGIC)
1	0	1	X	INSERT SWM1 DATA INTO BIT 'AS6' (NEGATIVE-LOGIC)
1	1	0	F	COLOR FRAME LOCK IN FIELD 1
1	1	1	0	COLOR FRAME OFF
1	1	1	1	COLOR FRAME ON

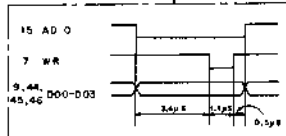
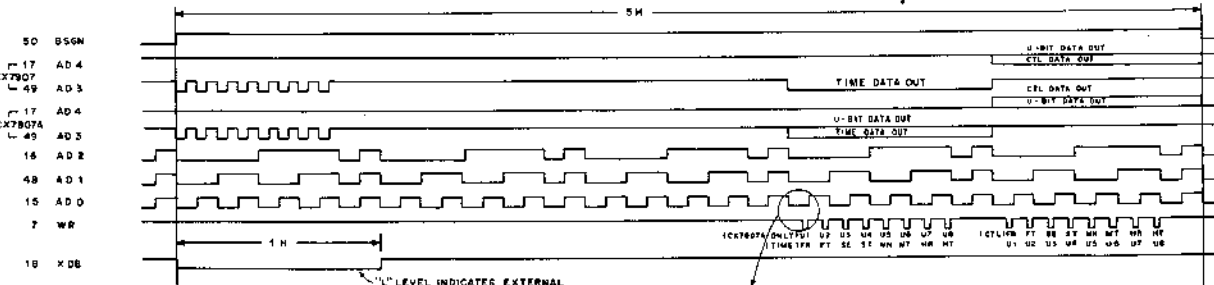
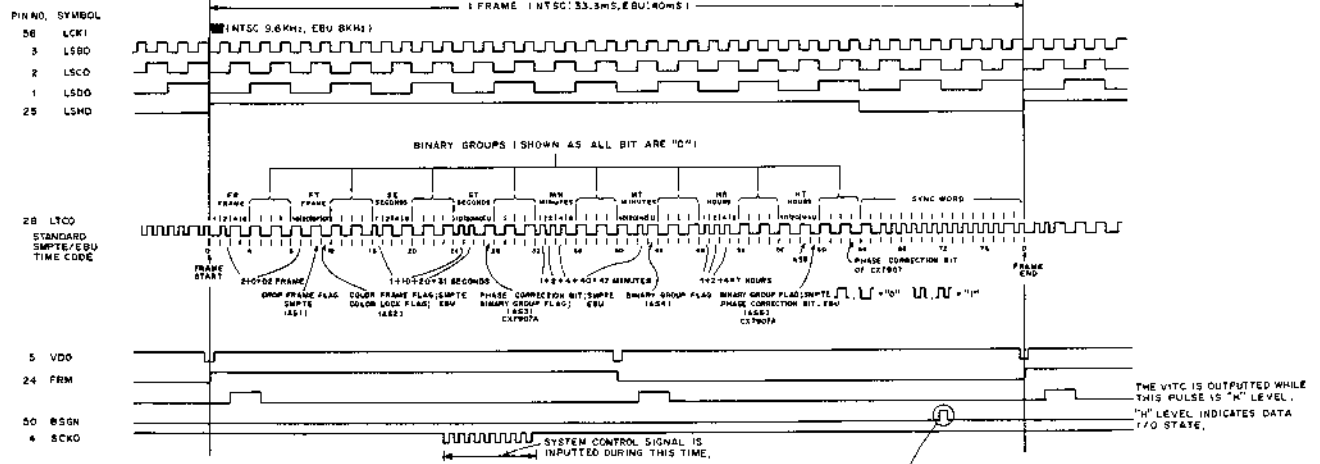
X: DON'T CARE.

ERROR BYPASS ALGORITHM

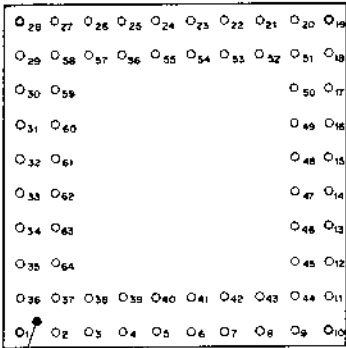


NOTE: ERROR COUNTER IS MOD-4 COUNTER.

TIMING CHART

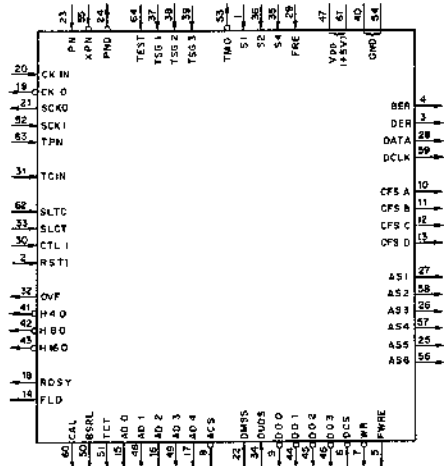


CX7912 (SONY)
 CX7912A (SONY)
 C-MOS TIME CODE READER
 — TOP VIEW —



PIN ASSIGNMENT

PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL		
1			S1	17			AD 4	33			SLCT		
2			RST1	18			RDSY	34			OUDS		
3			DER	19			CK C	35			S4		
4			BER	20			CK IN	36			S2		
5			FWRE	21			SCK0	37			TSG 1		
6			DCS	22			DMS5	38			TSG 2		
7			WR	23			PN	39			TSG 3		
8			ACS	24			PND	40			GMD		
9			D0 D	25			AS5	41			M40		
10			CFS A	26			AS3	42			M80		
11			CFS B	27			AS1	43			M160		
12			CFS C	28			DATA	44			D01		
13			CFS D	29			FRE	45			D02		
14			FLD	30			CTL I	46			D03		
15			AD D	31			TC IN	47			VDDP5V		
16			AD 2	32			OVF	48			AD 7		
											64		TEST



MODE SELECT

SLCT	SLTC	MODE
0	0	AUTO
0	1	TIME CODE
1	0	CTL
1	1	AUTO

CTL COUNT

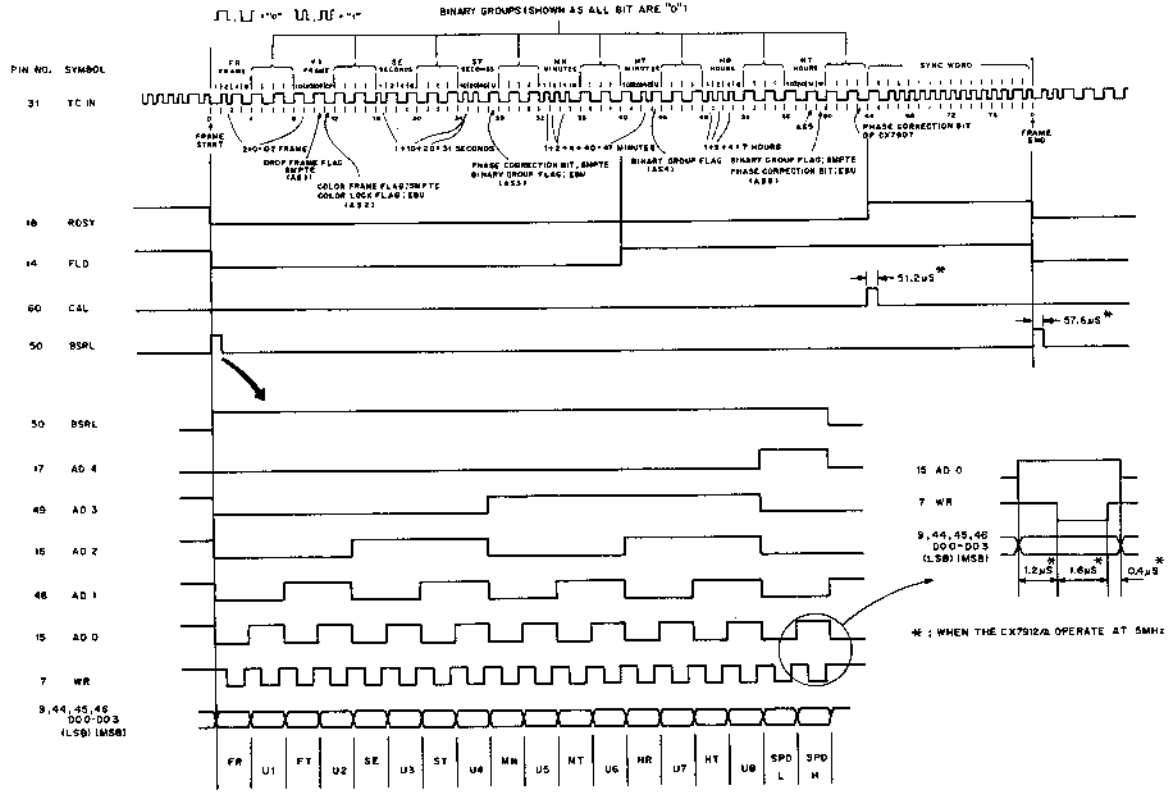
PRE	RST1	COUNT
0	X	DOWN COUNT
1	X	UP COUNT
X	1	RESET

SIGNAL FORMAT SELECT

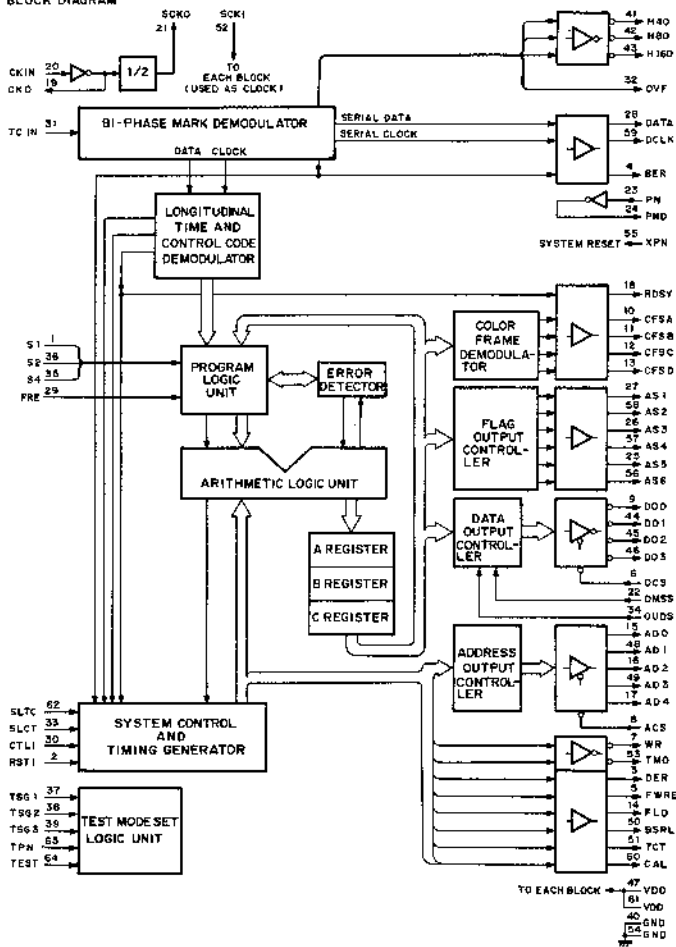
S1	S2	S3	FORMAT	FRAME
0	0	0	FILM	24
0	0	1	—	—
0	1	0	NOT ALLOWED	—
0	1	1	—	—
1	0	0	PAL, SECAM	28
1	0	1	NOT ALLOWED	—
1	1	0	NTSC (NON DROP FRAME)	30
1	1	1	NTSC (DROP FRAME)	30

0: LOW LEVEL
 1: HIGH LEVEL
 X: DON'T CARE

TIMING CHART



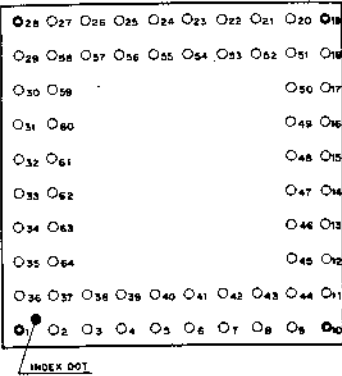
BLOCK DIAGRAM



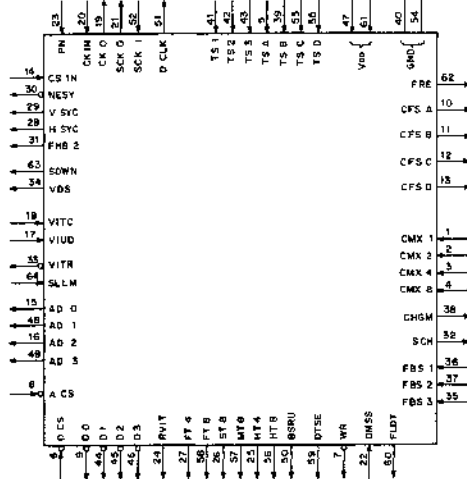
FUNCTIONAL PIN DEFINITION

Pin No.	SYMBOL	DESCRIPTION
8	ACE	ADDRESS LINE OUTPUT ENABLE (NEGATIVE-LOGIC)
15	ADD	ADDRESS DATA OUTPUT
48	AD1	ADDRESS DATA OUTPUT
16	AD2	ADDRESS DATA OUTPUT
49	AD3	ADDRESS DATA OUTPUT
17	AD4	ADDRESS DATA OUTPUT
27	AS1	PARALLEL DATA OUTPUT
58	AS2	PARALLEL DATA OUTPUT
26	AS3	PARALLEL DATA OUTPUT
57	AS4	PARALLEL DATA OUTPUT
25	AS5	PARALLEL DATA OUTPUT
56	AS6	PARALLEL DATA OUTPUT
4	BER	BI-PHASE MARK ERROR (BIT ERROR) OUTPUT
50	BSRL	DATA OUT FLAG OUTPUT
40	CAL	CALCULATE OUT FLAG OUTPUT
10	CFSB	DEMODULATED COLOR FRAME OUTPUT
11	CFSB	DEMODULATED COLOR FRAME OUTPUT
12	CFSB	DEMODULATED COLOR FRAME OUTPUT
13	CFSB	DEMODULATED COLOR FRAME OUTPUT
20	CKIN	CLOCK INPUT
19	CKD	CLOCK OUTPUT (NEGATIVE-LOGIC)
30	CTLI	CTL SIGNAL INPUT (1)
28	DATA	DEMODULATED SERIAL DATA OUTPUT
59	DCLK	DEMODULATED CLOCK OUTPUT
5	DCS	DATA LINE OUTPUT ENABLE (NEGATIVE-LOGIC)
3	DER	DEMODULATE DATA ERROR OUTPUT
22	DNSS	ASSIGNED DATA SELECT
9	DD0	DATA OUTPUT (NEGATIVE-LOGIC)
10	DD1	DATA OUTPUT (NEGATIVE-LOGIC)
11	DD2	DATA OUTPUT (NEGATIVE-LOGIC)
12	DD3	DATA OUTPUT (NEGATIVE-LOGIC)
14	FLD	FIELD DATA OUTPUT
29	FRE	CTL DIRECTION SIGNAL INPUT
5	FURZ	DEMODULATE DIRECTION SIGNAL OUTPUT
41	H40	SPEED RANGE FLAG 4 OUTPUT (NEGATIVE-LOGIC)
42	H80	SPEED RANGE FLAG 8 OUTPUT (NEGATIVE-LOGIC)
43	H160	SPEED RANGE FLAG 16 OUTPUT (NEGATIVE-LOGIC)
34	OVDS	ERROR BYPASS ON/OFF SELECT
32	OVF	OVERFLOW FLAG OUTPUT
23	PN	POWER ON SIGNAL INPUT
24	PND	POWER ON SIGNAL OUTPUT (NEGATIVE-LOGIC)
18	RDSY	READ SYNC WORD DATA OUTPUT
2	RST1	CTL TRNSE RESET INPUT (1)
1	S1	SIGNAL FORMAT SELECT S1
36	S2	SIGNAL FORMAT SELECT S2
35	S4	SIGNAL FORMAT SELECT S4
52	SCF1	SYSTEM CLOCK INPUT
21	SCK0	SYSTEM CLOCK OUTPUT
15	SLCT	SELECT CTL INPUT
62	SLTC	SELECT LTC INPUT
55	SR	SYSTEM RESET SIGNAL INPUT (NEGATIVE-LOGIC)
31	TCIN	LONGITUDINAL TIME AND CONTROL CODE INPUT
53	TMO	TIME OVER SIGNAL OUTPUT (NEGATIVE-LOGIC)
7	WR	WRITE SIGNAL OUTPUT (NEGATIVE-LOGIC)
47	VDD	POWER LINE (+5V)
61	VDD	POWER LINE (+5V)
40	GND	GND LINE
54	GND	GND LINE
64	TEST	TEST MODE SET INPUT (TO BE CONNECTED WITH GND)
63	TPN	TEST MODE SET INPUT (TO BE CONNECTED WITH GND)
37	TSG1	TEST MODE SET INPUT (TO BE CONNECTED WITH GND)
38	TSG2	TEST MODE SET INPUT (TO BE CONNECTED WITH GND)
39	TSG3	TEST MODE SET INPUT (TO BE CONNECTED WITH GND)

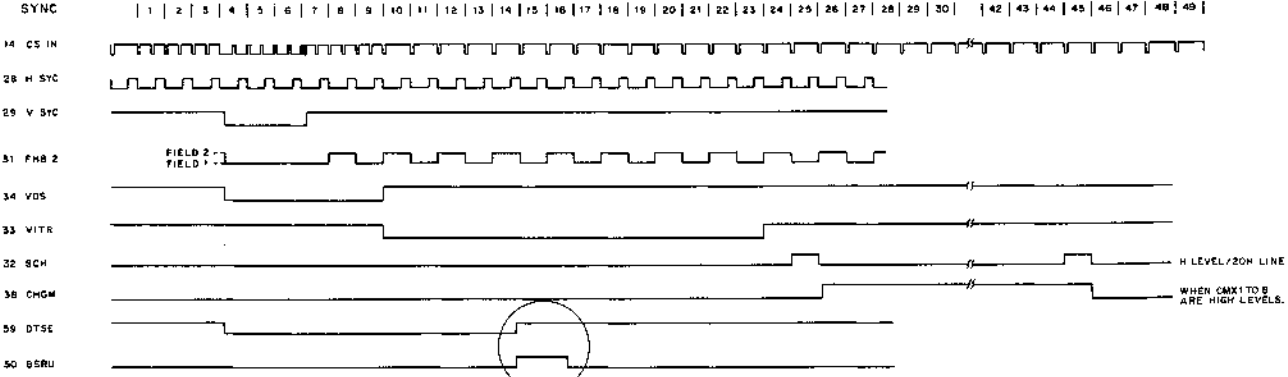
CX7913 (SONY)
C-MOS VITC (VERTICAL INTERVAL TIME CODE) READER
- TOP VIEW -



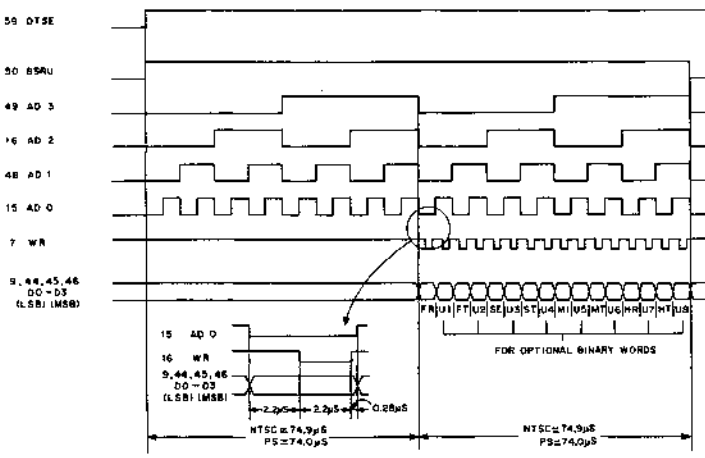
PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL
1			CMX 1	17			VIUD	33			VITR	45			AD 3
2			CMX 2	18			VITC	34			VDS	50			BSRU
3			CMX 4	19			CK 0	35			FBS 3	51			D CLK
4			CMX B	20			CK IN	36			FBS 1	52			SCK 1
5			TS A	21			SCK 0	37			FBS 2	53			TS C
6			D CS	22			DMES	38			CHGM	54			GND
7			WR	23			PN	39			TS B	55			TS D
8			ACS	24			RVIT	40			GND	56			HT B
9			D 0	25			HT A	41			TS 1	57			MT B
10			CFS A	26			FT B	42			TS 2	58			FT B
11			CFS B	27			FT A	43			TS 3	59			DTSE
12			CFS C	28			H SYNC	44			D 1	60			FLGT
13			CFS D	29			V SYNC	45			D 2	61			VDD(SV)
14			CS IN	30			NESY	46			D 3	62			FRE
15			AD 0	31			FHB 2	47			VDD(SV)	63			SDWN
16			AD 2	32			SCH	48			AD 1	64			SLLM



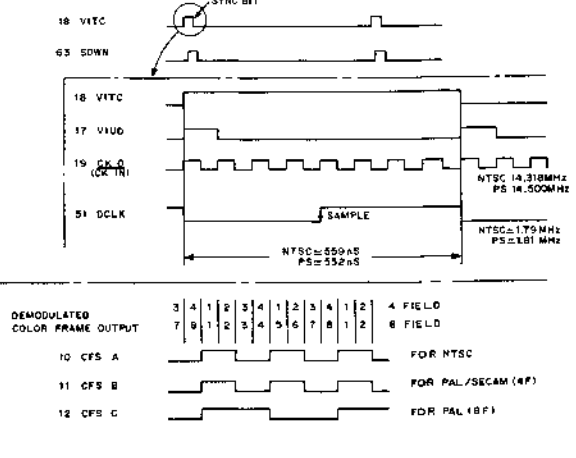
TIMING CHART



DATA OUTPUT



DEMODULATED



#36,37,35 FBS1 - FBS3 FIELD BIT DATA SELECT

FBS 3	FBS 2	FBS 1	#60 FLDT OUTPUTS
0	0	0	FT 4
0	0	1	FT B
0	1	0	ST B
0	1	1	MT B
1	0	0	HT 4
1	0	1	HT B
1	1	0	
1	1	1	

#1,2,3,4 CHARACTER MIX TIMING SELECT

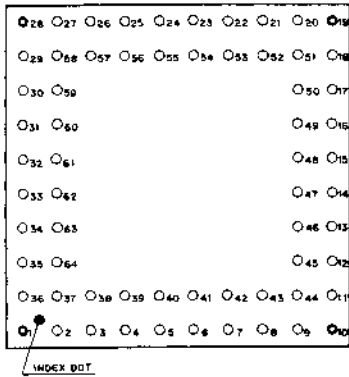
CMX B	CMX 4	CMX 2	CMX 1	INSERTION LINES(#36 CHGM IS HIGH)	
				NTSC	PAL/SECAM
0	0	0	0		
0	0	0	1		
0	0	1	0		
0	0	1	1		263 ~ 282, 575 ~ 594
0	1	0	0	246 ~ 265	243 ~ 262, 555 ~ 574
0	1	0	1	228 ~ 245	223 ~ 242, 535 ~ 554
0	1	1	0	206 ~ 225	203 ~ 222, 515 ~ 534
0	1	1	1	188 ~ 205	183 ~ 202, 495 ~ 514
1	0	0	0	166 ~ 185	163 ~ 182, 475 ~ 494
1	0	0	1	146 ~ 165	143 ~ 162, 455 ~ 474
1	0	1	0	126 ~ 145	123 ~ 142, 435 ~ 454
1	0	1	1	106 ~ 125	103 ~ 122, 415 ~ 434
1	1	0	0	86 ~ 105	83 ~ 102, 395 ~ 414
1	1	0	1	66 ~ 85	63 ~ 82, 375 ~ 394
1	1	1	0	46 ~ 65	43 ~ 62, 355 ~ 374
1	1	1	1	26 ~ 45	23 ~ 42, 335 ~ 354

NOTE 0: LOW LEVEL
1: HIGH LEVEL

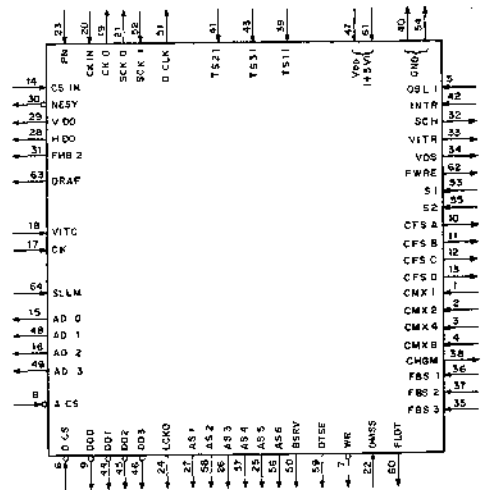
FUNCTIONAL PIN DEFINITION

Pin No.	SYMBOL	DESCRIPTION
8	ACS	ADDRESS LINE CHIP SELECT #INPUT (NEGATIVE LOGIC)
15	AD 0	ADDRESS LINE
48	AD 1	
16	AD 2	
49	AD 3	
50	SBPO	DATA BUS OUTPUT STATE
10	CPS A	DEMODULATED COLOR FRAME OUTPUT
11	CPS B	
12	CPS C	
13	CPS D	
36	CHGM	CHARACTER MIX GATE SIG OUTPUT
20	CK IN	CLOCK IN
19	CK O	CLOCK OUT
1	CMX 1	CHARACTER MIX TIMING SELECT INPUT
2	CMX 2	
3	CMX 4	
4	CMX B	
14	CS IN	COMPOSITE SYNC (C SYND) INPUT
51	CLK	DATA SAMPLING CLOCK OUTPUT
6	CS	DATA LINE CHIP SELECT (NEGATIVE LOGIC)
22	OMSE	DATA MIX/SEPARATE SELECT INPUT
9	D 0	PARALLEL OUTPUT DATA LINE (NEGATIVE LOGIC)
44	D 1	
45	D 2	
46	D 3	
69	DTSE	VALID DATA OUTPUT STATE
36	FBS 1	FIELD BIT DATA SELECT
37	FBS 2	
35	FBS 3	
31	FBS 4	
69	FLDT	FIELD BIT DATA OUTPUT
82	FR2	FORWARD/REVERSE OUTPUT (LOW LEVEL, FORWARD)
27	FT 4	SPECIFIED BIT DATA OUTPUT
58	FT B	
28	HT 4	
25	HT B	
56	HT 8	SPECIFIED BIT DATA OUTPUT
57	MT B	C SYNC INPUT STATE (NEGATIVE LOGIC)
20	RESV	
23	RN	
24	RVIT	
22	SCF	CHARACTER MIX GATE OUTPUT
21	SCK 0	SYSTEM CLOCK OUTPUT (1/16 CLOCK)
62	SCK 1	SYSTEM CLOCK INPUT
63	SDWN	INTERNAL SYNC OUTPUT
64	SLLM	READ SIZE SELECT
26	ST B	SPECIFIED BIT DATA OUTPUT
34	VDS	INTERNAL SYNC OUTPUT
18	VITC	CLIPPED VIDEO INPUT
33	VITR	VITC READ STATE OUTPUT (NEGATIVE LOGIC)
17	VIED	CLIPPED VIDEO EDGE INPUT
29	VSYC	V SYNC OUTPUT
7	WR	WRITE SIGNAL OUTPUT (NEGATIVE LOGIC)
47	VDD	QC +5V SUPPLY
51	VDD	
40	GND	
54	GND	
41	TS 1	GROUND REFERENCE
42	TS 2	
43	TS 3	
5	TS A	
39	TS B	
61	TS C	TEST INPUT (CONNECT WITH GND)
55	TS D	

CX7513A (SONY)
 C-MOS VITC (VERTICAL INTERVAL TIME CODE) READER
 - TOP VIEW -

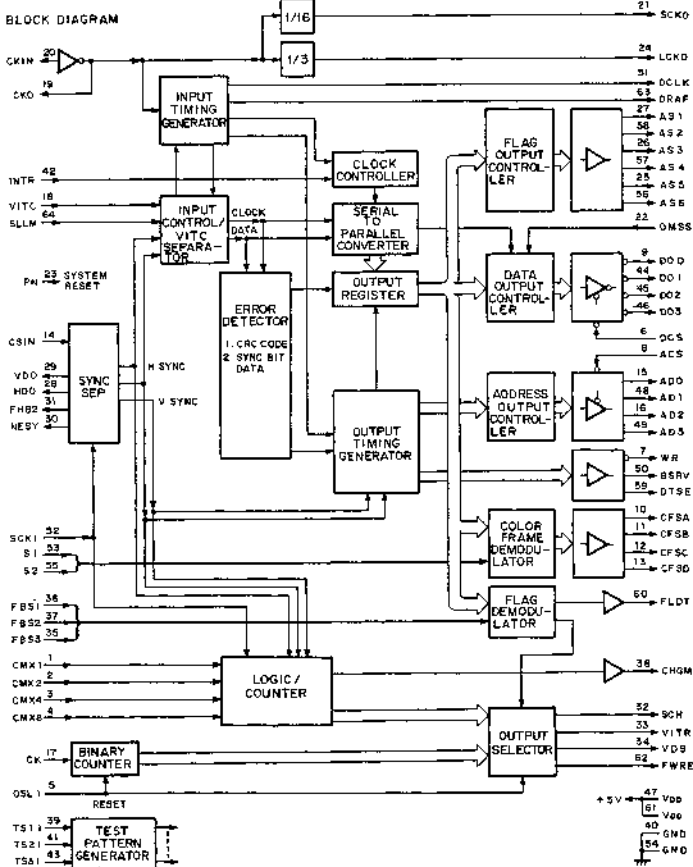


Pin No.	IN	OUT	Symbol	Pin No.	IN	OUT	Symbol	Pin No.	IN	OUT	Symbol
1	Q		CMX 1	17	Q		CK	33	Q		VITR
2	Q		CMX 2	18	Q		VITC	34	Q		VDS
3	Q		CMX 4	19	Q		CK O	35	Q		FBS 3
4	Q		CMX 8	20	Q		CK IN	36	Q		FBS 1
5	Q		OSL 1	21	Q		SCK O	37	Q		FBS 2
6	Q		D CS	22	Q		DMSS	38	Q		CHGM
7	Q		WR	23	Q		PN	39	Q		TS11
8	Q		A CS	24	Q		LCKO	40	Q		GND
9	Q		DO 0	25	Q		AS 5	41	Q		TS21
10	Q		CFS A	26	Q		AS 3	42	Q		INTR
11	Q		CFS B	27	Q		AS 1	43	Q		TS11
12	Q		CFS C	28	Q		HDD	44	Q		DO 1
13	Q		CFS D	29	Q		VDD	45	Q		DO 2
14	Q		CS IN	30	Q		NESY	46	Q		DO 3
15	Q		AD 0	31	Q		FHB 2	47	Q		VDDH-5V1
16	Q		AD 2	32	Q		SCK	48	Q		AD 1
17	Q		CMX 1	1	Q		AD 3	49	Q		AD 2
18	Q		CMX 2	2	Q		AD 0	15	Q		AD 3
19	Q		CMX 4	3	Q		AD 1	16	Q		AD 0
20	Q		CMX 8	4	Q		AD 2	17	Q		AD 1
21	Q		OSL 1	5	Q		AD 3	18	Q		AD 2
22	Q		D CS	6	Q		AD 0	15	Q		AD 3
23	Q		WR	7	Q		AD 1	16	Q		AD 0
24	Q		A CS	8	Q		AD 2	17	Q		AD 1
25	Q		DO 0	9	Q		AD 3	18	Q		AD 2
26	Q		CFS A	10	Q		AD 0	15	Q		AD 3
27	Q		CFS B	11	Q		AD 1	16	Q		AD 0
28	Q		CFS C	12	Q		AD 2	17	Q		AD 1
29	Q		CFS D	13	Q		AD 3	18	Q		AD 2
30	Q		CS IN	14	Q		AD 0	15	Q		AD 3
31	Q		FHB 2	15	Q		AD 1	16	Q		AD 0
32	Q		SCK	16	Q		AD 2	17	Q		AD 1
33	Q		CK	17	Q		AD 3	18	Q		AD 2
34	Q		VITC	18	Q		AD 0	15	Q		AD 3
35	Q		FBS 3	19	Q		AD 1	16	Q		AD 0
36	Q		FBS 1	20	Q		AD 2	17	Q		AD 1
37	Q		FBS 2	21	Q		AD 3	18	Q		AD 2
38	Q		CHGM	22	Q		AD 0	15	Q		AD 3
39	Q		TS11	23	Q		AD 1	16	Q		AD 0
40	Q		GND	24	Q		AD 2	17	Q		AD 1
41	Q		TS21	25	Q		AD 3	18	Q		AD 2
42	Q		INTR	26	Q		AD 0	15	Q		AD 3
43	Q		TS11	27	Q		AD 1	16	Q		AD 0
44	Q		DO 1	28	Q		AD 2	17	Q		AD 1
45	Q		DO 2	29	Q		AD 3	18	Q		AD 2
46	Q		DO 3	30	Q		AD 0	15	Q		AD 3
47	Q		VDDH-5V1	31	Q		AD 1	16	Q		AD 0
48	Q		AD 1	32	Q		AD 2	17	Q		AD 1
49	Q		AD 2	33	Q		AD 3	18	Q		AD 2
50	Q		AS 5	34	Q		AD 0	15	Q		AD 3
51	Q		AS 3	35	Q		AD 1	16	Q		AD 0
52	Q		AS 1	36	Q		AD 2	17	Q		AD 1
53	Q		AS 5	37	Q		AD 3	18	Q		AD 2
54	Q		CHGM	38	Q		AD 0	15	Q		AD 3
55	Q		DTSE	39	Q		AD 1	16	Q		AD 0
56	Q		AS 6	40	Q		AD 2	17	Q		AD 1
57	Q		AS 4	41	Q		AD 3	18	Q		AD 2
58	Q		AS 2	42	Q		AD 0	15	Q		AD 3
59	Q		AS 3	43	Q		AD 1	16	Q		AD 0
60	Q		AS 4	44	Q		AD 2	17	Q		AD 1
61	Q		AS 5	45	Q		AD 3	18	Q		AD 2
62	Q		AS 6	46	Q		AD 0	15	Q		AD 3
63	Q		AS 7	47	Q		AD 1	16	Q		AD 0
64	Q		AS 8	48	Q		AD 2	17	Q		AD 1



FUNCTIONAL PIN DEFINITION

Pin No.	SYMBOL	DESCRIPTION
8	ACB	ADDRESS LINE ENABLE INPUT
15	ADD	ADDRESS LINE ENABLE INPUT
48	AD1	ADDRESS DATA OUTPUT
16	AD2	ADDRESS DATA OUTPUT
49	AD3	ADDRESS DATA OUTPUT
27	AS1	PARALLEL DATA OUTPUT
58	AS2	PARALLEL DATA OUTPUT
26	AS3	PARALLEL DATA OUTPUT
57	AS4	PARALLEL DATA OUTPUT
25	AS5	PARALLEL DATA OUTPUT
56	AS6	PARALLEL DATA OUTPUT
59	AS7	PARALLEL DATA OUTPUT
50	AS8	PARALLEL DATA OUTPUT
51	AS9	PARALLEL DATA OUTPUT
52	AS10	PARALLEL DATA OUTPUT
53	AS11	PARALLEL DATA OUTPUT
54	AS12	PARALLEL DATA OUTPUT
55	AS13	PARALLEL DATA OUTPUT
56	AS14	PARALLEL DATA OUTPUT
57	AS15	PARALLEL DATA OUTPUT
58	AS16	PARALLEL DATA OUTPUT
59	AS17	PARALLEL DATA OUTPUT
60	AS18	PARALLEL DATA OUTPUT
61	AS19	PARALLEL DATA OUTPUT
62	AS20	PARALLEL DATA OUTPUT
63	AS21	PARALLEL DATA OUTPUT
64	AS22	PARALLEL DATA OUTPUT
2	CMX1	CHARACTER V POSITION SELECT INPUT
1	CMX4	CHARACTER V POSITION SELECT INPUT
14	CMX8	COMPOSITE SYNC INPUT
14	CSIN	VITC READ CLOCK INPUT
51	DCLK	DATA LINE ENABLE INPUT
6	DCE	DATA LINE ENABLE INPUT
22	DMSS	ASSIGNED BIT DATA SELECT INPUT
10	DO3	DATA OUT (NEGATIVE-LOGIC)
44	DO1	DATA OUT (NEGATIVE-LOGIC)
45	DO2	DATA OUT (NEGATIVE-LOGIC)
46	DO3	DATA OUT (NEGATIVE-LOGIC)
6	DO5	DATA OUT (NEGATIVE-LOGIC)
63	DRAF	VITC SYNCHRONISE SIGNAL D OUTPUT
59	DTSE	VITC DATA SEARCH FLAG OUTPUT
36	FBS1	FIELD MARK POSITION SELECT 1 INPUT
37	FBS2	FIELD MARK POSITION SELECT 2 INPUT
35	FBS3	FIELD MARK POSITION SELECT 3 INPUT
33	FHB2	FR/2 SIGNAL OUTPUT
60	FLDT	FIELD DATA OUTPUT
62	FWRE	TAPE DIRECTION SIGNAL OUTPUT
28	HDD	HORIZONTAL SYNC DRIVE OUTPUT
42	INTR	INTERRUPT REQUEST INPUT
24	LCKO	ETC CLOCK OUTPUT
30	NEST	LOCK-SYNC FLAG OUTPUT
5	OSL1	OUTPUT SIGNAL SELECT 1 INPUT
23	PN	POWER ON RESET INPUT
53	S1	SIGNAL FORMAT SELECT S1 INPUT
52	S2	SIGNAL FORMAT SELECT S2 INPUT
32	SCH	OUTPUT SIGNAL SCH
52	SCRI	SYSTEM CLOCK INPUT
21	SCRO	SYSTEM CLOCK OUTPUT
64	SLLM	READ SIZE SELECT INPUT
29	VDD	VERTICAL SYNC DRIVE OUTPUT
34	VDS	OUTPUT SIGNAL VDS
19	VITC	VITC SIGNAL INPUT
33	VITR	OUTPUT SIGNAL VITR
7	WR	WRITE SIGNAL OUTPUT (NEGATIVE-LOGIC)
47	VDD	POWER LINE (+5V)
63	VDS	POWER LINE (+5V)
40	GND	GND LINE
54	GND	GND LINE
39	TS11	TEST INPUT
42	TS21	TEST INPUT
61	TS31	TEST INPUT



#1,2,3,4 CMX1 TO 8; CHARACTER V POSITION SELECT

CMX8	CMX4	CMX2	CMX1	INSERTION LINE (#38 CHGM IS H LEVEL)	
				NTSC	PAL/SECAM
0	0	0	0	---	---
0	0	0	1	---	284-303
0	0	0	1	---	596-615
0	0	1	0	---	264-283
0	0	1	0	---	575-595
0	0	1	1	---	244-263
0	0	1	1	---	556-575
0	1	0	0	227-246	224-243
0	1	0	0	536-555	536-555
0	1	0	1	207-226	204-223
0	1	0	1	516-535	516-535
0	1	1	0	187-206	184-203
0	1	1	0	496-515	496-515
0	1	1	1	167-186	164-183
0	1	1	1	476-495	476-495
1	0	0	0	147-166	144-163
1	0	0	0	456-475	456-475
1	0	0	1	127-146	124-143
1	0	0	1	436-455	436-455
1	0	1	0	107-126	104-123
1	0	1	0	416-435	416-435
1	0	1	1	87-106	84-103
1	0	1	1	396-415	396-415
1	1	0	0	67-86	64-83
1	1	0	0	376-395	376-395
1	1	0	1	47-66	44-63
1	1	0	1	356-375	356-375
1	1	1	0	27-46	24-43
1	1	1	0	336-355	336-355
1	1	1	1	---	---

#36,37,35 FBS1 TO FBS3; FIELD DATA SELECT

FBS3	FBS2	FBS1	#50 FLDT OUTPUT
0	0	0	AS1 (VITC BIT No.14)
0	0	1	AS2 (VITC BIT No.15)
0	1	0	AS3 (VITC BIT No.35)
0	1	1	AS4 (VITC BIT No.55)
1	0	0	AS5 (VITC BIT No.74)
1	0	1	AS6 (VITC BIT No.75)
1	1	0	---
1	1	1	---

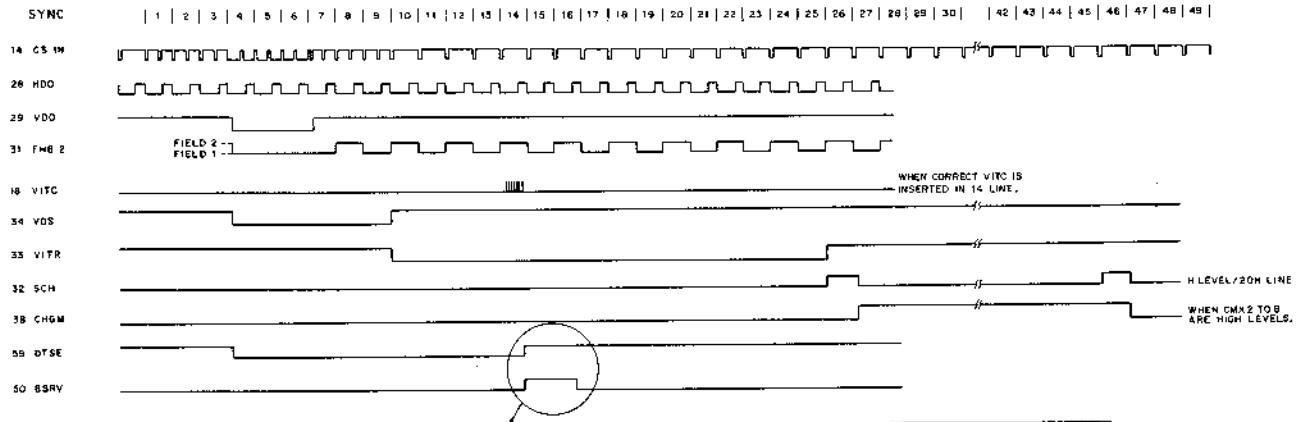
#53,55 S1,S2; SIGNAL FORMAT SELECT

S2	S1	#13 CFSD FORMAT
0	0	UNSPECIFIED
0	1	UNSPECIFIED
1	0	NTSC NON DROP FRAME
1	1	NTSC DROP FRAME

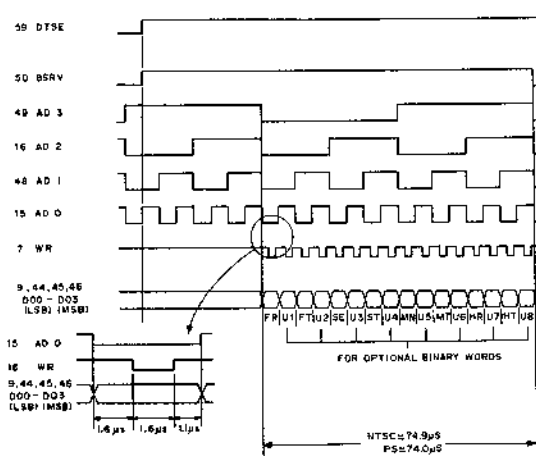
0; LOW LEVEL
1; HIGH LEVEL

TIMING CHART

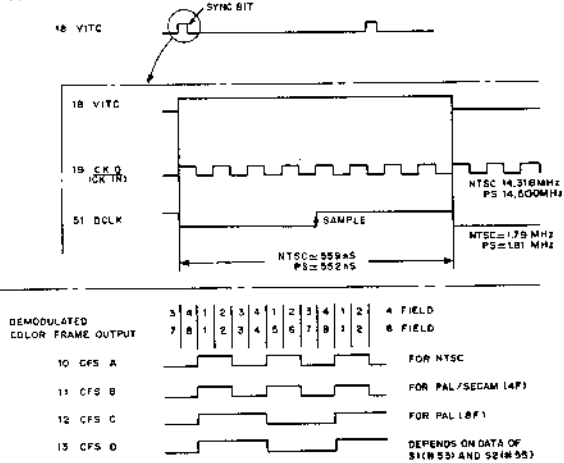
SYNC



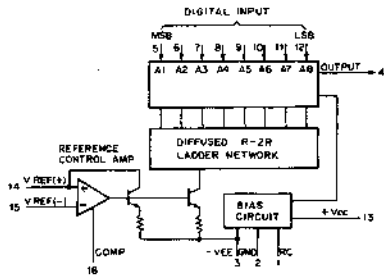
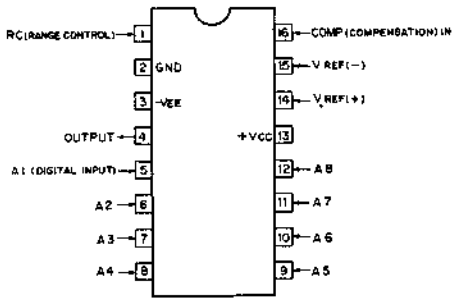
DATA OUTPUT



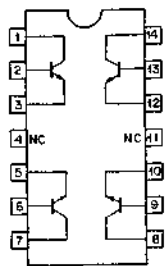
DEMODULATED



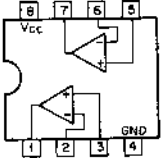
DAC- IC08C (DATEL)
8-BIT DIGITAL-TO-ANALOG CONVERTER
-TOP VIEW-



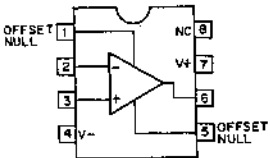
FT5709M (FUJITSU)
TRANSISTOR ARRAY
-TOP VIEW-



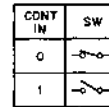
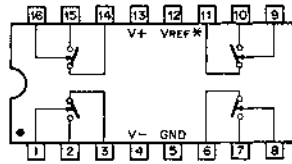
HA17458GS (HITACHI)
OPERATIONAL AMPLIFIER
-TOP VIEW-



HA17741GS (HITACHI)
OPERATIONAL AMPLIFIER
-TOP VIEW-



H11-201 (HARRIS)
C-MOS ANALOG SWITCH
-TOP VIEW-



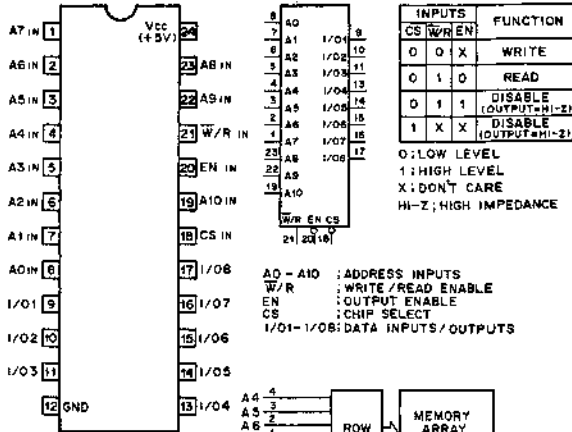
0: LOW LEVEL
1: HIGH LEVEL

* NOTE

INTERFACE	VREF CONNECTION
TTL	OPEN
C-MOS	VDD ≤ 5.5V; OPEN
	VDD > 5.5V; TO VDD

- HM6116LP-2 (HITACHI) (ACCESS TIME * 120 ns)
- HM6116LP-3 (HITACHI) (ACCESS TIME * 150 ns)
- HM6116LP-4 (HITACHI) (ACCESS TIME * 200 ns)
- MSM5128-12RS (OKI) (ACCESS TIME * 120 ns)
- MSM5128-15RS (OKI) (ACCESS TIME * 150 ns)
- MSM5128-20RS (OKI) (ACCESS TIME * 200 ns)
- C-MOS 16384(2048x8)-BIT HIGH SPEED STATIC RAM

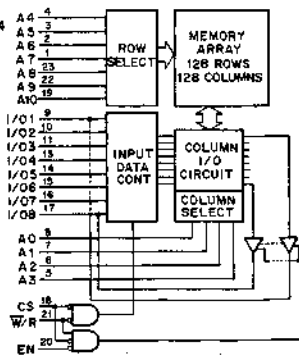
-TOP VIEW-



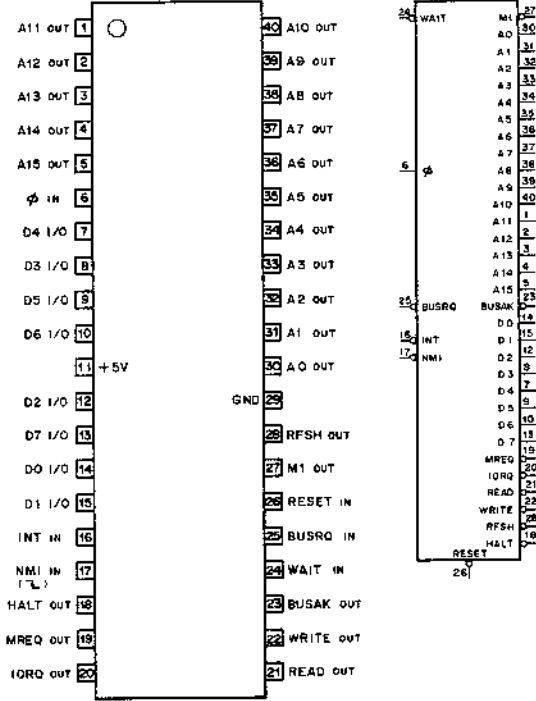
INPUTS		FUNCTION
D	W/R	
0	0	X
0	1	WRITE
0	1	0
0	1	1
1	X	1
1	X	X

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE
HI-Z: HIGH IMPEDANCE

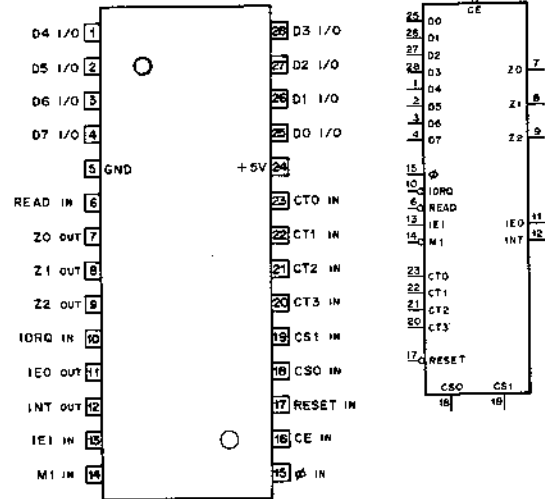
A0 - A10 : ADDRESS INPUTS
W/R : WRITE / READ ENABLE
EN : OUTPUT ENABLE
CS : CHIP SELECT
I/O1 - I/O18: DATA INPUTS / OUTPUTS



LH0080 (SHARP)
 LH0080A (SHARP)
 JPD780C (NEC)
 JPD780C-1(NEC)
 Z80 (ZILOG)
 Z80A (ZILOG)
 N-MOS 8-BIT MICROPROCESSOR
 - TOP VIEW -



LH0082 (SHARP)
 LH0082A (SHARP)
 Z80-CTC (ZILOG)
 Z80A-CTC (ZILOG)
 N-MOS COUNTER TIMER CIRCUIT
 - TOP VIEW -

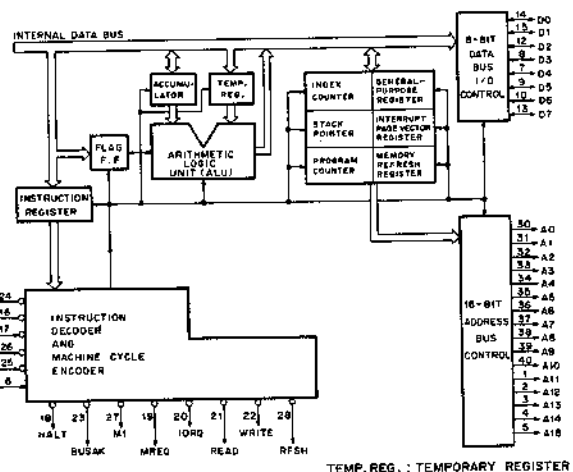


phi : SYSTEM CLOCK
 CE : CHIP ENABLE
 CS0, CS1 : CHANNEL SELECT
 CTO-CT3 : EXTERNAL CLOCK/TIMER TRIGGER
 D0-D7 : 3-STATE DATA INPUT/OUTPUT
 IE1 : INTERRUPT ENABLE INPUT
 IEO : INTERRUPT ENABLE OUTPUT
 INT : INTERRUPT REQUEST (OPEN DRAIN)
 IORQ : I/O REQUEST
 M1 : MACHINE CYCLE 1
 READ : READ CYCLE STATUS
 Z0-Z2 : ZERO COUNT/TIME OUT

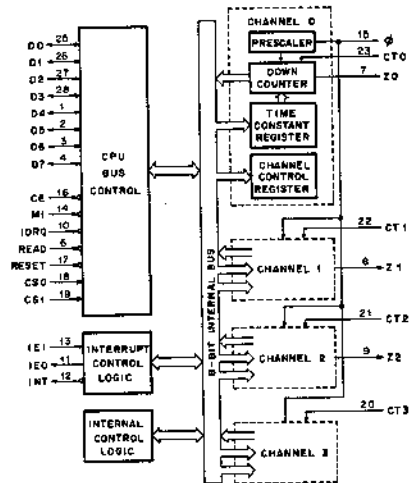
CHANNEL SELECT FUNCTION

CS1	CS0	SELECTED CHANNEL
0	0	0
0	1	1
1	0	2
1	1	3

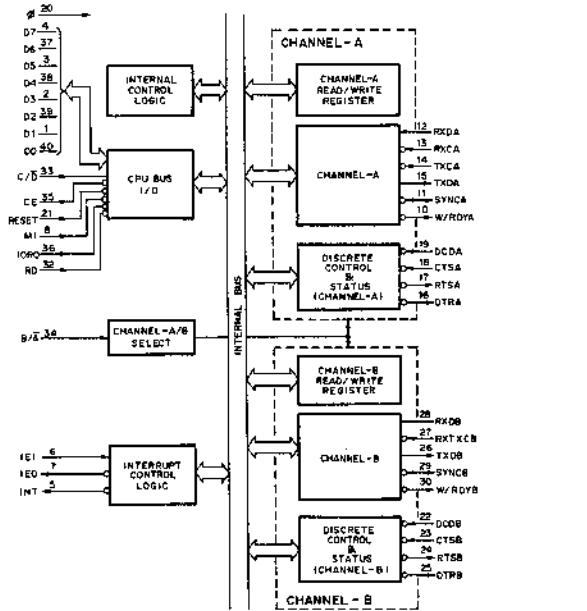
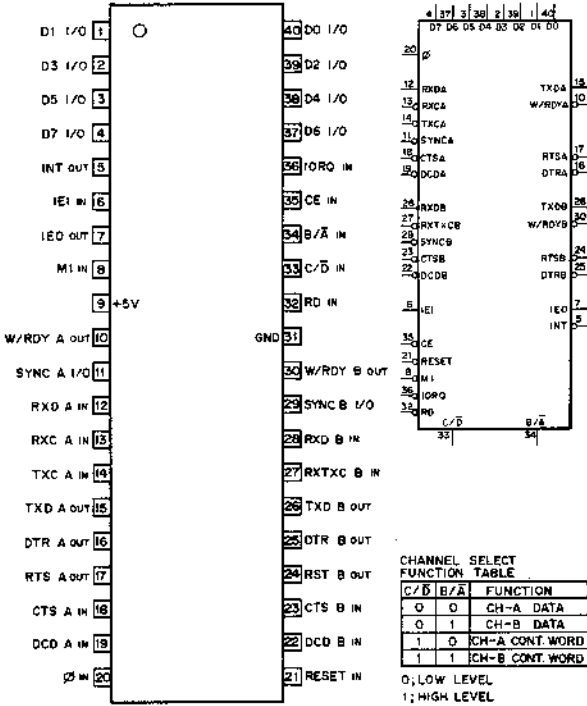
0: LOW LEVEL
 1: HIGH LEVEL



phi : CLOCK
 A0-A15 : 3-STATE ADDRESS OUTPUT
 BUSAK : BUS ACKNOWLEDGE
 BUSRQ : BUS REQUEST
 D0-D7 : 3-STATE DATA INPUT/OUTPUT
 HALT : HALT STATE
 INT : INTERRUPT REQUEST
 IORQ : 3-STATE I/O REQUEST
 M1 : MACHINE CYCLE 1
 MREQ : 3-STATE MEMORY REQUEST
 NMI : NON-MASKABLE INTERRUPT (DOWN EDGE TRIGGER)
 READ : 3-STATE MEMORY READ
 RFSH : REFRESH
 WRITE : 3-STATE MEMORY WRITE

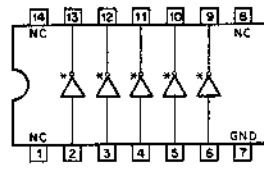


LH00B4 (SHARP)
 LH00B4A (SHARP)
 Z80-SIO/O (ZILOG)
 Z80A-SIO/O (ZILOG)
 N-MOS 2-CHANNEL SERIAL INPUT/OUTPUT
 FOR MICROCOMPUTER SYSTEM
 - TOP VIEW -

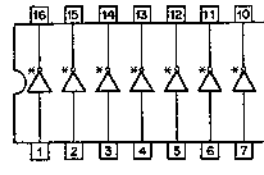


- ∅ : SYSTEM CLOCK IN
- D7-DO : DATA I/O
- C/D : CONTROL / DATA SELECT IN
- CE : CHIP ENABLE IN
- M1 : MACHINE CYCLE 1 IN
- IORQ : I/O REQUEST IN
- RD : READ IN
- B/A : CHANNEL B/A SELECT IN
- IEI : INTERRUPT ENABLE IN
- IEO : INTERRUPT ENABLE OUT
- INT : INTERRUPT OUT
- RXD : RECEIVE DATA IN
- RXC : RECEIVE CLOCK IN
- TXC : TRANSMIT CLOCK IN
- TXD : TRANSMIT DATA OUT
- SYNC : EXTERNAL CHARACTER SYNCHRONIZATION I/O
- W/RDY : WAIT / READY OUT
- DCD : DATA CARRIER DETECT IN
- CTS : CLEAR TO SEND IN
- RTS : REQUEST TO SEND OUT
- DTR : DATA TERMINAL READY OUT

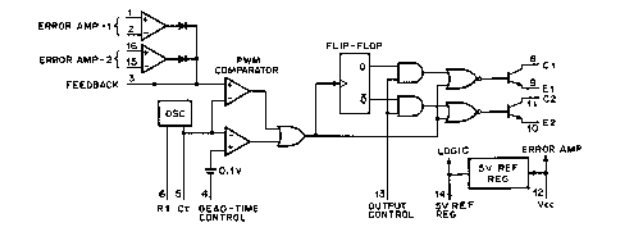
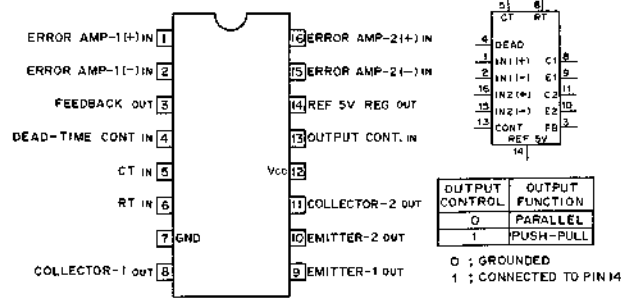
M54516P (MITSUBISHI)
 INVERTER WITH OPEN-COLLECTOR
 (DARLINGTON-CONNECTED TRANSISTOR ARRAY)
 - TOP VIEW -



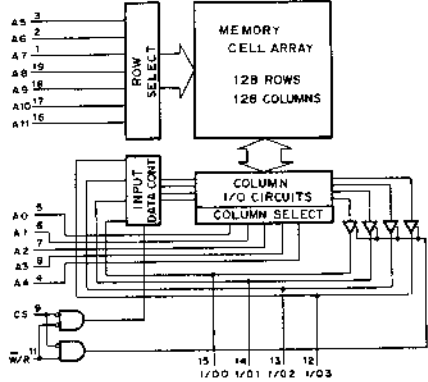
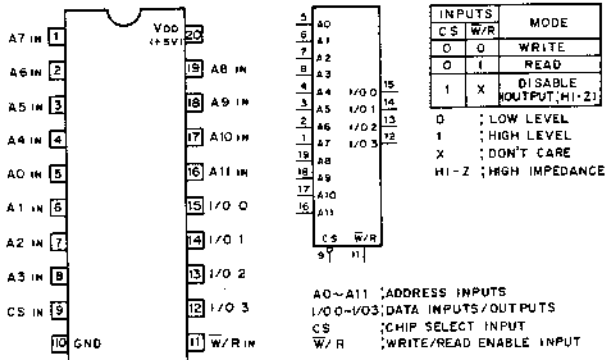
M54517P (MITSUBISHI)
 INVERTER WITH OPEN-COLLECTOR
 (DARLINGTON-CONNECTED TRANSISTOR ARRAY)
 - TOP VIEW -



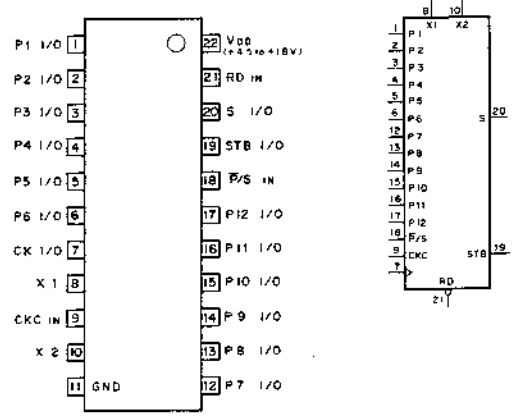
MB3759 (FUJITSU)
 PWM POWER CONTROL
 - TOP VIEW -



MB8168-45 (FUJITSU) (ACCESS TIME = 45 nS)
 MB8168-55 (FUJITSU) (ACCESS TIME = 55 nS)
 MB8168-70 (FUJITSU) (ACCESS TIME = 70 nS)
 MB8168-90 (FUJITSU) (ACCESS TIME = 90 nS)
 N-MOS 16384-BIT(4096x4) STATIC RAM
 — TOP VIEW —



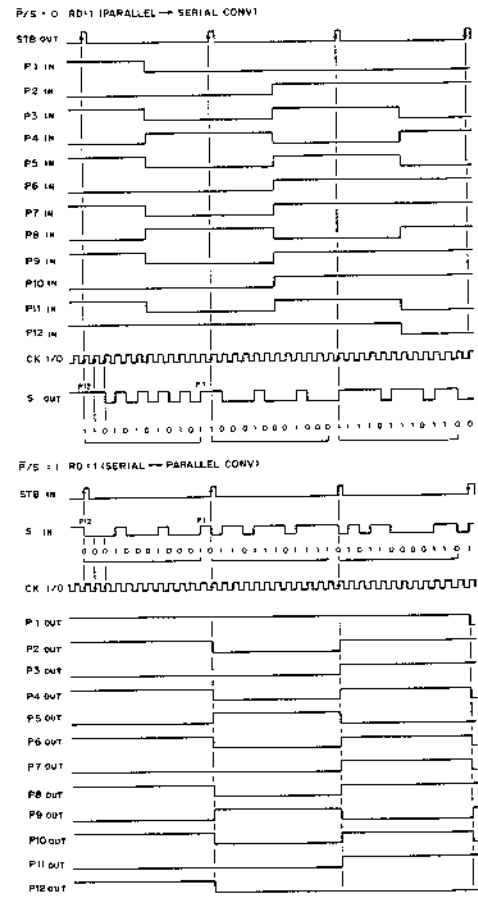
MB8747 (FUJITSU)
 C-MOS SERIAL TO/FROM PARALLEL CONVERTER WITH OSCILLATOR
 — TOP VIEW —



P1 to P12 ; PARALLEL DATA IN/OUT
 CK ; CLOCK IN/OUT
 CKC ; CLOCK I/O CONTROL IN
 X1, X2 ; X'TAL
 P/S ; PARALLEL/SERIAL CONTROL IN
 STB ; STROBE
 S ; SERIAL DATA IN/OUT

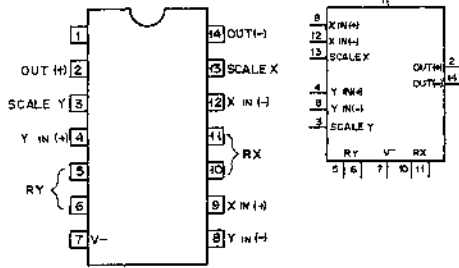
CKC	CK	RD	P/S	MODE	P1toP12	S	STB
0	OUT	0	0	OPEN	IN	HI-Z	OUT
0	IN	0	1	RESET	0	IN	IN
1	0	1	0	P → S	IN	OUT	OUT
1	1	1	1	S → P	OUT	IN	IN

0 ; LOW LEVEL
 1 ; HIGH LEVEL
 HI-Z ; HIGH IMPEDANCE
 P → S ; PARALLEL → SERIAL CONV
 S → P ; SERIAL → PARALLEL CONV



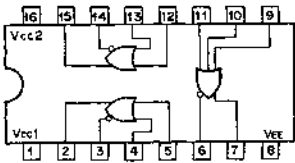
MC1595L (MOTOROLA)
LINEAR MULTIPLIER

—TOP VIEW—



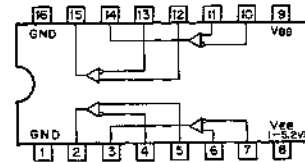
MC10105L (MOTOROLA)
HD10105 (HITACHI)
ECL 2-3-2-INPUT OR/NOR GATE

—TOP VIEW—



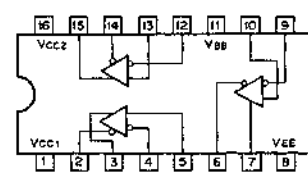
MC10115L (MOTOROLA)
ECL LINE RECEIVER

—TOP VIEW—



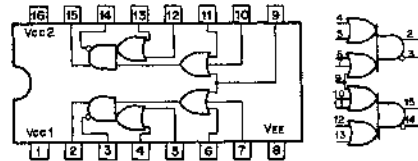
MC10116L (MOTOROLA)
HD10116 (HITACHI)
ECL DIFFERENTIAL OR/NOR LINE RECEIVER

—TOP VIEW—



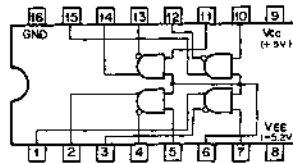
MC10117L (MOTOROLA)
HD10117 (HITACHI)
ECL 2-WIDE 2-3-INPUT OR-AND/OR-AND-INVERT GATE

—TOP VIEW—



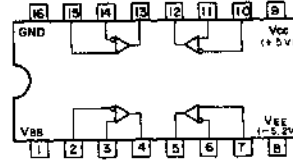
MC10124L (MOTOROLA)
HD10124 (HITACHI)
ECL TTL-TO-ECL TRANSLATOR

—TOP VIEW—



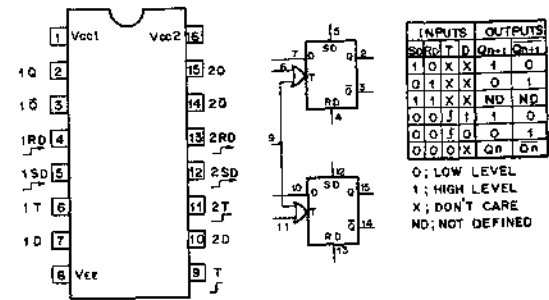
MC10125L (MOTOROLA)
HD10125 (HITACHI)
ECL ECL-TO-TTL TRANSLATOR

—TOP VIEW—



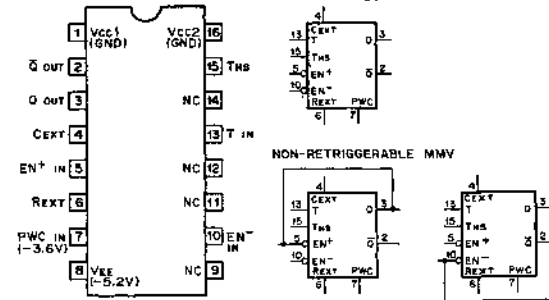
MC10131L (MOTOROLA)
HD10131 (HITACHI)
ECL D-TYPE FLIP FLOP

—TOP VIEW—



MC10198L (MOTOROLA)
RETRIGGERABLE MONOSTABLE MULTIVIBRATOR

—TOP VIEW—



T : CLOCK TRIGGER INPUT
TWS : HIGH-SPEED CLOCK TRIGGER INPUT
EN⁺ : TRIGGER POSITIVE ENABLE
EN⁻ : TRIGGER NEGATIVE ENABLE
PWC : EXTERNAL PULSE WIDTH CONTROL

OUTPUT PULSE WIDTH : PWO
 $PWO = 1.19 \cdot CEXT (REXT + 284)$
 WHERE
 PWO = SEC
 CEXT = FARADS
 REXT = OHMS
 VEE = -5.2V
 PWC = -3.6V

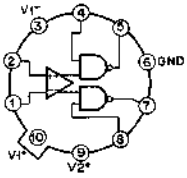
NOTE : - SELECT REXT RANGING FROM ZERO TO 16K OHMS.
 - SELECT CEXT GREATER THAN 20PF.

FUNCTION TABLE		
EN ⁺	EN ⁻	TRIG. SLOPE
0	0	↓
0	1	↑
1	0	↓
1	1	DISABLE

0; LOW LEVEL
1; HIGH LEVEL

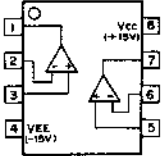
NE527H (SIGNETICS)
VOLTAGE COMPARATOR

—BOTTOM VIEW—



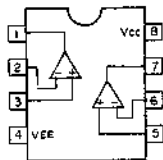
NJM2903D (JRC)
OPERATIONAL AMPLIFIER

—TOP VIEW—



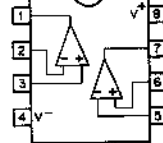
NJM4558D (JRC)
NJM4558DFA (JRC)
NJM4558DMD (JRC)
μPC4558C (NEC)
OPERATIONAL AMPLIFIER

—TOP VIEW—



NJM4559D (JRC)
OPERATIONAL AMPLIFIER

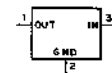
—TOP VIEW—



NJM78L?7A (JRC)
VOLTAGE REGULATOR



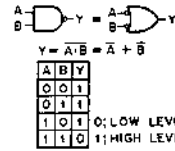
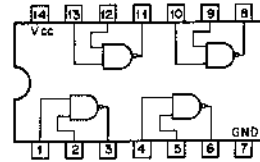
OUT GND IN
(1) (2) (3)



- 2V NJM78L02A
- 5V NJM78L05A
- 6V NJM78L06A
- 8V NJM78L08A
- 9V NJM78L09A
- 12V NJM78L12A
- 15V NJM78L15A

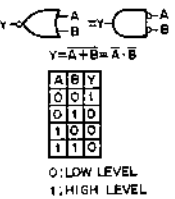
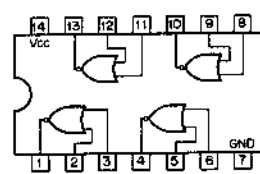
SN7400N (TI)
M53200P (MITSUBISHI)
SN74S00N (TI)
SN74LS00N (TI)
HD74LS00P (HITACHI)
TTL NAND GATE

—TOP VIEW—



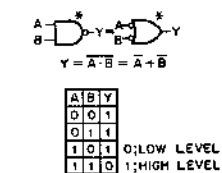
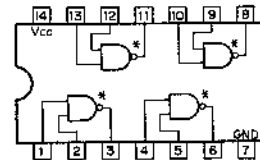
SN7402N (TI)
M53202P (MITSUBISHI)
SN74S02N (TI)
SN74LS02N (TI)
TTL 2-INPUT POSITIVE-NOR GATE

—TOP VIEW—



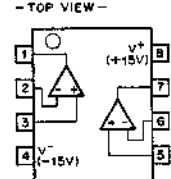
SN7403N (TI)
SN74L03N (TI)
SN74S03N (TI)
SN74LS03N (TI)
TTL 2-INPUT POSITIVE-NAND GATE WITH OPEN-COLLECTOR

—TOP VIEW—



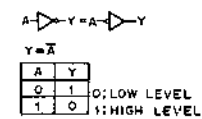
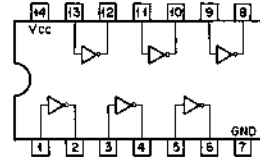
NJM4560D (JRC)
NJM4560DD (JRC)
NJM4560DN (JRC)
NJM4560DX (JRC)
OPERATIONAL AMPLIFIER

—TOP VIEW—



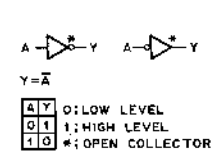
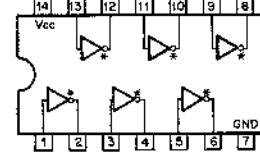
SN7404N (TI)
M53204P (MITSUBISHI)
SN74L04N (TI)
SN74S04N (TI)
SN74LS04N (TI)
HD74LS04P (HITACHI)
TTL INVERTER

—TOP VIEW—

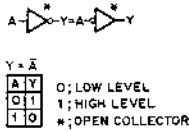
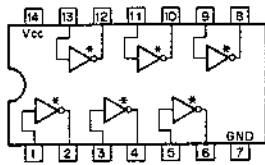


SN7405N (TI)
SN74LS05N (TI)
74LS05PC (FSC)
TTL INVERTER WITH OPEN-COLLECTOR

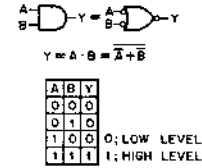
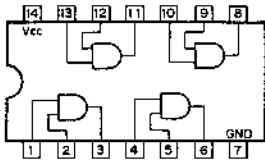
—TOP VIEW—



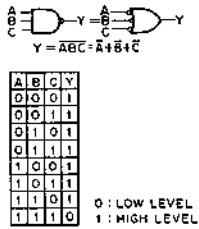
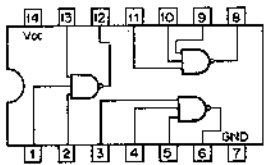
SN7406N (TI)
M53206P (MITSUBISHI)
 TTL INVERTER BUFFER/DRIVER
 WITH OPEN-COLLECTOR
 —TOP VIEW—



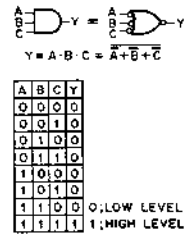
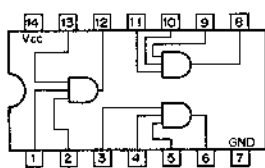
SN7408N (TI)
SN74S08N (TI)
SN74LS08N (TI)
HD74LS08P (HITACHI)
 TTL 2-INPUT POSITIVE-AND GATE
 —TOP VIEW—



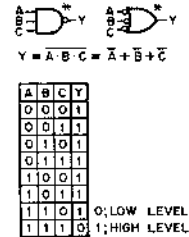
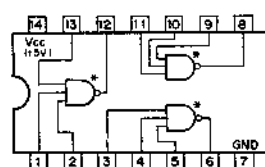
SN7410N (TI)
SN74L10N (TI)
SN74S10N (TI)
SN74LS10N (TI)
HD74LS10P (HITACHI)
 TTL 3-INPUT POSITIVE-NAND GATE
 —TOP VIEW—



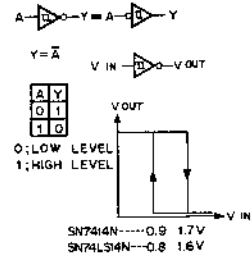
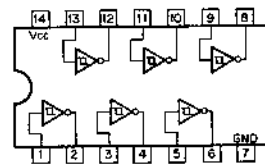
SN74H11N (TI)
SN74S11N (TI)
SN74LS11N (TI)
 TTL 3-INPUT POSITIVE-AND GATE
 —TOP VIEW—



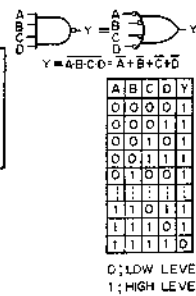
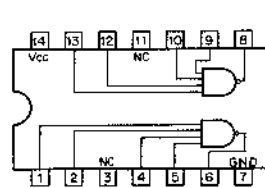
SN7412N (TI)
SN74LS12N (TI)
 TTL 3-INPUT POSITIVE-NAND GATE WITH OPEN-COLLECTOR OUTPUT
 —TOP VIEW—



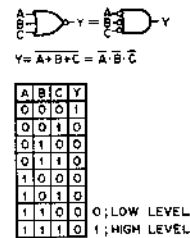
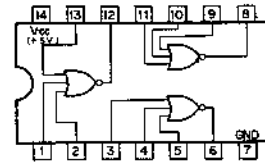
SN7414N (TI)
SN74LS14N (TI)
 TTL SCHMITT TRIGGER INVERTER
 —TOP VIEW—



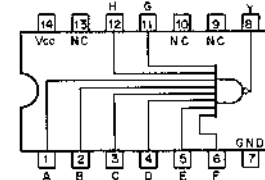
SN7420N (TI)
SN74S20N (TI)
SN74LS20N (TI)
 TTL 4-INPUT POSITIVE-NAND GATE
 —TOP VIEW—



SN7427N (TI)
SN74LS27N (TI)
 TTL 3-INPUT POSITIVE-NOR GATE
 —TOP VIEW—

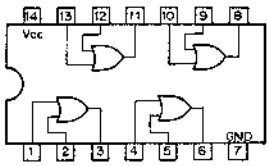


SN7430N (TI)
SN74S30N (TI)
SN74LS30N (TI)
HD74LS30P (HITACHI)
 TTL 8-INPUT NAND GATE
 —TOP VIEW—



$Y = \overline{A \cdot B \cdot C \cdot D \cdot E \cdot F \cdot G \cdot H} = \bar{A} + \bar{B} + \bar{C} + \dots + \bar{H}$

SN7432N (TI)
 SN74S32N (TI)
 SN74LS32N (TI)
 HD74LS32P (HITACHI)
 MB74LS32 (FUJITSU)
 M74LS32P (MITSUBISHI)
 TTL 2-INPUT POSITIVE-OR GATE
 -TOP VIEW-

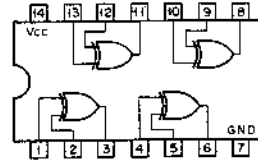


$Y = A + B = \overline{A \cdot B}$

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

0: LOW LEVEL
 1: HIGH LEVEL

SN7486N (TI)
 SN74S86N (TI)
 SN74LS86N (TI)
 HD74LS86P (HITACHI)
 TTL EXCLUSIVE OR GATE
 -TOP VIEW-

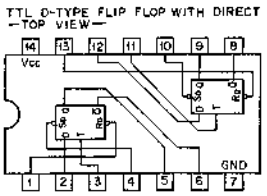


$Y = \overline{A \cdot B} + A \cdot \overline{B}$

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

0: LOW LEVEL
 1: HIGH LEVEL

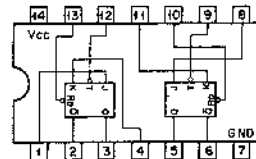
SN7474N (TI)
 M63274P (MITSUBISHI)
 SN74H74N (TI)
 SN74L74N (TI)
 SN74S74N (TI)
 SN74LS74N (TI)
 HD74LS74P (HITACHI)
 TTL D-TYPE FLIP-FLOP WITH DIRECT SET/RESET
 -TOP VIEW-



INPUTS		OUTPUTS	
SD	Rd	Q	Qn+1
0	1	X	X
1	0	X	X
0	0	X	X
1	1	0	1
1	1	1	0
1	1	0	0
1	1	1	1

0: LOW LEVEL
 1: HIGH LEVEL
 X: DON'T CARE
 !: NONSTABLE

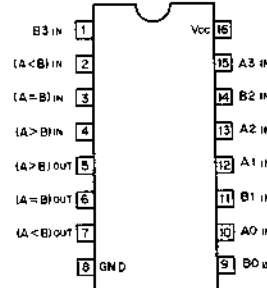
SN74LS107A (TI)
 HD74LS107P (HITACHI)
 TTL J-K FLIP-FLOP WITH DIRECT RESET
 -TOP VIEW-



INPUTS				OUT
Rd	T	J	K	Qn+1
0	X	X	X	0
1	1	0	0	Qn
1	1	0	1	0
1	1	1	0	1
1	1	1	1	Qn
1	1	X	X	Qn

0: LOW LEVEL
 1: HIGH LEVEL
 X: DON'T CARE

SN7485N (TI)
 SN74S85N (TI)
 SN74LS85N (TI)
 TTL 4-BIT MAGNITUDE COMPARATOR
 -TOP VIEW-

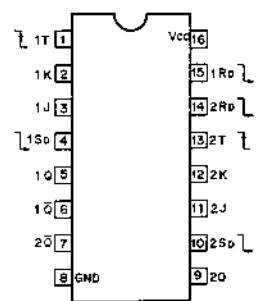


A0	A1	A2	A3	B0	B1	B2	B3
4	3	2	1	8	7	6	5

INPUTS				OUTPUTS						
DATA COMPARING				CASCADING						
A3	B3	A2	B2	A1	B1	A0	B0	A < B	A = B	A > B
A3 > B3	X	X	X	X	X	X	X	0	0	1
A3 = B3	A2 > B2	X	X	X	X	X	X	0	0	1
A3 = B3	A2 = B2	A1 > B1	X	X	X	X	X	0	0	1
A3 = B3	A2 = B2	A1 = B1	A0 > B0	X	X	X	X	0	0	1
A3 = B3	A2 = B2	A1 = B1	A0 = B0	X	X	X	X	0	0	1
A3 < B3	A2 < B2	A1 < B1	X	X	X	X	X	1	0	0
A3 < B3	A2 < B2	X	X	X	X	X	X	1	0	0
A3 < B3	X	X	X	X	X	X	X	1	0	0

0: LOW LEVEL
 1: HIGH LEVEL
 X: DON'T CARE

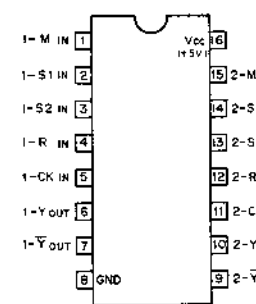
SN74S112N (TI)
 SN74LS112AN (TI)
 TTL J-K FLIP-FLOP WITH DIRECT SET/RESET
 -TOP VIEW-



INPUTS				OUTPUTS	
SD	Rd	T	J	K	Qn+1
0	1	X	X	X	0
1	0	X	X	X	0
0	0	X	X	X	!*
1	1	1	0	0	Qn
1	1	1	0	1	0
1	1	1	1	0	Qn
1	1	1	1	1	Qn

0: LOW LEVEL
 1: HIGH LEVEL
 X: DON'T CARE
 !: NONSTABLE

SN74120N (TI)
 TTL PULSE SYNCHRONIZER/DRIVER
 -TOP VIEW-



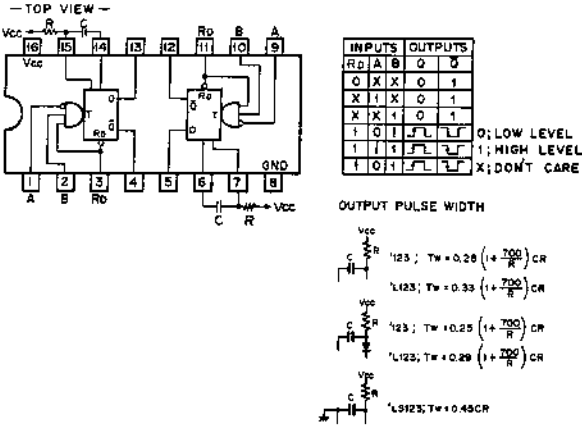
INPUT	OUTPUT MODE
0	TRAIN OF PULSES
1	SINGLE PULSE

INPUTS		FUNCTION	
R	S1 S2	X	0 X
X	0 X	X	PASS OUTPUT PULSES
X	X 0	X	PASS OUTPUT PULSES
0	1 1	X	INHIBIT OUTPUT PULSES
1	1 1	X	START OUTPUT PULSES
1	1 1	X	START OUTPUT PULSES
1	1 1	X	STOP OUTPUT PULSES
1	1 1	X	CONTINUE

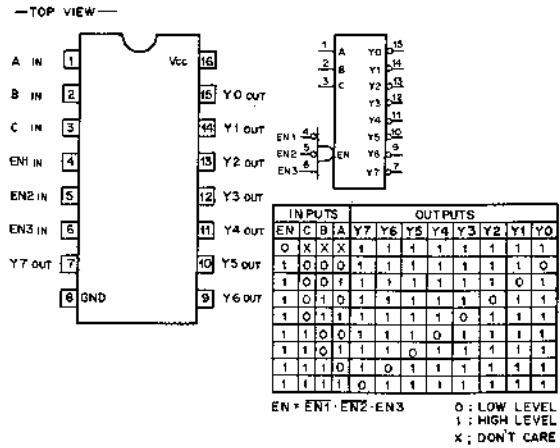
S1, S2: START COMMAND INPUTS
 R: STOP COMMAND INPUT
 M: MODE CONTROL INPUT
 Y, Y: SYNCHRONIZED PULSE OUTPUT

0: LOW LEVEL
 1: HIGH LEVEL
 X: DON'T CARE

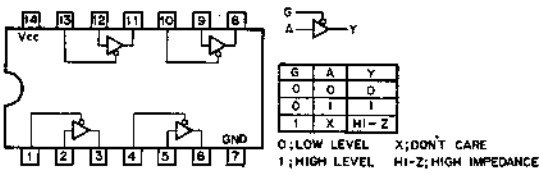
SN74123N (TI)
 SN74L123N (TI)
 SN74LS123N (TI)
 SN74LS123NS(TI)
 HD74LS123P (HITACHI)
 TTL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR WITH DIRECT RESET



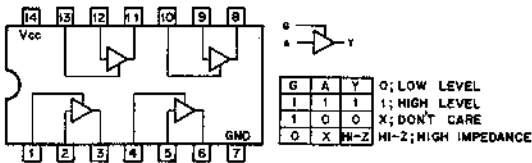
SN74S138N (TI)
 SN74LS138N (TI)
 HD74LS138P (HITACHI)
 MB74LS138 (FUJITSU)
 M74LS138P (MITSUBISHI)
 TTL 3-TO-8-LINE DECODER/DEMULPLEXER



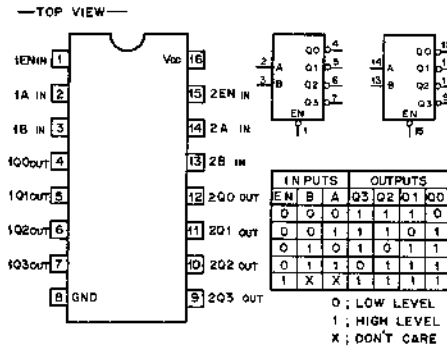
SN74125N
 SN74LS125AN
 TTL BUS BUFFER GATES WITH 3-STATE OUTPUT



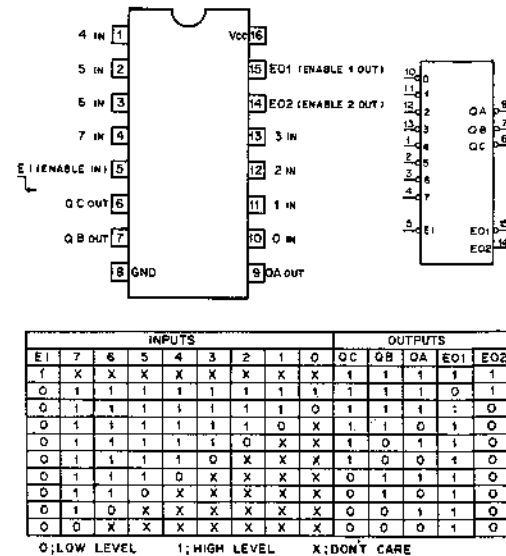
SN74LS126AN (TI)
 TTL BUS BUFFER GATE WITH 3-STATE OUTPUT



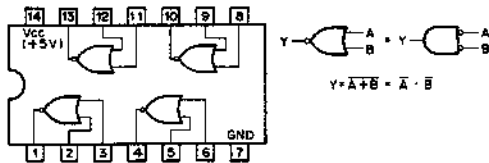
SN74S139N (TI)
 SN74LS139N (TI)
 TTL 2-TO-4-LINE DECODER/DEMULPLEXER



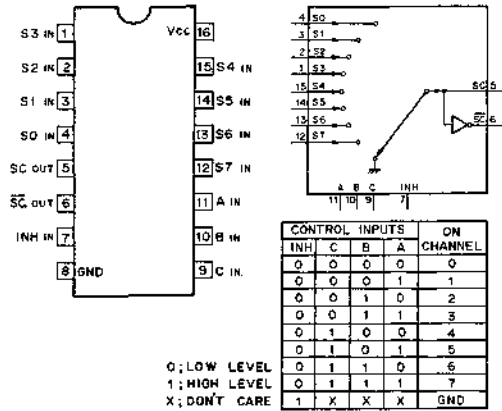
SN74148N (TI)
 SN74LS148N (TI)
 TTL 8-TO-3-LINE PRIORITY ENCODER



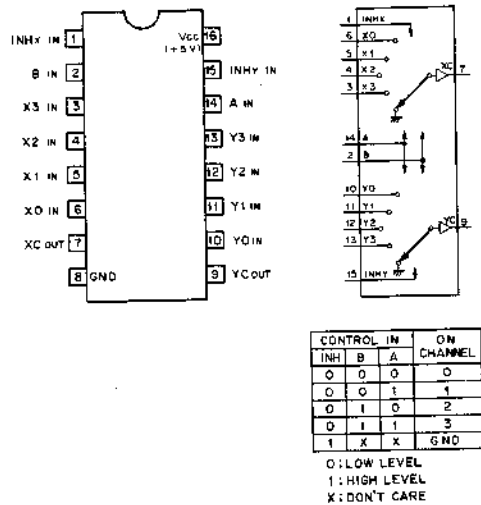
SN74128N (TI)
 TTL 50-OHM LINE DRIVER



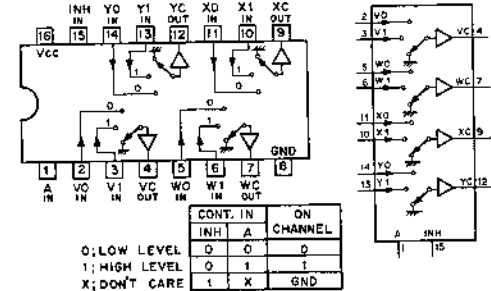
SN74151AN (TI)
 SN74LS151N (TI)
 SN74LS151N (TI)
 TTL 8-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
 -TOP VIEW-



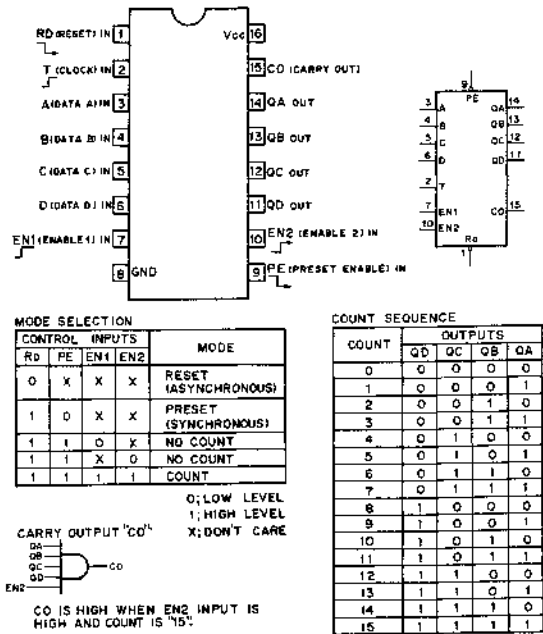
SN74153N (TI)
 SN74LS153N (TI)
 SN74LS153N (TI)
 SN74S153N (TI)
 HD74LS153P (HITACHI)
 M74LS153P (MITSUBISHI)
 MB74LS153 (FUJITSU)
 TTL 4-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
 -TOP VIEW-



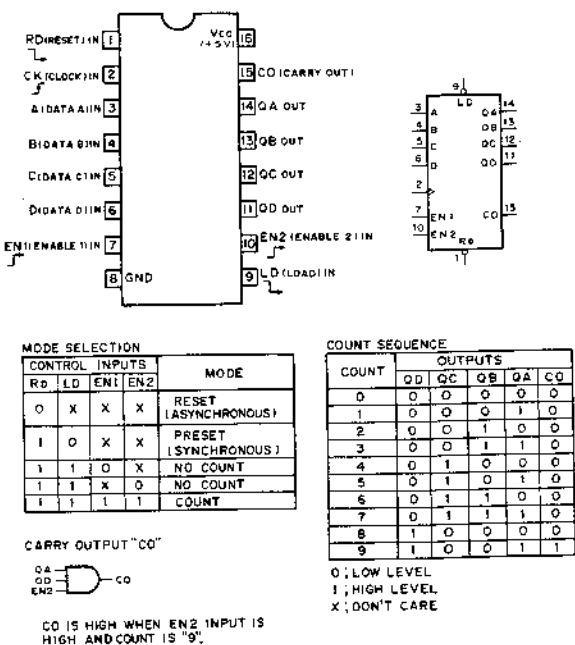
SN74157N (TI)
 SN74LS157N (TI)
 SN74S157N (TI)
 SN74LS157N (TI)
 HD74LS157P (HITACHI)
 MB74LS157 (FUJITSU)
 M74LS157P (MITSUBISHI)
 TTL 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
 -TOP VIEW-



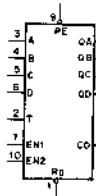
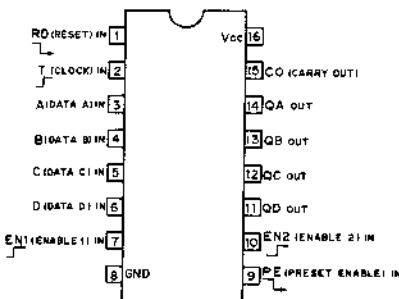
SN74161N (TI)
 SN74LS161AN (TI)
 HD74LS161P (HITACHI)
 TTL PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER
 -TOP VIEW-



SN74162N (TI)
 SN74LS162AN (TI)
 SN74S162N (TI)
 TTL PRESETTABLE SYNCHRONOUS 4-BIT DECADE COUNTER
 -TOP VIEW-

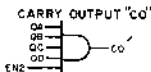


SN74163N (TI)
 SN74S163N (TI)
 SN74LS163AN (TI)
 HD74LS163P (HITACHI)
 TTL PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER
 - TOP VIEW -



MODE SELECTION				MODE
CONTROL	INPUTS			
Rd	PE	EN1	EN2	
0	X	X	X	RESET (SYNCHRONOUS)
1	0	X	X	PRESET (SYNCHRONOUS)
1	1	0	X	NO COUNT
1	1	X	0	NO COUNT
1	1	1	1	COUNT

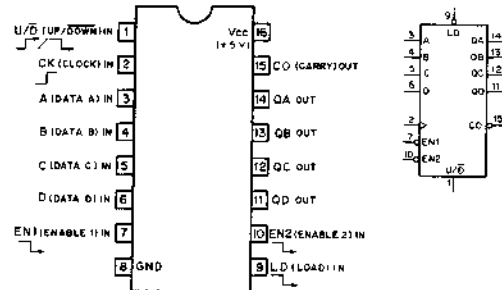
0: LOW LEVEL
 1: HIGH LEVEL
 X: DON'T CARE



CO IS HIGH WHEN EN2 INPUT IS HIGH AND COUNT IS "15".

COUNT SEQUENCE				
COUNT	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

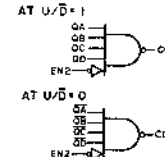
SN74S169N (TI)
 TTL PRESETTABLE SYNCHRONOUS 4-BIT BINARY UP/DOWN COUNTER
 - TOP VIEW -



MODE SELECTION				
INPUTS				MODE
LD	EN1	EN2	U/D	
0	X	X	X	PRESET
X	1	X	X	NO COUNT
X	X	1	X	NO COUNT
1	0	0	1	UP COUNT
1	0	0	0	DOWN COUNT

0: LOW LEVEL
 1: HIGH LEVEL
 X: DON'T CARE

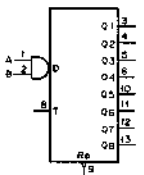
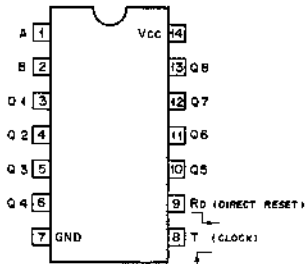
CARRY OUTPUTS "CO"



COUNT SEQUENCE				
COUNT	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

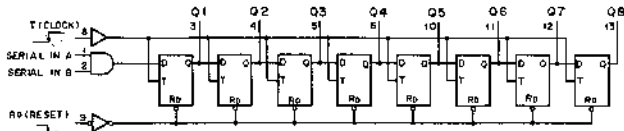
UP COUNT
 DOWN COUNT

SN74164N (TI)
 SN74LS164N (TI)
 SN74S164N (TI)
 HD74LS164P (HITACHI)
 TTL 8-BIT PARALLEL-OUT SERIAL SHIFT REGISTER
 - TOP VIEW -

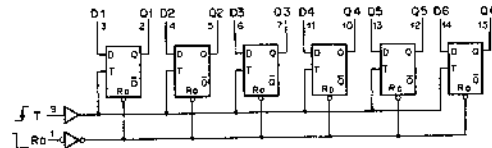
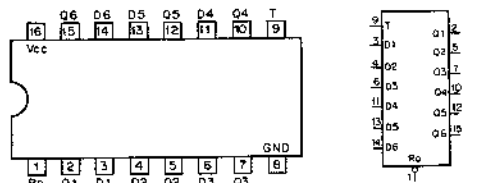


INPUTS		OUTPUTS									
Rd	T	A	B	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
0	X	X	X	0	0	0	0	0	0	0	0
1	0	X	X	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
1	1	1	1	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
1	1	0	X	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
1	1	X	0	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8

0: LOW LEVEL
 1: HIGH LEVEL
 X: DON'T CARE



SN74174N (TI)
 SN74S174N (TI)
 SN74LS174N (TI)
 HD74LS174P (HITACHI)
 M874LS174 (FUJITSU)
 M74LS174P (MITSUBISHI)
 TTL D-TYPE FLIP-FLOP WITH DIRECT RESET
 - TOP VIEW -

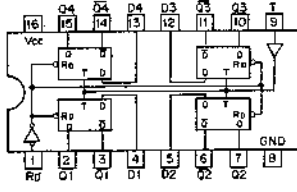


EACH FLIP-FLOP

INPUTS				OUT
Rd	T	D	Q	
0	X	X	0	
1	1	0	0	
1	1	1	1	
1	0	X	Qd	

0: LOW LEVEL
 1: HIGH LEVEL
 X: DON'T CARE

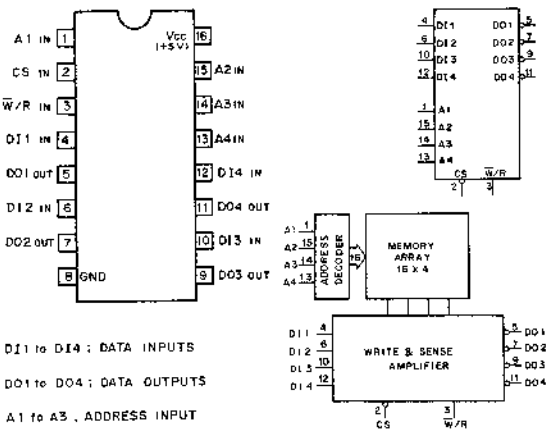
SN74175N (TI)
 SN74S175N (TI)
 SN74LS175N (TI)
 HD74LS175P (HITACHI)
 TTL D-TYPE FLIP-FLOP WITH CLEAR
 -TOP VIEW-



Rd	T	D	Q	Q	Q
0	X	X	0	1	
1	1	1	1	0	
1	1	0	0	1	
1	0	X	Q0	Q0	

0; LOW LEVEL
 1; HIGH LEVEL
 X; DON'T CARE

SN74S189AN (TI)
 SN74S189N (TI)
 TTL 84-BIT RAM WITH 3-STATE OUTPUT
 -TOP VIEW-

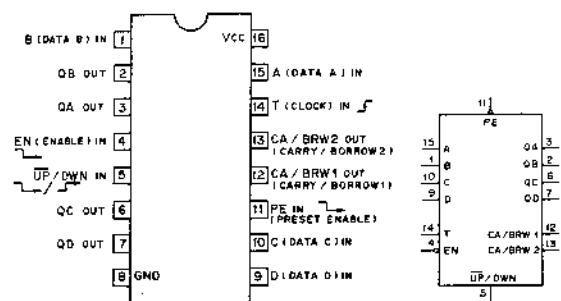


D11 to D14 : DATA INPUTS
 D01 to D04 : DATA OUTPUTS
 A1 to A3 : ADDRESS INPUT
 CS : CHIP SELECT INPUT
 W/R : WRITE/READ ENABLE IN

CS	W/R	FUNCTION	OUTPUTS
0	0	WRITE	HIGH IMPEDANCE
0	1	READ	COMPLEMENTED DATA ENTERED
1	X	INHIBIT	HIGH IMPEDANCE

0; LOW LEVEL
 1; HIGH LEVEL
 X; DON'T CARE

SN74191M (TI)
 SN74LS191M (TI)
 TTL PRESETTABLE SYNCHRONOUS 4-BIT BINARY UP/DOWN COUNTER
 -TOP VIEW-

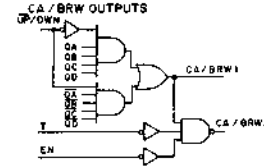


CONTROL INPUTS				MODE
PE	EN	UP/DWN		
0	X	X		PRESET (ASYNCHRONOUS)
1	1	X		NO COUNT
1	0	0		UP COUNT
1	0	1		DOWN COUNT

0; LOW LEVEL
 1; HIGH LEVEL
 X; DON'T CARE.

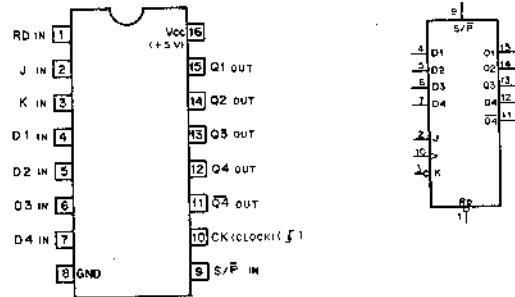
COUNT	OUTPUTS			
	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

UP COUNT
 DOWN COUNT



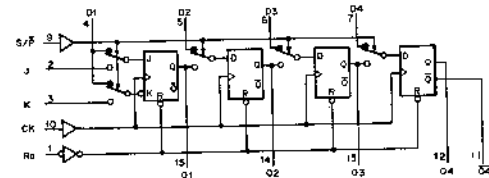
CA/BRW1 OUTPUT IS HIGH WHEN COUNT IS "15" AT UP-COUNT OR WHEN COUNT IS "0" AT DOWN COUNT.
 CA/BRW2 OUTPUT IS LOW WHEN BOTH THE CLOCK AND EN INPUTS ARE LOW AND CA/BRW1 OUTPUT IS HIGH.

SN74LS195AN (TI)
 SN74S195N (TI)
 TTL 4-BIT PARALLEL-ACCESS SHIFT REGISTER
 -TOP VIEW-

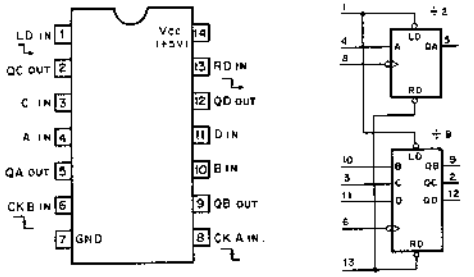


INPUTS				OUTPUTS							
RD S/P	CK	J	K	D1	D2	D3	D4	Q1	Q2	Q3	Q4
0	X	X	X	X	X	X	X	0	0	0	0
1	0	1	X	X	d1	d2	d3	d4	d1	d2	d3
1	1	0	X	X	X	X	X	Q1n	Q2n	Q3n	Q4n
1	1	1	0	1	X	X	X	Q1n	Q1n	Q2n	Q3n
1	1	1	0	0	X	X	X	0	Q1n	Q2n	Q3n
1	1	1	1	1	X	X	X	1	Q1n	Q2n	Q3n
1	1	1	1	0	X	X	X	Q1n	Q1n	Q2n	Q3n

0; LOW LEVEL
 1; HIGH LEVEL
 X; DON'T CARE



SN74LS197N (TI)
TTL PRESETTABLE DIVIDE-BY-2 AND DIVIDE-BY-8 (4-BIT BINARY) COUNTER
 — TOP VIEW —



COUNT SEQUENCE

÷ 2 SECTION

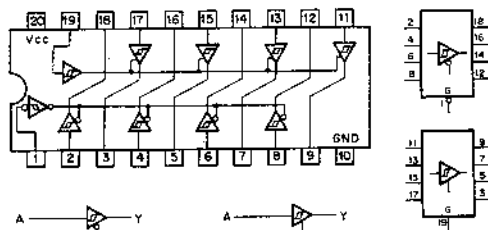
COUNT	RD	LD	QA
0	1	1	0
1	1	1	1
X	1	0	SET TO A
0	0	X	0

0; LOW LEVEL
 1; HIGH LEVEL
 X; DON'T CARE

÷ 8 SECTION

COUNT	RD	LD	QD	QC	QB
0	1	1	0	0	0
1	1	1	0	0	1
2	1	1	0	1	0
3	1	1	0	1	1
4	1	1	1	0	0
5	1	1	1	0	1
6	1	1	1	1	0
7	1	1	1	1	1
X	1	0	D	C	B
0	0	X	0	0	0

SN74LS241N (TI)
SN74S241N (TI)
HD74LS241P (HITACHI)
TTL 3-STATE SCHMITT TRIGGER BUFFER/LINE DRIVER
 — TOP VIEW —



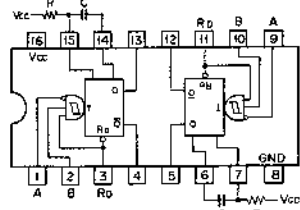
G	A	Y
0	0	0
0	1	1
1	0	HI-Z
1	1	HI-Z

HI-Z; HIGH IMPEDANCE

G	A	Y
0	0	HI-Z
0	1	HI-Z
1	0	0
1	1	1

HI-Z; HIGH IMPEDANCE

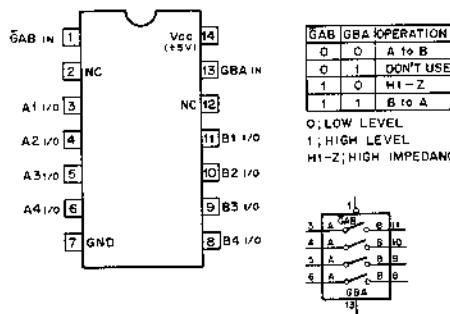
SN74221N (TI)
SN74LS221N (TI)
HD74LS221P (HITACHI)
TTL MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT
 — TOP VIEW —



INPUTS		OUTPUTS	
RD	A	Q	Q'
0	X	X	0
X	1	X	0
X	X	0	1
1	0	1	0
1	1	1	0
1	0	1	1
1	1	0	1
1	1	1	0

0; LOW LEVEL
 1; HIGH LEVEL
 X; DON'T CARE
 OUTPUT PULSE WIDTH = 0.7CR

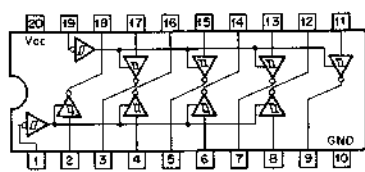
SN74LS243N (TI)
TTL BUS TRANSCEIVERS WITH 3-STATE OUTPUT
 — TOP VIEW —



GAB	GBA	OPERATION
0	0	A to B
0	1	DON'T USE
1	0	HI-Z
1	1	B to A

0; LOW LEVEL
 1; HIGH LEVEL
 HI-Z; HIGH IMPEDANCE

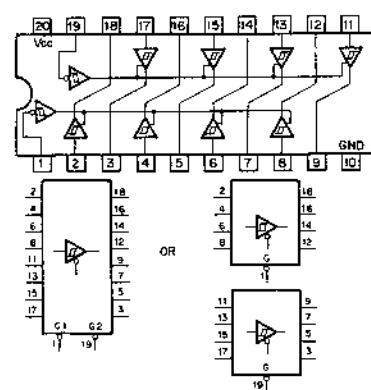
SN74S240N (TI)
SN74LS240N (TI)
HD74LS240P (HITACHI)
TTL 3-STATE SCHMITT TRIGGER INVERTER/LINE DRIVER
 — TOP VIEW —



G	A	Y
0	0	1
0	1	0
1	X	HI-Z

0; LOW LEVEL
 1; HIGH LEVEL
 X; DON'T CARE
 HI-Z; HIGH IMPEDANCE

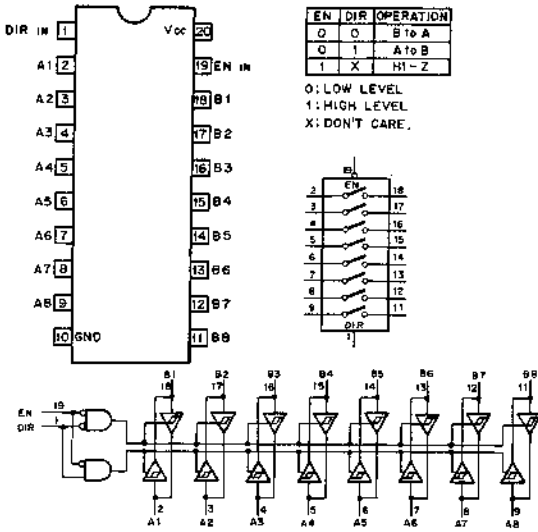
SN74LS244N (TI)
HD74LS244P (HITACHI)
M74LS244P (MITSUBISHI)
TTL 3-STATE SCHMITT TRIGGER BUFFER/DRIVER
 — TOP VIEW —



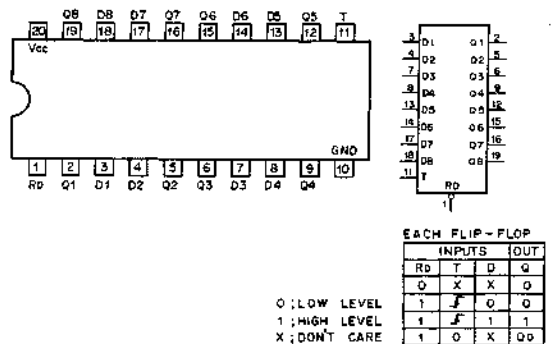
G	A	Y
0	0	0
0	1	1
1	X	HI-Z

0; LOW LEVEL
 1; HIGH LEVEL
 X; DON'T CARE
 HI-Z; HIGH IMPEDANCE

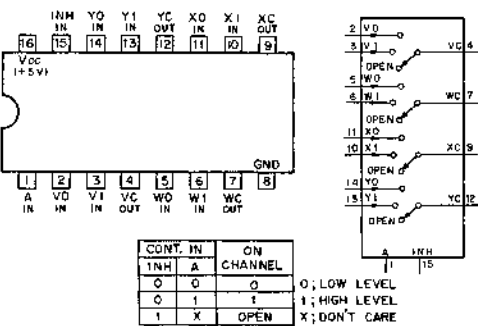
SN74LS245N (T1)
TTL BILATERAL SCHMITT TRIGGER BUS TRANSCEIVERS WITH 3-STATE OUTPUT
—TOP VIEW—



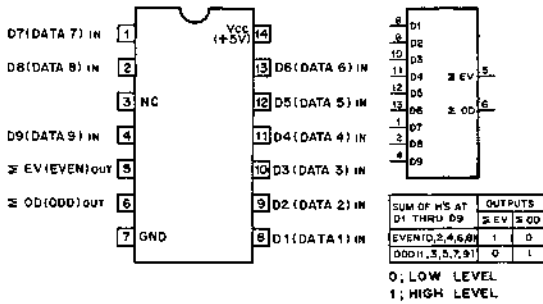
SN74273N (T1)
SN74LS273N (T1)
M74LS273P (MITSUBISHI)
TTL D-TYPE FLIP-FLOP WITH DIRECT RESET
—TOP VIEW—



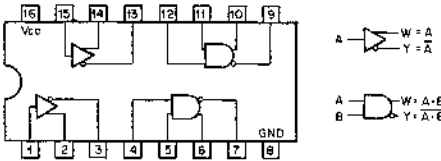
SN74LS257AN (T1)
TTL 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
—TOP VIEW—



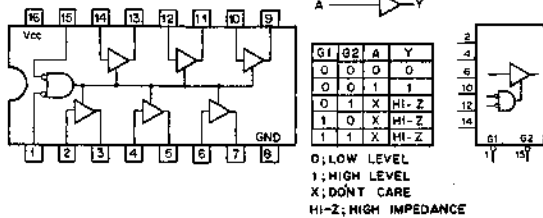
SN74LS280N (T1)
TTL 9-BIT ODD/EVEN PARITY GENERATOR/CHECKER
—TOP VIEW—



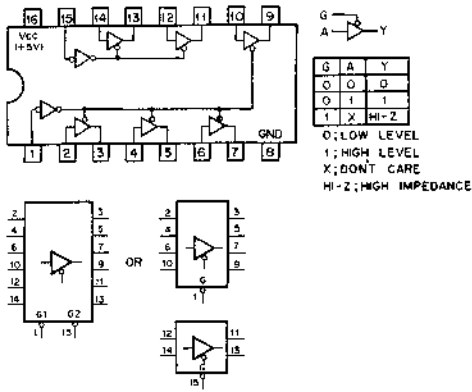
SN74265N (T1)
TTL COMPLEMENTARY-OUTPUT ELEMENT
—TOP VIEW—



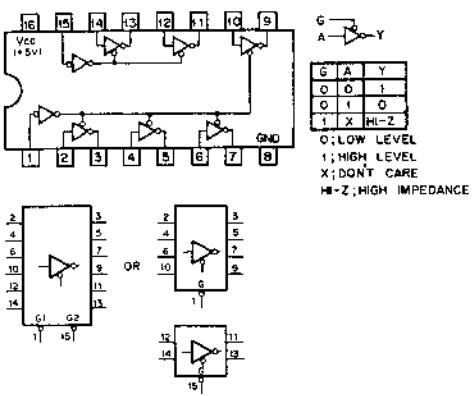
SN74LS365AN (T1)
SN74365AN (T1)
TTL 3-STATE BUS DRIVER
—TOP VIEW—



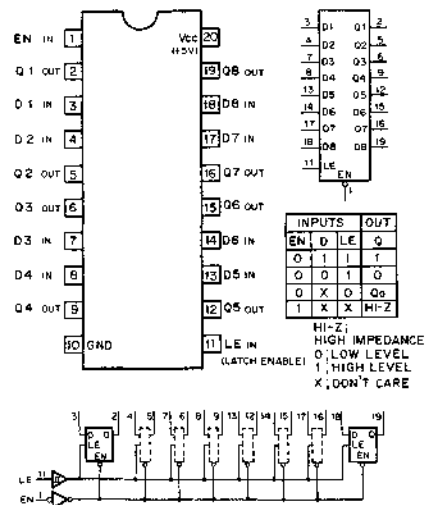
SN74367AN (TI)
SN74LS367AN (TI)
TTL BUS DRIVER WITH 3-STATE OUTPUTS
— TOP VIEW —



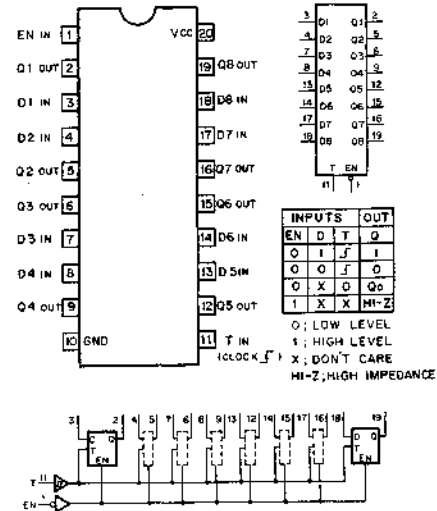
SN74368AN (TI)
SN74LS368AN (TI)
TTL BUS INVERTER WITH 3-STATE OUTPUTS
— TOP VIEW —



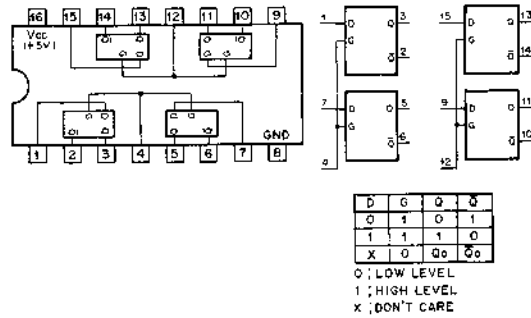
SN74LS373N (TI)
SN74S373N (TI)
TTL 3-STATE OUTPUTS OCTAL LATCHES
— TOP VIEW —



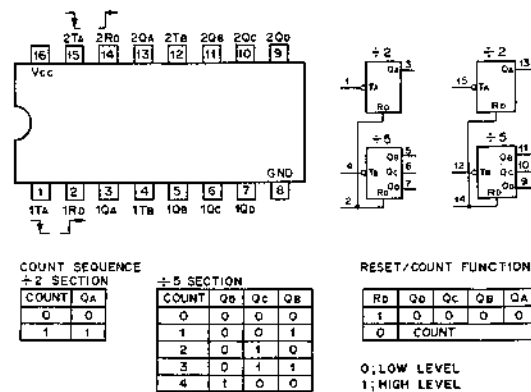
SN74LS374N (TI)
SN74S374N (TI)
TTL 3-STATE OUTPUTS OCTAL D-TYPE FLIP-FLOP
— TOP VIEW —



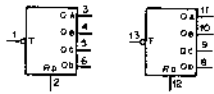
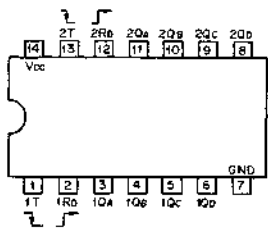
SN74LS375N (TI)
TTL BISTABLE LATCH
— TOP VIEW —



SN74390N (TI)
SN74LS390N (TI)
TTL DIVIDE-BY-2 AND DIVIDE-BY-5 COUNTER
— TOP VIEW —



SN74393N (TI)
SN74LS393N (TI)
 TTL 4-BIT BINARY COUNTER
 — TOP VIEW —



COUNT SEQUENCE

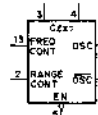
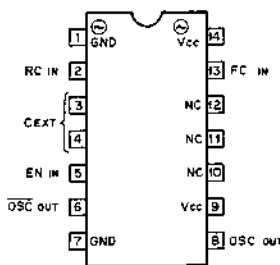
COUNT	Qd	Qc	Qb	Qa
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

RESET/COUNT FUNCTION

Rd	Qd	Qc	Qb	Qa
1	0	0	0	0
0	COUNT			

0: LOW LEVEL
 1: HIGH LEVEL

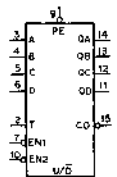
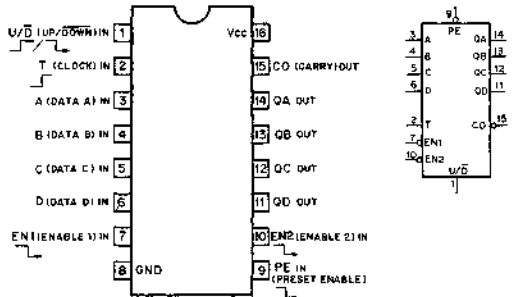
SN74LS624N (TI)
 TTL VOLTAGE CONTROLLED OSCILLATOR
 — TOP VIEW —



EN	OSC	OSC
0	ENABLE	ENABLE
1	LOW	HIGH

0: LOW LEVEL
 1: HIGH LEVEL

SN74LS669N (TI)
 TTL PRESETTABLE SYNCHRONOUS 4-BIT BINARY UP/DOWN COUNTER
 — TOP VIEW —

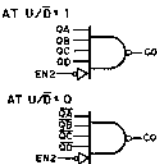


MODE SELECTION

PE	EN1	EN2	U/D	MODE
0	X	X	X	PRESET
X	1	X	X	NO COUNT
X	X	1	X	NO COUNT
1	0	0	1	UP COUNT
1	0	0	0	DOWN COUNT

0: LOW LEVEL
 1: HIGH LEVEL
 X: DON'T CARE

CARRY OUTPUTS "CO"

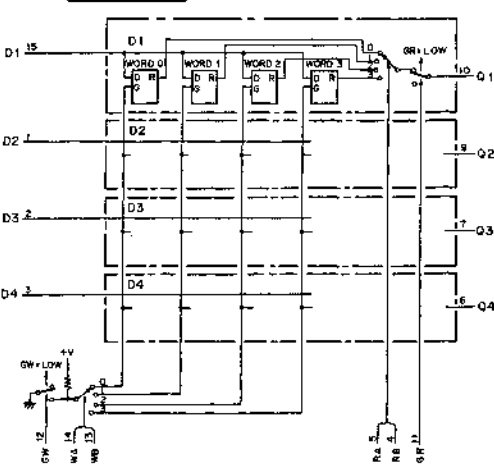
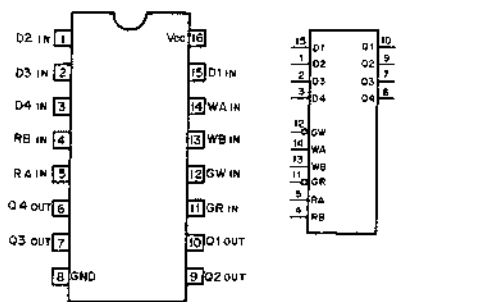


COUNT SEQUENCE

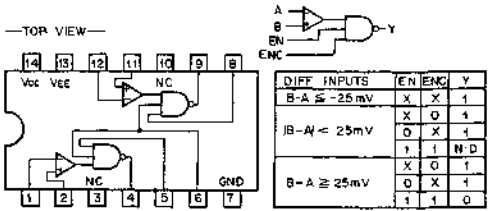
COUNT	Qd	Qc	Qb	Qa
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

UP COUNT
 DOWN COUNT

SN74LS670N (TI)
 TTL 4-BY-4 REGISTER FILES WITH 3-STATE OUTPUT
 — TOP VIEW —



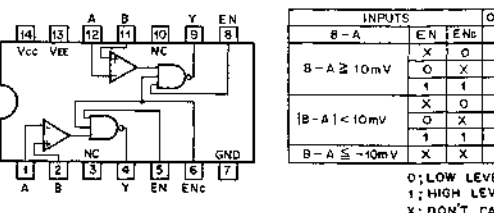
SN75107AN (TI)
SN75107BN (TI)
HD75107A (HITACHI)
HD75107AP (HITACHI)
 LINE RECEIVER
 — TOP VIEW —



DIFF. INPUTS	EN	ENC	Y
B-A ≥ 25mV	X	X	1
B-A < 25mV	X	O	1
	O	X	1
	1	1	N/D
B-A ≥ 25mV	X	O	1
	O	X	1
	1	1	0

0: LOW LEVEL
 1: HIGH LEVEL
 X: DON'T CARE
 ND: NOT DEFINED

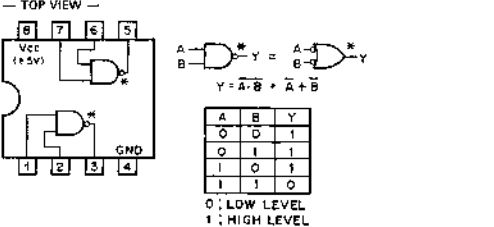
SN75207BN (TI)
 BIPOLAR LINE RECEIVER (TTL COMPATIBLE)
 — TOP VIEW —



INPUTS	EN	ENC	Y
B-A	X	X	1
B-A ≥ 10mV	O	X	1
	1	1	0
B-A < 10mV	X	O	1
	O	X	1
B-A ≤ -10mV	X	X	1

0: LOW LEVEL
 1: HIGH LEVEL
 X: DON'T CARE

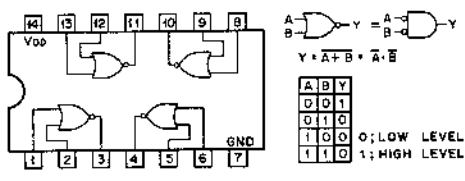
SN75452BP (TI)
HD75452P (HITACHI)
 TTL PERIPHERAL POSITIVE-NAND DRIVER
 WITH OPEN-COLLECTOR
 — TOP VIEW —



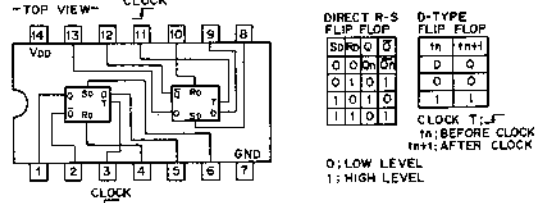
A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

0: LOW LEVEL
 1: HIGH LEVEL

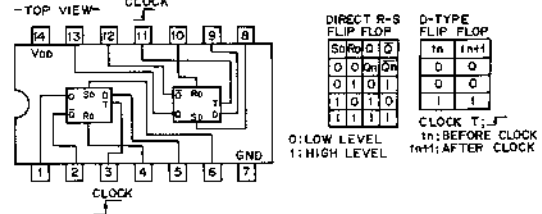
TC4001BP (TOSHIBA)
 TC4001UBP (TOSHIBA)
 μPD4001BC (NEC)
 M884001B (FUJITSU)
 MSM4001 (OKI)
 HD14001BP (HITACHI)
 MC14001BCP (MOTOROLA)
 MC14001UBCP (MOTOROLA)
 C-MOS 2-INPUT NOR GATE
 -TOP VIEW-



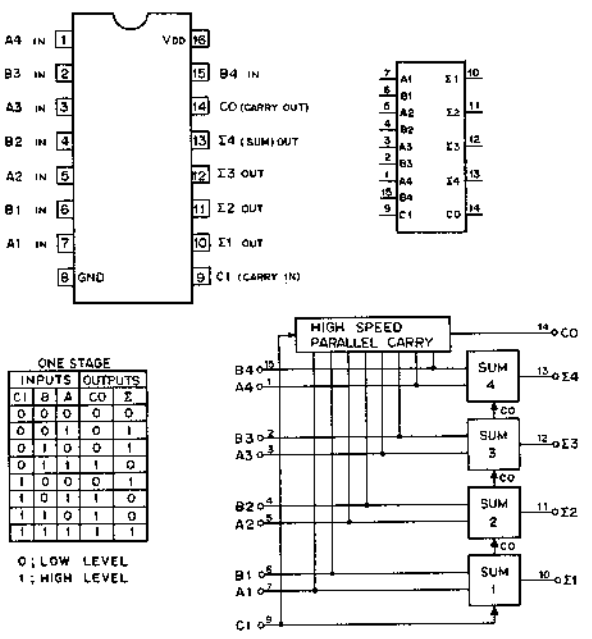
TC4013BP (TOSHIBA)
 C-MOS D-TYPE FLIP FLOP WITH DIRECT SET/RESET
 -TOP VIEW-



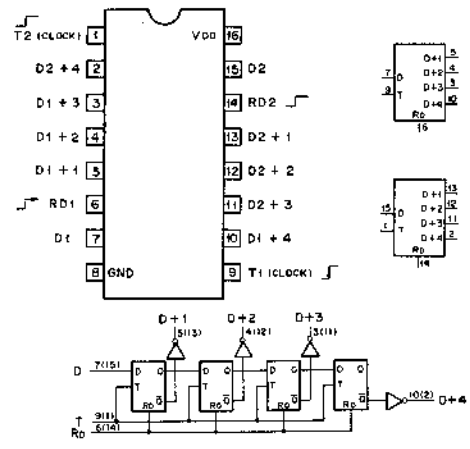
M884013B (FUJITSU)
 M884013M (FUJITSU)
 μPD4013BC (NEC)
 μPD4013C (NEC)
 HD14013BP (HITACHI)
 MC14013BCP (MOTOROLA)
 C-MOS D-TYPE FLIP FLOP WITH DIRECT SET/RESET
 -TOP VIEW-



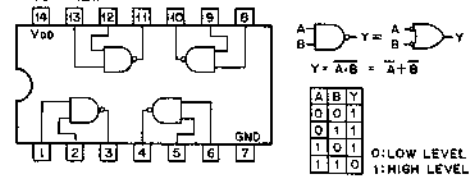
TC4008BP (TOSHIBA)
 MC14008BCP (MOTOROLA)
 C-MOS 4-BIT FULL ADDER
 -TOP VIEW-



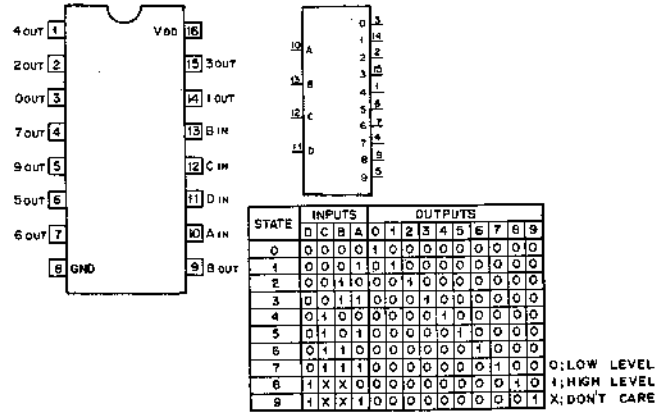
TC4015BP (TOSHIBA)
 μPD4015C (NEC)
 μPD4015BC (NEC)
 MC14015BCP (MOTOROLA)
 C-MOS DUAL 4-STAGE STATIC SHIFT REGISTER WITH DIRECT RESET
 -TOP VIEW-



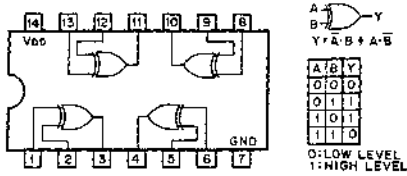
TC4011BP (TOSHIBA)
 TC4011UBP (TOSHIBA)
 μPD4011BC (NEC)
 MSM4011RS (OKI)
 M884011B (FUJITSU)
 HD14011BP (HITACHI)
 MC14011BCP (MOTOROLA)
 MC14011UBCP (MOTOROLA)
 C-MOS 2-INPUT NAND GATE
 -TOP VIEW-



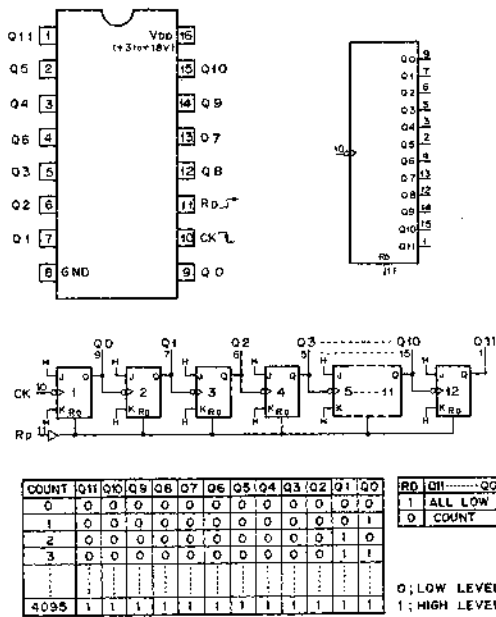
TC4028BP (TOSHIBA)
 μPD4028C (NEC)
 C-MOS BCD TO DECIMAL DECODER
 -TOP VIEW-



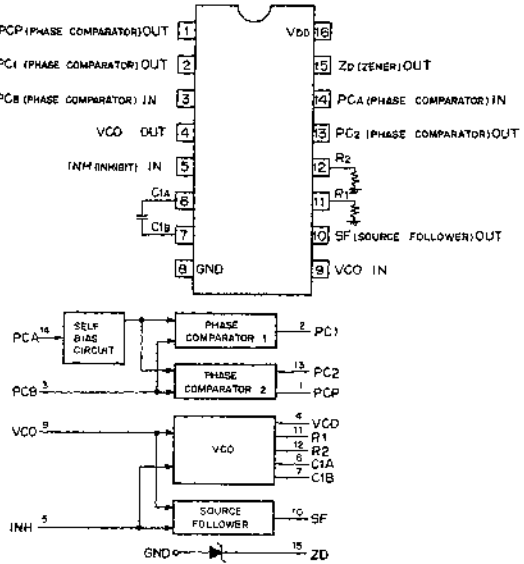
TC4030BP (TOSHIBA)
 μPD4030BC (NEC)
 μPD4030C (NEC)
 MC14507CP (MOTOROLA)
 C-MOS EXCLUSIVE OR GATE
 - TOP VIEW -



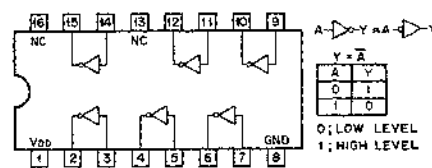
TC4040BP (TOSHIBA)
 HD14040BP (HITACHI)
 MB84040B (FUJITSU)
 μPD4040C (NEC)
 C-MOS 12-STAGE RIPPLE CARRY BINARY COUNTER/DRIVER
 - TOP VIEW -



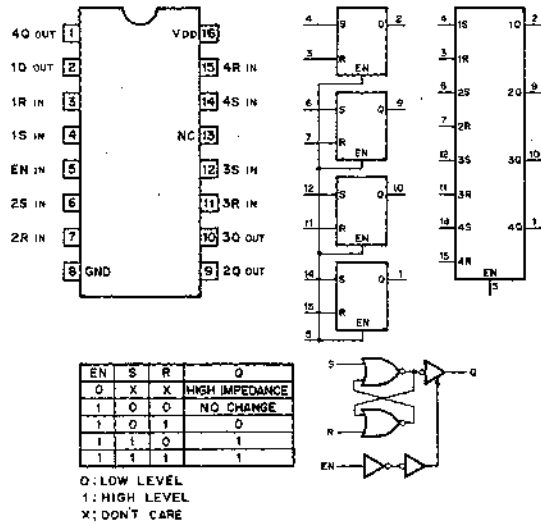
TC4046BP (TOSHIBA)
 HD14046BP (HITACHI)
 MC14046BCP (MOTOROLA)
 C-MOS PHASE LOCKED LOOP
 - TOP VIEW -



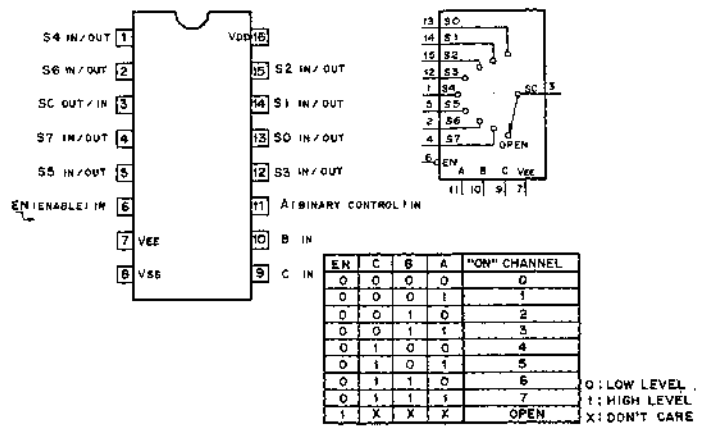
TC4049BP (TOSHIBA)
 μPD4049C (NEC)
 MB84049B (FUJITSU)
 MB84049UB (FUJITSU)
 MC14049BCP (MOTOROLA)
 C-MOS INVERTING TYPE BUFFER/CONVERTER
 - TOP VIEW -



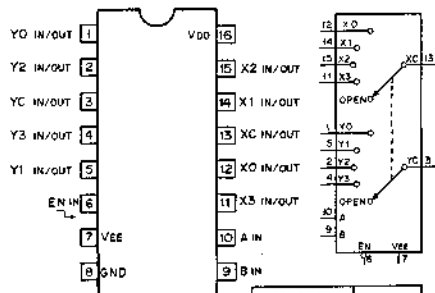
TC4043BP (TOSHIBA)
 MC14043BCP (MOTOROLA)
 C-MOS 3-STATE OUTPUT NOR R-S LATCH
 - TOP VIEW -



TC4051BP (TOSHIBA)
 μPD4051BC (NEC)
 HD14051BP (HITACHI)
 MC14051BCP (MOTOROLA)
 C-MOS 8-CHANNEL MULTIPLEXER/DEMULTEPLEXER
 - TOP VIEW -



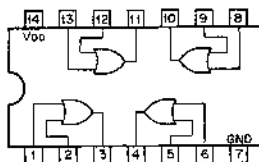
TC4052BP (TOSHIBA)
 MB84052B (FUJITSU)
 HD14052BP (HITACHI)
 MC14052BCP (MOTOROLA)
 C-MOS 4-CHANNEL MULTIPLEXER / DEMULTIPLEXER
 - TOP VIEW -



CONTROL INPUTS			"ON" CHANNEL
EN	B	A	
0	0	0	0
0	0	1	1
0	1	0	2
0	1	1	3
1	X	X	OPEN

0; LOW LEVEL
 1; HIGH LEVEL
 X; DON'T CARE.

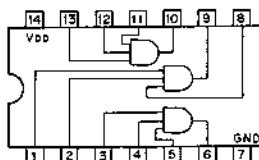
TC4071BP (TOSHIBA)
 μPD4071BC (NEC)
 MC14071BCP (MOTOROLA)
 C-MOS 2-INPUT OR GATE
 - TOP VIEW -



$$Y = A + B = \overline{\overline{A} \cdot \overline{B}}$$

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

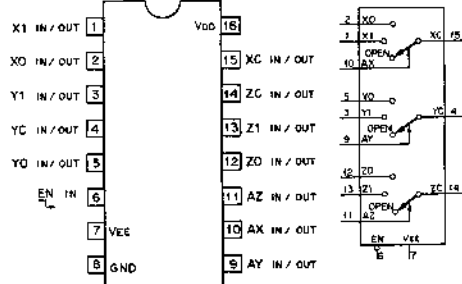
TC4073BP (TOSHIBA)
 μPD4073BC (NEC)
 MC14073BCP (MOTOROLA)
 C-MOS 3-INPUT POSITIVE AND GATE
 - TOP VIEW -



$$Y = A \cdot B \cdot C = \overline{\overline{A} + \overline{B} + \overline{C}}$$

A	B	C	Y
X	X	0	0
X	0	X	0
0	X	X	0
1	1	1	1

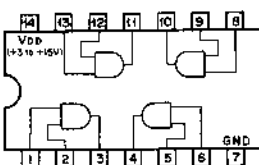
TC4053BP (TOSHIBA)
 MSM4053 (OKI)
 MB84053B (FUJITSU)
 HD14053BP (HITACHI)
 μPD4053BC (NEC)
 MC14053BCP (MOTOROLA)
 C-MOS 2-CHANNEL MULTIPLEXER / DEMULTIPLEXER
 - TOP VIEW -



CONT. INPUTS		ON CHANNEL
EN	A (Z, Z')	
0	0	0
0	1	1
1	X	OPEN

0; LOW LEVEL
 1; HIGH LEVEL
 X; DON'T CARE.

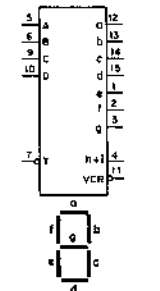
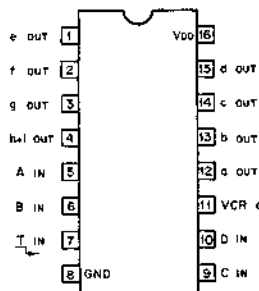
TC4081BP (TOSHIBA)
 MB84081B (FUJITSU)
 MC14081BCP (MOTOROLA)
 μPD4081BC (NEC)
 C-MOS 2-INPUT AND GATE
 - TOP VIEW -



$$Y = A \cdot B = \overline{\overline{A} + \overline{B}}$$

A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

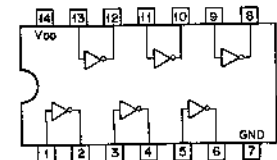
MC14495P (MOTOROLA)
 C-MOS BCD-TO-SEVEN-SEGMENT 4-BIT LATCH/DECODER DRIVER
 - TOP VIEW -



INPUTS				OUTPUTS								DISPLAY		
T	0	C	B	A	a	b	c	d	e	f	g	h	VCR	
0	0	0	0	0	1	1	1	1	1	0	0	Z	Z	0
0	0	0	0	1	0	1	1	0	0	0	0	Z	Z	1
0	0	0	1	0	1	1	0	1	1	0	1	0	Z	2
0	0	0	1	1	1	1	1	1	0	1	0	Z	Z	3
0	0	1	0	0	0	1	0	0	1	1	0	Z	Z	4
0	0	1	0	1	0	1	1	0	1	0	1	0	Z	5
0	0	1	1	0	1	0	1	1	1	1	0	Z	Z	6
0	0	1	1	1	1	1	1	0	0	0	0	Z	Z	7
0	1	0	0	0	1	1	1	1	1	1	0	Z	Z	8
0	1	0	0	1	1	1	1	0	1	1	1	Z	Z	9
0	1	0	1	0	0	1	1	1	1	1	1	Z	Z	10
0	1	0	1	1	0	0	1	1	1	1	1	Z	Z	11
0	1	1	0	0	1	1	1	1	0	1	1	Z	Z	12
0	1	1	0	1	0	0	1	1	1	1	1	Z	Z	13
0	1	1	1	0	1	1	1	1	1	1	1	Z	Z	14
0	1	1	1	1	0	0	0	1	1	1	1	Z	Z	15
1	X	X	X	X	X	X	X	X	X	X	X	Z/0	DATA LATCH	
1	X	X	X	X	X	X	X	X	X	X	X	Z/0	DATA HOLD	

0; LOW LEVEL
 1; HIGH LEVEL
 X; DON'T CARE
 Z; HIGH IMPEDANCE

TC4069UBP (TOSHIBA)
 μPD4069C (NEC)
 μPD4069UBC (NEC)
 MB84069B (FUJITSU)
 MB84069B (FUJITSU)
 HD14069BP (HITACHI)
 HD14069BP (HITACHI)
 MC14069BCP (MOTOROLA)
 C-MOS INVERTER
 - TOP VIEW -

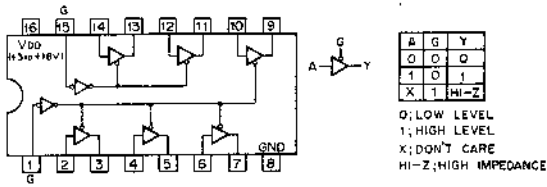


$$Y = \overline{A}$$

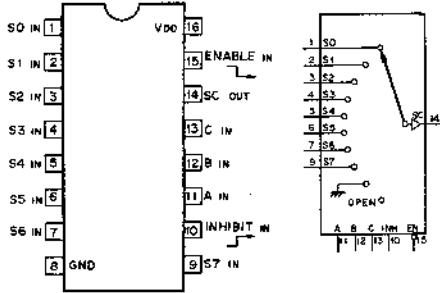
A	Y
0	1
1	0

0; LOW LEVEL
 1; HIGH LEVEL

HD14503BP (HITACHI)
MC14503BCP (MOTOROLA)
C-MOS NON-INVERTING 3-STATE BUFFER
- TOP VIEW -



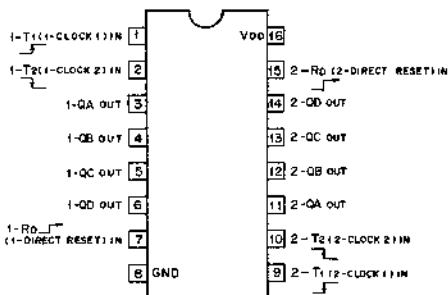
TC4512BP (TOSHIBA)
MC14512BCP (MOTOROLA)
C-MOS 8-CHANNEL DATA SELECTOR/MULTIPLEXER
- TOP VIEW -



CONTROL INPUTS					OUTPUT
EN	INH	C	B	A	SC
0	0	0	0	0	S0
0	0	0	0	1	S1
0	0	0	1	0	S2
0	0	0	1	1	S3
0	0	1	0	0	S4
0	0	1	0	1	S5
0	0	1	1	0	S6
0	0	1	1	1	S7
0	1	X	X	X	GND
1	X	X	X	X	OPEN

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE

TC4520BP (TOSHIBA)
MB84520B (FUJITSU)
MC14520BCP (MOTOROLA)
C-MOS DUAL 4-BIT BINARY UP COUNTER
- TOP VIEW -

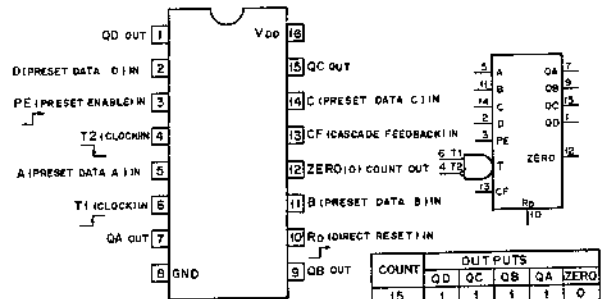


STATE	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE

T1	T2	Rd	ACTION
1	1	0	INCREMENT COUNTER
0	1	0	INCREMENT COUNTER
X	X	0	NO CHANGE
X	1	0	NO CHANGE
1	0	0	NO CHANGE
1	X	0	NO CHANGE
X	X	1	QA THRU QD = 0

MC14526BCP (MOTOROLA)
C-MOS PROGRAMMABLE DIVIDE-BY-N 4-BIT BINARY DOWN COUNTER
- TOP VIEW -

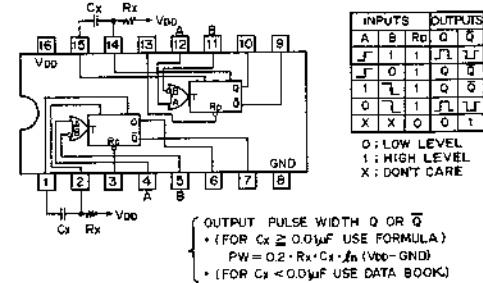


T1	T2	PE	Rd	ACTION
0	0	0	0	NO COUNT
1	0	0	0	COUNT 1
X	1	0	0	NO COUNT
1	1	0	0	COUNT 1
X	X	1	0	PRESET
X	X	X	1	RESET

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE

COUNT	OUTPUTS				
	QD	QC	QB	QA	ZERO
15	1	1	1	1	0
14	1	1	1	0	0
13	1	1	0	1	0
12	1	1	0	0	0
11	1	0	1	1	0
10	1	0	1	0	0
9	1	0	0	1	0
8	1	0	0	0	0
7	0	1	1	1	0
6	0	1	1	0	0
5	0	1	0	1	0
4	0	1	0	0	0
3	0	0	1	1	0
2	0	0	1	0	0
1	0	0	0	1	0
0	0	0	0	0	1

TC4528BP (TOSHIBA)
μPD4528C (NEC)
MC14528BCP (MOTOROLA)
C-MOS RETRIGGERABLE / RESETTABLE MMV
- TOP VIEW -

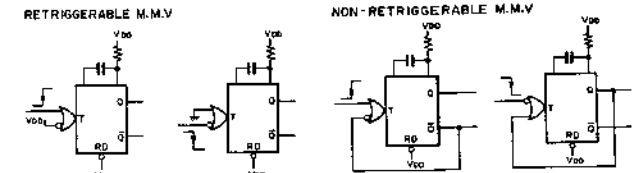
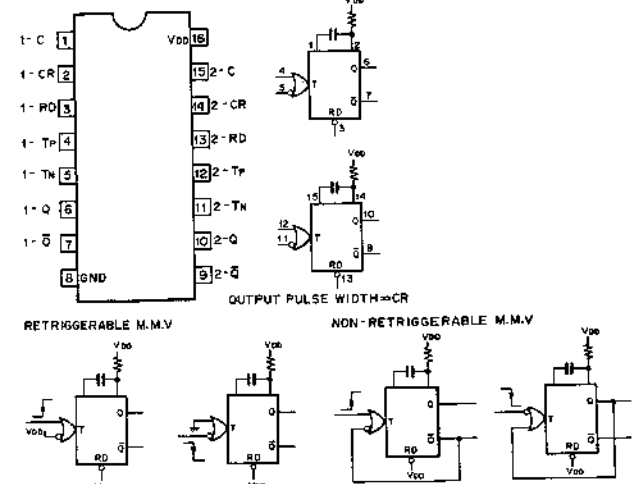


INPUTS		OUTPUTS	
A	B	Rd	Q
1	1	1	1
1	0	1	0
1	1	0	0
0	1	1	1
X	X	0	0

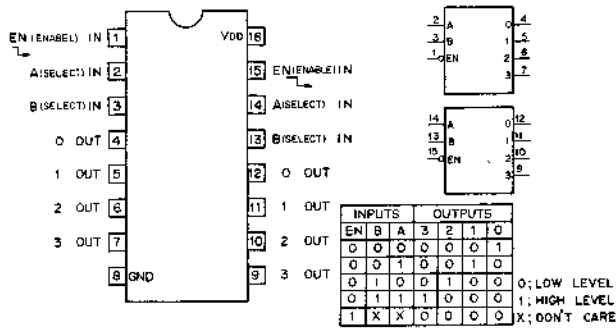
0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE

OUTPUT PULSE WIDTH Q OR Q-bar
• (FOR Cx ≥ 0.01μF USE FORMULA)
PW = 0.2 · Rx · Cx · f_m (VDD - GND)
• (FOR Cx < 0.01μF USE DATA BOOK)

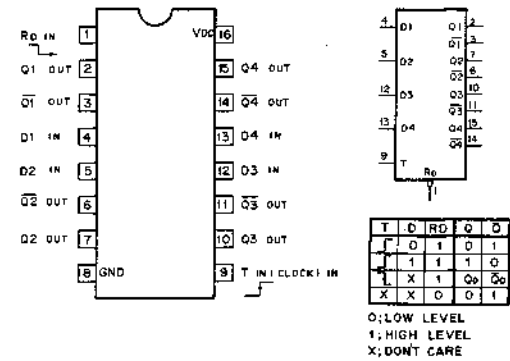
HD14538BP (HITACHI)
MC14538BCP (MOTOROLA)
C-MOS DUAL RETRIGGERABLE/NON-RETRIGGERABLE MONOSTABLE MULTIVIBRATOR
- TOP VIEW -



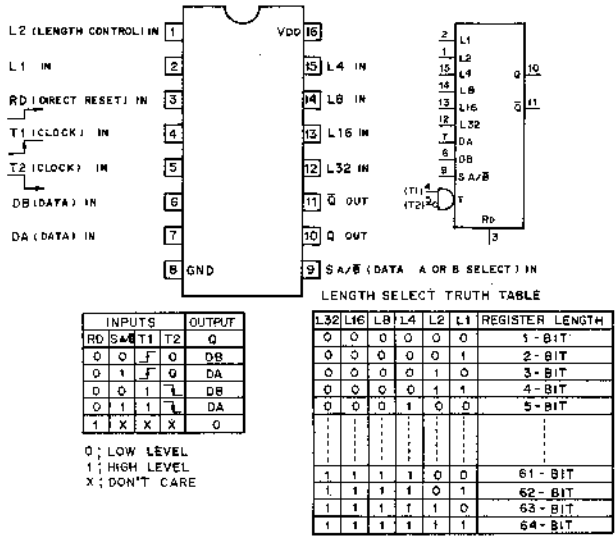
TC4555BP (TOSHIBA)
MC14555BCP (MOTOROLA)
C-MOS BINARY TO 1-OF-4 DECODER / DEMULTIPLEXER
-TOP VIEW-



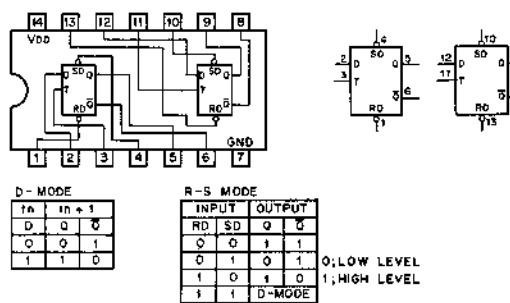
TC40175BP (TOSHIBA)
MC14175BCP (MOTOROLA)
C-MOS D-TYPE FLIP-FLOP
-TOP VIEW-



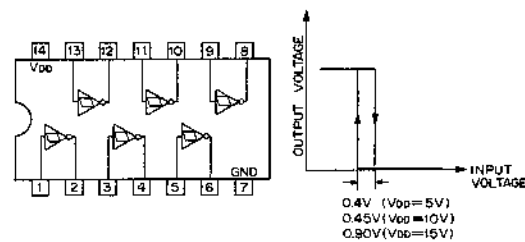
MC14557BCP (MOTOROLA)
C-MOS 1-TO-64-BIT VARIABLE LENGTH SHIFT REGISTER
-TOP VIEW-



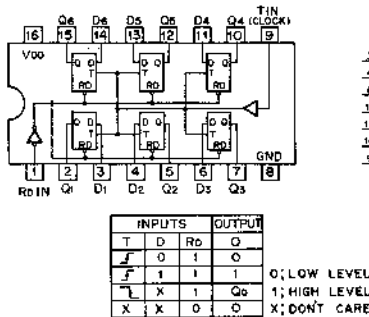
TC40H074P (TOSHIBA)
C-MOS HIGH SPEED D-TYPE FLIP-FLOP WITH DIRECT SET / RESET
-TOP VIEW-



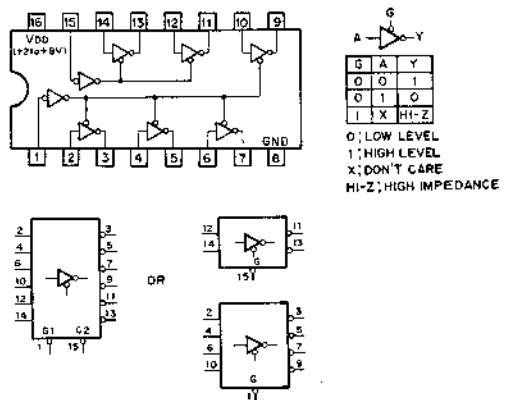
JPD4584BC (NEC)
MC14584BCP (MOTOROLA)
C-MOS SCHMITT TRIGGER INVERTER
-TOP VIEW-



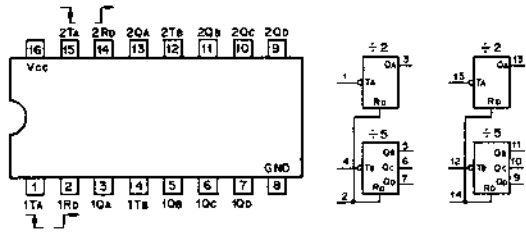
TC40174BP (TOSHIBA)
MC14174BCP (MOTOROLA)
C-MOS D-TYPE FLIP-FLOP
-TOP VIEW-



TC40H368P (TOSHIBA)
C-MOS INVERTING 3-STATE BUFFER
-TOP VIEW-



TC40H390P (TOSHIBA)
C-MOS DIVIDE-BY-2 AND DIVIDE-BY-5 COUNTER
— TOP VIEW —



COUNT SEQUENCE

COUNT	QA
0	0
1	1

÷ 5 SECTION

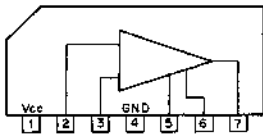
COUNT	Qa	Qc	Qb
0	0	0	0
1	0	0	1
2	0	1	0
3	0	1	1
4	1	0	0

RESET/COUNT FUNCTION

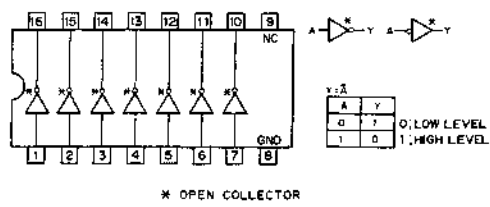
Rd	Qd	Qc	Qb	QA
1	0	0	0	0
0	COUNT			

0: LOW LEVEL
1: HIGH LEVEL

TA7069P (TOSHIBA)
VIDEO AMPLIFIER
— SIDE VIEW —



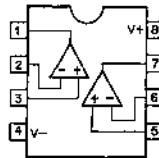
TD62105P (TOSHIBA)
TTL INVERTING DRIVER WITH OPEN COLLECTOR
— TOP VIEW —



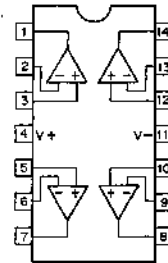
y = A-bar	A	y
0	1	0
1	0	1

* OPEN COLLECTOR

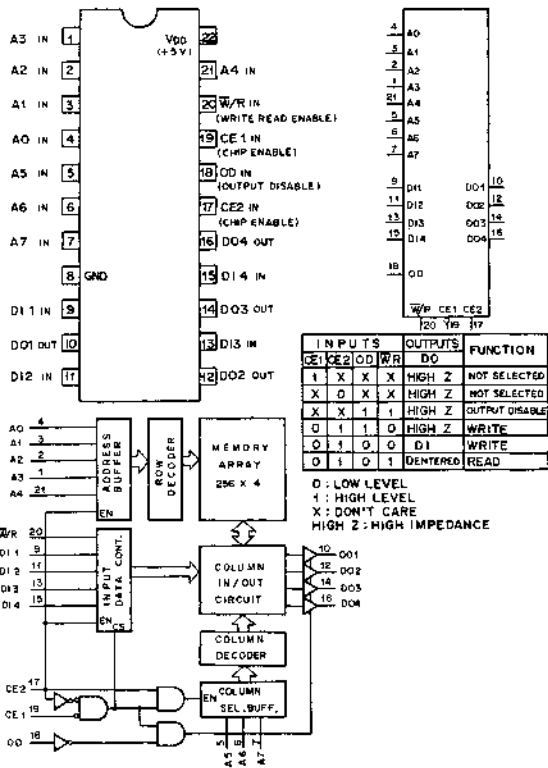
TLO72CP (TI)
TLO72ACP (TI)
TLO72BCP (TI)
OPERATIONAL AMPLIFIER
(LOW-NOISE, JFET-INPUT)
— TOP VIEW —



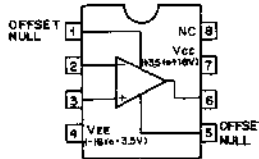
TLO74CN (TI)
TLO74ACN (TI)
TLO74BCN (TI)
OPERATIONAL AMPLIFIER
(LOW-NOISE, JFET-INPUT)
— TOP VIEW —



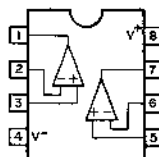
TC5501P (TOSHIBA) (ACCESS TIME = 450 nS)
TC5501P-1 (TOSHIBA) (ACCESS TIME = 650 nS)
uPD5101LC-1 (NEC) (ACCESS TIME = 450 nS)
5101L-1 (INTEL) (ACCESS TIME = 450 nS)
C-MOS 1024-BIT(256x4) STATIC RAM
— TOP VIEW —



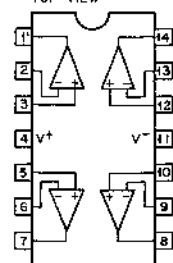
TLO81CP (TI)
OPERATIONAL AMPLIFIER
(JFET INPUT)
— TOP VIEW —



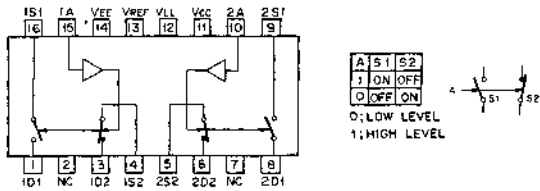
TLO82CP (TI)
μPC4082C (NEC)
TLO82ACP (TI)
TLO82BCP (TI)
OPERATIONAL AMPLIFIER
(JFET-INPUT)
— TOP VIEW —



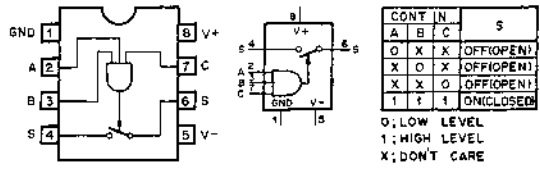
TLOB4CN (TI)
TLOB4ACN (TI)
TLOB4BCN (TI)
OPERATIONAL AMPLIFIER
(JFET-INPUT)
— TOP VIEW —



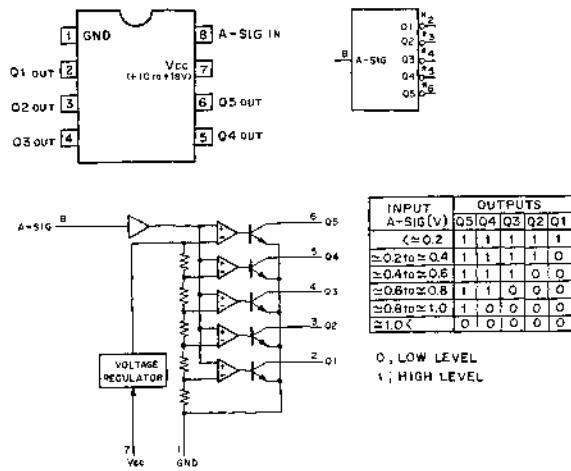
TL191CN (TI)
 TW IN DUAL COMPLEMENTARY
 8T-MOS ANALOG SWITCH
 - TOP VIEW -



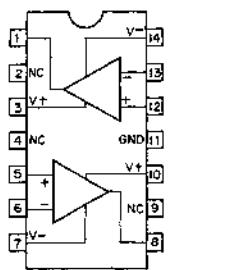
TL610CP (TI)
 MOS ANALOG SWITCH
 - TOP VIEW -



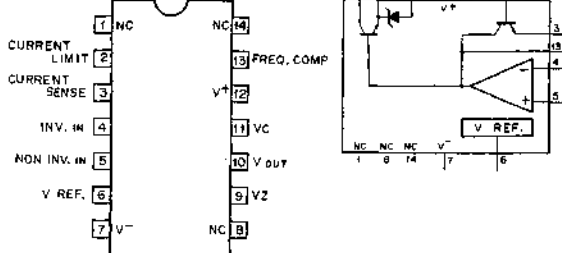
TL489CP (TI)
 5-STEP ANALOG LEVEL DETECTOR WITH OPEN COLLECTOR OUTPUT
 - TOP VIEW -



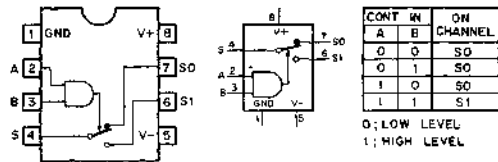
TL820CN (TI)
 VOLTAGE COMPARATOR
 (DIFFERENTIAL INPUTS)
 - TOP VIEW -



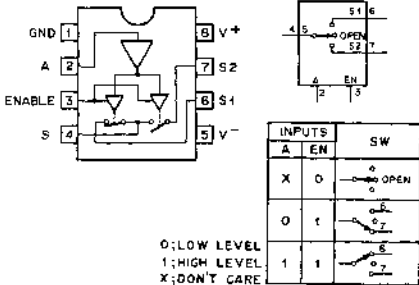
μA723DC (FSC)
HA17723G (HITACHI)
 VOLTAGE REGULATOR
 - TOP VIEW -



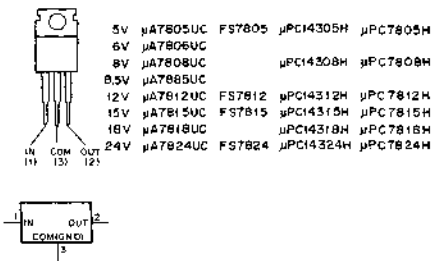
TL601CP (TI)
 P-MOS ANALOG SWITCH
 - TOP VIEW -



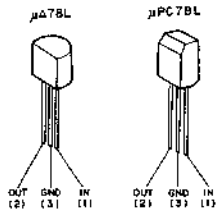
TL607CP (TI)
SN72607P (TI)
 MOS ANALOG SWITCH
 - TOP VIEW -



μA7800DC (FSC)
μPC14300H (NEC)
μPC7800H (NEC)
 POSITIVE VOLTAGE REGULATOR (1A)

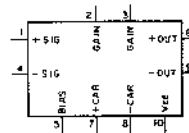
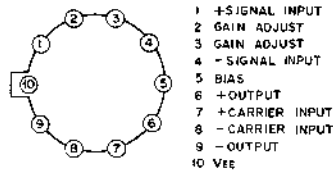


μ A78L□□AWV (FSC)
 μ A78L□□ACL (TI)
 μ PC78L□□ (NEC)
 μ PC78L□□A (NEC)
 POSITIVE VOLTAGE REGULATOR(100mA)

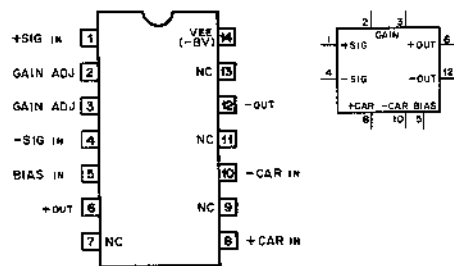


2.6V	μ A78L26AWV	μ A78L02ACL	μ PC78L05(A)
5V	μ A78L05AWV	μ A78L05ACL	
6.2V	μ A78L62AWV	μ A78L06ACL	
8V	μ A78L82AWV	μ A78L08ACL	μ PC78L08
8.2V	μ A78L82AWV	μ A78L08ACL	
9V	μ A78L09AWV	μ A78L09ACL	
10V	μ A78L10AWV	μ A78L10ACL	
12V	μ A78L12AWV	μ A78L12ACL	μ PC78L12
15V	μ A78L15AWV	μ A78L15ACL	μ PC78L15
18V	μ A78L18AWV		
24V	μ A78L24AWV		

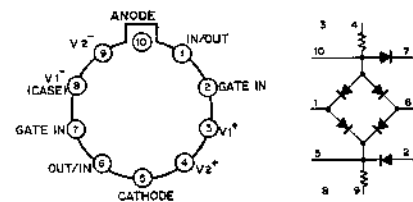
μ A796HC (FSC)
 μ A796HCA (FSC)
 DOUBLE-BALANCED MOD/DEM. MOD.
 - BOTTOM VIEW -



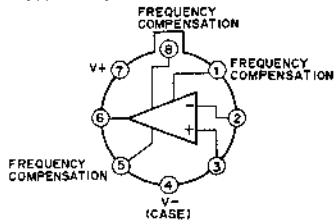
μ A796PC (FSC)
 MC1496P (MOTOROLA)
 BALANCED MODULATOR / DEMODULATOR
 - TOP VIEW -



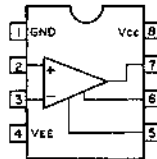
μ PC91A (NEC)
 ANALOG SWITCH
 - BOTTOM VIEW -



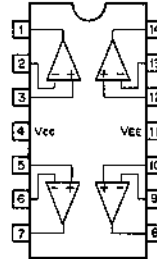
μ PC159A (NEC)
 OPERATIONAL AMPLIFIER
 (HIGH SPEED, WIDE BANDWIDTH)
 - BOTTOM VIEW -



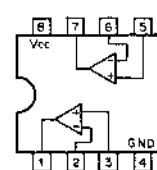
μ PC311C (NEC)
 VOLTAGE COMPARATOR
 - TOP VIEW -



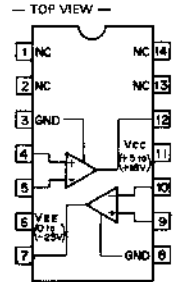
μ PC324C (NEC)
 QUAD. OP. AMPLIFIER
 - TOP VIEW -



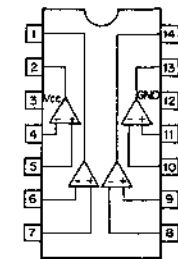
μ PC358C (NEC)
 LM358P (TI)
 DUAL OPERATIONAL AMPLIFIERS
 - TOP VIEW -



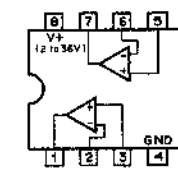
μ PC272C (NEC)
 μ PC319C (NEC)
 DUAL VOLTAGE COMPARATOR
 - TOP VIEW -



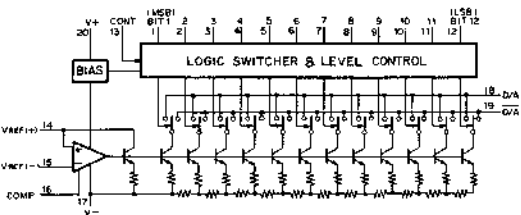
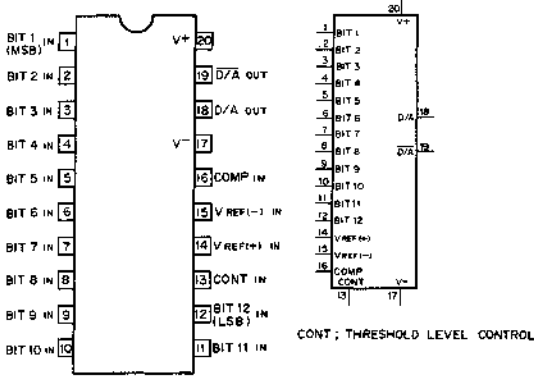
μ PC339C (NEC)
 COMPARATOR
 - TOP VIEW -



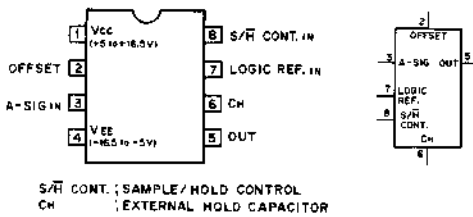
μ PC393C (NEC)
 μ PC393G (NEC)
 DUAL OPERATIONAL AMPLIFIERS
 - TOP VIEW -



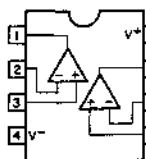
μPC648D (NEC)
12-BIT D/A CONVERTER WITH OPEN COLLECTOR OUTPUT
- TOP VIEW -



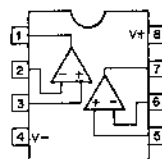
μPC649C (NEC)
SAMPLE AND HOLD CIRCUIT
- TOP VIEW -



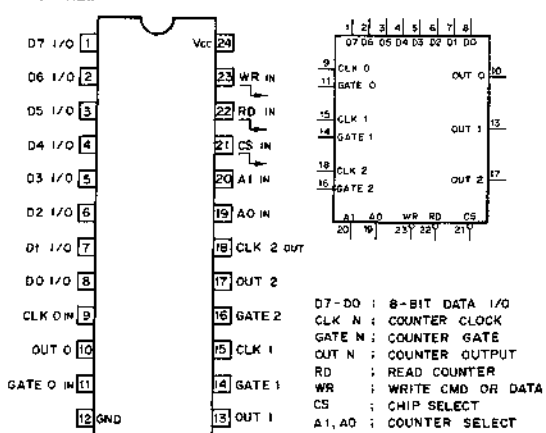
μPC4556C (NEC)
OPERATIONAL AMPLIFIER (WIDE BAND, DECOMPENSATED)
- TOP VIEW -



μPC4557C (NEC)
OPERATIONAL AMPLIFIER (WIDE BAND, LOW NOISE)
- TOP VIEW -



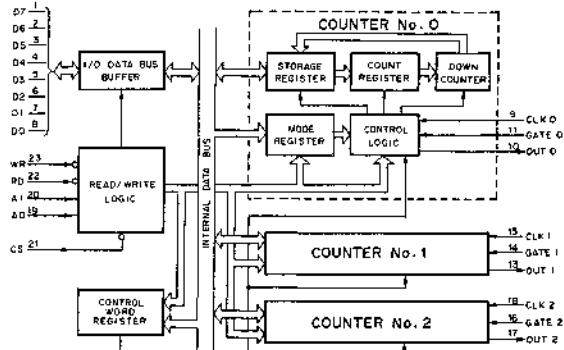
μPD8253C-5 (NEC)
8253-5 (INTEL)
N-MOS PROGRAMMABLE INTERVAL TIMER
- TOP VIEW -



FUNCTION TABLE

INPUTS						FUNCTION
CS	RD	WR	A1	AO		
0	1	0	0	0		Load Counter No. 0
0	1	0	0	1		Load Counter No. 1
0	1	0	1	0		Load Counter No. 2
0	1	0	1	1		Control Word
0	0	1	0	0		Read Counter 0
0	0	1	0	1		Read Counter 1
0	0	1	1	0		Read Counter 2
0	0	1	1	1		No-Operation (HI-Z)
1	X	X	X	X		Disable (HI-Z)
0	1	1	X	X		No-Operation (HI-Z)

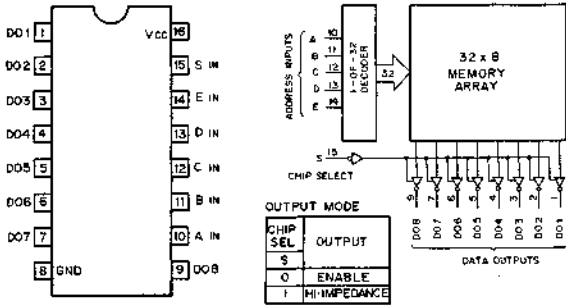
0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE
HI-Z: HIGH IMPEDANCE



CONTROL WORD FORMAT

D7	D6	D5	D4	D3	D2	D1	DO																												
SC1	SC0	RL1	RL0	M2	M1	M0	BCD																												
<table border="1"> <thead> <tr> <th>BCD</th> <th>OPERATION</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>16-BIT BINARY</td> </tr> <tr> <td>1</td> <td>BCD(4-DECADE)</td> </tr> </tbody> </table>								BCD	OPERATION	0	16-BIT BINARY	1	BCD(4-DECADE)																						
BCD	OPERATION																																		
0	16-BIT BINARY																																		
1	BCD(4-DECADE)																																		
<table border="1"> <thead> <tr> <th>M2</th> <th>M1</th> <th>M0</th> <th>MODE</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>0</td> <td>0</td> <td>1</td> <td>1</td> </tr> <tr> <td>X</td> <td>1</td> <td>0</td> <td>2</td> </tr> <tr> <td>X</td> <td>1</td> <td>1</td> <td>3</td> </tr> <tr> <td>1</td> <td>0</td> <td>0</td> <td>4</td> </tr> <tr> <td>1</td> <td>0</td> <td>1</td> <td>5</td> </tr> </tbody> </table>								M2	M1	M0	MODE	0	0	0	0	0	0	1	1	X	1	0	2	X	1	1	3	1	0	0	4	1	0	1	5
M2	M1	M0	MODE																																
0	0	0	0																																
0	0	1	1																																
X	1	0	2																																
X	1	1	3																																
1	0	0	4																																
1	0	1	5																																
<table border="1"> <thead> <tr> <th>RL1</th> <th>RL0</th> <th>OPERATION</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>COUNTER LATCHING</td> </tr> <tr> <td>0</td> <td>1</td> <td>READ/LOAD LSB ONLY</td> </tr> <tr> <td>1</td> <td>0</td> <td>READ/LOAD MSB ONLY</td> </tr> <tr> <td>1</td> <td>1</td> <td>LSB FIRST THEN MSB</td> </tr> </tbody> </table>								RL1	RL0	OPERATION	0	0	COUNTER LATCHING	0	1	READ/LOAD LSB ONLY	1	0	READ/LOAD MSB ONLY	1	1	LSB FIRST THEN MSB													
RL1	RL0	OPERATION																																	
0	0	COUNTER LATCHING																																	
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1	0	READ/LOAD MSB ONLY																																	
1	1	LSB FIRST THEN MSB																																	
<table border="1"> <thead> <tr> <th>SC1</th> <th>SC0</th> <th>SELECTED COUNTER</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>COUNTER No. 0</td> </tr> <tr> <td>0</td> <td>1</td> <td>COUNTER No. 1</td> </tr> <tr> <td>1</td> <td>0</td> <td>COUNTER No. 2</td> </tr> <tr> <td>1</td> <td>1</td> <td>ILLEGAL</td> </tr> </tbody> </table>								SC1	SC0	SELECTED COUNTER	0	0	COUNTER No. 0	0	1	COUNTER No. 1	1	0	COUNTER No. 2	1	1	ILLEGAL													
SC1	SC0	SELECTED COUNTER																																	
0	0	COUNTER No. 0																																	
0	1	COUNTER No. 1																																	
1	0	COUNTER No. 2																																	
1	1	ILLEGAL																																	

MB7051 (FUJITSU)
 256-BIT (32x 8) PROM (3-STATE OUTPUT)
 - TOP VIEW -



MB7051-A1U1
 PROGRAMMED DATA

WORD (ADDRESS)	DATA OUTPUTS (IN HEXADECIMAL)
0-15	3F, 1E, 39, 1B, 27, 36, 20, 3F, 3F, 2D, 36, 27, 1B, 39, 1E, 3F,
16-31	3F, 3F, 3F, 3F, 3F, 3F, 3F, 3F, 3F, 3F, 3F, 3F, 3F, 3F, 3F, 3F,

MB7051-E1U1
 PROGRAMMED DATA

WORD (ADDRESS)	DATA OUTPUTS (IN HEXADECIMAL)
0-15	90, 03, 00, D3, 01, 03, 01, 03, 00, 03, 00, 03, 01, 03, 01, 03,
16-31	01, 03, 02, D3, 01, 03, 01, 03, 00, 03, 02, 03, 01, 03, 01, 03,

MB7051-L1A1
 PROGRAMMED DATA

WORD (ADDRESS)	DATA OUTPUTS (IN HEXADECIMAL)
0-15	FF, FB, F1, FD, FF, DF, FF, F9, 80, 4A, E0, P8, FD, DE, FC, FF,
16-31	D5, B0, 88, 8E, F2, D0, F2, 7E, 88, C3, F1, F9, FD, FE, FC, FC,

MB7051-L1U1
 PROGRAMMED DATA

WORD (ADDRESS)	DATA OUTPUTS (IN HEXADECIMAL)
0-15	FF, FE, F8, F7, FF, E1, FF, FA, 7F, 81, DF, FB, F8, E7, F4, FF,
16-31	95, B0, B0, E2, F4, D6, F4, E6, 88, 91, F7, FC, F3, FD, FC, FC,

MB7051-L2A1
 PROGRAMMED DATA

WORD (ADDRESS)	DATA OUTPUTS (IN HEXADECIMAL)
0-15	3A, 3A, 38, B8, 98, B8, BE, BE, B6, B7, 37, 33, 31, B1, B1, B7,
16-31	B7, B6, B6, B6, F6, E6, F6, B6, B6, B6, 36, 36, 36, 3E, 3A,

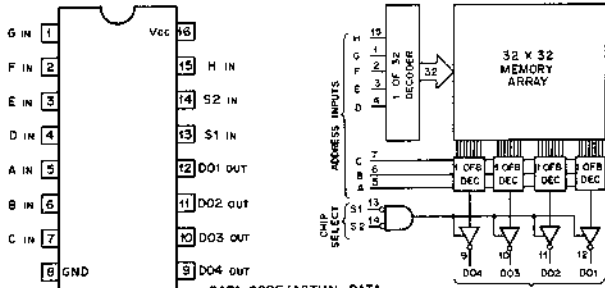
MB7051-L2U1
 PROGRAMMED DATA

WORD (ADDRESS)	DATA OUTPUTS (IN HEXADECIMAL)
0-15	3A, 3A, 38, B8, 98, B8, BE, BE, B6, B7, 37, 33, 31, B1, B1, B7,
16-31	B7, B6, B6, B6, F6, E6, F6, B6, B6, B6, 36, 36, 36, 3E, 3A,

MB7051-R2U1
 PROGRAMMED DATA

WORD (ADDRESS)	DATA OUTPUTS (IN HEXADECIMAL)
0-15	10, 10, 04, 05, 0E, 0F, 18, 18, 30, 10, 04, 05, 0E, 0F, 18, 18,
16-31	17, 17, 00, 01, 0A, 0B, 1F, 3F, 17, 17, 00, 01, 0A, 0B, 1F, 1F,

MB7052 (FUJITSU)
1024-BIT (256 x 4) PROM (3-STATE OUTPUT)
— TOP VIEW —



WORD/ADDRESS TABLE

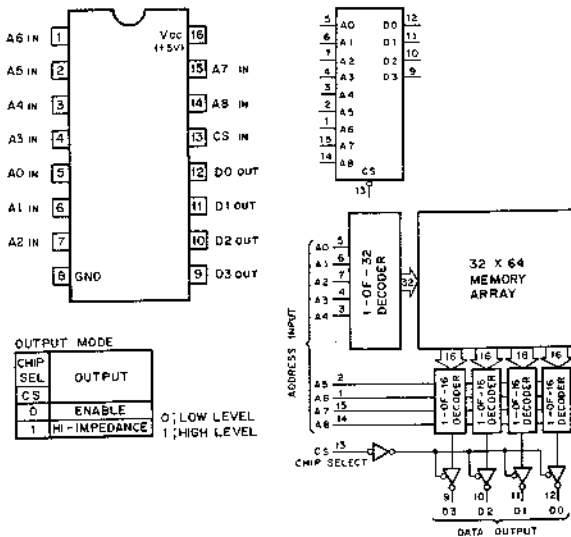
WORD	ADDRESS INPUTS							
	H	G	F	E	D	C	B	A
0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	1	0
3	0	0	0	0	0	0	1	1
4	0	0	0	0	0	1	0	0
5	0	0	0	0	0	1	0	1
6	0	0	0	0	0	1	1	0
7	0	0	0	0	0	1	1	1
8	0	0	0	1	0	0	0	0
9	0	0	0	1	0	0	0	1
10	0	0	0	1	0	0	1	0
11	0	0	0	1	0	0	1	1
12	0	0	0	1	1	0	0	0
13	0	0	0	1	1	0	0	1
14	0	0	0	1	1	1	0	0
15	0	0	0	1	1	1	0	1

DATA CODE	ACTUAL DATA			
	DO4	DO3	DO2	DO1
0	0	0	0	0
1	0	0	0	1
2	0	0	0	1
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

DATA OUTPUTS		OUTPUT
CHIP SEL	S1 S2	
0	0 0	ENABLE
X	1 1	HI-IMPEDANCE
1	X X	HI-IMPEDANCE

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

MB7053 (FUJITSU)
2048-BIT (512 x 4) PROM (3-STATE OUTPUT)
— TOP VIEW —



WORD/ADDRESS TABLE

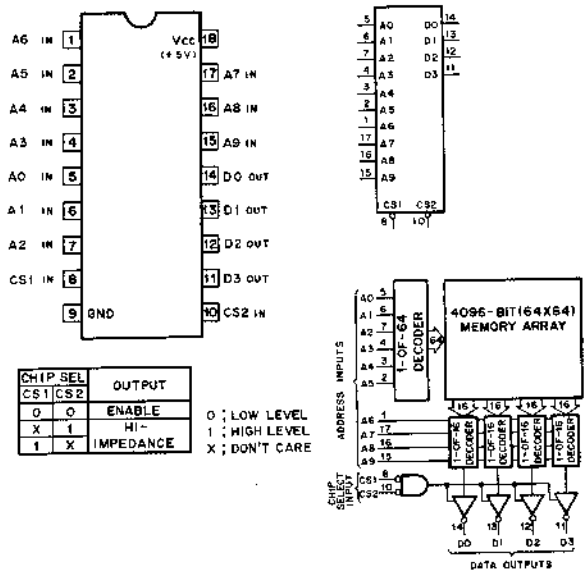
WORD	ADDRESS INPUTS							
	A8	A7	A6	A5	A4	A3	A2	A1
0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	1	0
3	0	0	0	0	0	0	1	1
4	0	0	0	1	0	0	0	0
5	0	0	0	1	0	0	0	1
6	0	0	0	1	0	1	0	0
7	0	0	0	1	0	1	0	1
8	0	0	0	1	1	0	0	0
9	0	0	0	1	1	0	0	1
10	0	0	0	1	1	1	0	0
11	0	0	0	1	1	1	0	1
12	0	0	1	0	0	0	0	0
13	0	0	1	0	0	0	0	1
14	0	0	1	0	0	1	0	0
15	0	0	1	0	0	1	0	1

DATA CODE	ACTUAL DATA			
	D3	D2	D1	D0
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

MB7052-R101
PROGRAMMED DATA

WORD (ADDRESS)	DATA OUTPUTS (IN HEXADECIMAL)
0 - 15	0. 3. 6. 1. 7. 2. 3. 2. 2. 3. 2. 7. 1. 6. 3. 0.
16 - 31	0. 3. 6. 1. 7. 2. 3. 2. 2. 3. 2. 7. 1. 6. 3. 0.
32 - 47	8. B. E. 9. F. A. B. A. B. A. B. A. F. 9. E. B. 8.
48 - 63	0. 3. 6. 1. 7. 2. 3. 2. 2. 3. 2. 7. 1. 6. 3. 0.
64 - 79	4. 3. 6. 5. 7. 6. 7. 2. 2. 7. 6. 7. 5. 6. 3. 4.
80 - 95	C. B. E. D. P. E. F. A. A. F. B. F. D. E. B. C.
96 - 111	4. 3. 6. 5. 7. 6. 7. 2. 2. 7. 6. 7. 5. 6. 3. 4.
112 - 127	4. 3. 6. 5. 7. 6. 7. 2. 2. 7. 6. 7. 5. 6. 3. 4.
128 - 143	0. 3. 6. 1. 7. 2. 3. 2. 2. 3. 2. 7. 1. 6. 3. 0.
144 - 159	0. 3. 6. 1. 7. 2. 3. 2. 2. 3. 2. 7. 1. 6. 3. 0.
160 - 175	8. B. E. 9. F. A. B. A. B. A. B. A. F. 9. E. B. 8.
176 - 191	0. 3. 6. 1. 7. 2. 3. 2. 2. 3. 2. 7. 1. 6. 3. 0.
192 - 207	4. 3. 6. 5. 7. 6. 7. 2. 2. 7. 6. 7. 5. 6. 3. 4.
208 - 223	C. B. E. D. P. E. F. A. A. F. B. F. D. E. B. C.
224 - 239	4. 3. 6. 5. 7. 6. 7. 2. 2. 7. 6. 7. 5. 6. 3. 4.
240 - 255	4. 3. 6. 5. 7. 6. 7. 2. 2. 7. 6. 7. 5. 6. 3. 4.

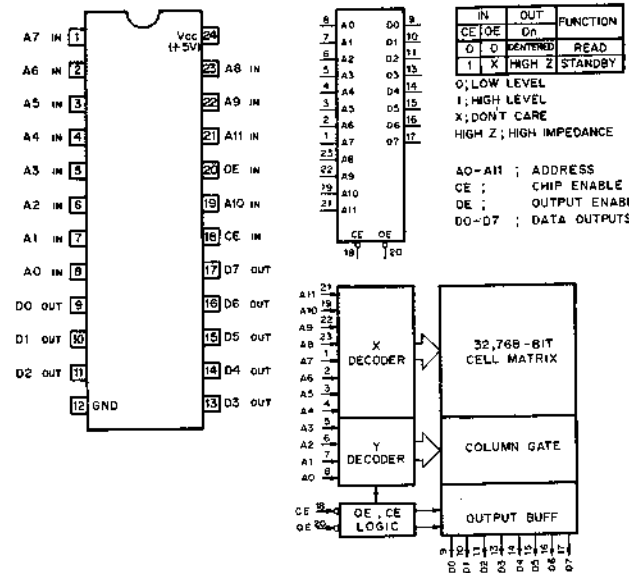
MB7054 (FUJITSU)
 uPB426D (NEC)
 4096-BIT (1024x4) PROM (3-STATE OUTPUT)
 - TOP VIEW -



CHIP SEL	OUTPUT
CS1 CS2	
0 0	ENABLE
X 1	HI-
1 X	IMPEDANCE

0 ; LOW LEVEL
 1 ; HIGH LEVEL
 X ; DON'T CARE

MBM2732A-35Z (FUJITSU)
 M5L2732K (MITSUBISHI)
 2732 (INTEL)
 32K (4K-8) UV ERASABLE PROM
 - TOP VIEW -



IN	OUT	FUNCTION
CE OE	On	READ
0 0		STANDBY
1 X		STANDBY

0 ; LOW LEVEL
 1 ; HIGH LEVEL
 X ; DON'T CARE
 HIGH Z ; HIGH IMPEDANCE

A0-A11 ; ADDRESS
 CE ; CHIP ENABLE
 OE ; OUTPUT ENABLE
 D0-D7 ; DATA OUTPUTS

WORD/ADDRESS TABLE

WORD	ADDRESS INPUTS									
	A9	A8	A7	A6	A5	A4	A3	A2	A1	A0
0	0	0	0	0	0	0	0	0	0	0
1	0	0	1	0	0	0	0	0	0	0
2	0	0	2	0	0	0	0	0	0	0
3	0	0	3	0	0	0	0	0	0	0
4	0	0	4	0	0	0	0	0	0	0
5	0	0	5	0	0	0	0	0	0	0
6	0	0	6	0	0	0	0	0	0	0
7	0	0	7	0	0	0	0	0	0	0
8	0	0	8	0	0	0	0	0	0	0
9	0	0	9	0	0	0	0	0	0	0
10	0	0	A	0	0	0	0	0	0	0
11	0	0	B	0	0	0	0	0	0	0
12	0	0	C	0	0	0	0	0	0	0
13	0	0	D	0	0	0	0	0	0	0
14	0	0	E	0	0	0	0	0	0	0
15	0	0	F	0	0	0	0	0	0	0
16	0	1	0	0	0	0	0	0	0	0
...
1021	3	F	D	1	1	1	1	1	1	1
1022	3	F	E	1	1	1	1	1	1	1
1023	3	F	F	1	1	1	1	1	1	1

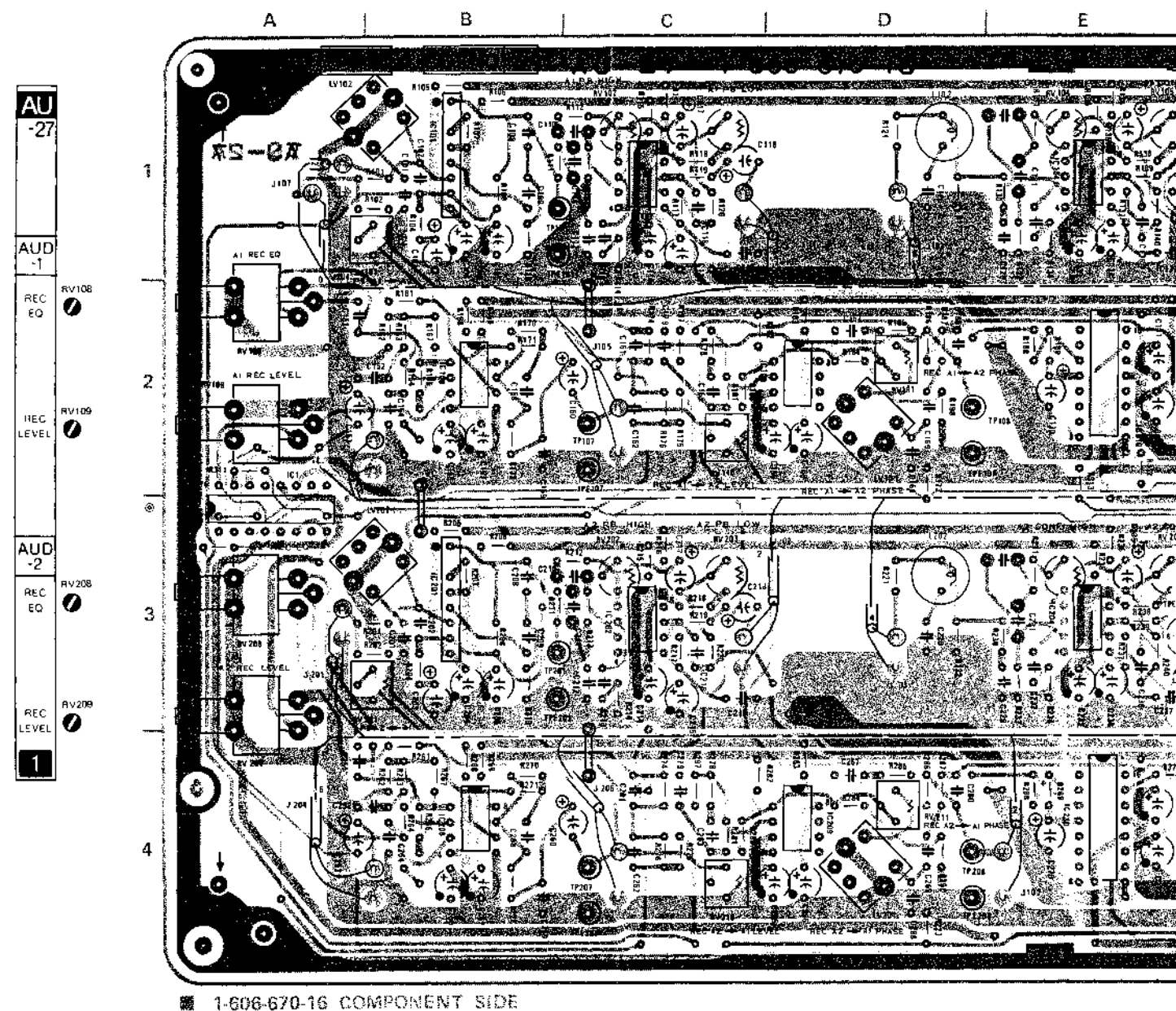
IN HEXADECIMAL
 IN DECIMAL

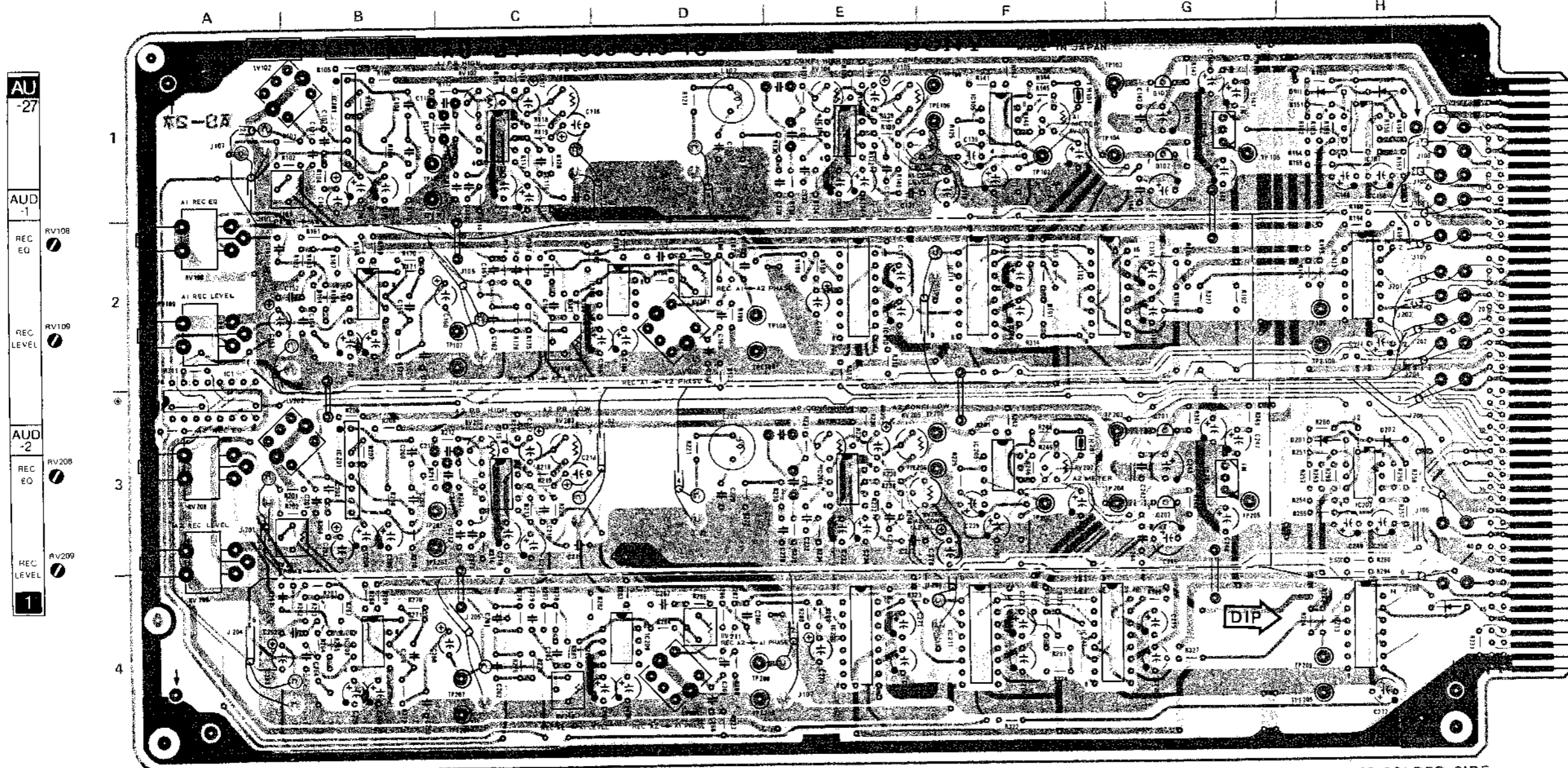
DATA CODE/ACTUAL DATA

DATA CODE	ACTUAL DATA			
	D3	D2	D1	D0
0	0	0	0	0
1	1	0	0	0
2	2	0	0	0
3	3	0	0	0
4	4	0	1	0
5	5	0	1	0
6	6	0	1	0
7	7	0	1	0
8	8	1	0	0
9	9	1	0	0
10	A	1	0	0
11	B	1	0	0
12	C	1	0	0
13	D	1	0	0
14	E	1	0	0
15	F	1	0	0

IN HEXADECIMAL
 IN DECIMAL

AU-27 BOARD (1-606-670-16)
Component Side





AU-27 (1-606-670-13 & UP)

BVH-2000/PS/PM
BVH-2500/P

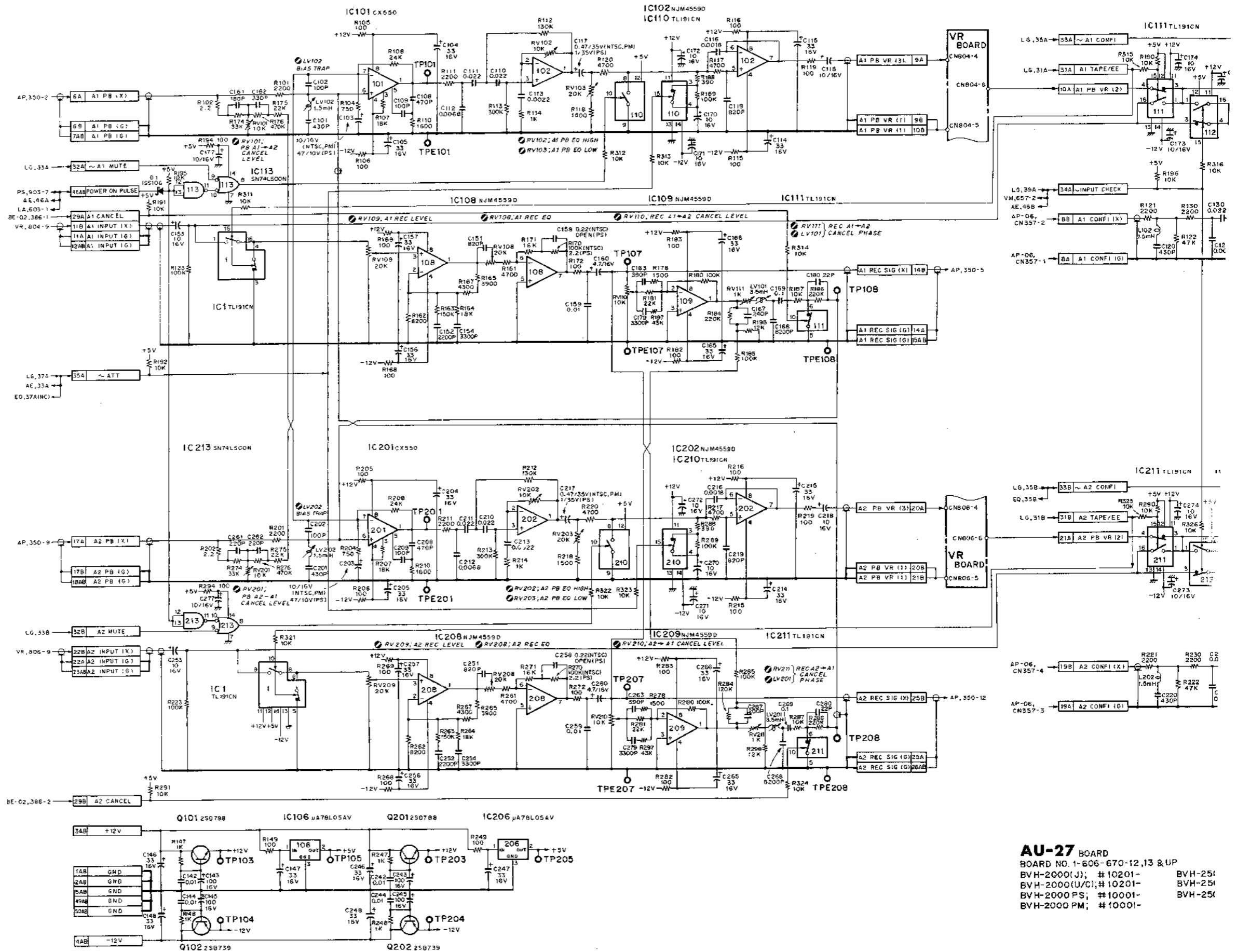
D1	4H	TH101 1F
D101	1H	TH202 3F
D102	1H	
D201	3H	TP101 1C
D202	3H	TP102 1F
		TP103 1G
		TP104 1G
		TP105 1G
IC1	3A	TP106 1F
IC101	1B	TP107 2C
IC102	1C	TP108 2D
IC104	1E	TP109 2H
IC105	1F	TP201 3C
IC106	1G	TP202 3F
IC107	1H	TP203 3G
IC108	2B	TP204 3G
IC109	2D	TP205 3G
IC110	2E	TP206 3F
IC111	2F	TP207 4C
IC112	2G	TP208 4D
IC113	2H	TP209 4H
IC201	3B	
IC202	1C	TPE101
IC204	3E	TPE106 1F
IC205	3F	TPE107 2C
IC206	3G	TPE108 2D
IC207	3H	TPE109 2H
IC208	4B	TPE201 3C
IC209	4D	TPE206 3F
IC210	4E	TPE207 4C
IC211	4F	TPE208 4D
IC212	4G	TPE209 4H
IC213	4H	
J1	1H	
J2	3H	
LV101	2D	
LV102	1B	
LV201	4D	
LV202	3B	
Q101	1G	
Q102	1G	
Q201	3G	
Q202	3G	
RV101	1B	
RV102	1C	
RV103	1C	
RV104	1E	
RV105	1E	
RV106	1F	
RV107	1F	
RV108	2A	
RV109	2A	
RV110	2C	
RV111	2D	
RV201	3B	
RV202	3C	
RV203	3C	
RV204	3E	
RV205	3E	
RV206	3F	
RV207	3F	
RV208	3A	
RV209	3A	
RV210	4C	
RV211	2D	

1-606-670-16 COMPONENT SIDE

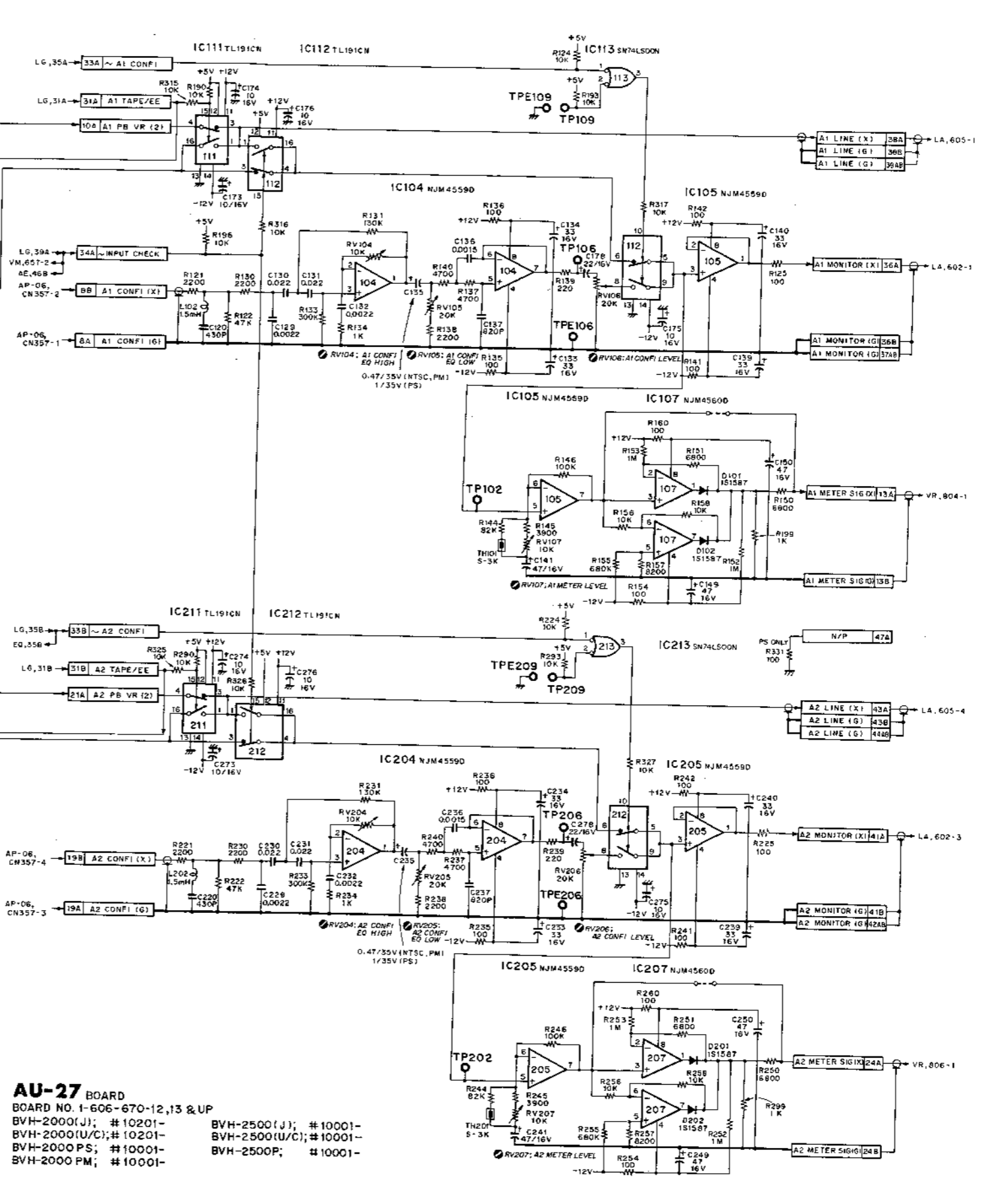
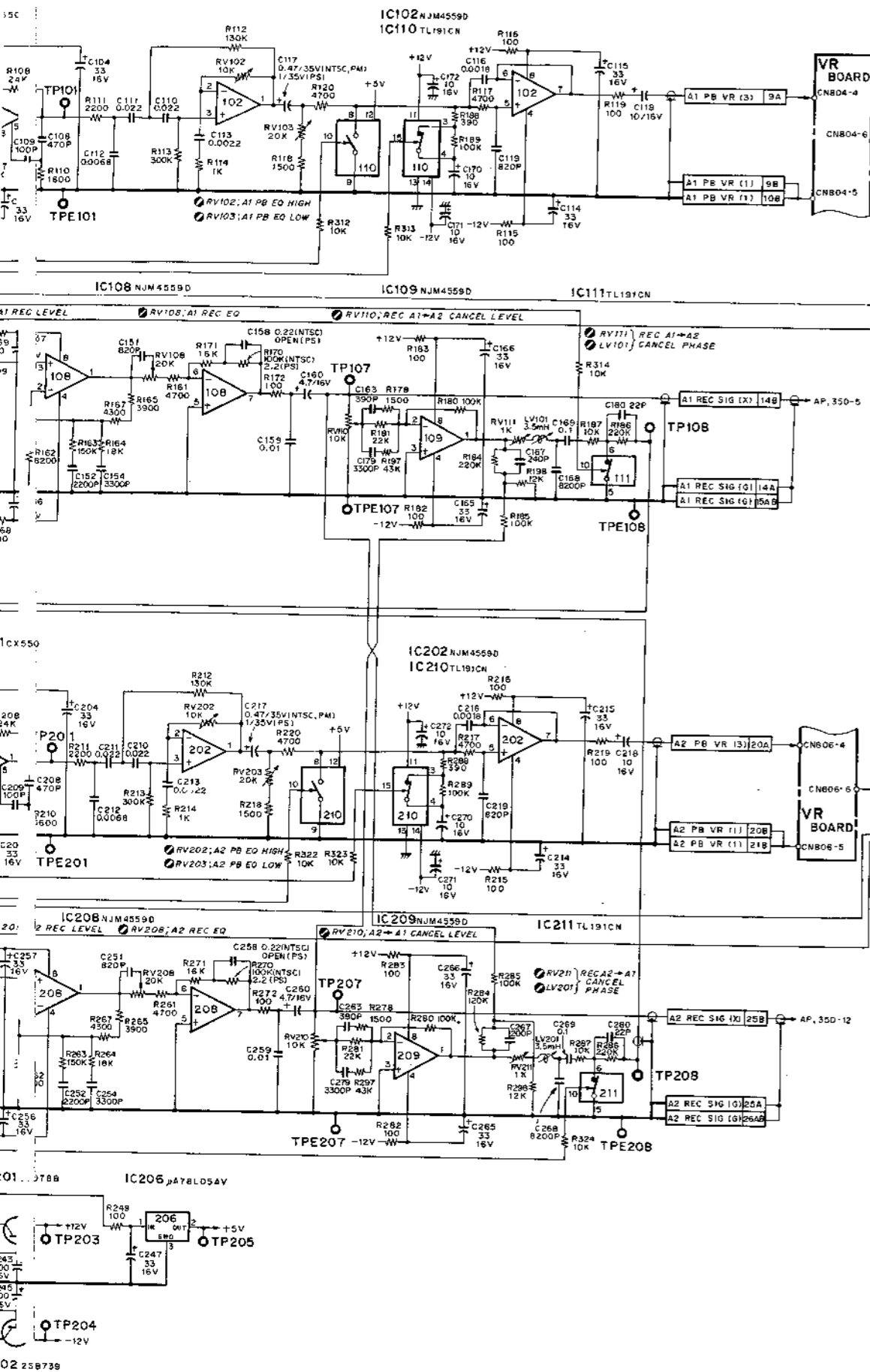
1-606-670-16 SOLDER SIDE

AU-27 BOARD

Audio-1, 2 REC EQ/PB Amplifier

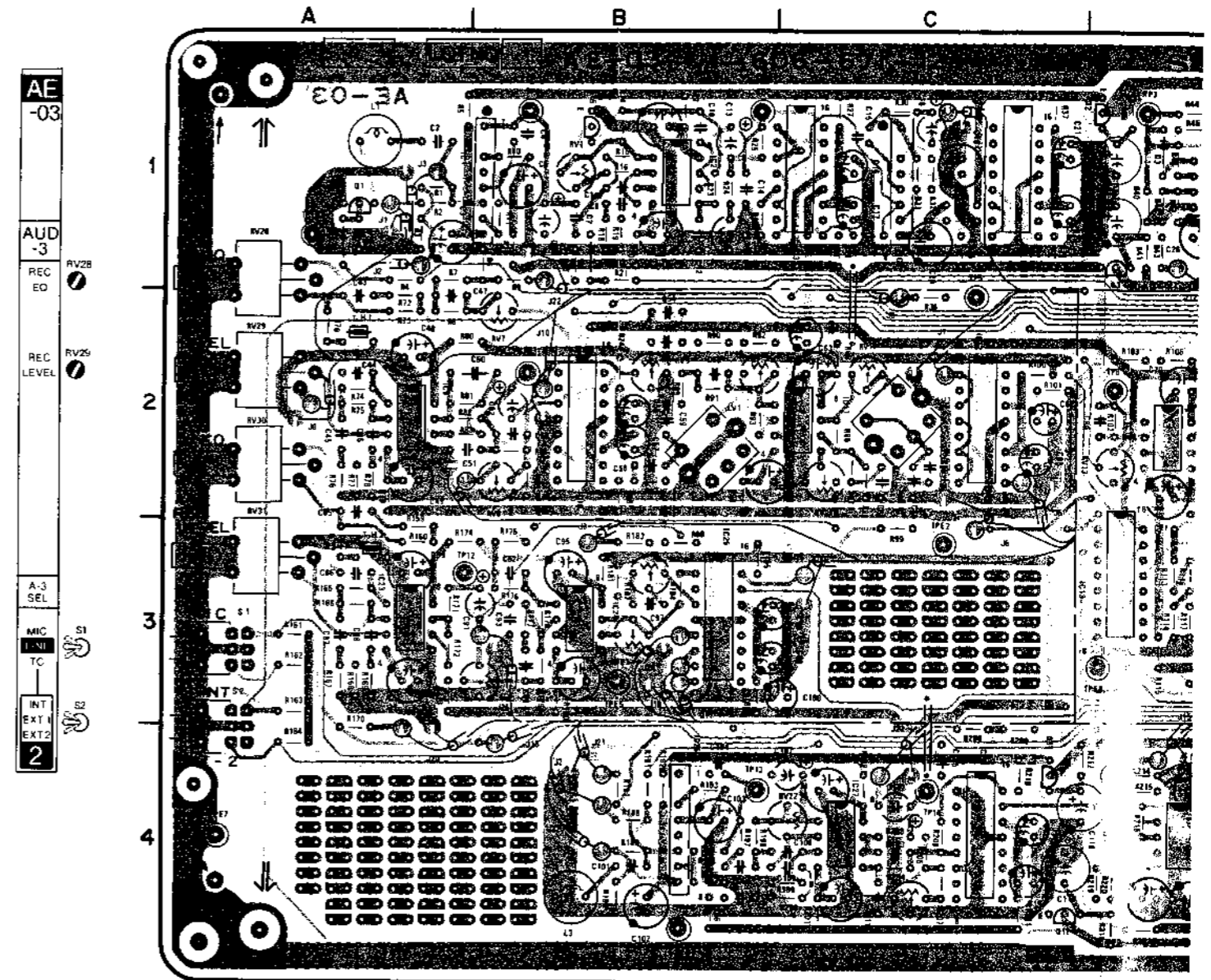


AU-27 BOARD
 BOARD NO. 1-606-670-12, 13 & UP
 BVH-2000(J); # 10201- BVH-251
 BVH-2000(U/C); # 10201- BVH-251
 BVH-2000 PS; # 10001- BVH-251
 BVH-2000 PM; # 10001-



AU-27 BOARD
BOARD NO. 1-606-670-12,13 & UP
BVH-2000(J); #10201-10202
BVH-2000(U/C); #10201-10202
BVH-2000(PS); #10001-10002
BVH-2000(PM); #10001-10002
BVH-2500(J); #10001-10002
BVH-2500(U/C); #10001-10002
BVH-2500(P); #10001-10002
BVH-2500(PM); #10001-10002

AE-03 BOARD (1-606-671-12)
Component Side



1-606-671-12 COMPONENT SIDE

AE-03

AUD-3

REC EO

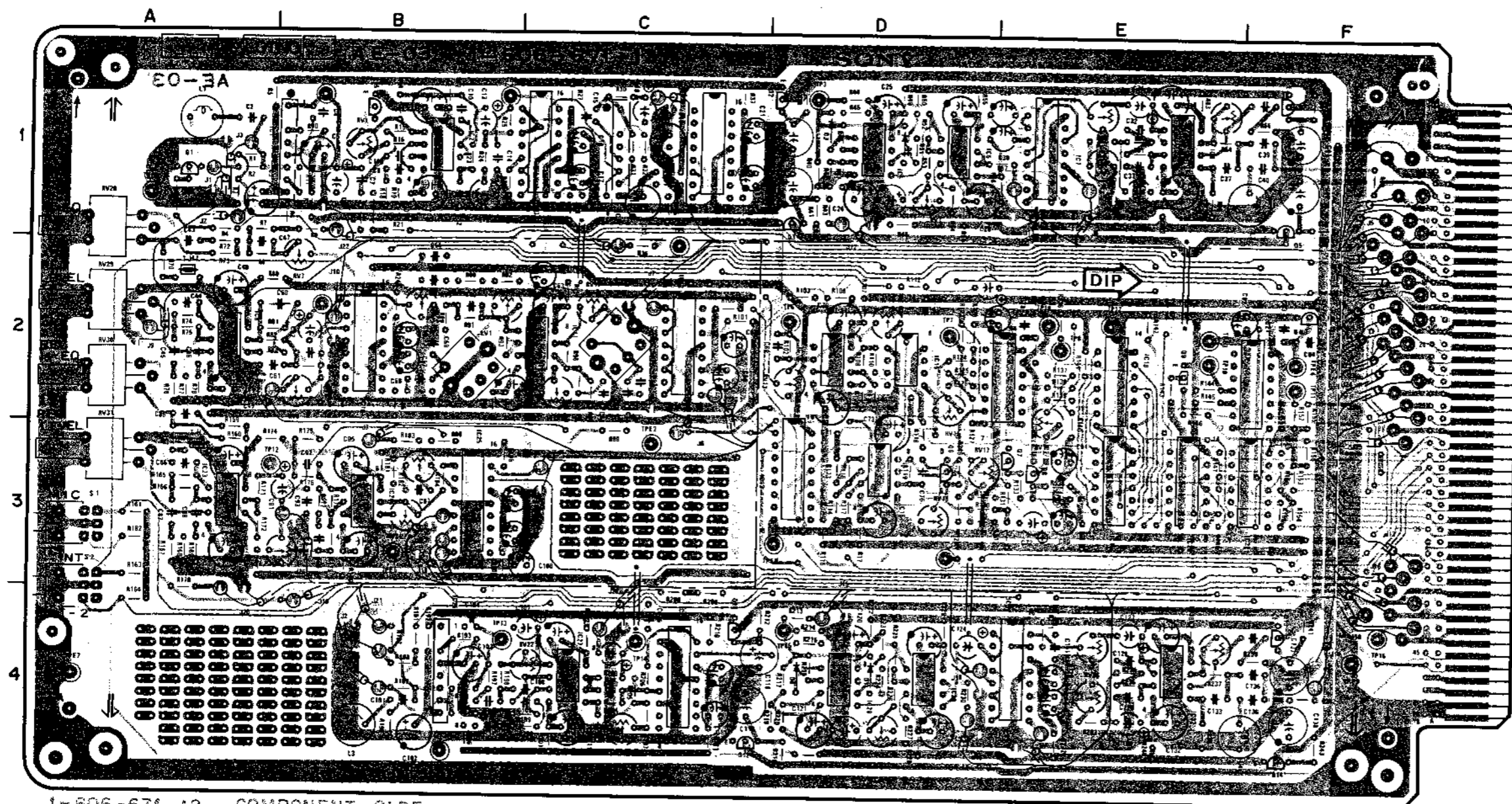
REC LEVEL

A-3 SEL

MIC LINE TC

INT EXT 1 EXT 2

2

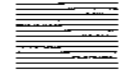


AE-03 (1-606-671-12)

BVH-2000(J,U/C)	RV1	1B
BVH-2000PS	RV2	1B
	RV3	1D
	RV4	1E
	RV5	1E
	RV6	1E
	RV8	2B
	RV9	2B
	RV12	2C
	RV13	2D
	RV15	2D
	RV16	3D
	RV17	3D
	RV18	2E
	RV28	1A
	RV29	2A
	RV32	3C
	S1	3A
	S2	4A
	TP1	1B
	TP2	1B
	TP3	1D
	TP4	2B
	TP5	2C
	TP6	2D
	TP7	2D
	TP8	2E
	TP9	3C
	TP11	2F
	TP17	2E
	TP18	2E
	TPE1	1A
	TPE2	3C
	TPE4	2F
	TPE7	4A
	TPE8	3D
	TPE9	4F
	LV2	2C
	Q1	1A
	Q2	1D
	Q3	1D
	Q4	1F
	Q5	1F
	Q6	3D
	Q7	3E
	Q8	3E
	Q9	2E
	Q15	1B

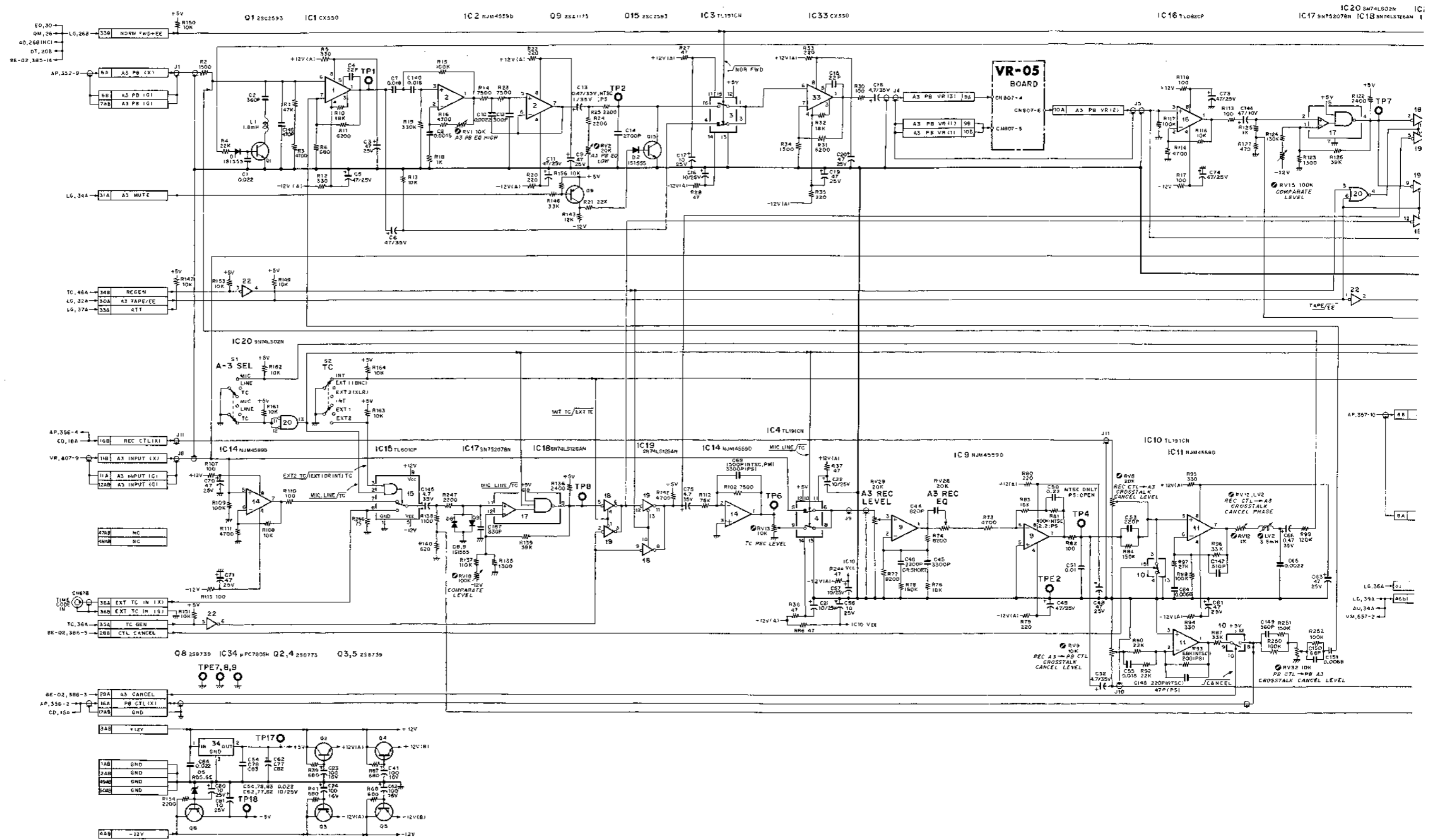
1-606-671-12 COMPONENT SIDE

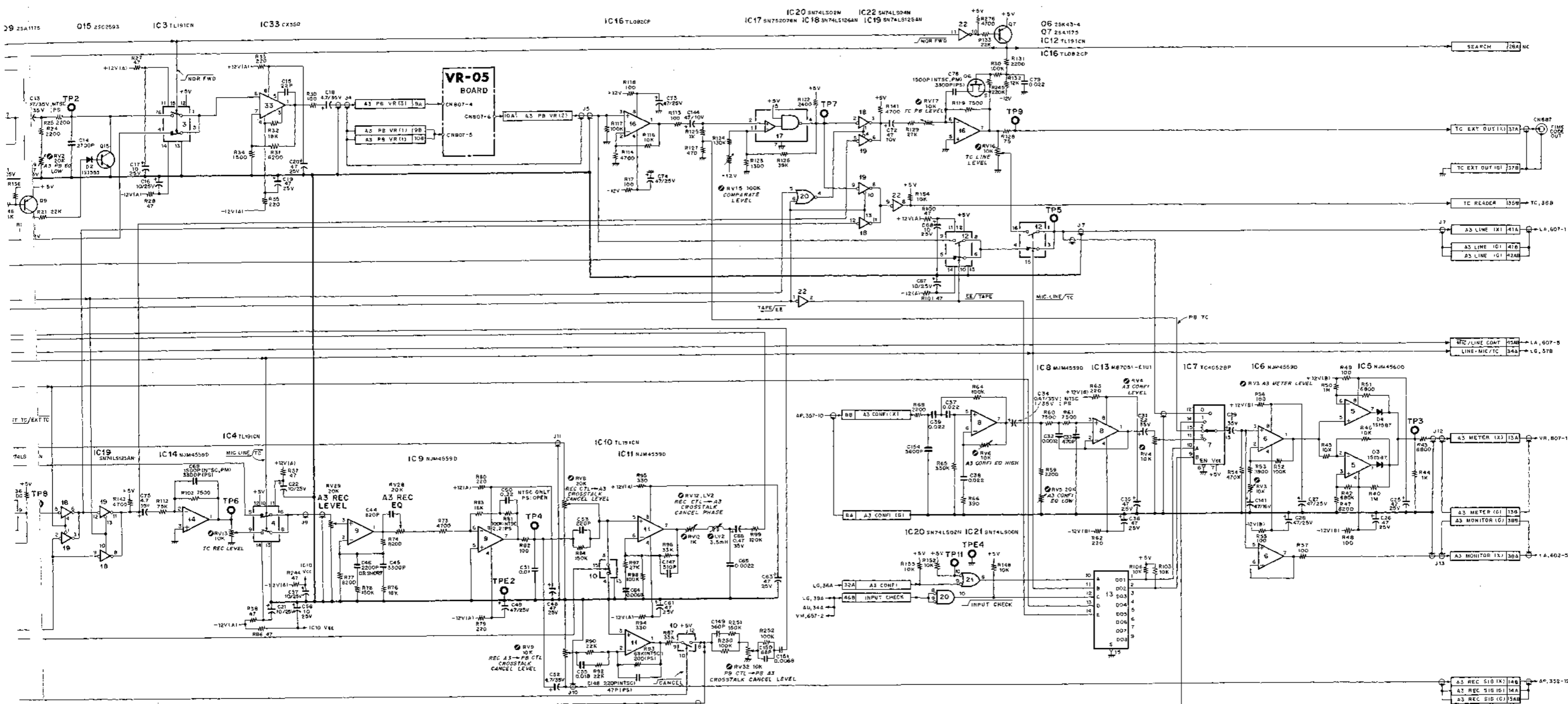
1-606-671-12



AE-03 BOARD

Audio-3 REC EQ/PB Amplifier





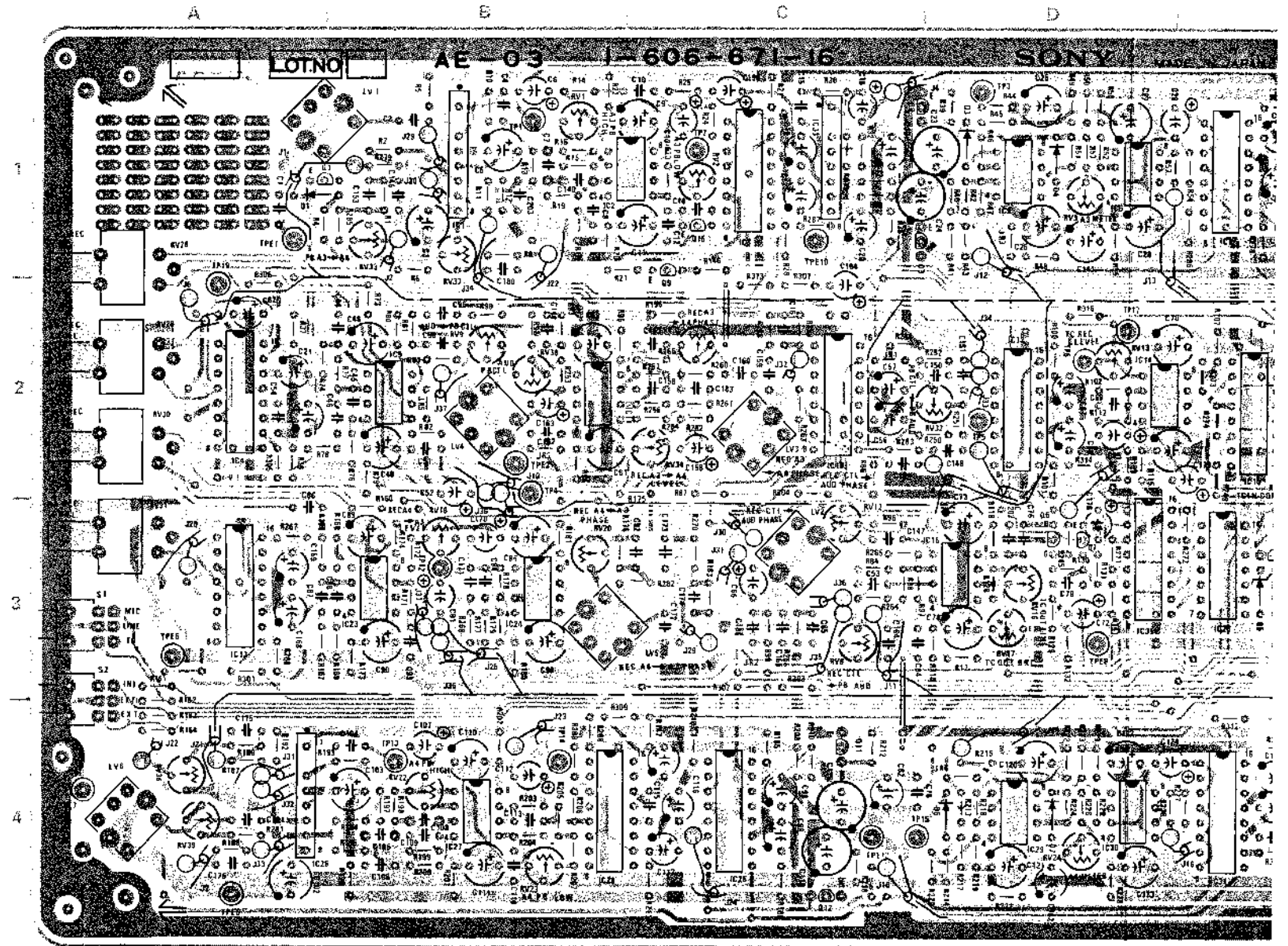
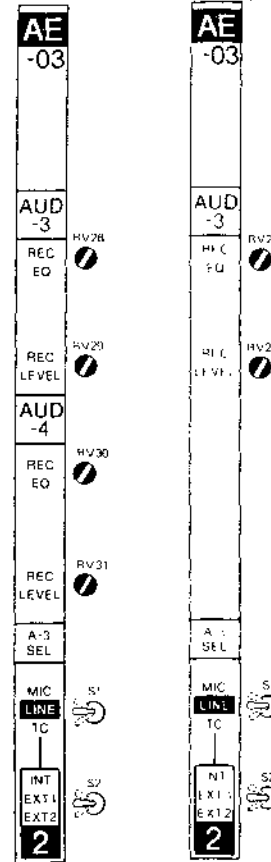
AE-03 BOARD (FOR O2)
 BOARD NO. 1-606-671-11/-12
 BVH-2000 (J); # 10001-10499
 BVH-2000 (U/C); # 10001-10499
 BVH-2000PS; # 10001-10299

AE-03 BOARD (1-606-671-16)

Component Side

BVH-2000PS (for 04 model) BVH-2000(J, U/C) BVH-2000PS BVH-2000PM (for 02/00 models)

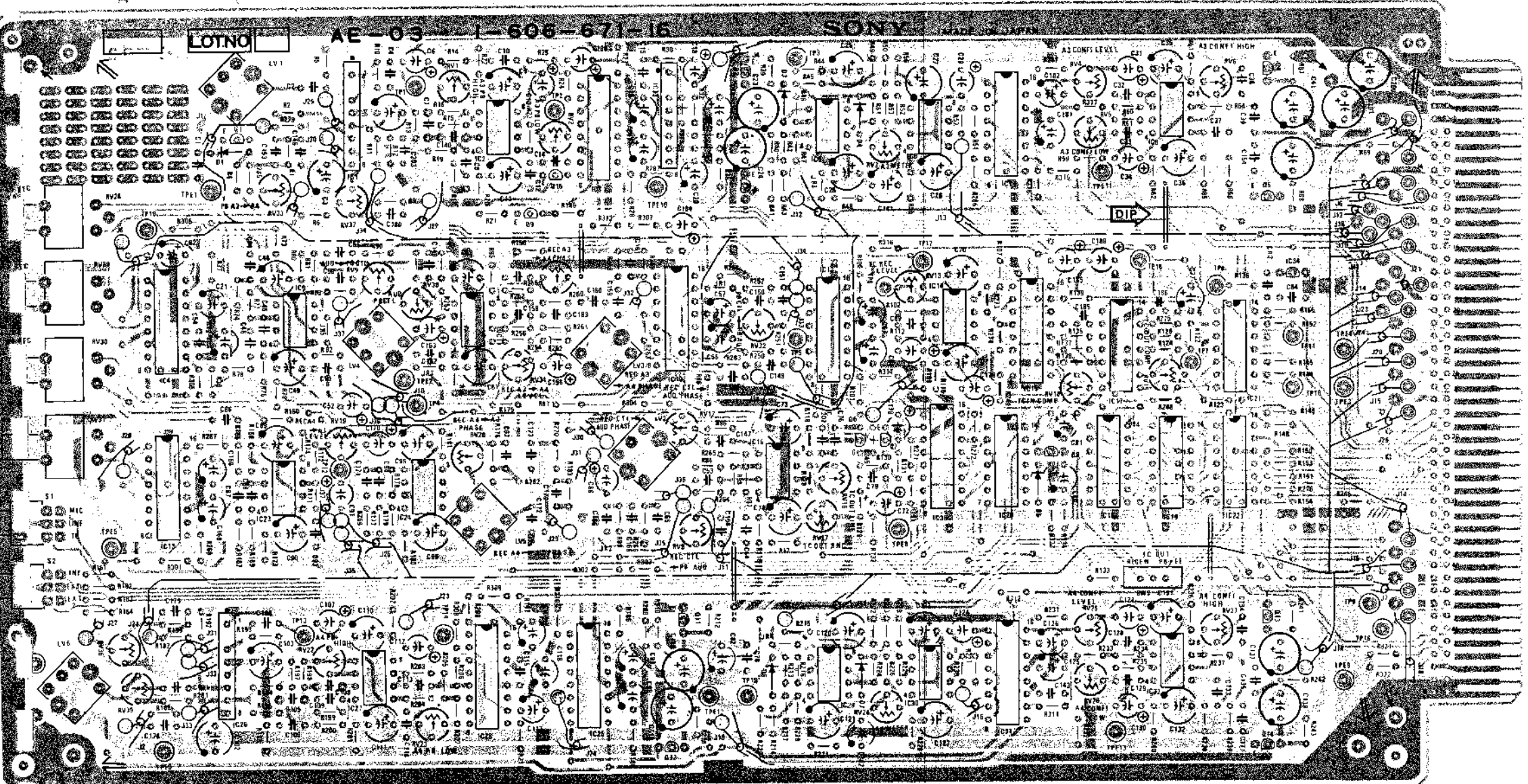
BVH-2500(J,U/C) BVH-2500P



1-606-671-16 COMPONENT SIDE



A B C D E F

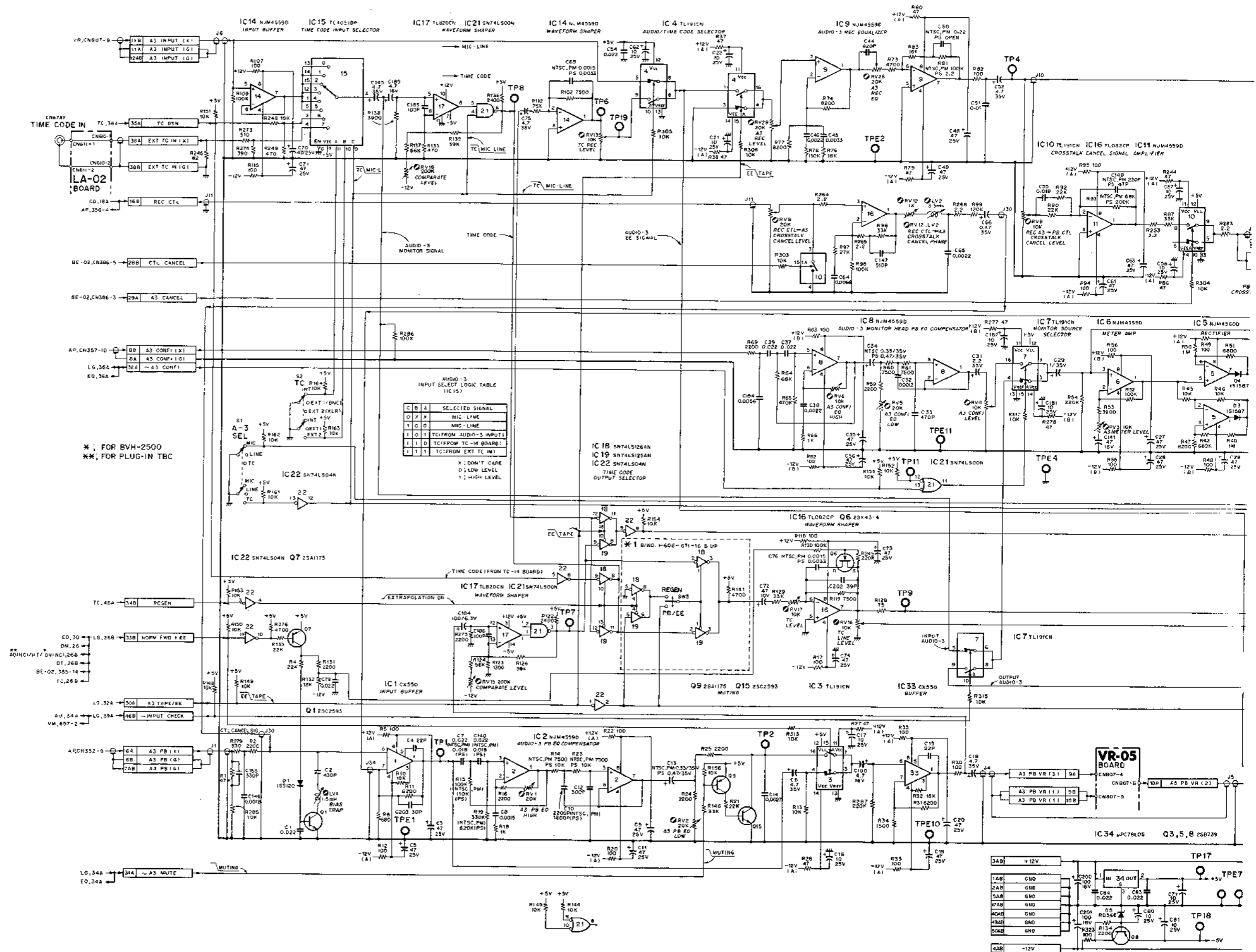


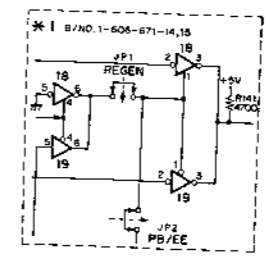
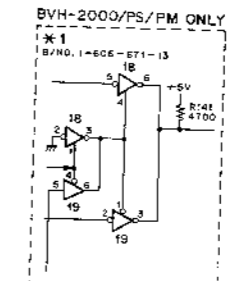
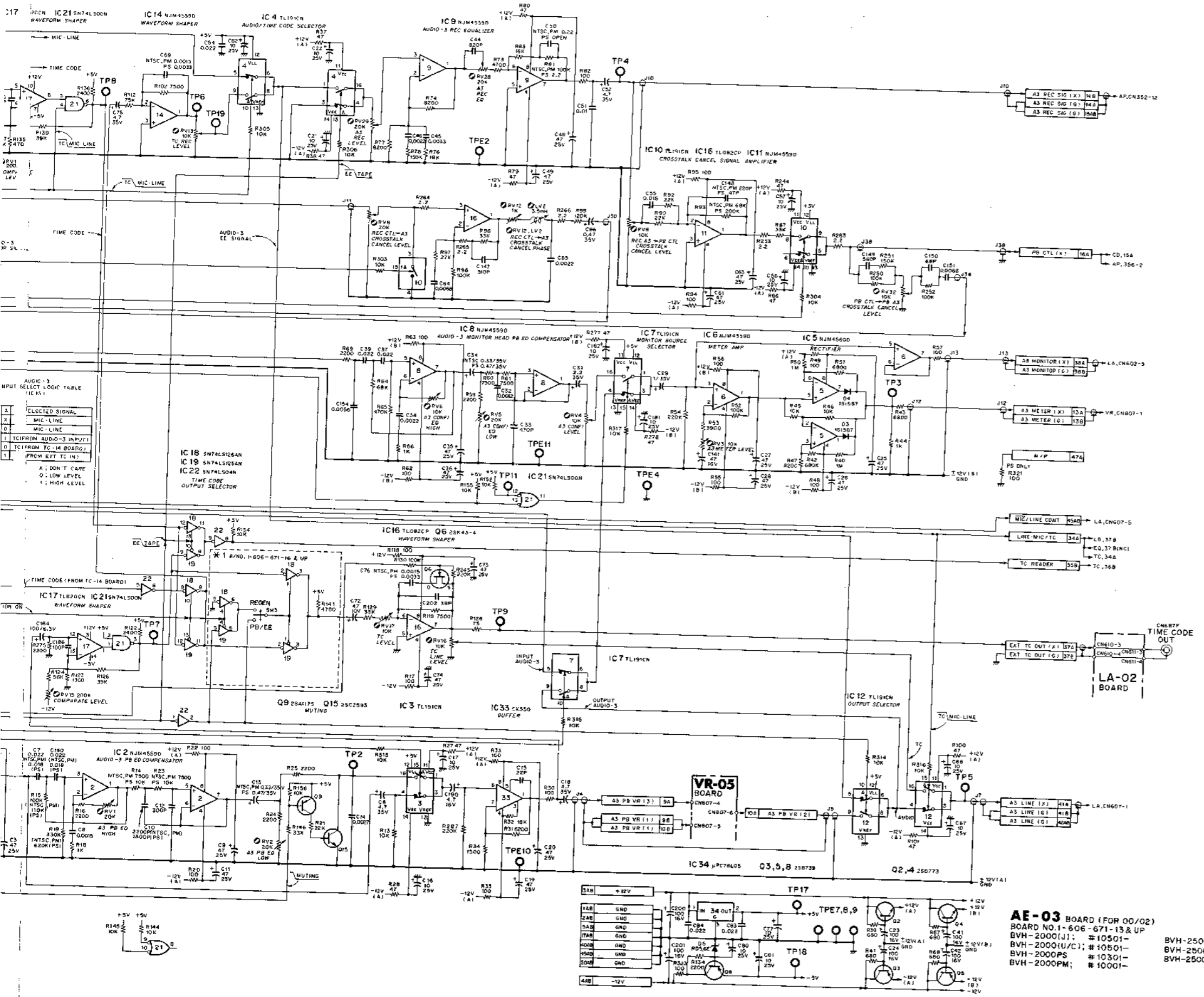
AE-03 (1-606-671-16 & UP)		AE-03 (1-606-671-16 & UP)	
BVH-2000(J,U/C)	RV1 1B	BVH-2000PS	RV1 1B
BVH-2000PS	RV2 1C	104 MODEL	RV2 1C
100/O2 MODEL	RV3 1D	D1 1A	RV4 1C
BVH-2000PM	RV4 1E	O3 10	RV5 1E
BVH-2900(J,U/C)	RV5 1E	O4 10	RV6 1E
BVH-2500P	RV6 1E	O5 3E	RV8 3C
	RV7 2B	O6 40	RV9 2B
	RV12 3C	O7 40	RV12 3C
	RV13 2D		RV13 2D
	RV15 2E		RV15 2E
	RV16 3D		RV16 3D
	RV17 3D		RV17 3D
	RV18 2E		RV18 2E
	RV28 1A		RV19 3B
	RV29 2A		RV20 3E
	RV32 2D		RV22 4B
	S1 3A		RV23 4B
	S2 4A		RV24 4D
	S3 4E		RV25 4E
	TP1 1B		RV26 1A
	TP2 1C		RV29 2A
	TP3 1D		RV30 2A
	TP4 2B		RV31 3A
	TP5 2D		RV32 2D
	TP6 2D		RV33 1B
	TP7 2E		RV34 2C
	TP8 2E		RV35 2C
	TP9 4F		RV36 4A
	TP11 2F		RV37 1B
	TP17 2D		RV38 2B
	TP18 2E		RV24 5B
	TP19 2A		S1 3A
	TP21 1A		S2 4A
	TP22 2B		S3 4E
	TP23 2F		TP1 1B
	TP24 4A		TP2 1C
	TP25 3D		TP3 1D
	TP26 3D		TP4 2B
	TP27 4E		TP5 2D
	TP28 4E		TP6 2D
	TP29 1C		TP7 2E
	TP30 1C		TP8 2E
	TP31 1C		TP9 4F
	TP32 1C		TP10 1C
	TP33 1C		TP11 2F
	TP34 2F		TP12 3D
	TP35 3D		TP13 2D
	TP36 3D		TP14 4B
	TP37 3D		TP15 4D
	TP38 3D		TP16 4F
	TP39 3D		TP17 2D
	TP40 3D		TP18 2E
	TP41 3D		TP19 2A
	TP42 3D		TP20 3E
	TP43 3D		TP21 1A
	TP44 3D		TP22 2B
	TP45 3D		TP23 2F
	TP46 3D		TP24 4A
	TP47 3D		TP25 3A
	TP48 3D		TP26 3A
	TP49 3D		TP27 4A
	TP50 3D		TP28 5D
	TP51 3D		TP29 4F
	TP52 3D		TP30 1C
	TP53 3D		TP31 1C
	TP54 3D		TP32 1C
	TP55 3D		TP33 1C
	TP56 3D		TP34 2F
	TP57 3D		TP35 3D
	TP58 3D		TP36 3D
	TP59 3D		TP37 3D
	TP60 3D		TP38 3D
	TP61 3D		TP39 3D
	TP62 3D		TP40 3D
	TP63 3D		TP41 3D
	TP64 3D		TP42 3D
	TP65 3D		TP43 3D
	TP66 3D		TP44 3D
	TP67 3D		TP45 3D
	TP68 3D		TP46 3D
	TP69 3D		TP47 3D
	TP70 3D		TP48 3D
	TP71 3D		TP49 3D
	TP72 3D		TP50 3D
	TP73 3D		TP51 3D
	TP74 3D		TP52 3D
	TP75 3D		TP53 3D
	TP76 3D		TP54 3D
	TP77 3D		TP55 3D
	TP78 3D		TP56 3D
	TP79 3D		TP57 3D
	TP80 3D		TP58 3D
	TP81 3D		TP59 3D
	TP82 3D		TP60 3D
	TP83 3D		TP61 3D
	TP84 3D		TP62 3D
	TP85 3D		TP63 3D
	TP86 3D		TP64 3D
	TP87 3D		TP65 3D
	TP88 3D		TP66 3D
	TP89 3D		TP67 3D
	TP90 3D		TP68 3D
	TP91 3D		TP69 3D
	TP92 3D		TP70 3D
	TP93 3D		TP71 3D
	TP94 3D		TP72 3D
	TP95 3D		TP73 3D
	TP96 3D		TP74 3D
	TP97 3D		TP75 3D
	TP98 3D		TP76 3D
	TP99 3D		TP77 3D
	TP100 3D		TP78 3D

1-606-671-16 COMPONENT SIDE

1-606-671-16 SOLDER SIDE

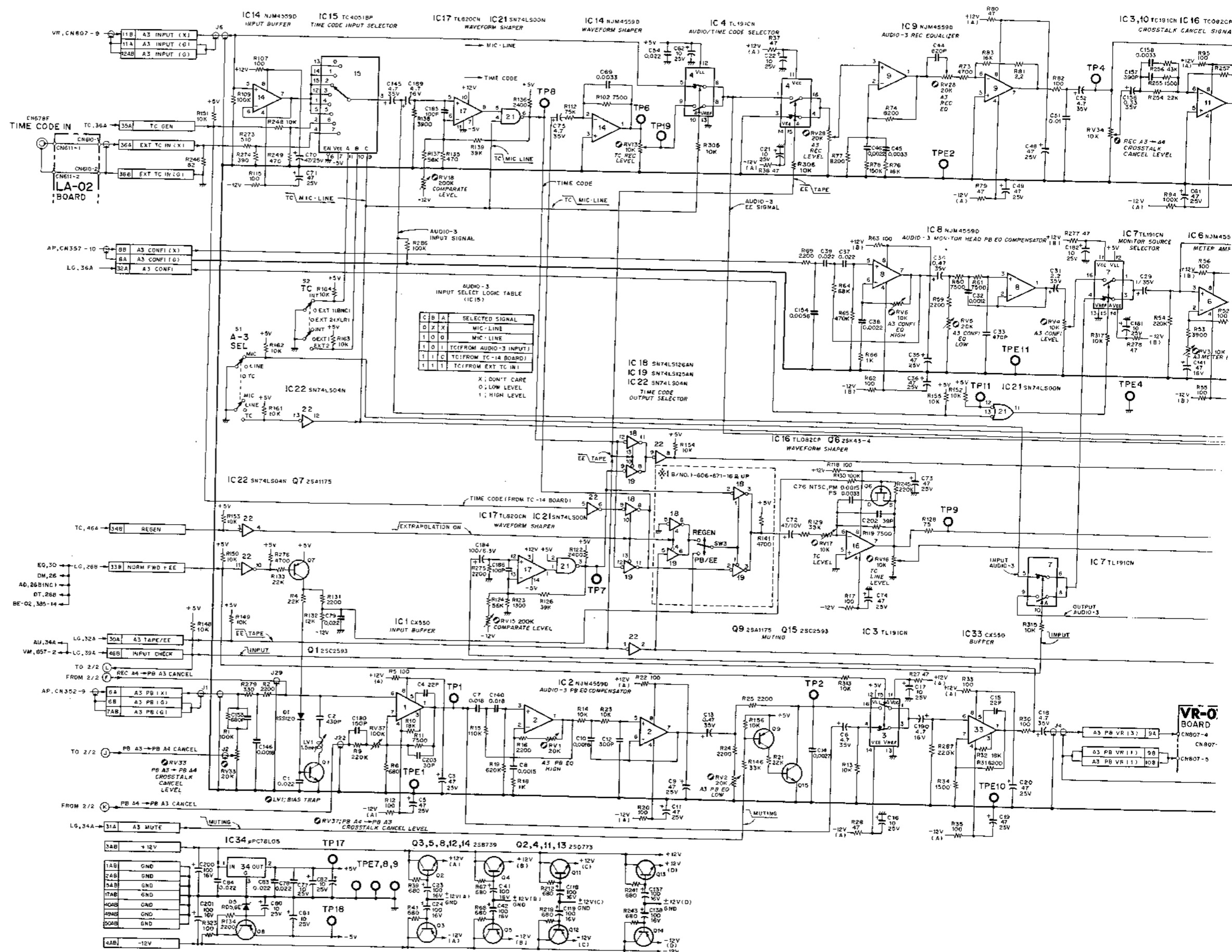
AE-03 BOARD; FOR 00/02 MODELS
Audio-3 REC EQ/PB Amplifier

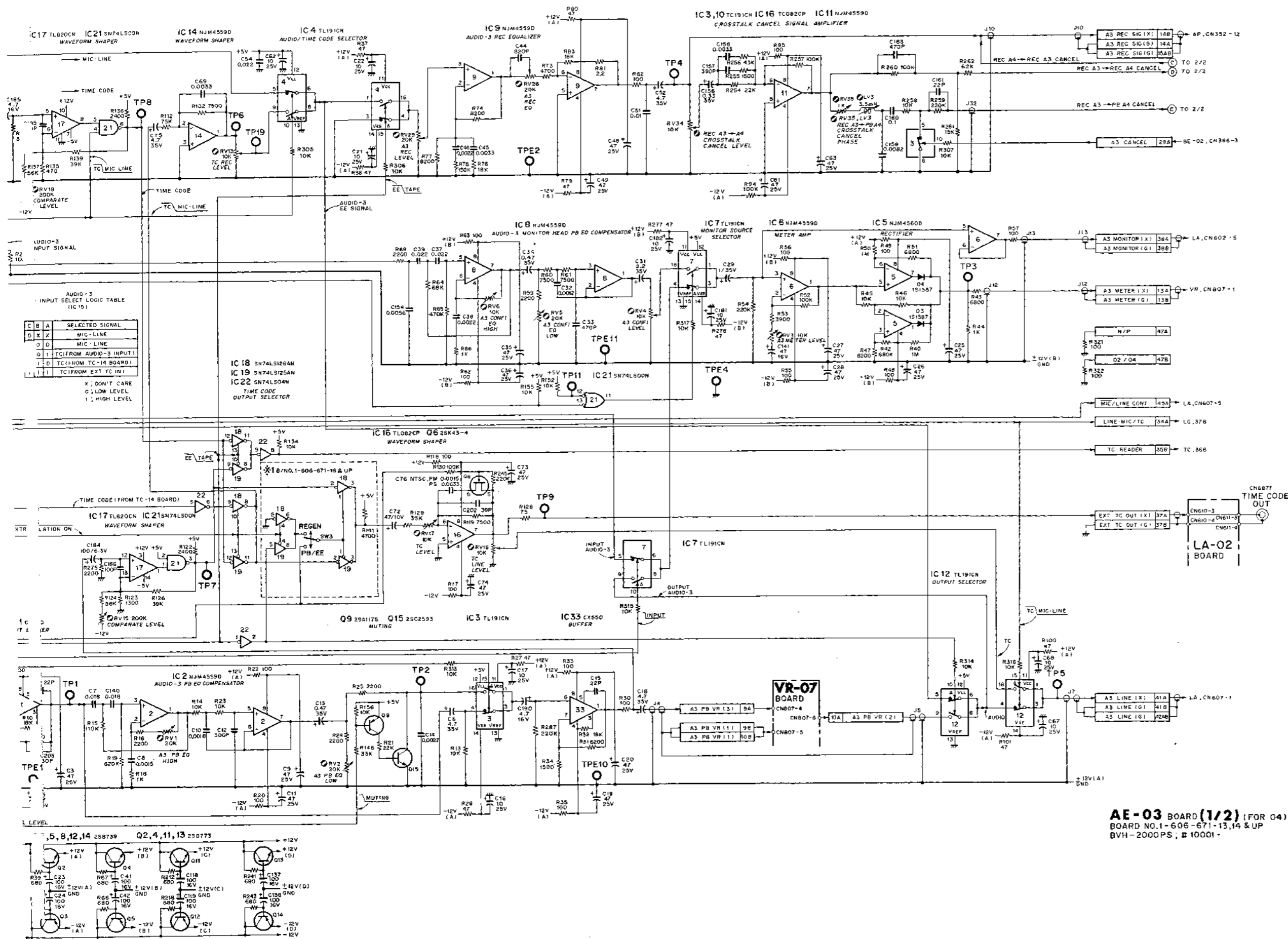




- AE-03 BOARD (FOR 00/02)**
 BOARD NO. 1-606-671-13 & UP
- BVH-2000(J); #10501-
 - BVH-2000(U/C); #10501-
 - BVH-2000PS; #10301-
 - BVH-2000PM; #10001-
- BVH-2500(J); #10001-
 BVH-2500(U/C); #10001-
 BVH-2500P; #10001-

AE-03 BOARD (1/2); FOR 04 MODEL
Audio-3 REC EQ/PB Amplifier





AUDIO-3 INPUT SELECT LOGIC TABLE (IC10)

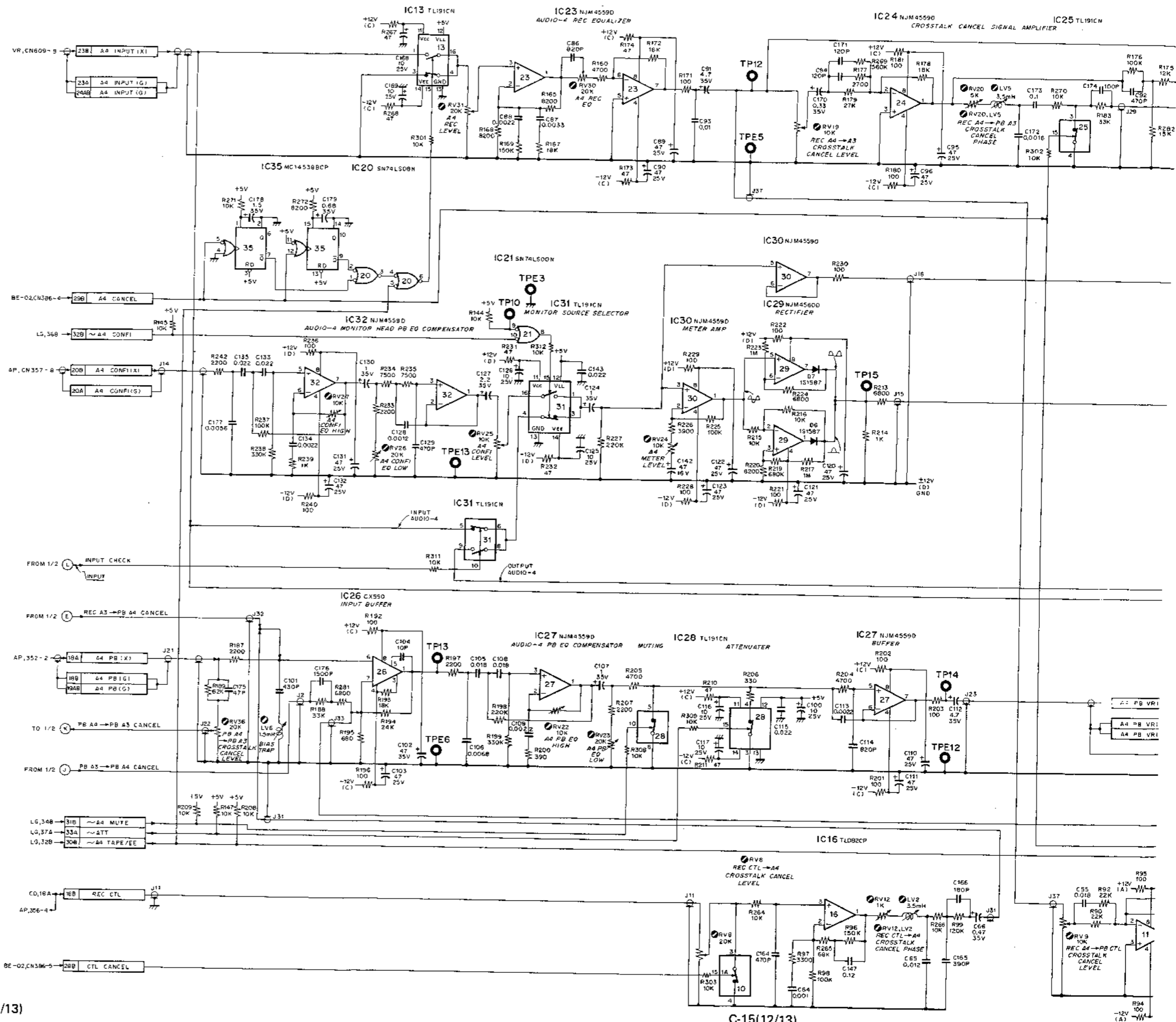
C	B	A	SELECTED SIGNAL
0	X	X	MIC-LINE
0	D	X	MIC-LINE
0	1	X	TC FROM AUDIO-3 INPUT
1	0	X	TC FROM TC-14 BOARD I
1	1	X	TC FROM EXT TC IN I

X: DON'T CARE
0: LOW LEVEL
1: HIGH LEVEL

AE-03 BOARD (1/2) (FOR 04)
BOARD NO. 1-606-671-13, 14 & UP
BVH-2000PS; # 10001-

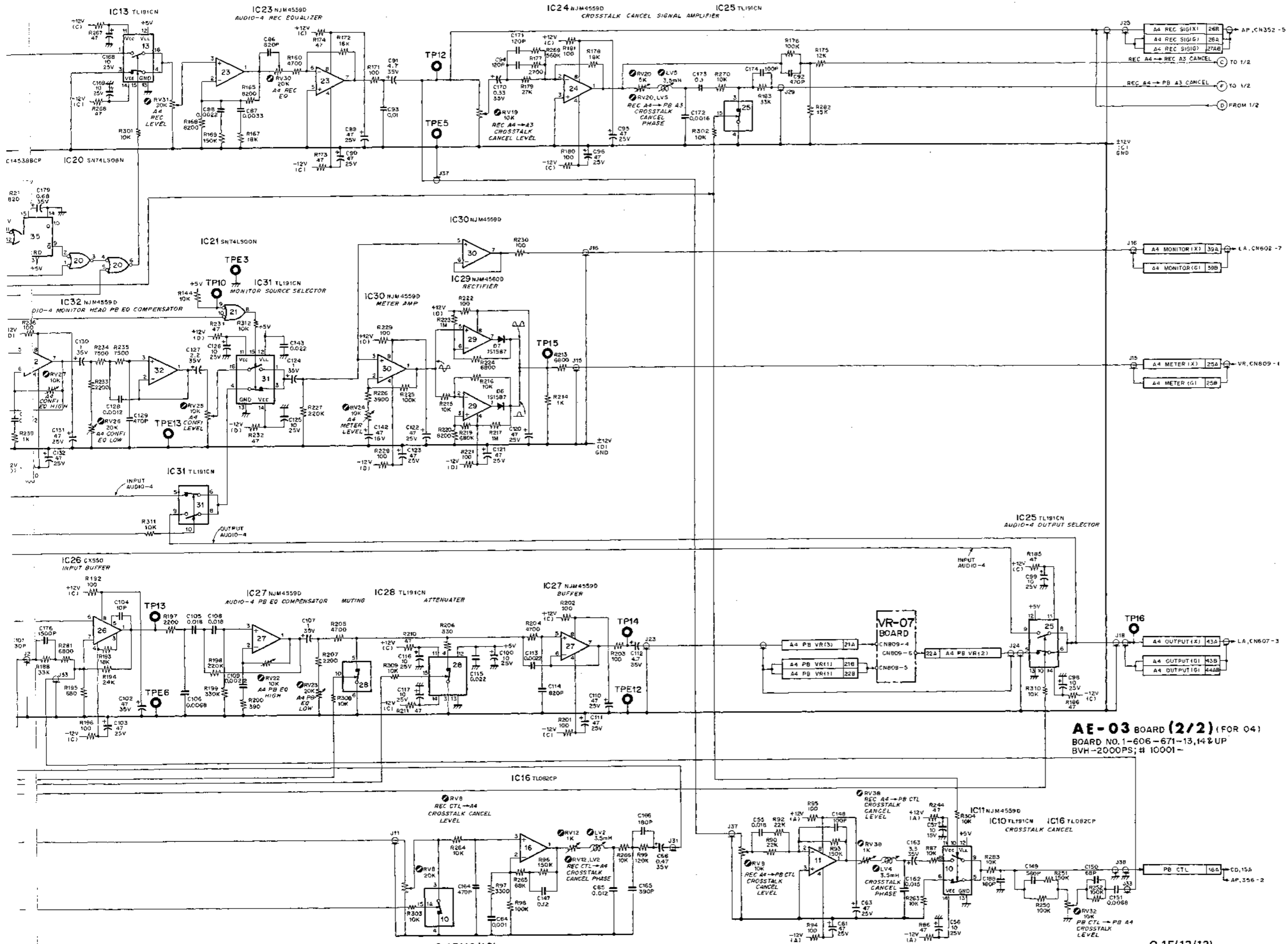
AE-03 BOARD (2/2); FOR 04 MODEL

Audio-4 REC EQ/PB Amplifier



C-15(11/13)

C-15(12/13)

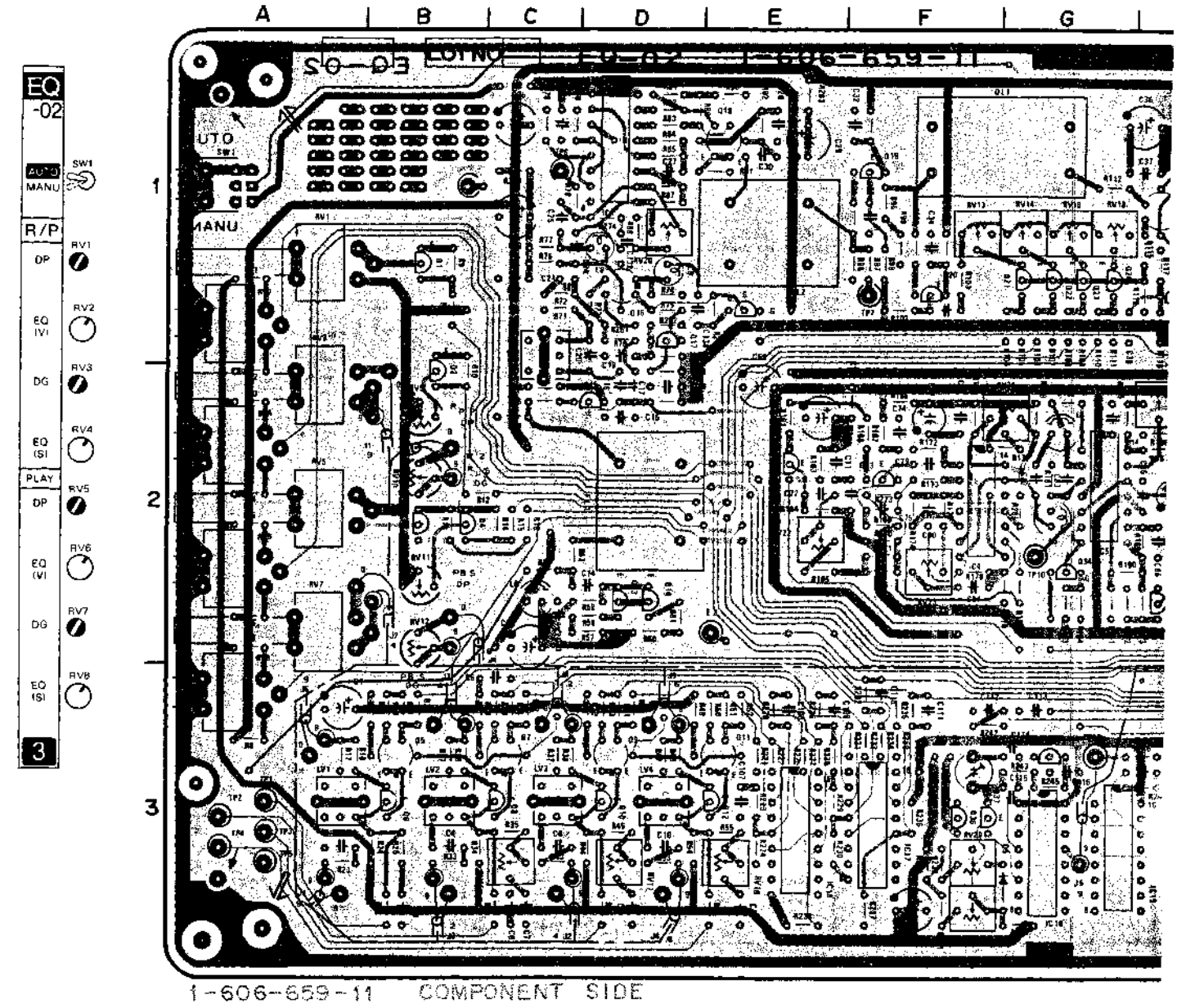


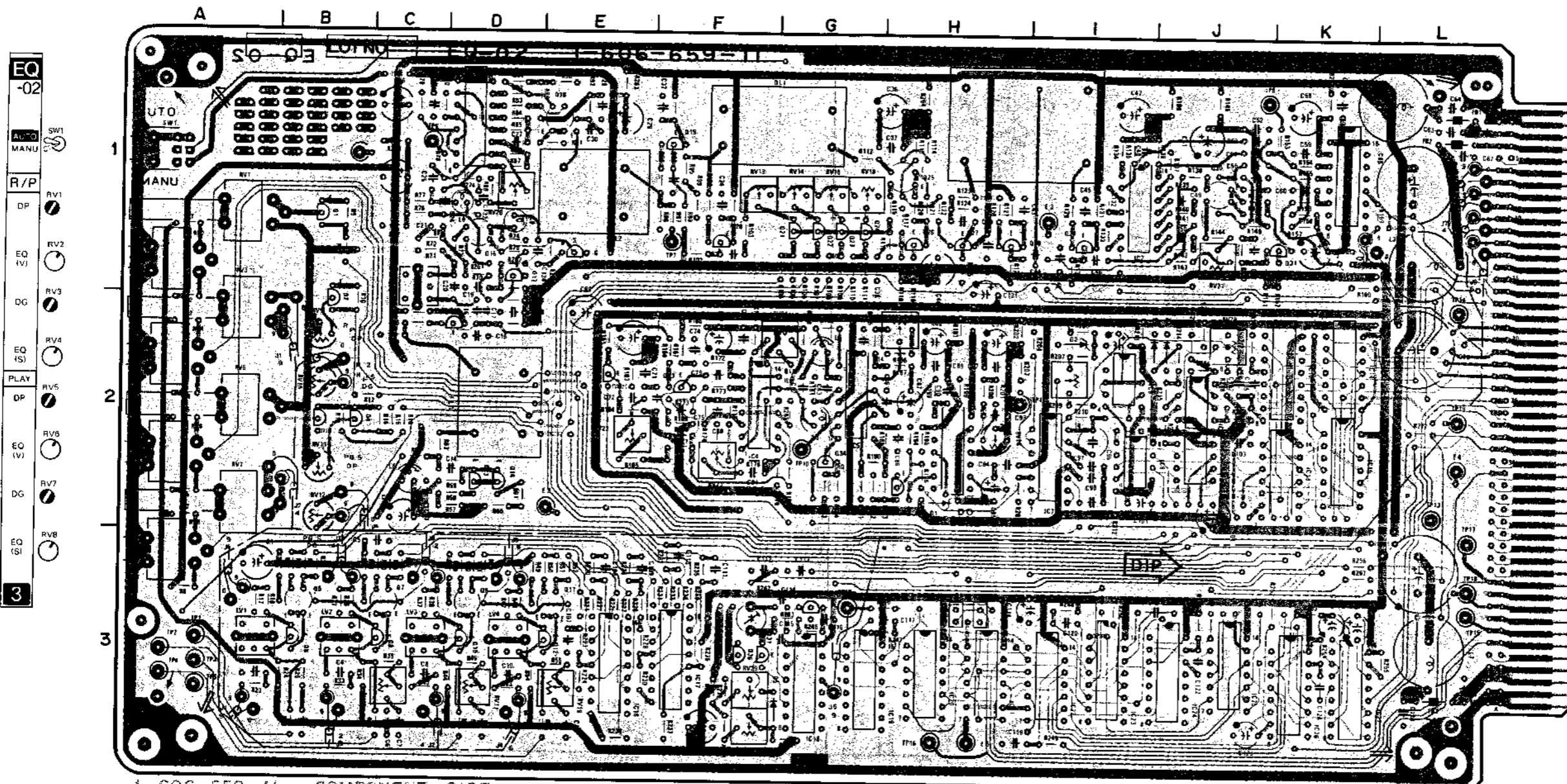
AE-03 BOARD (2/2) (FOR 04)
BOARD NO. 1-606-671-13,14 & UP
BVH-2000PS; # 10001-

C-15(12/13)

C-15(13/13)

EQ-02 BOARD (1-606-659-11)
Component Side





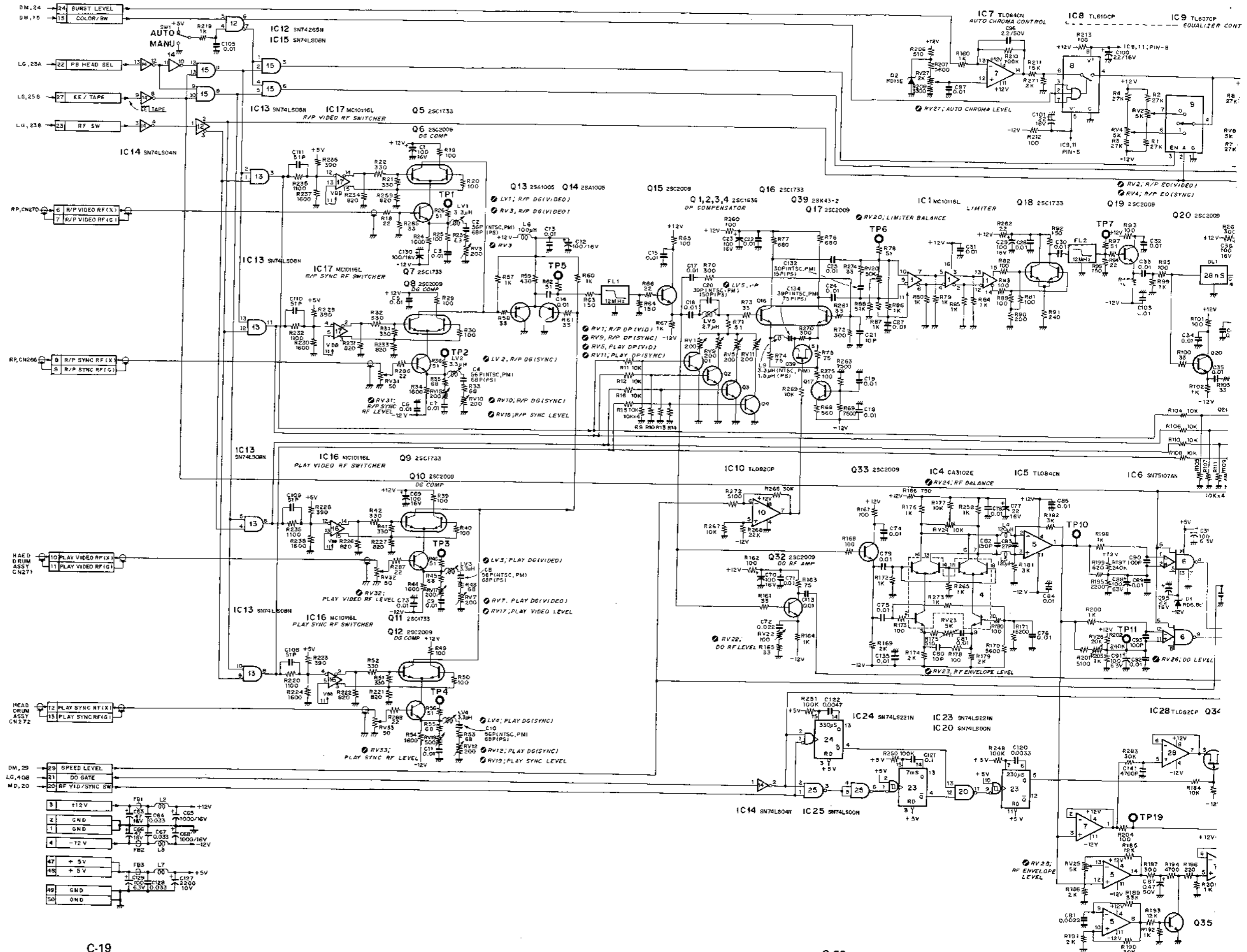
EQ-02 (1-606-659-11)

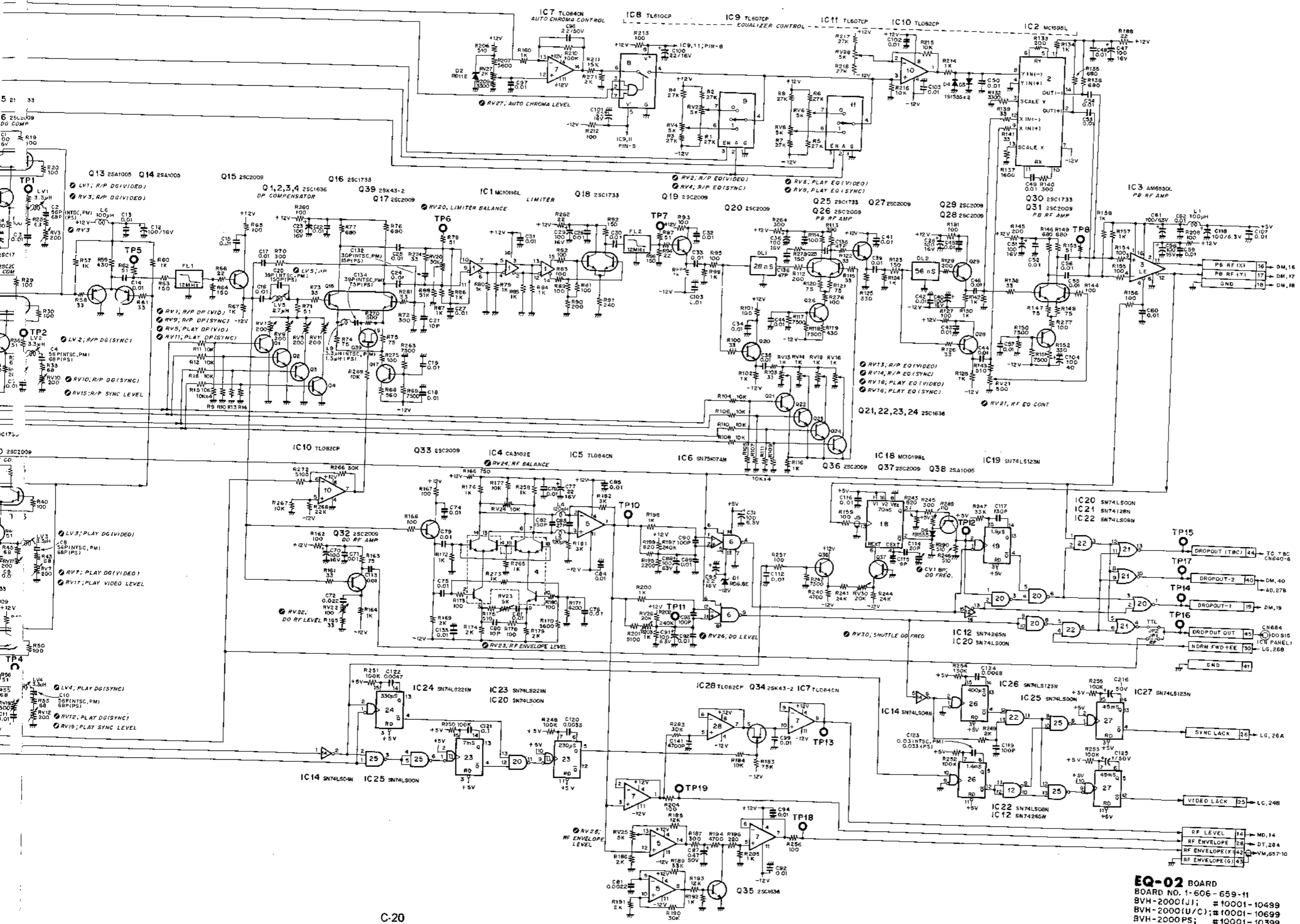
BVH-2000(J,U/C)	Q25	1H
BVH-2000PS	Q26	1H
BVH-2000PM	Q27	1H
	Q28	1H
	Q29	1I
	Q30	1J
	Q31	1K
	Q32	2E
	Q33	2F
	Q34	2G
	Q35	2H
	Q36	3F
	Q37	3F
	Q38	3G
	Q39	1E
CV1	3F	
D1	2H	
D2	2I	
D3	2J	
D4	2J	
DL1	1G	
DL2	1H	
IC1	1D	
IC2	1I	
IC3	1K	
IC4	2F	
IC5	2F	
IC6	2H	
IC7	2I	
IC8	2I	
IC9	2I	
IC10	2J	
IC11	2J	
IC12	2K	
IC13	2K	
IC14	2K	
IC15	2K	
IC16	3E	
IC17	3F	
IC18	3G	
IC19	3G	
IC20	3H	
IC21	3H	
IC22	3I	
IC23	3I	
IC24	3J	
IC25	3J	
IC26	3K	
IC27	3K	
IC28	1B	
JP1	3H	
JP2	3H	
LV1	3A	
LV2	3B	
LV3	3C	
LV4	3D	
LV5	1C	
	SW1	1A
TP1	3A	
TP2	3A	
TP3	3A	
TP4	3A	
TP5	3A	
TP6	1C	
TP7	1E	
TP8	1J	
TP9	2G	
TP10	2H	
TP11	3G	
TP12	2L	
TP13	2L	
TP14	2L	
TP15	3L	
TP16	3H	
TP17	2L	
TP18	3L	
TP19	2L	
TPE1	1B	
TPE2	2E	
TPE3	1I	
TPE4	2L	
TPE5	3H	

1-606-659-11 COMPONENT SIDE

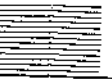
1-606-659-11

EQ-02 BOARD
Video/Sync PB Equalizer

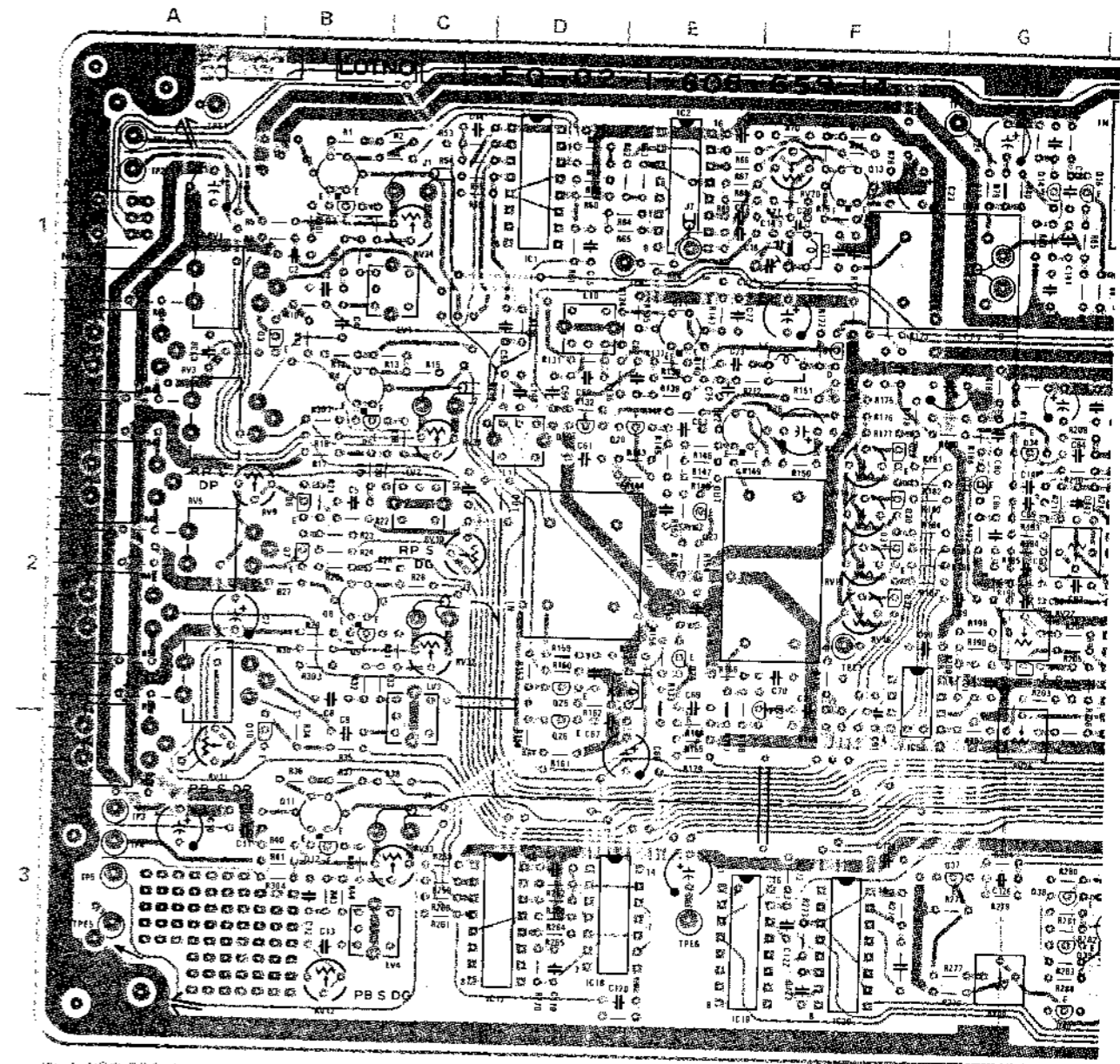
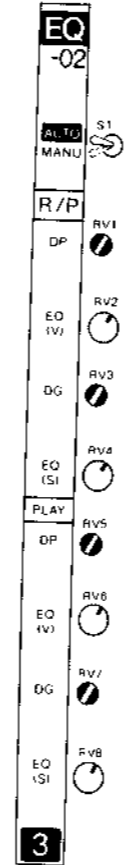




EQ-02 BOARD
 BOARD NO. 1-606-659-11
 BVH-2000(J); #10001-10499
 BVH-2000(U/C); #10001-10699
 BVH-2000(PS); #10001-10399
 BVH-2000(PM); #10001-10099

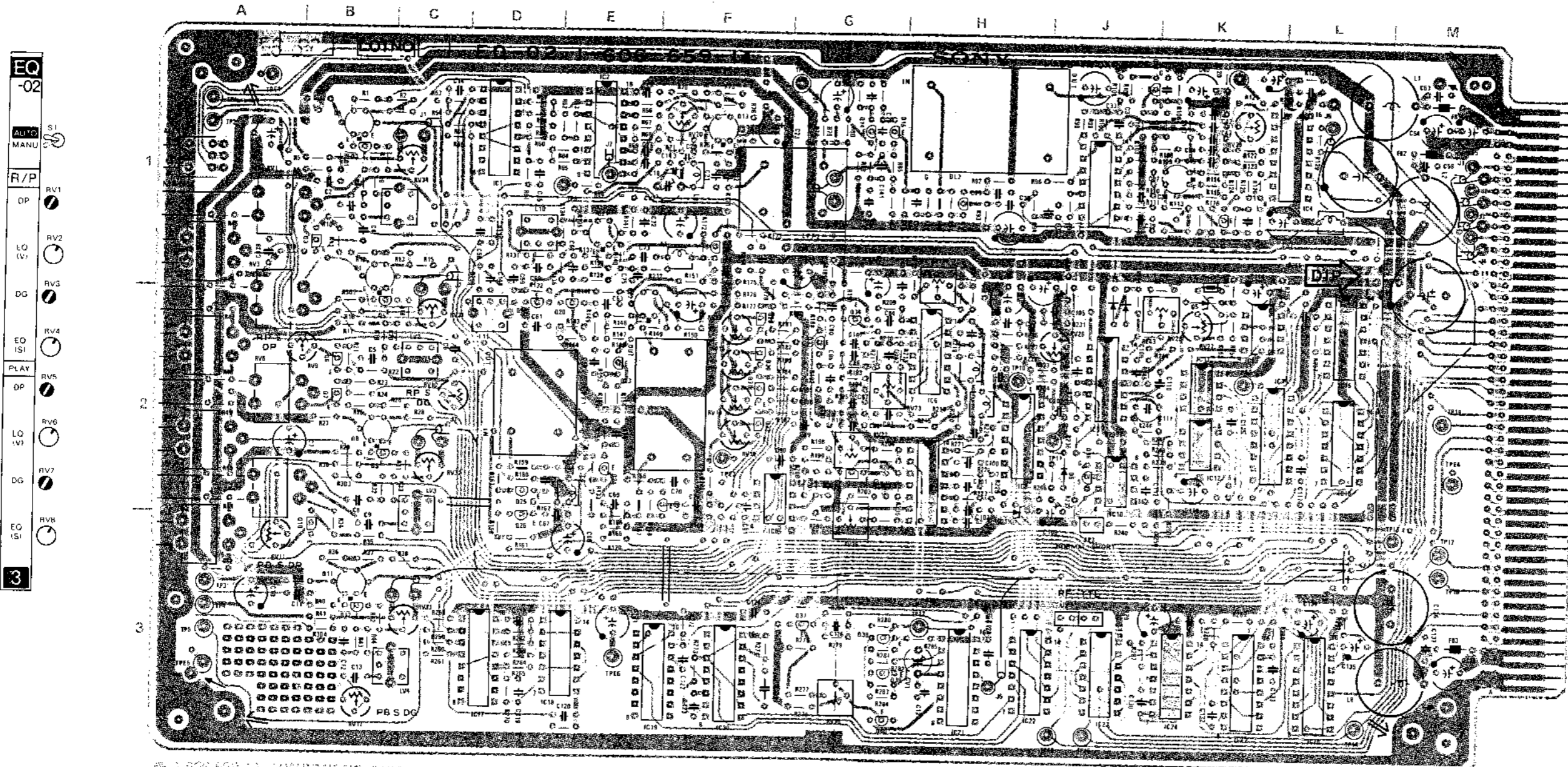


EQ-02 BOARD (1-606-659-14)
Component Side



1-606-659-14 COMPONENT SIDE

141



EQ-02 (1-606-659-14)

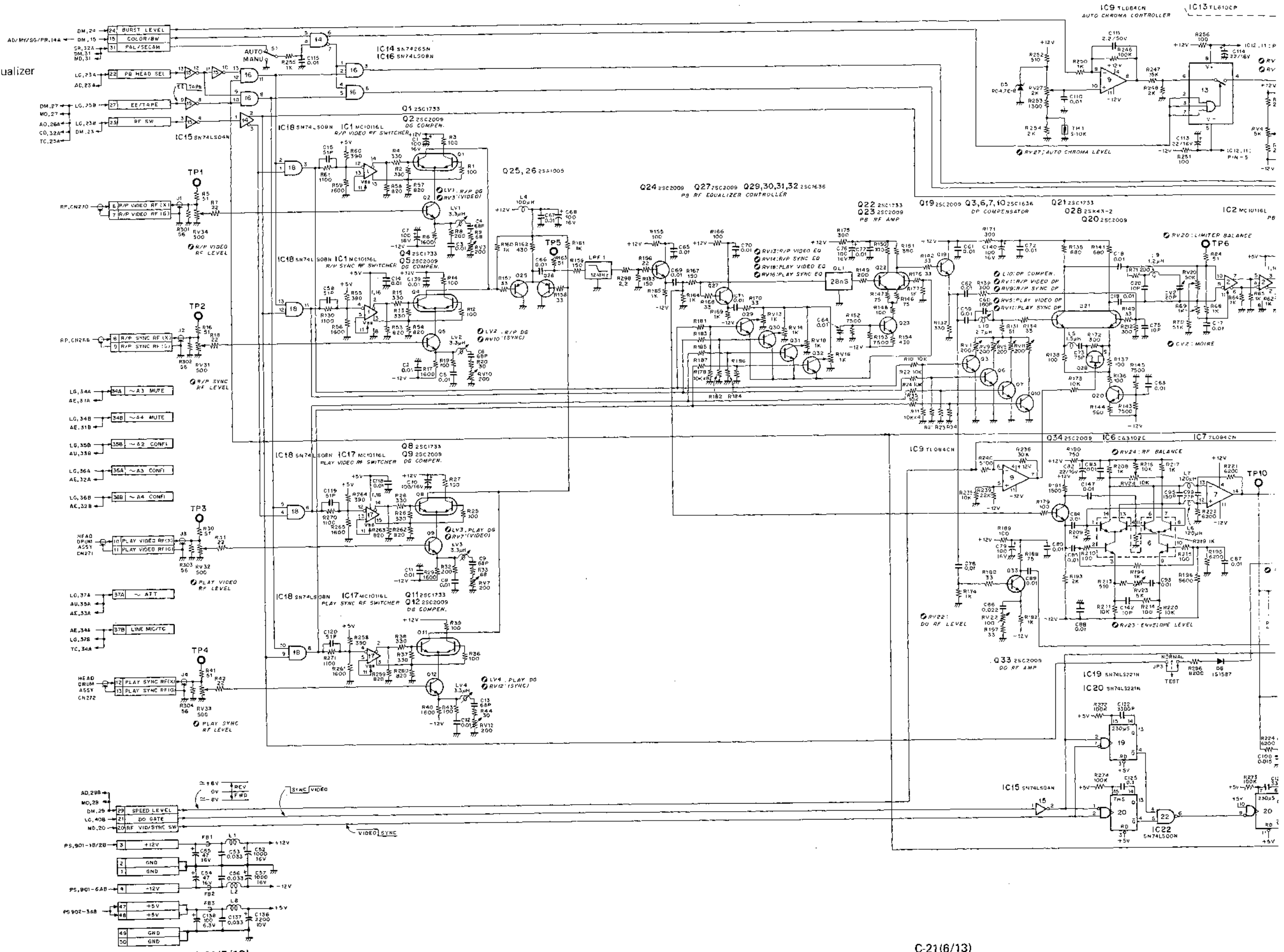
BVR-2000PS

CV1	3B	Q28	1F
CV2	1E	Q29	2F
		Q30	2F
D1	2B	Q31	2F
D2	2J	Q32	2F
D3	2J	Q33	2G
D5	2K	Q34	2G
D6	2J	Q35	2G
		Q36	2J
DL1	2F	Q37	3G
DL2	1H	Q38	3G
		Q39	3G
		Q40	3G
		Q41	1F
IC1	1D	RV1	1A
IC2	1E	RV2	1A
IC3	1J	RV3	2A
IC4	1L	RV4	2A
IC5	2F	RV5	2A
IC6	2H	RV6	2A
IC7	2H	RV7	2A
IC8	2H	RV8	2A
IC9	2J	RV9	2A
IC10	2J	RV10	2A
IC11	2K	RV11	2A
IC12	2K	RV12	2A
IC13	2K	RV13	2A
IC14	2L	RV14	2F
IC15	2L	RV15	2F
IC16	2L	RV16	2F
IC17	3D	RV17	2F
IC18	3D	RV18	2F
IC19	3E	RV19	2F
IC20	3F	RV20	2F
IC21	3H	RV21	2G
IC22	3H	RV22	2G
IC23	3J	RV23	2G
IC24	3K	RV24	2G
IC25	3K	RV25	2G
IC26	3L	RV26	2K
		RV27	2K
		RV28	2K
		RV29	2K
		RV30	3C
JP1	3J	RV31	2C
JP2	3J	RV32	2C
JP3	2J	RV33	3C
		RV34	1C
		RV35	1K
LV1	1C	S1	1A
LV2	2C		
LV3	2C		
LV4	3C		
O1	1B	TH1	1R
O2	1B		
O3	1B	TP1	1A
O4	1B	TP2	1A
O5	2B	TP3	3A
O6	2B	TP4	3A
O7	2B	TP5	3A
O8	2B	TP6	1D
O9	2B	TP7	1G
O10	3B	TP8	1K
O11	3B	TP9	2H
O12	3B	TP10	2H
O13	1P	TP11	2J
O14	1G	TP12	3H
O15	1G	TP13	3M
O16	1H	TP14	3L
O17	1J	TP15	3J
O18	1K	TP16	3J
O19	2D	TP17	3M
O20	2E	TP18	3M
O21	2E	TP19	2M
O22	2E	TPE1	1A
O23	2E	TPE2	2K
O24	2E	TPE3	2F
O25	2D	TPE4	3K
O26	2D	TPE5	3A
O27	2E	TPE6	3E

1-606-659-14 SOLDER SIDE

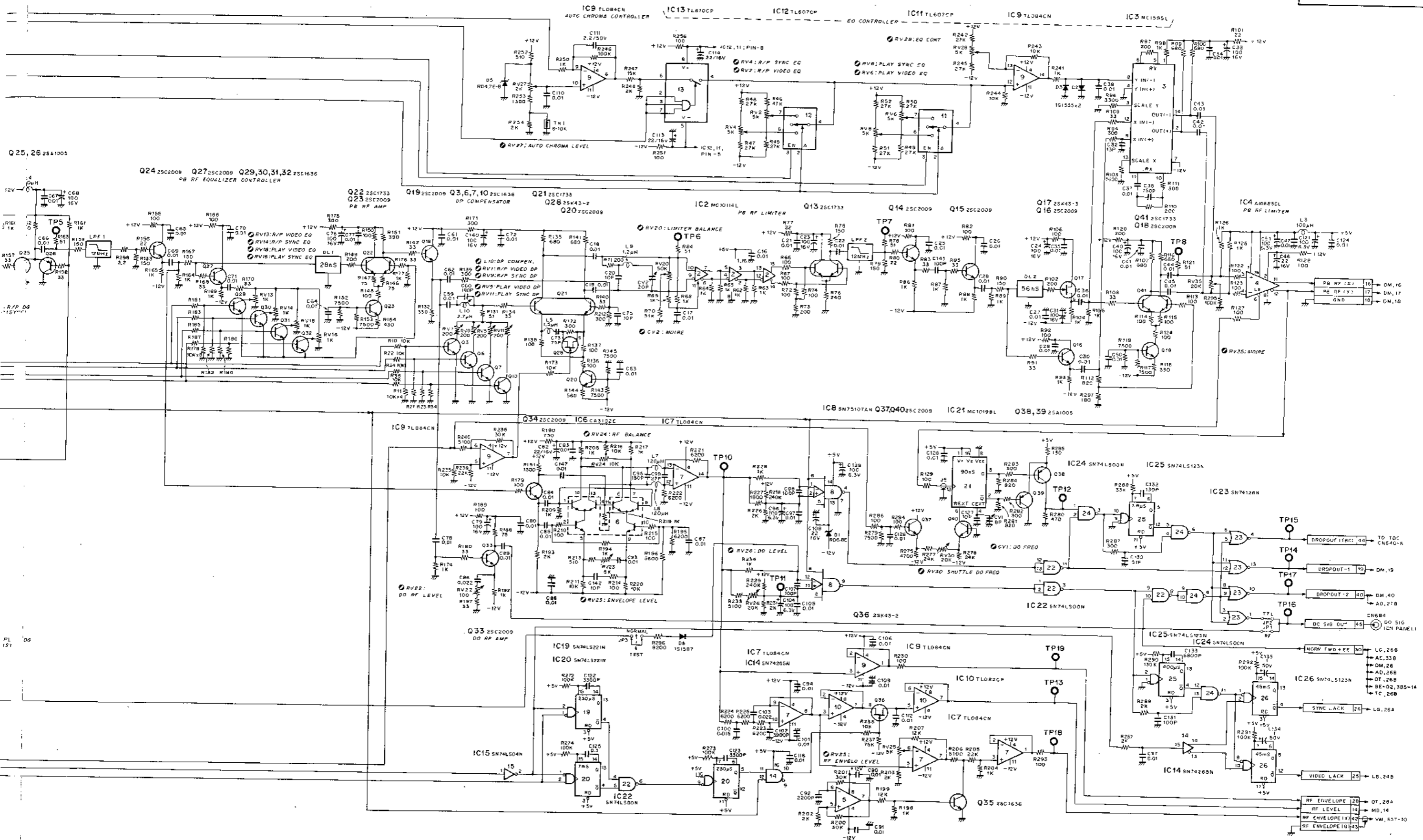
1-606-659-14 SOLDER SIDE

EQ-02 BOARD
Video/Sync PB Equalizer



C-21(5/13)

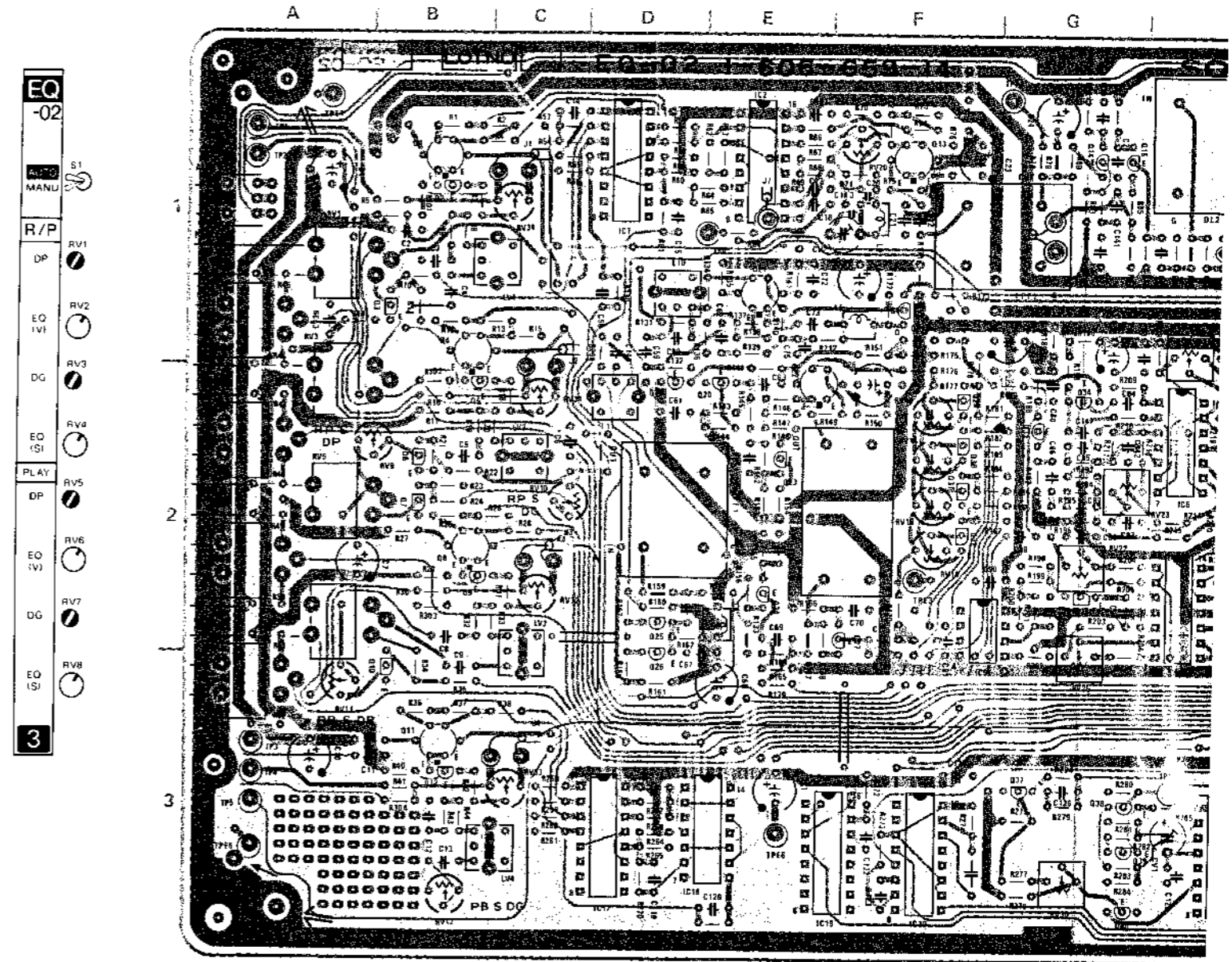
C-21(6/13)



EQ-02 BOARD
BOARD NO. 1-606-659-12,13,14
BVH-2000PS(AEP); #10401-12299

EQ-02 BOARD (1-606-659-14)

Component Side



1-606-659-14 COMPONENT SIDE

SW-81 BOARD (1-612-751-11)
Solder Side

For PS

1-612-751-11
SOLDER SIDE

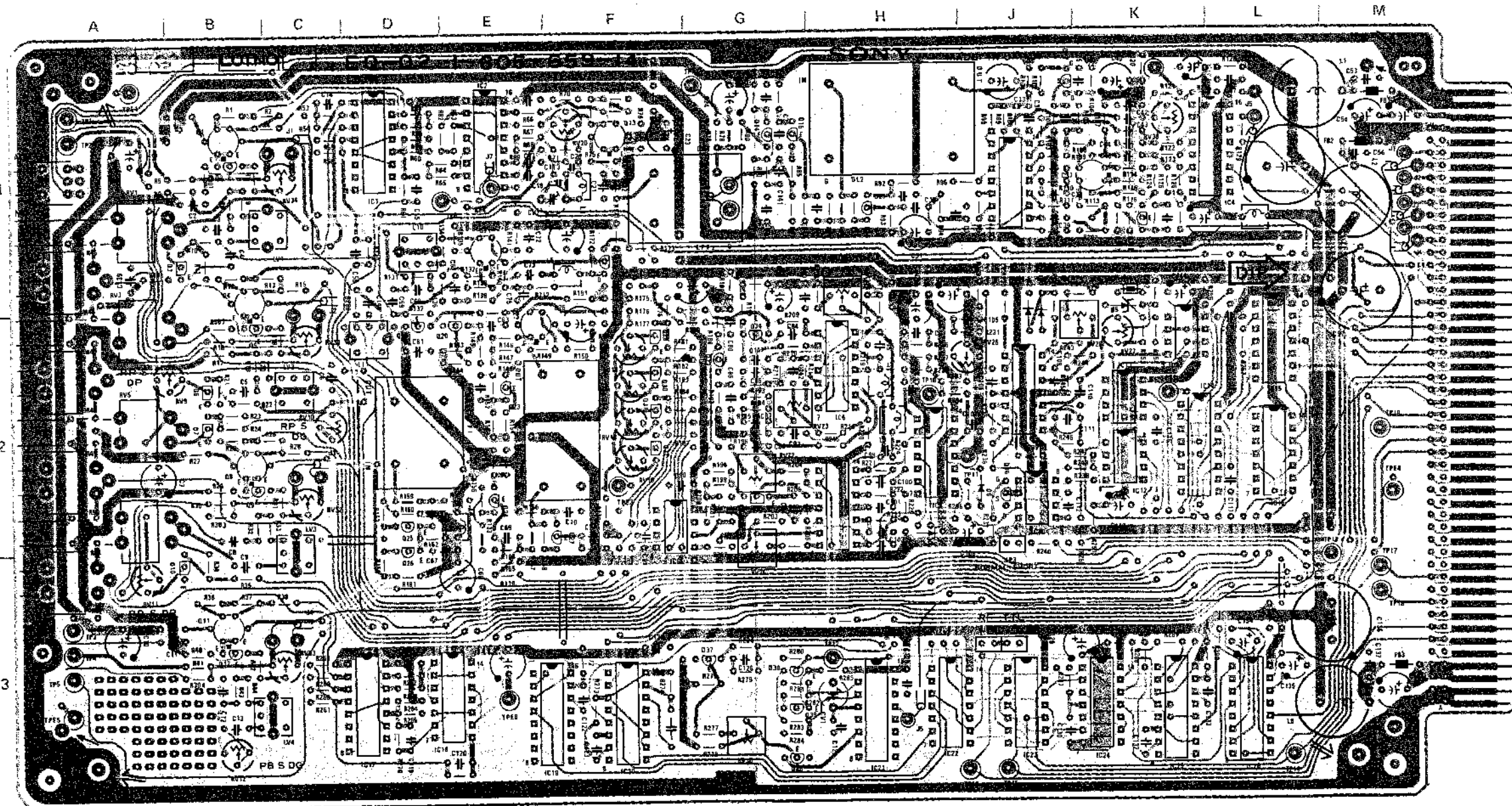
2000(J); #11701 - 1-606-659-14
 2000(U/C); #11801 -
 2000PS; #22301 -
 2000PM; #20201 -
 2500(J); #10001 -
 2500(U/C); #10001 -

CARD RACK EQ-02

EQ-02 CARD RACK

1-606-659-14

2000(J); #11701 -
 2000(U/C); #11801 -
 2000PS; #22301 -
 2000PM; #20201 -
 2500(J); #10001 -
 2500(U/C); #10001 -



1-606-659-14 COMPONENT SIDE

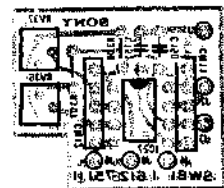
1-606-659-14 SOLDER SIDE

EQ-02 (1-606-659-14 & UP)

BVH-2000 (J, U/C)
 BVH-2000PS
 BVH-2000PM
 BVH-2500 (J, U/C)

CV1 3B	Q30 2F
(NTSC, PM)	Q31 2F
CV2 1E	Q32 2F
	Q33 2G
	Q34 2G
	Q35 2G
D1 2E	Q36 2J
D2 2J	Q37 3G
D3 2J	Q38 3G
D5 2K	Q39 3G
D6 2J	Q40 3G
DL1 2F	Q41 1K
DL2 1E	
IC1 1D	RV1 1A
IC2 1D	RV2 1A
IC3 1J	RV3 2A
IC4 1L	RV4 2A
IC5 2F	RV5 2A
IC6 2E	RV6 2A
IC7 2E	RV7 2A
IC8 2E	RV8 3A
IC9 2J	RV9 2A
IC10 2J	RV10 2C
IC11 2K	RV11 3A
IC12 2K	RV12 3B
IC13 2K	RV13 2F
IC14 2L	RV14 2F
IC15 2L	RV15 2F
IC16 2L	RV16 2F
IC17 3D	RV17 2G
IC18 3D	RV18 2G
IC19 3E	RV19 2G
IC20 3F	RV20 2G
IC21 3H	RV21 2G
IC22 3H	RV22 2K
IC23 3J	RV23 2K
IC24 3K	RV24 2K
IC25 3K	RV25 3G
IC26 3L	RV26 3G
	RV27 2C
	RV28 2C
	RV29 1C
	RV30 1C
	RV31 1C
	RV32 1C
	RV33 1C
	RV34 1C
	RV35 1K
(SM-81 BOARD)	
IC27 3B	
JF1 3J	(SM-81 BOARD)
JF2 3J	RV36 3A
JF3 2J	RV37 3A
LV1 1C	S1 1A
LV2 2C	
LV3 2C	TE1 1K
LV4 3C	
	TP1 1A
Q1 1B	TP2 1A
Q2 1B	TP3 3A
Q3 1B	TP4 3A
Q4 1B	TP5 3A
Q5 2B	
Q6 2B	(NTSC, PM)
Q7 2B	TP6 1D
Q8 2B	
Q9 2B	TP8 1K
Q10 3B	TP10 2E
Q11 3B	TP11 2J
Q12 3B	TP12 3R
Q15 1G	TP13 3M
Q16 1B	TP14 3L
Q17 1J	TP15 3J
Q18 1K	TP16 3J
Q19 2D	TP17 3M
Q20 2E	TP18 3M
Q21 1E	TP19 2M
Q22 2E	
Q23 2E	TPE1 1A
Q24 2E	TPE2 2K
Q25 2D	TPE3 2F
Q26 2D	TPE4 2M
Q27 2E	TPE5 3A
Q28 1F	TPE6 3E
Q29 2F	

12-751-11



1-612-751-11 SOLDER SIDE

C-21(9/13)

C-21(10/13)

C-21(10/13)

C-21(9/13)

C-21(8/13)

C-21(7/13)

C-21(6/13)

C-21(5/13)

C-21(4/13)

C-21(3/13)

C-21(2/13)

C-21(1/13)

C-21(0/13)

C-21(10/13)

2500(J); #10001 -
2500(U/C); #10001 -

2000(J); #11701 -
2000(U/C); #11801 -
2000PS; #22301 -
2000PM; #20201 -

1-606-659-14 & up

CARD RACK EQ-02

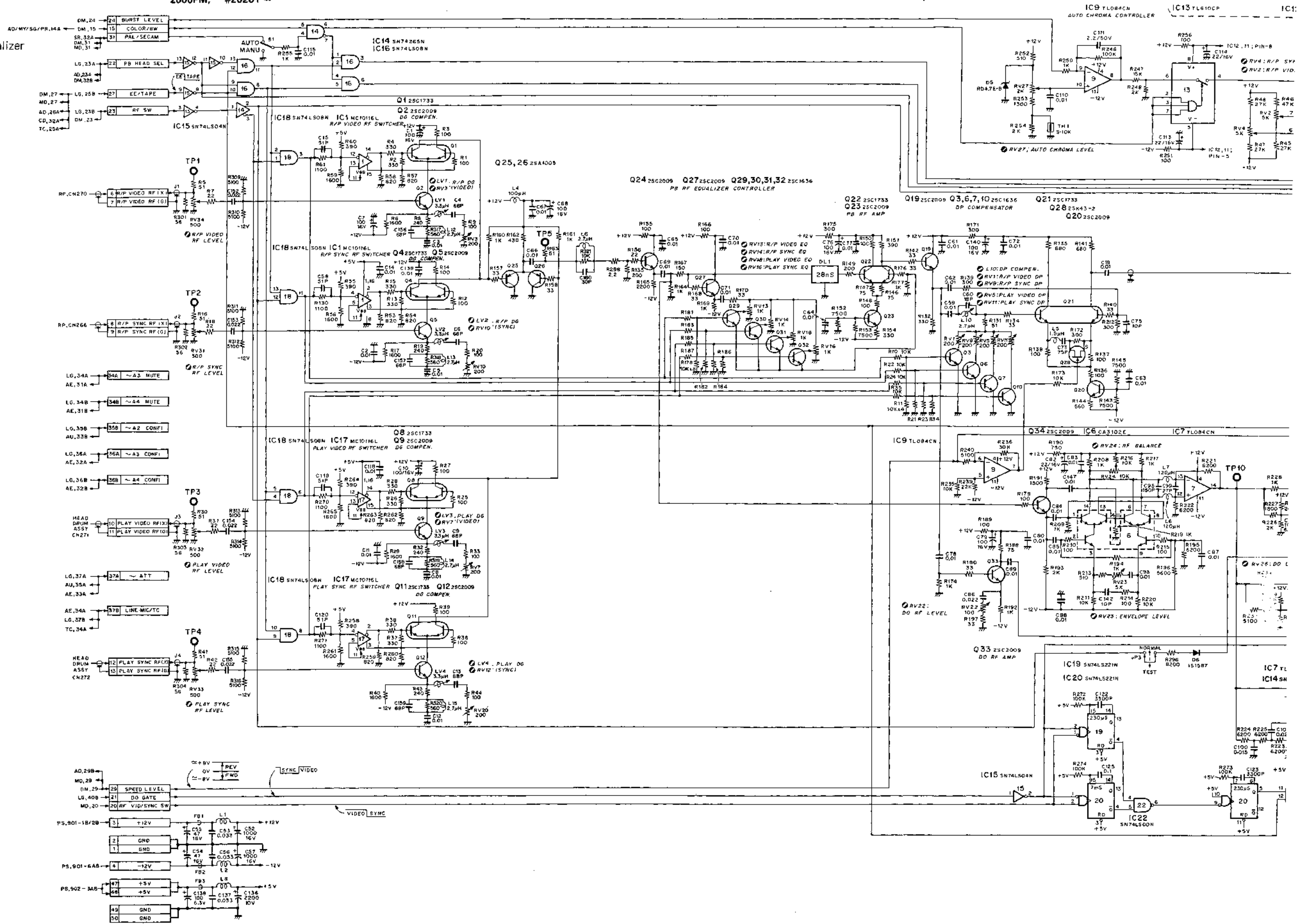
EQ-02 CARD RACK

1-606-659-14 & up

2000(J); #11701 -
2000(U/C); #11801 -
2000PS; #22301 -
2000PM; #20201 -

2500(J); #10001 -
2500(U/C); #10001 -

EQ-02 BOARD
Video/Sync PB Equalizer

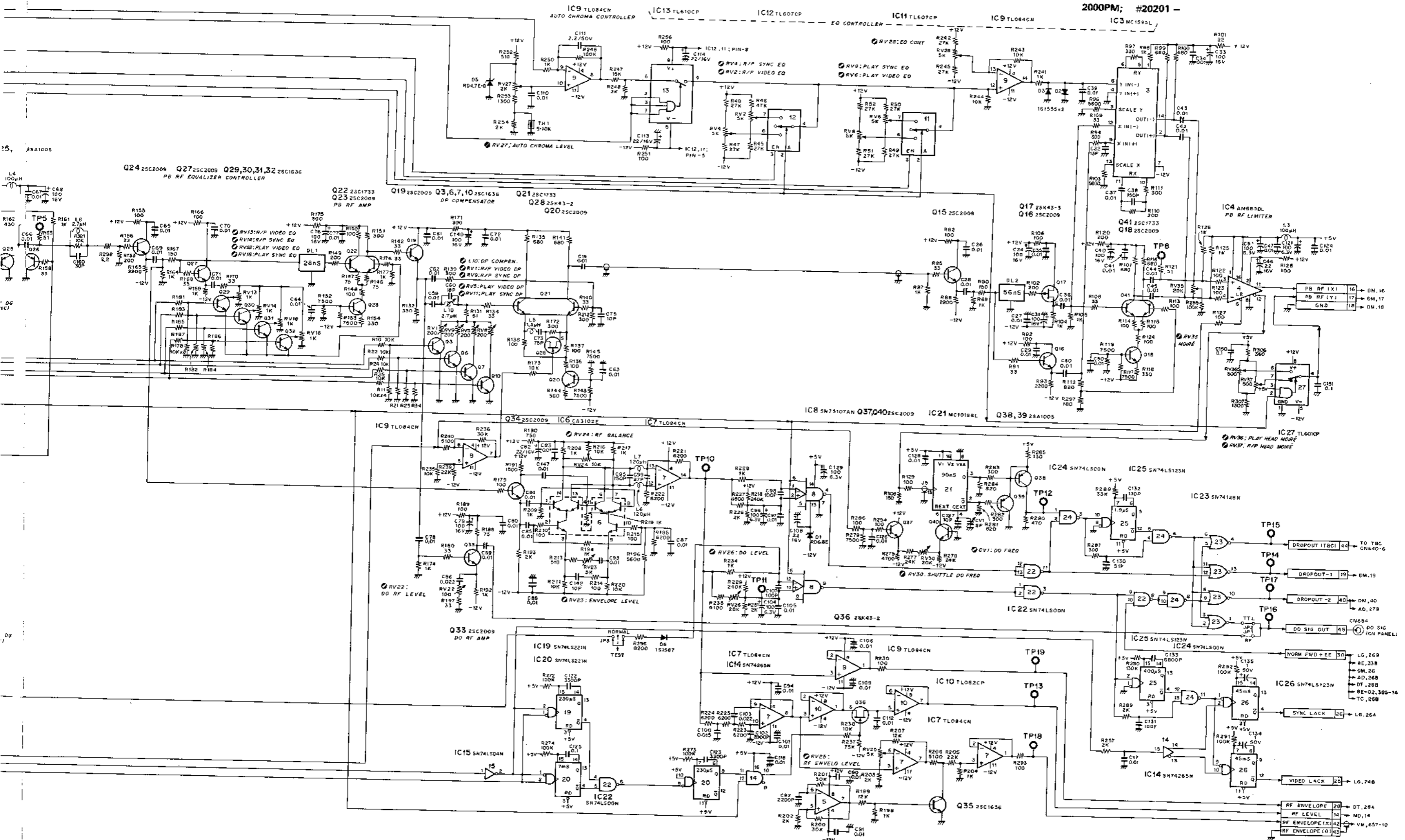


C-21(11/13)

C-21(12/13)

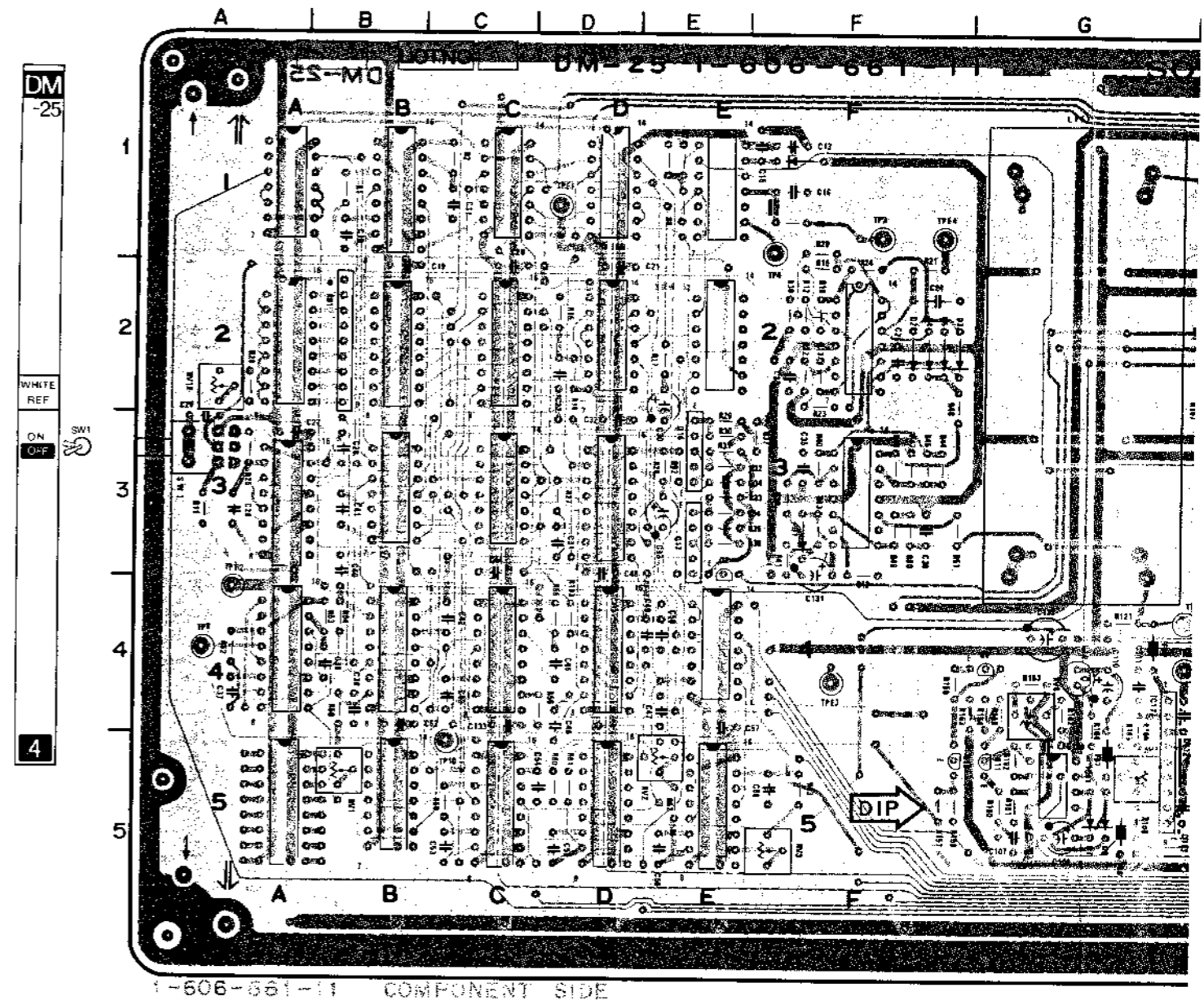
BVH-2000(J, U/C) C-21(11/13) C-21(12/13) C-21(13/13)

BVH-2500 C-19 C-20 C-21



EQ-02 BOARD
 BOARD NO. 1-606-659-14 & UP
 BVH-2000PS(AEP); #22301 -

DM-25 BOARD (1-606-661-11)
Component Side



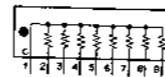
DM-25

WHITE REF

ON OFF

4

RB1



DM-25

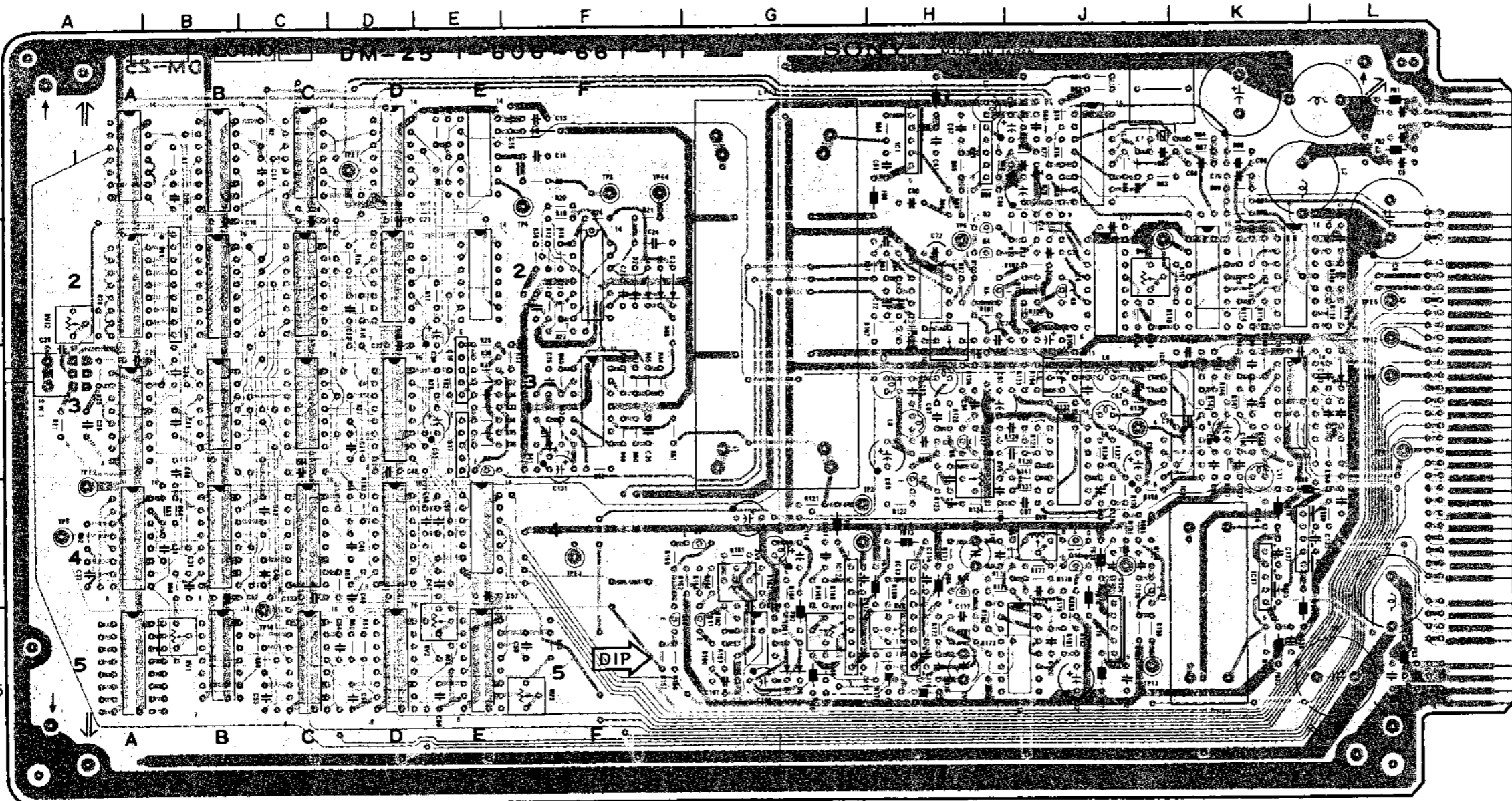
WHITE REF

ON OFF SW1

4

DM-25 (1-606-661-11)

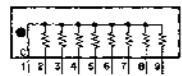
8WH-2000(J,U/C)	01	4J
8WH-2000PS	02	3E
	03	2H
	04	2H
	05	2H
	06	2J
	07	4H
	08	3H
	09	4G
	10	5F
	11	5G
	12	4H
	13	4J
	14	4J
	15	1H
	16	3E
	17	3E
IC1	1H	
IC1A		
IC1B		RB1 2B
IC1C		
IC1D		RV1 5B
IC1E		RV2 5E
IC2	1J	RV3 5F
IC2B		RV4 2J
IC2C		RV5 4H
IC2D		RV6 4G
IC2E		RV7 5G
IC2F		RV8 5H
IC3	2H	RV9 4J
IC3A		RV10 3H
IC3B		RV11 3J
IC3C		RV12 2A
IC3D		
IC3F		(PS)
IC4	2J	RV13 5A
IC4A		
IC4B		SW1 5A
IC4C		SW2A
IC4D		
IC4E		
IC5	2K	TP1 2J
IC5B		TP2 4G
IC5C		TP3 1F
IC5D		TP4 1F
IC5E		TP5 2H
IC5F		TP6 4J
IC6	2K	TP7 3J
IC7	3J	TP8 3L
IC8	3K	TP9 4A
IC9	3K	TP10 5G
IC10	3K	TP11 3L
IC11	5G	TP12 3L
IC12	5G	TP13 5J
IC13	5H	
IC14	5J	TP21 1D
IC15	5J	TP22 4A
IC16	4K	TP3 4F
IC17	4K	TP4 1F
		TP5 4G
		TP6 2L



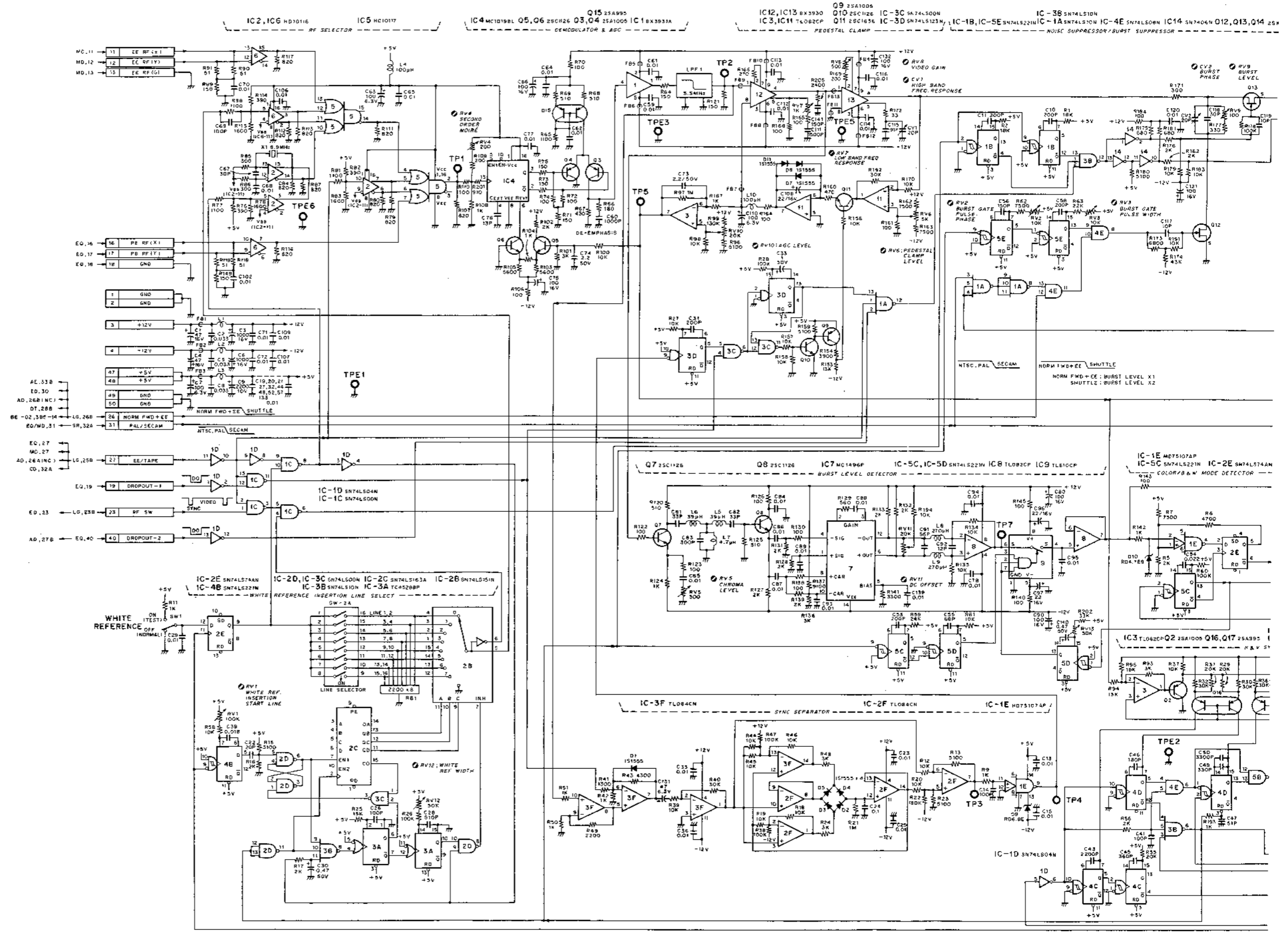
1-606-661-11 COMPONENT SIDE

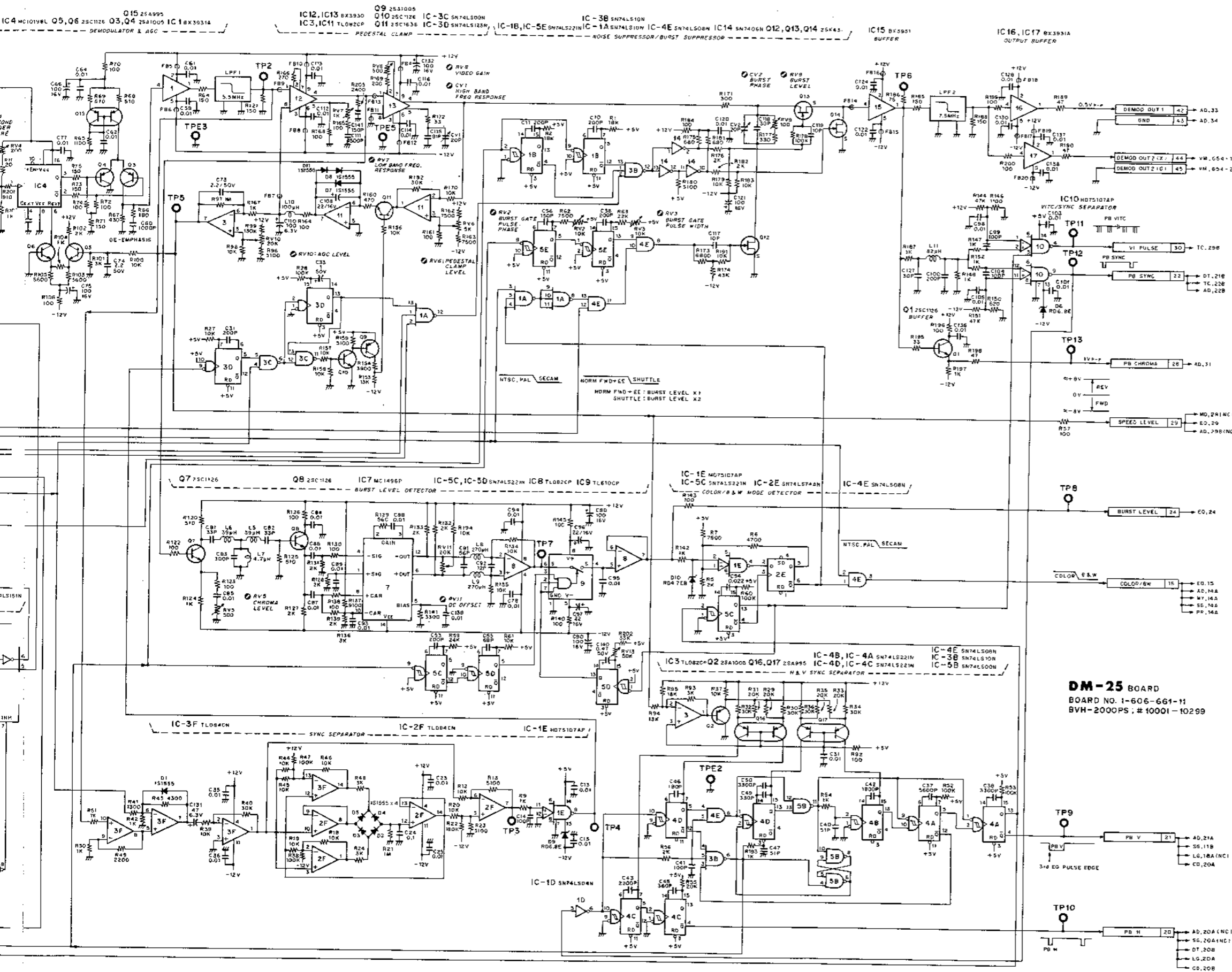
11-100-303-1

RB1

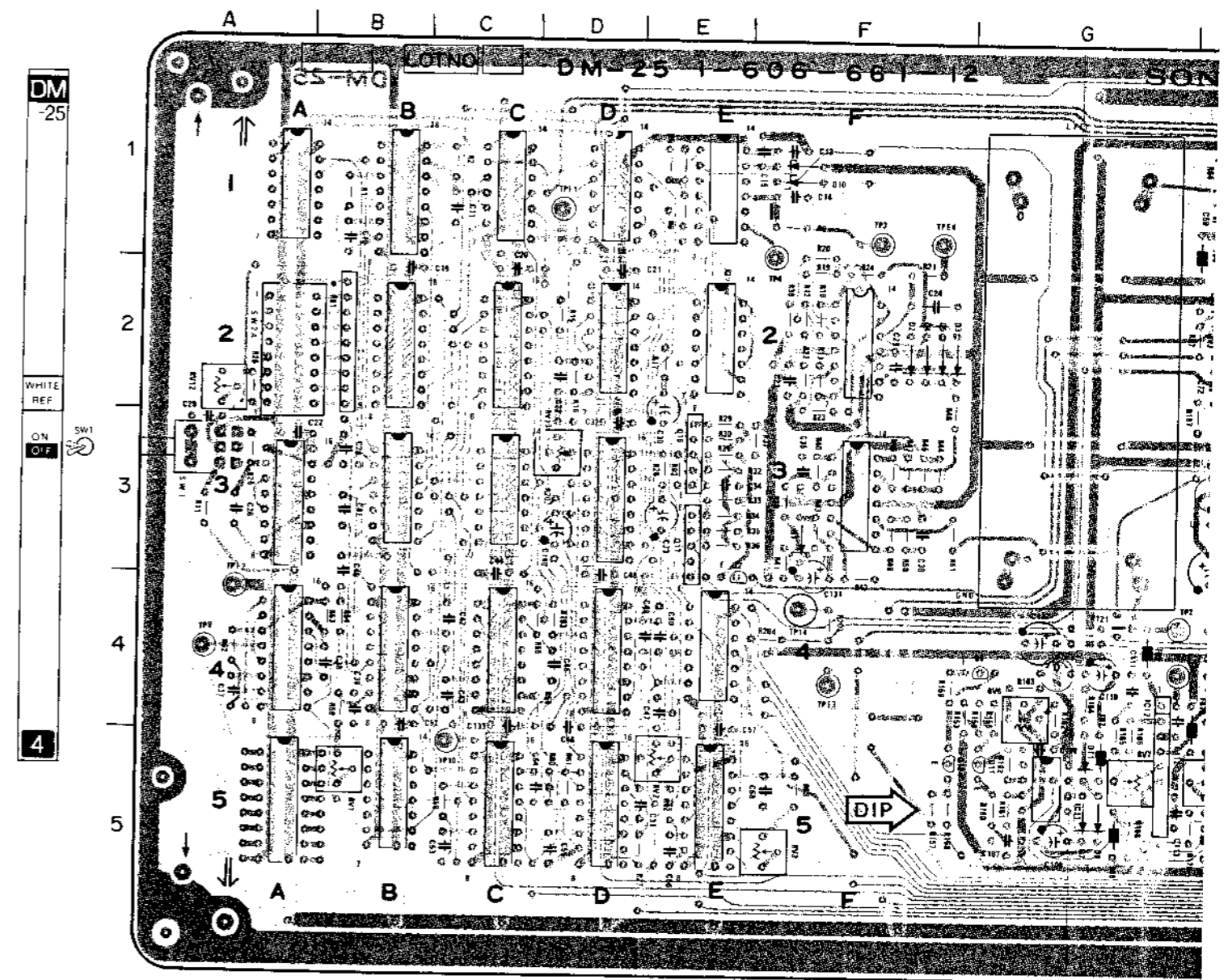


DM-25 BOARD
Video Demodulator

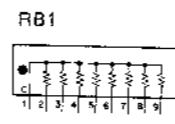




DM-25 BOARD (1-606-661-12)
Component Side



1-606-661-12 COMPONENT SIDE

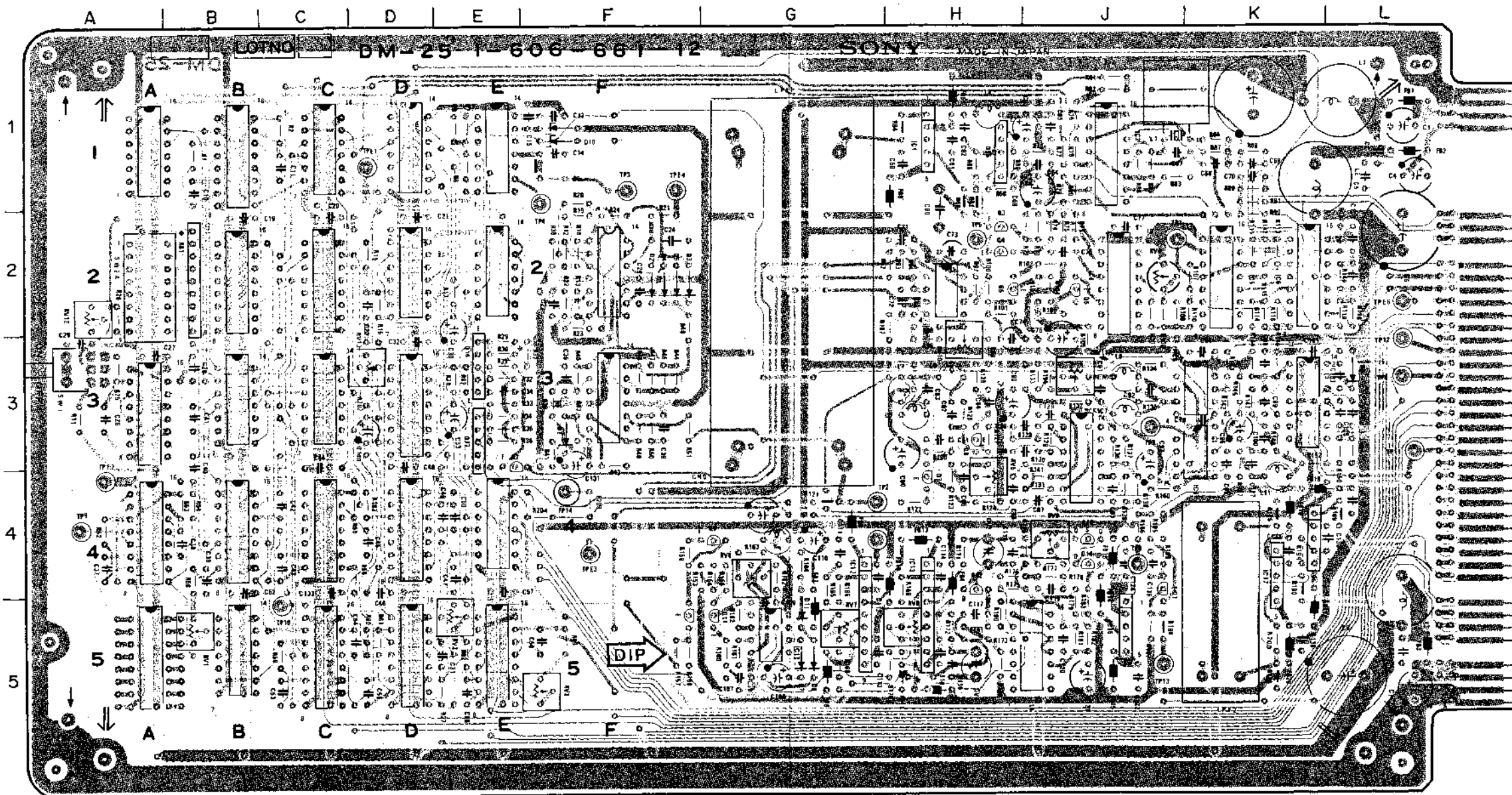


DM-25

WHITE REF

ON OFF

4



DM-25 (1-606-661-12)

BVR-2000(J,D/C)

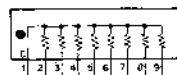
BVR-2000PS

CV1	5H	Q1	4J
CV2	4H	Q2	3E
		Q3	2E
D1	3F	Q4	2E
D2	2F	Q5	2H
D3	2F	Q6	2J
D4	2F	Q7	4E
D5	2F	Q8	3E
D6	3L	Q9	4G
D7	5G	Q10	5F
D8	5G	Q11	5G
D9	1F	Q12	4E
D10	1F	Q13	4J
D11	5G	Q14	4J
		Q15	1E
		Q16	3E
		Q17	3E
IC1	1H		
IC1A		RB1	2E
IC1B			
IC1C			
IC1D			
IC1E			
		RV1	5E
		RV2	5E
		RV3	5F
		RV4	2J
		RV5	4E
		RV6	4G
		RV7	5G
		RV8	5E
		RV9	4J
		RV10	3E
		RV11	3J
		RV12	2A
		RV13	3D
IC2	1J		
IC2B			
IC2C			
IC2D			
IC2E			
IC2F			
IC3	2H		
IC3A			
IC3B			
IC3C			
IC3D			
IC3E			
IC3F			
IC4	2J	SW1	3A
IC4A		SW2A	
IC4B			
IC4C		TP1	2J
IC4D		TP2	4G
IC4E		TP3	1F
IC5		TP4	1E
IC5B		TP5	2E
IC5C		TP6	4J
IC5D		TP7	3J
IC5E		TP8	3L
IC6	2K	TP9	4A
IC7	3J	TP10	5C
IC8	3K	TP11	3L
IC9	3K	TP12	3L
IC10	3K	TP13	5J
IC11	5G	TP14	4F
IC12	5G		
IC13	5H	TPE1	1D
IC14	5J	TPE2	4A
IC15	5J	TPE3	4F
IC16	4K	TPE4	1F
IC17	4K	TPE5	4G
		TPE6	2L
		X1	1J

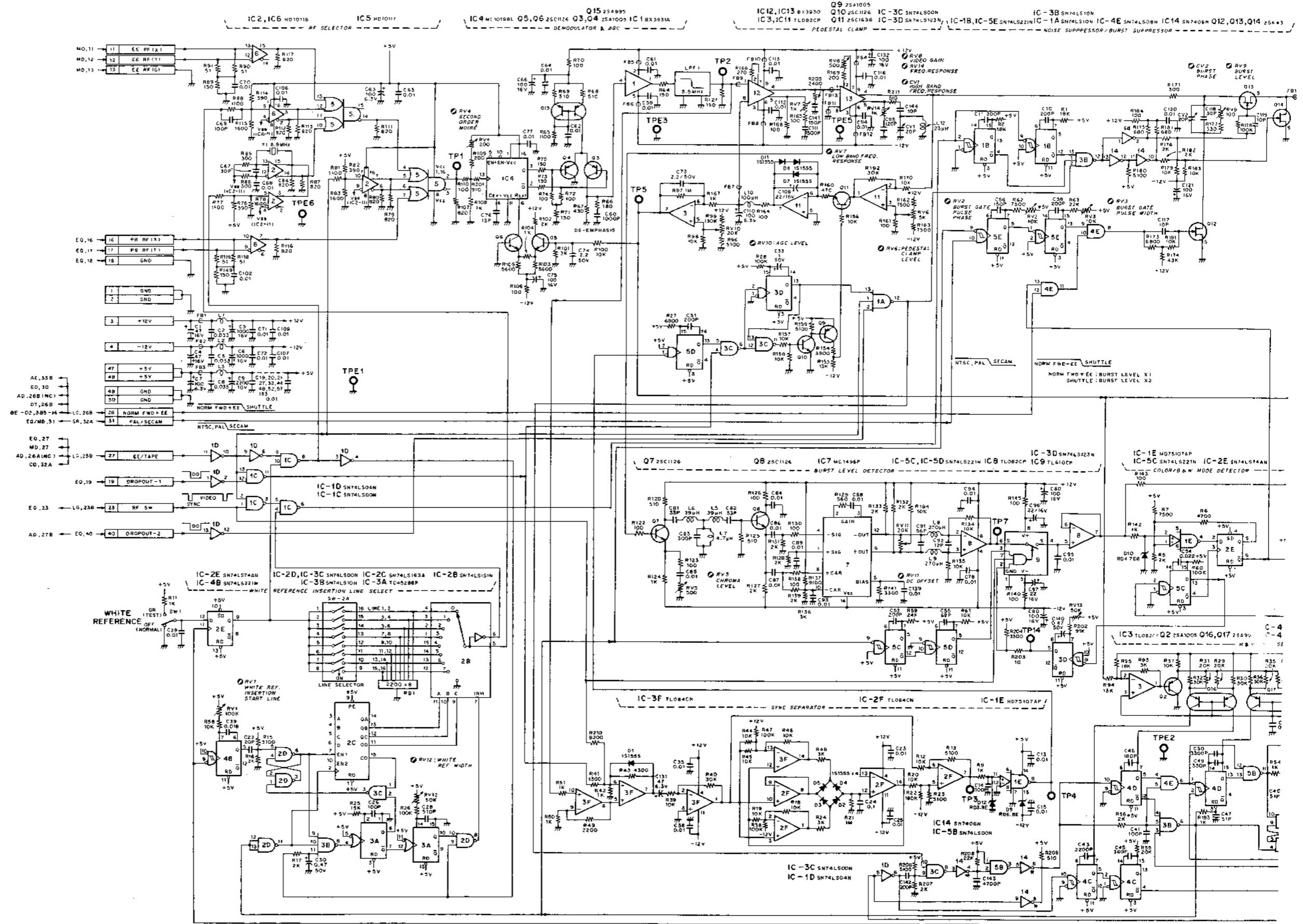
1-606-661-12 COMPONENT SIDE

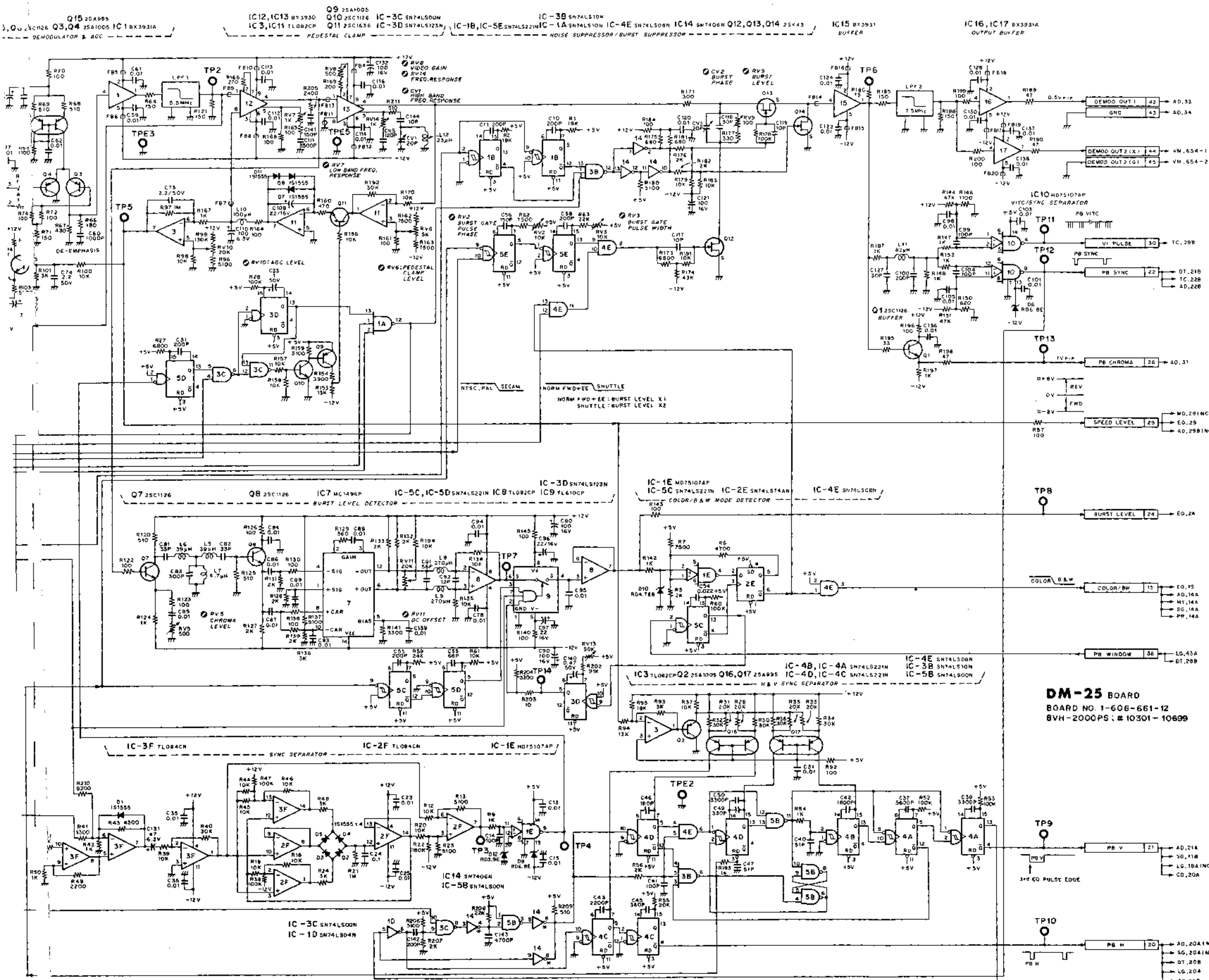
St-r00-200-1

RB1



DM-25 BOARD
Video Demodulator





DM-25 BOARD (1-606-661-14)
Component Side

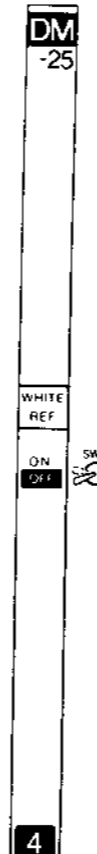
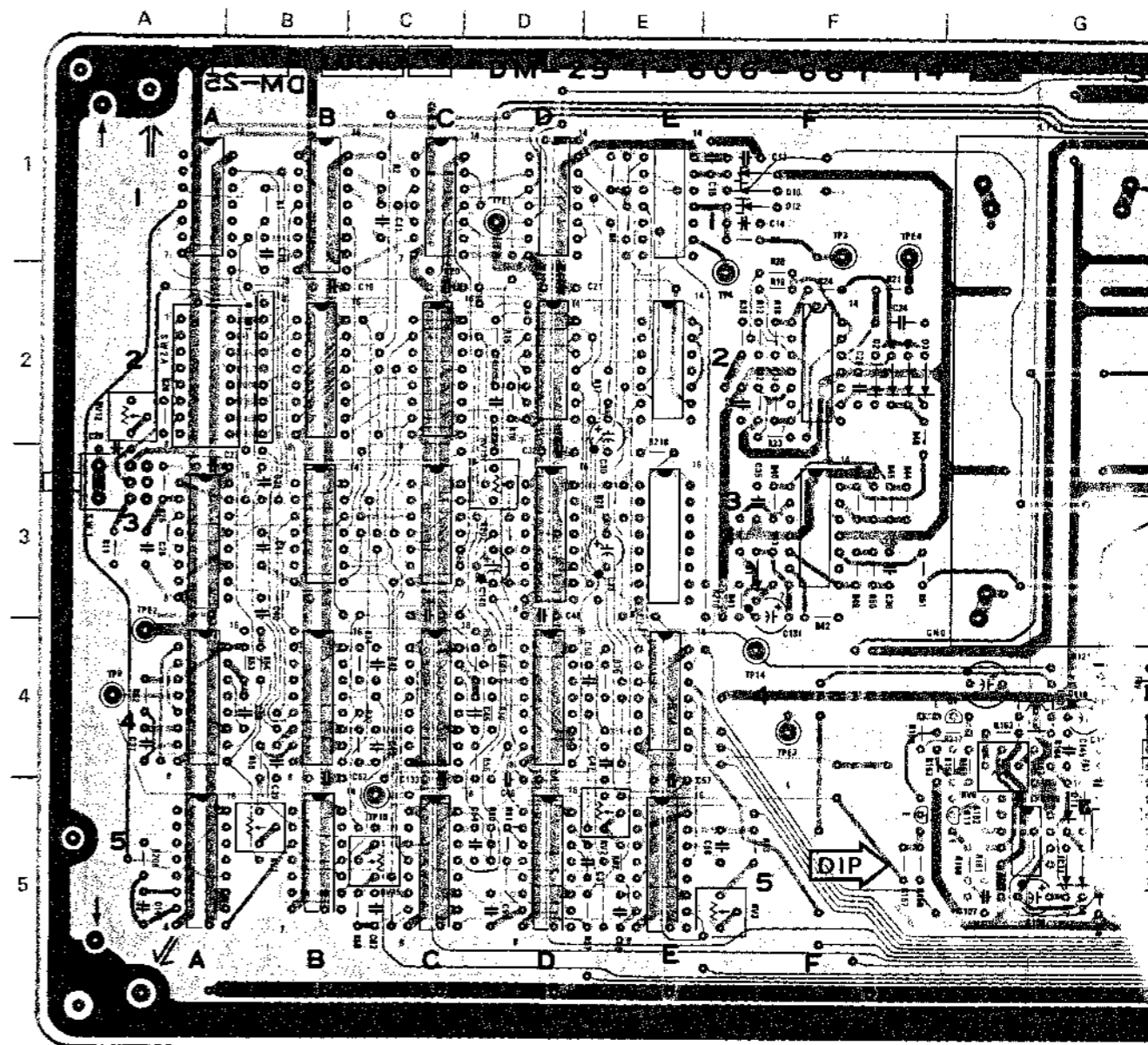
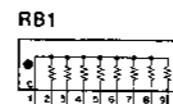
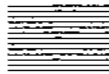


圖 1-606-661-14 COMPONENT SIDE



2000(J); #10801 - 22399
 2000(U/C); #11001 - 22599
 2000PS; #10701 - 12299
 2500(J); #10001 - 10199
 2500(U/C); #10001 - 10199

CARD RACK DM-25



DM-25 CARD RACK

1-606-661-14

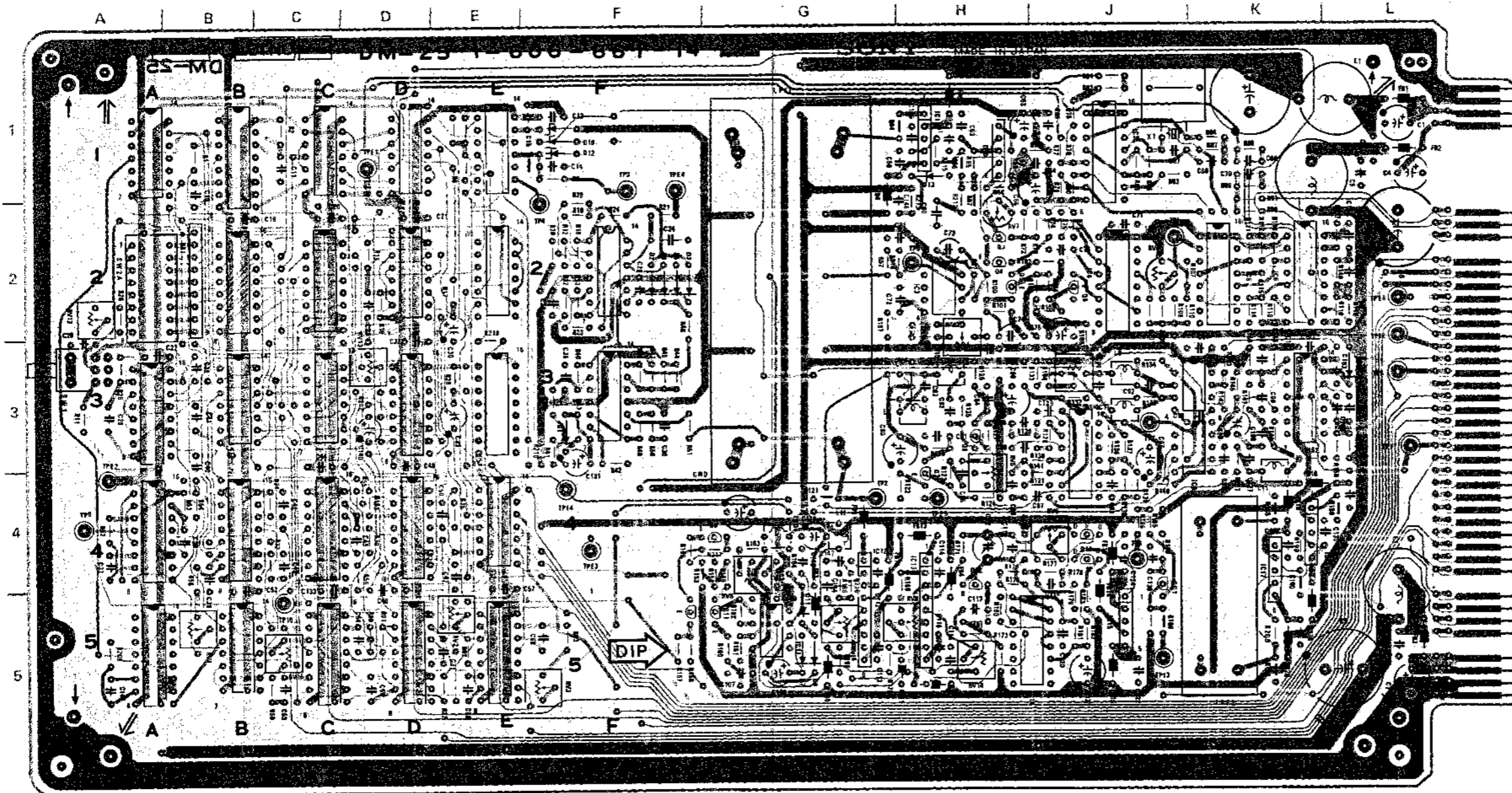
2000(J); #10801 - 22399
 2000(U/C); #11001 - 22599
 2000PS; #10701 - 12299
 2500(J); #10001 - 10199
 2500(U/C); #10001 - 10199

DM-25

WHITE REF

ON SWI

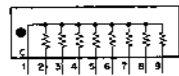
4



1-606-661-14 COMPONENT SIDE

1-606-661-14 SOLDER SIDE

RB1



DM-25 (1-606-661-14)

BVH-2000 (J, U/C)
 BVH-2000PS
 BVH-2500 (J, U/C)

CV2	4B	Q1	4J
D1	3F	Q3	2B
D2	2F	Q4	2B
D3	2F	Q5	2B
D4	2F	Q6	2J
D5	2F	Q7	4B
D6	3L	Q8	3B
D7	5G	Q9	4G
D8	5G	Q10	5P
D9	1F	Q11	5G
D10	1F	Q12	4B
D11	5G	Q13	4J
D12	1F	Q14	4J
D13	1B	Q15	1B
IC1	1B	RB1	2B
IC1A		RV1	5B
IC1B		RV2	5E
IC1C		RV3	5P
IC1D		RV4	2J
IC1E		RV5	4B
IC2	1J	RV6	4G
IC2B		RV7	2B
IC2C		RV8	5B
IC2D		RV9	4J
IC2E		RV10	3B
IC2F		RV11	3J
IC3	2B	RV12	2A
IC3A		RV13	3D
IC3B		RV14	5B
IC3C		RV15	5C
IC3D		RV16	5C
IC3F		SW1	3A
IC4	2J	SW2A	
IC4A		TP1	2J
IC4B		TP2	4G
IC4C		TP3	1P
IC4D		TP4	1P
IC4E		TP5	2B
IC5	2K	TP6	4J
IC5A		TP7	3J
IC5B		TP8	3L
IC5C		TP9	4A
IC5D		TP10	5C
IC5E		TP11	3L
IC6	2K	TP12	3L
IC7	3J	TP13	5J
IC8	3K	TP14	4P
IC9	3K	TPE1	1D
IC10	3K	TPE2	4A
IC11	5G	TPE3	4P
IC12	5G	TPE4	1P
IC13	5H	TPE5	4R
IC14	5J	TPE6	2L
IC15	5J		
IC16	4K		
IC17	4K		
		X1	1D

C-27(9/19)

C-27(10/19)

C-27(10/19)

C-27(9/19)

C-27(8/19)

BVH-2000/PS

C-24

C-23

C-22

BVH-2500

2500(J); #10001 - 10199 2000(J); #10801 - 22399 1-606-661-13, 14
2500(U/C); #10001 - 10199 2000(U/C); #11001 - 22599
2000PS; #10701 - 12299

CARD RACK DM-25

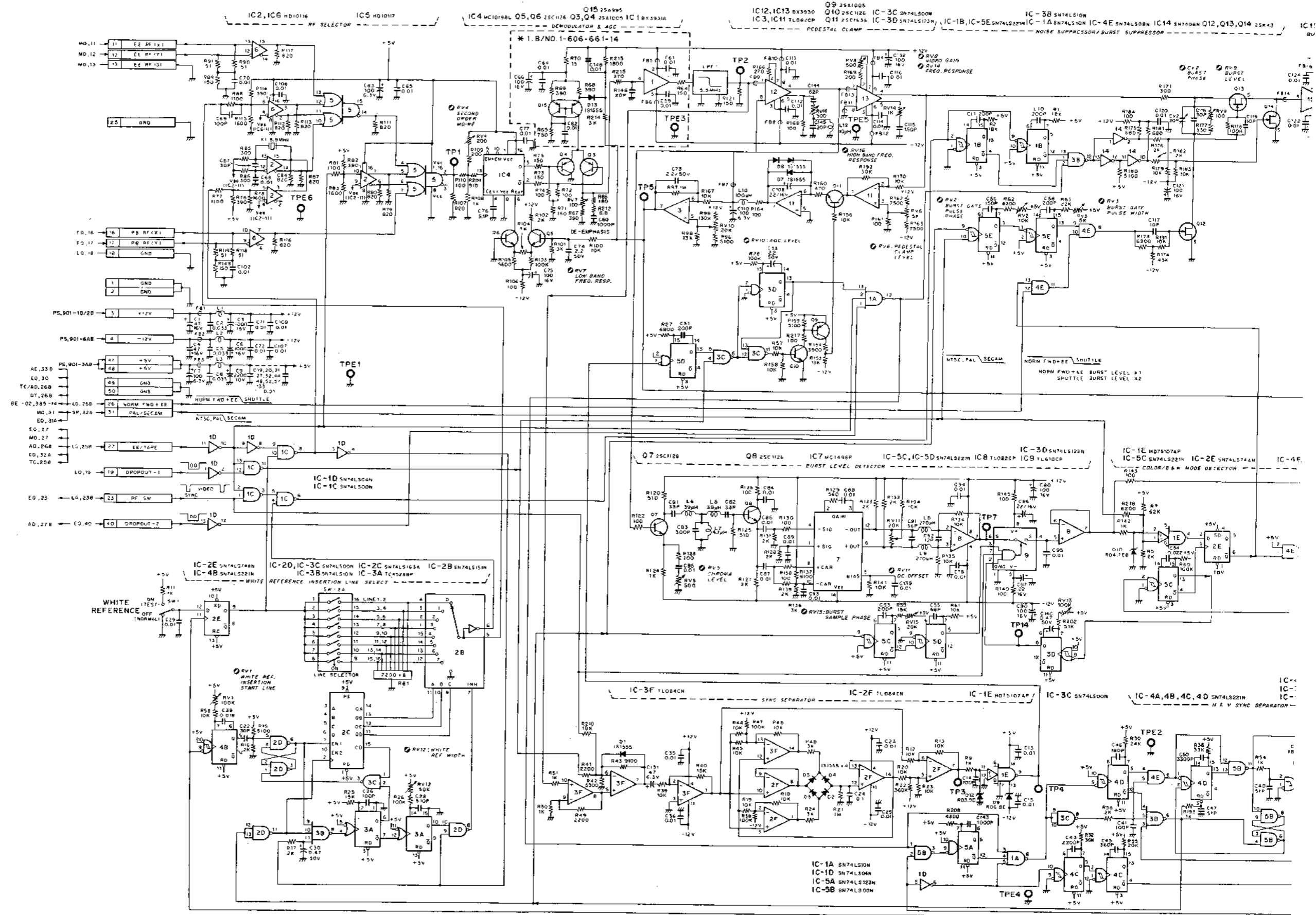
DM-25 CARD RACK

1-606-661-13, 14

2000(J); #10801 - 22399 2500(J); #10001 - 10199
2000(U/C); #11001 - 22599 2500(U/C); #10001 - 10199
2000PS; #10701 - 12299

DM-25 BOARD

Video Demodulator



C-27(11/19)

C-27(12/19)

C-27(13/19)

C-27(12/19)

C-27(11/19)

H-2000/PS

C-27(11/19)

C-27

C-27

C-27

C-27

C-26

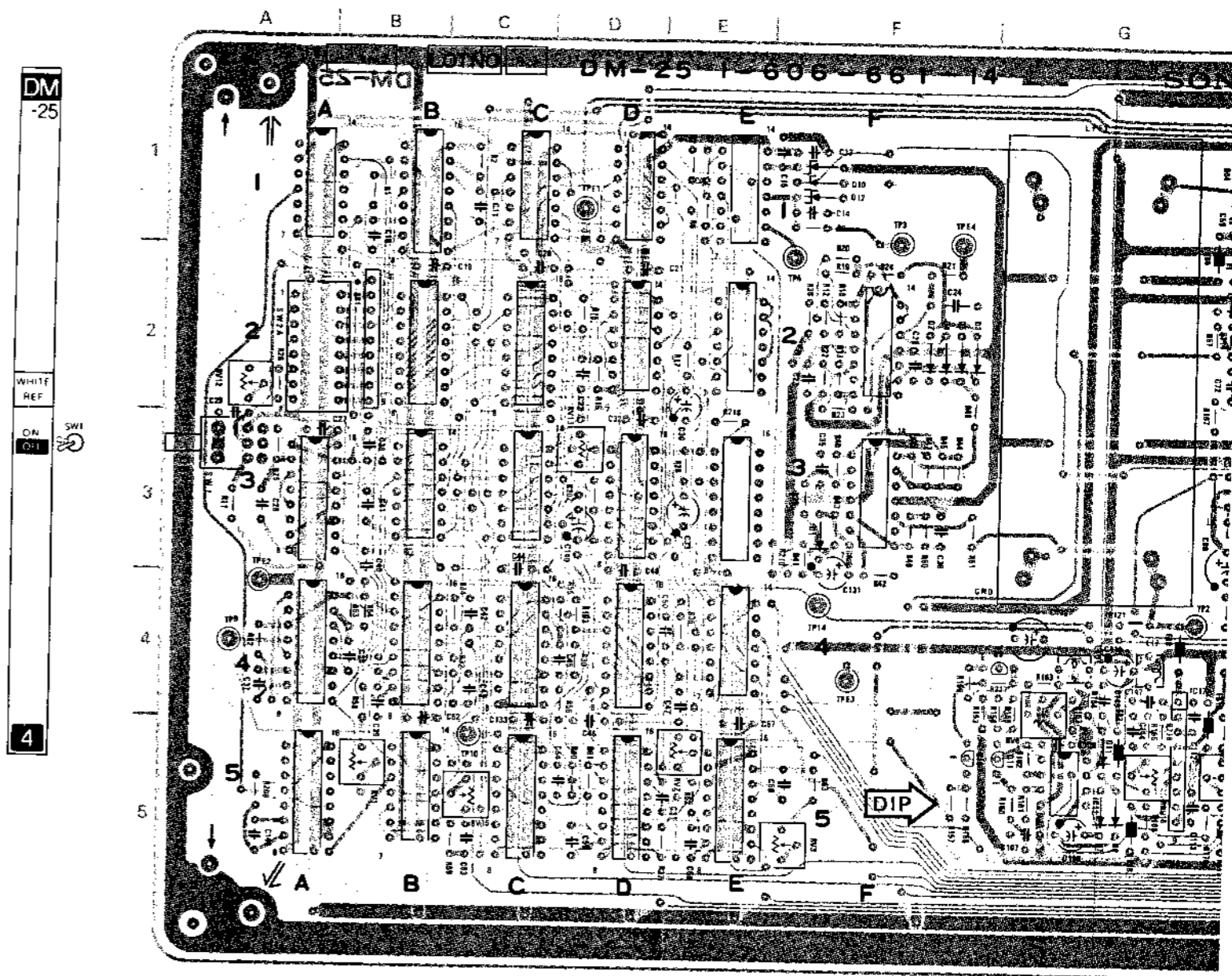
C-25

BVH-2500

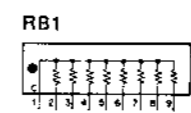
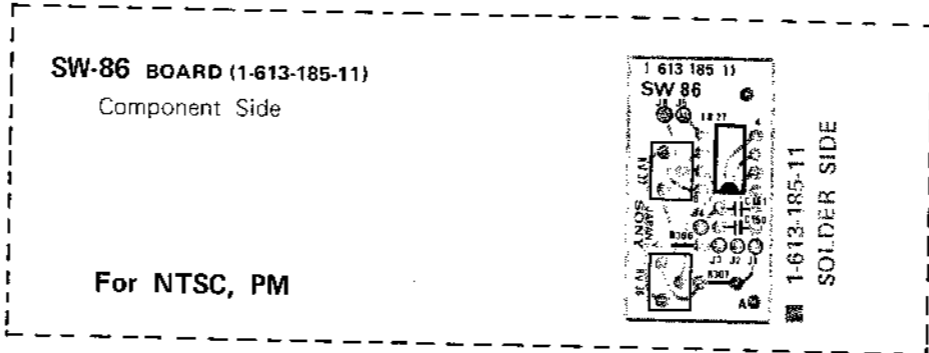
1-606-661-14 2000(J); #22401 -
 2000(U/C); #22601 -
 2000PS; #22301 -
 2000PM; #20201 -
 2500(J); #10201 -
 2500(U/C); #10201 -

DM-25 BOARD (1-606-661-14)
 Component Side

2000(J); #22401 - 1-606-661-14
 2000(U/C); #22601 -
 2000PS; #22301 -
 2000PM; #20201 -
 2500(J); #10201 -
 2500(U/C); #10201 -



1-606-661-14 COMPONENT SIDE



2000(J); #22401 - 1-606-661-14
 2000(U/C); #22601 -
 2000PS; #22301 -
 2000PM; #20201 -
 2500(J); #10201 -
 2500(U/C); #10201 -

CARD RACK DM-25

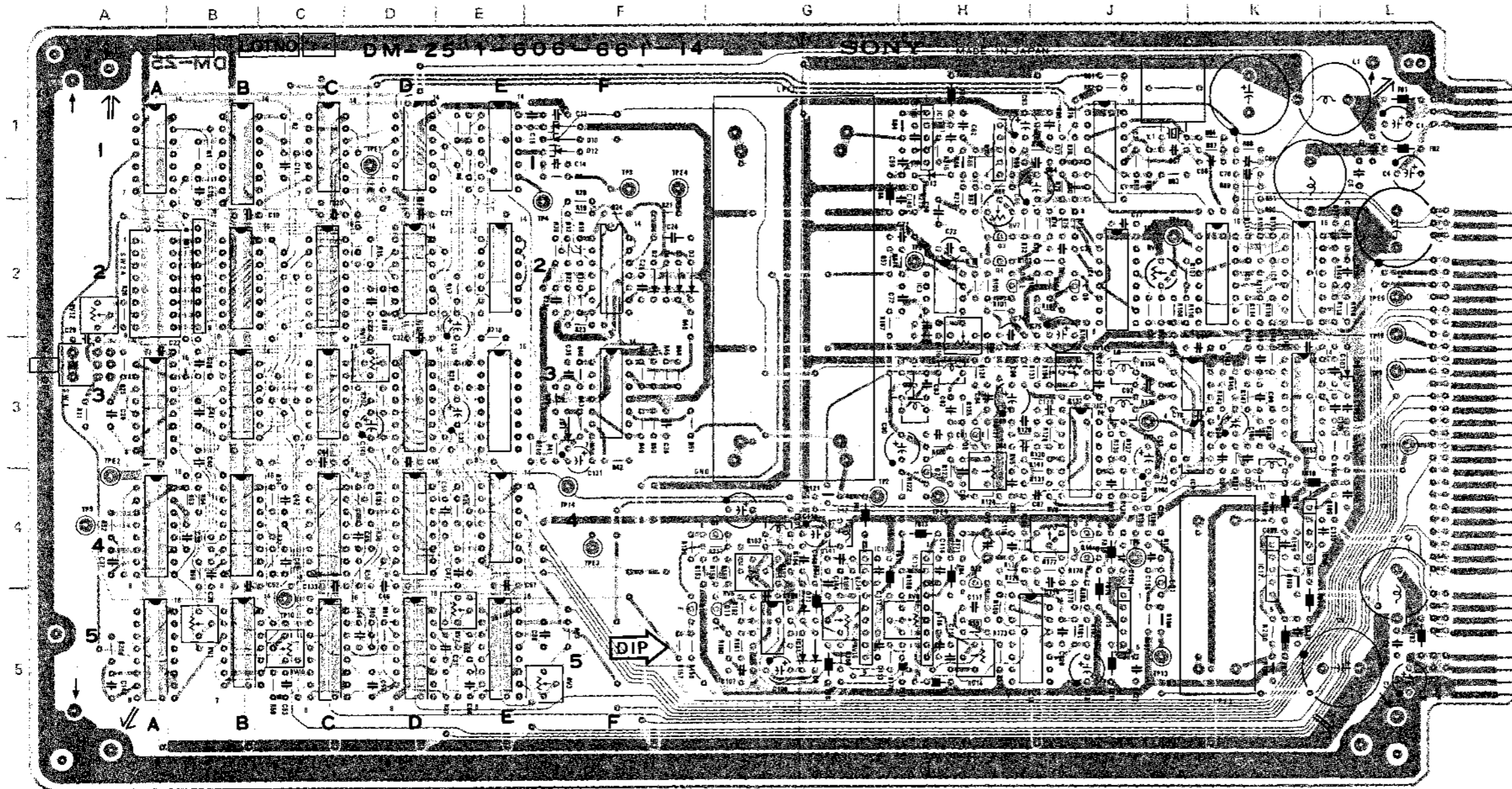
DM-25 CARD RACK

1-606-661-14 2000(J); #22401 -
 2000(U/C); #22601 -
 2000PS; #22301 -
 2000PM; #20201 -
 2500(J); #10201 -
 2500(U/C); #10201 -

DM-25

WHITE REF
 ON OFF

4



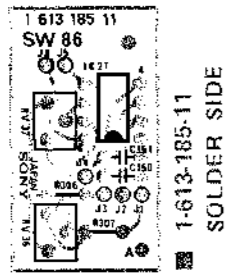
1-606-661-14 COMPONENT SIDE

1-606-661-14 SOLDER SIDE

DM-25 (1-606-661-14 & UP)

BVH-2000(J,U/C)
 BVH-2000PS
 BVH-2000PM
 BVH-2500(J,U/C)

CV2	4B	Q5	2B
		Q6	2J
D1	3F	Q7	4B
D2	2P	Q8	3B
D3	2P	Q9	4G
D4	2P	Q10	5F
D5	2P	Q11	5G
D6	3L	Q12	4B
D7	5G	Q13	4J
D8	5G	Q14	4J
D9	1F	Q15	1B
D10	1F		
D11	5G	RB1	2B
D12	1F		
D13	1H	RV1	5B
		RV2	5E
IC1	1H	RV3	5F
IC1A		RV4	2J
IC1B		RV5	4B
IC1C		RV6	4C
IC1D		RV7	2B
IC1E		RV8	5B
IC2	1J	RV9	4J
IC2B		RV10	3B
IC2C		RV11	3H
IC2D		RV12	2A
IC2E		RV13	3D
IC2F		RV14	5E
IC3	2B	RV15	5C
IC3A		RV16	5C
IC3B		RV17	2J
IC3C			
IC3D		(SW-86 BOARD)	
IC3E		RV36	1A
IC3F		RV37	1A
IC4	2J		
IC4A		SW1	3A
IC4B		SW2A	
IC4C			
IC4D			
IC4E		TP1	2J
IC5	2K	TP2	4G
IC5A		TP3	1F
IC5B		TP4	1F
IC5C		TP5	2B
IC5D		TP6	4J
IC5E		TP7	3J
IC6	2K	TP8	3L
IC7	3J	TP9	4A
IC8	3K	TP10	5C
IC9	3K	TP11	3L
IC10	3K	TP12	3L
IC11	5G	TP13	5J
IC12	5C	TP14	4F
IC13	5H		
IC14	5J	(SW-86 BOARD)	
IC15	5J	TPA	2A
IC16	4K		
IC17	4K	TPB1	1D
		TPB2	4A
		TPB3	4F
		TPB4	1F
		TPB5	4H
		TPB6	2L
Q1	4J		
Q2	2H		
Q4	2H	X1	1J



C-27(15/19)

C-27(16/19)

BVH-2500

C-27(2/7)

C-27(3/7)

C-27(4)

'H-2000/PS

C-27(14/19)

C-27(15/19)

C-27(16/19)

C-27(19/19)

C-27(18/19)

C-27(17/19)

C-27(16/19)

C-27(15/19)

C-27(14/19)

C-27(13/19)

C-27(12/19)

C-27(11/19)

C-27(10/19)

C-27(9/19)

C-27(8/19)

C-27(7/19)

2500(J); #10201 -
2500(U/C); #10201 -

2000(J); #22401 -
2000(U/C); #22601 -
2000PS; #22301 -
2000PM; #20201 -

1-606-661-14 & up

CARD RACK DM-25

DM-25 CARD RACK

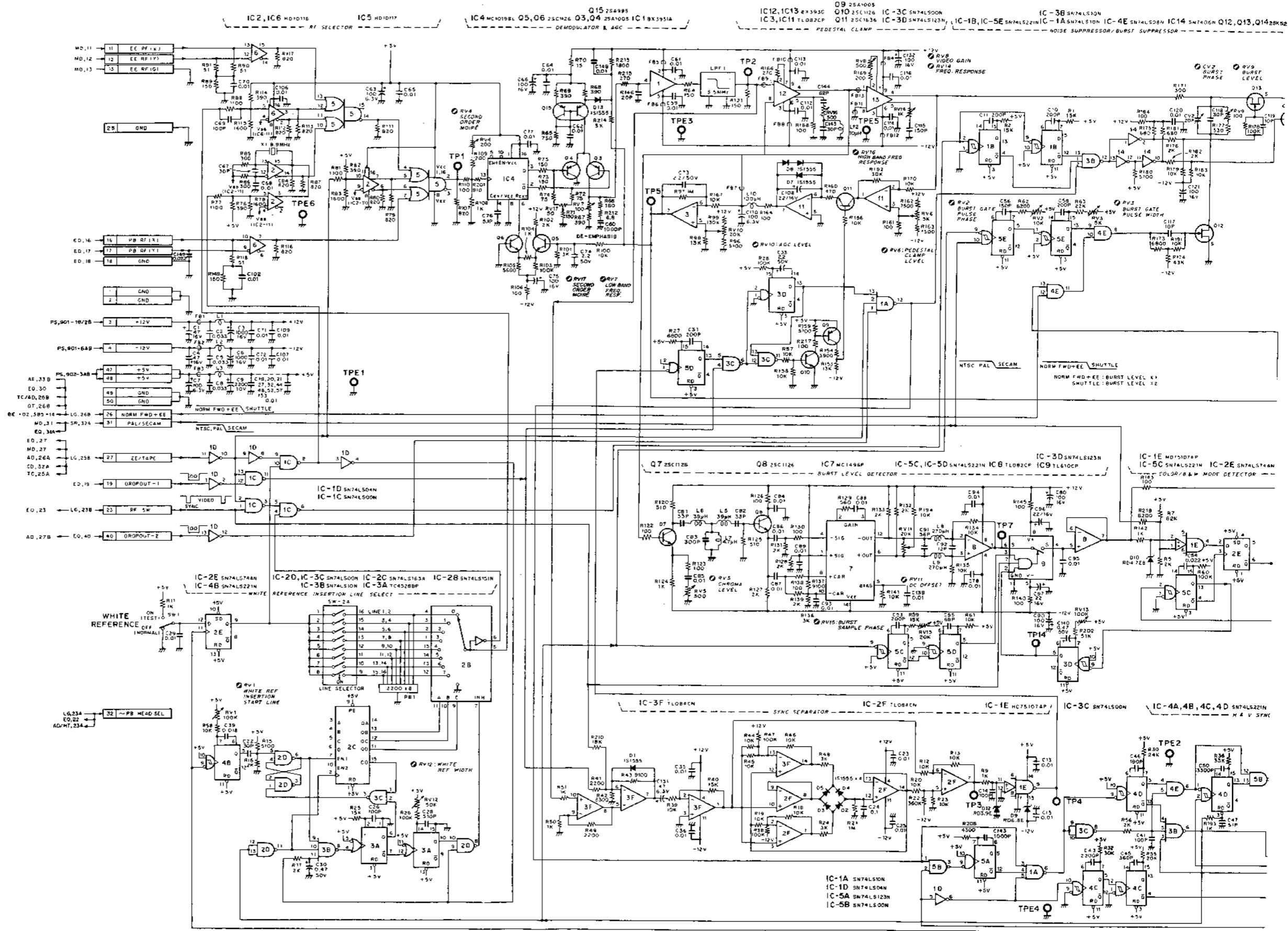
1-606-661-14 & up

2000(J); #22401 -
2000(U/C); #22601 -
2000PS; #22301 -
2000PM; #20201 -

2500(J); #10201 -
2500(U/C); #10201 -

DM-25 BOARD

Video Demodulator



C-27(17/19)

C-27(18/19)

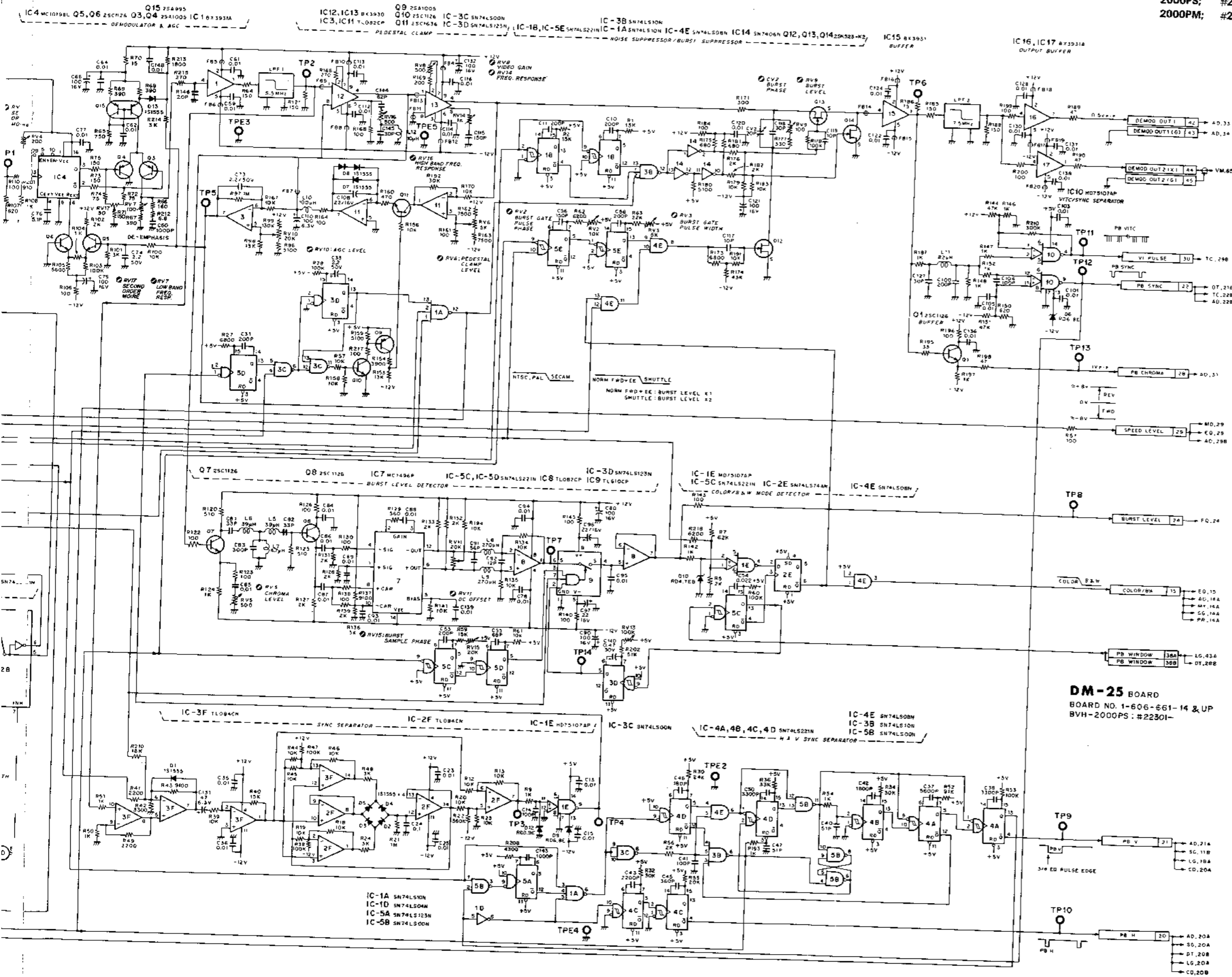
BVH-2500

2000(J); #22401 -
2000(U/C); #22601 -
2000PS; #22301 -
2000PM; #20201 -

2500(J); #10201 -
2500(U/C); #10201 -

2500(J); #10201 -
2500(U/C); #10201 -

2000(J); #22401 -
2000(U/C); #22601 -
2000PS; #22301 -
2000PM; #20201 -



DM-25 BOARD
BOARD NO. 1-606-661-14 & UP
BVH-2000PS: #22301-

MD-14 BOARD (1-606-660-11)
Component Side

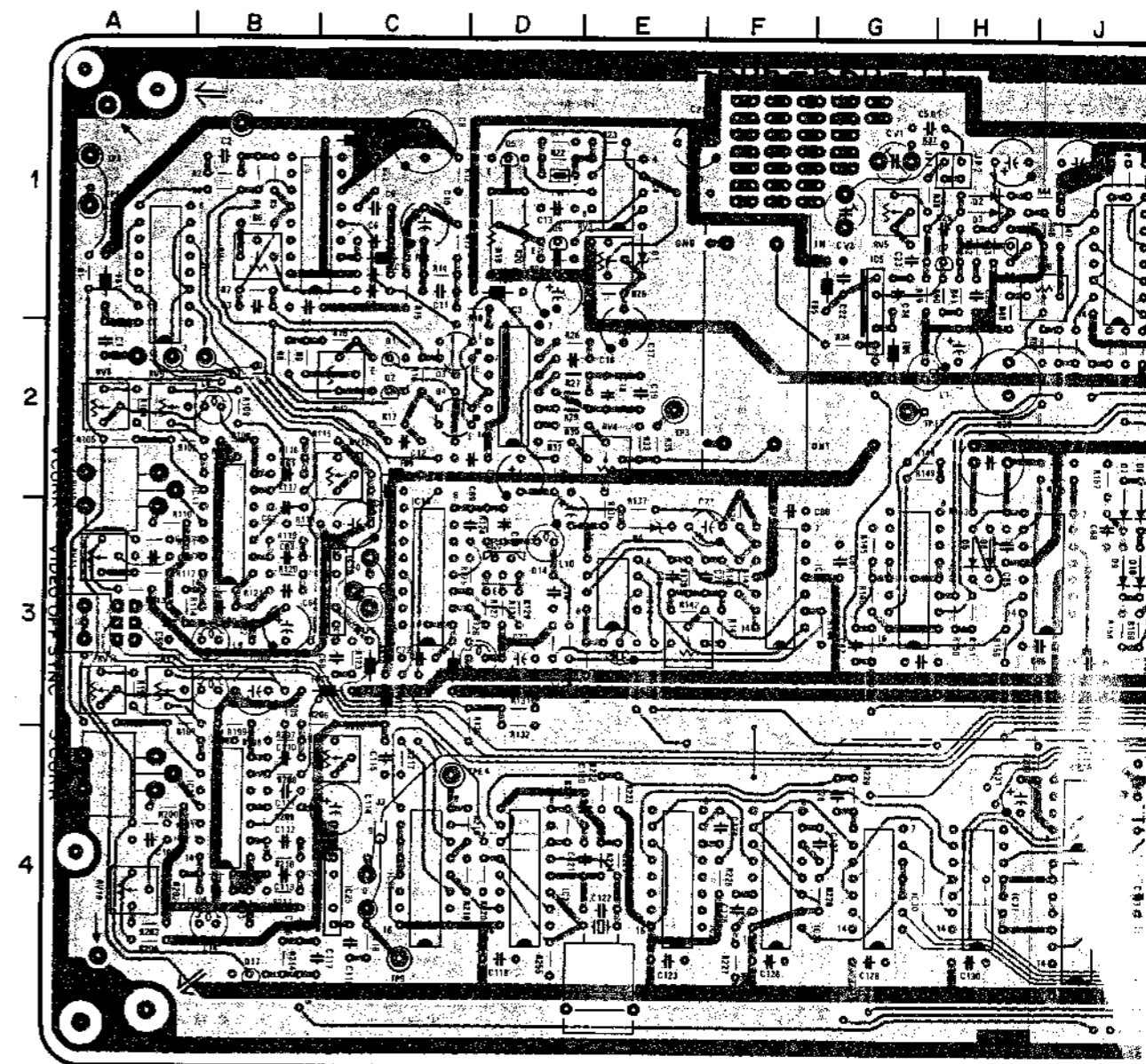
MD
-14

REC CUR (V) RV10

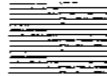
METER
RF (V) ND
RF (SI) S1

REC CUR (SI) RV18

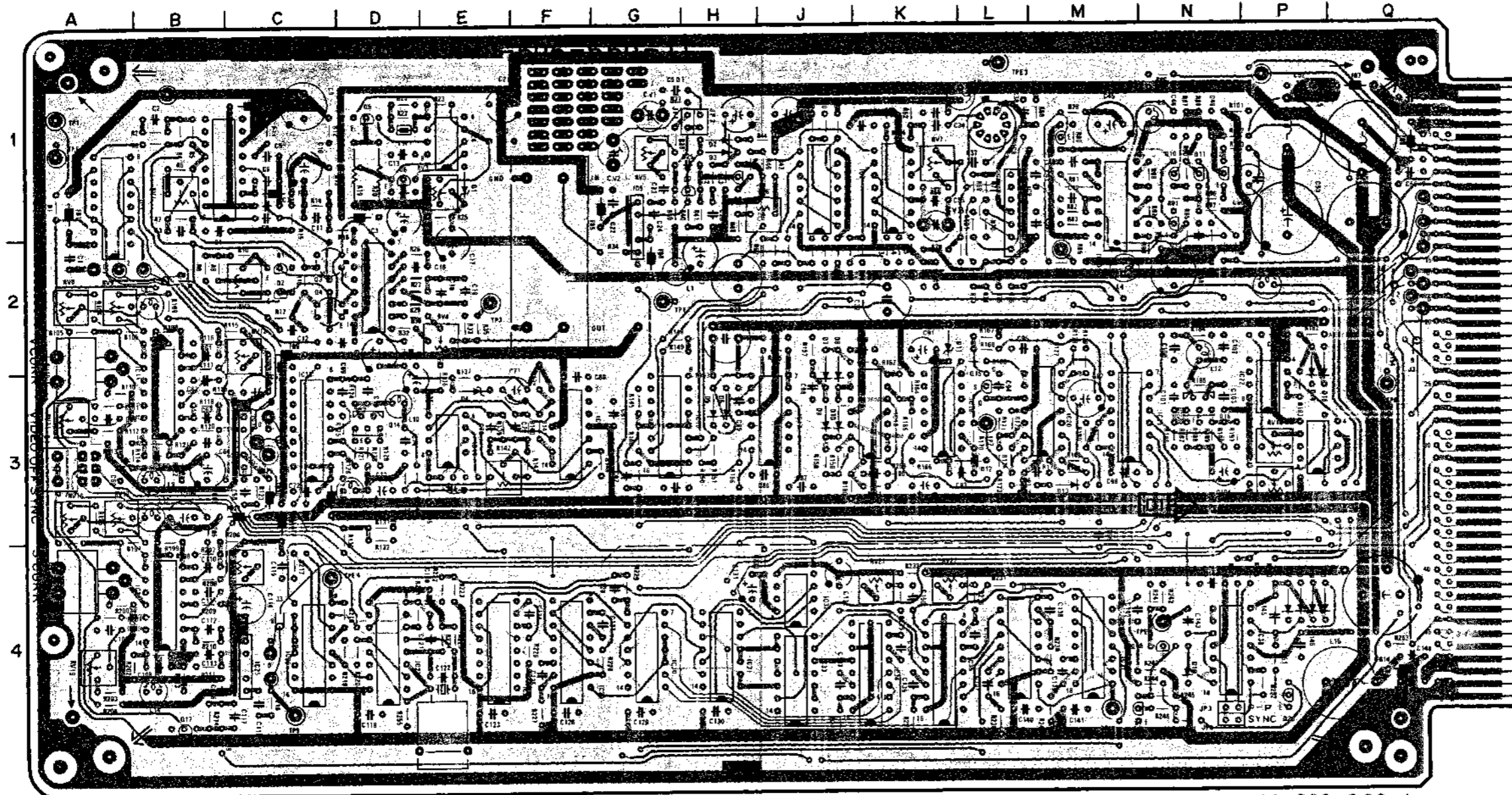
5



1-606-660-11 COMPONENT SIDE



MD-14
REC CUR (V)
METER
RF (V)
RF (S)
REC CUR (S)
5



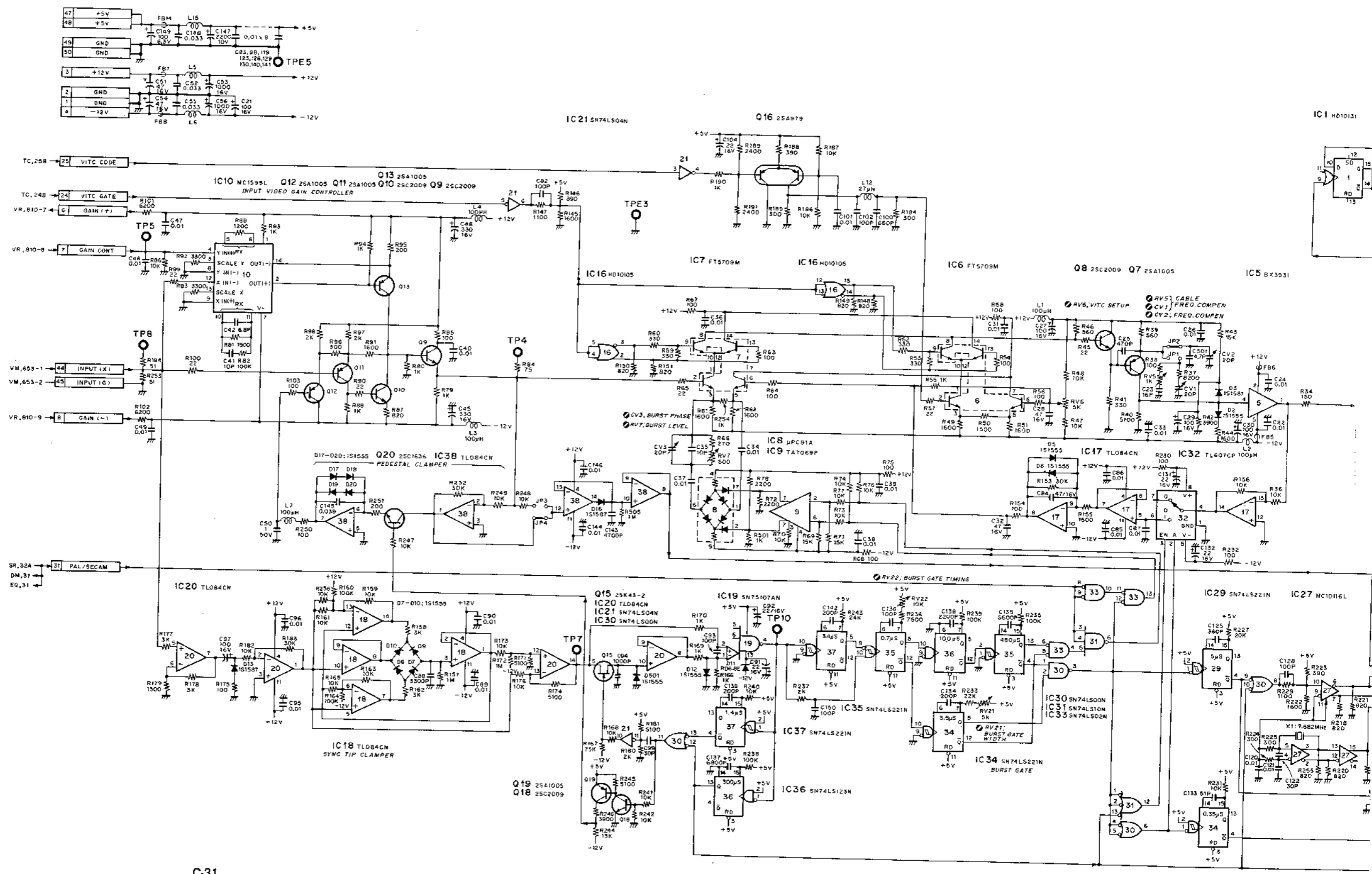
1-606-660-11 COMPONENT SIDE

MD-14 (1-606-660-11)

BW4-2000(J, U/C1)	Q1	2C
BW4-2000P5	Q2	2C
	Q3	2C
CV1	IG	04
CV2	IG	05
CV3	IK	06
	Q7	1H
	Q8	1H
D1	1E	08
D2	1H	09
D3	2H	10
D4	3E	11
D5	3H	12
D6	3H	13
D7	5J	14
D8	5J	15
D9	5J	16
D10	5J	17
D11	2K	18
D12	5L	19
D13	3M	20
D14	3P	21
D15	3P	1F
D16	4N	RV1
D17	4P	RV2
D18	4P	RV3
D19	4P	RV4
D20	4P	RV5
D21	3B	RV6
D22	4B	RV7
	RV8	2A
	RV9	2A
IC1	1A	RV10
IC2	1B	RV11
IC3	2D	RV12
IC4	1E	RV13
IC5	1G	RV14
IC6	1K	RV15
IC7	1K	RV16
IC8	1L	RV17
IC9	1L	RV18
IC10	1M	RV19
IC11	3B	RV20
IC12	3C	RV21
IC13	3C	RV22
IC14	3E	5I
IC15	3F	5A
IC16	3G	
IC17	3J	TP1
IC18	3K	TP2
IC19	3K	TP3
IC20	3M	TP4
IC21	3M	TP5
IC22	3P	TP6
IC23	3P	TP7
IC24	4B	TP8
IC25	4C	TP9
IC26	4C	TP10
IC27	4D	
IC28	4E	TPE1
IC29	4F	TPE2
IC30	4G	TPE3
IC31	4H	TPE4
IC32	4J	TPE5
IC33	4K	
IC34	4K	X1
IC35	4K	4E
IC36	4L	
IC37	4M	
IC38	4N	
JP1	1H	
JP2	1H	
JP3	4N	
JP4	4N	

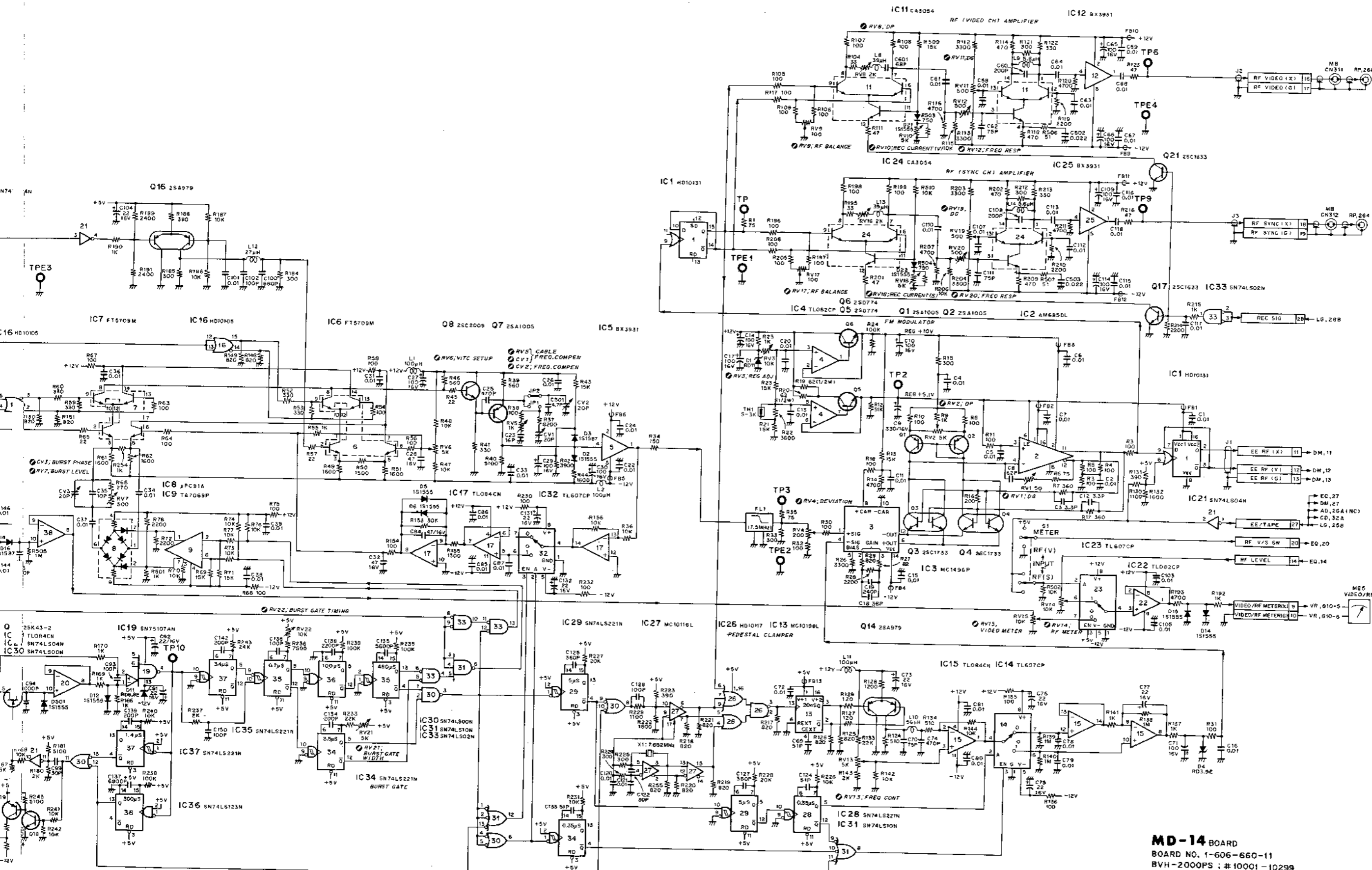
1-606-660-11

MD-14 BOARD
Video Modulator



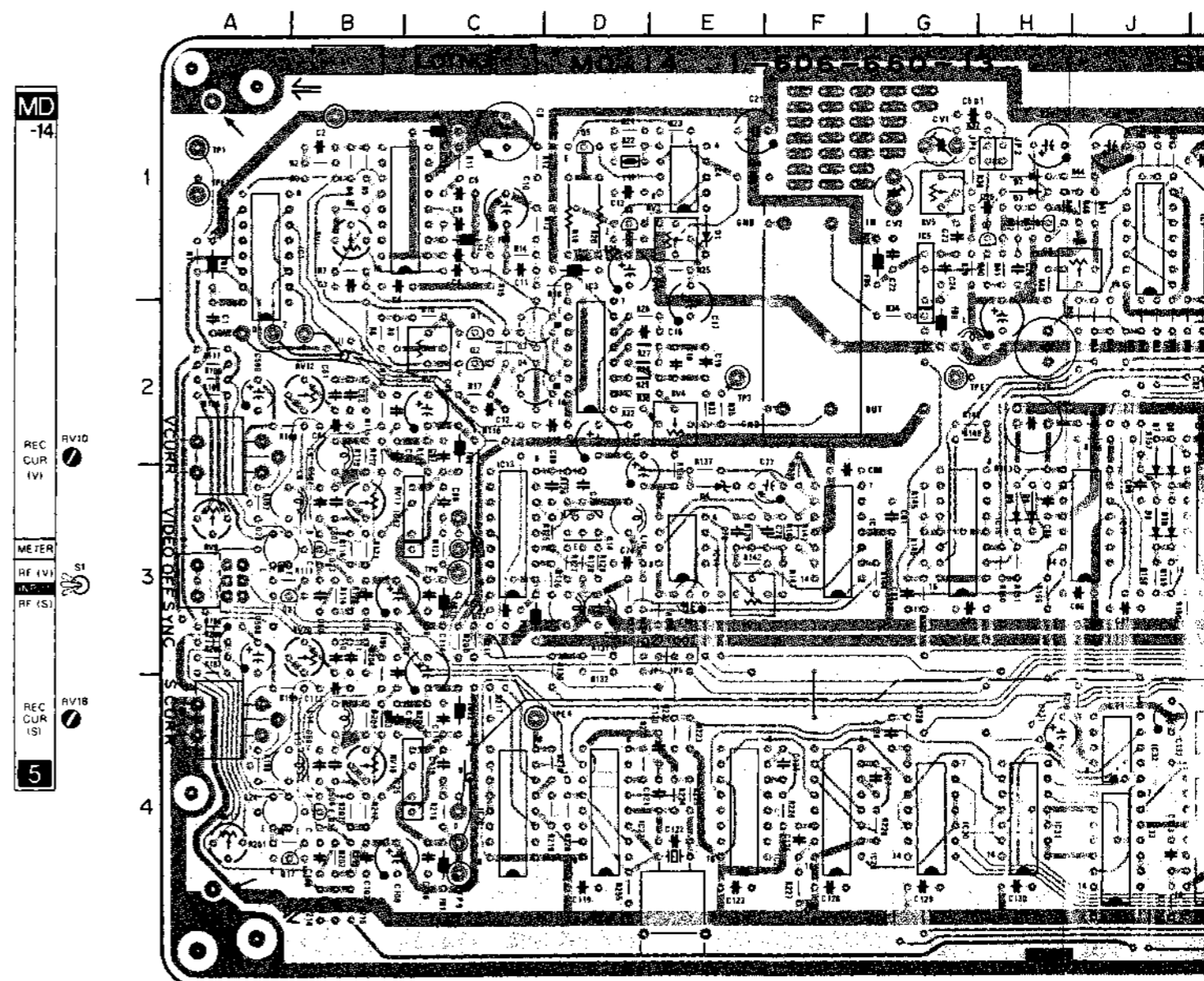
C-31

C-32

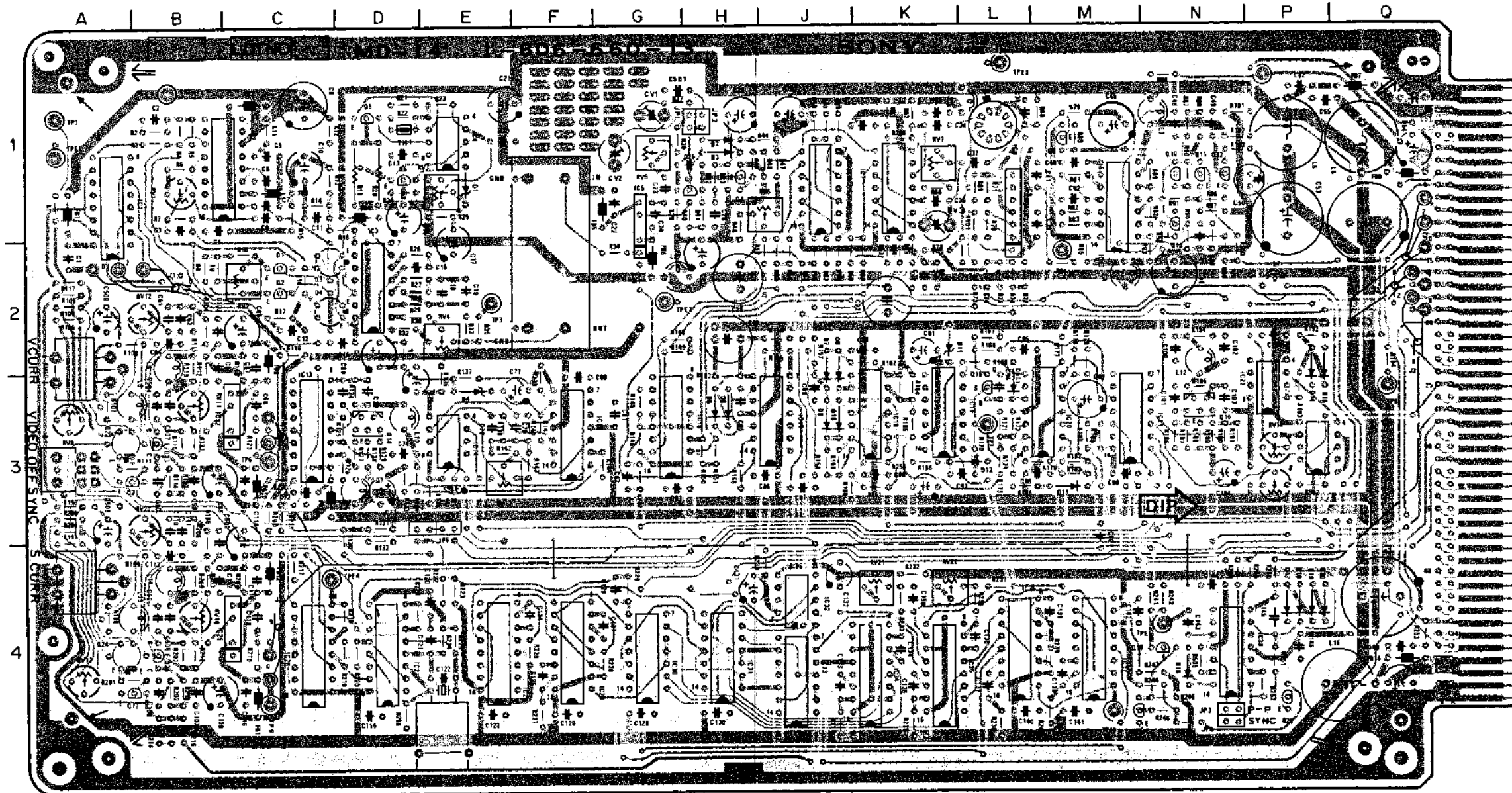
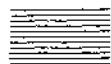


MD-14 BOARD
 BOARD NO. 1-606-660-11
 BVH-2000PS ; # 10001-10299

MD-14 BOARD (1-606-660-13)
Component Side



1-606-660-13 COMPONENT SIDE



MD-14 (1-606-660-13 & UP)

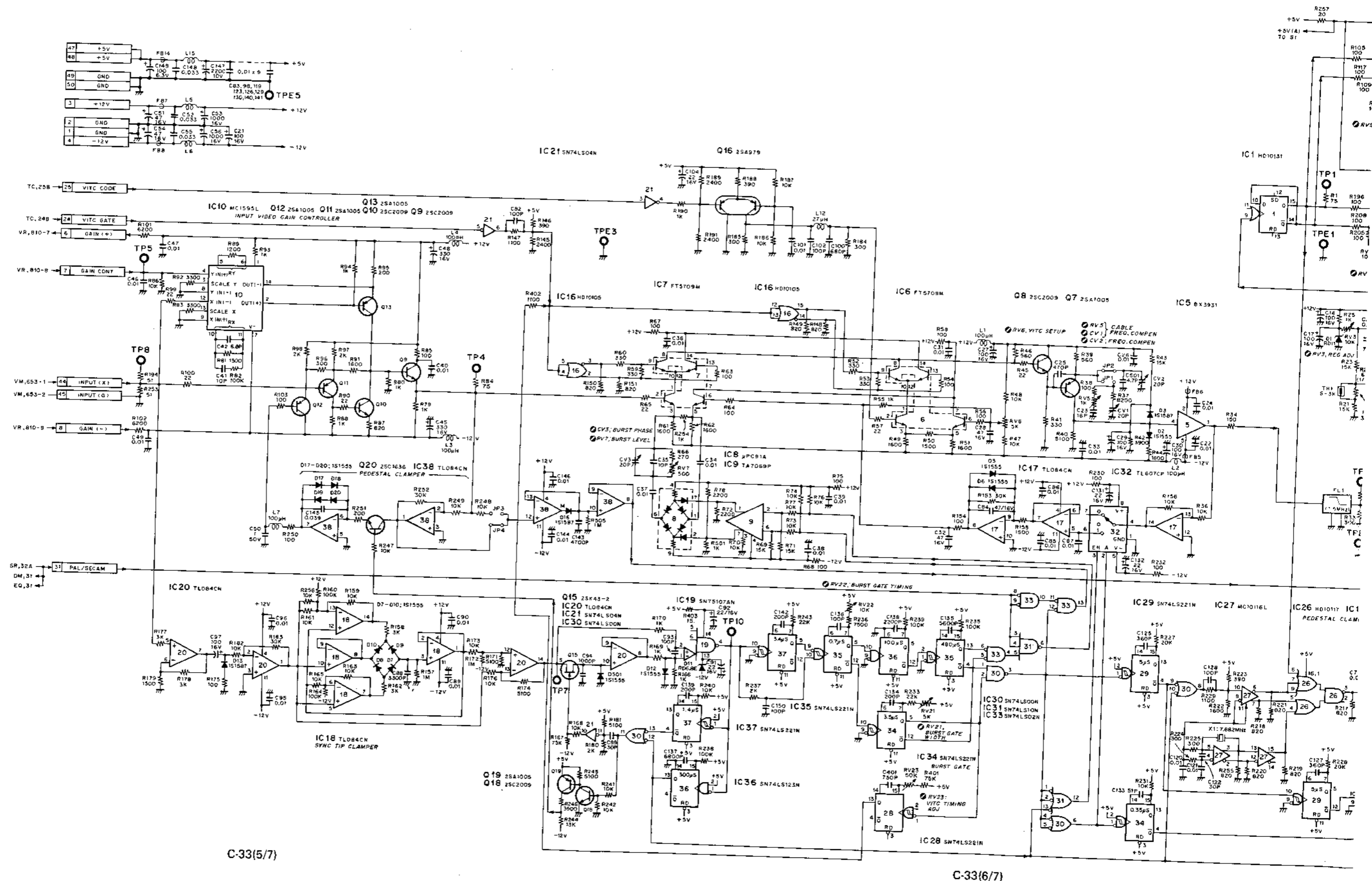
BVH-2000(J, D/C)
BVH-2000PS
BVH-2000PM

CV1	1G	Q1	2C
CV2	1G	Q2	2C
CV3	1K	Q3	2C
		Q4	2C
(PS)		Q5	1D
CV4	3B	Q6	1D
		Q7	1B
D1	1E	Q8	1B
D2	1R	Q9	1M
D3	1H	Q10	1N
D4	3E	Q11	1N
D5	3H	Q12	1N
D6	3H	Q13	1N
D7	3J	Q14	3D
D8	3J	Q15	3L
D9	3J	Q16	3N
D10	3J	Q17	4B
D11	2X	Q18	4N
D12	3L	Q19	4M
D13	3M	Q20	4P
D14	3P	Q21	3B
D15	3P	Q22	3A
D16	4N	Q23	3B
D17	4P	Q24	4A
D18	4P	Q25	4B
D19	4P		
D20	4P	RV1	1B
D501	3L	RV2	2C
		RV3	1E
		RV4	2E
IC1	1A	RV5	1G
IC2	1B	RV6	1J
IC3	2D	RV7	1K
IC4	1E	RV8	2A
IC5	1G	RV9	2A
IC6	1J	RV10	2A
IC7	1K	RV11	3B
IC8	1L	RV12	2B
IC9	1L	RV13	3E
IC10	1M	RV14	3P
IC12	3C	RV15	3P
IC13	3C	RV17	4A
IC14	3E	RV18	4A
IC15	3P	RV19	4B
IC16	3G	RV20	3B
IC17	3J	RV21	4E
IC18	3K	RV22	4K
IC19	3K	RV23	1G
IC20	3M		
IC21	3M	S1	3A
IC22	3P		
IC23	3P	TH1	1D
IC25	4C		
IC26	4C	TP1	1A
IC27	4D	TP2	1B
IC28	4E	TP3	2E
IC29	4P	TP4	2N
IC30	4P	TP5	1F
IC31	4H	TP6	3C
IC32	4J	TP7	3L
IC33	4J	TP8	3Q
IC34	4K	TP9	4C
IC35	4K	TP10	4M
IC36	4L		
IC37	4M	TPE1	1A
IC38	4N	TPE2	2G
		TPE3	1L
		TPE4	4C
JP1	1H	TPE5	4N
JP2	1H		
JP3	4N		
JP4	4N	X1	4E
JP5	3E		
JP6	3E		

1-606-660-13 COMPONENT SIDE

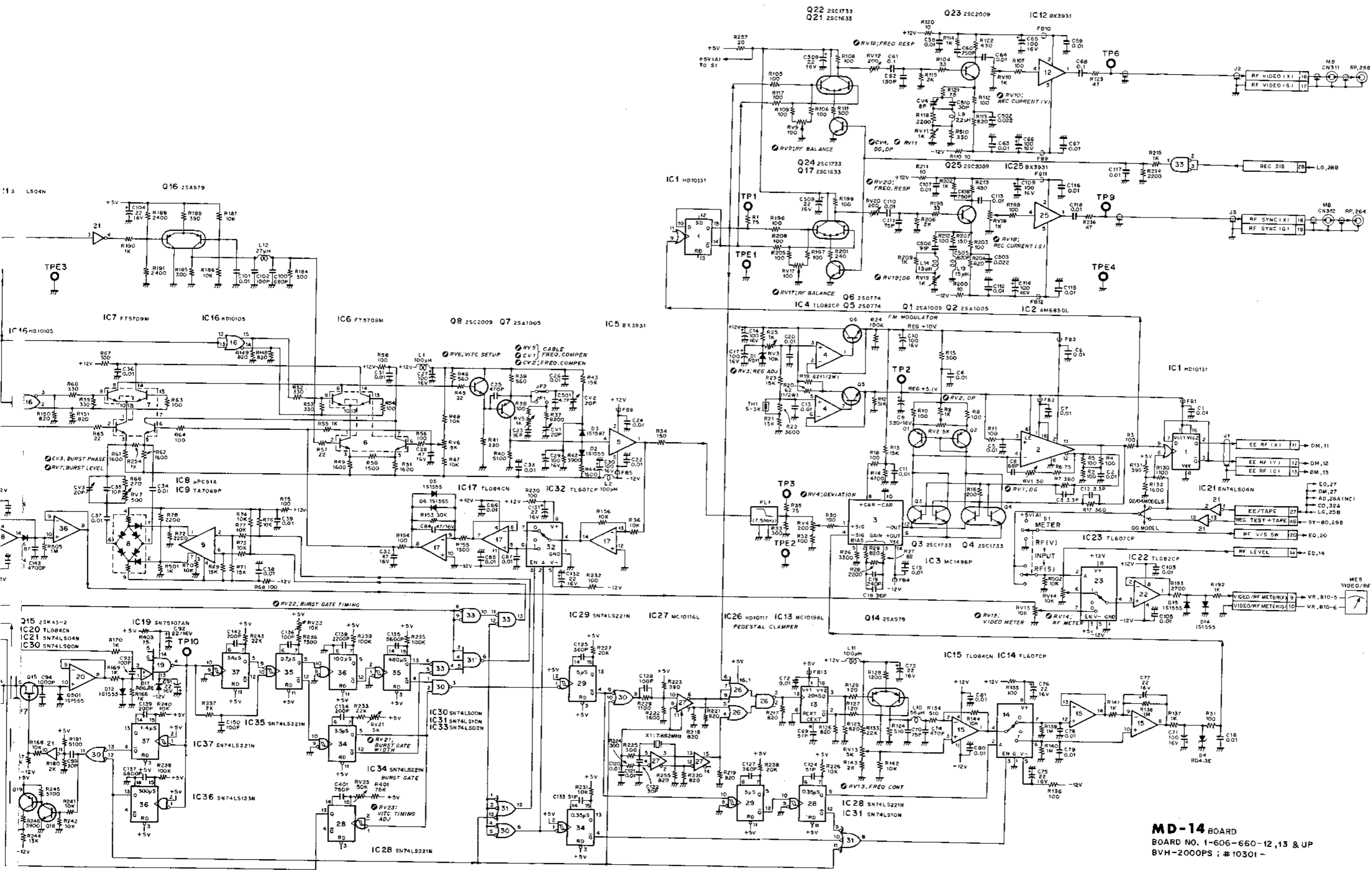
1-606-660-13

MD-14 BOARD
Video Modulator



C-33(5/7)

C-33(6/7)



MD-14 BOARD
 BOARD NO. 1-606-660-12, 13 & UP
 BVH-2000PS ; #10301 -

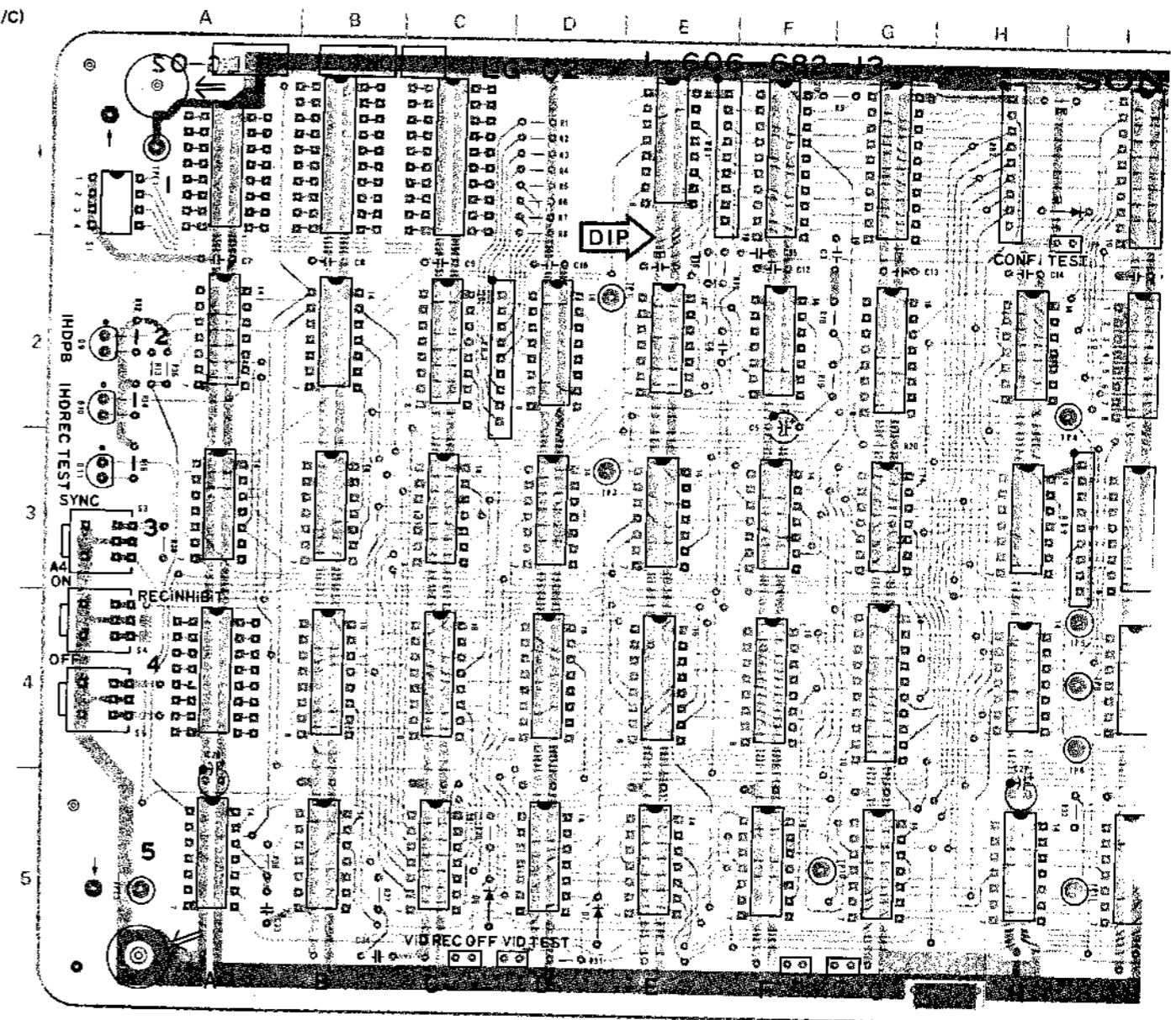
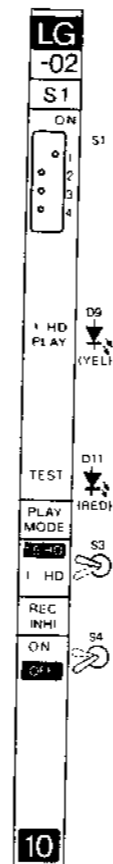
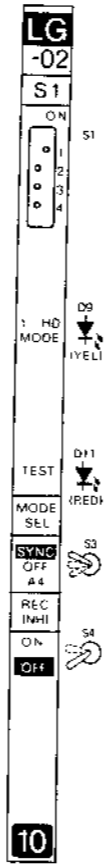
J; #10001 - 12299
U/C; #10001 - 12499
PS; #10001 - 12299
PM; #10001 - 10199

LG-02 BOARD (1-606-682-13)
Component Side

J; #10001 - 12299
U/C; #10001 - 12499
PS; #10001 - 12299
PM; #10001 - 10199

BVH-2000PS

BVH-2000(J, U/C)
BVH-2000PM



1-606-682-13 COMPONENT SIDE

RB1, 2, 3, 4, 5, 6, 7, 8, 9



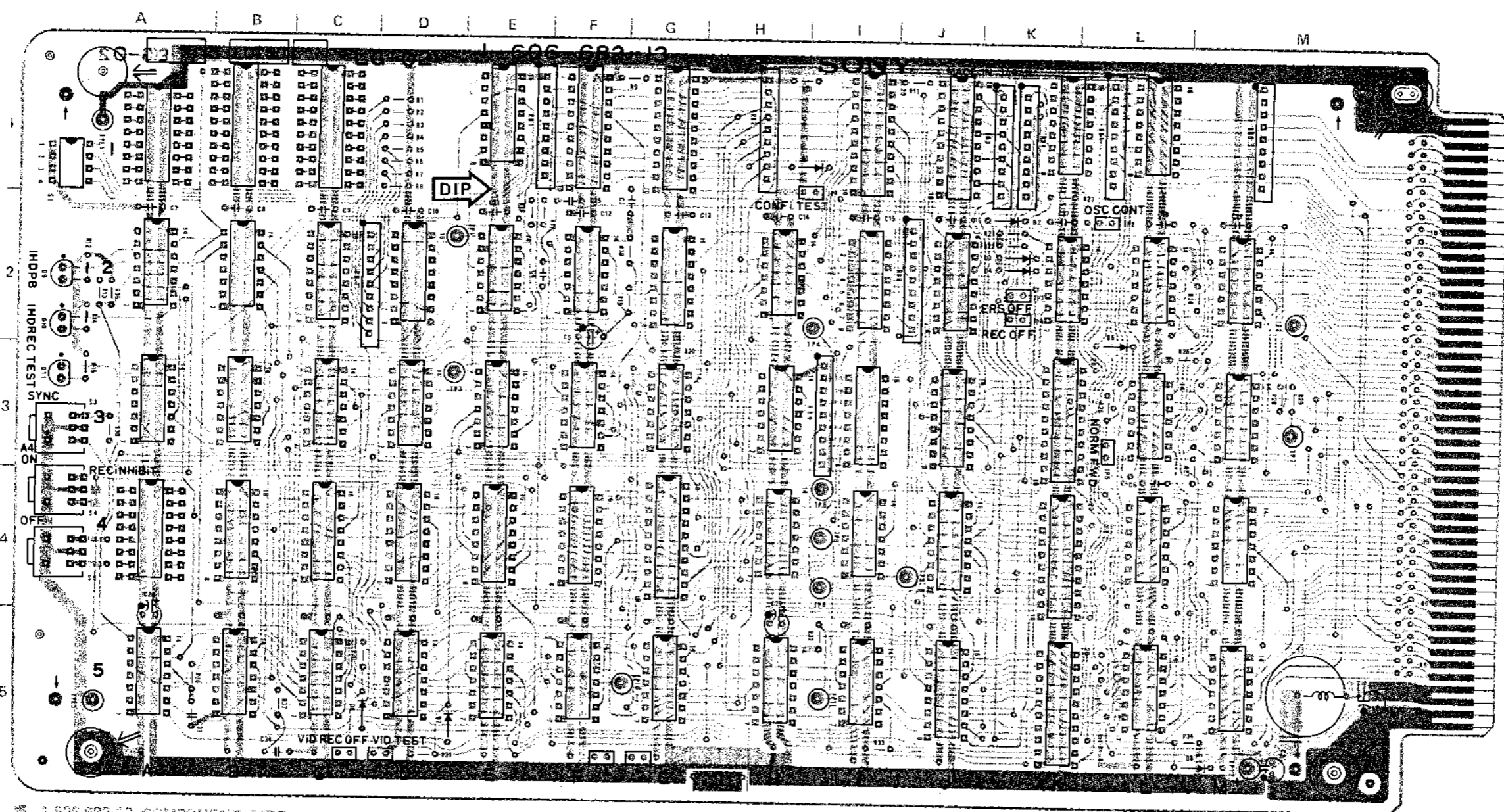
J: #10001 - 12299
 U/C: #10001 - 12499
 PS: #10001 - 12299
 PM: #10001 - 10199

CARD RACK LG-02

LG-02 CARD RACK

J: #10001 - 12299
 U/C: #10001 - 12499
 PS: #10001 - 12299
 PM: #10001 - 10199

H-2000PS BVH-2000(J, U/C)
 BVH-2000PM



LG-02 (1-606-682-13)

BVH-2000(J, U/C)			
BVH-2000PS			
BVH-2000PM			
D1	1B	JP1	1E
D2	2K	JP2	2L
D3	2K	JP3	2K
D4	2K	JP4	2K
D5	2L	JP5	3L
D6	5C	JP6	5C
D7	5D	JP7	5D
D8	5M	JP8	5F
D9	2A	JP9	5G
D11	3A		
IC1E	RB1	1E	
IC1F	RB2	1F	
IC1G	RB3	1K	
IC1I	RB4	1K	
IC1J	RB5	1L	
IC1K	RB6	1M	
IC1L	RB7	2C	
IC2A	RB8	2J	
IC2B	RB9	3I	
IC2C	S1	1A	
IC2D	S2	2I	
IC2E	S3	3A	
IC2F	S4	4A	
IC2G			
IC2H			
IC2J	TP1	2D	
IC2K	TP2	2M	
IC2L	TP3	3D	
IC2M	TP4	2I	
IC3A	TP5	4I	
IC3B	TP6	4I	
IC3C	TP7	3M	
IC3D	TP8	4I	
IC3E	TP9	4J	
IC3F	TP10	5F	
IC3G	TP11	5I	
IC3H	TP12	5K	
IC3I			
IC3J	TPB1	1A	
IC3K	TPB2	1M	
IC3L	TPB3	5A	
IC3M			
IC4B			
IC4C			
IC4D			
IC4E			
IC4F			
IC4G			
IC4H			
IC4I			
IC4J			
IC4K			
IC4L			
IC4M			
IC5A			
IC5B			
IC5C			
IC5D			
IC5E			
IC5F			
IC5G			
IC5H			
IC5I			
IC5J			
IC5K			
IC5L			
IC5M			

1-606-682-13 COMPONENT SIDE

1-606-682-13

RB1, 2, 3, 4, 5, 6, 7, 8, 9

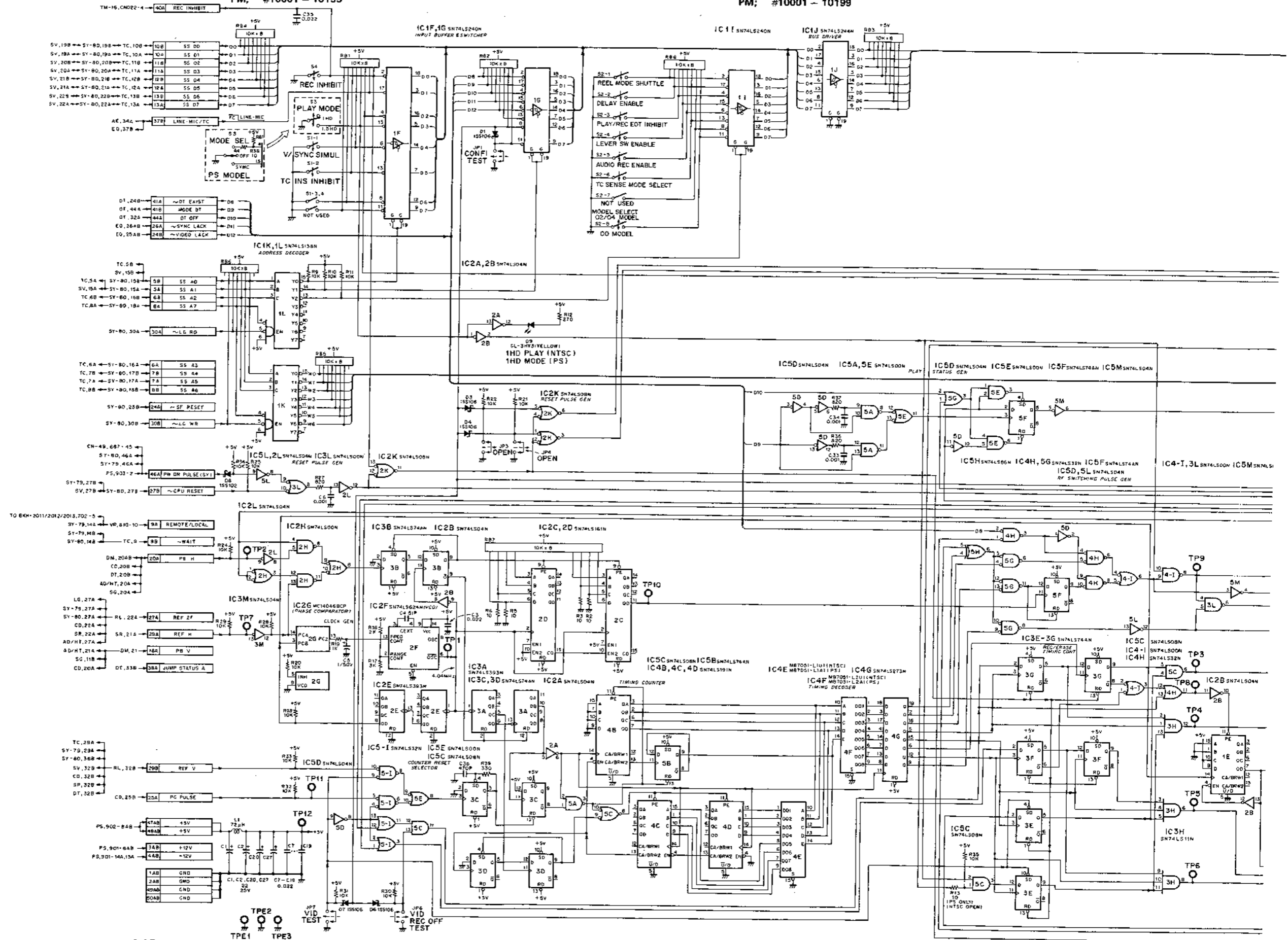


LG-02 BOARD
Logic

CARD RACK LG-02 LG-02 CARD RACK

J; #10001 - 12299
U/C; #10001 - 12499
PS; #10001 - 12299
PM; #10001 - 10199

J; #10001 - 12299
U/C; #10001 - 12499
PS; #10001 - 12299
PM; #10001 - 10199

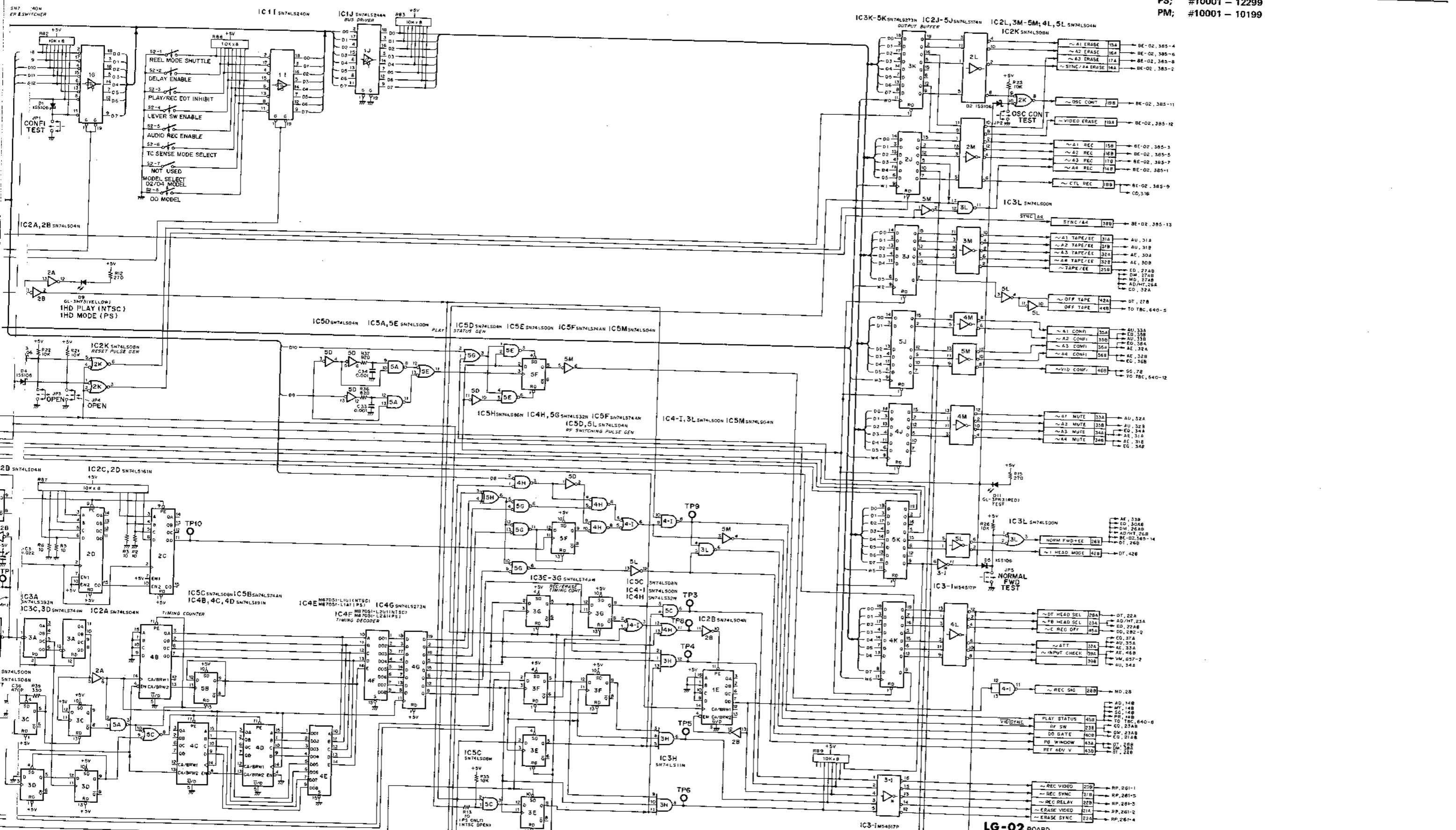


C-37

C-38

J; #10001 - 12299
U/C; #10001 - 12499
PS; #10001 - 12299
PM; #10001 - 10199

J; #10001 - 12299
U/C; #10001 - 12499
PS; #10001 - 12299
PM; #10001 - 10199



C-38

LG-02 BOARD
 BOARD NO. 1-606-682-11,12,13
 BVH-2000(J); # 10001-12299
 BVH-2000(U/C); # 10001-12499
 BVH-2000PS; # 10001-12299
 BVH-2000PM; # 10001-10199

C-39

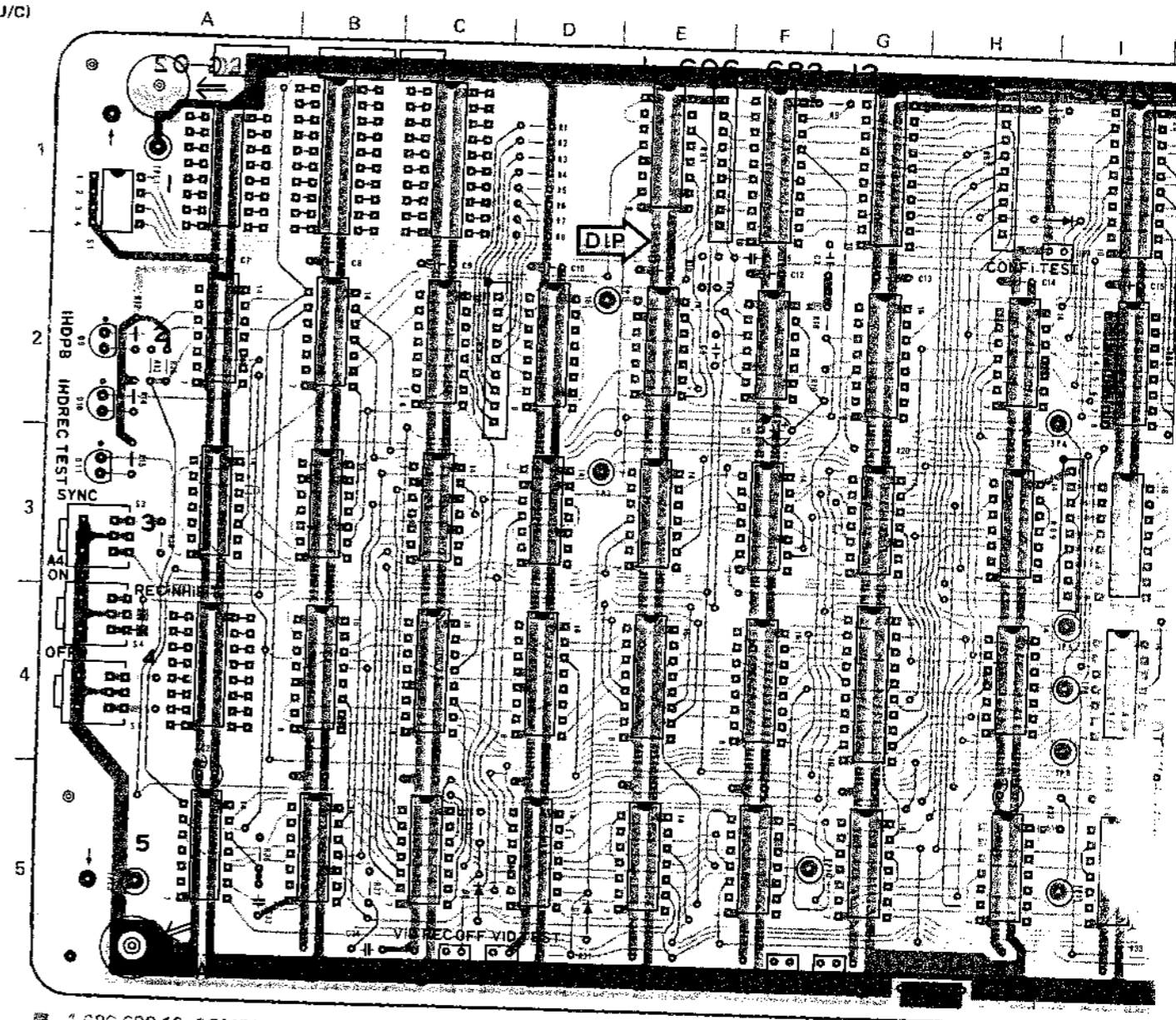
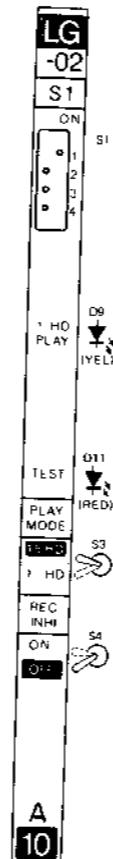
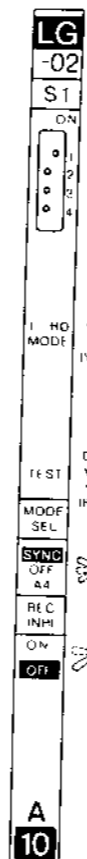
LG-02(A) BOARD (1-606-682-13)

Component Side

J; #22301 -
U/C; #22501 -
PS; #22301 -
PM; #20201 -

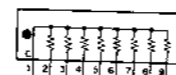
BVH-2000PS

BVH-2000(J, U/C)
BVH-2000PM



1-606-682-13 COMPONENT SIDE

RB1, 2, 3, 4, 5, 6, 7, 8, 9

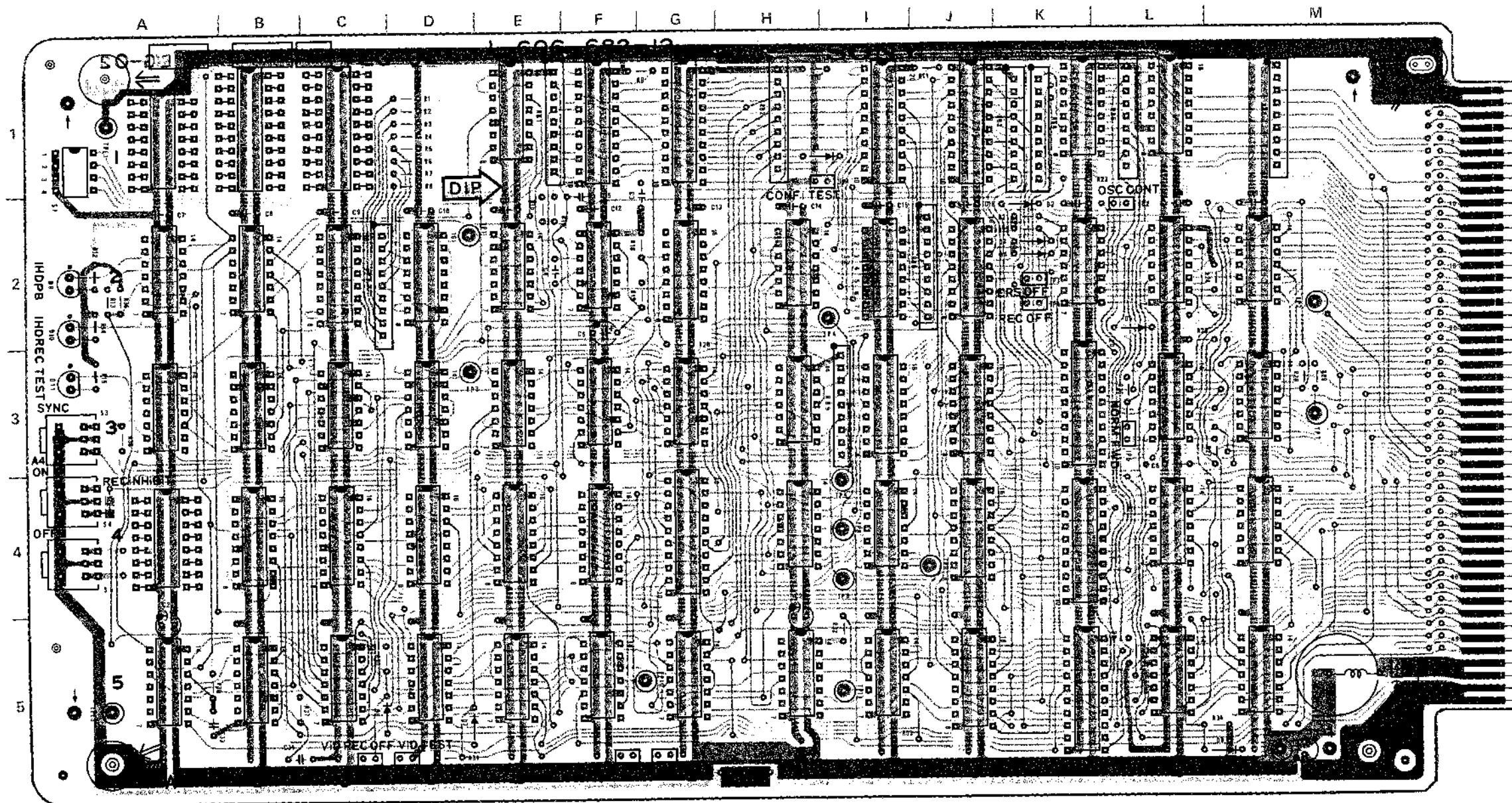


J; #22301 -
 U/C; #22501 -
 PS; #22301 -
 PM; #20201 -

CARD RACK LG-02(A) LG-02(A) CARD RACK

J; #22301 -
 U/C; #22501 -
 PS; #22301 -
 PM; #20201 -

1-2 O(J, U/C)
 1-2 OPM



LG-02(A) (1-606-682-13 & UP)

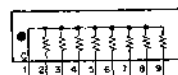
BVH-2000 (J, U/C)
 BVH-2000PS
 BVH-2000PM

D1	1H	JP1	1H
D2	2K	JP2	2L
D3	2K	JP3	2K
D4	2K	JP4	2K
D5	2L	JP5	3L
D6	5C	JP6	5C
D7	5D	JP7	5D
D8	5M	JP8	5F
D9	2A	JP9	5G
D11	3A		
IC1E		RB1	1E
IC1F		RB2	1H
IC1G		RB3	1K
IC1H		RB4	1K
IC1I		RB5	1L
IC1J		RB6	1M
IC1K		RB7	2C
IC1L		RB8	2J
IC2A		RB9	3I
IC2B			
IC2C		S1	1A
IC2D		S2	2I
IC2E		S3	3A
IC2F		S4	4A
IC2G			
IC2H		TP1	2D
IC2I		TP2	2H
IC2J		TP3	3D
IC2K		TP4	2I
IC2L		TP5	4I
IC3A		TP6	4I
IC3B		TP7	3M
IC3C		TP8	4I
IC3D		TP9	4J
IC3E		TP10	5F
IC3F		TP11	5I
IC3G		TP12	5M
IC3H			
IC3I		TPE1	1A
IC3J		TPE2	1M
IC3K		TPE3	5A
IC3L			
IC3M			
IC4B			
IC4C			
IC4D			
IC4E			
IC4F			
IC4G			
IC4H			
IC4I			
IC4J			
IC4K			
IC4L			
IC4M			
IC5A			
IC5B			
IC5C			
IC5D			
IC5E			
IC5F			
IC5G			
IC5H			
IC5I			
IC5J			
IC5K			
IC5L			
IC5M			

1-606-682-13 COMPONENT SIDE

1-606-682-13

RB1, 2, 3, 4, 5, 6, 7, 8, 9



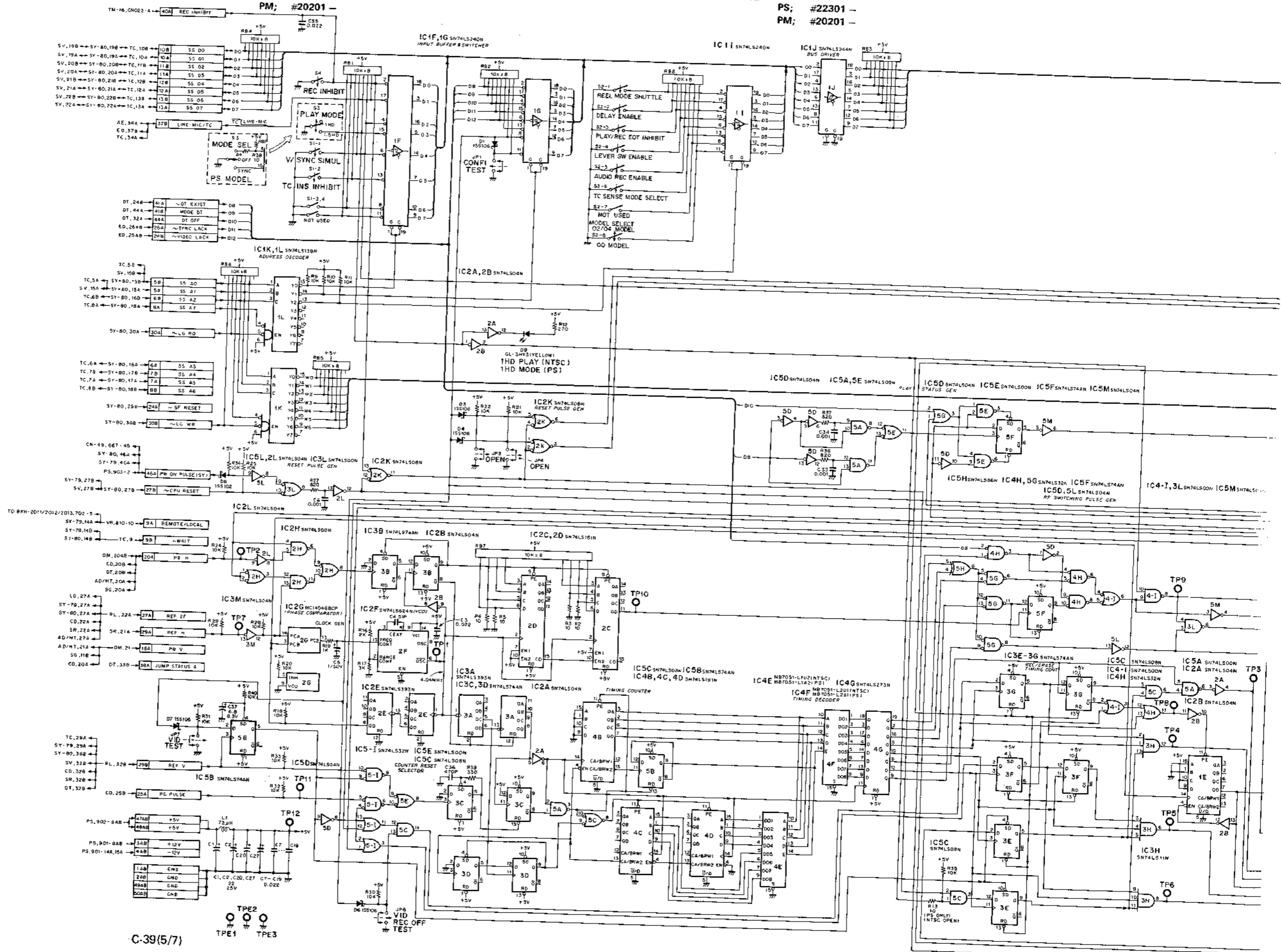
LG-02(A) BOARD
Logic

CARD RACK LG-02(A)

LG-02(A) CARD RACK

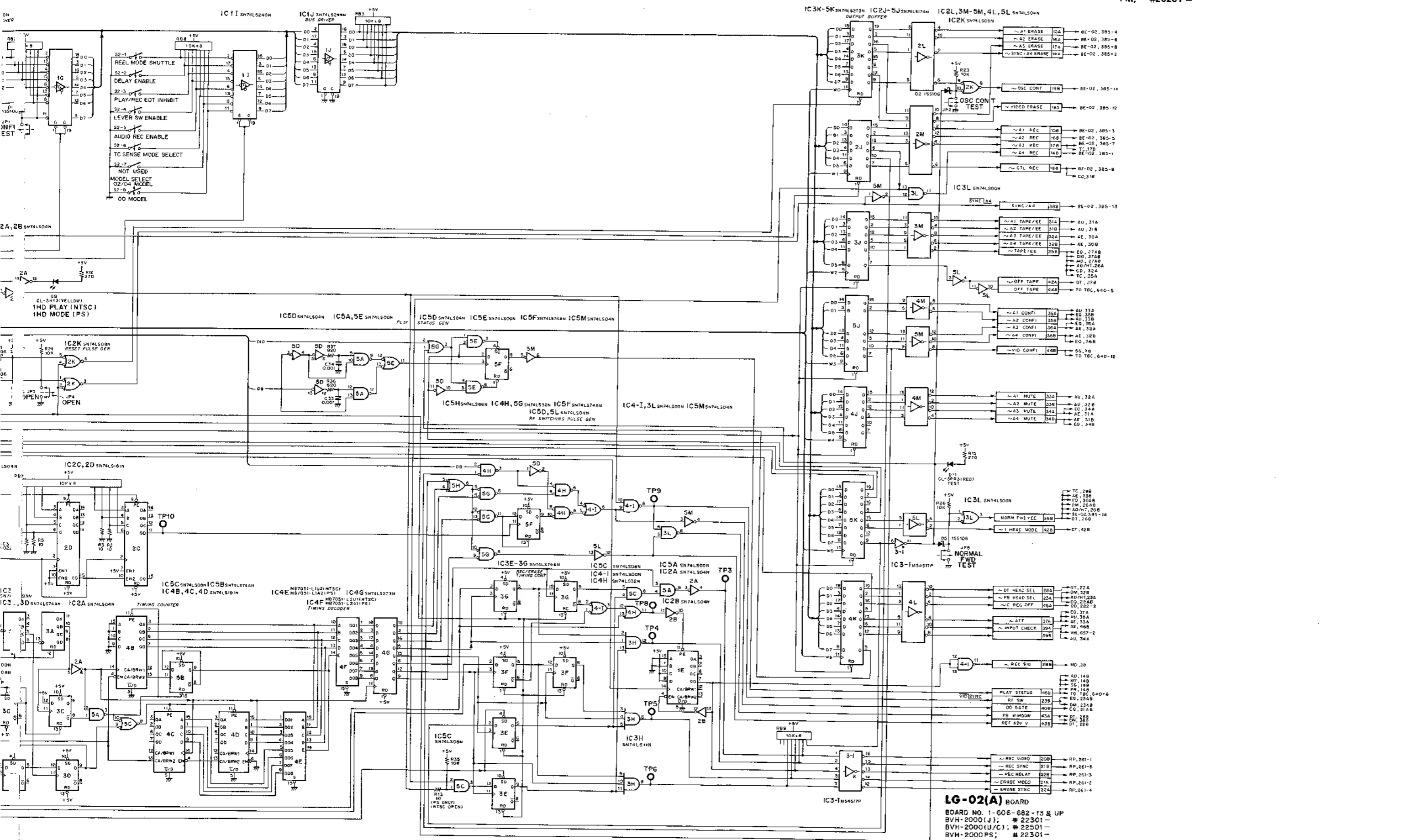
J; #22301 -
U/C; #22501 -
PS; #22301 -
PM; #20201 -

J; #22301 -
U/C; #22501 -
PS; #22301 -
PM; #20201 -



C-39(5/7)

C-39(6/7)



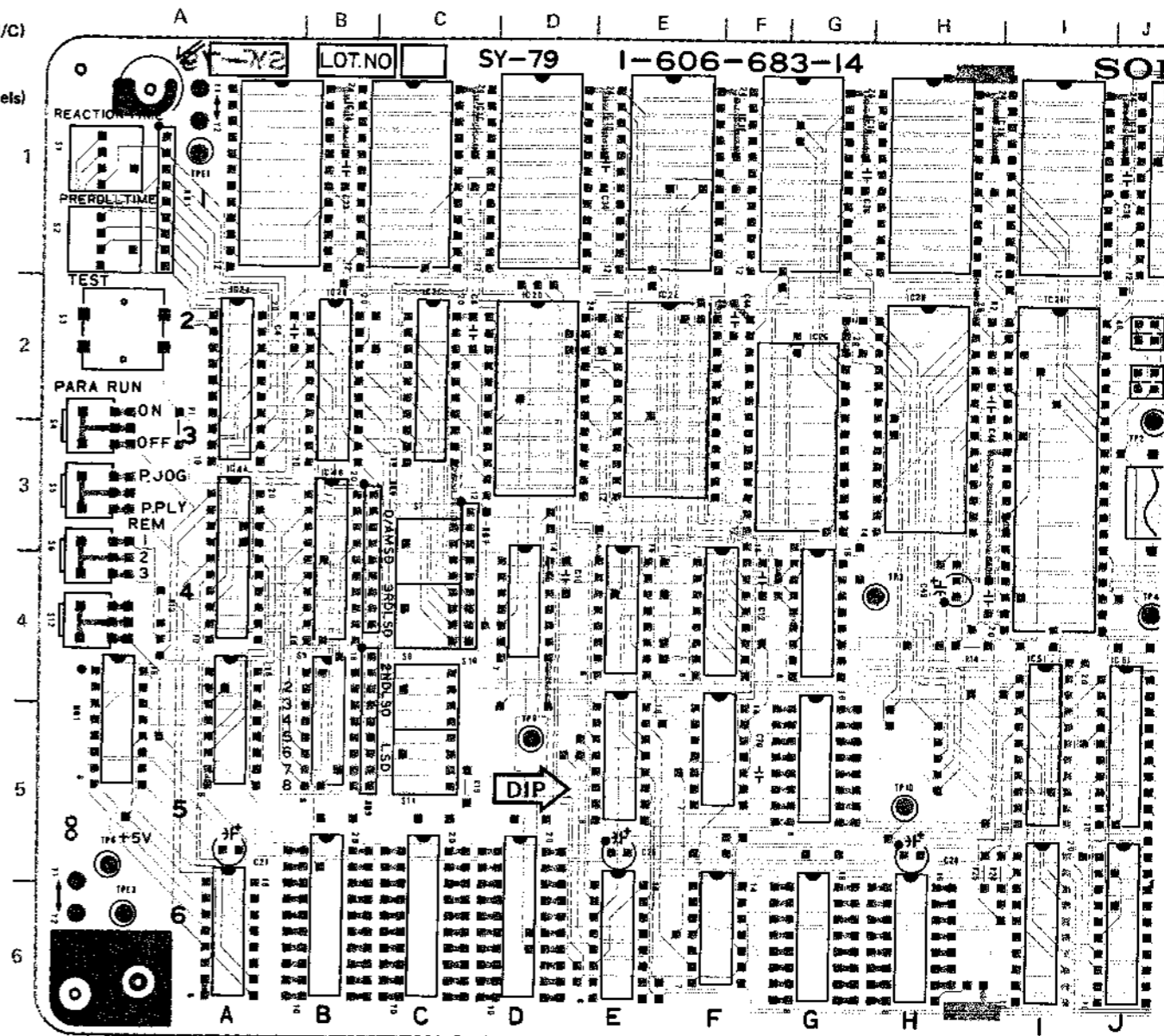
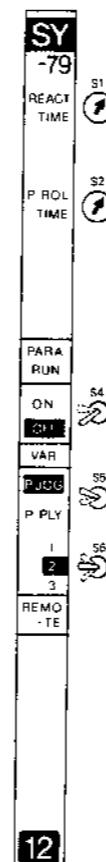
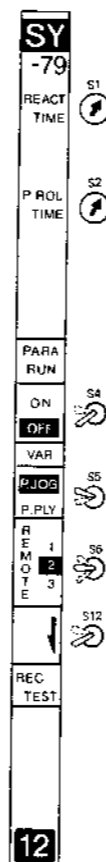
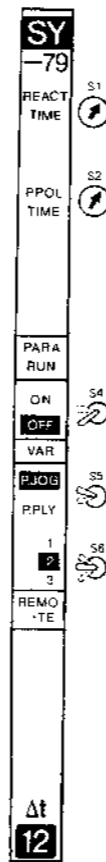
LG-02(A) BOARD
 BOARD NO. 1-606-682-13 & UP
 BVH-2000(J); # 22301 -
 BVH-2000(U/C); # 22501 -
 BVH-2000(PS); # 22301 -
 BVH-2000(PM); # 20201 -

SY-79 BOARD (1-606-683-14)
Component Side

BVH-2500(J, U/C)

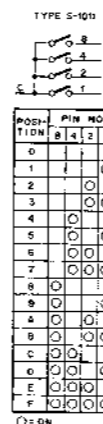
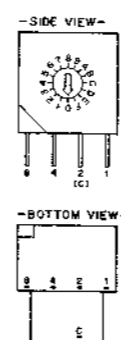
BVH-2000(J, U/C)
BVH-2000PS
(for 00 model)

BVH-2000(J, U/C)
BVH-2000PS
BVH-2000PM
(for 02/04 models)

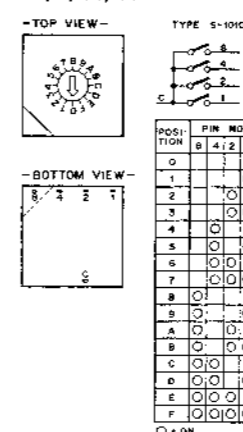


1-606-683-14 COMPONENT SIDE

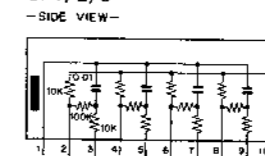
S1, 2



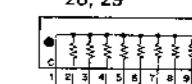
S7, 8, 10, 11



CP1, 2, 3



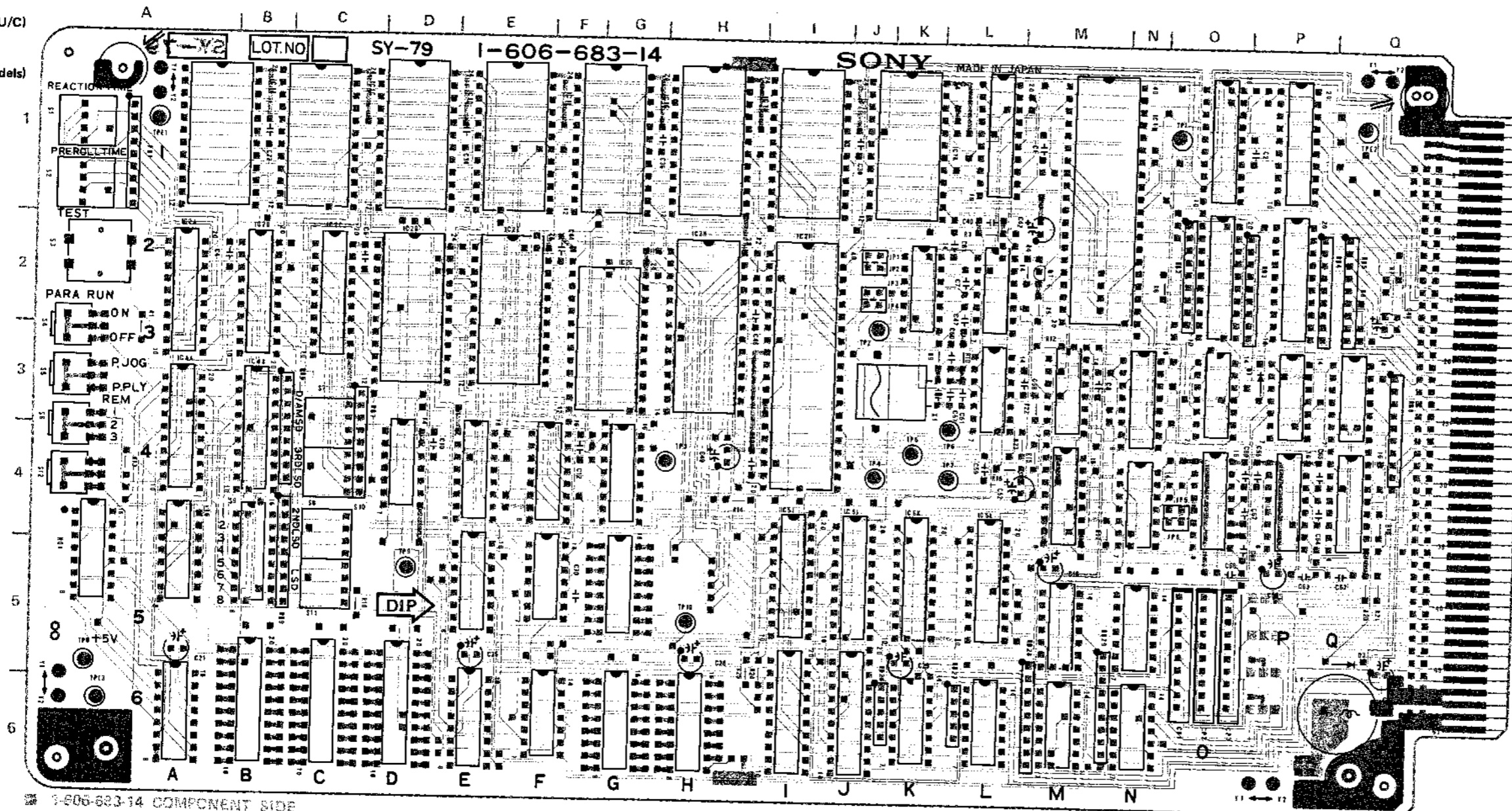
RB1, 2, 3, 5, 6, 7, 8, 9, 28, 29



RB26, 27



U/C) BVH-2000(J, U/C)
 BVH-2000PS
 BVH-2000PM
 (for 02/04 models)



SY-79 (1-606-683-14 & DF)

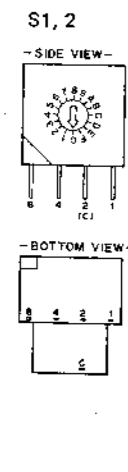
BVH-2000 (J, U/C)
 BVH-2000PS
 BVH-2000PM
 BVH-2500 (J, U/C)

CP1	50	IC6A
CP2	50	IC6E
CP3	5P	IC6F
		IC6I
D1	3P	IC6J
D3	5Q	IC6K
		IC6L
		IC6M
		IC6N
(BVH-2500)		
IC1A		IC6N
IC1C		JP1 2J
IC1D		JP2 2J
IC1E		JP3 2J
IC1G		JP4 2J
IC1H		JP5 40
IC1I		JP6 40
IC1X		
IC1L		ND1 5A
IC1M		
IC1O		
IC1P		Q1 2M
IC2A		RB1 1A
IC2B		RB2 20
IC2C		RB3 2P
IC2D		RB5 2Q
IC2E		RB6 4C
IC2H		RB7 4C
IC2I		RB8 3Q
IC2K		RB9 5C
IC2L		RB26 6K
IC2O		RB27 6L
IC2P		RB28 6M
IC3L		RB29 6N
IC3M		
IC3N		S1 1A
IC3O		S2 1A
IC3P		S3 2A
IC3Q		S4 3A
IC4A		S5 3A
IC4B		S6 4A
IC4D		S7 4C
IC4E		S8 4C
IC4F		S9 5C
		S10 5C
		S11 5C
(BVH-2500)		
IC4G		
		(00 MODEL)
IC4M		S12 4A
IC4O		
IC4P		TP1 1Q
IC4Q		TP2 2J
IC5A		TP3 4H
IC5E		TP4 4J
IC5F		TP5 4K
IC5I		TP6 4L
IC5J		TP7 5A
IC5K		TP8 5A
IC5L		TP9 5D
IC5M		TP10 5H
IC5N		
		TPR1 1A
		TPE2 1Q
		TPE3 6A
		X1 3L

BVH-2000/PS/PM C-40 C-41 C-42

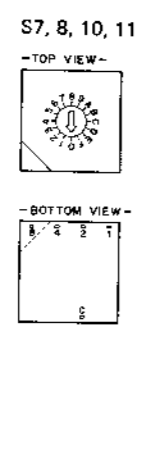
1-606-683-14 COMPONENT SIDE

1-606-683-14 SOLDER SIDE



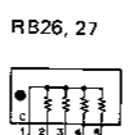
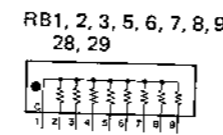
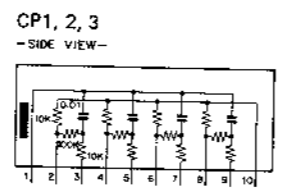
TYPE S-10H

POSITION	PIN NO
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40



TYPE S-10H

POSITION	PIN NO
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
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37	37
38	38
39	39
40	40

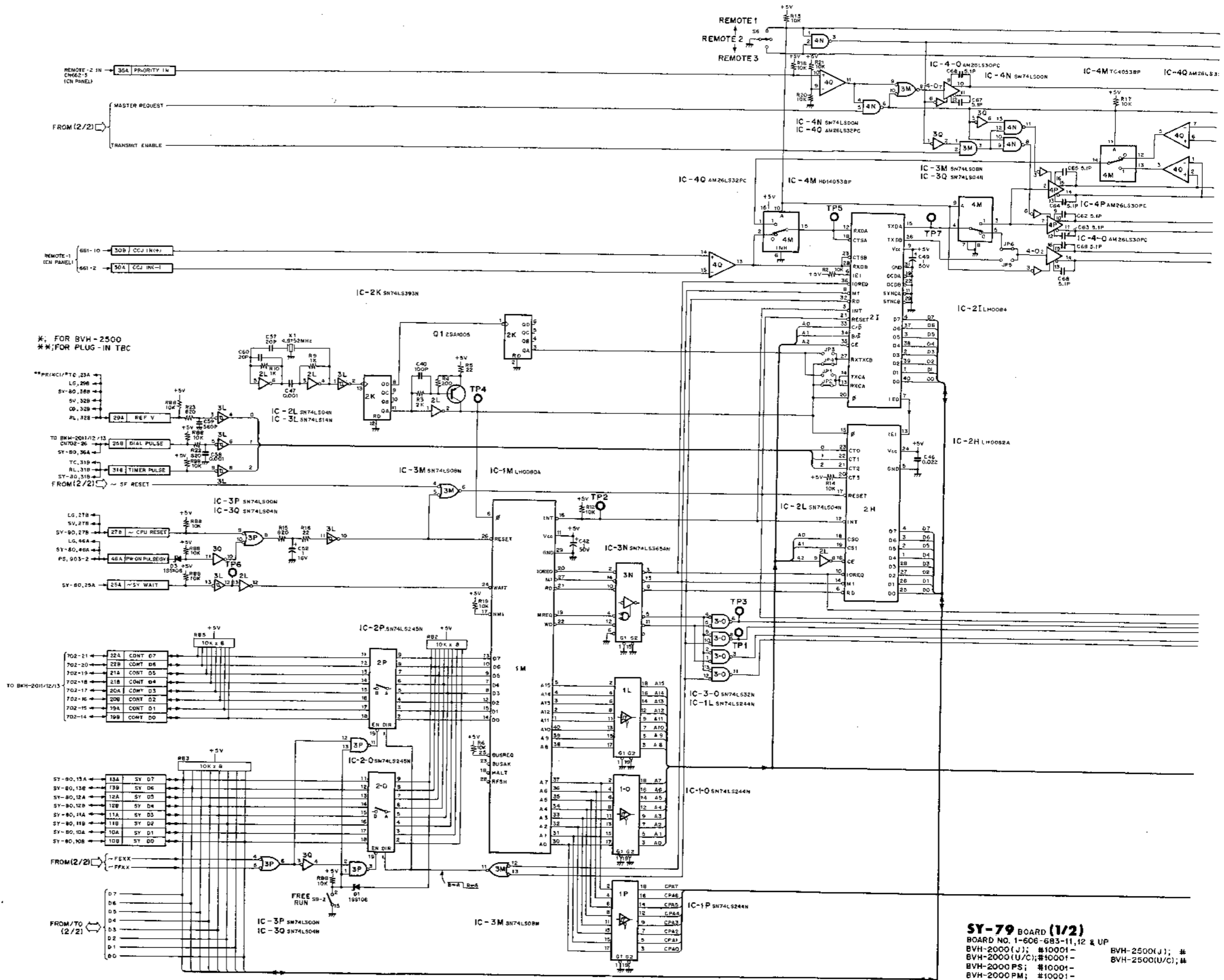


C-41

C-42

BVH-2500 C-76 C-77 C-78

SY-79 BOARD (1/2)
System Control CPU-1

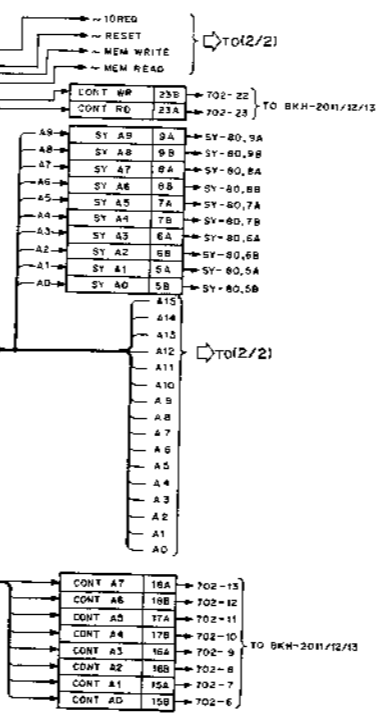
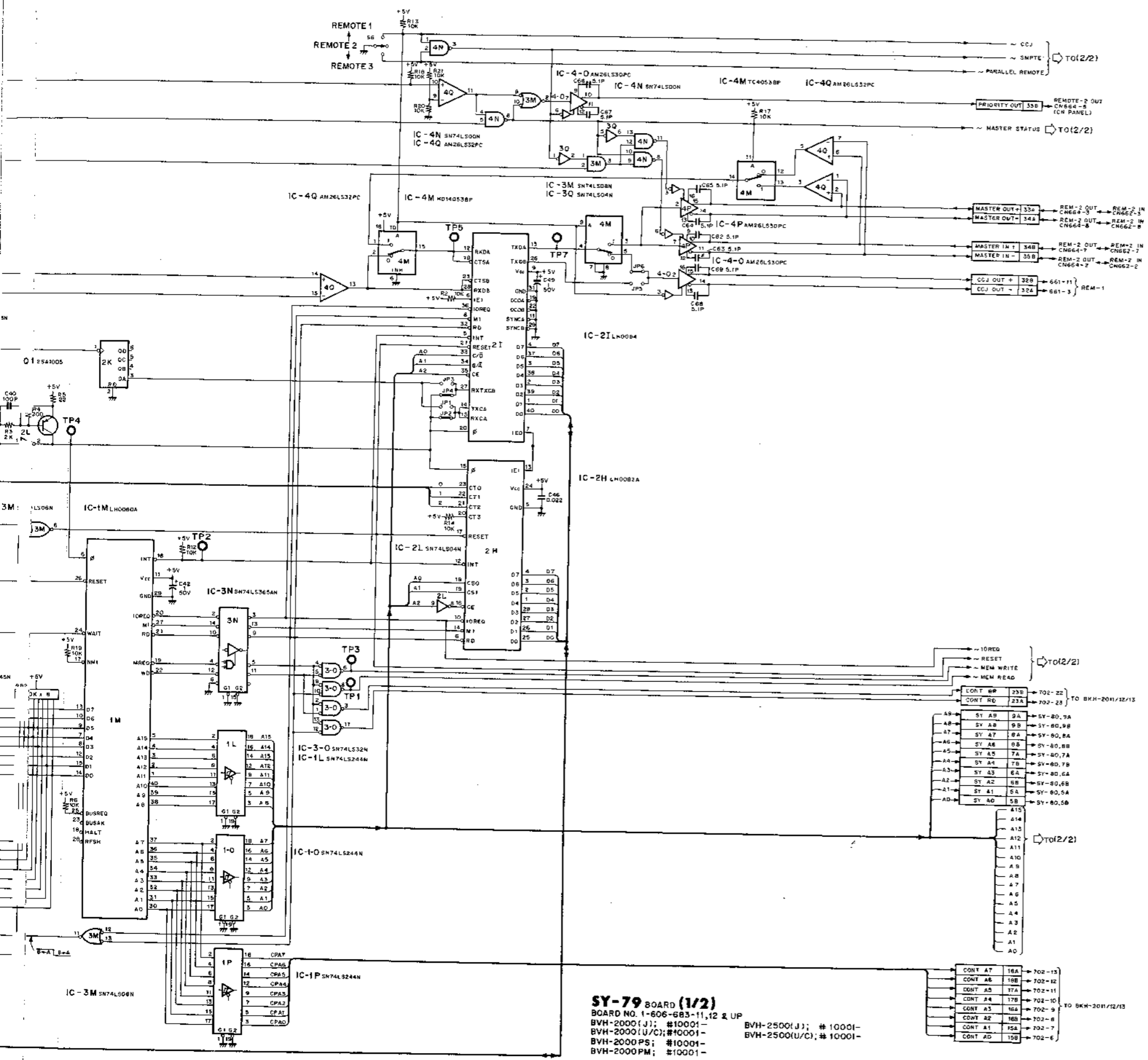


SY-79 BOARD (1/2)
BOARD NO. 1-606-683-11, 12 & UP
BVH-2000 (J); #10001- BVH-2500 (J); #
BVH-2000 (U/C); #10001- BVH-2000 (U/C); #
BVH-2000 PS; #10001- BVH-2500 (U/C); #
BVH-2000 PM; #10001-

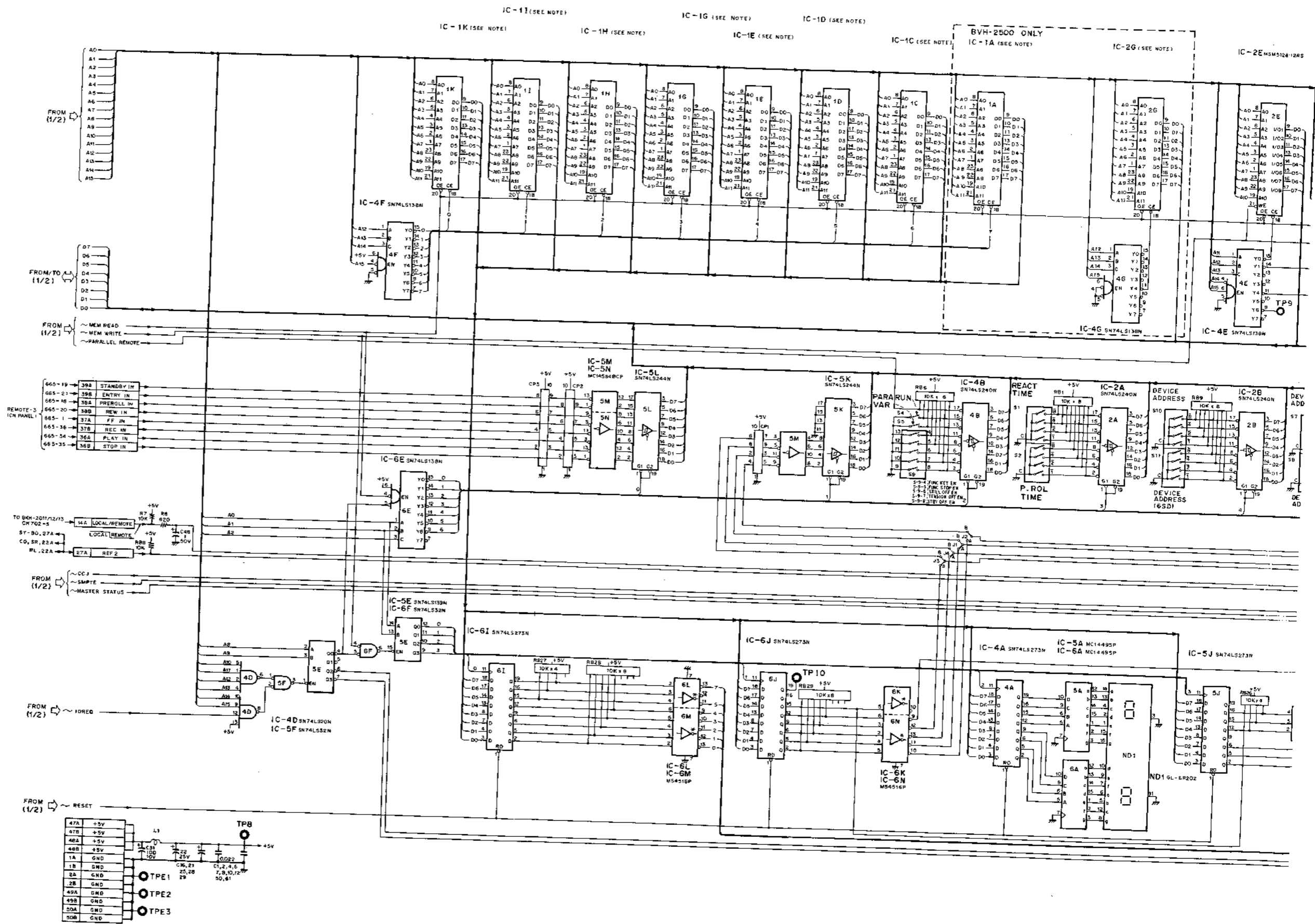
C-45
C-44
C-43
BVH-2000/PS/PM
C-81
C-80
C-79
BVH-2500

C-43

C-44

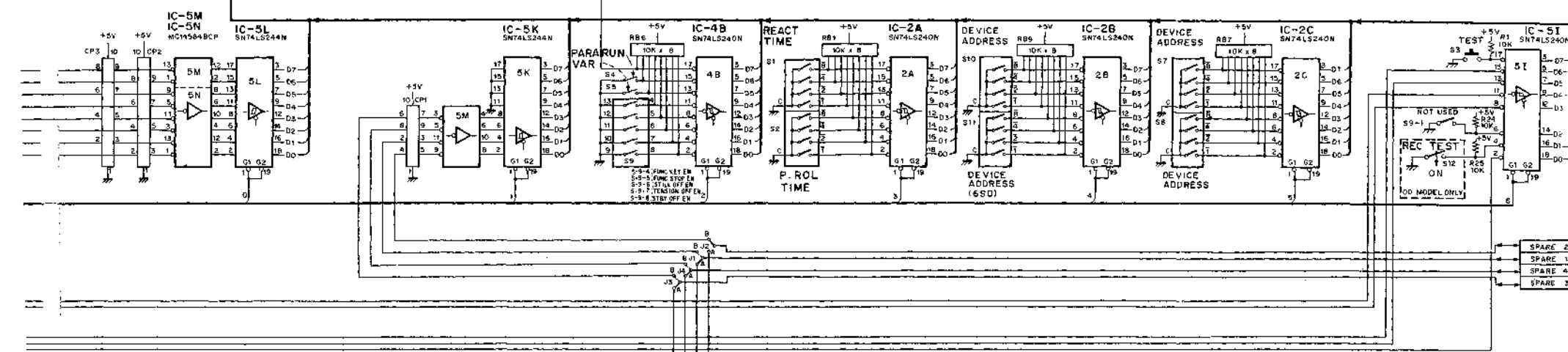
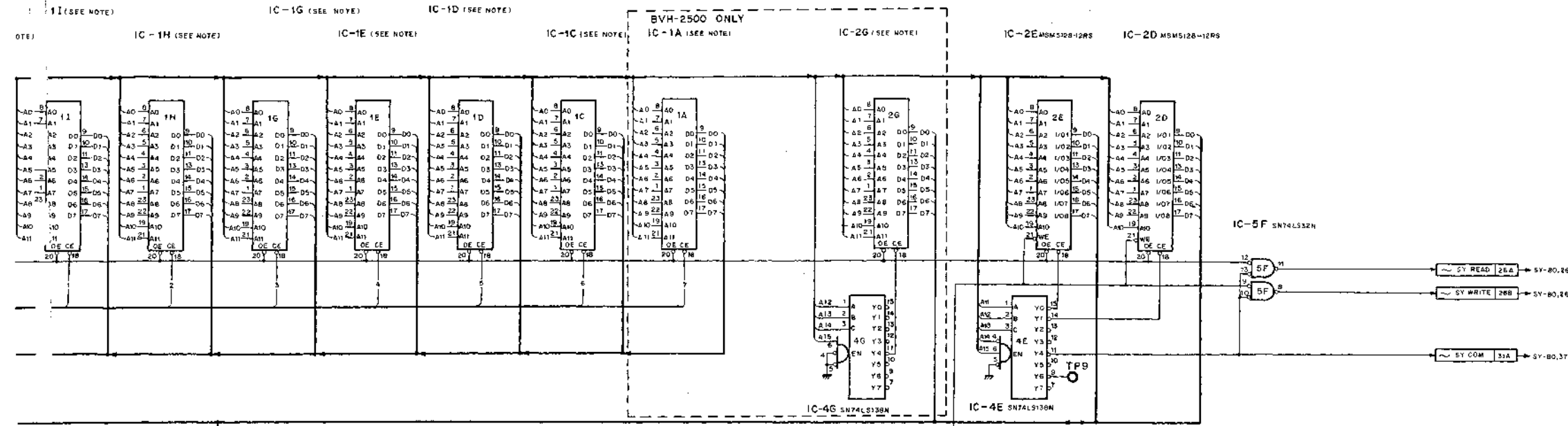


SY-79 BOARD (2/2)
System Control CPU-1



BVH-2000/PS/PM C-49 C-50 C-51

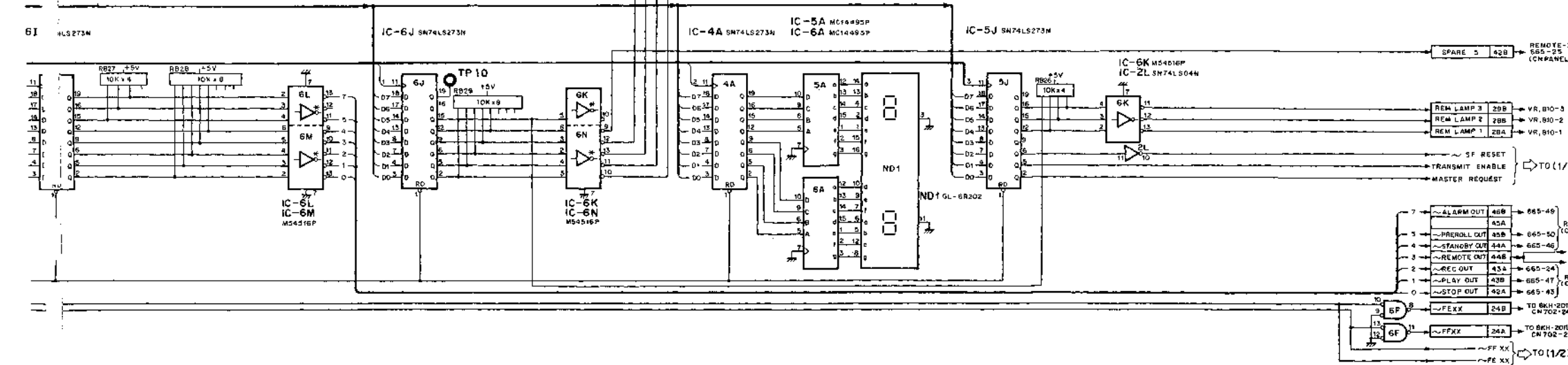
BVH-2500 C-85 C-86 C-87



NOTE: EPROM

REF. No.	TYPE No.
BVH-2000/PS/PM	BVH-2500
IC-1A	NOT USED
IC-1C	MBM2732-7503-3
IC-1D	MBM2732-7503-2
IC-1E	MBM2732-7403-2
IC-1G	MBM2732-7303-3
IC-1H	MBM2732-7203-1
IC-1I (USBD)	MBM2732-7103-1
IC-1I (ESJ)	MBM2732-71A3-1
IC-1I (EM)	MBM2732-71B3-1
IC-1K	MBM2732-7003-3
IC-2G	NOT USED

*IC-2C is added to the BVH-2500 with serial No. shown below.
 Japan: #10201 and up
 US/Canada: #10301 and up

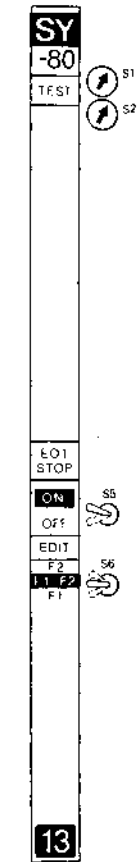


SY-79 BOARD (2/2)
 BOARD NO. 1-606-683-11, 12 & UP

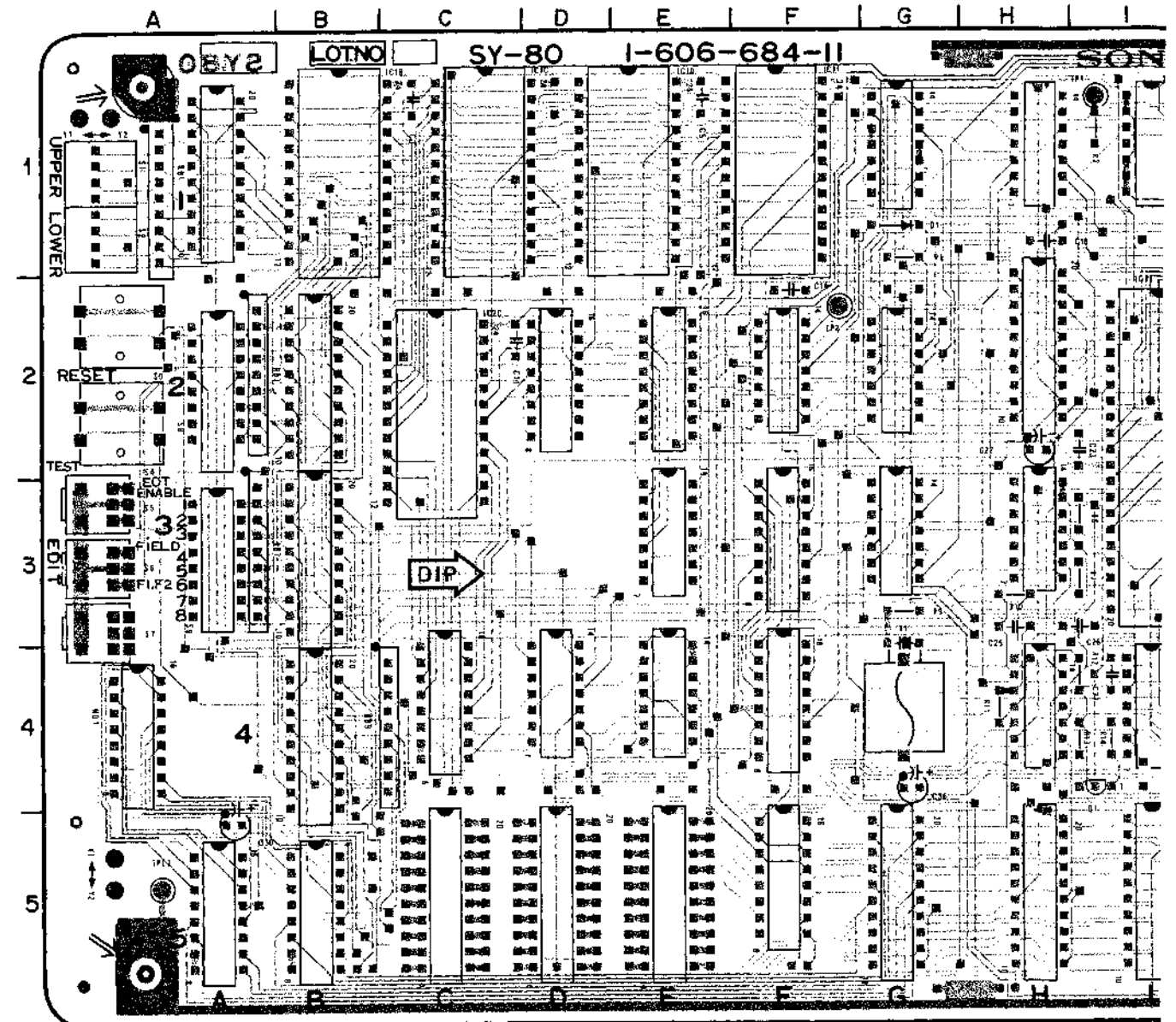
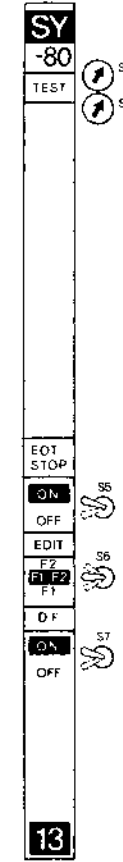
BVH-2000 (J); # 10001-	BVH-2500 (J); # 10001-
BVH-2000 (U/C); # 10001-	BVH-2500 (U/C); # 10001-
BVH-2000 (PS); # 10001-	
BVH-2000 (PM); # 10001-	

SY-80 BOARD (1-606-684-11)
Component Side

BVH-2000PS



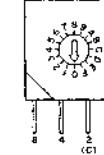
BVH-2000 (J, U/C)



1-606-684-11 COMPONENT SIDE

S1, 2

-SIDE VIEW-



-BOTTOM VIEW-



TYPE S-10H



POSITION	PIN NO
1	1
2	2
3	3
4	4
5	5

RB1, 2, 3, 4, 5, 6, 7, 8, 9





1/4 HOURS

SY-80 TEST

EOT STOP

OFF

EDIT

13

BVH-2000 (J, U/C)

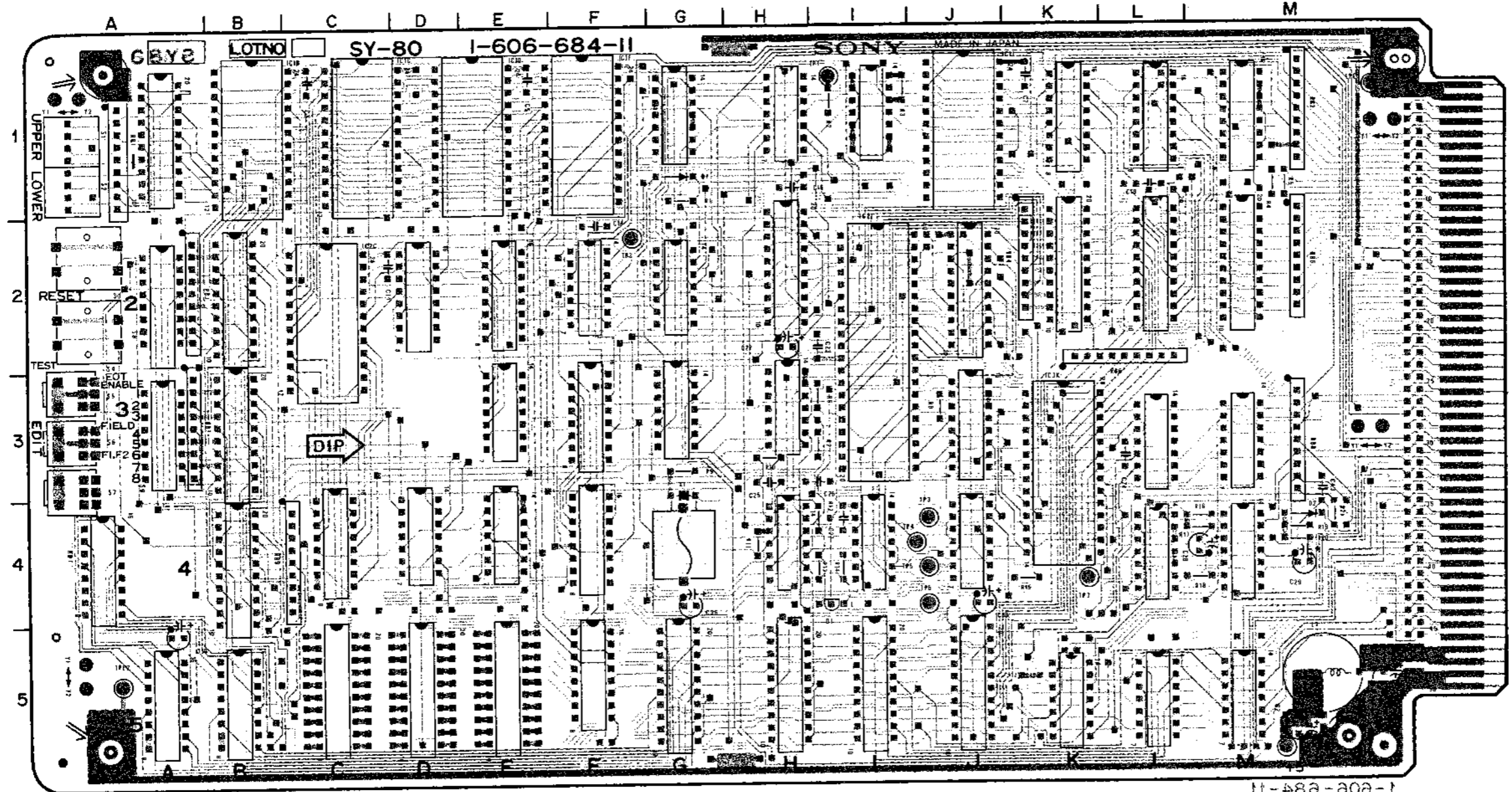
SY-80 TEST

EOT STOP

OFF

EDIT

13

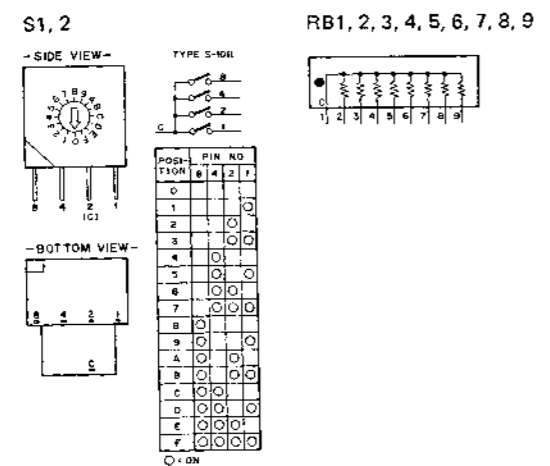


SY-80 (1-606-684-11)

BVH-2000 (J, U/C)	N01	CA
BVH-2000PS	Q1	41
D1	1G	RB1 1A
D2	4M	RB2 1M
IC1A		RB3 2A
IC1B		RB4 2K
IC1C		RB5 2M
IC1F		RB6 2L
IC1G		RB7 3A
IC1H		RB8 3M
IC1I		RB9 4C
IC1J	S1	1A
IC1K	S2	1A
IC1L	S3	2A
IC1M	S4	2A
IC2B	S5	3A
IC2D	S6	3A
IC2E		(NTSC, PM)
IC2F	S7	3A
IC2G		
IC2H		
IC2I	S8	2A
IC2J	S9	3A
IC2K		
IC2L		
IC2M	TP1	1I
IC3B	TP2	2F
IC3E	TP3	4J
IC3F	TP4	4J
IC3G	TP5	4J
IC3H	TP6	4J
IC3J	TP7	4K
IC3K	TP8	5M
IC3L		
IC3M	TPE	1M
IC4B	TPE2	5A
IC4C	TPE3	5M
IC4D		
IC4E	X1	4F
IC4F		
IC4H		
IC4I		
IC4J		
IC4L		
IC4M		
IC5A		
IC5B		
IC5E		
IC5F		
IC5G		
IC5H		
IC5I		
IC5J		
IC5K		
IC5L		
IC5M		

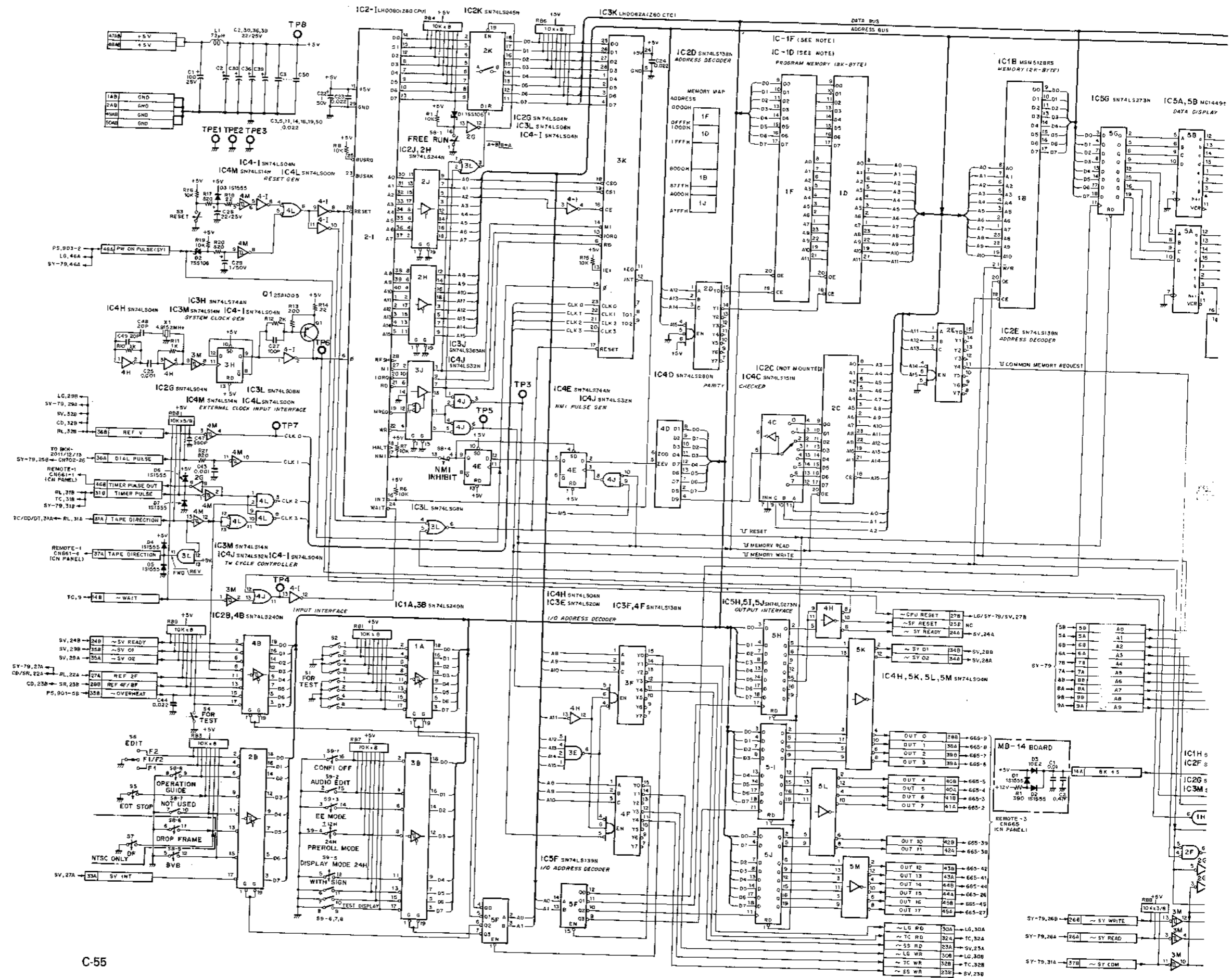
1-606-684-11 COMPONENT SIDE

11-482-202-1



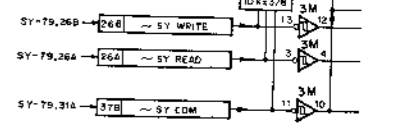
SY-80 BOARD

System Control CPU-2



C-55

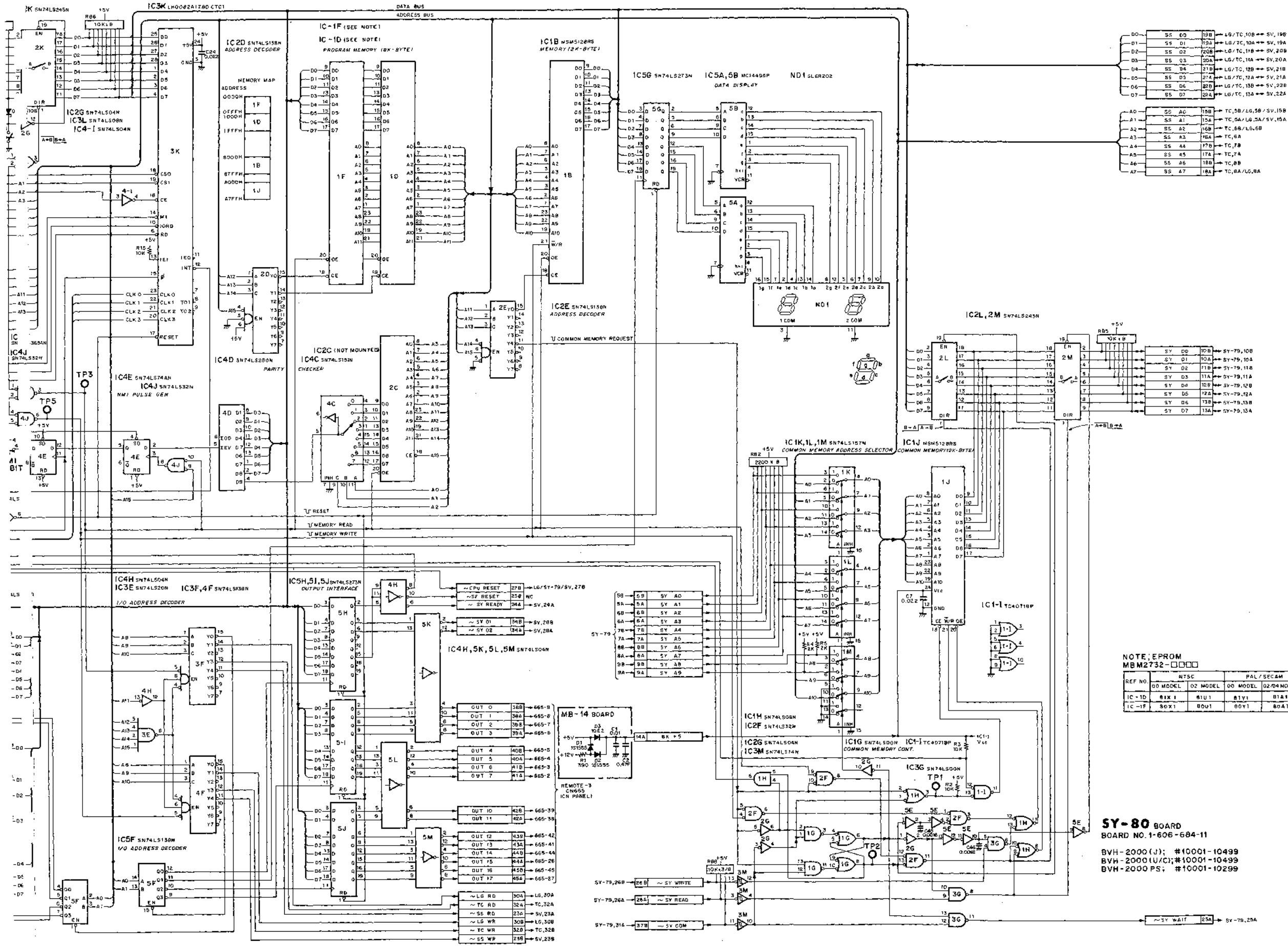
C-56



MB-14 BOARD

~CPU RESET 27B → LG-5V/79/5V, 27B
 ~SF RESET 25B → NC
 ~SY READY 24A → SV, 24A
 ~SY D1 34B → SV, 28B
 ~SY D2 34A → SV, 28A
 ~SY D3 34C → SV, 28C
 ~SY D4 34D → SV, 28D
 ~SY D5 34E → SV, 28E
 ~SY D6 34F → SV, 28F
 ~SY D7 34G → SV, 28G
 ~SY D8 34H → SV, 28H
 ~SY D9 34I → SV, 28I
 ~SY D10 34J → SV, 28J
 ~SY D11 34K → SV, 28K

SY-79, 26B → 26B ~ SY WRITE
 SY-79, 26A → 26A ~ SY READ
 SY-79, 31A → 27B ~ SY COM



NOTE: EPROM
MBM2732-□□□□

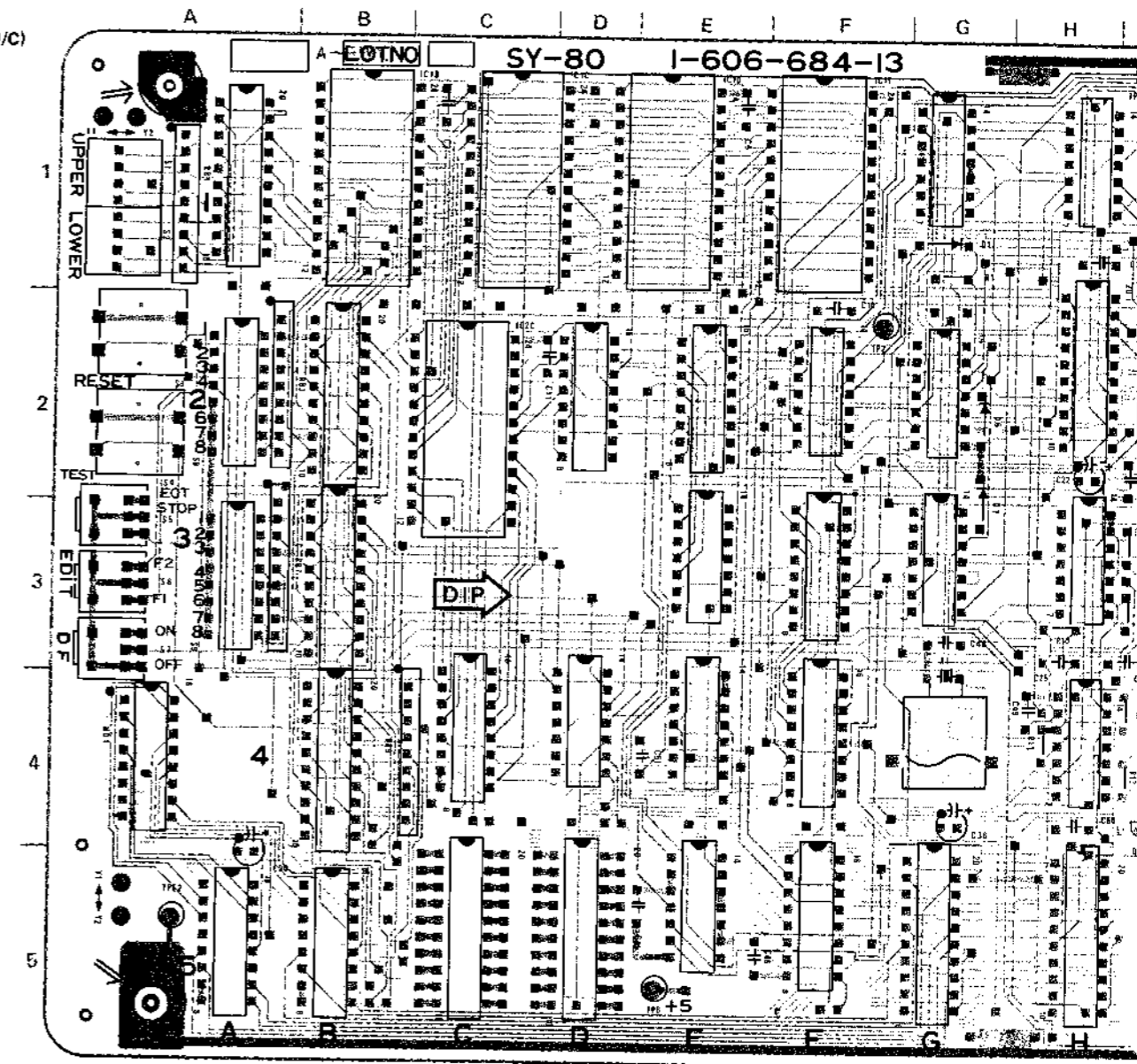
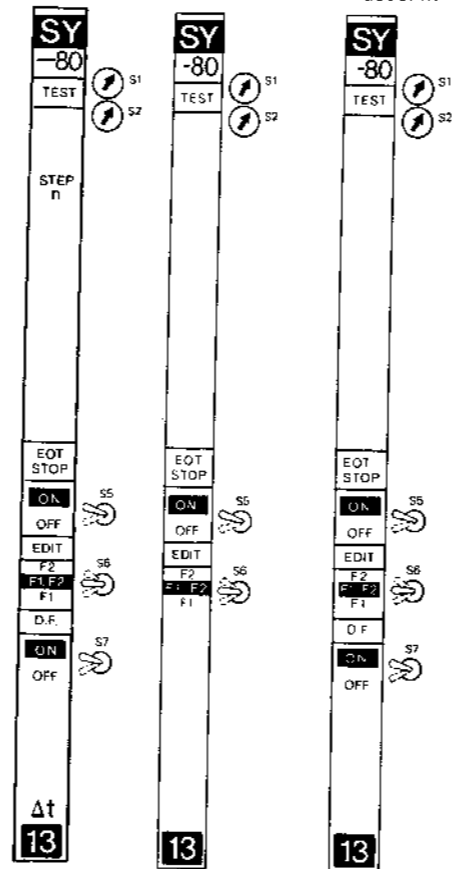
REF NO.	00 MODEL	01 MODEL	02 MODEL	03 MODEL	04 MODEL
IC-1D	81X 1	81U 1	81V 1	81A 1	
IC-1F	80X 1	80U 1	80V 1	80A 1	

SY-80 BOARD
BOARD NO. 1-606-684-11

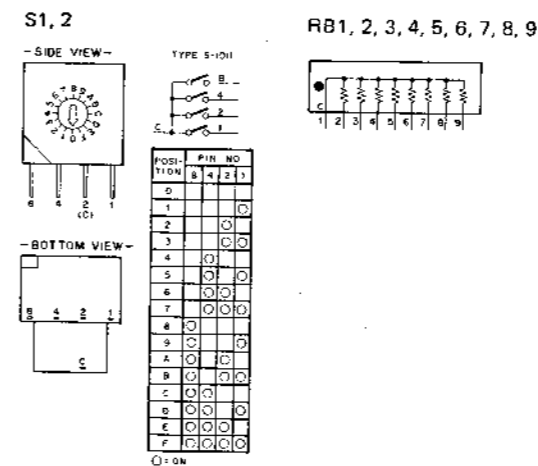
BVH-2000 (J); #10001-10499
BVH-2000 (U/C); #10001-10499
BVH-2000 (S); #10001-10299

SY-80 BOARD (1-606-684-13)
Component Side

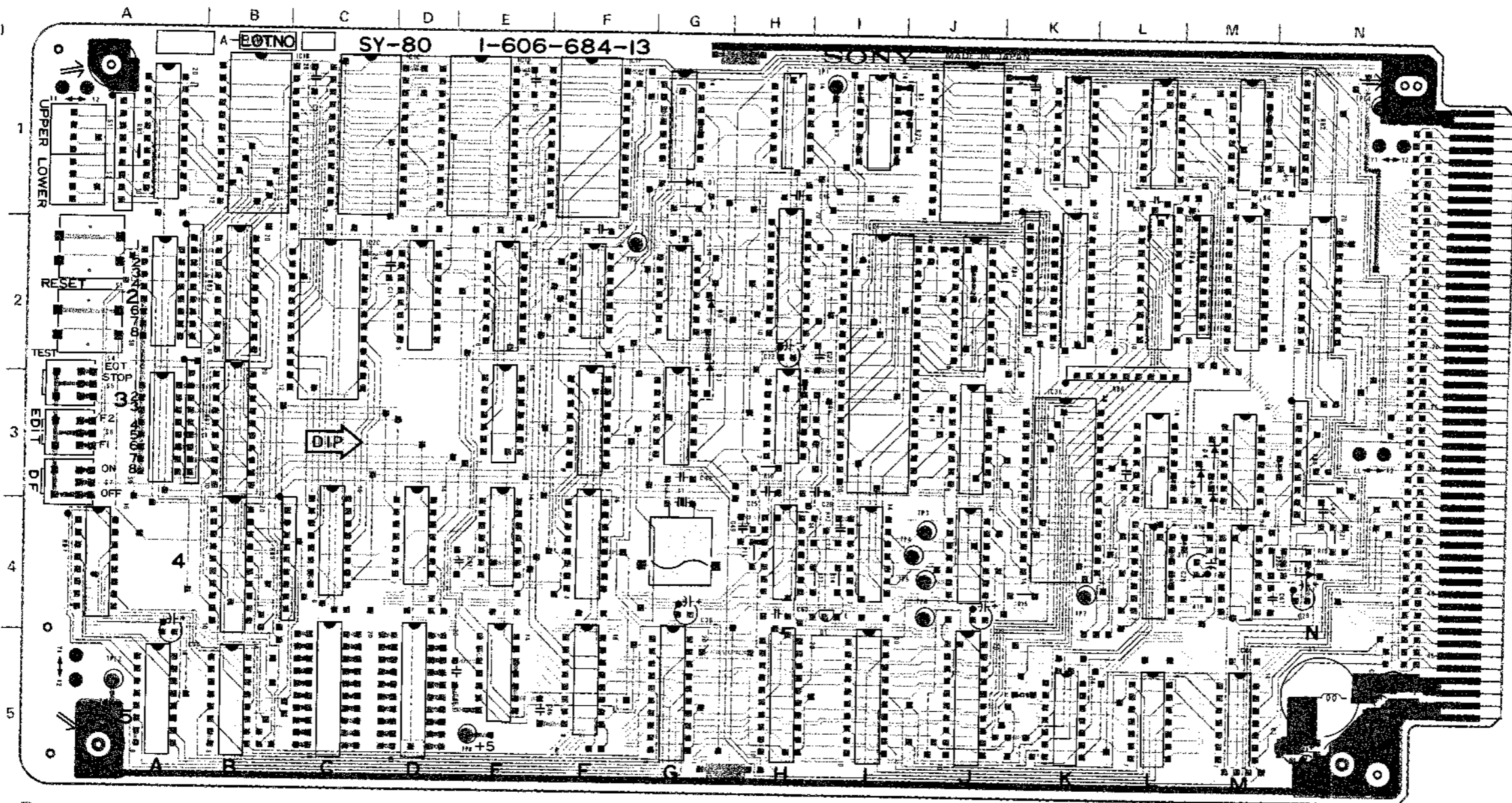
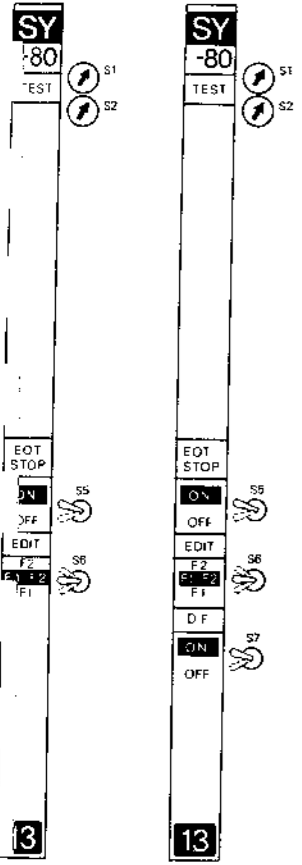
BVH-2500(J, U/C) BVH-2000PS
BVH-2000(J, U/C) BVH-2000PM



1-606-684-13 COMPONENT SIDE



3) 7H-2000PS BVH-2000(J, U/C)
BVH-2000PM



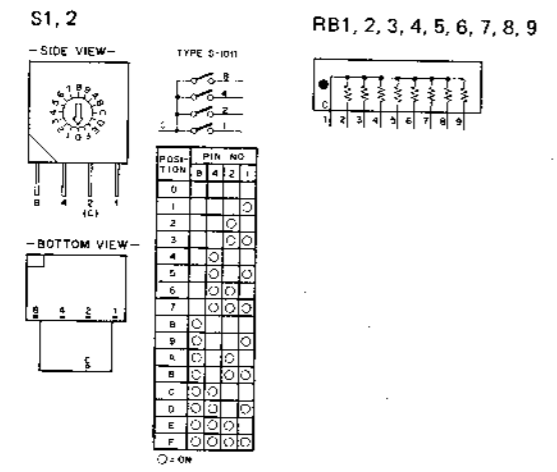
SY-80 (1-606-684-13 & UPT)

BVH-2000(J, U/C)
BVH-2000PS
BVH-2000PM
BVH-2500(J, U/C)

D1	1G	ND1	4A
D2	4K	Q1	4I
D3	3M		
(BVH-2500)			
D4	3M	RB1	1A
D5	3M	RB2	1M
D6	2G	RB3	2A
D7	3G	RB4	2K
		RB5	2M
		RB6	2L
IC1A		RB7	3A
IC1B		RB8	3M
		RB9	4C
(BVH-2500)			
IC1C		S1	1A
		S2	1A
IC1D		S3	2A
IC1F		S4	2A
IC1G		S5	3A
IC1H		S6	3A
IC1I			
IC1J			
IC1K			
IC1L			
IC1M		S8	2A
IC2B		S9	3A
IC2D			
IC2E		TP1	1I
IC2F		TP2	2F
IC2G		TP3	4J
IC2H		TP4	4J
IC2I		TP5	4J
IC2J		TP6	4J
IC2K		TP7	4K
IC2L		TP8	5E
IC2M			
IC2N		TPE1	1M
IC3B		TPE2	5A
IC3E		TPE3	5M
IC3F			
IC3G		X1	4G
IC3R			
IC3J			
IC3K			
IC3L			
IC3M			
IC4B			
IC4C			
IC4D			
IC4E			
IC4F			
IC4R			
IC4I			
IC4J			
IC4L			
IC4M			
IC5A			
IC5B			
IC5E			
IC5F			
IC5G			
IC5H			
IC5I			
IC5J			
IC5K			
IC5L			
IC5M			

1-606-684-13 COMPONENT SIDE

1-606-684-13



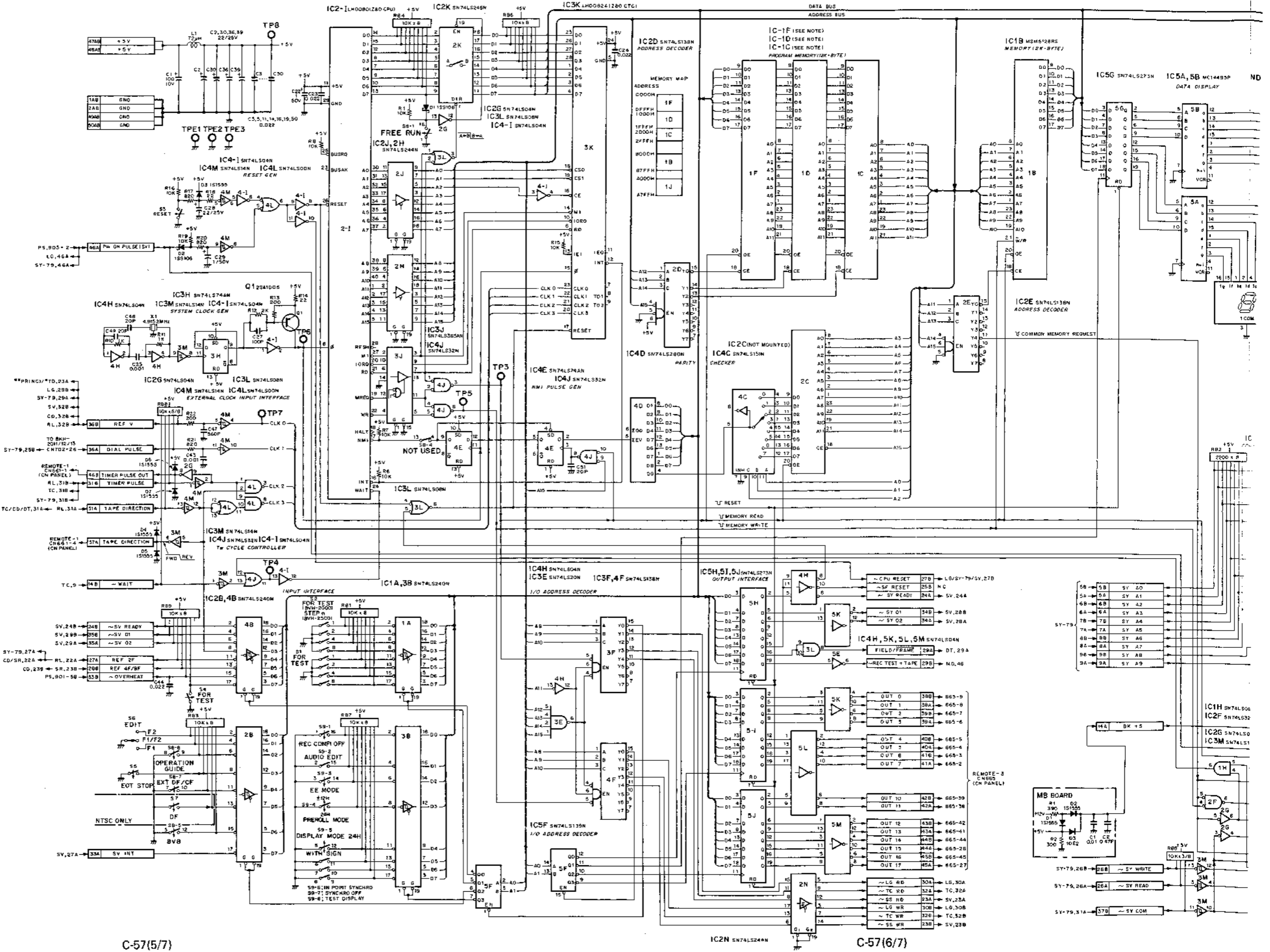
C-57(3/7)

C-57(4/7)

BVH-2500 C-88 C-89 C-90 C-57(2/7) C-57(3/7) C-57(4/7)

SY-80 BOARD
System Control CPU-2

BVH-2000/PS C-57(5/7) C-57(6/7) C-57(7/7)



C-57(5/7)

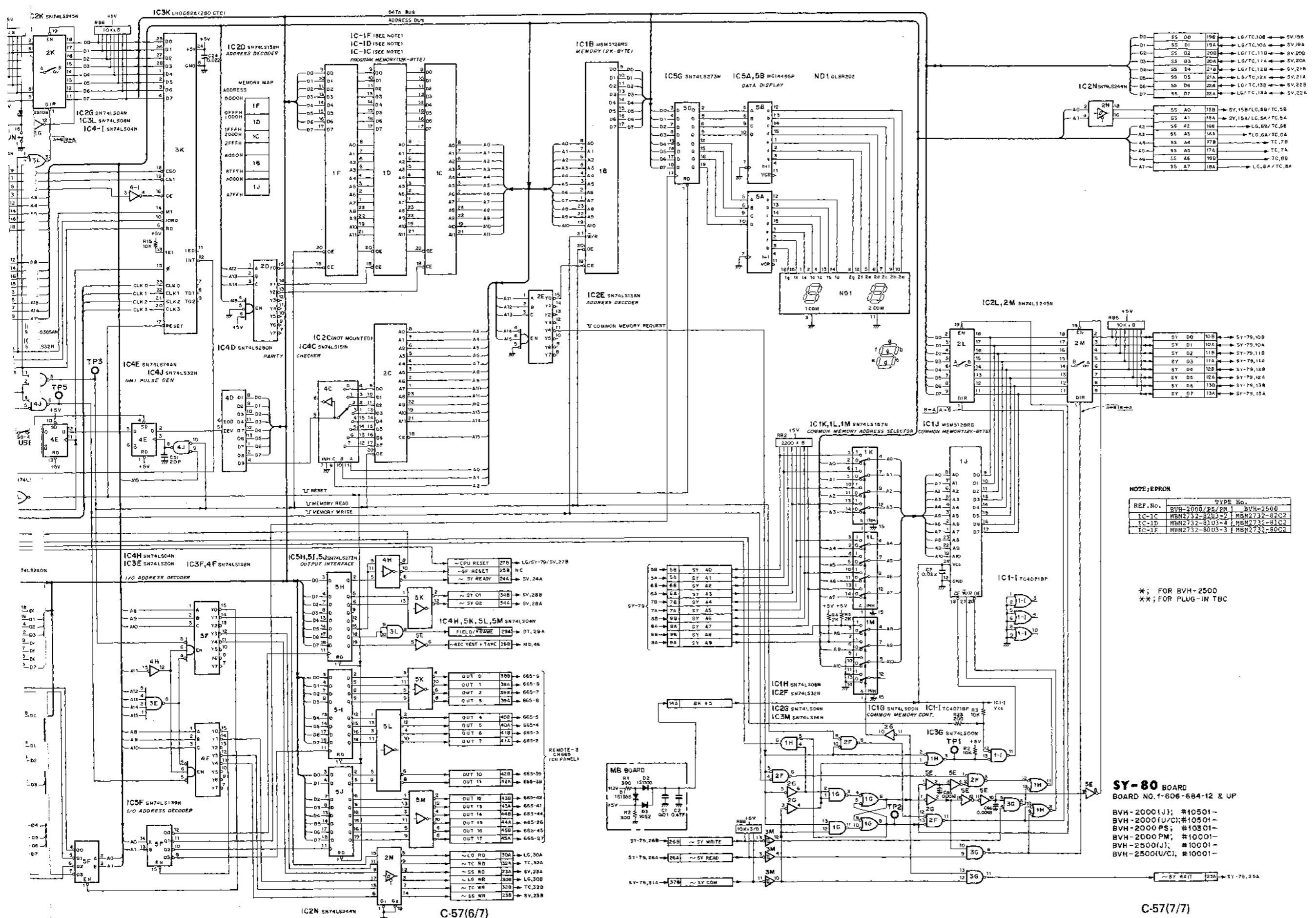
C-57(6/7)

C-93

C-92

C-91

BVH-2500



NOTE: EPROM

REF. NO.	TYPE No.
BVH-2000/PS/PM	BVH-2500
IC-1C	MBM2732-8A13-2 MBM2732-8C2
IC-1D	MBM2732-8103-4 MBM2732-81C2
IC-1F	MBM2732-8003-3 MBM2732-80C2

*: FOR BVH-2500
 **: FOR PLUG-IN TBC

SY-80 BOARD
 BOARD NO. 1-606-684-12 & UP

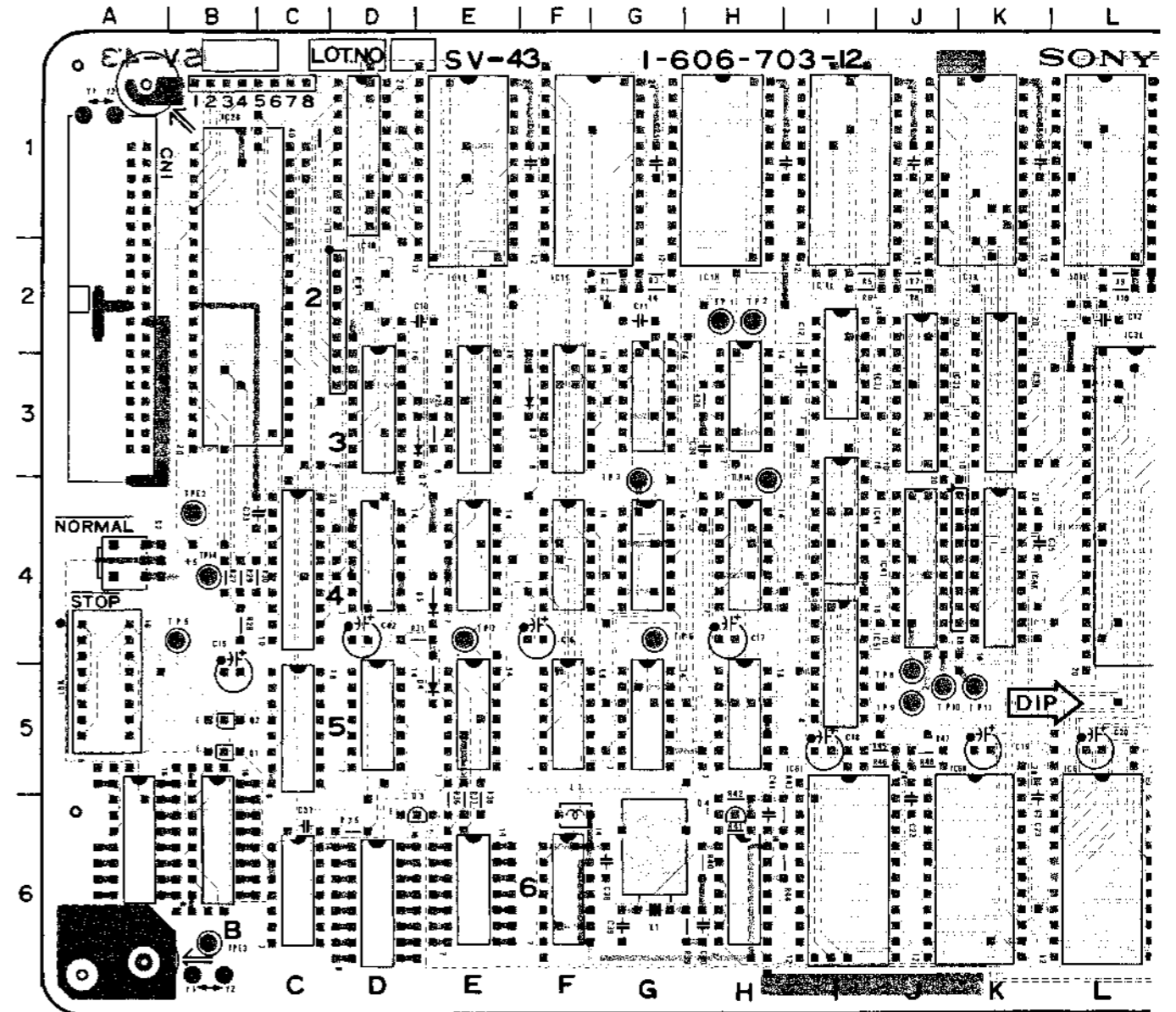
BVH-2000(J); #10501-
 BVH-2000(U/C); #10501-
 BVH-2000(PS); #10301-
 BVH-2000(PM); #10001-
 BVH-2500(J); #10001-
 BVH-2500(U/C); #10001-

C-57(6/7)

C-57(7/7)

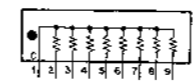
SV-43 BOARD (1-606-703-12)
Component Side

BVH-2500(J,U/C) BVH-2000(J,U/C)
 BVH-2000PS
 BVH-2000PM



1-606-703-12 COMPONENT SIDE

RB1, 2, 3, 4, 5

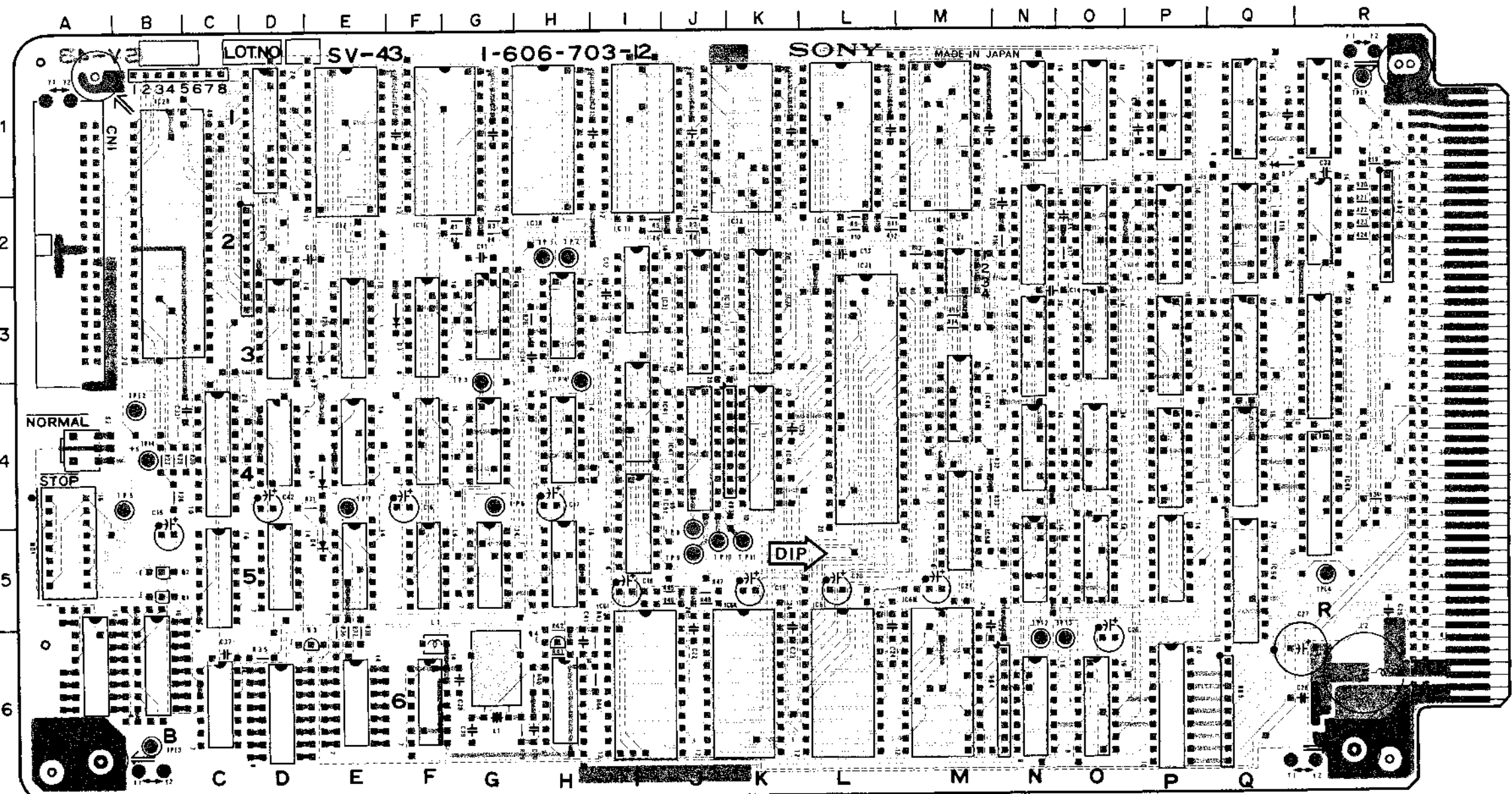


CV BHV-2000(J,U/C)
BHV-2000PS
BHV-2000PM

SV
-43

TAPE
RUN
NORM
STOP

14



SV-43 (I-606-703-12)

BVH-2000(J,U/C)	IC5F
BVH-2000PS	IC5G
BVH-2000PM	IC5H
BVH-2500(J,U/C)	IC5I
	IC5M
	IC5N
	IC5O
	IC5P
	IC5Q
	IC6C
	IC6F
	IC6H
	IC6I
	IC6J
	IC6K
	IC6M
	IC6N
	IC6O
	IC6P
DN1M 2A	
D1 10	
D2 3E	
D3 3F	
D4 5E	
D5 4E	
IC10	
IC1E	
IC1F	
IC1H	
IC1I	
IC1M	
IC1O	
IC1P	
IC1Q	
IC1R	
IC2B	
IC2N	
IC2O	
IC2P	
IC2Q	
IC2R	
IC3O	
IC3E	
IC3F	
IC3G	
IC3H	
IC3I	
IC3J	
IC3K	
IC3L	
IC3N	
IC3O	
IC3P	
IC3Q	
IC3R	
IC4C	
IC4D	
IC4E	
IC4F	
IC4G	
IC4H	
IC4I	
IC4J	
IC4K	
IC4M	
IC4N	
IC4O	
IC4P	
IC4R	
IC5C	
IC5D	
IC5E	
ND1 5A	
O1 5B	
O2 5B	
O3 6E	
O4 6H	
RB1 2D	
RB2 2R	
RB3 4K	
RB4 6W	
RB5 6Q	
S1 2M	
S2 4A	
TP1 2H	
TP2 2H	
TP3 4G	
TP4 4H	
TP5 4B	
TP6 4G	
TP7 4E	
TP8 5J	
TP9 5J	
TP10 5J	
TP11 5K	
TP12 6N	
TP13 6D	
TP14 4B	
TPE1 1R	
TPE2 4B	
TPE3 6B	
TPE4 5R	
X1 6G	

BVH-2000/PS/PM C-58 C-59 C-60

C-96

C-95

C-94

BVH-2500

I-606-703-12 COMPONENT SIDE

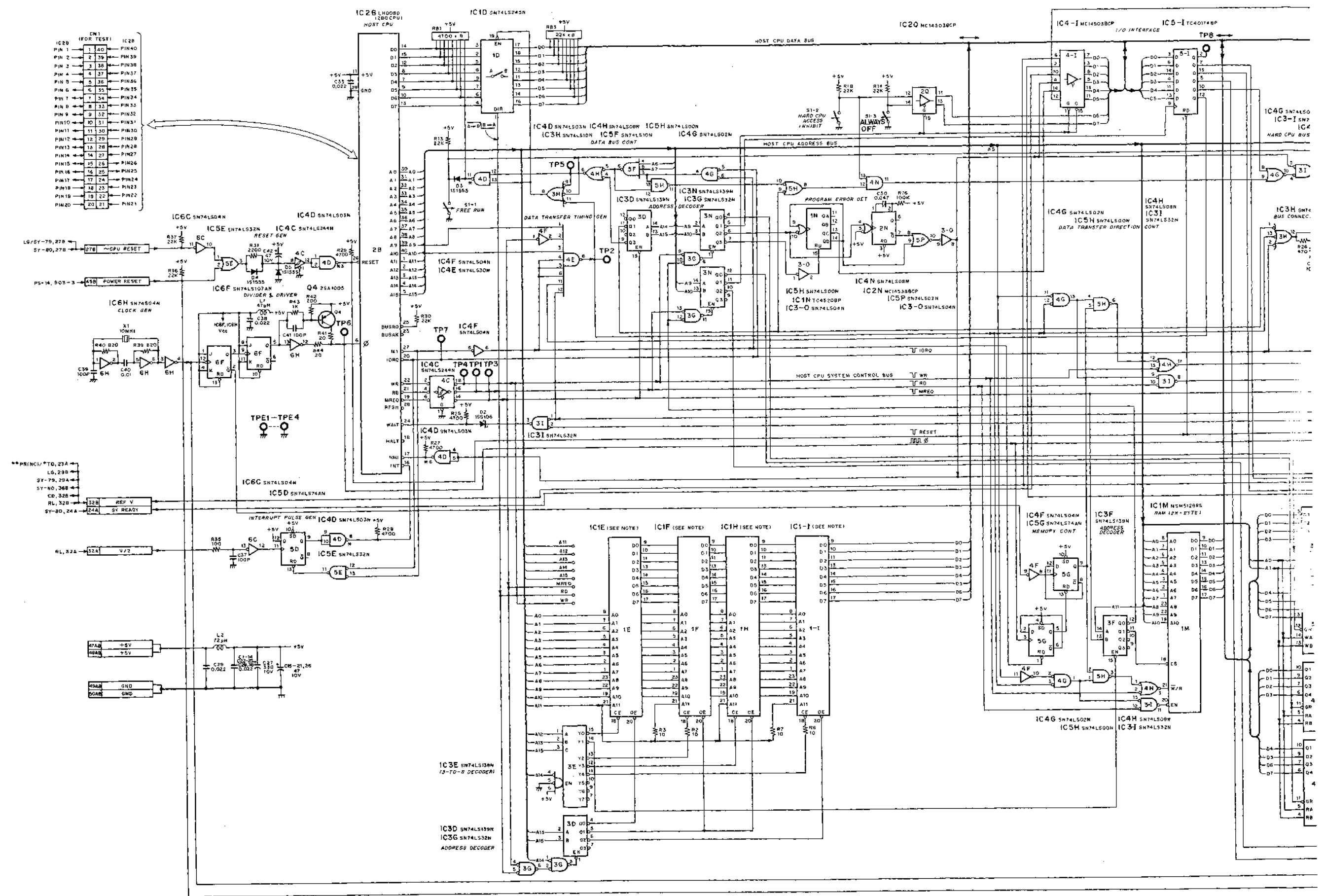
1-606-703-12

RB1, 2, 3, 4, 5

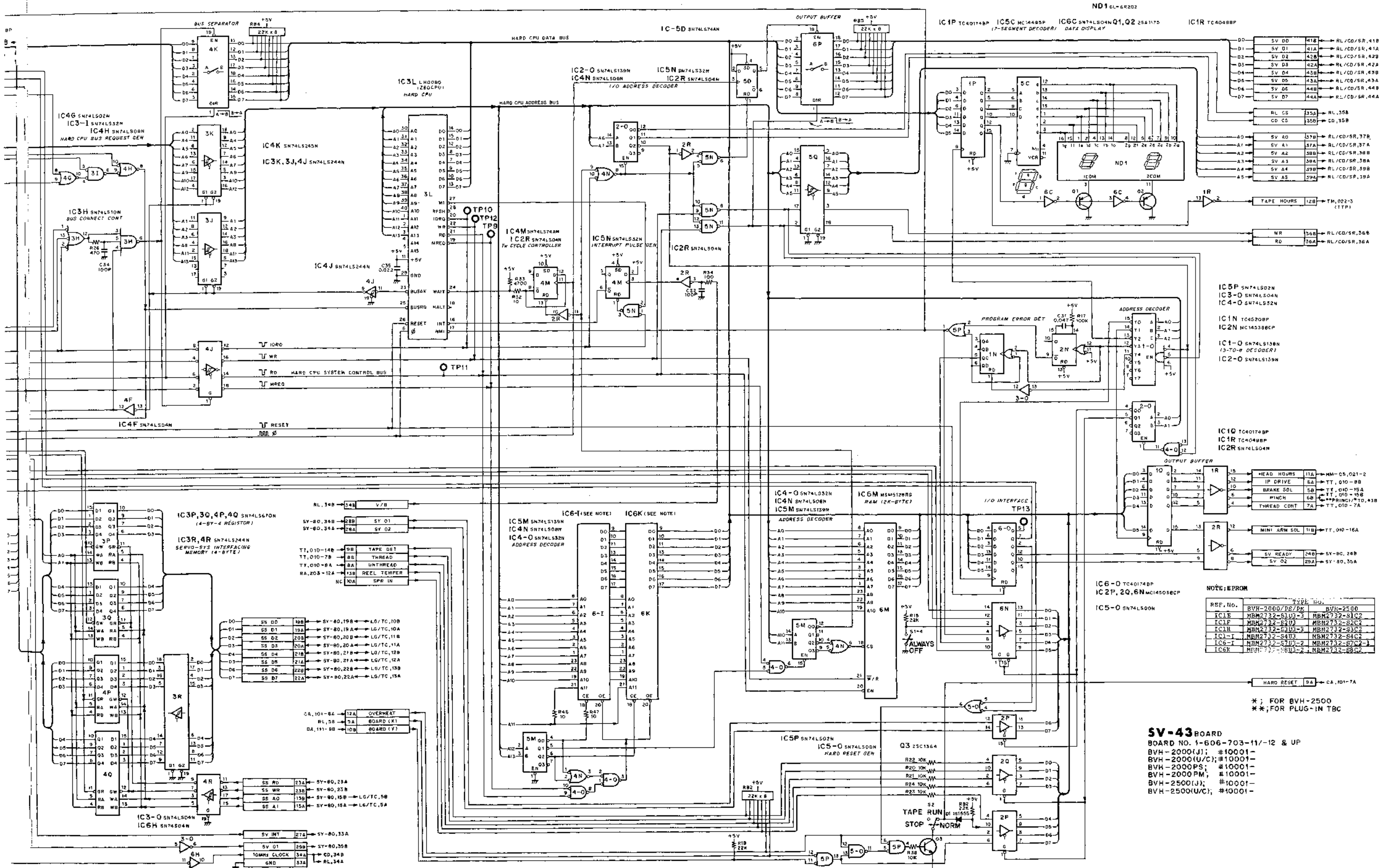


CARD RACK SV-43 SV-43 CARD RACK

SV-43 BOARD
Servo CPU



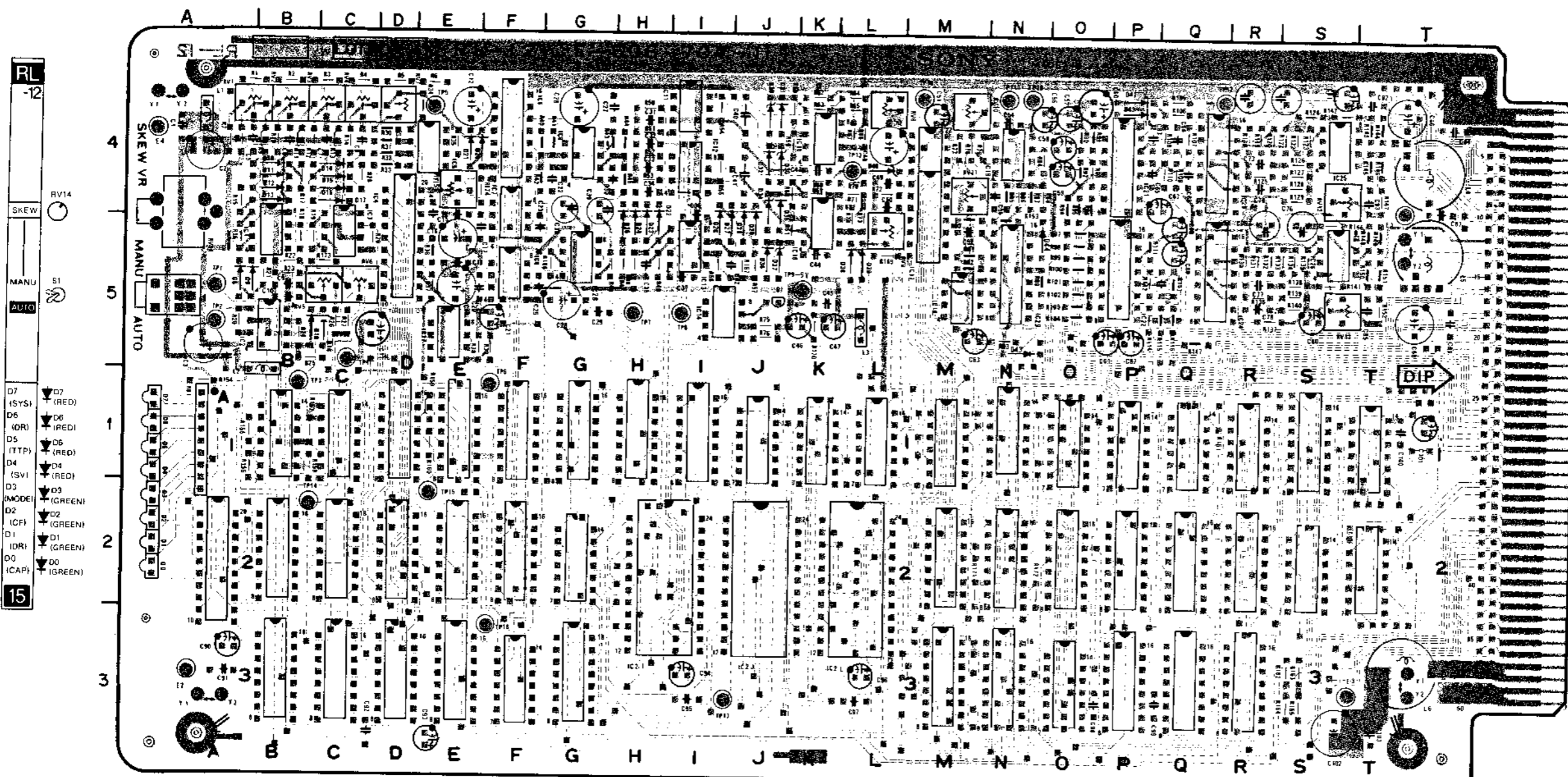
BVH-2000/PS/PM C-61 C-62 C-63 C-64
C-100 C-99 C-98 C-97
BVH-2500



NOTE: EPROM

REF. NO.	TYPE	MANUFACTURER
IC1E	BVH-2000/PS/PK	BVH-2500
IC1F	MBM2732-S1U3-3	MBM2732-S1C2
IC1H	MBM2732-S4U3-3	MBM2732-S3C2
IC1I	MBM2732-S4U3-3	MBM2732-S4C2
IC6-Y	MBM2732-S7U3-2	MBM2732-S7C2-1
IC6R	MBM2732-S7U3-2	MBM2732-S7C2-1

SV-43 BOARD
 BOARD NO. 1-606-703-11/-12 & UP
 BVH-2000(U); #10001-
 BVH-2000(U/C); #10001-
 BVH-2000(PS); #10001-
 BVH-2000(PM); #10001-
 BVH-2500(U); #10001-
 BVH-2500(U/C); #10001-



RL-12

RV14

SKREW

MANU S1

AUTO

D7 (SYS) (RED)

D6 (DR) (RED)

D5 (TTP) (RED)

D4 (SVI) (RED)

D3 (MODE) (GREEN)

D2 (CF) (GREEN)

D1 (DR) (GREEN)

D0 (CAPI) (GREEN)

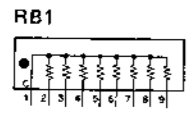
15

RL-12 (1-606-704-11)

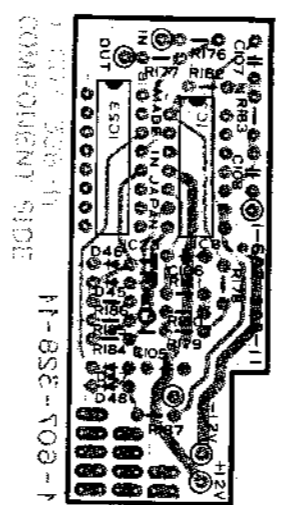
BVH-2000(J,U/C)	IC2F
BVH-2000PS	IC20
D0 2A	IC2R
D1 2A	IC2S
D2 2A	IC2T
D3 2A	IC3 5C
D4 1A	IC3F
D5 1A	IC3M
D6 1A	IC3N
D7 1A	IC30
D8 5A	IC4 50
D9 5A	IC5 4E
D10 4B	IC6 4F
D11 4B	IC7 4F
D12 4B	IC8 5F
D13 4B	IC9 4B
D14 4C	IC10 4I
D15 4C	IC11 4I
D16 4C	IC12 4I
D17 4C	IC13 5I
D18 5C	IC14 5J
D19 5B	IC15 4K
D20 4E	IC16 5K
D21 4E	IC17 4H
D22 5H	IC18 5M
D23 5H	IC19 4N
D24 5H	IC21 4P
D25 5H	IC22 5P
D26 5I	IC23 4Q
D27 5I	(TF-01 BOARD)
D28 5J	IC25 4S
D29 5J	IC26 5S
D38 5L	IC27 5E
D39 5L	IC28 5G
D40 4L	IC29 5N
D41 4P	IC31 4Q
D42 4P	(TF-01 BOARD)
D43 5N	Q1 5J
D44 5N	RB1 1A
D45 50	(TF-01 BOARD)
D46 50	RV1 4A
(TF-01 BOARD)	RV2 4B
D47 50	RV3 4C
(TF-01 BOARD)	RV4 4C
D48 50	RV5 5C
(TF-01 BOARD)	RV6 5C
D49 50	RV7 4D
(TF-01 BOARD)	RV8 4L
IC1 5B	RV9 5L
IC1B	RV10 4R
IC1C	RV11 4M
IC1D	RV12 4S
IC1E	RV13 5S
IC1F	RV14 5A
IC1G	RV15 4E
IC1H	S1 5A
IC1I	TP1 5A
IC1J	TP2 5A
IC1K	TP3 1B
IC1L	TP4 5C
IC1M	TP5 4E
IC1N	TP6 1F
IC1O	TP7 5H
IC1P	TP8 5I
IC1Q	TP9 5K
IC1R	TP10 4M
IC1S	TP11 4N
IC1T	TP12 4L
IC2 5B	TP13 4L
IC2A	TP14 2B
IC2C	TP15 2E
IC20	TP16 3F
IC2E	TP17 3I
IC2F	TP18 4N
IC2G	
IC2H	E1 4T
IC2J	E2 5A
IC2L	E3 3T
IC2M	E4 4A
IC2N	
IC20	

1-606-704-11 COMPONENT SIDE

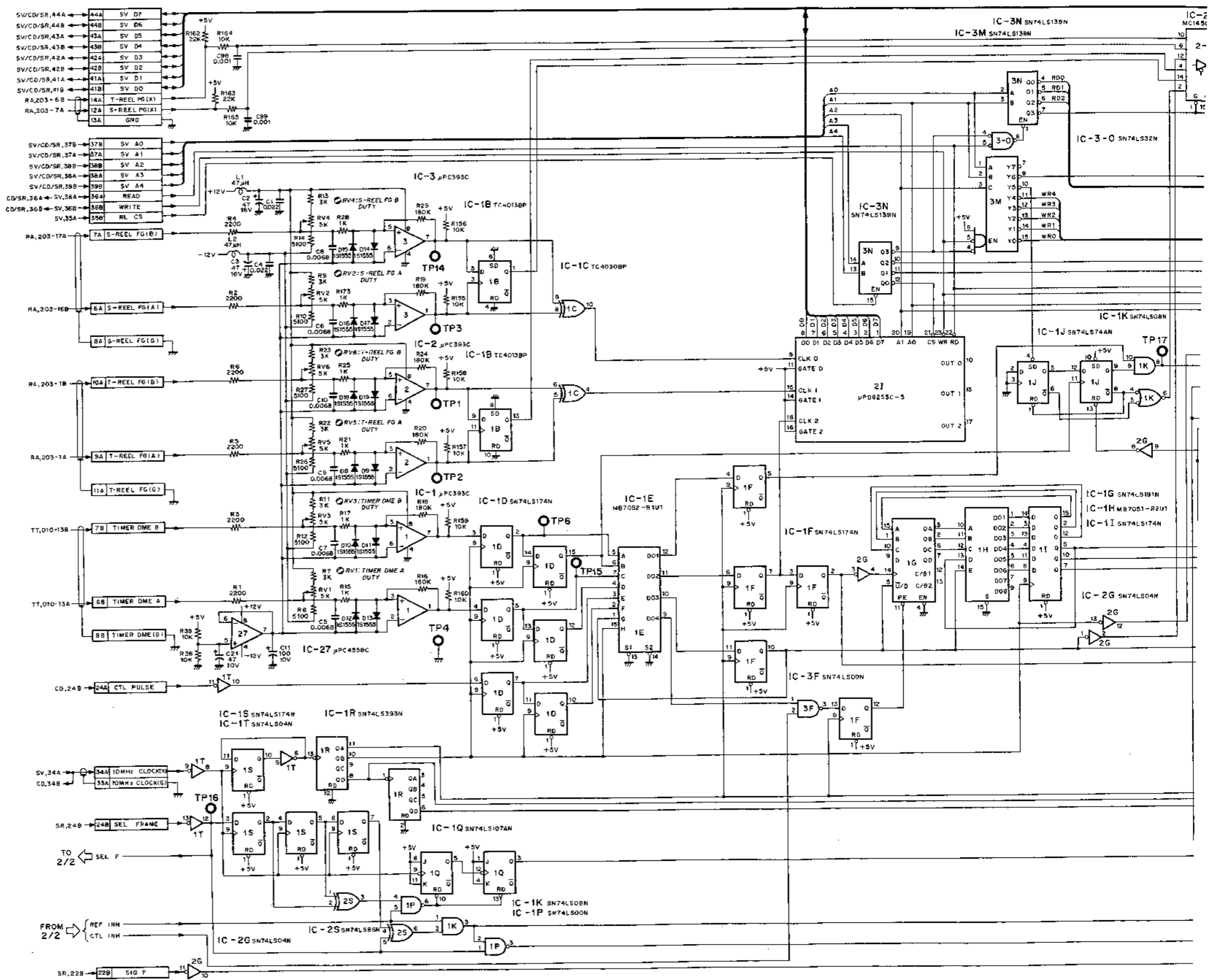
11-607-328-1

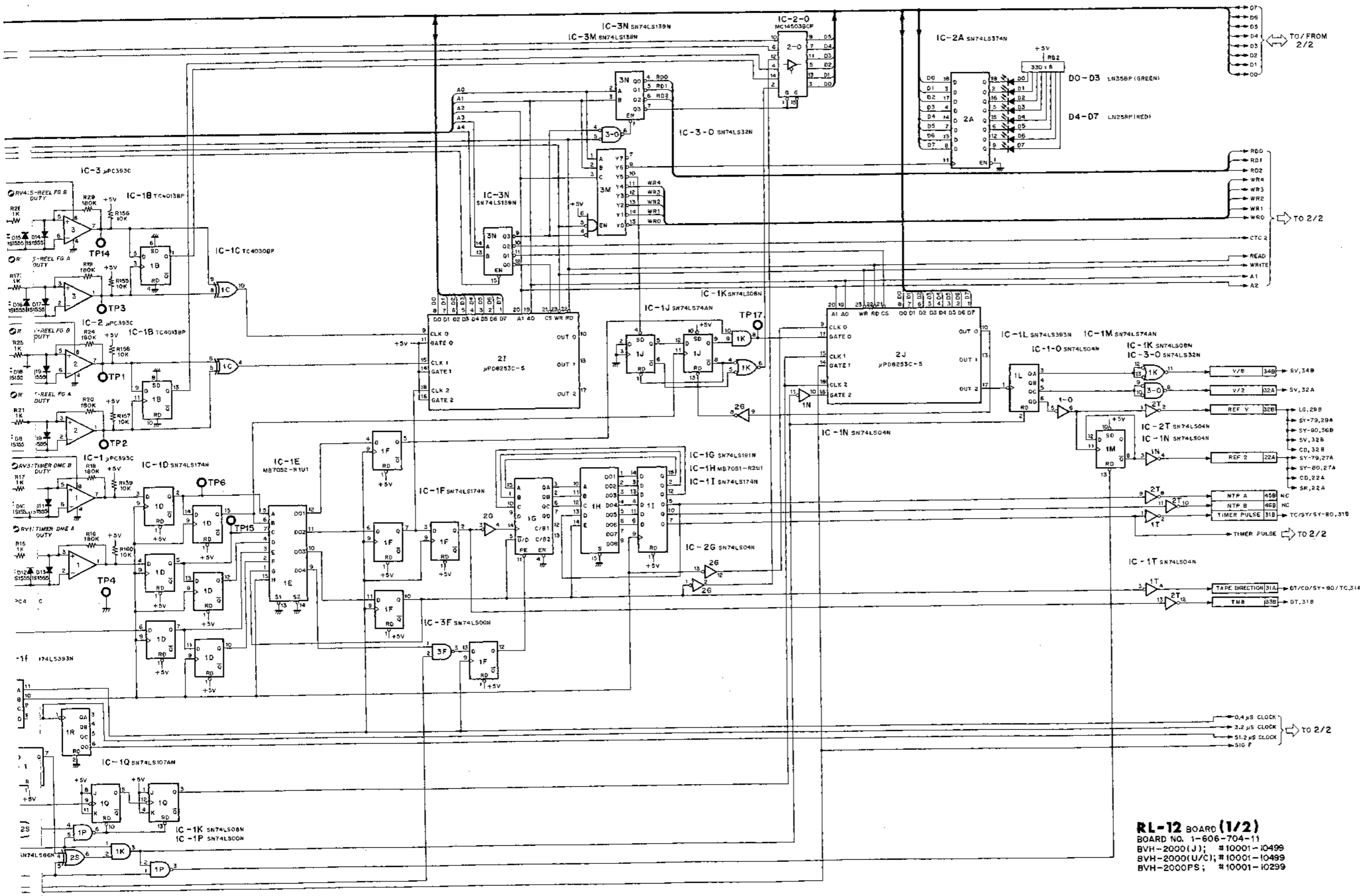


TF-01 BOARD (1-607-328-11)
Component Side



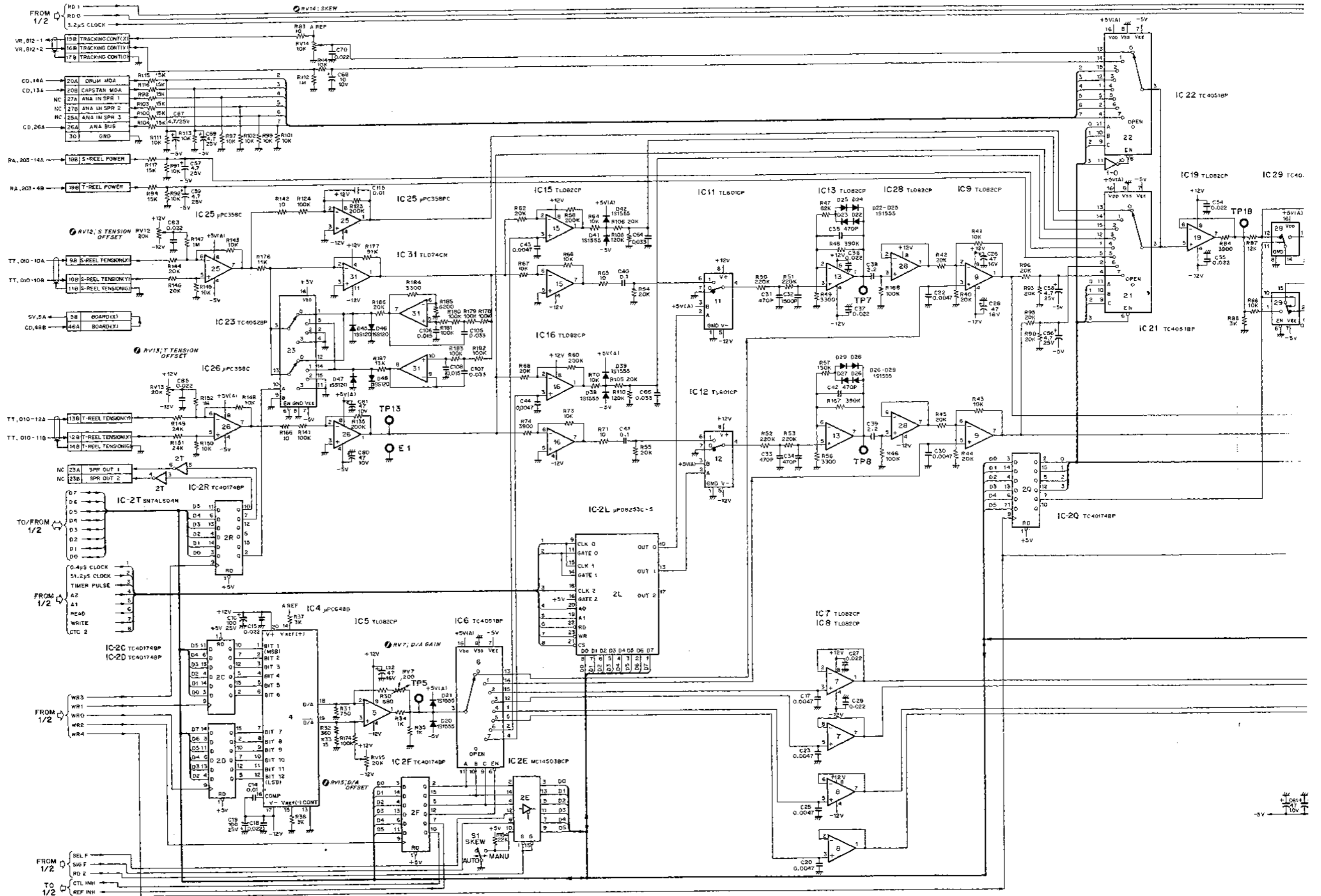
RL-12 BOARD (1/2)
Reel Servo

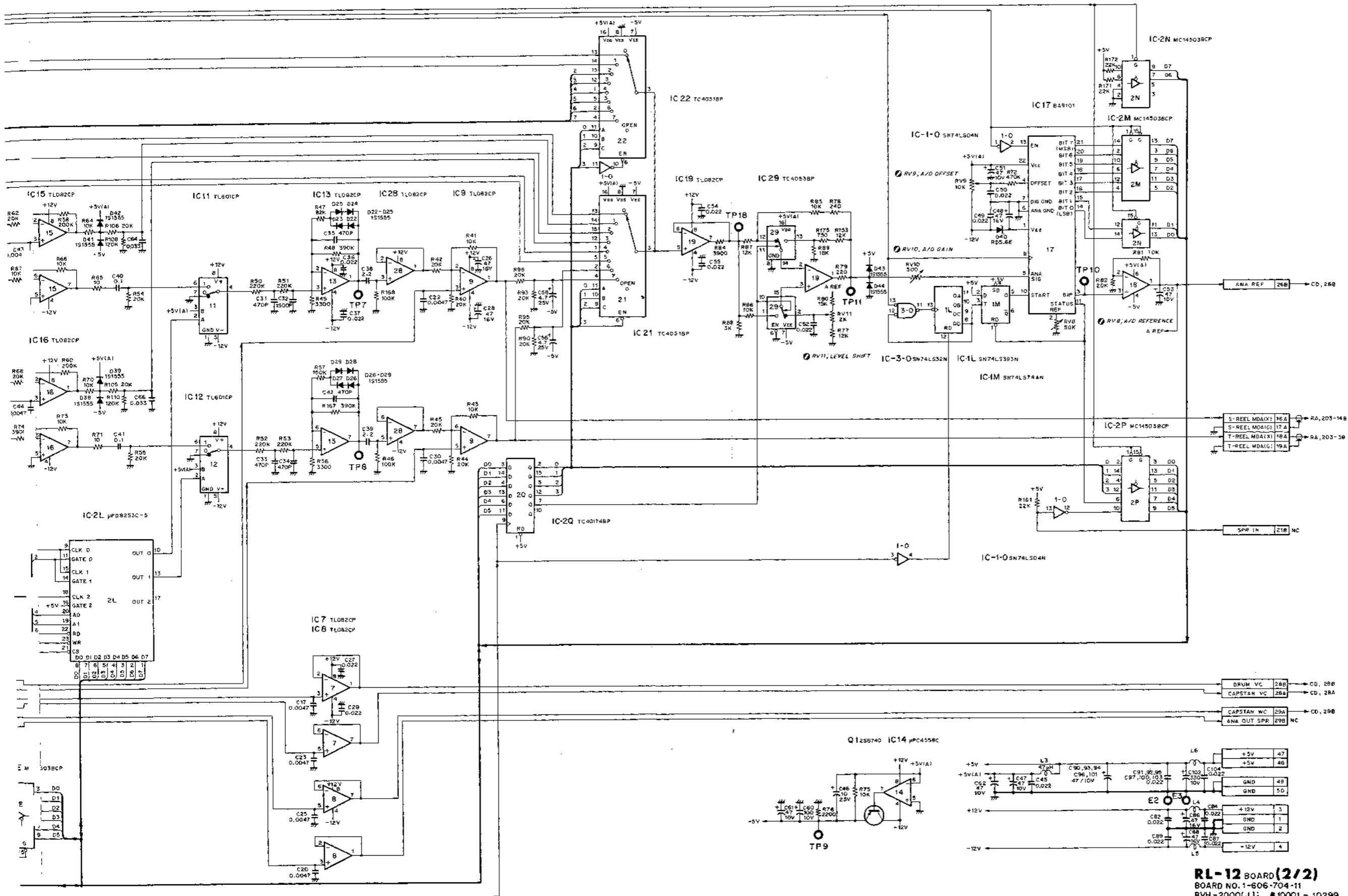




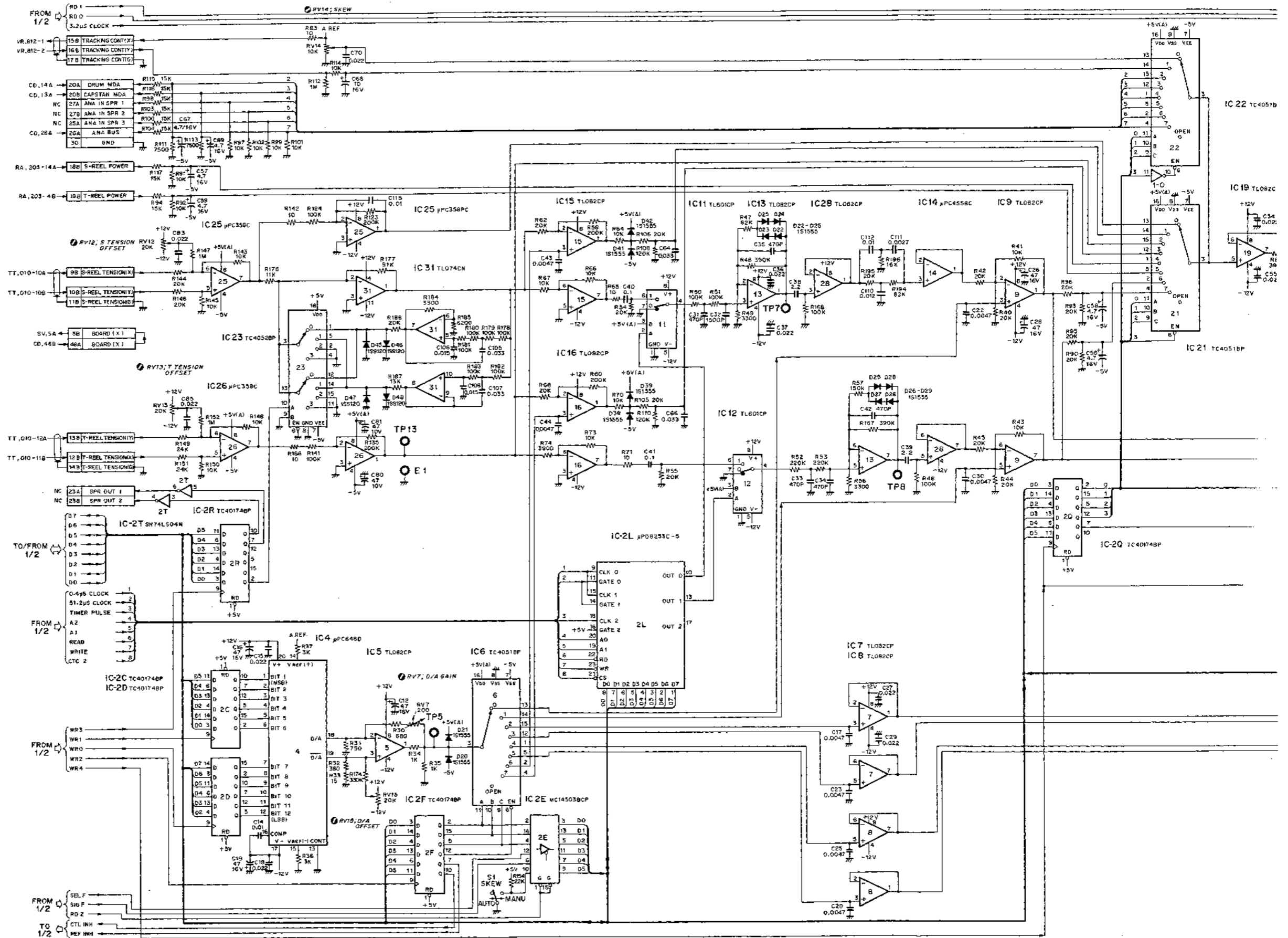
RL-12 BOARD (1/2)
 BOARD NO. 1-606-704-11
 BVH-2000(I); #10001-10499
 BVH-2000(U/C); #10001-10499
 BVH-2000PS; #10001-10299

RL-12 BOARD (2/2)
Reel Servo

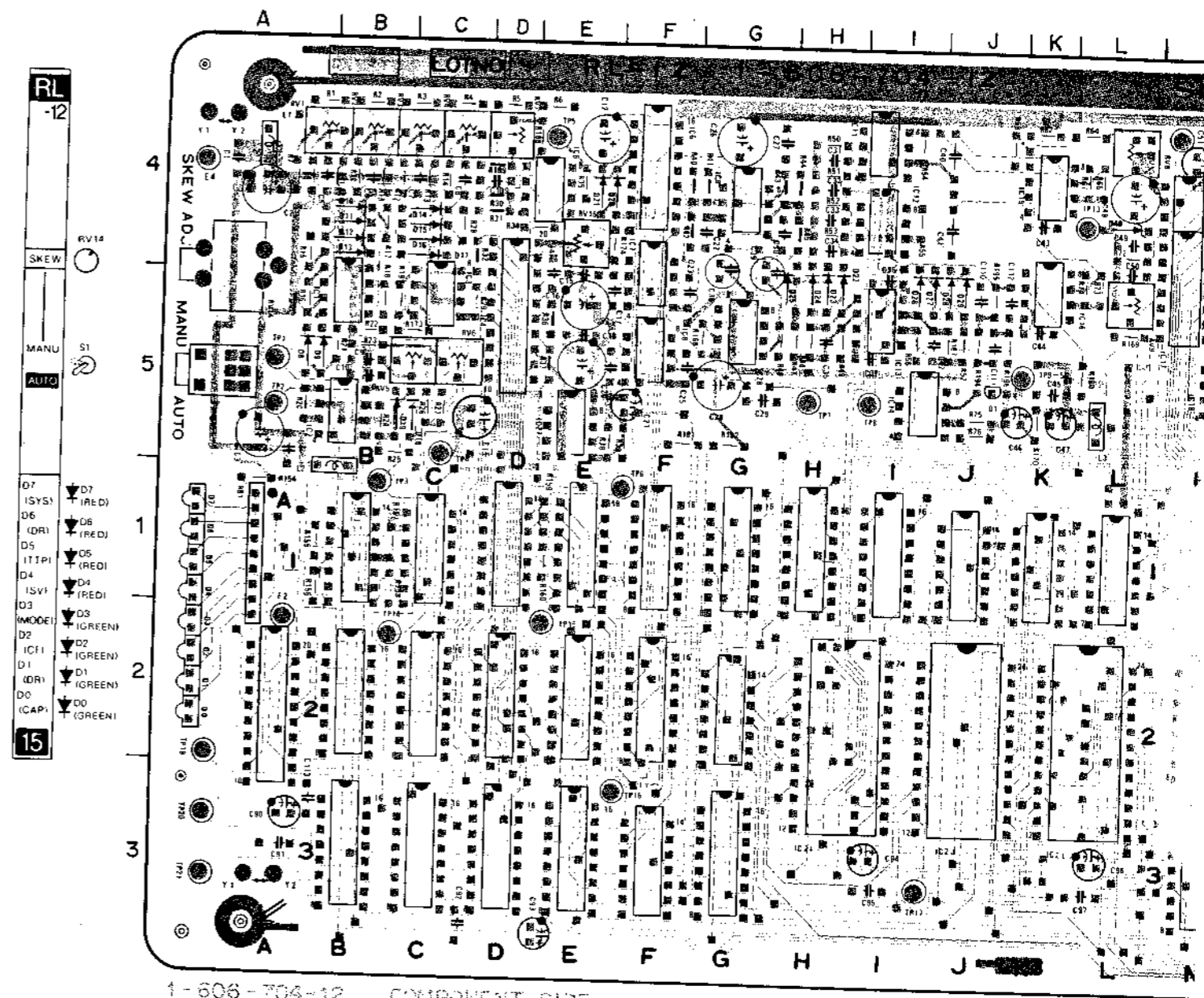




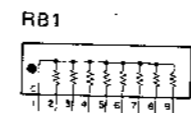
RL-12 BOARD (2/2)
Reel Servo

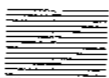


RL-12 BOARD (1-606-704-12)
Component Side



1-606-704-12 COMPONENT SIDE





RL-12

RV14

SKEW

MANU

AUTO

D7 (SYS) IREDI

D6 (DR) IREDI

D5 (TPI) IREDI

D4 (SV) IREDI

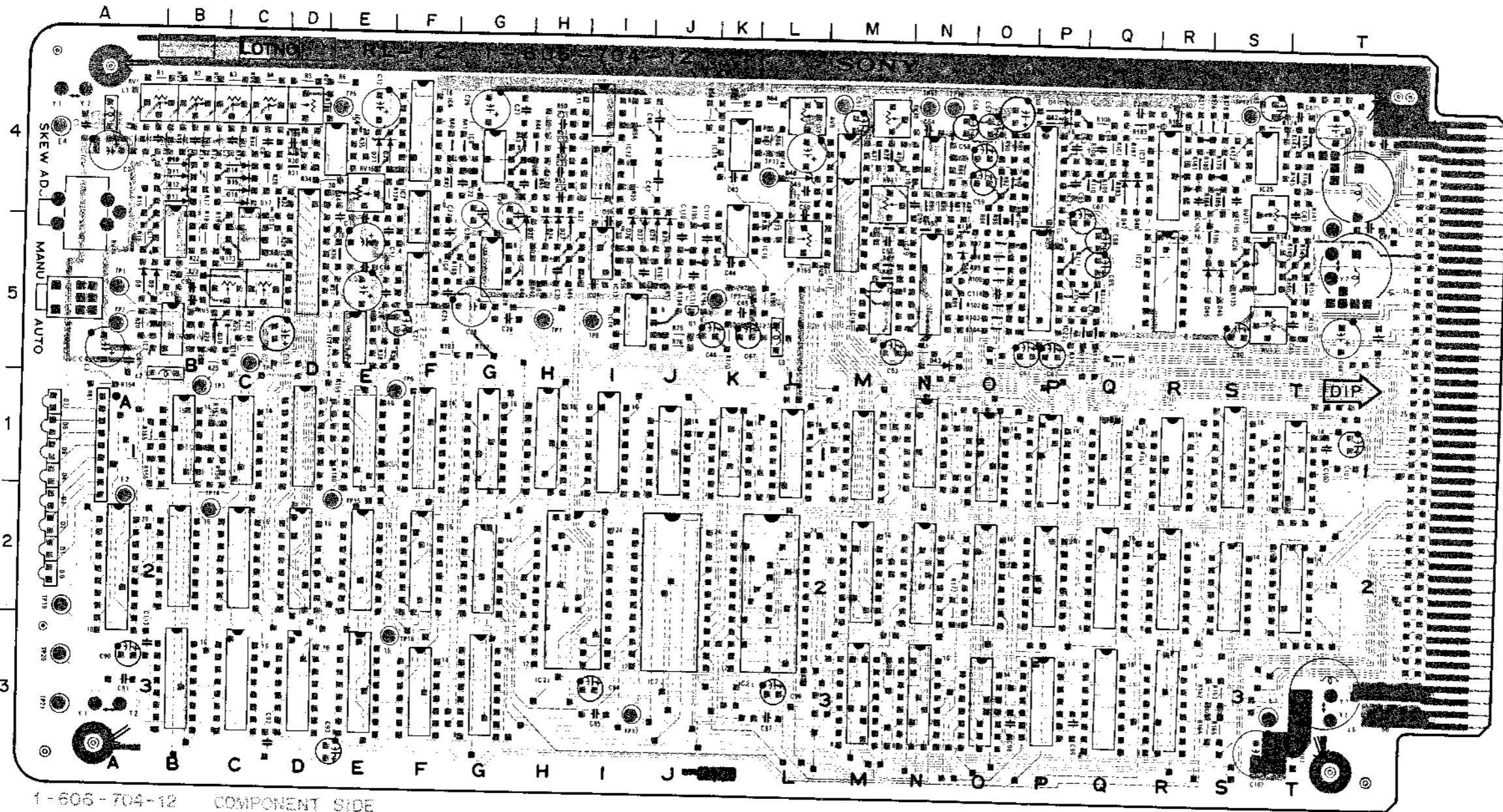
D3 (MODE) IGREEN

D2 (CFI) IGREEN

D1 (DR) IGREEN

D0 (CAP) IGREEN

15

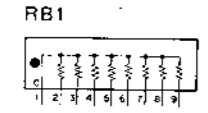


RL-12 (1-606-704-12)

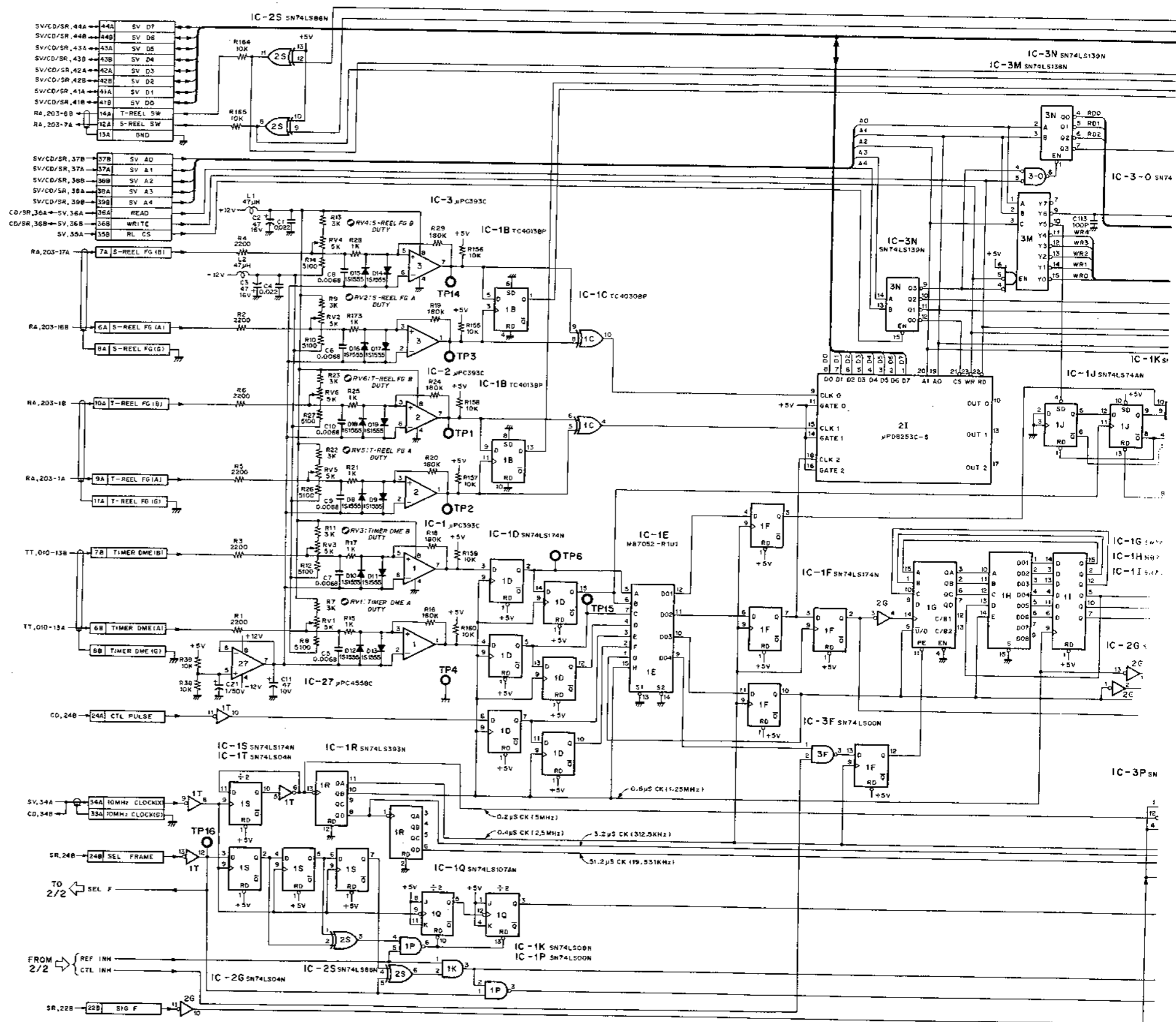
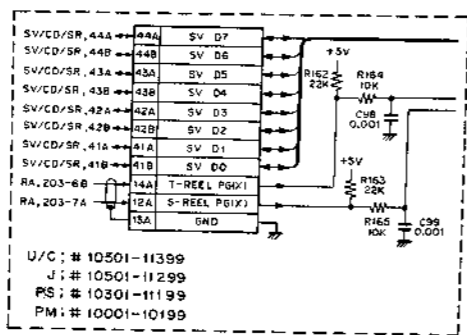
BVH-2000J (J/W/C)	IC2P
BVH-2000P5	IC20
BVH-2000PK	IC2R
	IC2S
D0	2A IC25
D1	2A IC3
D2	2A IC3F
D3	2A IC5M
D4	1A IC5N
D5	1A IC30
D6	1A IC3P
D7	1A IC4
D8	5A IC5
D9	5A IC6
D10	4B IC7
D11	4B IC8
D12	4B IC9
D13	4B IC11
D14	4C IC12
D15	4C IC13
D16	4C IC14
D17	4C IC15
D18	5C IC16
D19	5B IC17
D20	4E IC18
D21	4E IC19
D22	5H IC21
D23	5H IC22
D24	5H IC23
D25	5H IC25
D26	5H IC26
D27	5H IC27
D28	5J IC28
D29	5J IC29
D40	4L IC31
D43	5N
D44	5N Q1
D45	5S
D46	5S RB1
D47	4Q
D48	4Q
	RV1
	RV2
	RV3
	RV4
	RV5
	RV6
	RV7
	RV8
	RV9
	RV10
	RV11
	RV12
	RV13
	RV14
	RV15
	S1
	TP1
	TP2
	TP3
	TP4
	TP5
	TP6
	TP7
	TP8
	TP9
	TP10
	TP11
	TP12
	TP13
	TP14
	TP15
	TP16
	TP17
	TP18
	TP19
	TP20
	TP21
	E1
	E2
	E3
	E4

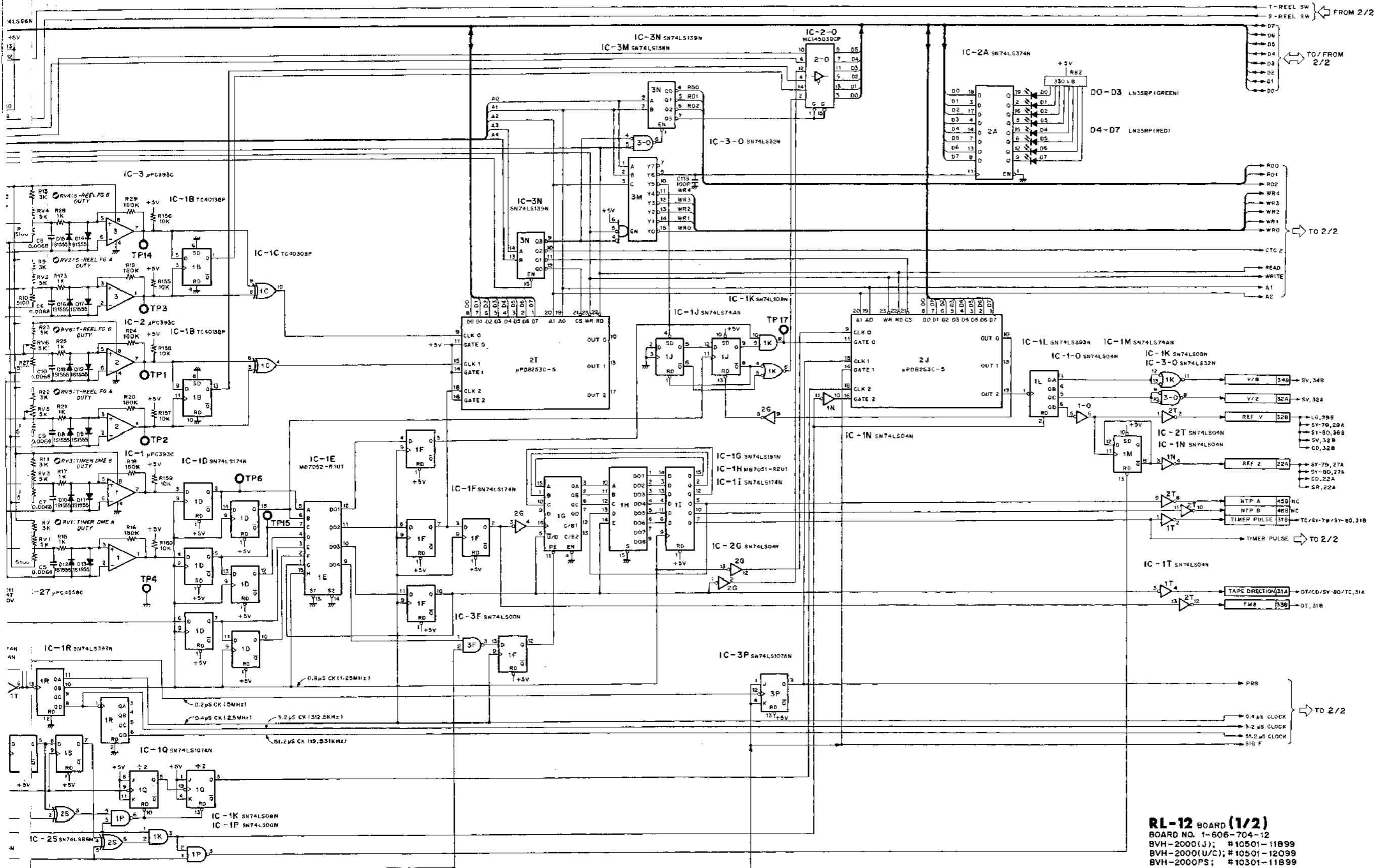
1-606-704-12 COMPONENT SIDE

1-606-704-12



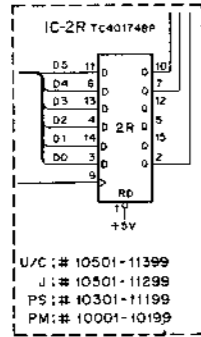
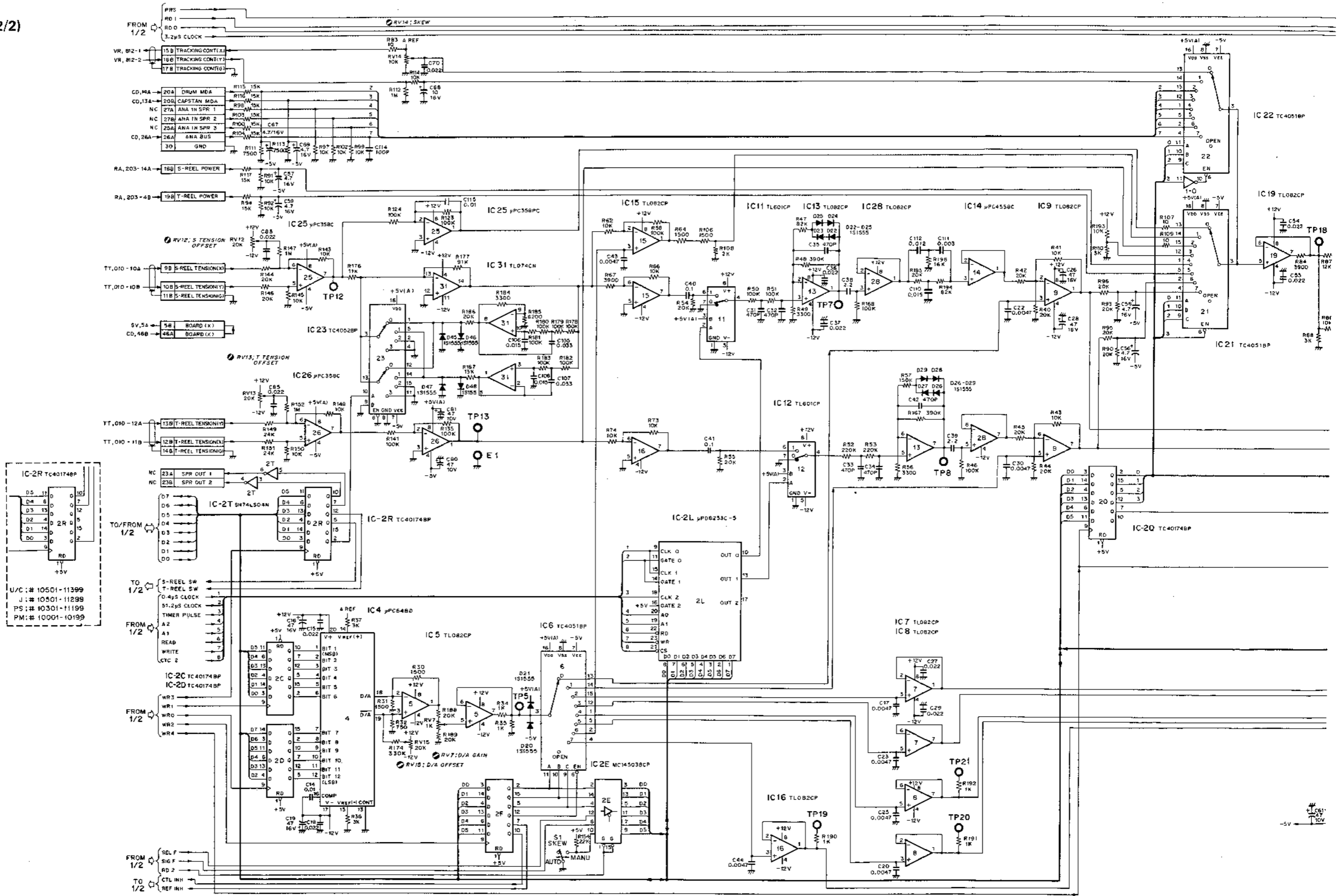
RL-12 BOARD (1/2)
Reel Servo

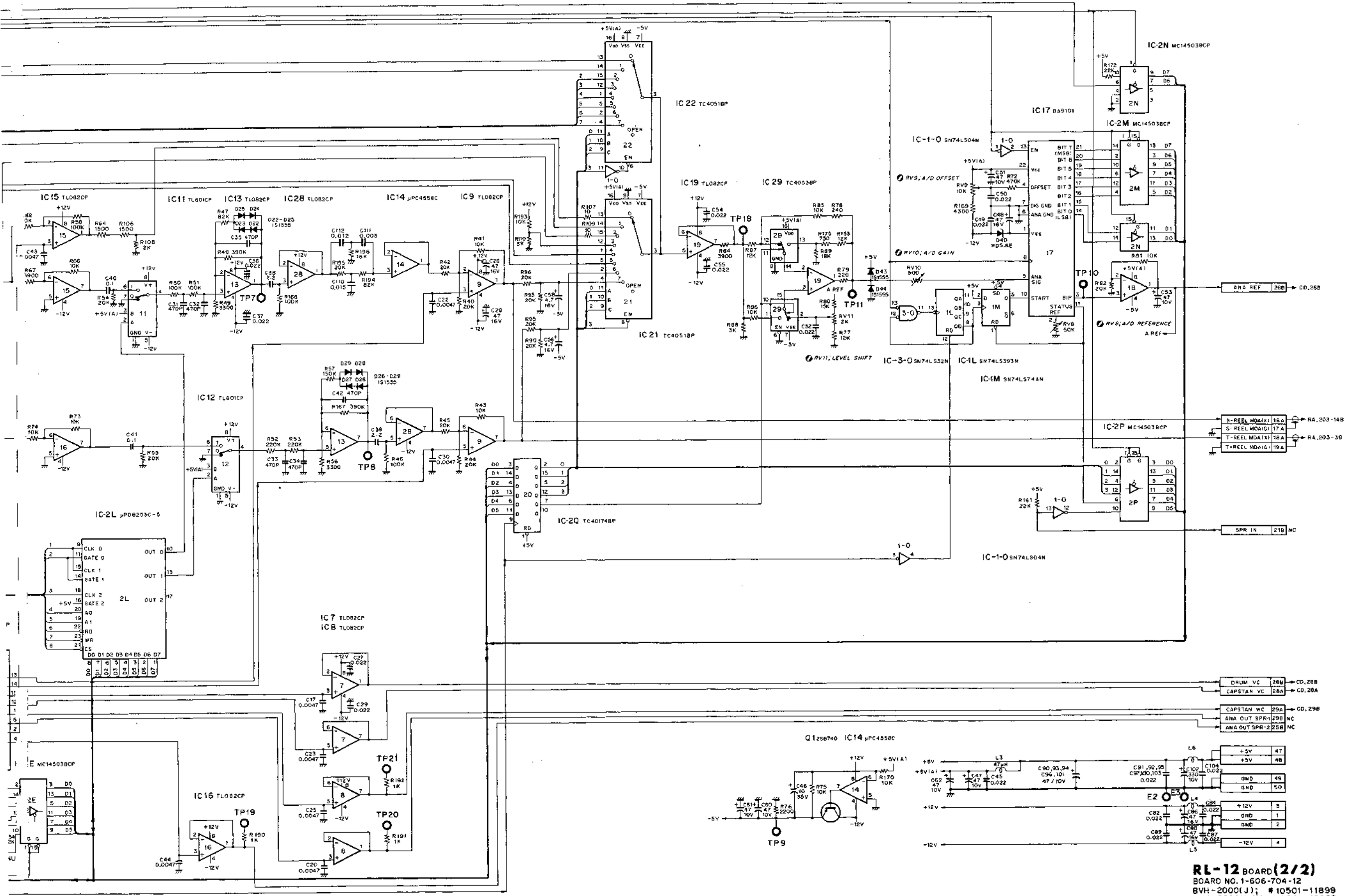




RL-12 BOARD (1/2)
 BOARD NO. 1-606-704-12
 BVH-2000(J); #10501-11899
 BVH-2000(U/C); #10501-12099
 BVH-2000(PS); #10301-11899
 BVH-2000(PM); #10001-10199

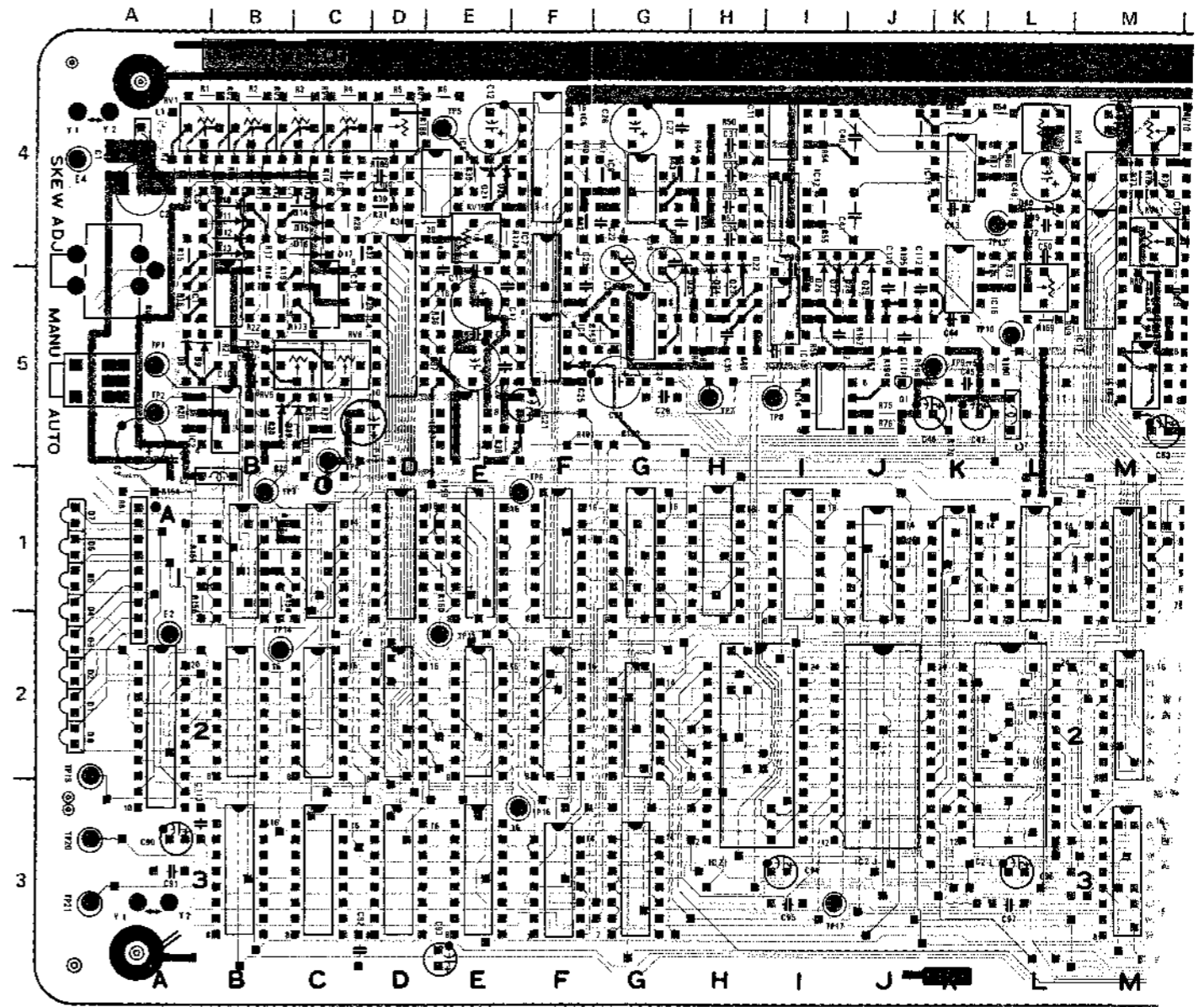
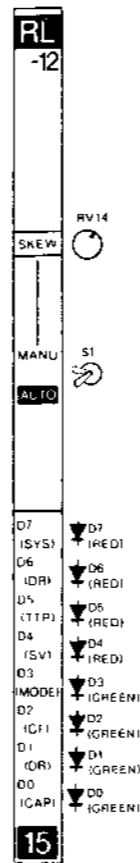
RL-12 BOARD (2/2)
Reel Servo



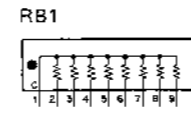


RL-12 BOARD (2/2)
 BOARD NO. 1-606-704-12
 BVH-2000(J); #10501-11899
 BVH-2000(U/C); #10501-12099
 BVH-2000PS; #10301-11899
 BVH-2000PM; #10001-10199

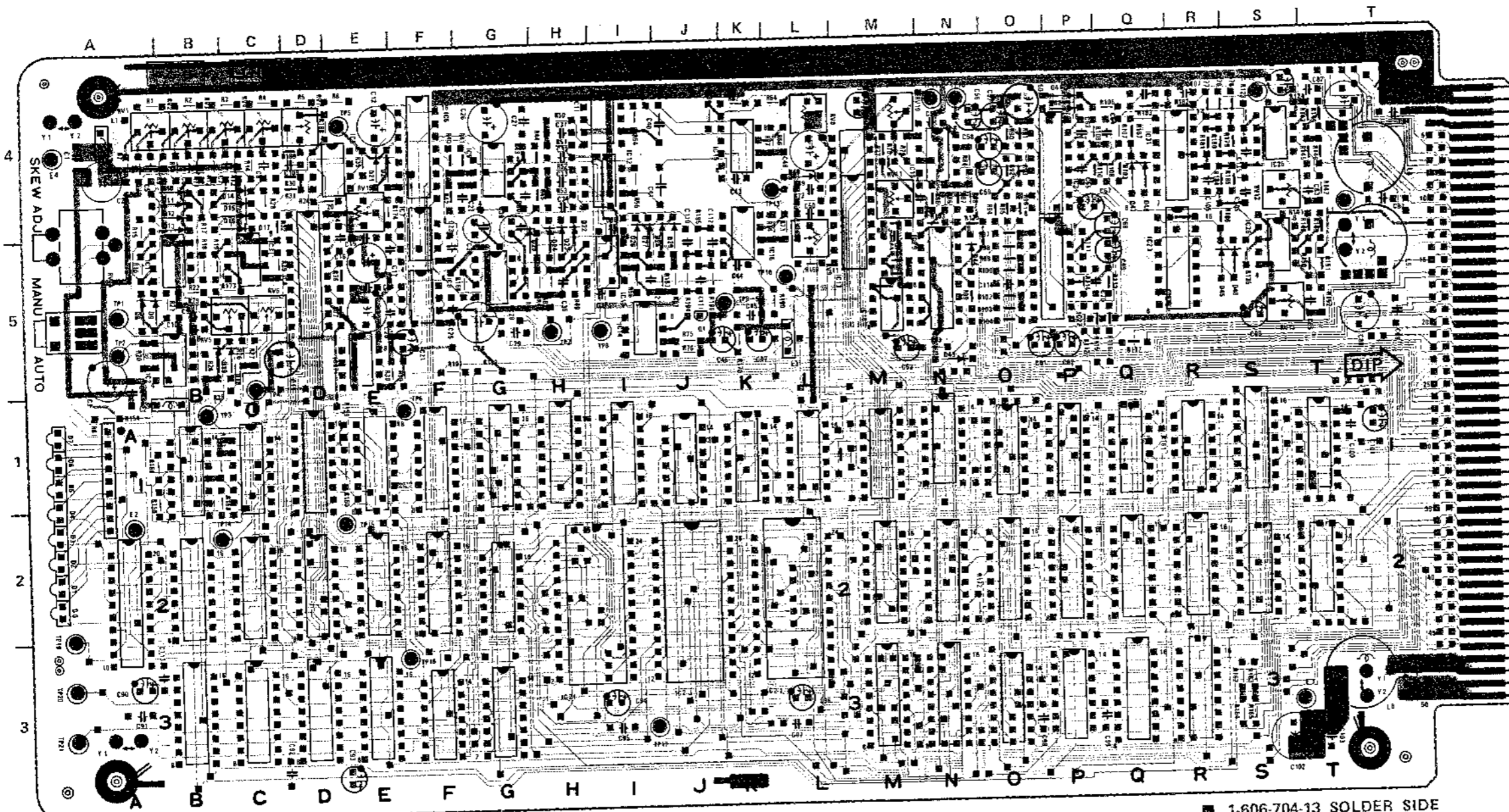
RL-12 BOARD (1-606-704-13)
Component Side



1-606-704-13 COMPONENT SIDE



7 (13)



1-606-704-13 COMPONENT SIDE

1-606-704-13 SOLDER SIDE

RL-12

RV14 SKREW

MANU S1

AUTO S2

D7 (RED)
ISYS1 (RED)
D6 (RED)
IDR1 (RED)
D5 (RED)
ITTP1 (RED)
D4 (RED)
ISV1 (RED)
D3 (GREEN)
IMODE1 (GREEN)
D2 (GREEN)
ICF1 (GREEN)
D1 (GREEN)
IDRI (GREEN)
D0 (GREEN)
ICAPI (GREEN)

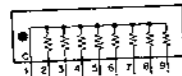
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RL-12 (1-606-704-13 & DP)

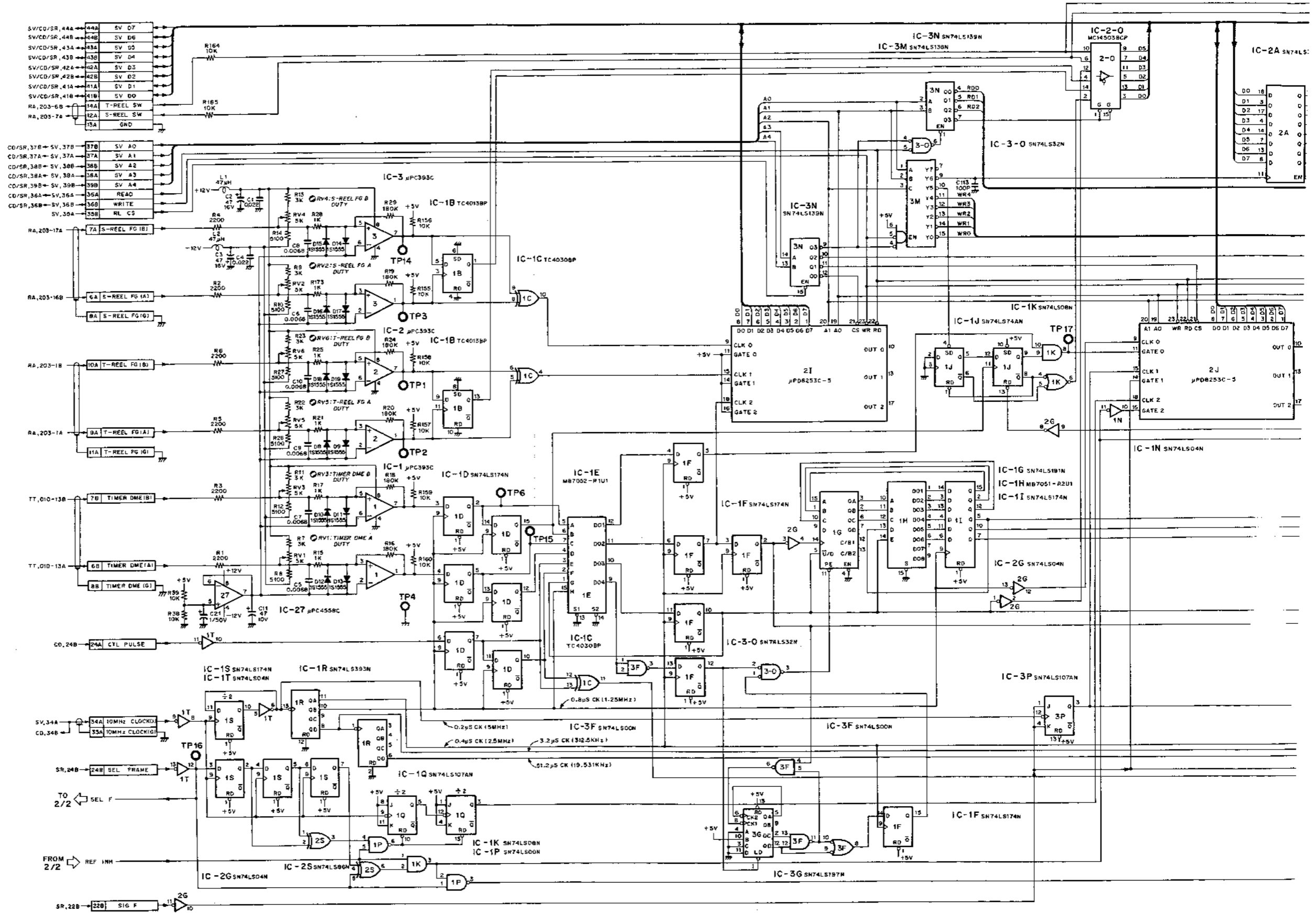
BVH-2000 (J,U/C)
BVH-2000PS
BVH-2000PM
BVH-2500 (J,U/C)

D0	2A	IC3	5C
D1	2A	IC3P	
D2	2A	IC3G	
D3	2A	IC3M	
D4	1A	IC3N	
D5	1A	IC3O	
D6	1A	IC3P	
D7	1A	IC4	5D
D8	5A	IC5	4E
D9	5A	IC6	4F
D10	4B	IC7	4F
D11	4B	IC8	5F
D12	4B	IC9	4G
D13	4B	IC11	4I
D14	4C	IC12	4I
D15	4C	IC13	5I
D16	4C	IC14	5I
D17	4C	IC15	4K
D18	5C	IC16	5K
D19	5B	IC17	5M
D20	4E	IC18	5M
D21	4E	IC19	4N
D22	5E	IC21	4P
D23	5E	IC22	5P
D24	5E	IC23	5E
D25	5E	IC25	4E
D26	5I	IC26	5E
D27	5I	IC27	5E
D28	5J	IC28	5G
D29	5J	IC29	5N
D40	4I	IC31	4R
D43	5N		
D44	5N	Q1	5J
D45	5S		
D46	5S	RB1	1A
D47	4Q		
D48	4Q	RV1	4A
D50	5H	RV2	4B
D51	5H	RV3	4C
		RV4	4C
		RV5	5C
E1	4T	RV6	5C
E2	2A	RV7	4D
E3	3T	RV8	4L
E4	4A	RV9	5L
		RV10	4M
		RV11	4M
		RV12	4S
		RV13	5S
		RV14	5A
		RV15	4E
		RV20	4O
		S1	5A
		TP1	5A
		TP2	5A
		TP3	1B
		TP4	5C
		TP5	4E
		TP6	1P
		TP7	5E
		TP8	5I
		TP9	5K
		TP10	5L
		TP11	4N
		TP12	4E
		TP13	4L
		TP14	2B
		TP15	2E
		TP16	3F
		TP17	3I
		TP18	4N
		TP19	2A
		TP20	3A
		TP21	3A
		IC1	
		IC2	
		IC2A	
		IC2C	
		IC2D	
		IC2E	
		IC2F	
		IC2G	
		IC2I	
		IC2J	
		IC2L	
		IC2M	
		IC2N	
		IC2O	
		IC2P	
		IC2Q	
		IC2R	
		IC2S	
		IC2T	

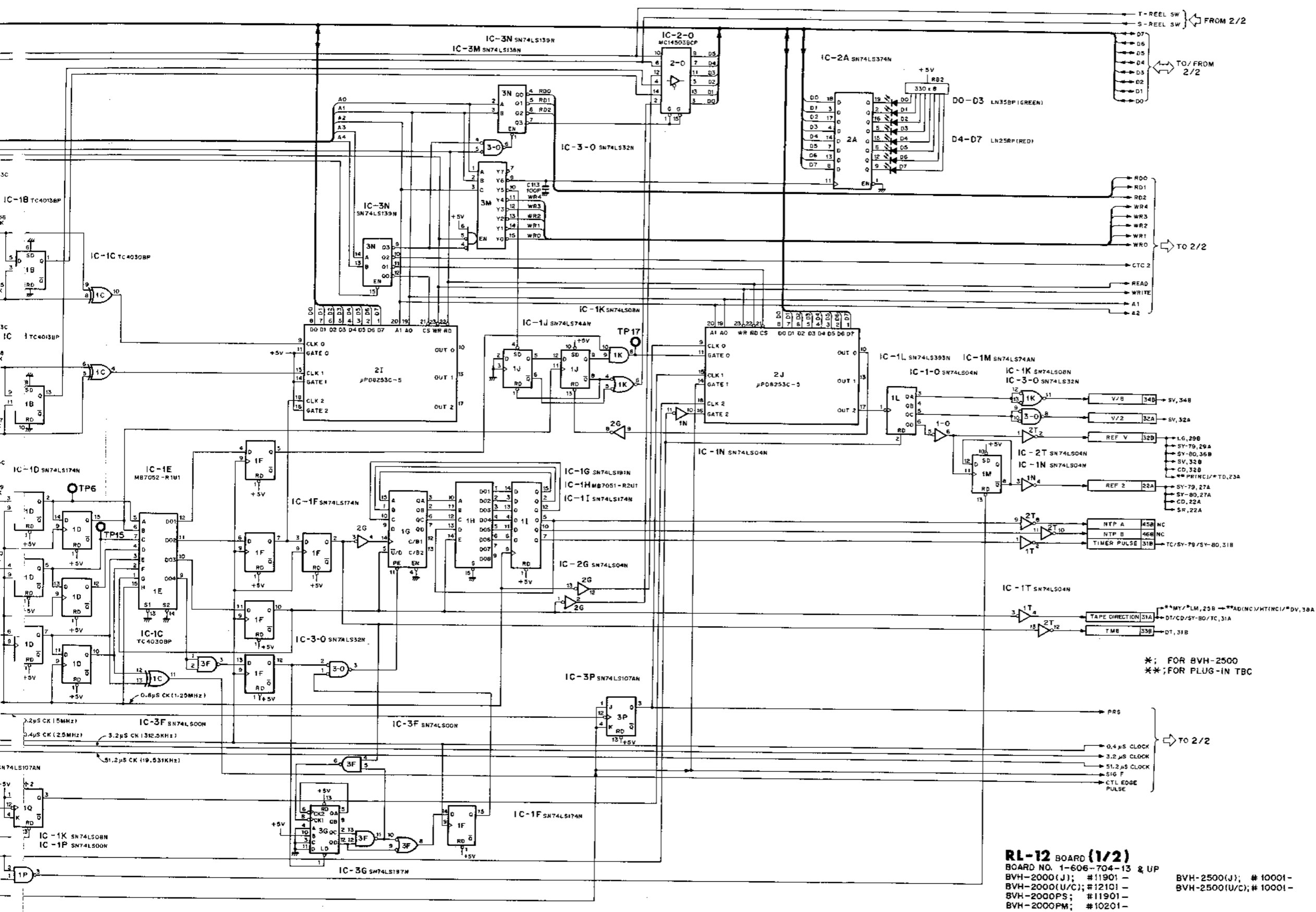
RB1



RL-12 BOARD (1/2)
Reel Servo



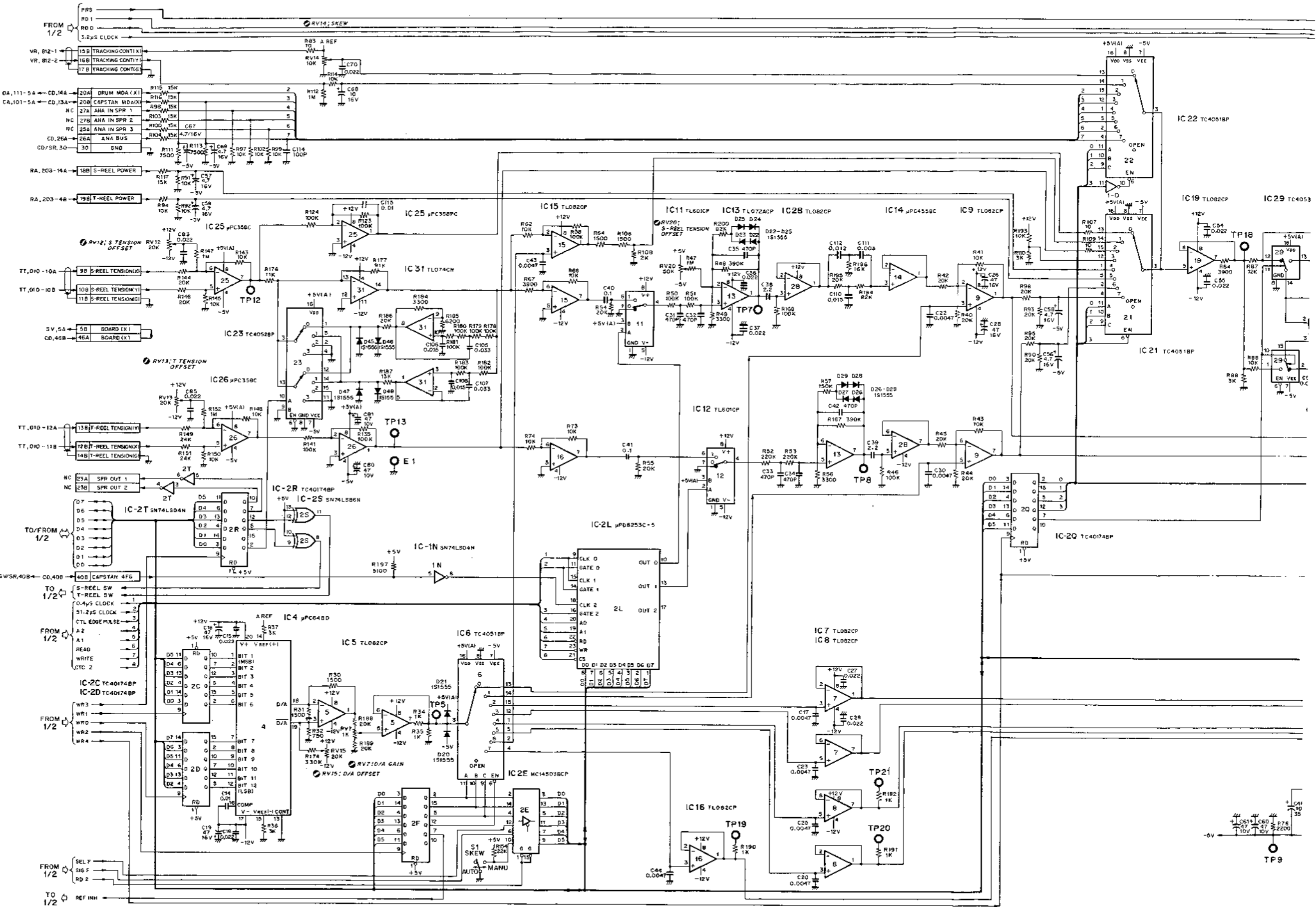
BVH-2000/PS C-77(17/25) C-77(18/25) C-77(19/25)
C-107 C-106 C-105 BVH-2500



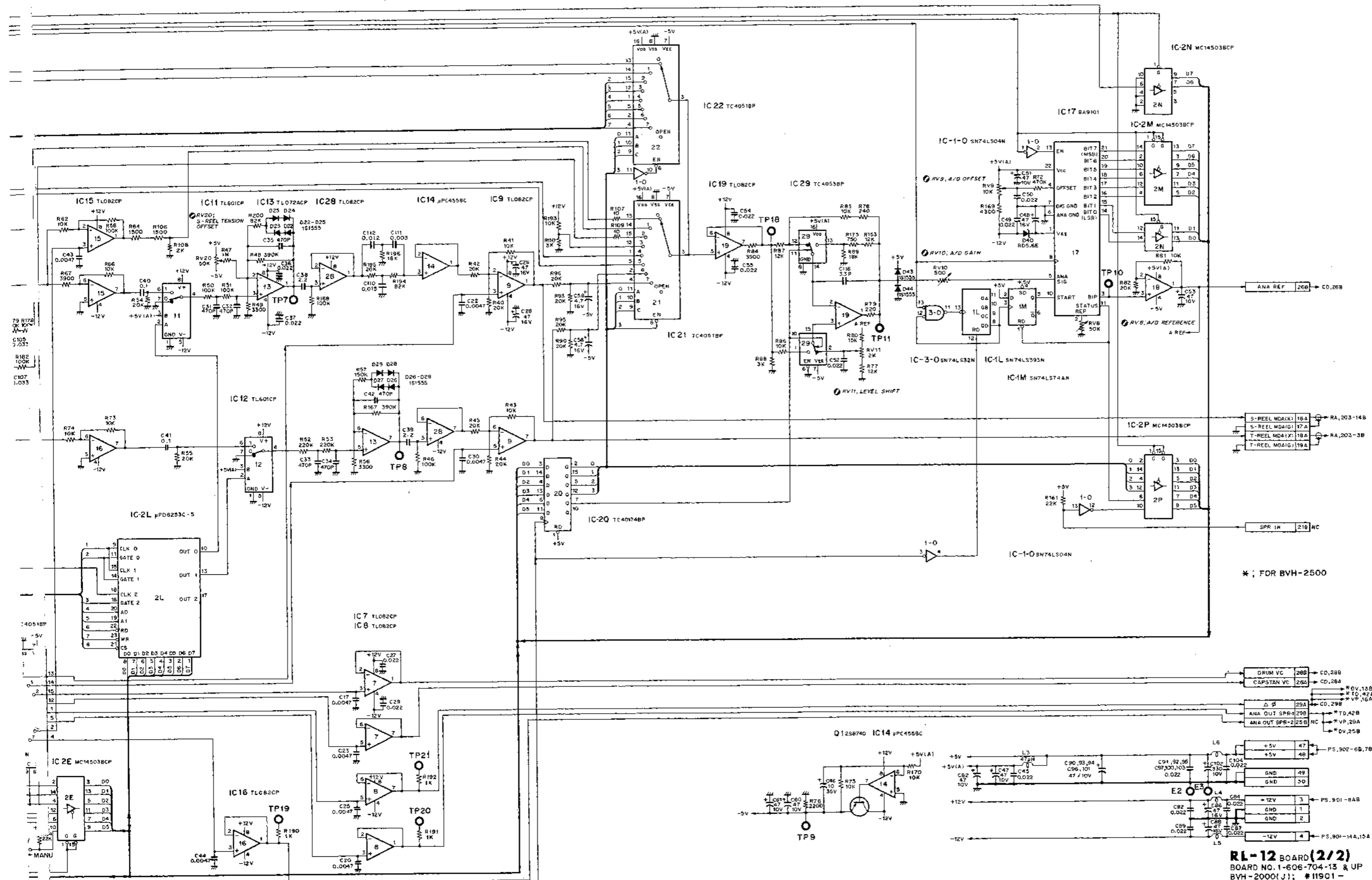
RL-12 BOARD (1/2)
 BOARD NO. 1-606-704-13 & UP
 BVH-2000(J); #11901 -
 BVH-2000(U/C); #12101 -
 BVH-2000PS; #11901 -
 BVH-2000PM; #10201 -

BVH-2500(J); #10001 -
 BVH-2500(U/C); #10001 -

RL-12 BOARD (2/2)
Reel Servo



BVH-2000/PS C-77(23/25) C-77(24/25) C-77(25/25) C-113 C-112 C-111 BVH-2500



* FOR BVH-2500

RL-12 BOARD (2/2)
 BOARD NO. 1-606-704-13 & UP
 BVH-2000(J); #11901 -
 BVH-2000(U/C); #12101 -
 BVH-2000PS; #11901 -
 BVH-2000PM; #10201 -

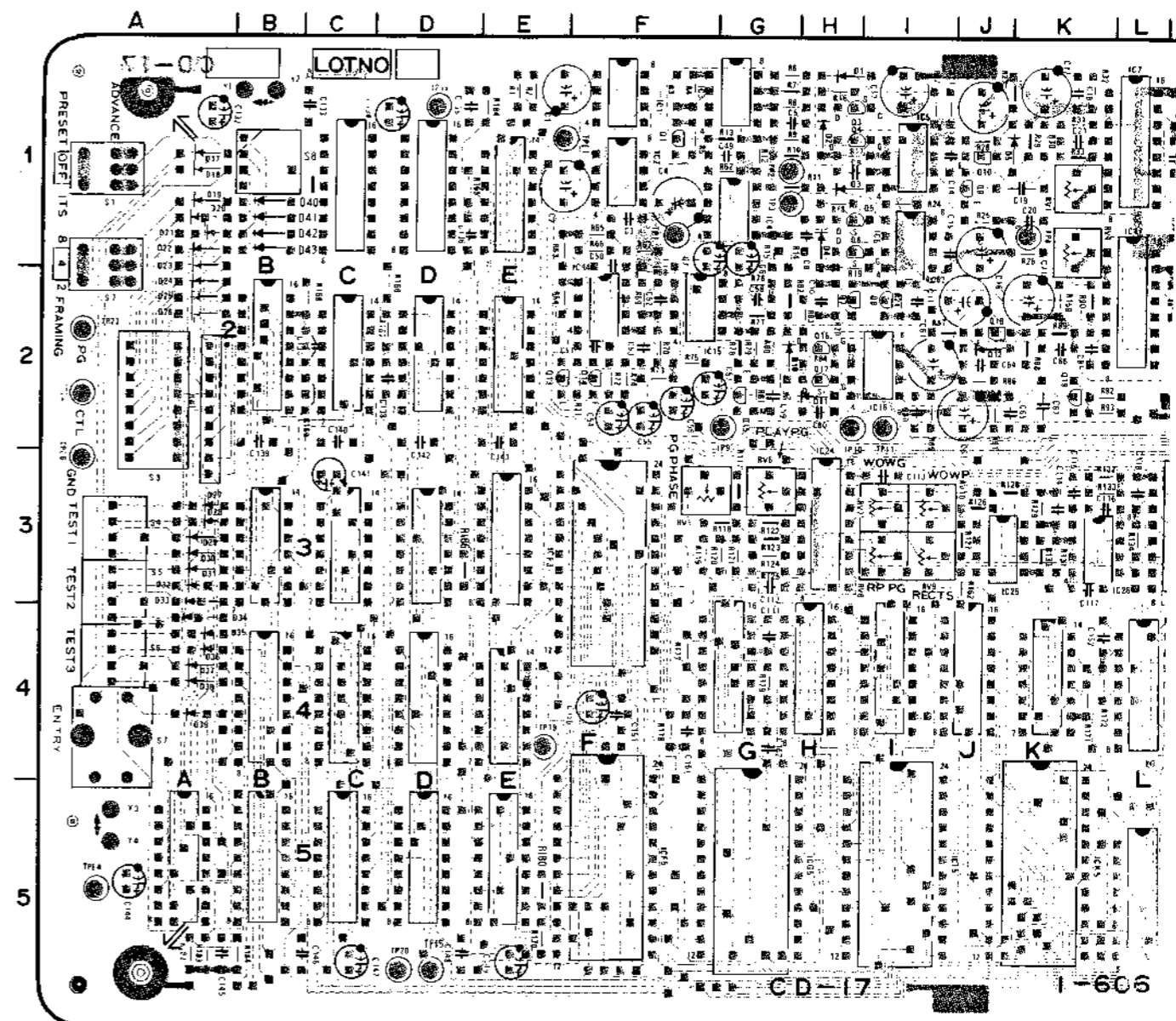
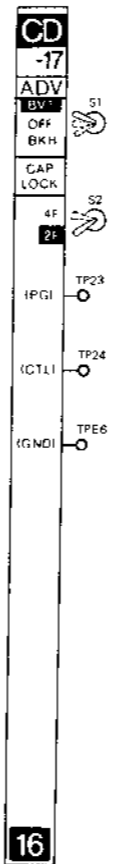
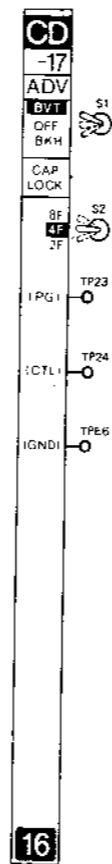
BVH-2500(J); #10001 -
 BVH-2500(U/C); #10001 -

CD-17 BOARD (1-606-705-11)

Component Side

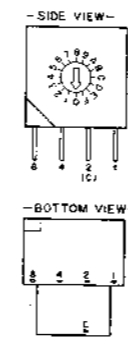
BVH-2000PS

BVH-2000 (J, U/C)



1-606-705-11 COMPONENT SIDE

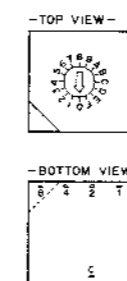
S4, 5, 6



TYPE S-1031

POS. NO.	PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1																
2	2																
3	3																
4	4																
5	5																
6	6																
7	7																
8	8																
9	9																
10	10																
11	11																
12	12																
13	13																
14	14																
15	15																
16	16																

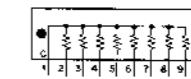
S8



TYPE S-1030

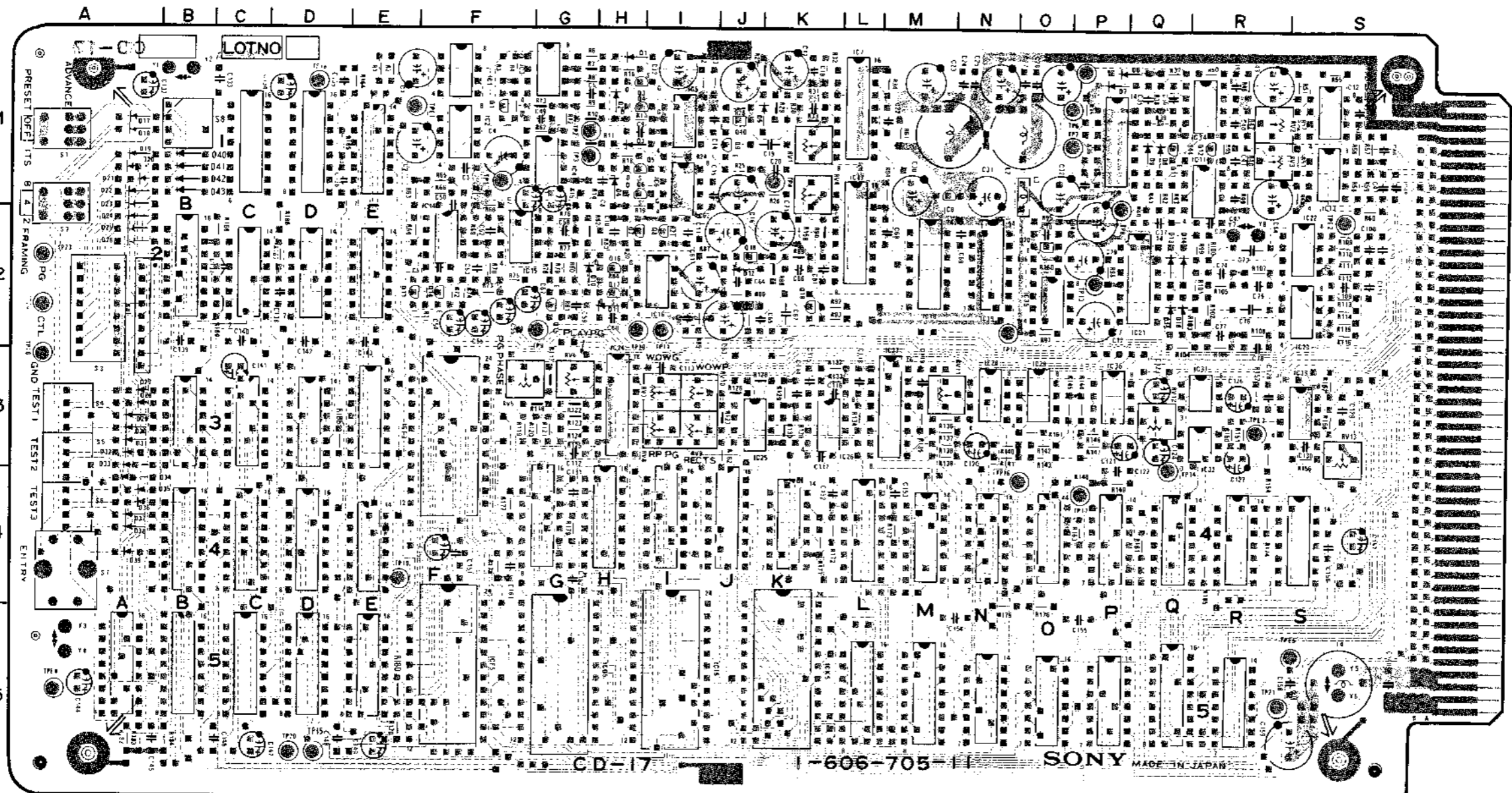
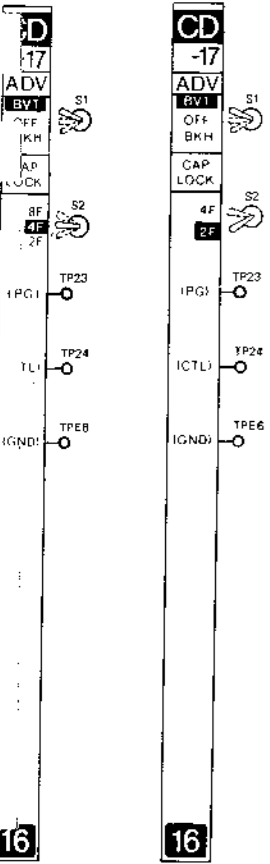
POS. NO.	PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1																
2	2																
3	3																
4	4																
5	5																
6	6																
7	7																
8	8																
9	9																
10	10																
11	11																
12	12																
13	13																
14	14																
15	15																
16	16																

RB1



B 1-2000PS

BVH-2000 (J, U/C)

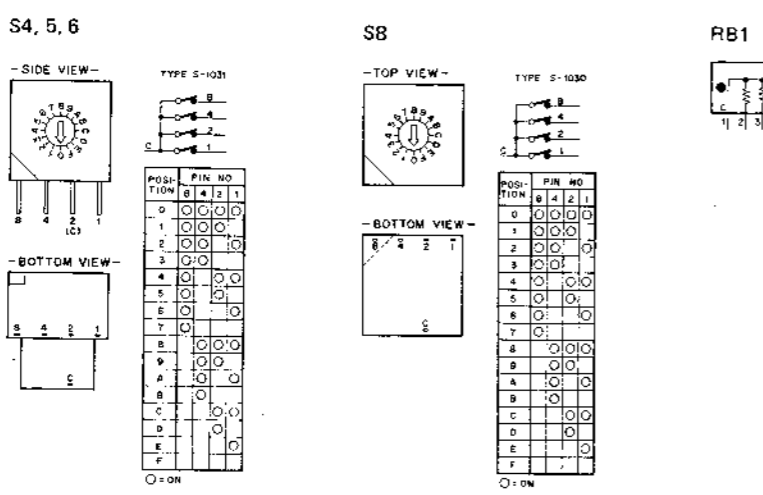


CD-17 (1-606-705-11)

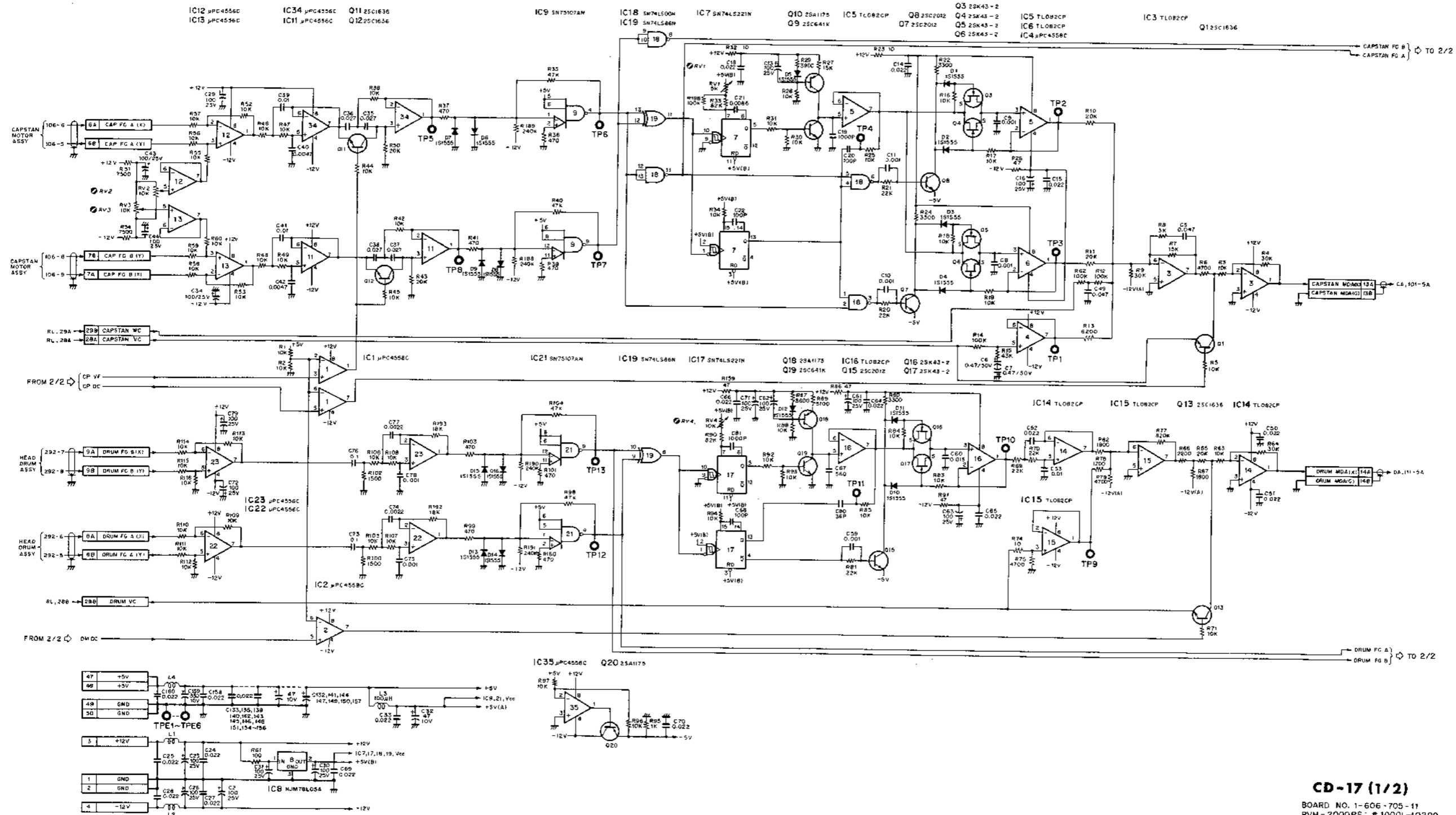
BVH-2000 (J, U/C)	IC14	2F	
BVH-2000PS	IC15	2F	
	IC16	2I	
D1	1H	IC17	2L
D2	1H	IC18	2M
D3	1H	IC19	2N
D4	1H	IC21	2O
D5	1K	IC23	2S
D6	1Q	IC25	2S
D7	1P	IC24	3H
D8	1Q	IC25	3J
D9	1Q	IC26	3K
D10	2Q		
D11	2H	(PS)	
D12	2J	IC27	3M
D13	2Q		
D14	2R	IC26	3N
D15	2Q	IC29	3O
D16	2R	IC31	3R
D17	1A	IC32	3R
D18	1A	IC33	3S
D19	1A	IC34	1R
D20	1A	IC35	2C
D21	1A		
D22	1A	(PS)	
D23	1A	IC36	3P
D24	2A		
D25	2A	Q1	1F
D26	2A	Q3	1H
D27	3A	Q4	1H
D28	3A	Q5	1H
D29	3A	Q6	1H
D30	3A	Q7	2H
D31	3A	Q8	2I
D32	3A	Q9	1J
D33	3A	Q10	1J
D34	4A	Q11	1Q
D35	4A	Q12	1R
D36	4A	Q13	2L
D37	4A	Q15	2G
D38	4A	Q16	2H
D39	4A	Q17	2H
D40	1B	Q18	2J
D41	1B	Q19	2K
D42	1B	Q20	2O
D43	1b		
(PS)	RB1	2A	
D44	4B	RV1	1K
		RV2	1R
IC1	1F	RV3	1R
IC1E	1F	RV4	1K
IC2	1F	RV5	3F
IC2B	1F	RV6	3G
IC2C	1F	RV7	5I
IC2D	1F	RV8	3I
IC2E	1F	RV9	5I
IC3	1G	RV10	5I
IC3B	1G	RV11	3M
IC3C	1G	RV12	3O
IC3D	1G	RV13	3S
IC3E	1G		
IC4	1G	S1	3A
IC4B	1G	S2	1A
IC4C	1G	S3	2A
IC4D	1G	S4	3A
IC4E	1G	S5	3A
IC4F	1G	S6	4A
IC4G	1G	S7	4A
IC4H	1G	S8	1H
IC4I	1G		
IC4J	1G	TP1	1P
IC4K	1G	TP2	1G
IC4L	1G	TP3	1G
IC4M	1G	TP4	1K
IC4N	1G	TP5	1P
IC4O	1G	TP6	1F
IC4P	1G	TP7	1F
IC4Q	1G	TP8	1P
IC4R	1G	TP9	2G
IC4S	1G	TP10	2H
IC5	1H	TP11	2I
IC5A	1H	TP12	2N
IC5B	1H	TP13	2P
IC5C	1H	TP14	3Q
IC5D	1H	TP15	5Q
IC5E	1H	TP16	4Q
IC5F	1H	TP17	4P
IC5G	1H	TP18	1D
IC5I	1H	TP19	4E
IC5K	1H	TP20	5D
IC5L	1H	TP21	5R
IC5M	1H	TP23	2A
IC5N	1H	TP24	2A
IC5O	1H		
IC5P	1H	TPE1	1E
IC5Q	1H	TPE2	2S
IC5R	1H	TPE3	3R
IC6	1I	TPE4	5A
IC7	1J	TP5	5S
IC8	1M	TPE6	5A
IC9	1P		
IC11	1R		
IC12	1S		
IC13	1S		

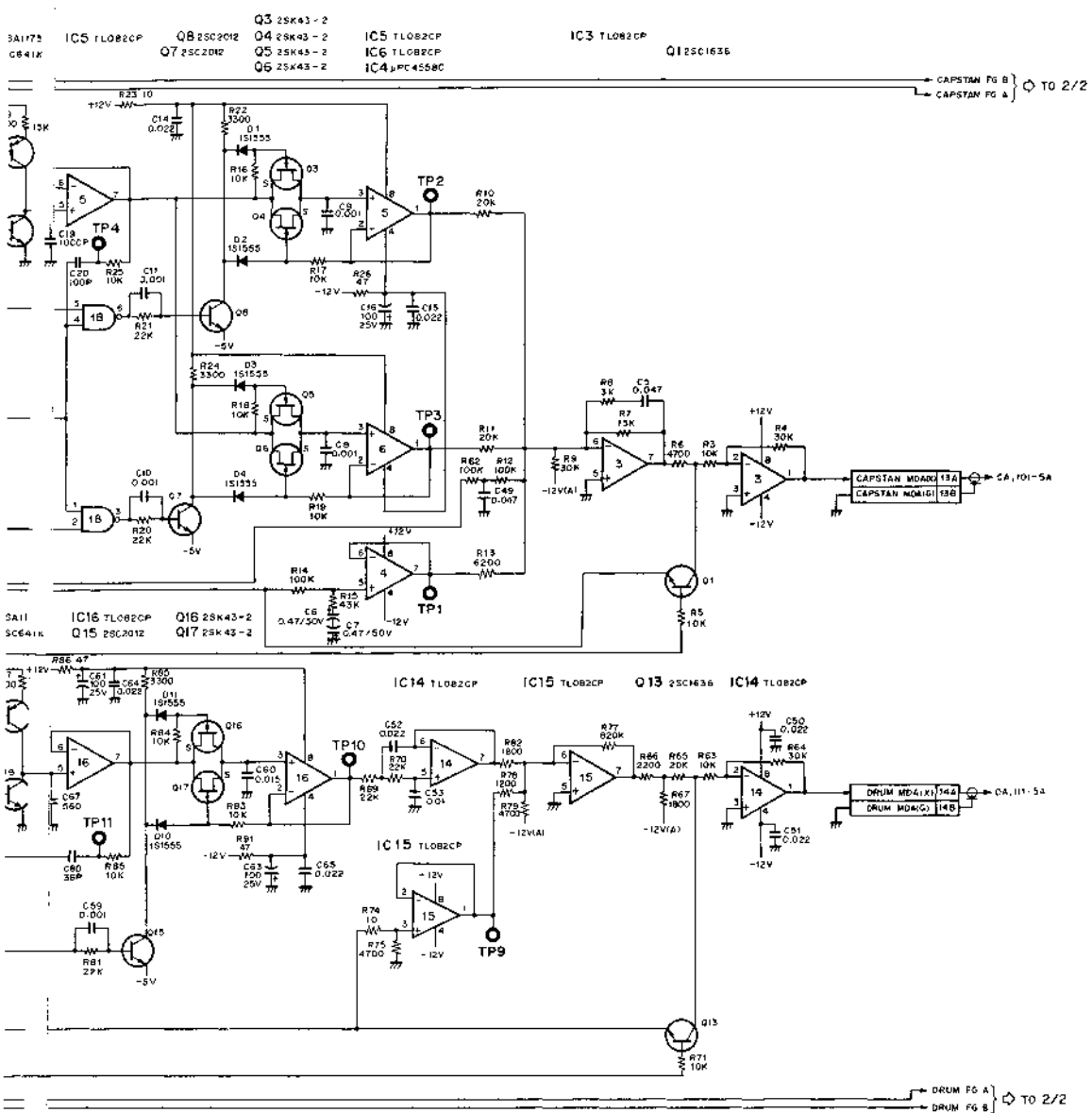
1-606-705-11 COMPONENT SIDE

1-606-705-11



CD-17 BOARD (1/2)
Capstan/Drum Servo



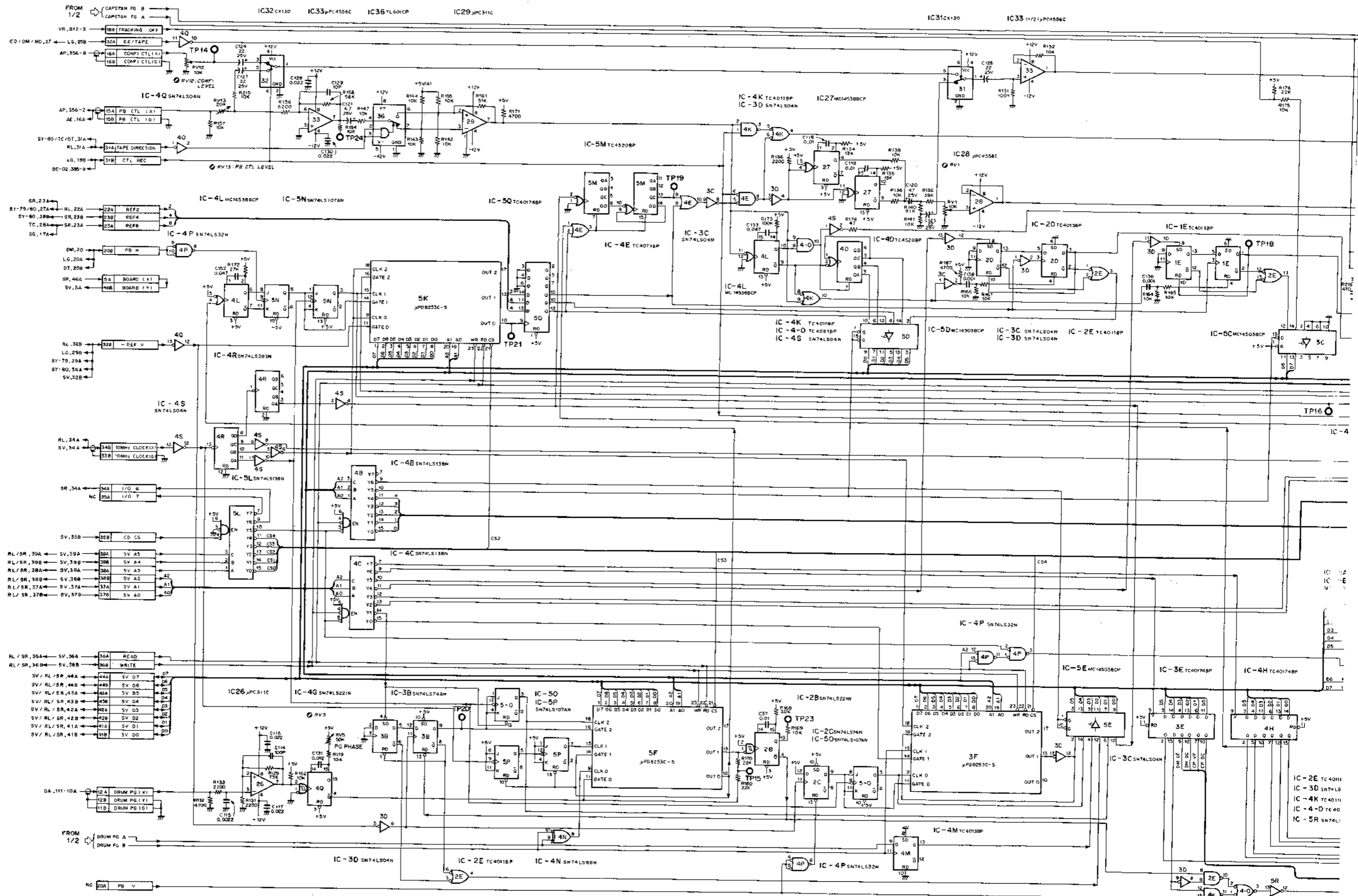


CD-17 (1/2)

BOARD NO. 1-606-705-11
BVH-2000PS; # 10001-10299

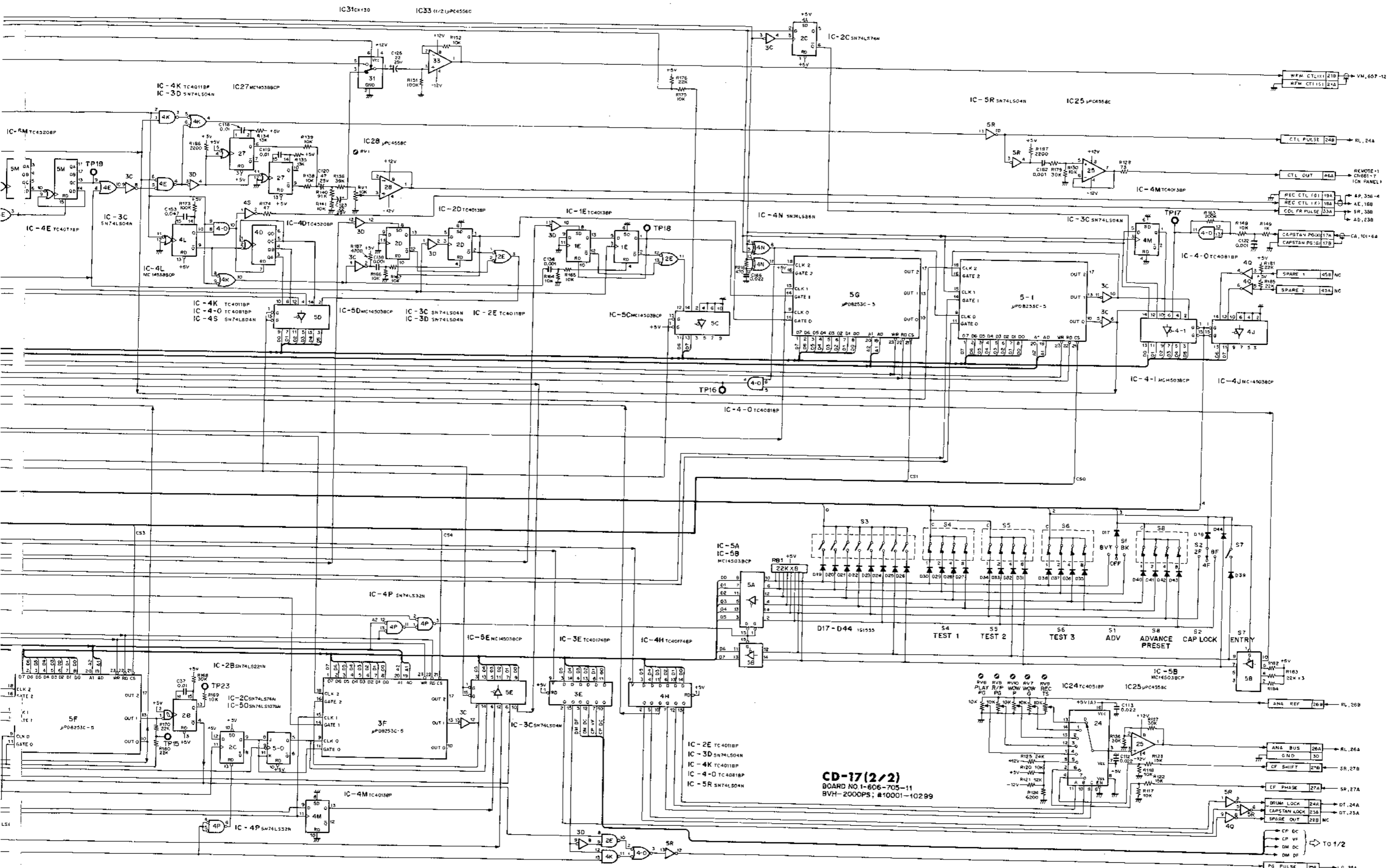
CD-17 BOARD (2/2)

Capstan/Drum Servo



C-87

C-88

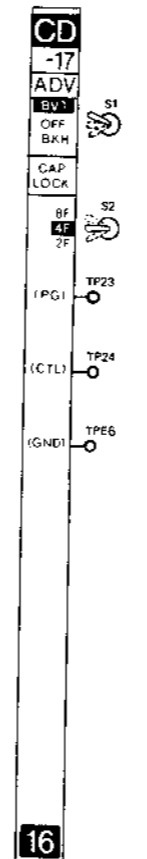


CD-17 (2/2)
 BOARD NO. 1-606-705-11
 BVH-2000PS; #10001-10299

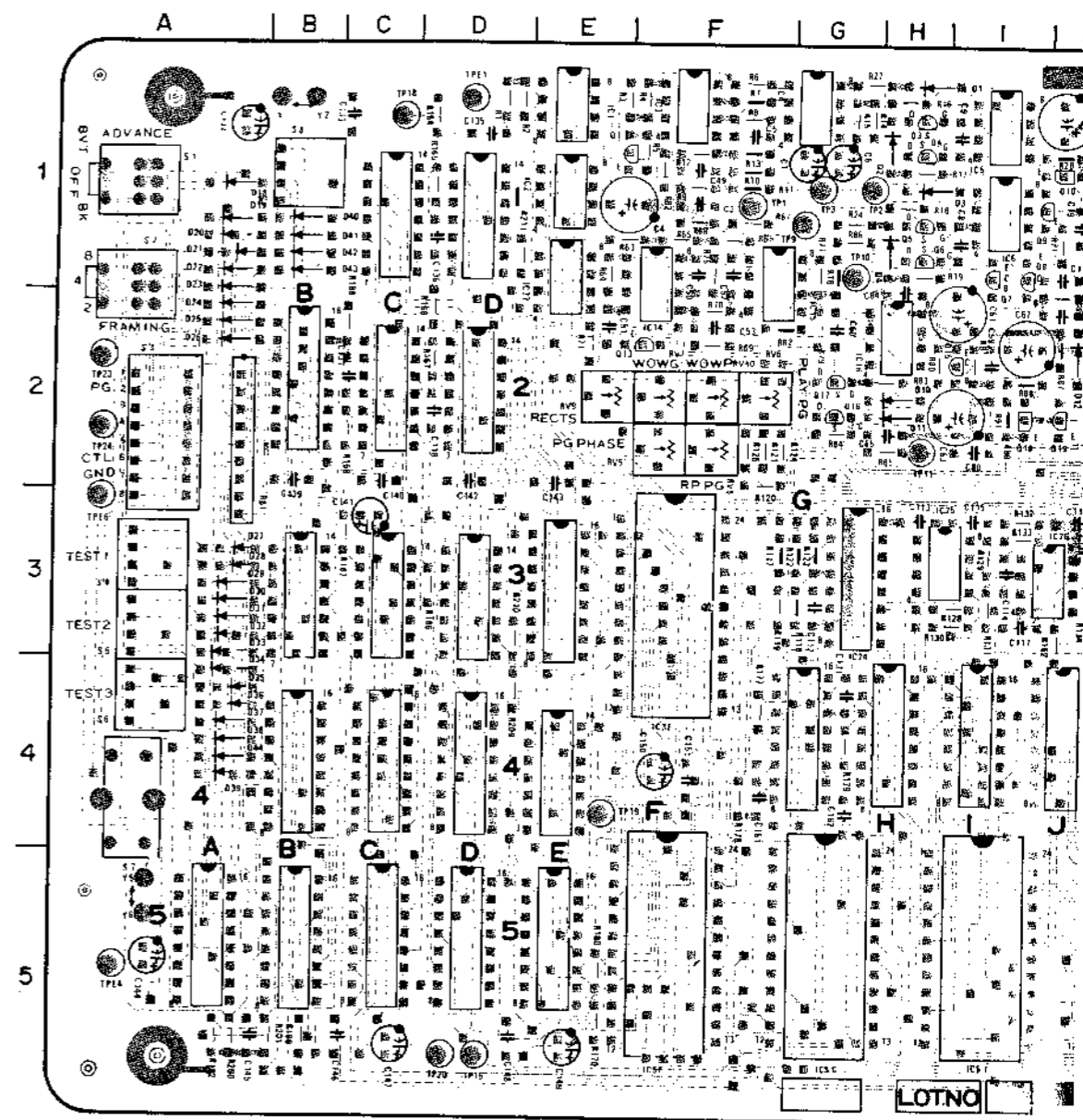
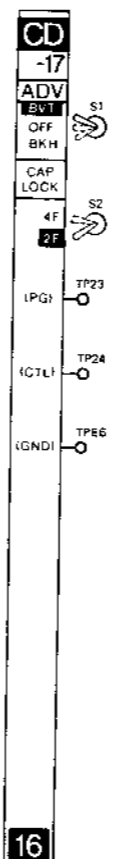
CD-17 BOARD (1-606-705-12)

Component Side

BVH-2000PS
BVH-2000PM

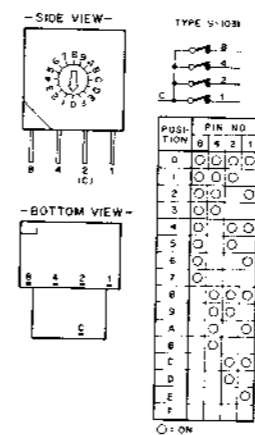


BVH-2000
(J, U/C)

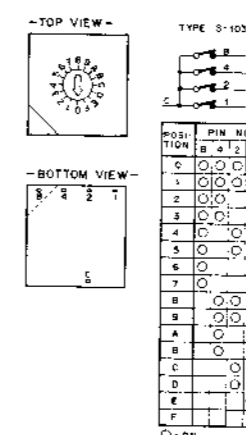


1-606-705-12 COMPONENT SIDE

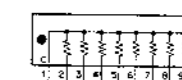
S4, 5, 6



S8

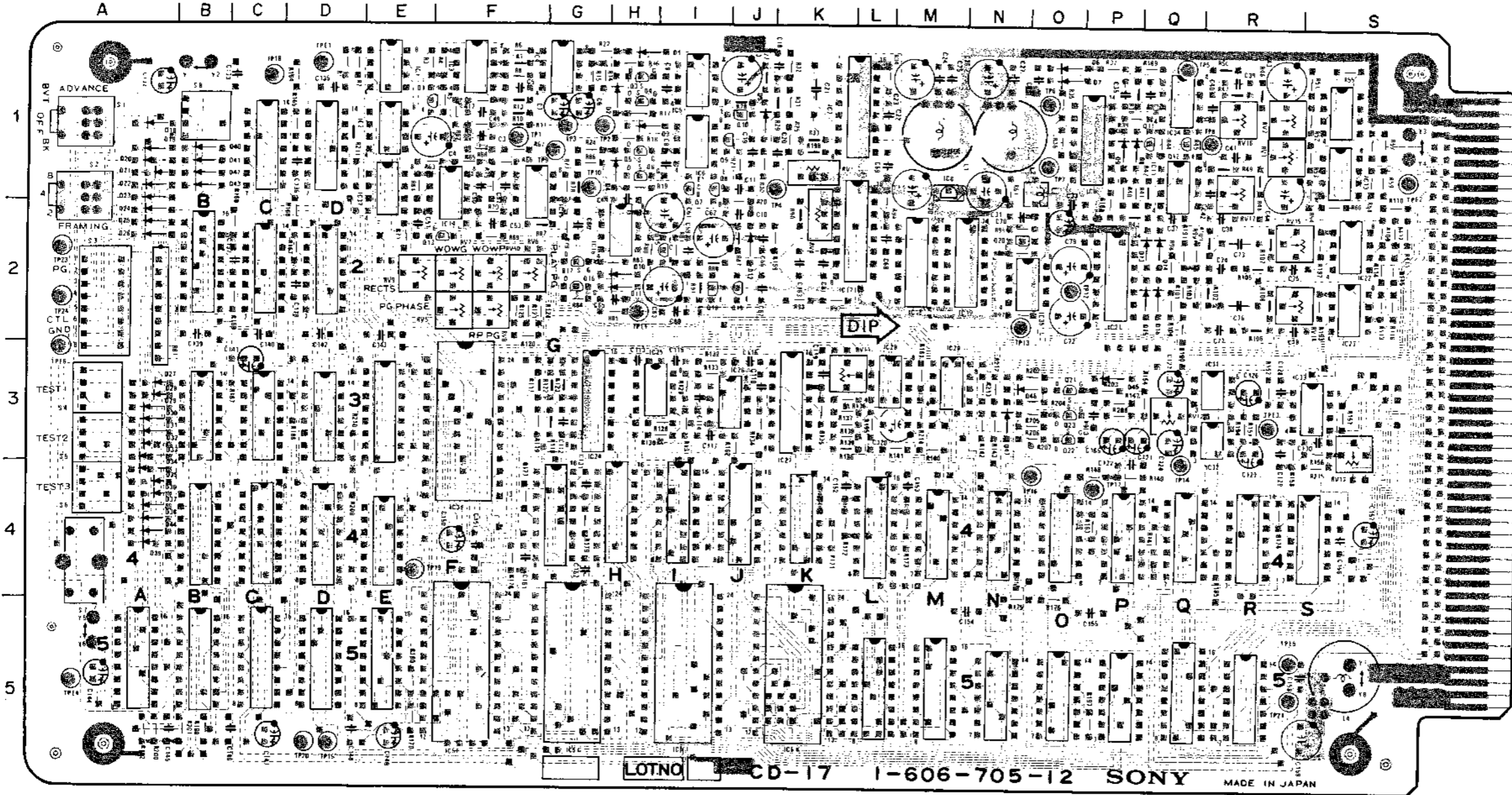
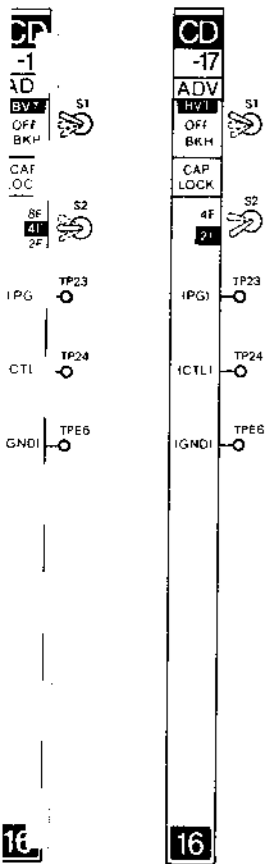


RB1



H-00PS
H-000PM

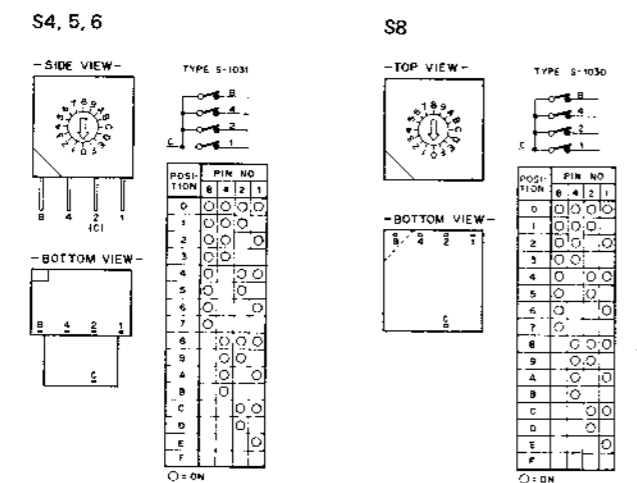
BVH-2000
(J, U/C)



CD-17 (1-606-705-12)

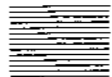
BVH-2000(J,U/C)	IC14	1F	
UWH-2000PS	IC15	1F	
	IC16	2N	
D1	1H	IC17	2L
D2	1H	IC18	2M
D3	1H	IC19	2N
D4	1H	IC21	2P
D5	1K	IC22	2S
D6	10	IC23	2S
D7	10	IC24	2G
D8	1P	IC25	3I
D9	1P	IC26	3J
D10	2H		
D11	2H	(PS)	
D12	2J	IC27	5K
D13	20		
D14	20	IC28	5L
D15	20	IC29	5M
D16	20	IC31	5R
D18	1A	IC32	5R
D19	1A	IC33	5S
D20	1A	IC34	1Q
D21	1A	IC35	2N
D22	1A	IC37	1E
D23	2A		
D25	2A	Q1	1E
D26	2A	Q2	1H
D27	3A	Q3	1H
D28	3A	Q4	1H
D29	3A	Q5	1H
D30	3A	Q6	1H
D31	3A	Q7	1I
D32	3A	Q8	1I
D33	3A	Q9	1I
D34	4A	Q10	1J
D35	4A	Q11	10
D36	4A	Q12	10
D37	4A	Q13	2F
D38	4A	Q14	2F
D39	4A	Q15	2I
D40	1B	Q16	2G
D41	1B	Q17	2G
D42	1B	Q18	2I
D43	1B	Q19	2J
D44	1B	Q20	2N
D45	1B	Q21	30
D46	1B	Q22	30
(PS)	(PS)		
D44	4A	Q23	30
D45	3P	RB1	2A
(PS)	(PS)		
D46	3N	RV1	1K
D47	5N	RV2	1R
		RV3	1R
		RV4	1K
		RV5	2F
		RV6	2F
IC1	1L	RV7	2F
IC1C		RV8	2F
IC1D		RV9	2E
IC2	1E	RV10	2F
IC2C		RV11	5K
IC2D		RV12	3Q
IC3	1F	RV13	3S
IC3B		RV14	2K
IC3C		RV15	2K
IC3D		RV16	1R
IC3E		RV17	1H
IC3F			
IC4	1G	S1	1A
IC4B		S2	1A
IC4C		S3	2A
IC4D		S4	3A
IC4E		S5	3A
IC4G		S6	4A
IC4H		S7	4A
IC4I		S8	1R
IC4J			
IC4K		TP1	1F
IC4L		TP2	1G
IC4M		TP3	1G
IC4N		TP4	1K
IC4O		TP5	1Q
IC4P		TP6	1Q
IC4Q		TP7	1Q
IC4R		TP8	1R
IC4S		TP9	1G
IC5	1I	TP10	1H
IC5A		TP11	2H
IC5B		TP12	20
IC5C		TP13	2N
IC5D		TP14	3Q
IC5E		TP15	50
IC5F		TP16	40
IC5G		TP17	4P
IC5I		TP18	1C
IC5K		TP19	4E
IC5L		TP20	50
IC5M		TP21	5R
IC5N		TP23	2A
IC5O		TP24	2A
IC5P			
IC5Q		TPE1	10
IC5R		TPE2	1S
IC6	1I		
IC7	1L	TPE3	3A
IC8	1M	TPE4	5A
IC9	1P	TPE5	5R
IC11	1Q	TPE6	5A
IC12	1S		
IC13	1S		

1-606-705-12 COMPONENT SIDE



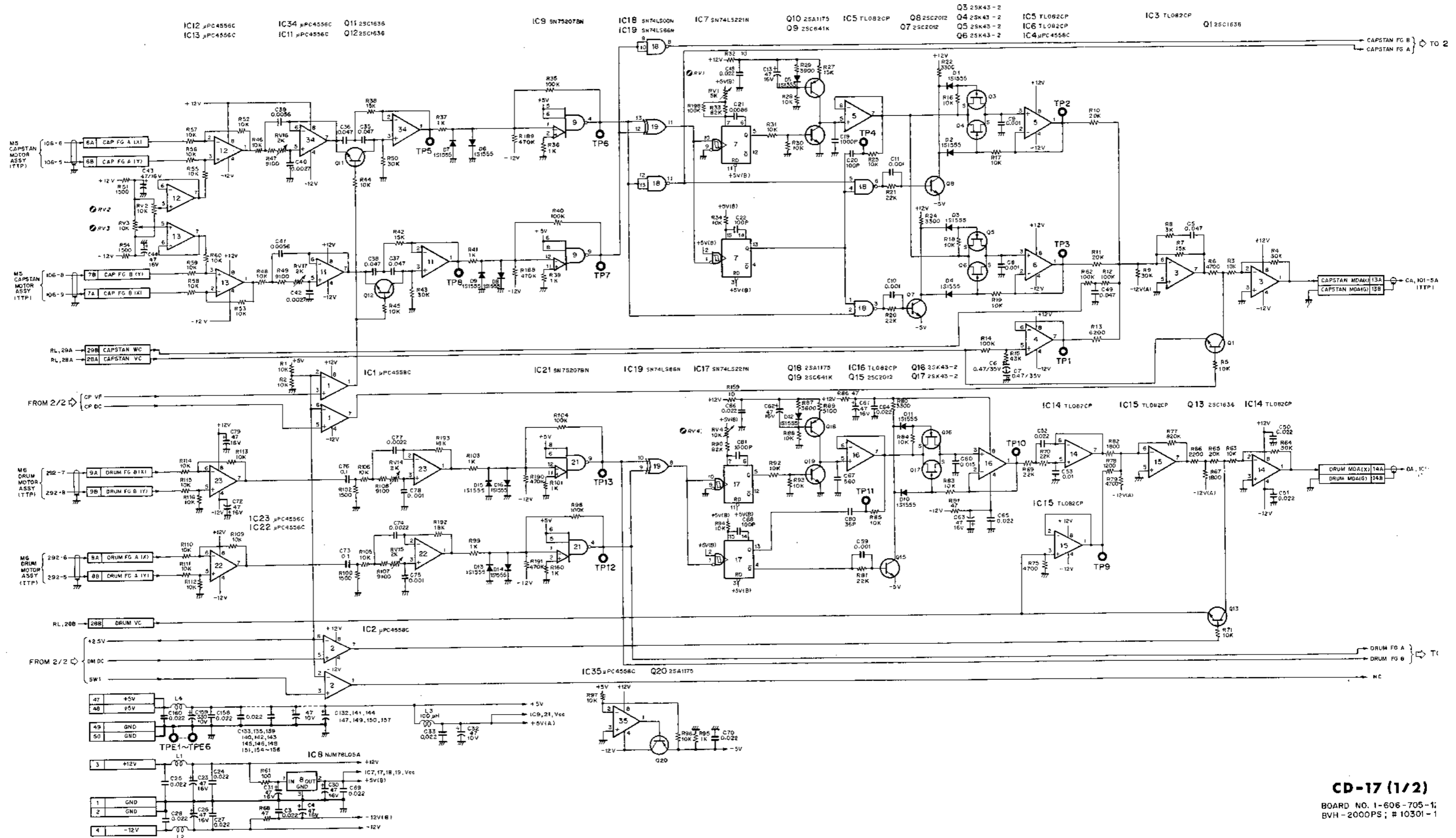
C-89(3/25)

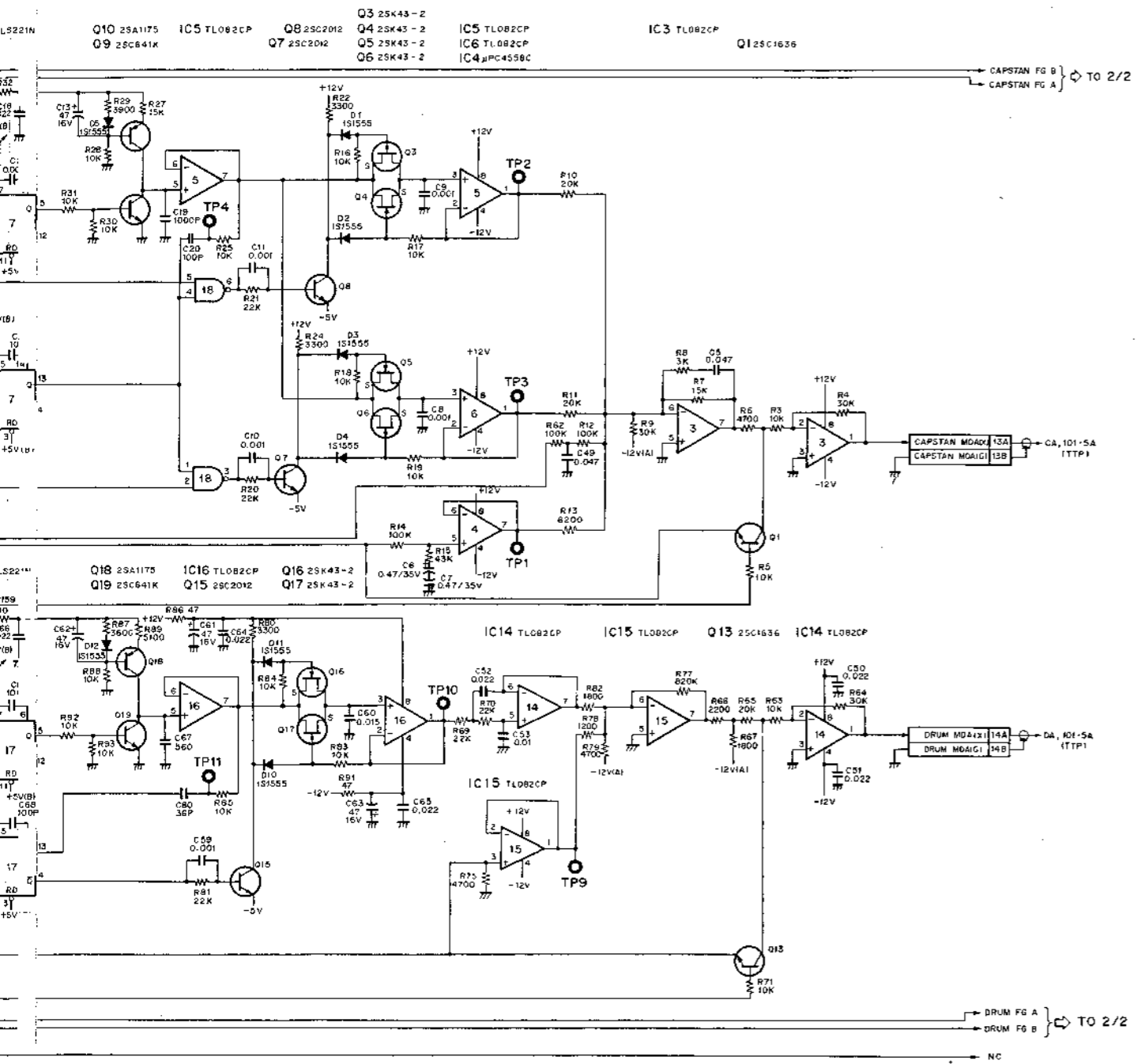
C-89(4/25)



CD-17 BOARD (1/2)

Capstan/Drum Servo

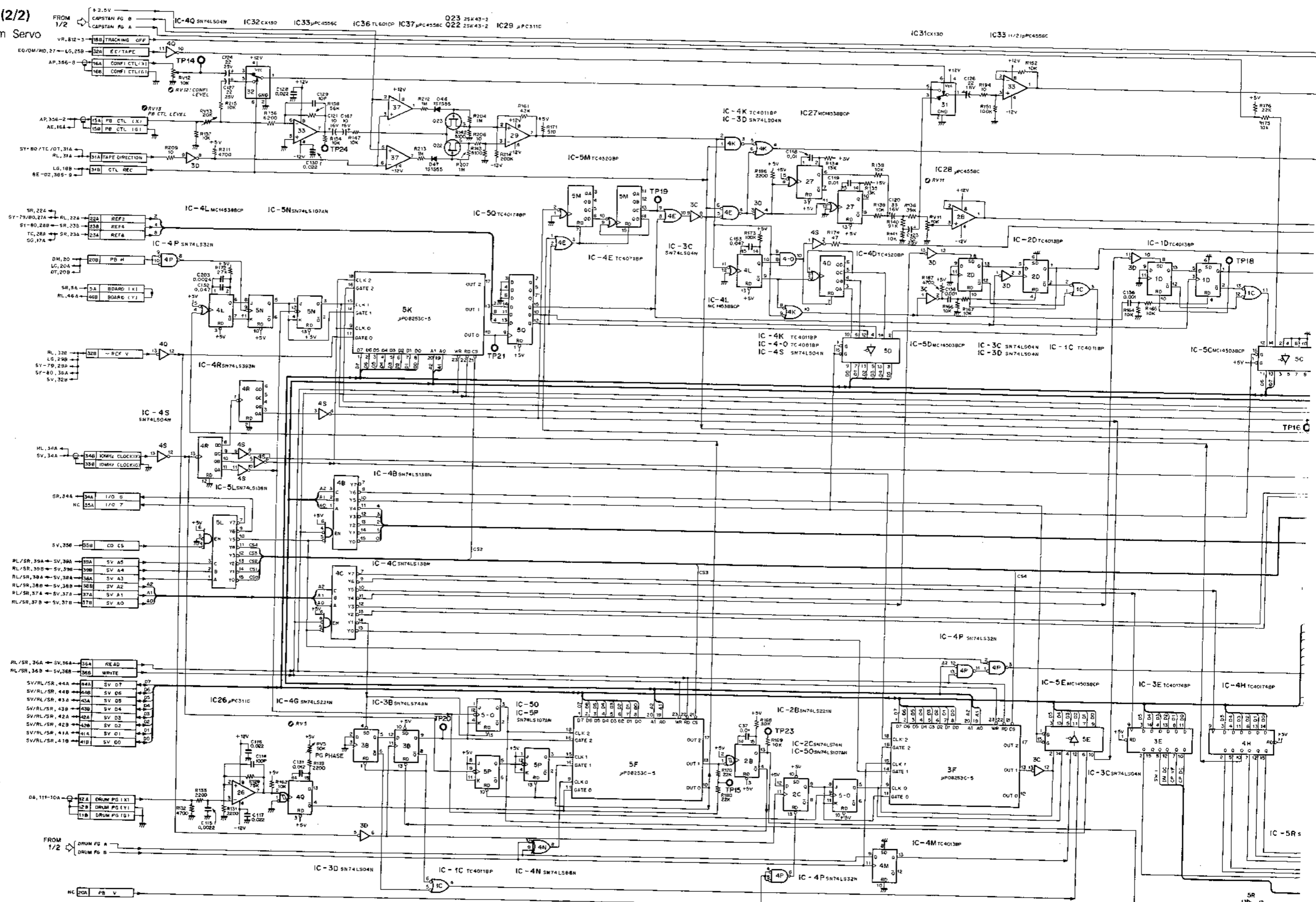


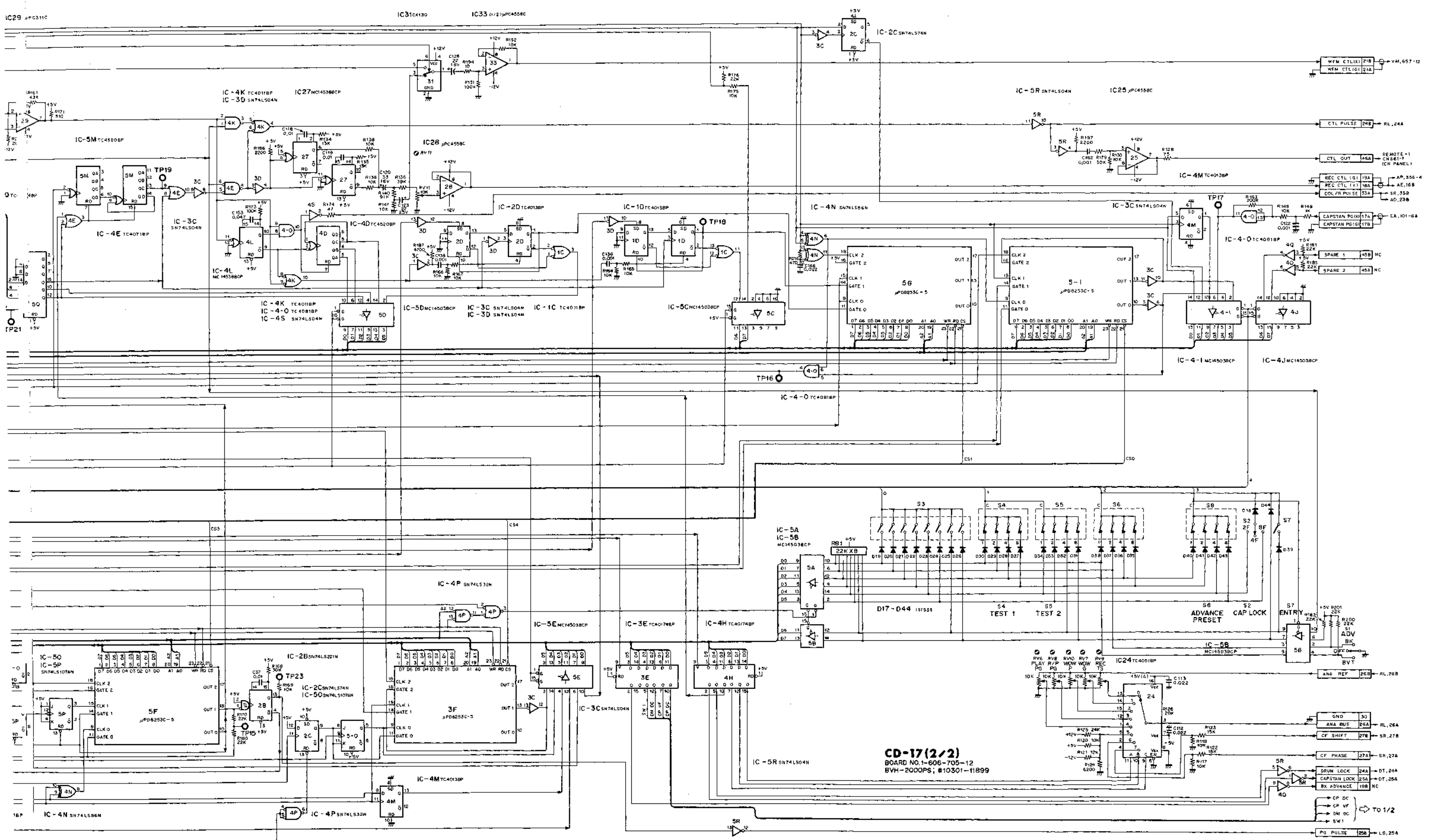


CD-17 (1/2)

BOARD NO. 1-606-705-12
BVH-2000PS; # 10301-11899

CD-17 BOARD (2/2)
Capstan/Drum Servo



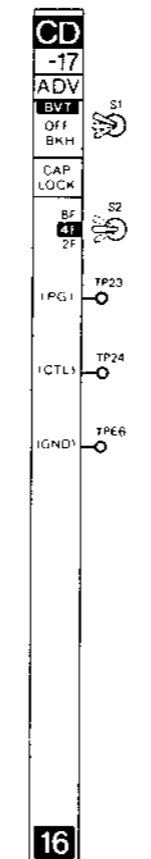


CD-17 (2/2)
 BOARD NO. 1-606-705-12
 BVH-2000PS; #10301-11899

CD-17 BOARD (1-606-705-13)

Component Side

BVH-2000PS
BVH-2000PM



BVH-2000(J,U/C)
BVH-2500(J,U/C)

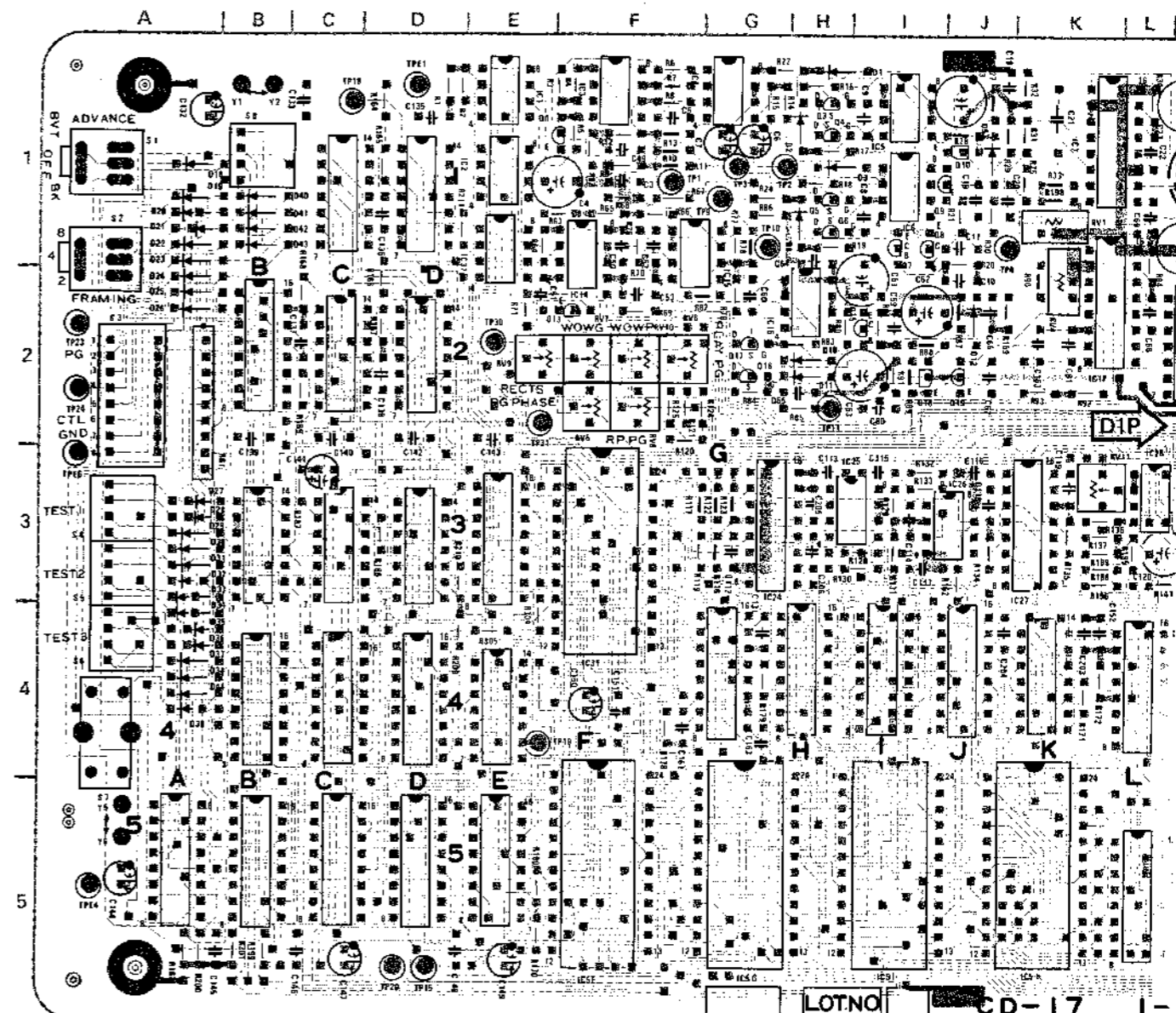
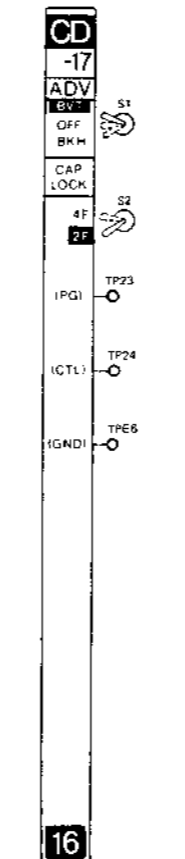
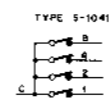
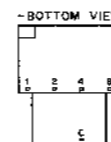
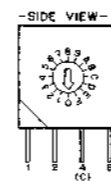


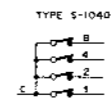
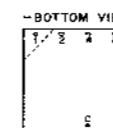
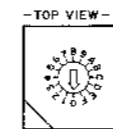
圖 1-606-705-13 COMPONENT SIDE

S4, 5, 6



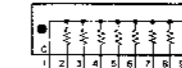
POSITION	PIN NO
0	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	10
A	11
B	12
C	13
D	14
E	15
F	16

S8

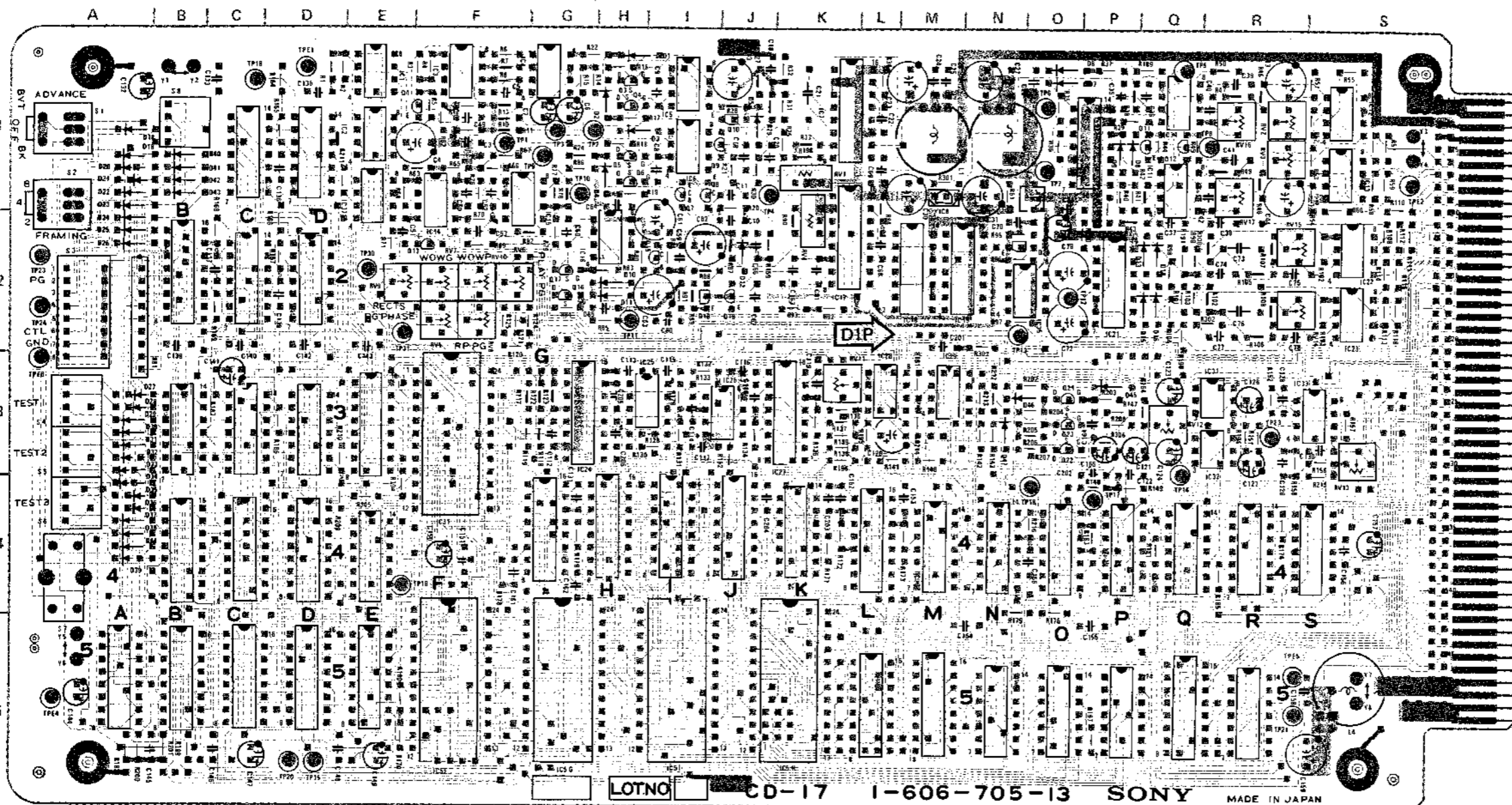
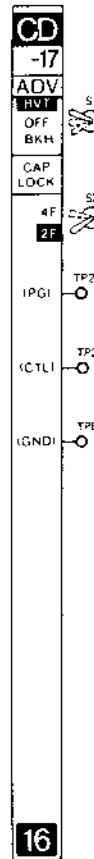


POSITION	PIN NO
0	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	10
A	11
B	12
C	13
D	14
E	15
F	16

RB1



BVH-2000(J,U/C)
BVH-2500(J,U/C)



1-606-705-13 COMPONENT SIDE

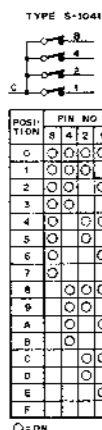
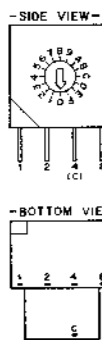
1-606-705-13 SOLDER SIDE

CD-17 (1-606-705-13 & UP)

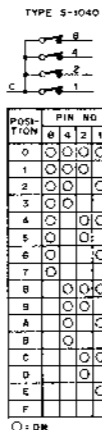
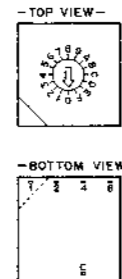
BVH-2000(J,U/C)
BVH-2000PS
BVH-2000PM
BVH-2500(J,U/C)

(PS)	IC14	1F
CV1	3R	IC15 1F
D1	1H	IC16 2H
D2	1B	IC17 2K
D3	1B	IC18 2M
D4	1H	IC19 2N
D5	1J	IC21 2P
D6	1O	IC22 2S
D7	1O	IC23 2S
D8	1P	IC24 3G
D9	1P	IC25 3H
D10	2H	IC26 3J
D11	2H	(PS)
D12	2J	IC27 3K
D13	2Q	
D14	2Q	IC28 3L
D15	2Q	IC29 3M
D16	2Q	IC31 3R
D18	1A	IC32 3R
D19	1A	IC33 3S
D20	1A	IC34 1Q
D21	1A	IC35 2O
D22	1A	IC37 1E
D23	1A	
D24	2A	Q1 1E
D25	2A	Q3 1B
D26	2A	Q4 1B
D27	1A	Q5 1B
D28	3A	Q6 1B
D29	3A	Q7 1T
D30	3A	Q8 1T
D31	3A	Q9 1T
D32	3A	Q10 1J
D33	3A	Q11 1O
D34	4A	Q12 1O
D35	4A	Q13 2F
D36	4A	Q15 2I
D37	4A	Q16 2G
D38	4A	Q17 2G
D39	4A	Q18 2I
D40	1B	Q19 3J
D41	1B	Q20 2N
D42	1B	Q21 3O
D43	1B	Q22 3O
(PS)	(PS)	Q23 3O
D44	4A	
D45	3P	RB1 2A
(PS)	(PS)	
D46	3N	RV1 1K
		RV2 1R
		RV3 1R
D47	3N	RV4 2K
		RV5 2P
		RV6 2F
IC1	1E	RV7 2F
IC1C		RV8 2F
IC1D		RV9 2E
IC2	1E	RV10 2F
IC2B		RV11 3K
IC2C		RV12 3Q
IC2D		RV13 3S
IC3	1F	RV14 2R
IC3B		RV15 2R
IC3C		RV16 1R
IC3D		RV17 1R
IC3E		
IC3F		
IC4	1G	S1 1A
IC4B		S2 1A
IC4C		S3 2A
IC4D		S4 3A
IC4E		S5 3A
IC4G		S6 4A
IC4H		S7 4A
IC4I		S8 1B
IC4J		
IC4K		TP1 1F
IC4L		TP2 1C
IC4M		TP3 1G
IC4N		TP4 1J
IC4O		TP5 1O
IC4P		TP6 1O
IC4Q		TP7 1O
IC4R		TP8 1R
IC4S		TP9 1G
IC5	1I	TP10 1G
IC5A		TP11 2H
IC5B		TP12 2O
IC5C		TP13 2N
IC5D		TP14 3O
IC5E		TP15 5D
IC5F		TP16 4O
IC5G		TP17 4P
IC5I		TP18 1C
IC5K		TP19 4E
IC5L		TP20 5D
IC5M		TP21 5R
IC5N		TP22 2A
IC5O		TP23 2A
IC5P		TP24 2A
IC5Q		TP30 2E
IC5R		TP31 2E
IC6	1I	TPE1 1D
IC7	1K	TPE2 1G
IC8	1M	TPE3 3R
IC9	1P	TPE4 5A
IC11	1O	TPE5 5R
IC12	1S	TPE6 3A
IC13	1S	

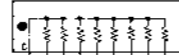
S4, 5, 6



S8



RB1



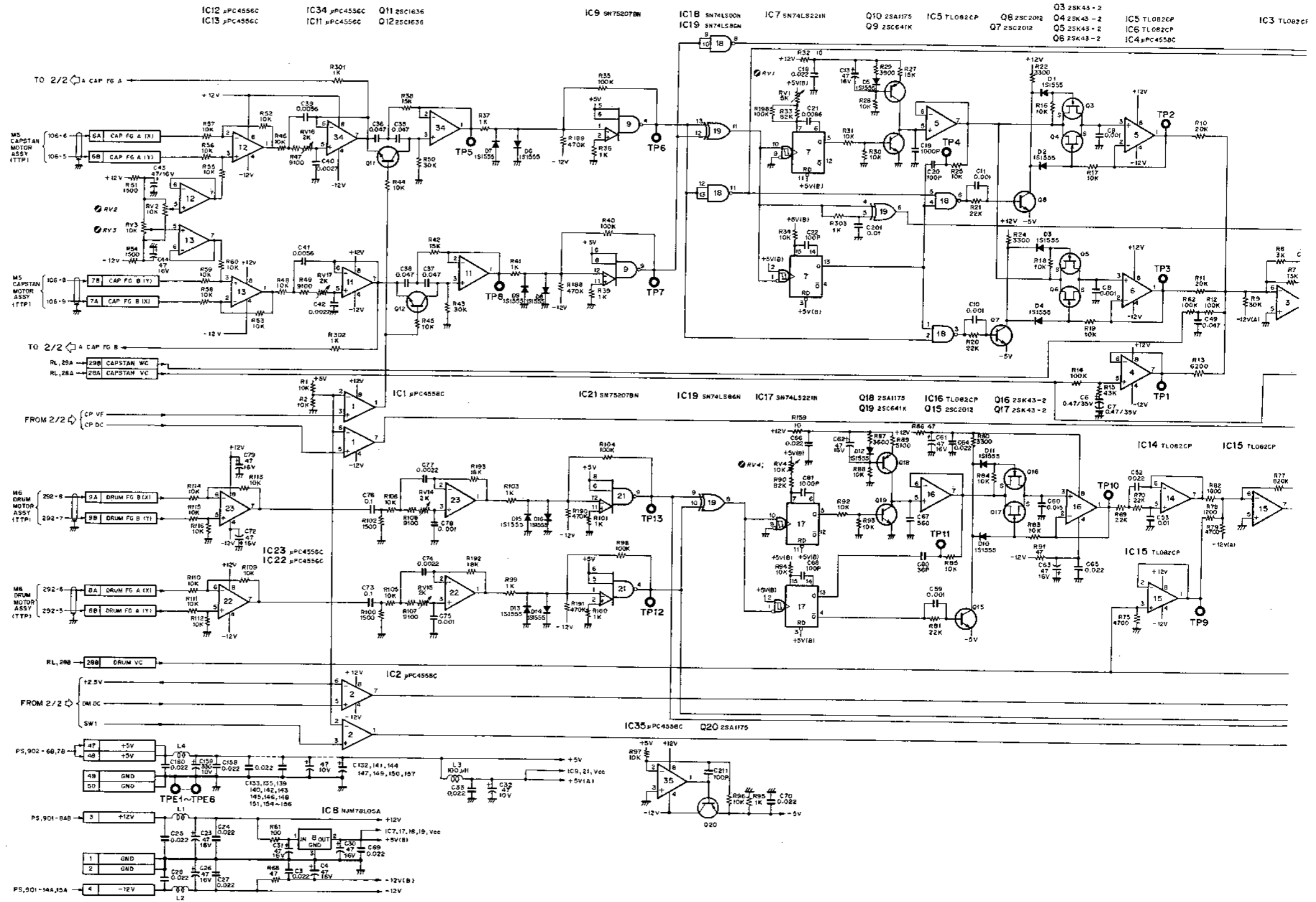
C-89(15/25)

C-89(16/25)

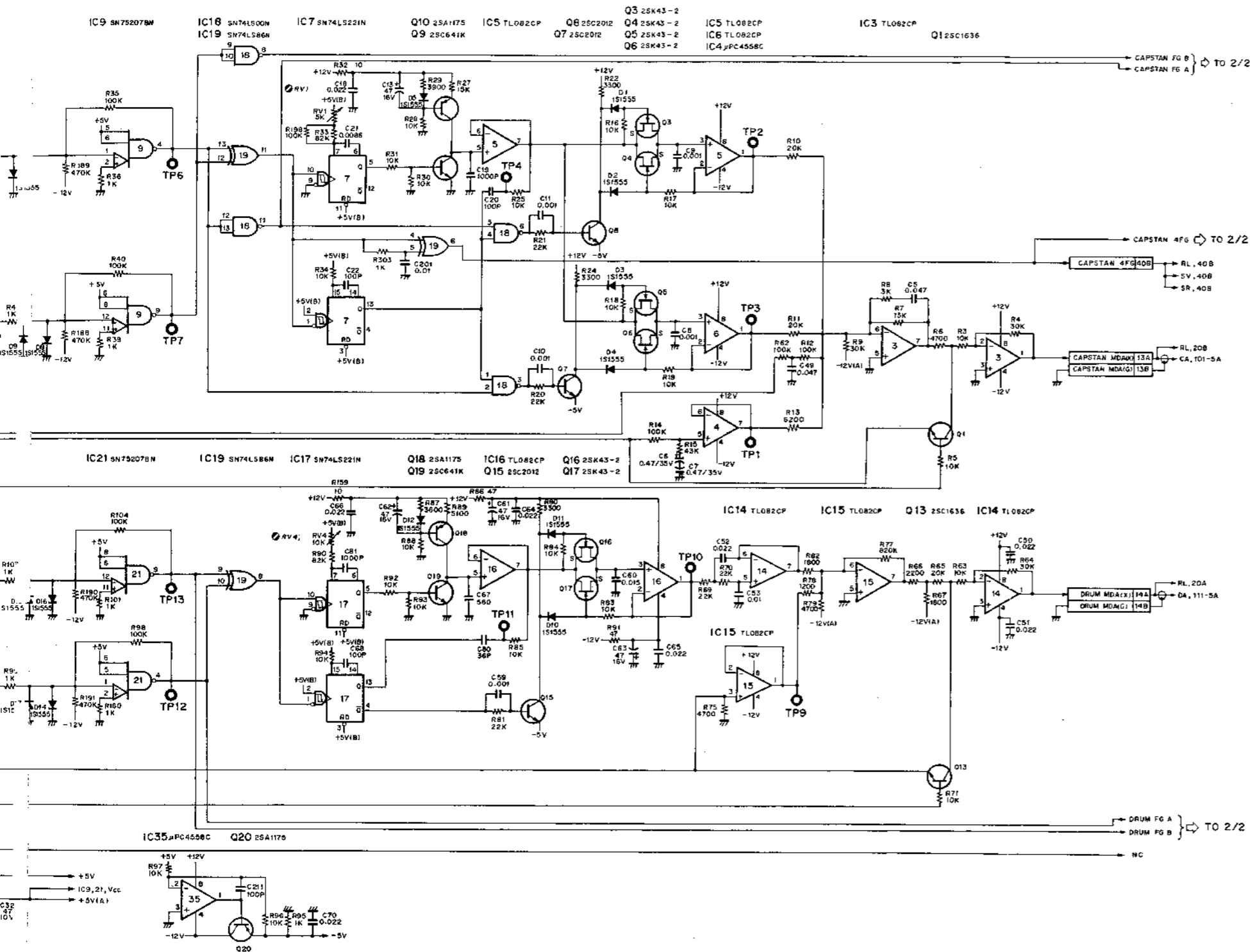
C-89(16/25)
C-89(15/25)
C-89(14/25)
H-2000/PS
C-116
C-115
C-114
BVH-2500



CD-17 BOARD (1/2)
Capstan/Drum Servo



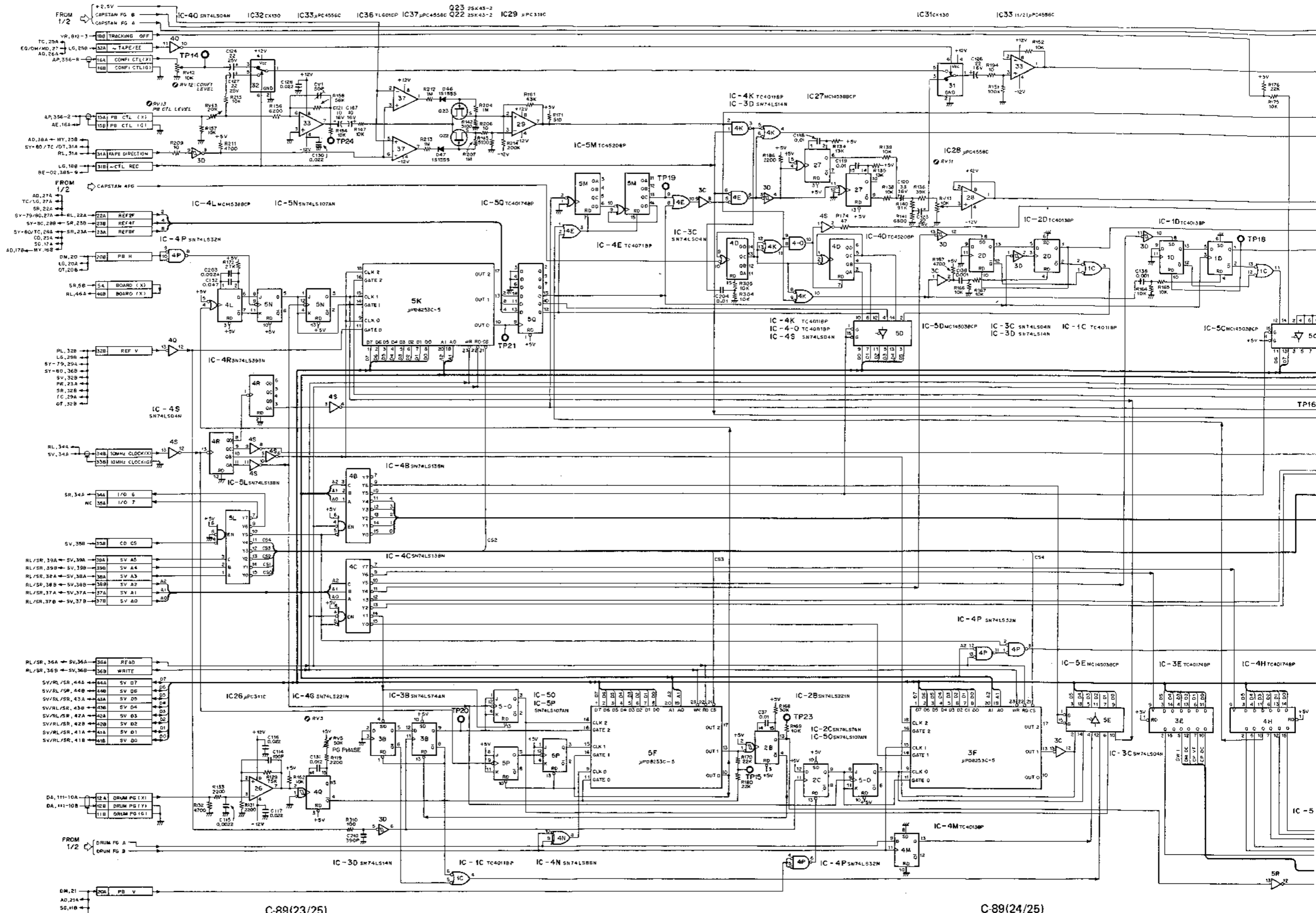
C-89(19/25) C-89(18/25) C-89(17/25) C-89(16/25) C-89(15/25) C-89(14/25) C-89(13/25) C-89(12/25) C-89(11/25) C-89(10/25) C-89(9/25) C-89(8/25) C-89(7/25) C-89(6/25) C-89(5/25) C-89(4/25) C-89(3/25) C-89(2/25) C-89(1/25) BVH-2500 C-119 C-118 C-117



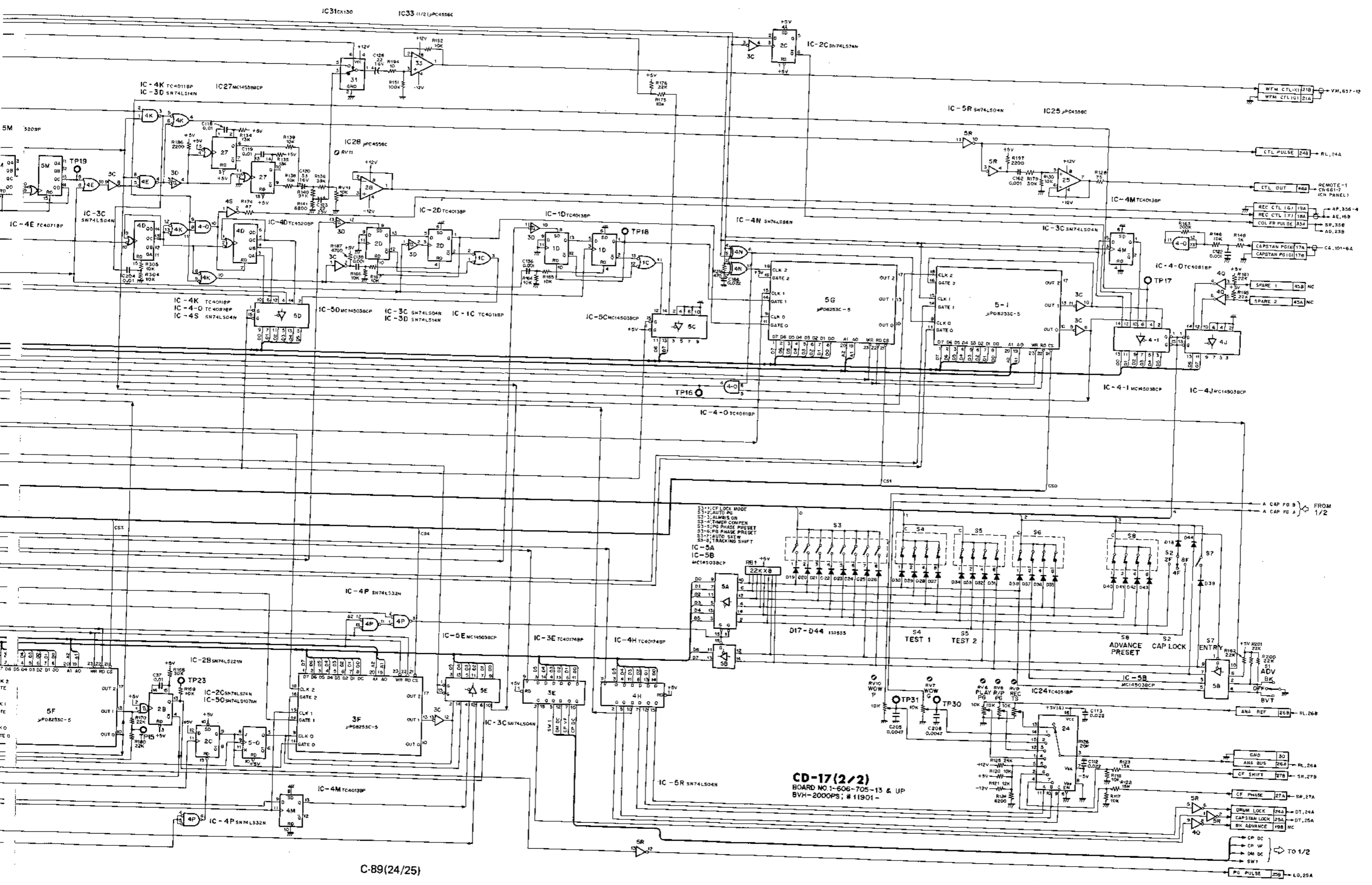
CD-17 (1/2)
 BOARD NO. 1-606-705-13 & UP
 BVH-2000PS; #11901-

CD-17 BOARD (2/2)

Capstan/Drum Servo



C-89(25/25)
 C-89(24/25)
 C-89(23/25)
 BVH-2000/PS
 C-125
 C-124
 C-123
 C-122
 C-121
 BVH-2500



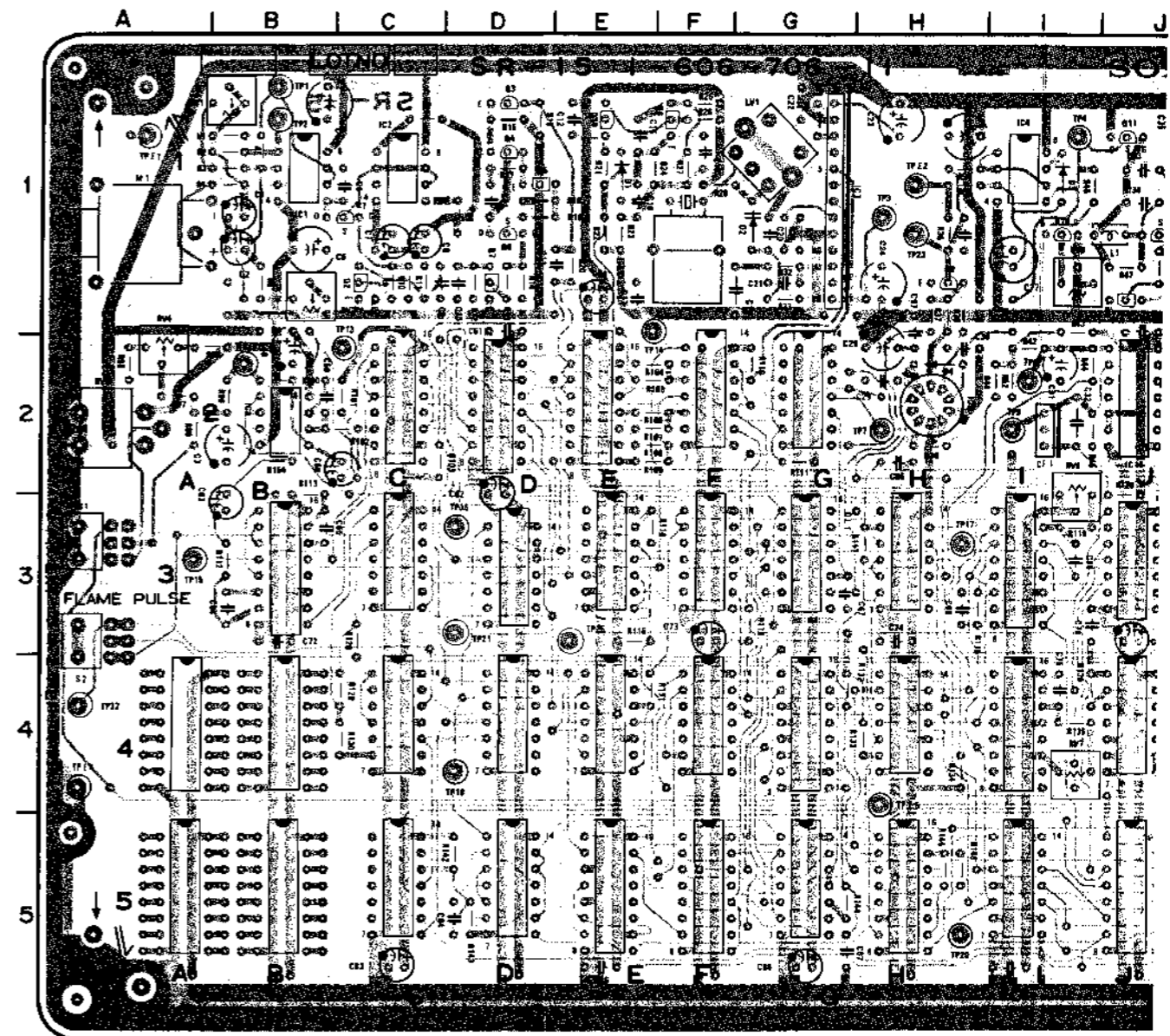
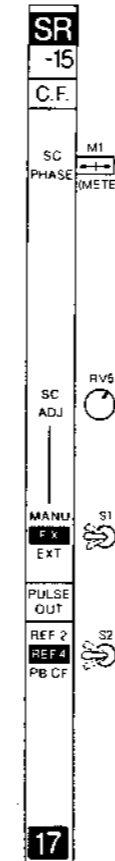
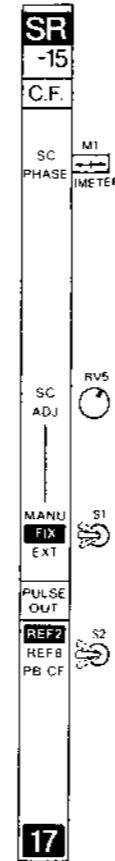
C-89(24/25)

C-89(25/25)

SR-15 BOARD (1-606-706-11)
Component Side

BVH-2000PS

BVH-2000
(J, U/C)



1-606-706-11 COMPONENT SIDE



BVH-2000
(J, U/C)

SR
-15
C.F.

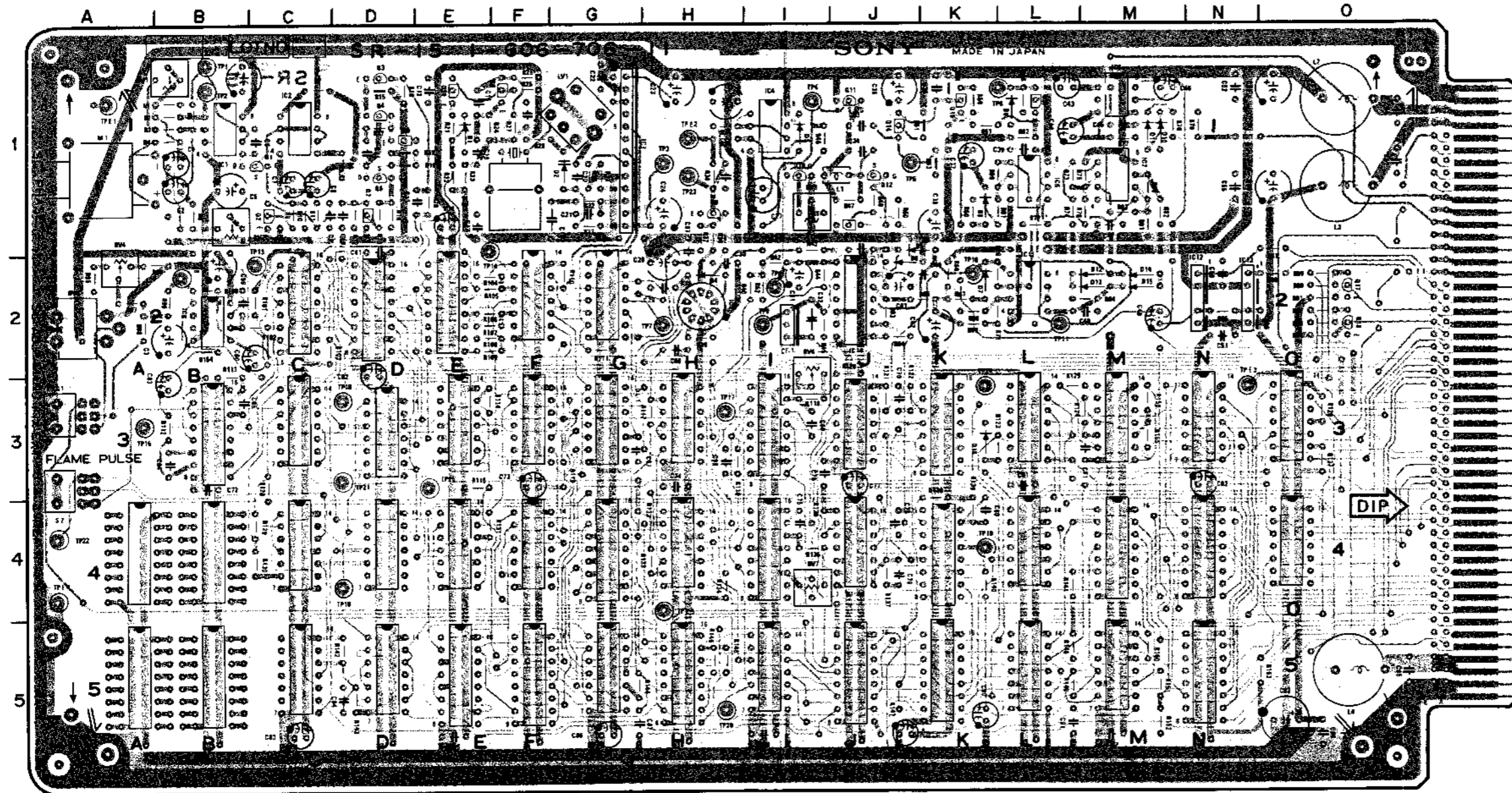
SC PHASE
M1
(METER)

SC ADJ.
RV5

MANU
EXT

PULSE
OUT
REF 2
REF 1
PE CF

17



SR-15 (1-606-706-11)

BVH-2000(J, U/C)
BVH-2000PS

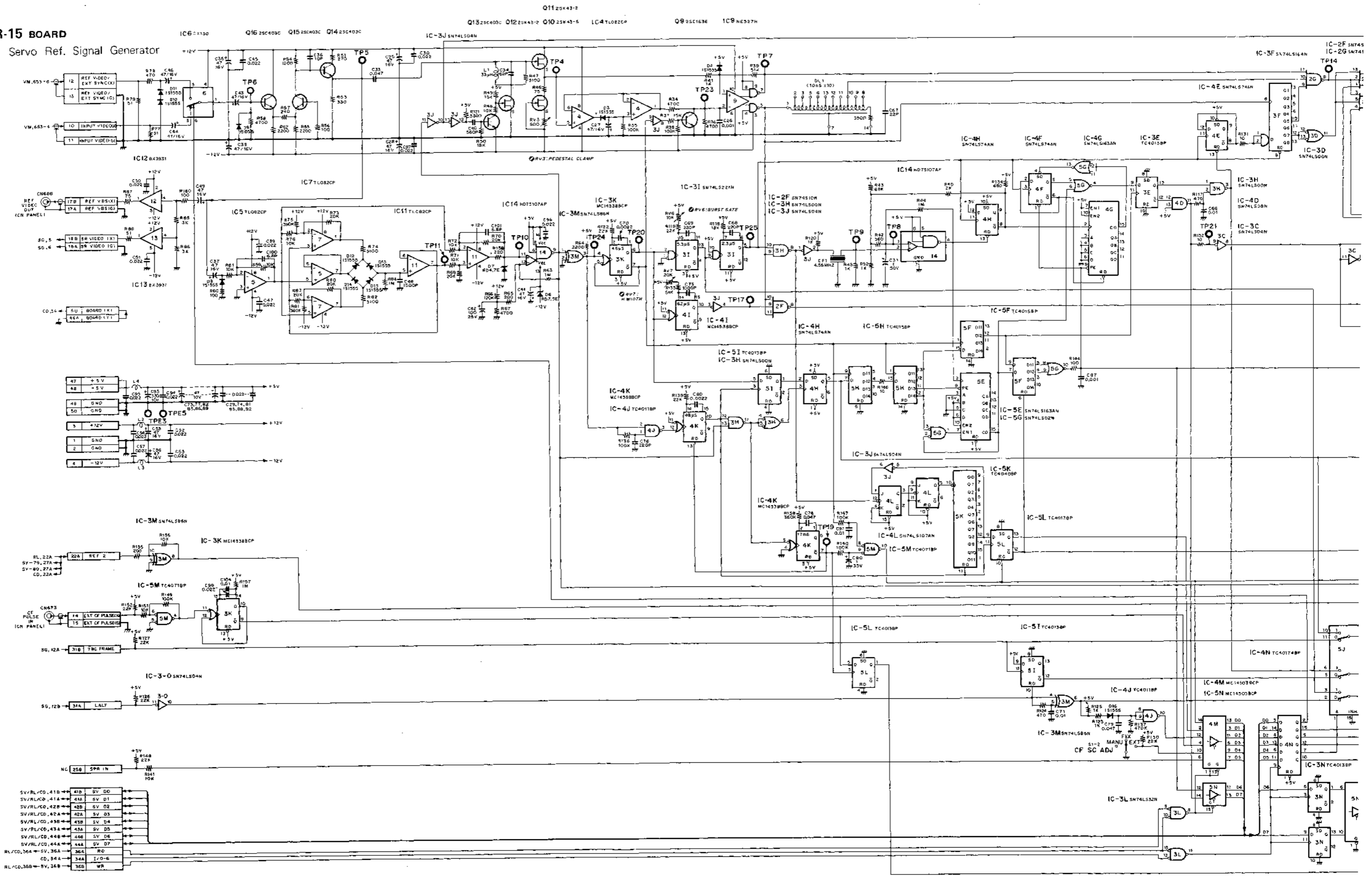
U1	1E	IC6	1M
D2	1G	IC7	1M
D3	1I	IC8	2B
D4	2H	IC9	2H
D5	1I	IC10	2L
D6	2J	IC11	2L
D7	2K	IC12	2N
D8	1K	IC13	2N
D9	1L	IC14	2J
D10	1M	LV1	1G
D11	1M	M1	1A
D12	2M	Q1	1C
D13	2M	Q2	1C
D14	2M	Q3	1D
D15	2M	Q4	1D
D16	3K	Q5	1D
DL	3G	Q6	1D
		Q7	1D
		Q8	1E
		Q9	1H
IC1	1B	Q10	1I
IC2	1C	Q11	1J
IC2C		Q12	1J
IC2D		Q13	1J
IC2E		Q14	1J
IC2F		Q15	1K
IC2G		Q16	1L
IC3	1G	Q17	20
IC3B		Q18	20
IC3C		Q19	1E
IC3D			
(PS)		RV1	1B
IC3E		RV2	1B
		RV3	1I
IC3F		RV4	2A
IC3H		RV5	2A
IC3I		RV6	3I
IC3J		RV7	4J
IC3K			
IC3L		S1	3A
IC3M		S2	3A
IC3N			
IC3O			
IC4	1I	TP1	1B
IC4B		TP2	1B
IC4C		TP3	1H
IC4D		TP4	1I
IC4E		TP5	1J
		TP6	1L
		TP7	2H
(PS)			
IC4F		(PS)	
IC4G		TP8	2I
		TP9	2I
IC4H		TP10	2K
IC4I		TP11	2L
IC4J		TP12	2B
IC4K		TP13	2C
IC4L		TP14	1F
IC4M		TP15	3A
IC4N		TP16	3D
IC4O		TP17	3M
IC5	1L	TP18	4D
IC5C		TP19	4K
IC5D		TP20	5H
(PS)		TP21	5D
IC5E		TP22	4A
IC5F		TP23	1H
IC5G		TP24	3K
IC5H		TP25	3E
IC5I		TPE1	1A
IC5J		TPE2	1H
IC5K		TPE3	3N
IC5L		TPE4	4A
IC5M		TPE5	4H
IC5N			
		X1	1F

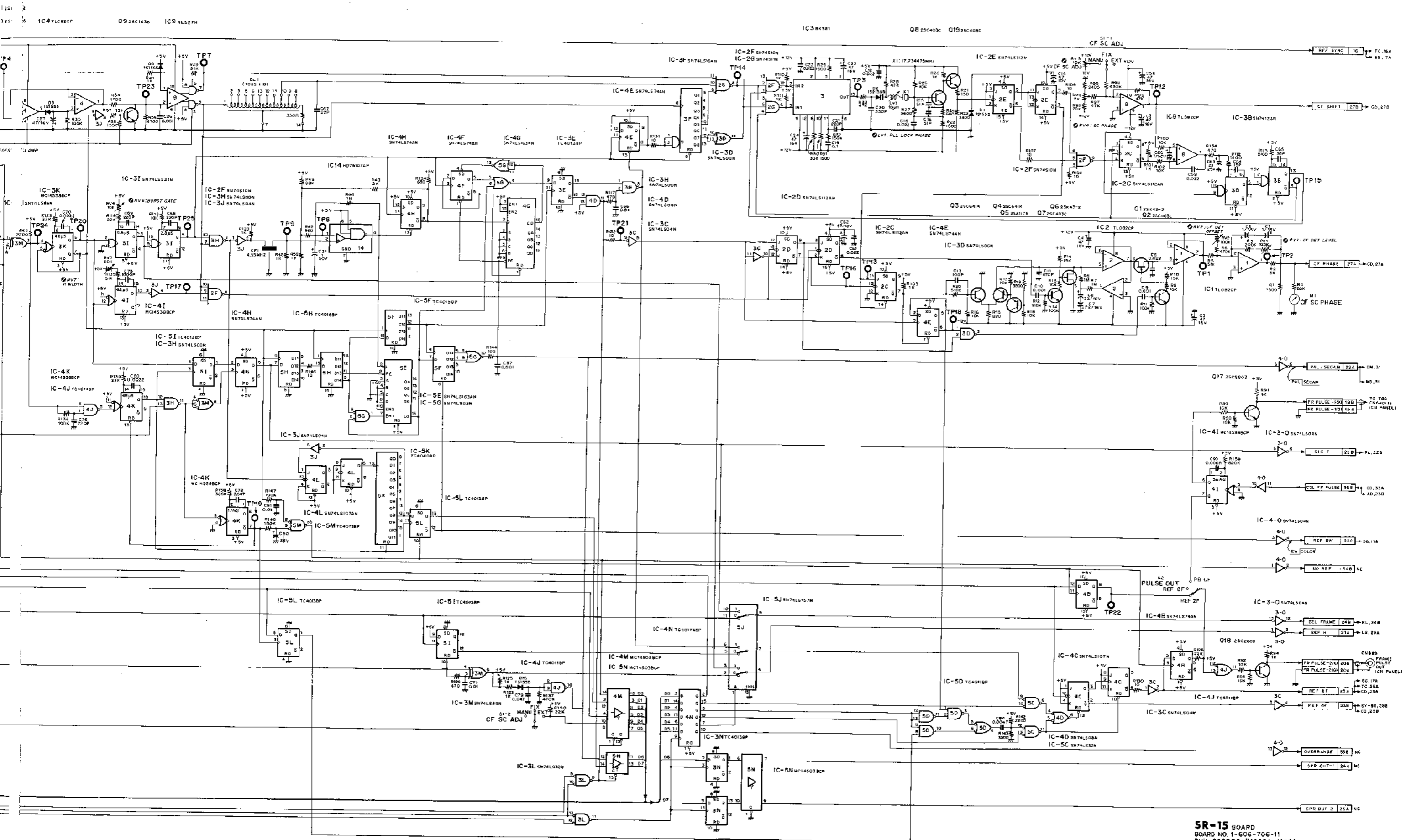
1-606-706-11 COMPONENT SIDE

1-606-706-11

SR-15 BOARD

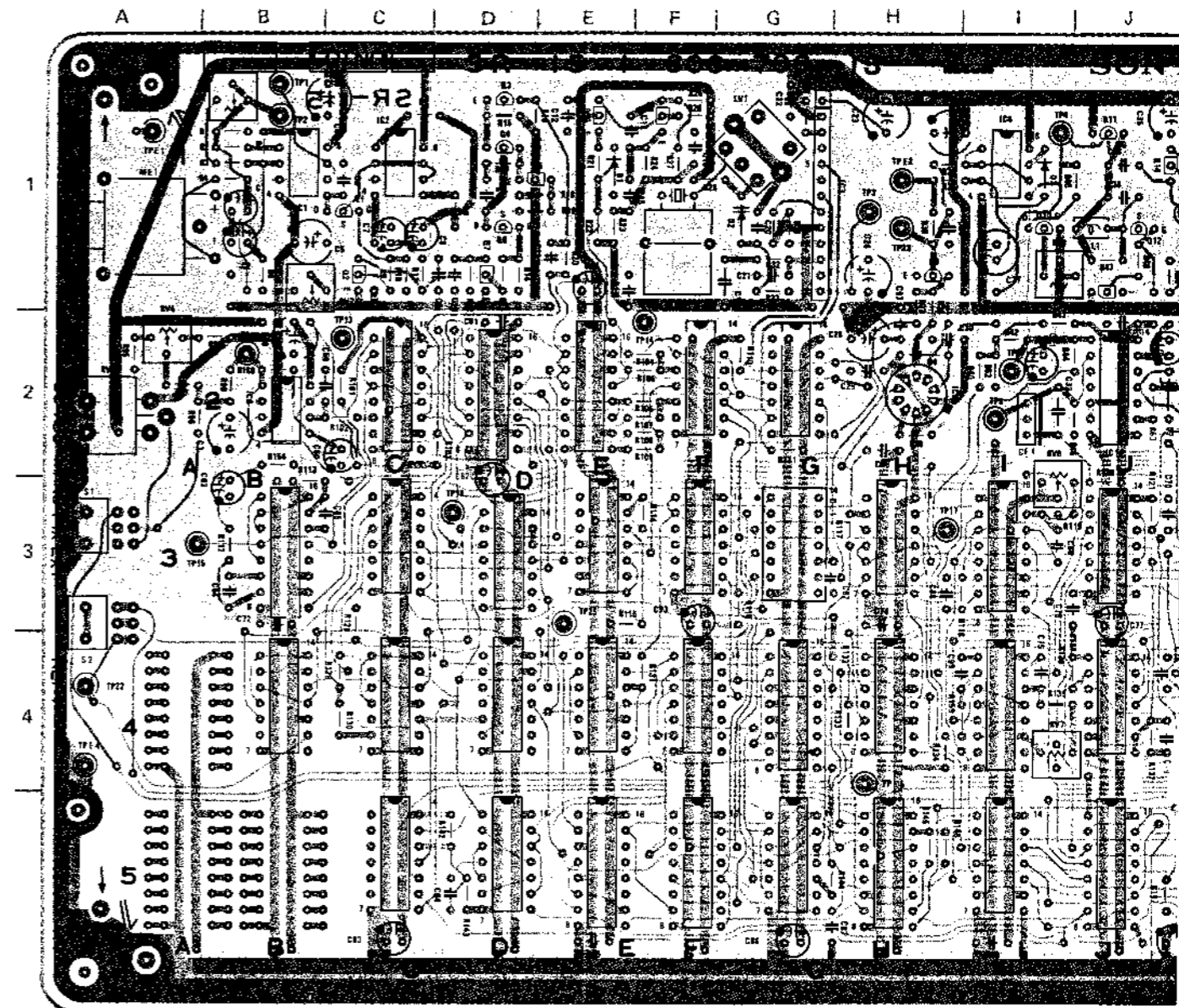
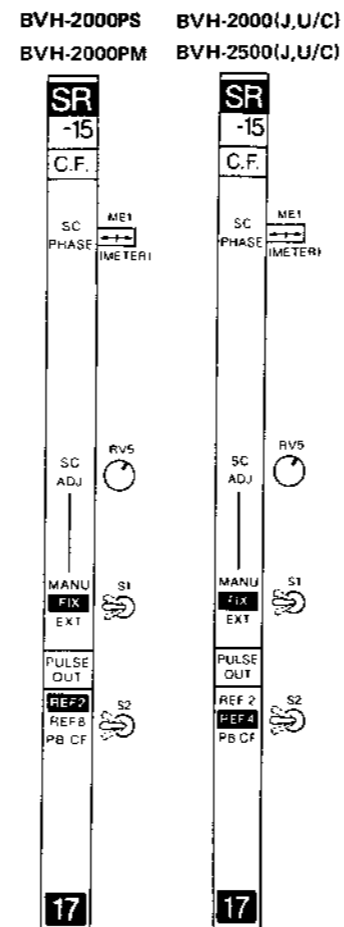
Servo Ref. Signal Generator



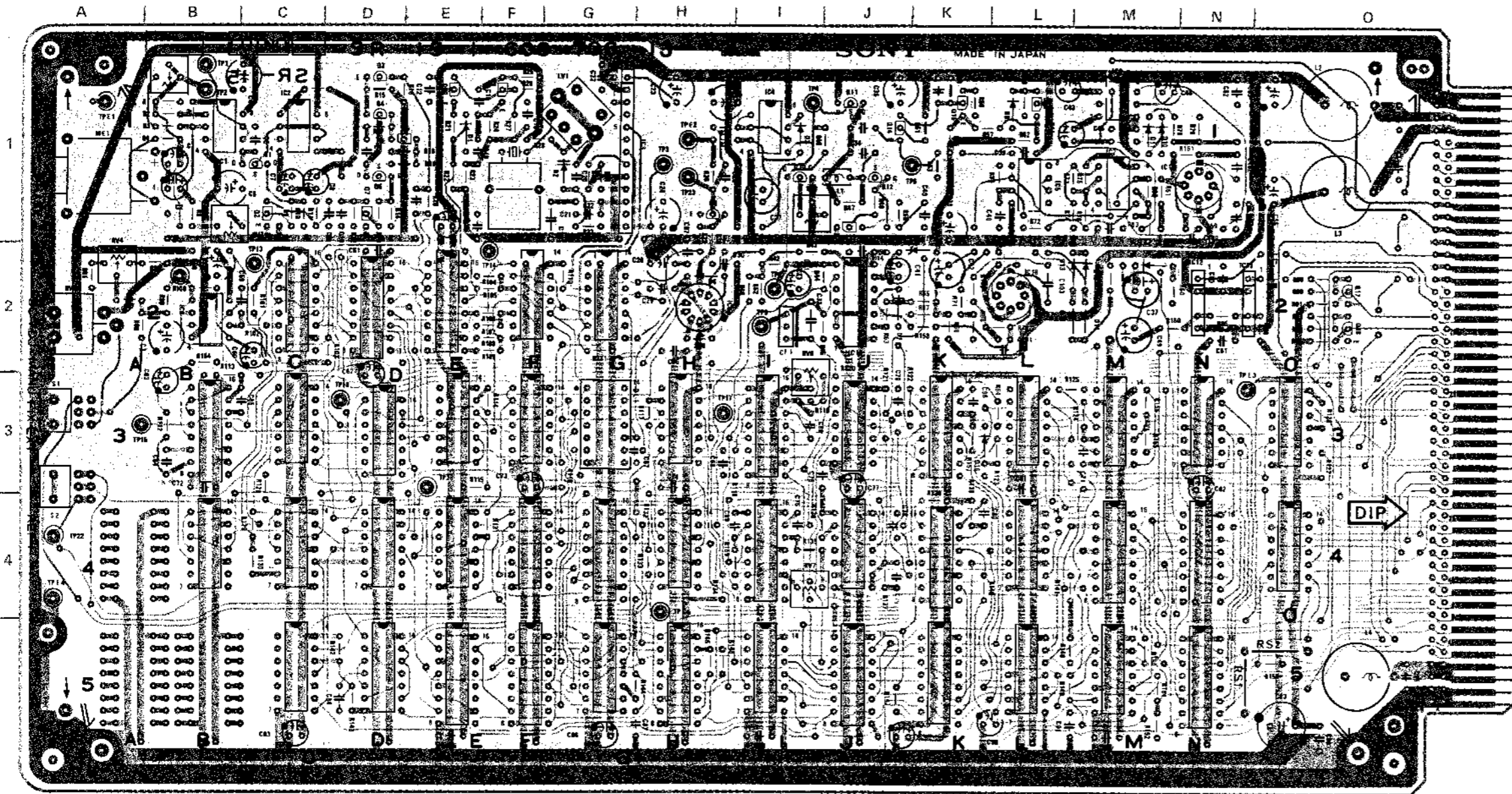
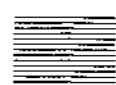


SR-15 BOARD
 BOARD NO. 1-606-706-11
 BVH-2000PS; #10001-10299

SR-15 BOARD (1-606-706-13)
Component Side



1-606-706-13 COMPONENT SIDE



1-606-706-13 COMPONENT SIDE

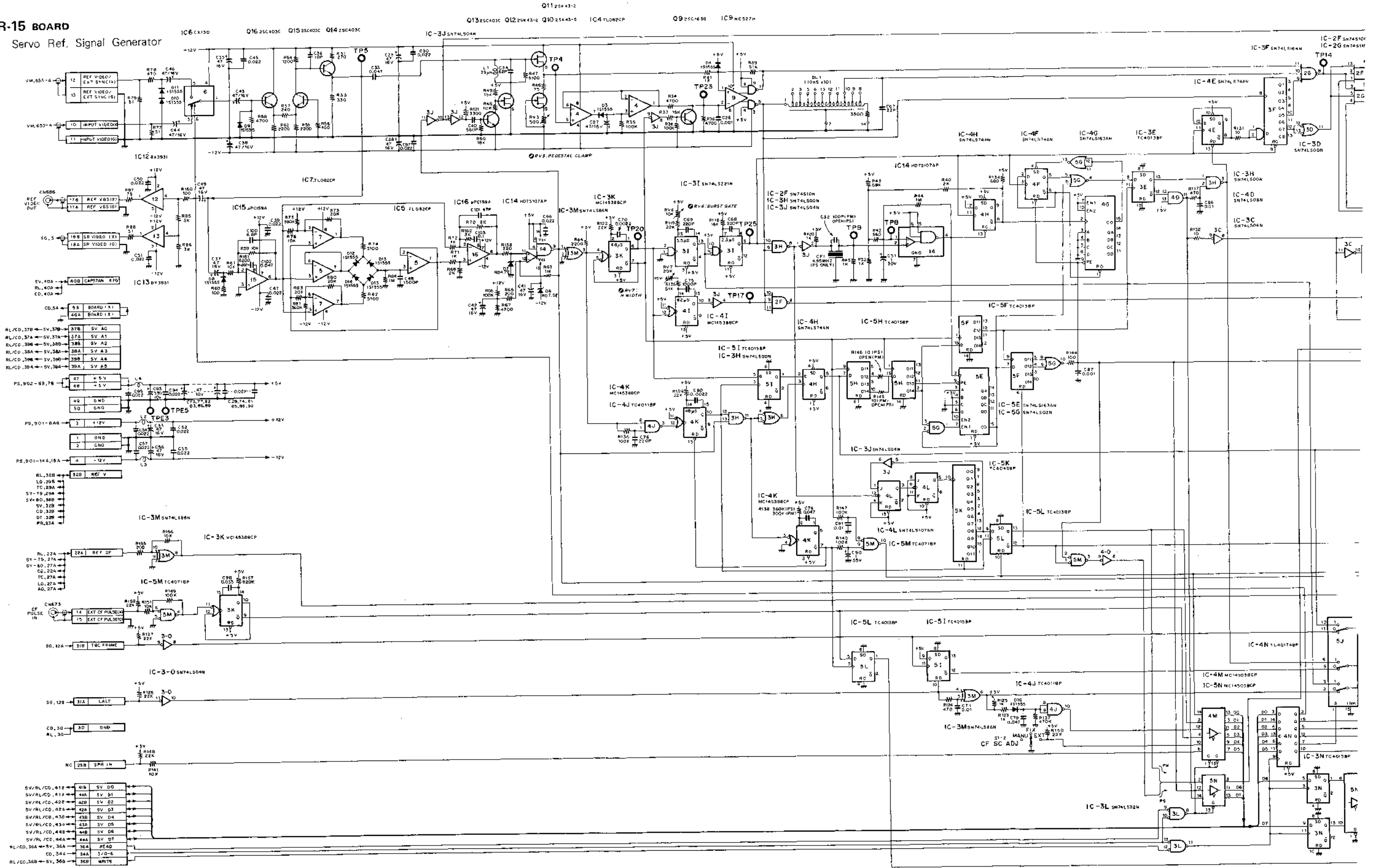
1-606-706-13 SOLDER SIDE

SR-15 (1-606-706-13 & UP)

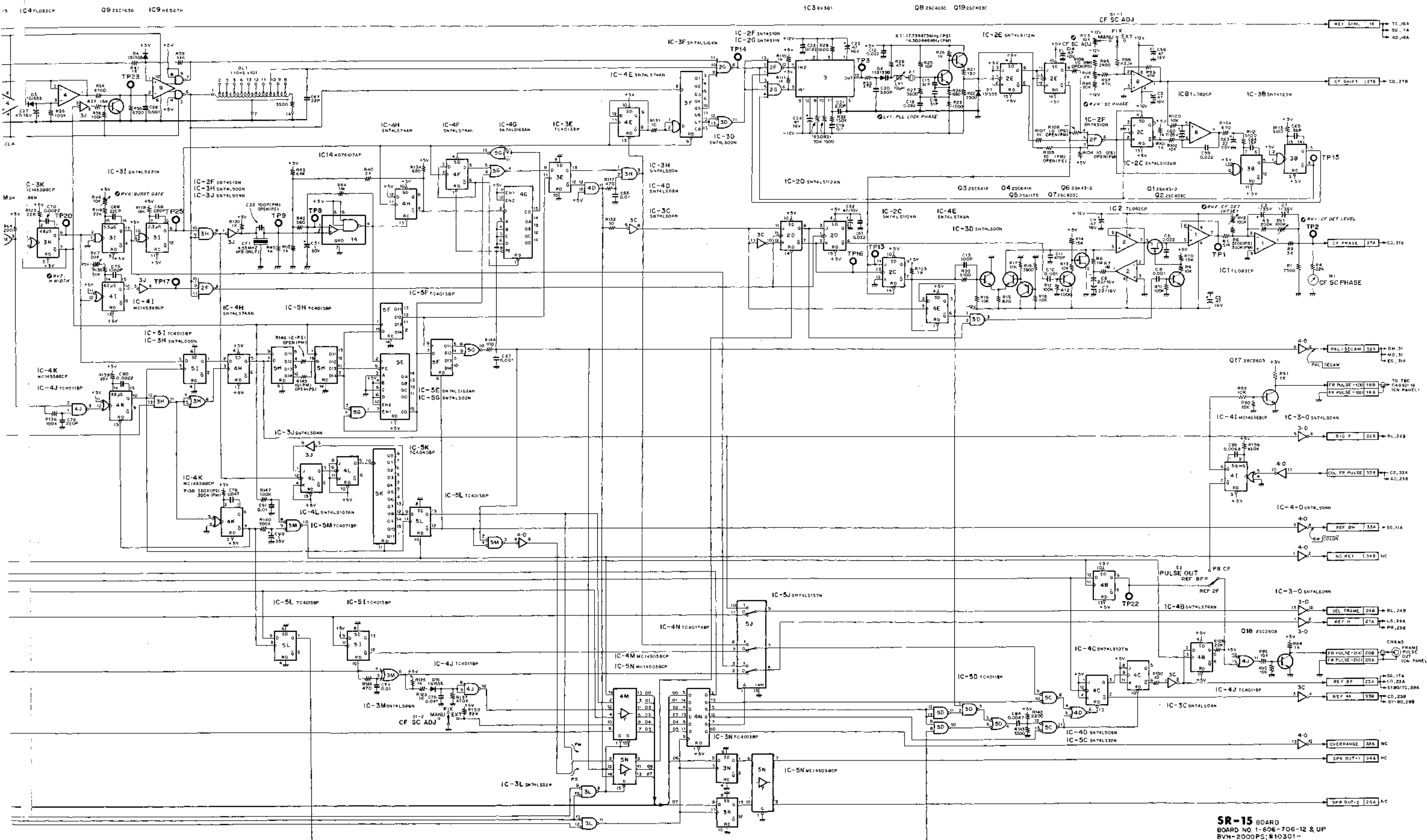
BVH-2000(J,U/C)	IC6	1M	
BVH-2000PS	IC7	1M	
BVH-2000PM	IC8	2B	
BVH-2500(J,U/C)	IC9	2H	
	IC12	2N	
O1	1E	IC13	2N
O2	1G	IC14	2J
O3	1I	IC15	1N
O4	2H	IC16	2L
O6	2J		
O7	2J	LV1	1G
O8	2M		
O9	1L	ME1	1A
D10	1M		
D11	1M	Q1	1C
D12	2M	Q2	1C
D13	2L	Q3	1D
D14	2M	Q4	1D
D15	2L	Q5	1D
D16	2L	Q6	1D
		Q7	1D
DL1	3G	Q8	1F
		Q9	1H
		Q10	1I
IC1	1B	Q11	1J
IC2	1C	Q12	1J
IC20		Q13	1J
IC2E		Q14	1J
IC2F		Q15	1K
IC2G		Q16	1L
IC3	1G	Q17	2D
IC3B		Q18	2D
IC3C		Q19	1E
IC3D			
		RV1	1B
(PS,PM)		RV2	1B
IC3E		RV3	1I
		RV4	2A
IC3F		RV5	2A
IC3H		RV6	3I
IC3I		RV7	4I
IC3J			
IC3K	S1	S2	3A
IC3L			3A
IC3M			
IC3N		TP1	1B
IC3O		TP2	1B
IC4	1I	TP3	1H
IC4B		TP4	1I
IC4C		TP5	1J
IC4D			
IC4E		(PS,PM)	
		TP8	2I
(PS,PM)		TP9	2I
IC4F			
IC4G		TP12	2B
		TP13	2C
IC4H		TP14	1F
IC4I		TP15	3A
IC4J		TP16	3D
IC4K		TP17	3H
IC4L		TP22	4A
IC4M		TP23	1H
IC4N		TP25	3E
IC4O			
IC5	1L	TPE1	1A
IC5C		TPE2	1H
IC5D		TPE3	3W
		TPE4	4A
		TPE5	4H
(PS,PM)		X1	1F
IC5E			
IC5F			
IC5G			
IC5H			
IC5I			
IC5J			
IC5K			
IC5L			
IC5M			
IC5N			

SR-15 BOARD

Servo Ref. Signal Generator



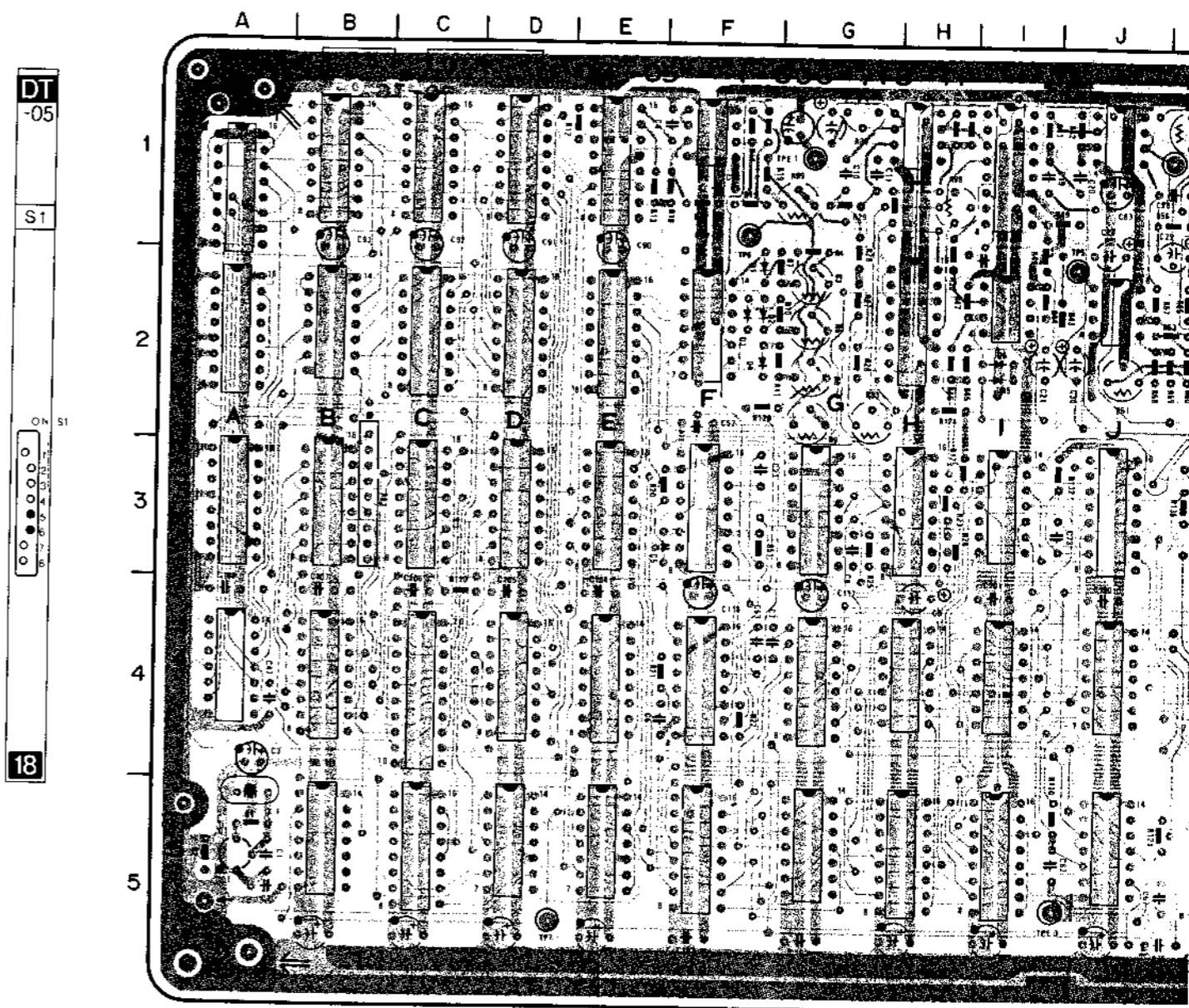
BVH-2000/PS C-95(5/7) C-95(6/7) C-95(7/7)
 C-131 C-130 C-129 BVH-2500



SR-15 BOARD
 BOARD NO. 1-606-706-12 & UP
 BVH-2000PS; #10301-
 BVH-2000PM; #10001-

DT-05 BOARD (1-606-718-11)

Component Side



1-606-718-11 (COMPONENT) S-DE

RB1, 2, 3



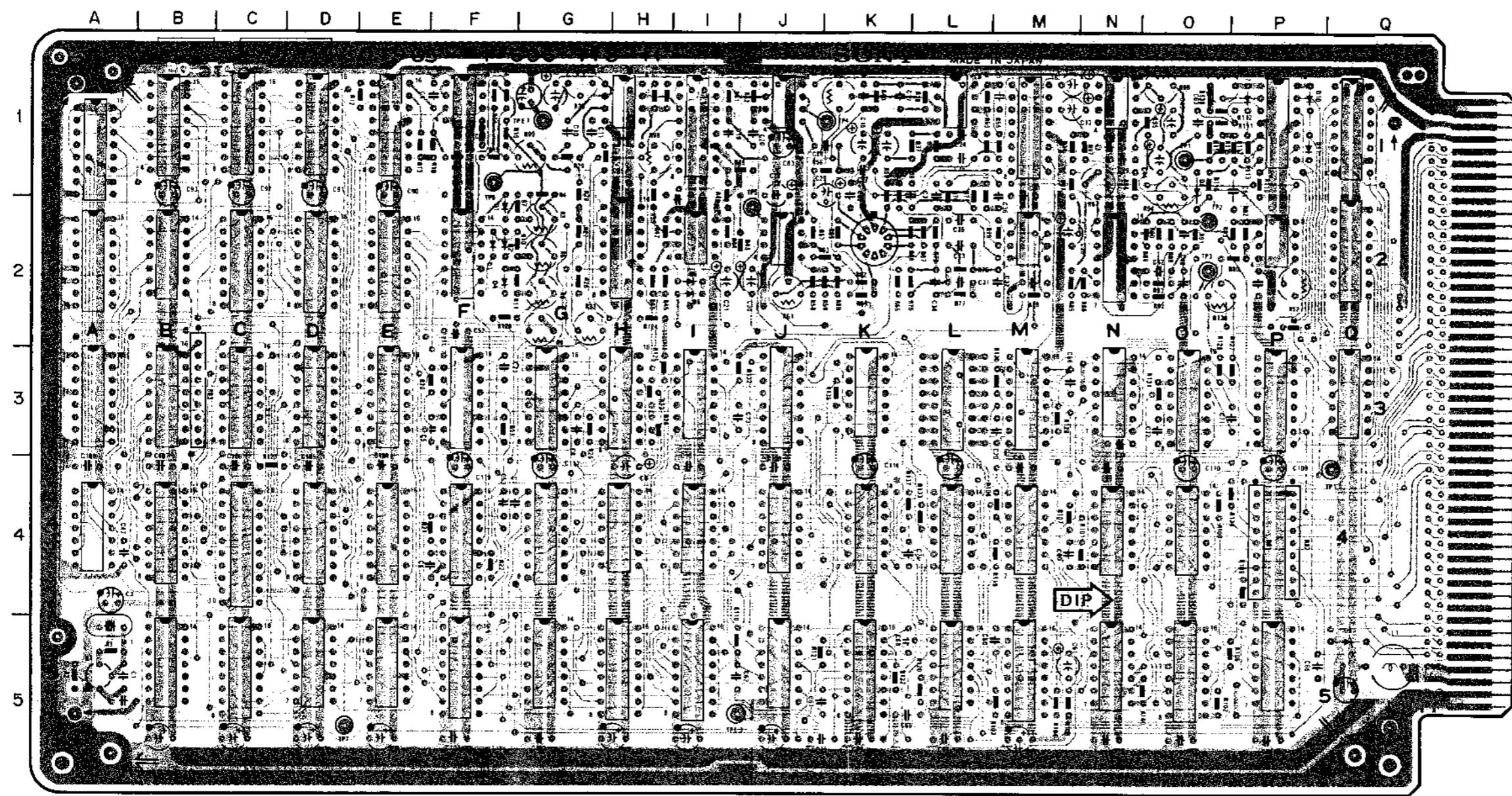


DT-05

S1

ON S1

18



DT-05 (1-606-718-11)

BVH-2000PS	IC46
(02/04 MODEL)	IC4H
	IC4I
D1	2F IC4J
D2	2F IC4K
D3	2F IC4L
D4	2F IC4M
D5	2F IC4N
D6	2I IC4O
D7	1P IC5B
D8	1O IC5C
D9	5O IC5D
D10	1P IC5E
D11	1P IC5F
	IC5G
	IC5H
IC1A	IC5I
IC1B	IC5J
IC1C	IC5K
IC1D	IC5L
IC1E	IC5M
IC1F	IC5N
IC1H	IC5O
IC1I	IC5P
IC1J	
IC1K	
IC1M	Q1 5A
IC1N	
IC1Q	R3 2G
IC1P	R5 2G
IC2A	R6 2G
IC2B	R9 2G
IC2C	R30 1G
IC2D	R33 2G
IC2E	R50 1K
IC2F	R52 2P
IC2H	R61 2J
IC2I	R67 1N
IC2J	R94 1O
IC2K	R96 1O
IC2M	R98 1H
IC2N	R99 1G
IC2P	R138 2O
IC2Q	R139 1O
IC3A	
IC3B	RB1 4P
IC3D	RB2 4P
IC3E	RB3 3B
IC3F	
IC3G	S1 3C
IC3H	
IC3I	TP1 1O
IC3J	TP2 2O
IC3K	TP3 2O
IC3M	TP4 1K
IC3N	TP5 2J
IC3O	TP6 1F
IC3P	TP7 5D
IC3Q	
IC4A	THE1 1G
IC4B	TPE2 3O
IC4C	TPE3 5J
IC4D	
IC4E	X1 5A
IC4F	

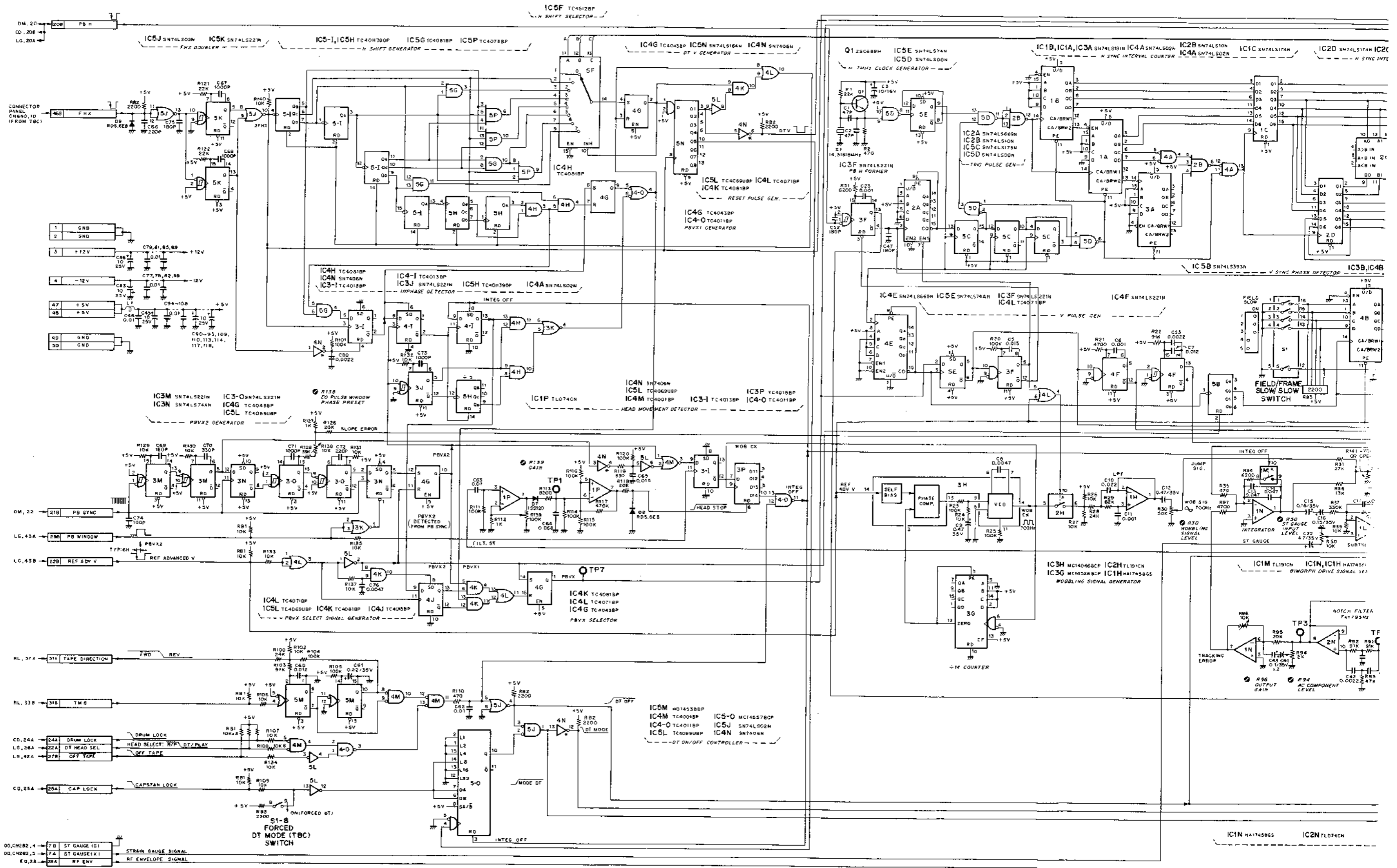
1-606-718-11 COMPONENT SIDE

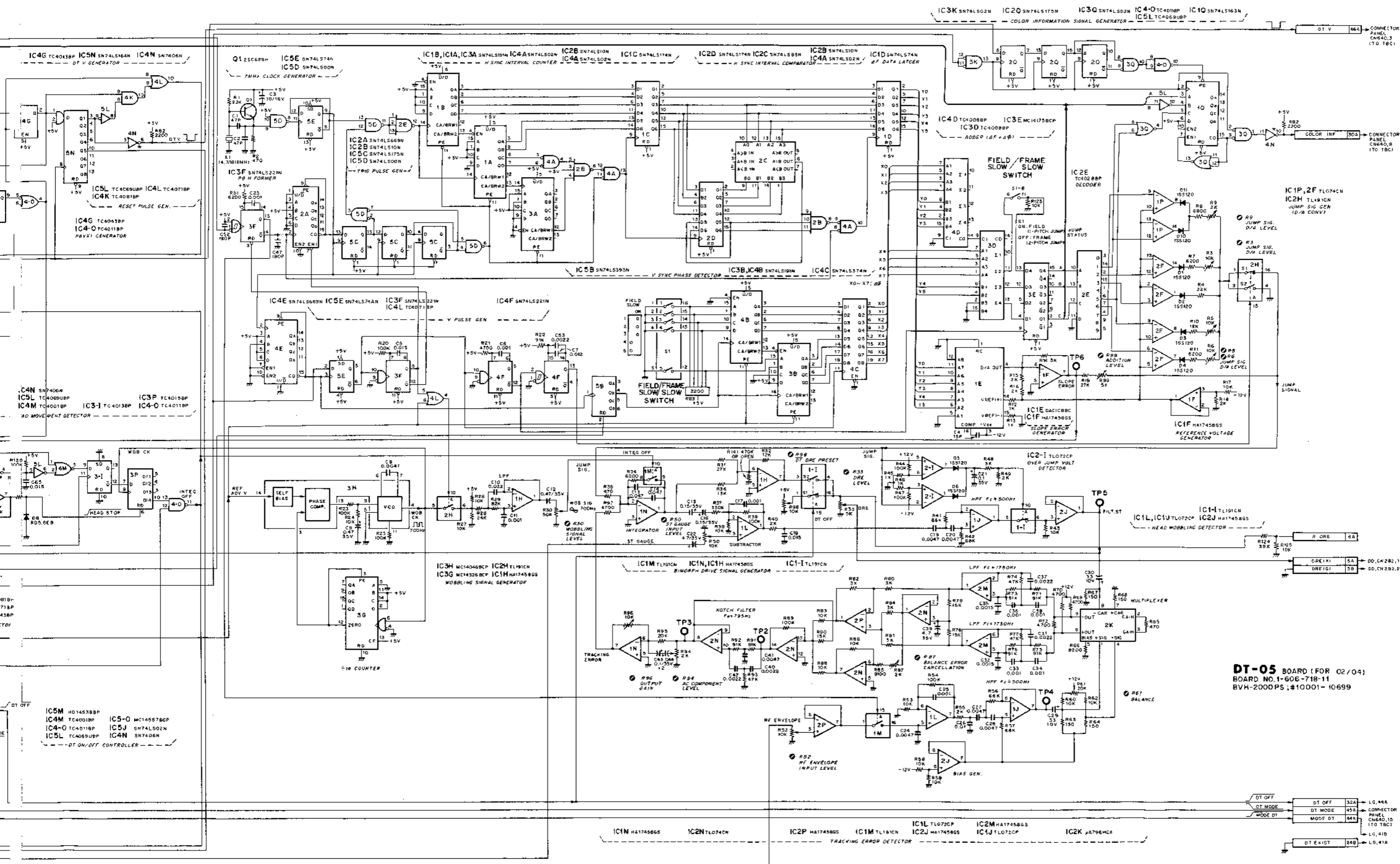
1-606-718-11

RB1, 2, 3



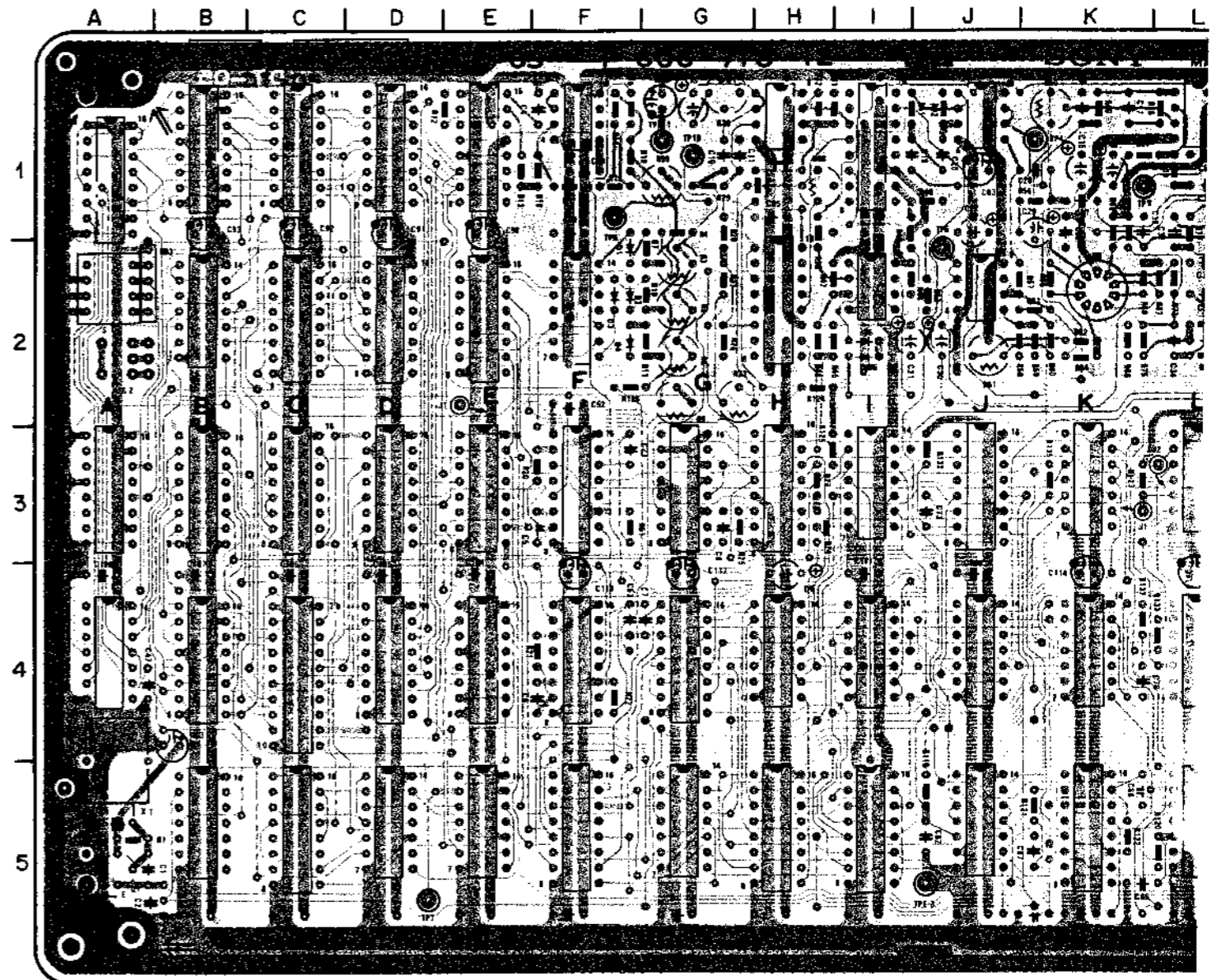
DT Control





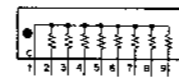
DT-05 BOARD (FOR 02/04)
 BOARD NO. 1-606-718-11
 BVH-2000PS; #10001-10699

DT-05 BOARD (1-606-718-12)
Component Side

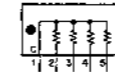


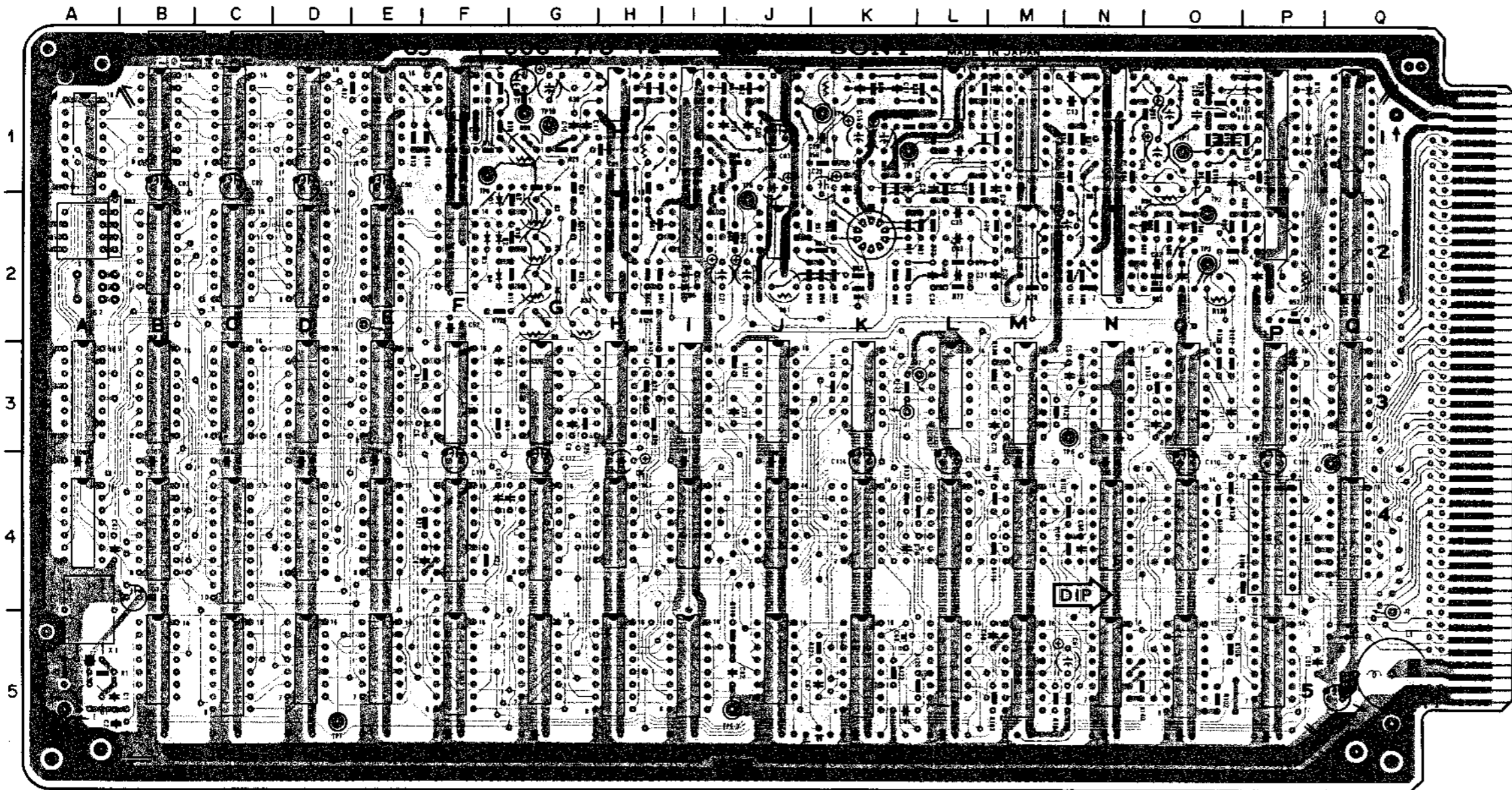
1-606-718-12 COMPONENT SIDE

RB1, 2



RB3



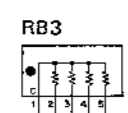
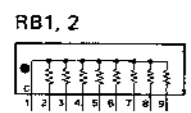


DT-05 (1-606-718-12)

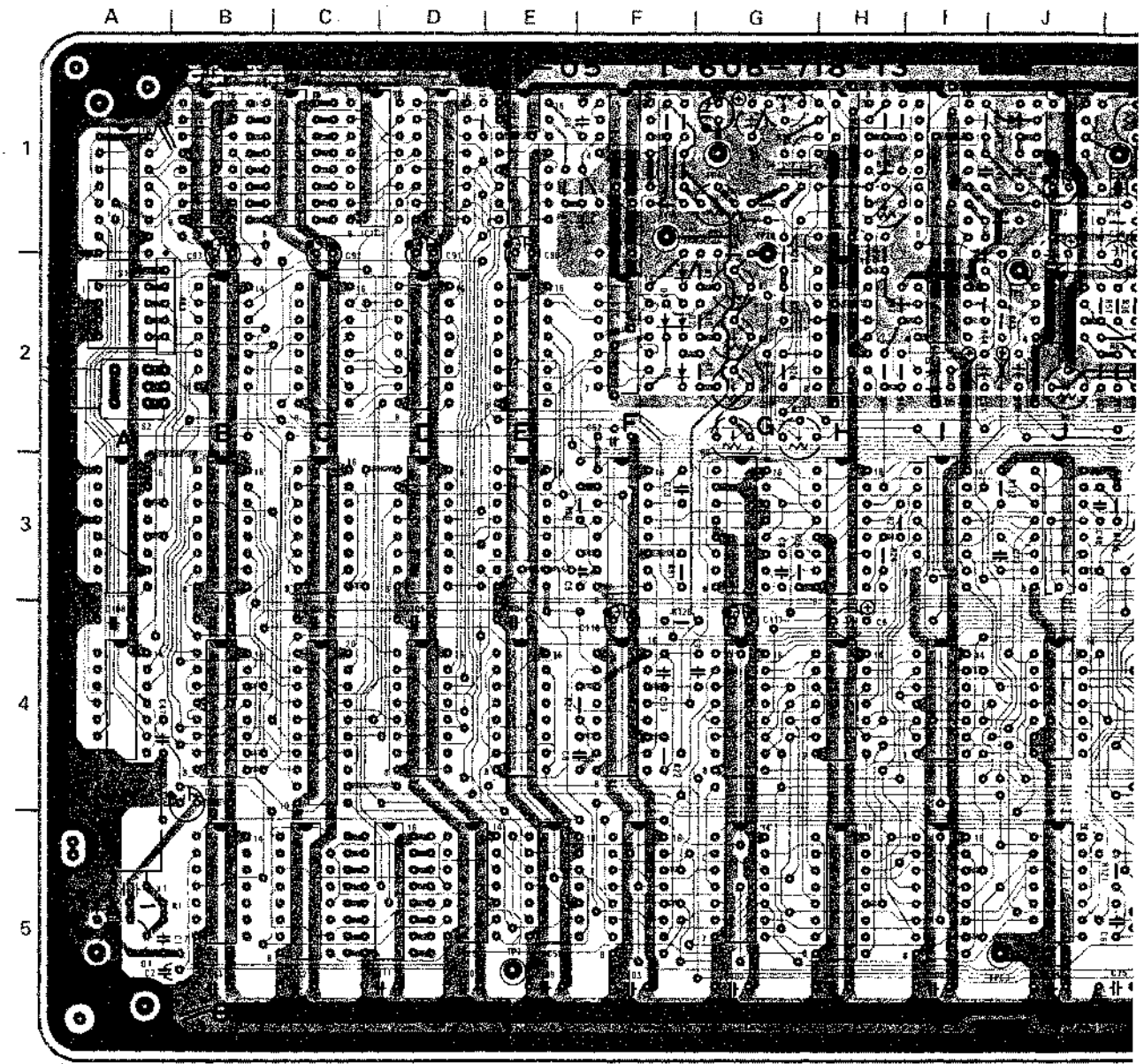
BWH-2000P5 (02/04 MODEL)	IC4G
	IC4H
	IC4I
	IC4J
	IC4K
	IC4L
	IC4M
	IC4N
	IC4O
	IC58
	IC5C
	IC5D
	IC5E
	IC5F
	IC5G
	IC5H
	IC5I
	IC5J
	IC5K
	IC5L
	IC5M
	IC5N
	IC5O
	IC5P
	Q1 5A
	R3 2G
	R5 2G
	R6 2G
	R9 2G
	R30 1G
	R33 2G
	R50 1K
	R52 2P
	R61 2J
	R87 1W
	R94 1O
	R96 1D
	R98 1H
	R99 1G
	R138 2D
	R139 1O
	RB1 4P
	RB2 4P
	RB3 3B
	S1 3C
	S2 2A
	IC51
	IC5J
	IC5K
	IC5L
	IC5M
	IC5N
	IC5O
	IC5P
	IC4A
	IC4B
	IC4C
	IC4D
	IC4E
	IC4F
	TP1 1O
	TP2 2O
	TP3 2O
	TP4 1K
	TP5 2J
	TP6 1F
	TP7 5O
	TP8 3N
	TP9 1K
	TP10 1G
	TPE1 1G
	TPE2 5O
	TPE3 5J
	X1 5A

1-606-718-12 COMPONENT SIDE

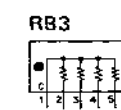
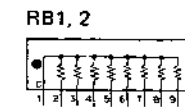
1-606-718-12

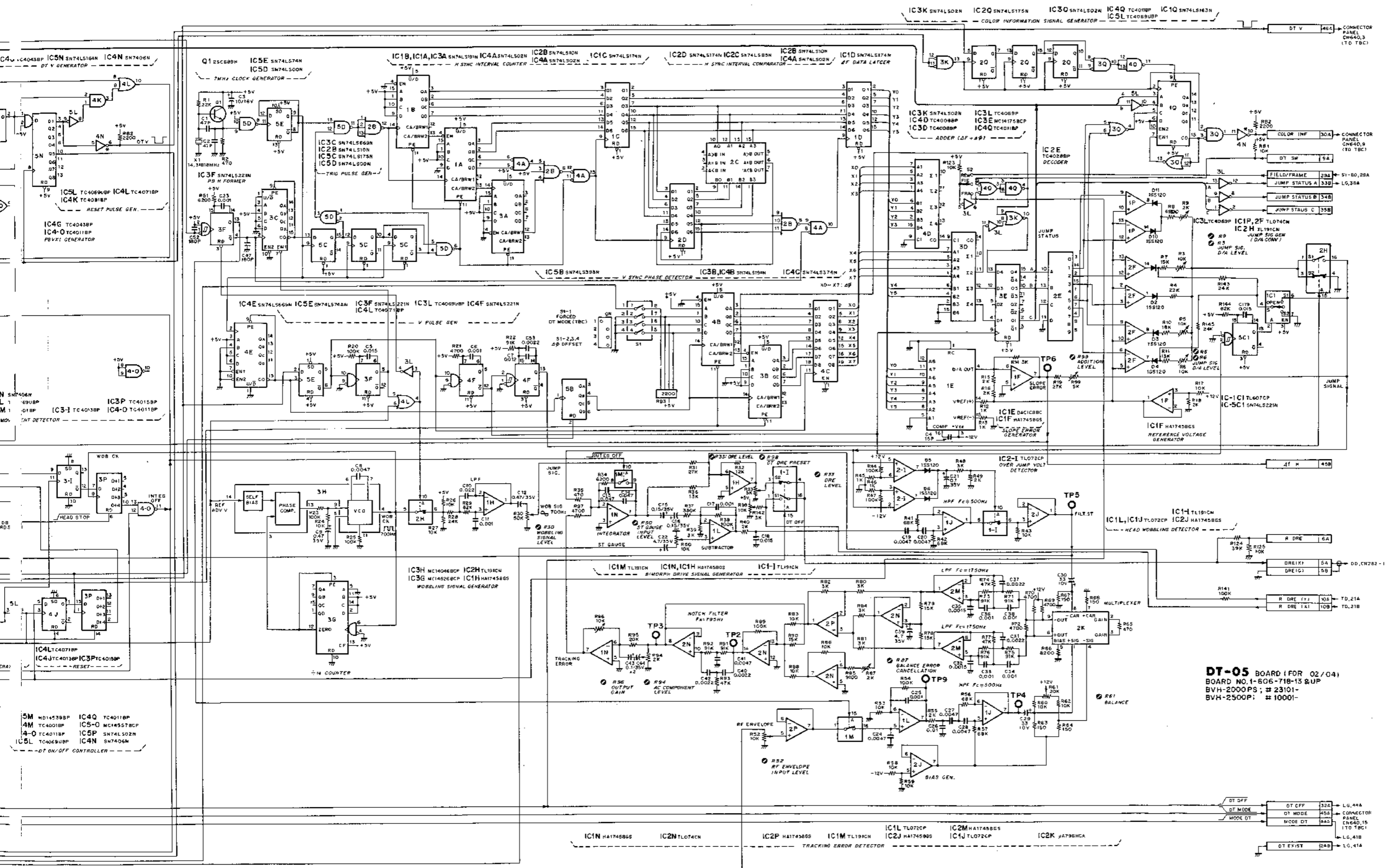


DT-05 BOARD (1-606-718-13)
Component Side



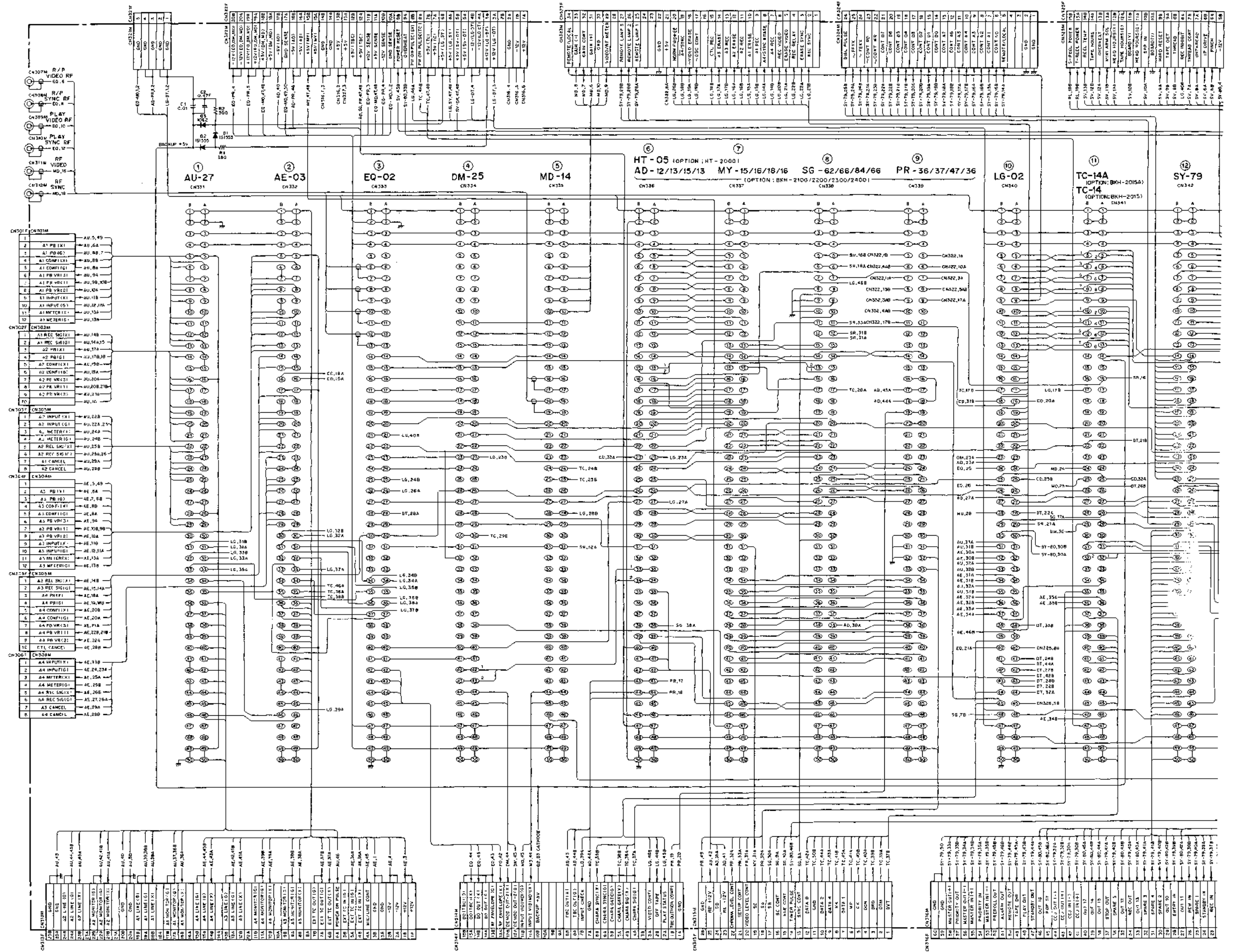
1-606-718-13 COMPONENT SIDE

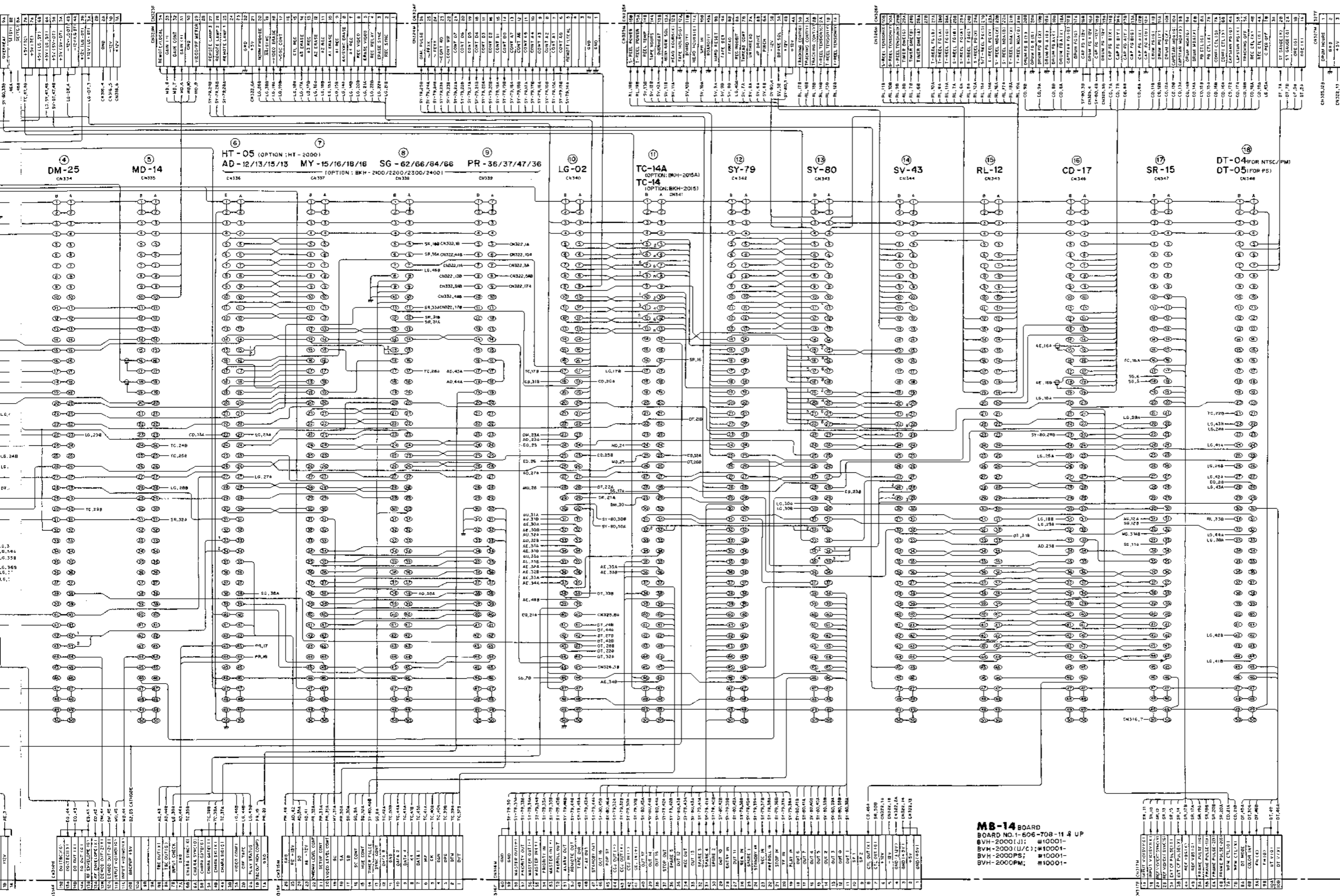




DT-05 BOARD (FOR 02/04)
 BOARD NO. 1-606-718-13 & UP
 BVH-2000PS; # 23101-
 BVH-2500P; # 10001-

MB-14 BOARD
Mother Board





The following connections are added.

*BO,31A → DM,31B
 DM,38A → LG,43A
 J; #10401 & UP
 U/C; #10401 & UP
 PS; #10001 & UP
 PM; #10001 & UP

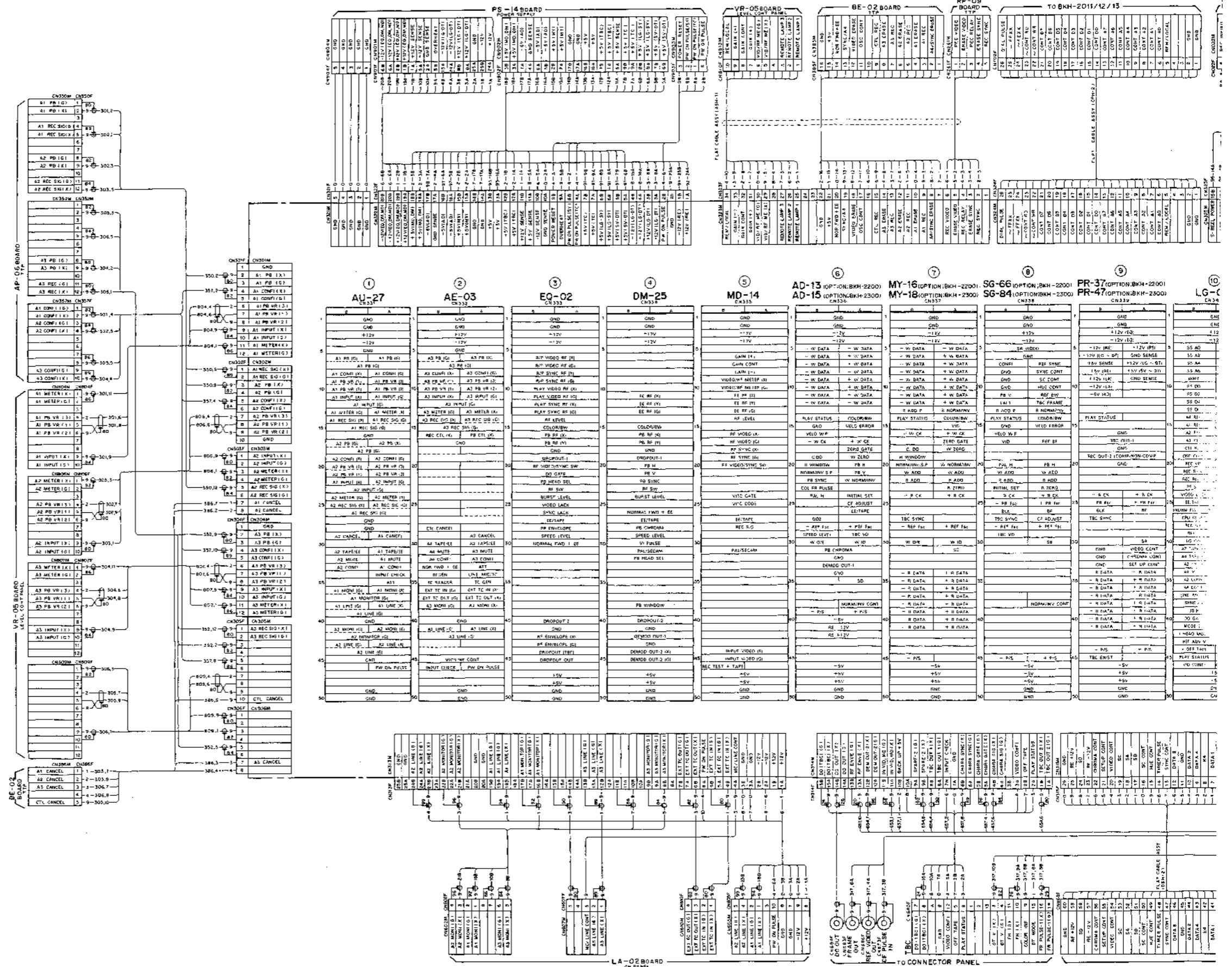
*MD,46B → SY-80,29B
 J; #10501 & UP
 U/C; #10501 & UP
 PS; #10301 & UP
 PM; #10001 & UP

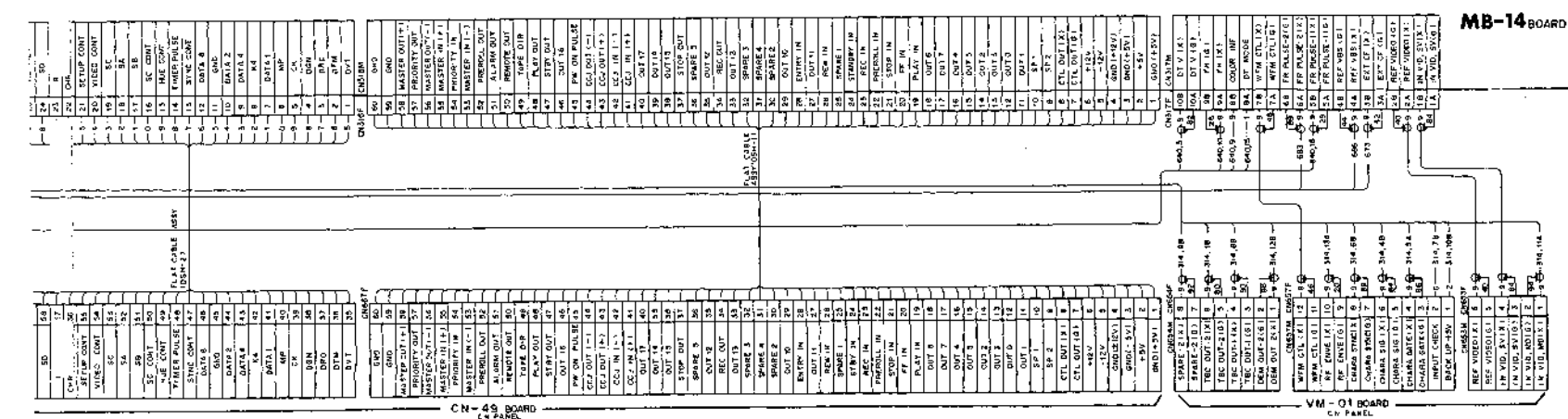
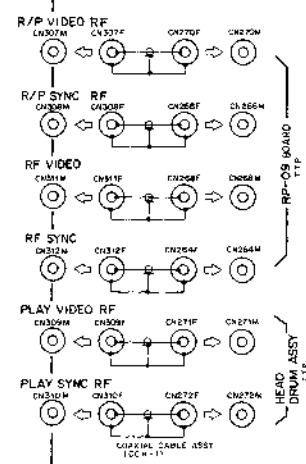
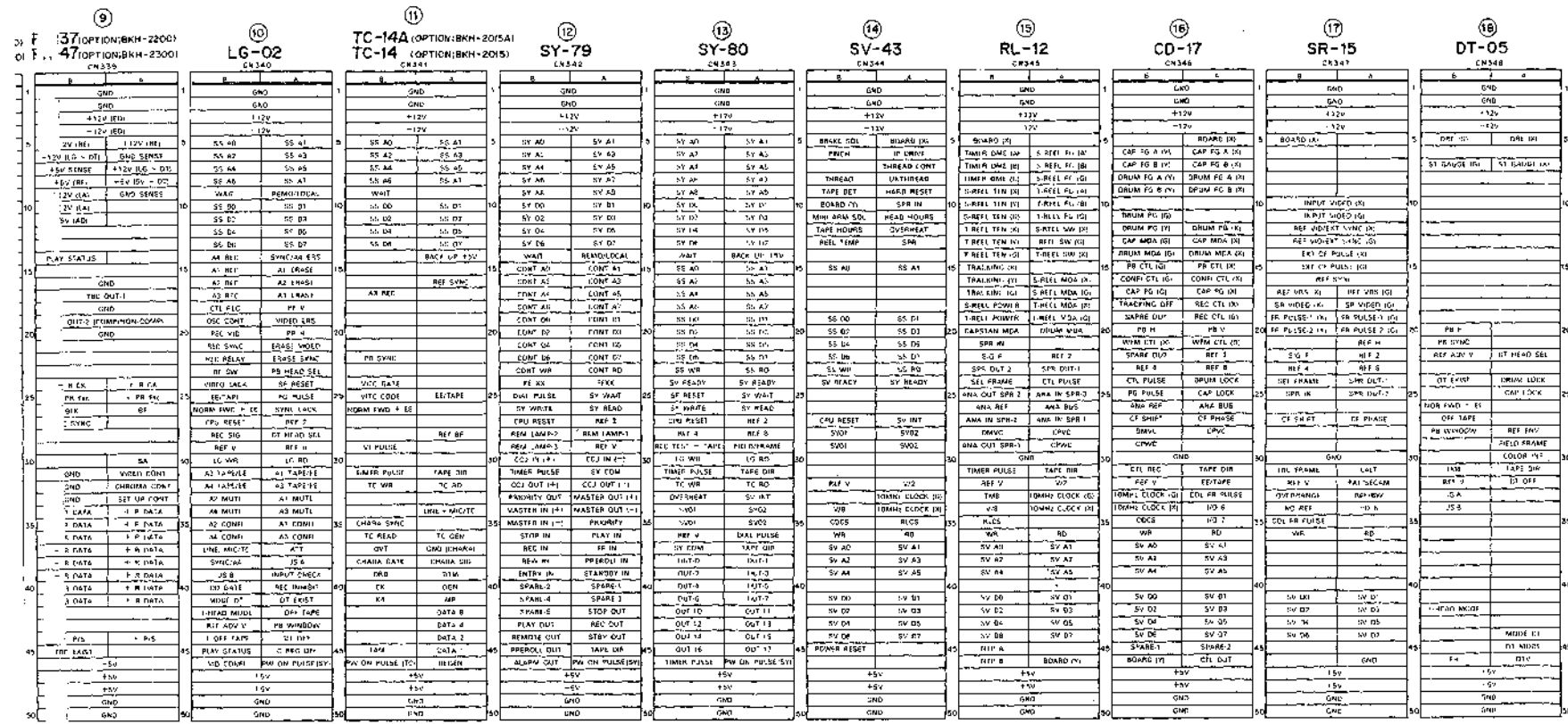
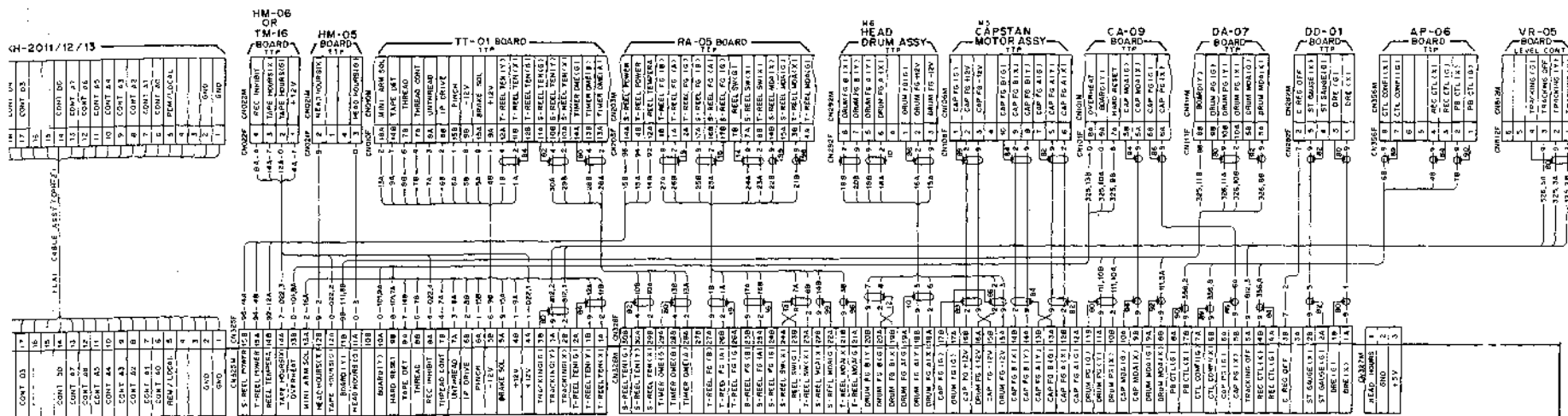
*LG,17B → TC,17B
 LG,25B → TC,25A
 LG,26B → TC,26B
 LG,37B → TC,34A
 J; #22301 & UP
 U/C; #22501 & UP
 PS; #22301 & UP
 PM; #20201 & UP

*BO,22A → DM,32B
 J; #22401 & UP
 U/C; #22601 & UP
 PS; #22401 & UP
 PM; #20201 & UP

MB-14 BOARD
 BOARD NO. 1-606-708-11 & UP
 BVH-2000(J); #10001-
 BVH-2000(U/C); #10001-
 BVH-2000PS; #10001-
 BVH-2000PM; #10001-

FRAME WIRING; CARD RACK; FOR 00/02 MODELS



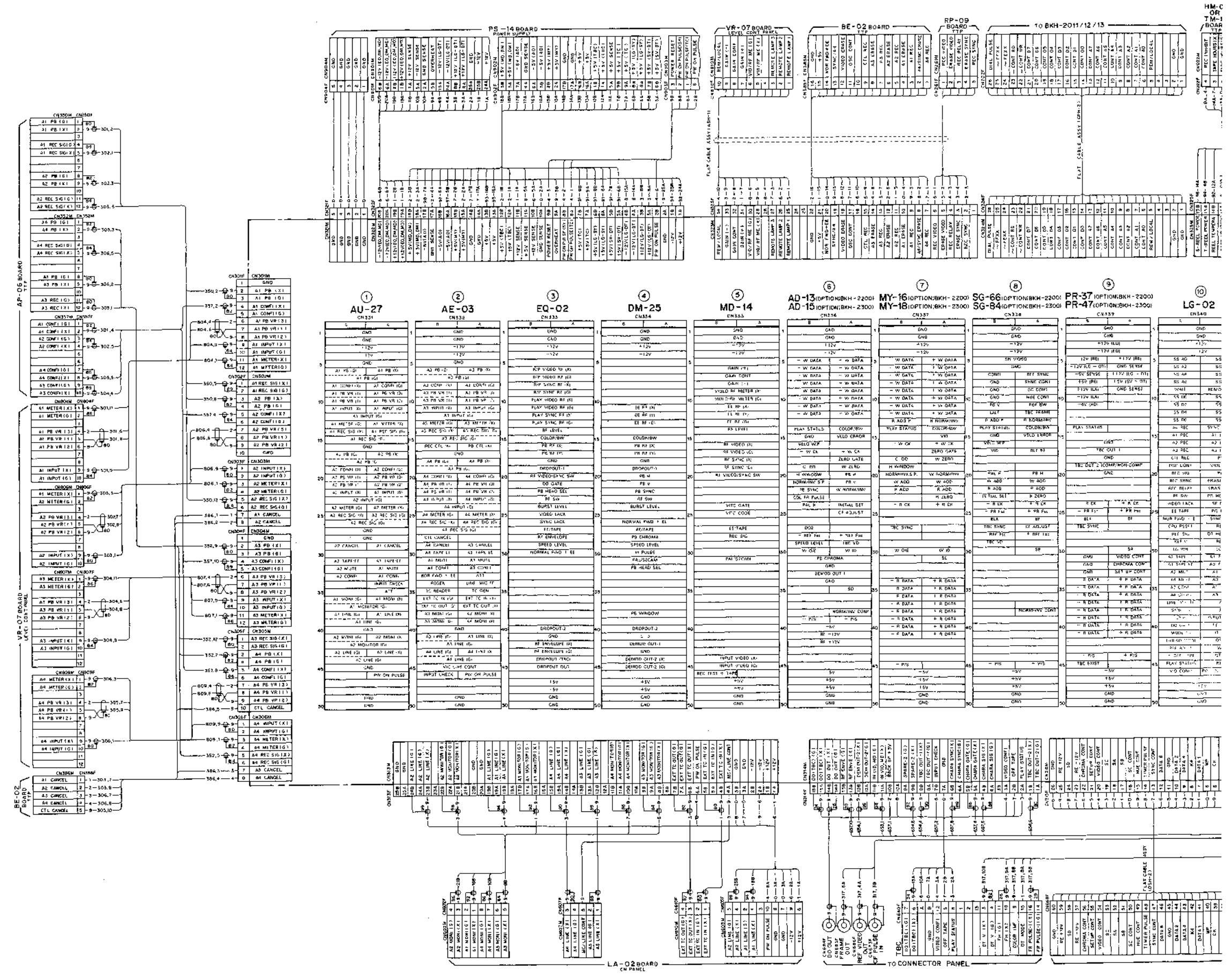


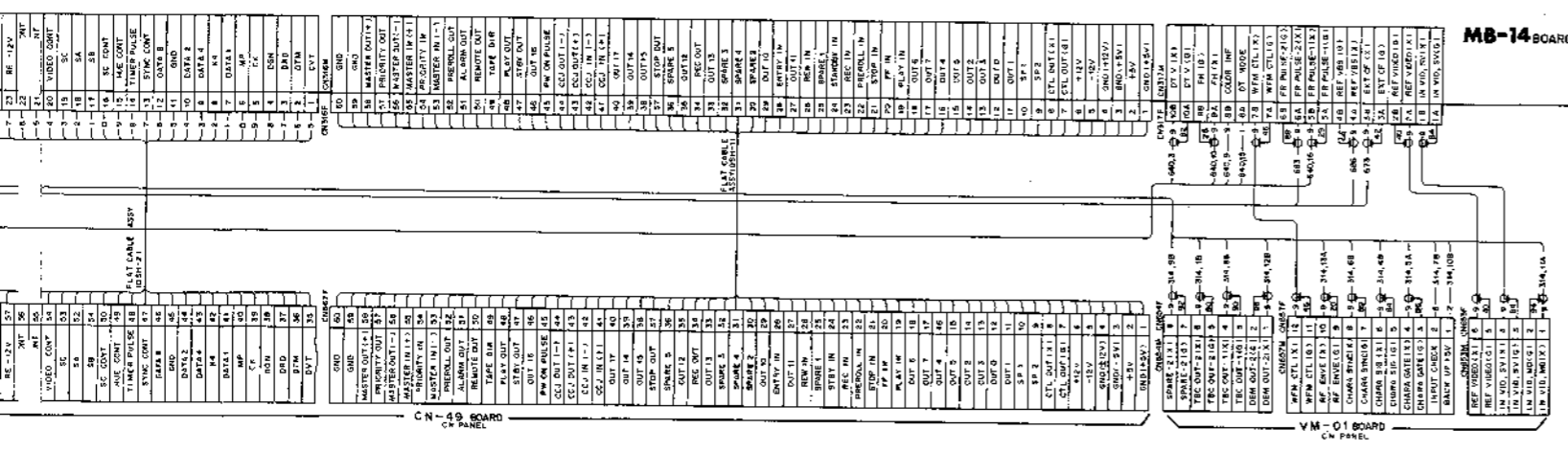
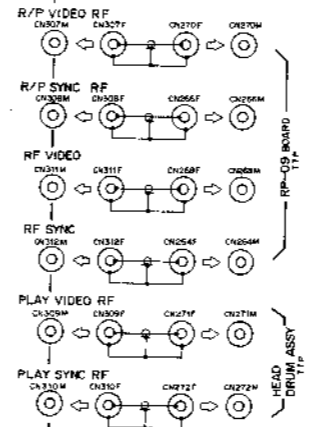
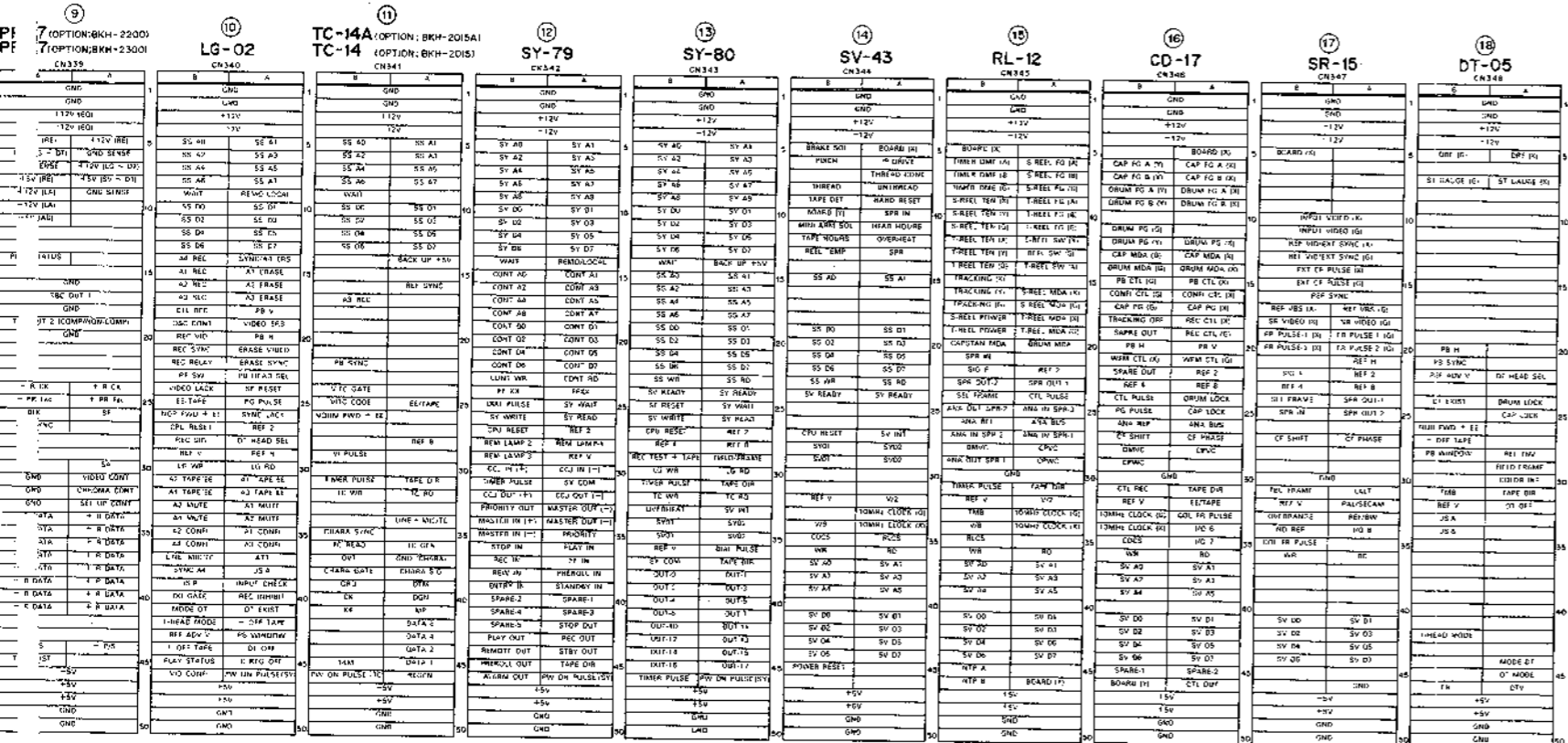
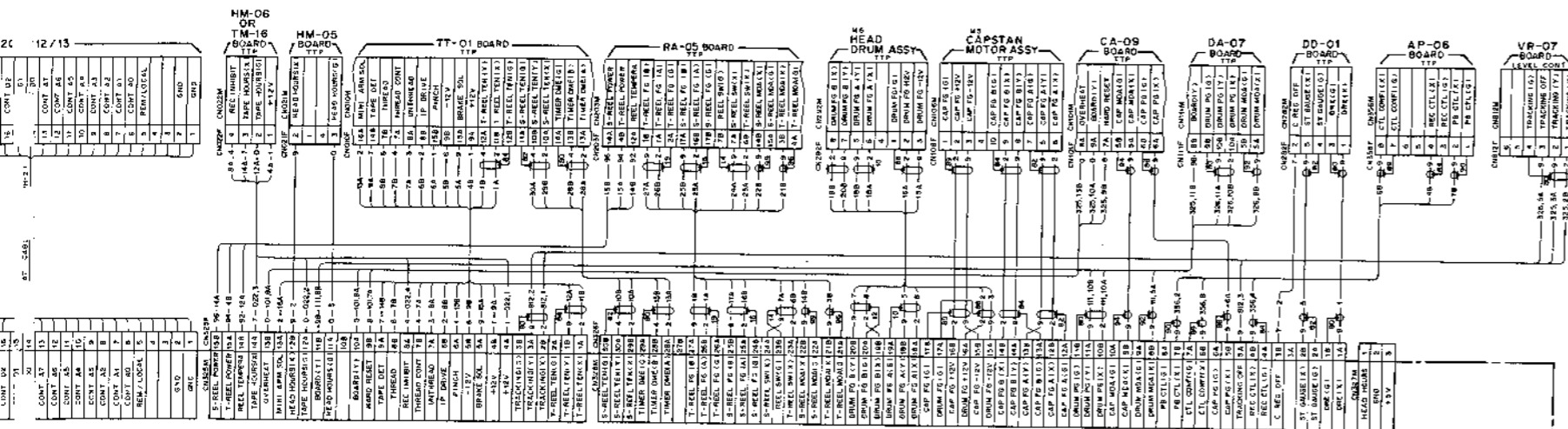
FRAME WIRING
CARD RACK (00/02)

BVM-2000PS; # 10001-

FRAME WIRING; CARD RACK; FOR 04 MODEL

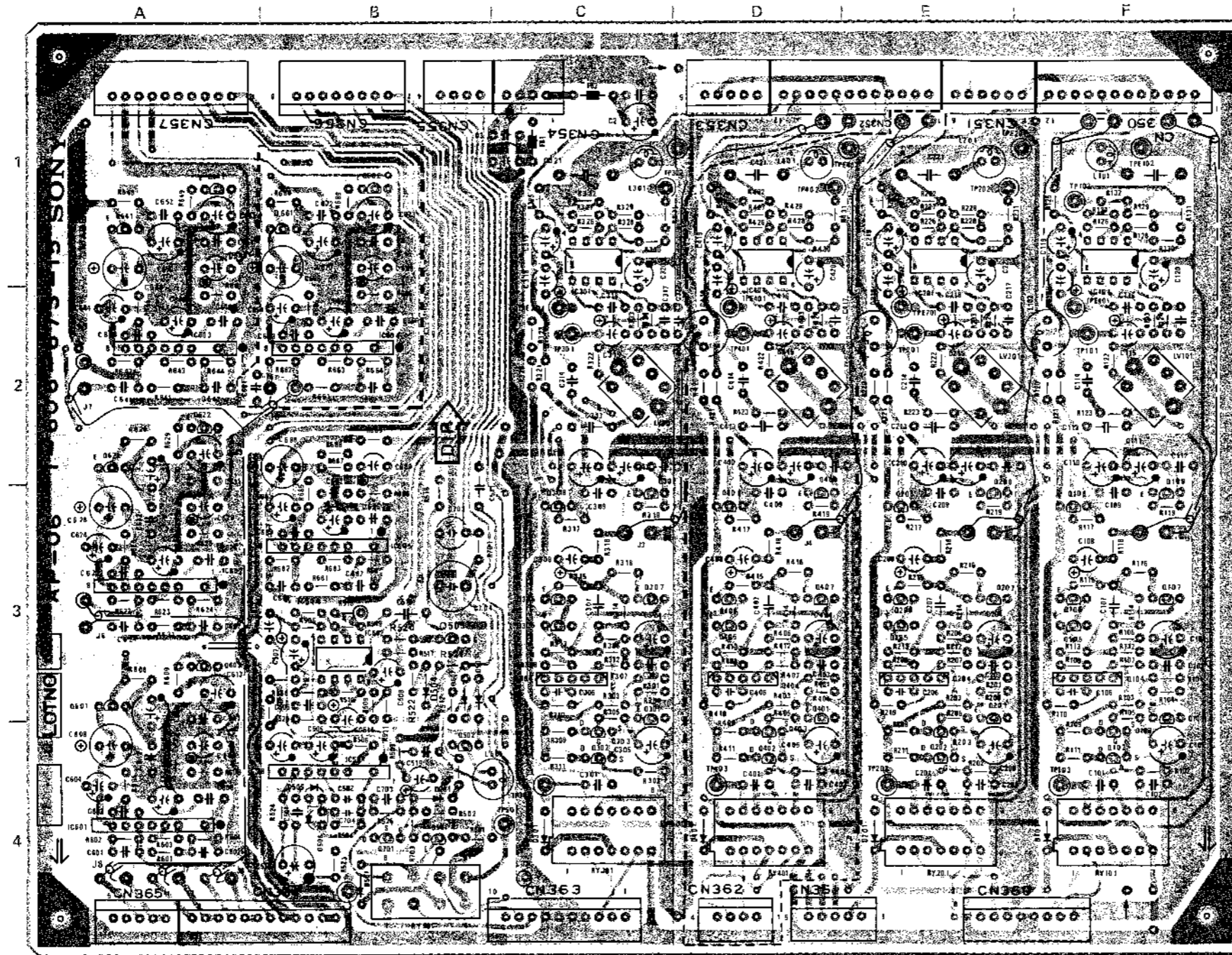
CARD RACK FRAME WIRING (FOR 04) FRAME WIRING (FOR 04) CARD RACK





**FRAME WIRING
CARD RACK (04)**

BVH-2000PS (FOR 04); #10001-



1-606-673-15 COMPONENT SIDE

1-606-673-15

AP-06 (1-606-673-13 & UP)

BVH-2000(J,U/C)	Q501 4B
	Q502 4B
BVH-2000PS	(P5)
(00/D2 MODEL)	Q503 3B
BVH-2000PM	Q601 3A
BVH-2500(J,U/C)	Q602 3A
	Q621 2A
CN350M	Q622 2A
	Q641 1A
CN351M	Q642 1A
	Q701 4B
CN352M	Q701 4B
	Q701 4B
CN353M	RY101 4F
	RY201 4E
CN354M	RY301 4C
	RY501 4B
CN355M	TP101 2F
	TP102 1F
CN356M	TP103 4F
	TP201 2E
CN357M	TP202 1E
	TP203 4E
CN360M	TP301 2C
	TP302 1C
CN361M	TP303 4C
	TP501 4C
CN363M	TP501 4C
	TP501 4C
CN364M	TPE101
	TPE102
	TPE201
	TPE202
	TPE301
	TPE302
	TPE501
D101 4F	D201 4E
D201 4E	D301 4C
D301 4C	D501 4B
D501 4B	D502 3B
D502 3B	D503 3B
D503 3B	D504 3B
D504 3B	D505 4B
D505 4B	D506 4B
D506 4B	D701 4B
D701 4B	IC101 1F
	IC201 1E
	IC301 1C
	IC401 1D
	IC501 4B
	IC502 3B
	IC501 4B
	IC601 4A
	IC602 3A
	IC603 2A
	IC604 2B
	IC605 3B
	IC605 3B
LV101 2F	LV201 2E
LV201 2E	LV301 2C
LV301 2C	LV401 2D
Q101 3F	Q102 4F
Q102 4F	Q103 4F
Q103 4F	Q104 3F
Q104 3F	Q105 3F
Q105 3F	Q106 3F
Q106 3F	Q107 3F
Q107 3F	Q108 3F
Q108 3F	Q109 3F
Q109 3F	Q201 3E
Q201 3E	Q202 4E
Q202 4E	Q203 4E
Q203 4E	Q204 3E
Q204 3E	Q205 3E
Q205 3E	Q206 3E
Q206 3E	Q207 3E
Q207 3E	Q208 3E
Q208 3E	Q209 3E
Q209 3E	Q301 3C
Q301 3C	Q302 4C
Q302 4C	Q303 4C
Q303 4C	Q304 3C
Q304 3C	Q305 3C
Q305 3C	Q306 3C
Q306 3C	Q307 3C
Q307 3C	Q308 3C
Q308 3C	Q309 3C
Q309 3C	

AP-06 (1-606-673-13 & UP)

BVH-2000PS	Q401 3D
(04 MODEL)	Q402 4D
	Q403 4D
CN350M	Q404 3D
	Q405 3D
CN351M	Q406 3D
	Q407 3D
CN352M	Q408 3D
	Q409 3D
CN353M	Q501 4B
	Q502 4B
CN354M	Q503 3B
	Q601 3A
CN355M	Q602 3A
	Q621 2A
CN356M	Q622 2A
	Q641 1A
CN357M	Q642 1A
	Q661 1B
CN360M	Q662 1B
	Q701 4B
CN361M	Q701 4B
	Q701 4B
CN362M	Q701 4B
	Q701 4B
CN363M	Q701 4B
	Q701 4B
CN364M	Q701 4B
	Q701 4B
D101 4F	D201 4E
D201 4E	D301 4C
D301 4C	D501 4B
D501 4B	D502 3B
D502 3B	D503 3B
D503 3B	D504 3B
D504 3B	D505 4B
D505 4B	D506 4B
D506 4B	D701 4B
D701 4B	IC101 1F
	IC201 1E
	IC301 1C
	IC401 1D
	IC501 4B
	IC502 3B
	IC601 4A
	IC602 3A
	IC603 2A
	IC604 2B
	IC605 3B
	IC605 3B
LV101 2F	LV201 2E
LV201 2E	LV301 2C
LV301 2C	LV401 2D
Q101 3F	Q102 4F
Q102 4F	Q103 4F
Q103 4F	Q104 3F
Q104 3F	Q105 3F
Q105 3F	Q106 3F
Q106 3F	Q107 3F
Q107 3F	Q108 3F
Q108 3F	Q109 3F
Q109 3F	Q201 3E
Q201 3E	Q202 4E
Q202 4E	Q203 4E
Q203 4E	Q204 3E
Q204 3E	Q205 3E
Q205 3E	Q206 3E
Q206 3E	Q207 3E
Q207 3E	Q208 3E
Q208 3E	Q209 3E
Q209 3E	Q301 3C
Q301 3C	Q302 4C
Q302 4C	Q303 4C
Q303 4C	Q304 3C
Q304 3C	Q305 3C
Q305 3C	Q306 3C
Q306 3C	Q307 3C
Q307 3C	Q308 3C
Q308 3C	Q309 3C
Q309 3C	

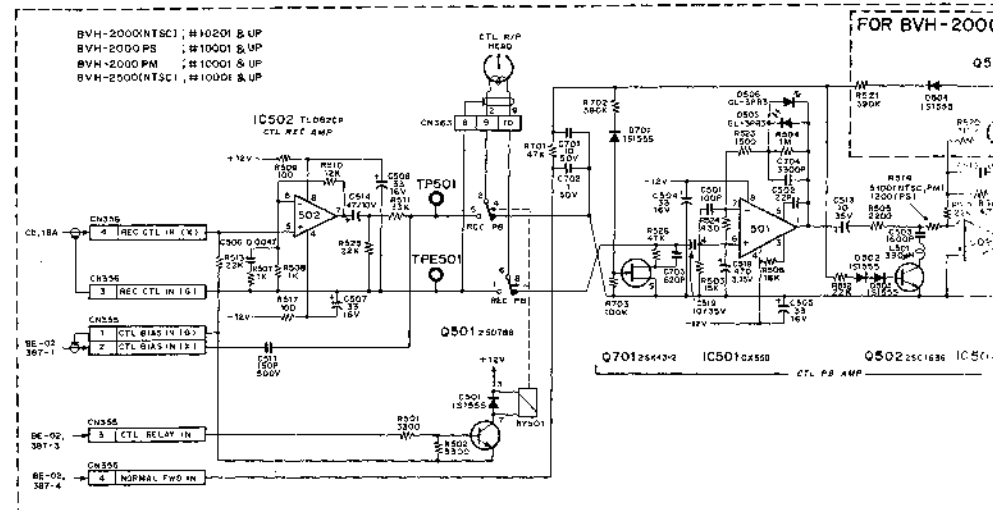
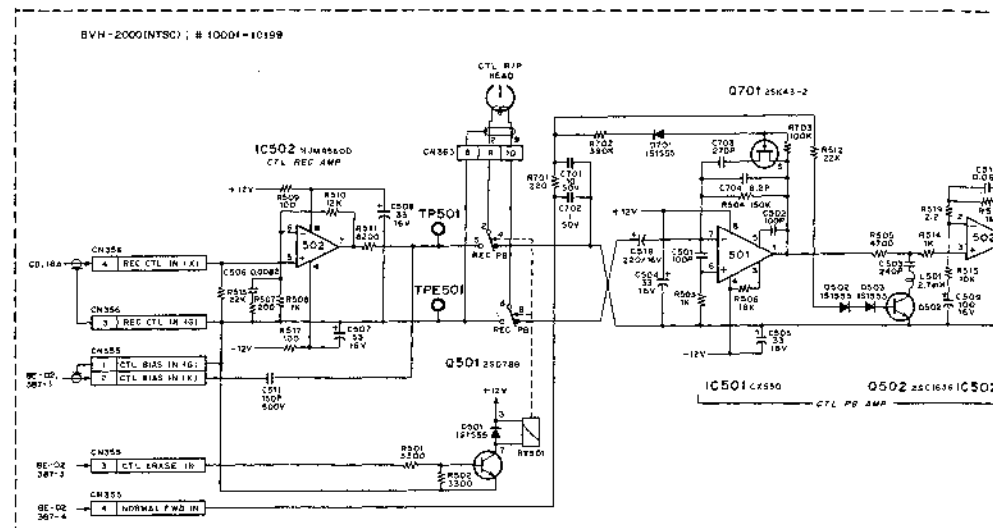
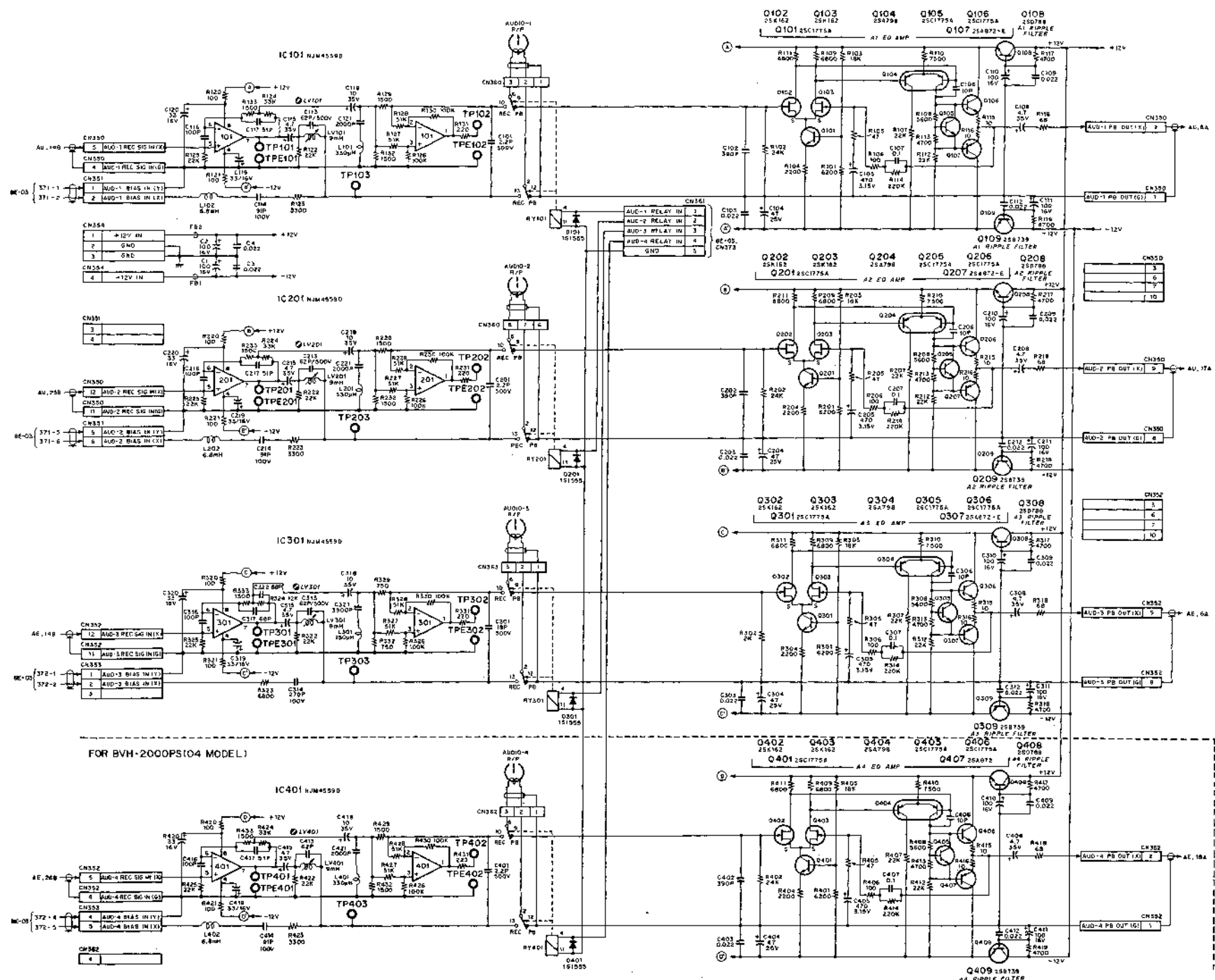
BVH-2000/PS/PM C-121 C-120 C-119 C-118 C-117 C-116 C-115 C-114 C-113 C-112 C-111 C-110 C-109 C-108 C-107 C-106 C-105 C-104 C-103 C-102 C-101 C-100 C-99 C-98 C-97 C-96 C-95 C-94 C-93 C-92 C-91 C-90 C-89 C-88 C-87 C-86 C-85 C-84 C-83 C-82 C-81 C-80 C-79 C-78 C-77 C-76 C-75 C-74 C-73 C-72 C-71 C-70 C-69 C-68 C-67 C-66 C-65 C-64 C-63 C-62 C-61 C-60 C-59 C-58 C-57 C-56 C-55 C-54 C-53 C-52 C-51 C-50 C-49 C-48 C-47 C-46 C-45 C-44 C-43 C-42 C-41 C-40 C-39 C-38 C-37 C-36 C-35 C-34 C-33 C-32 C-31 C-30 C-29 C-28 C-27 C-26 C-25 C-24 C-23 C-22 C-21 C-20 C-19 C-18 C-17 C-16 C-15 C-14 C-13 C-12 C-11 C-10 C-9 C-8 C-7 C-6 C-5 C-4 C-3 C-2 C-1

AP-06 BOARD

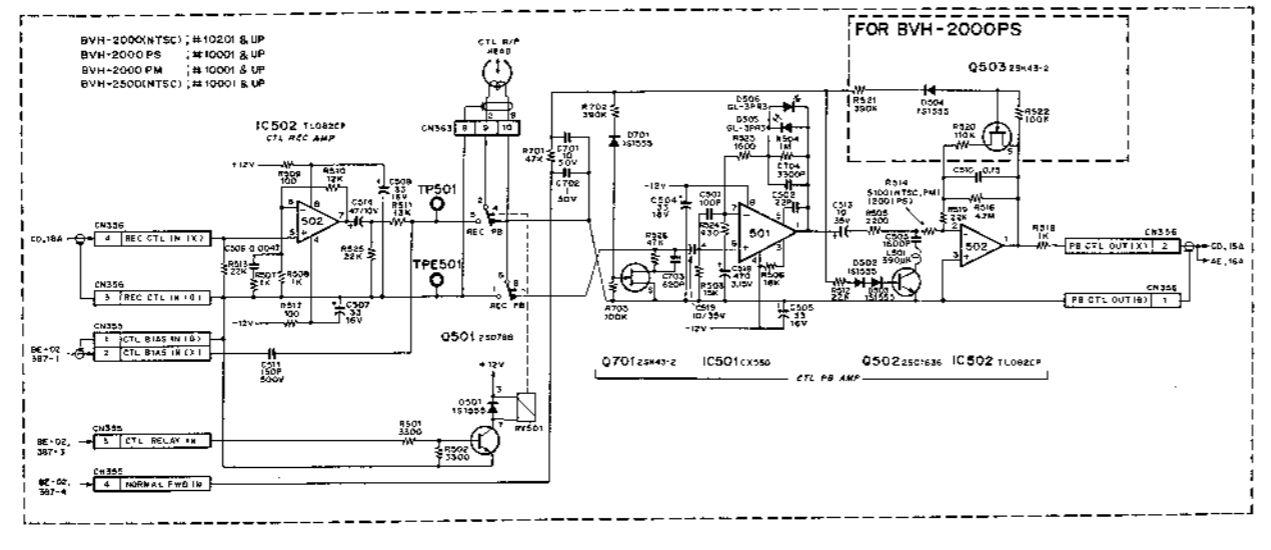
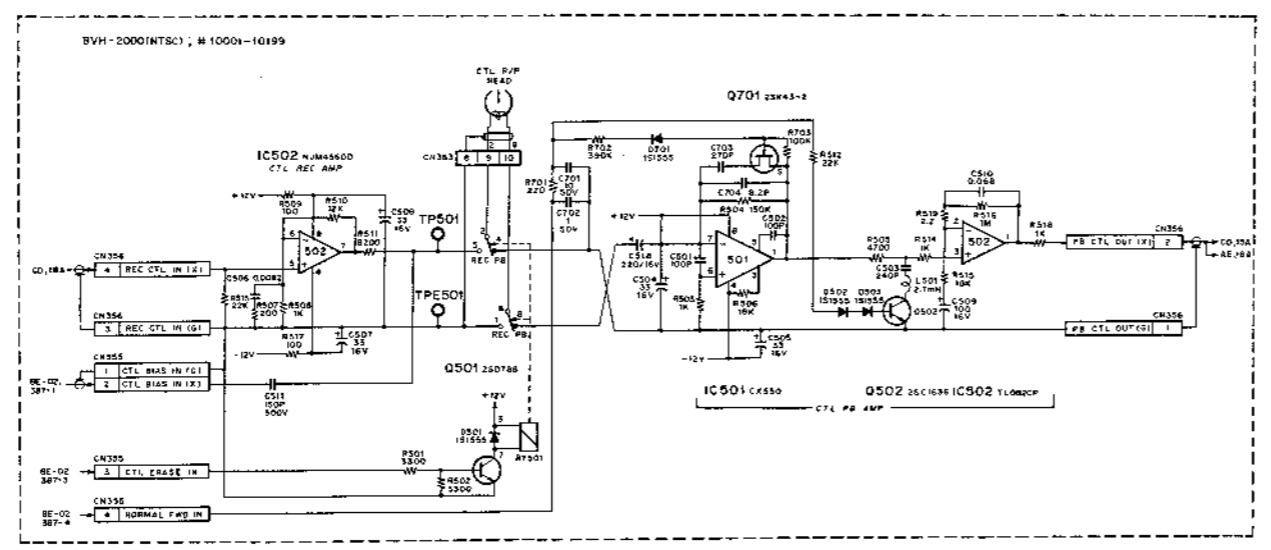
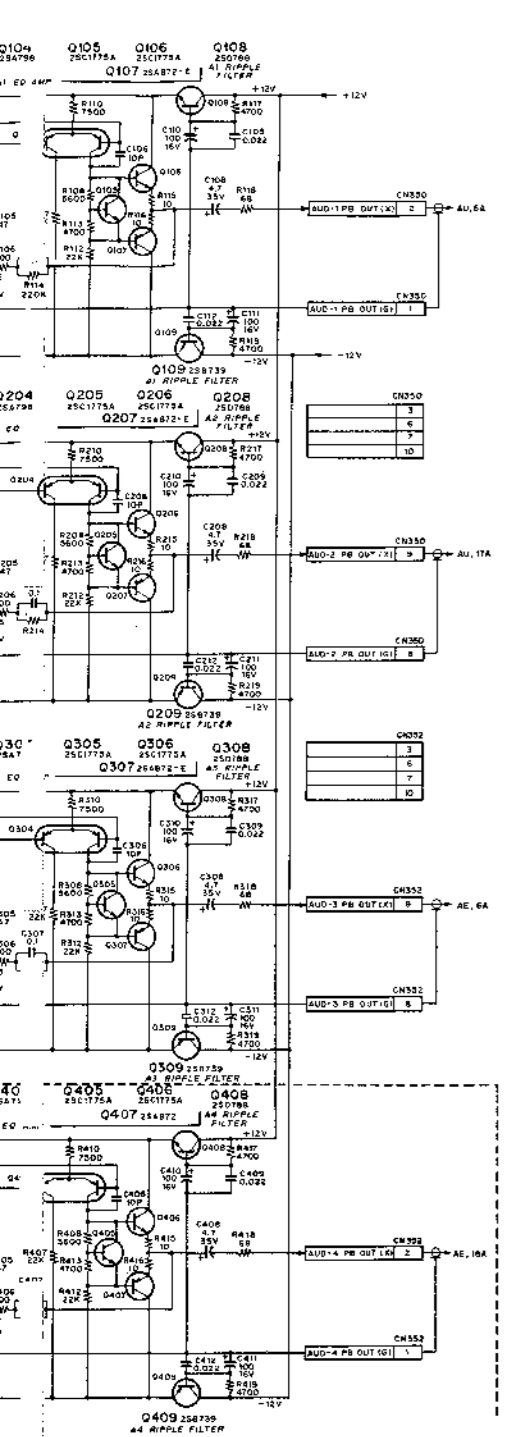
Audio/CTL, REC/PB Preamplifier

TAPE TRANSPORT AP-06

AP-06 TAPE TRANSPORT

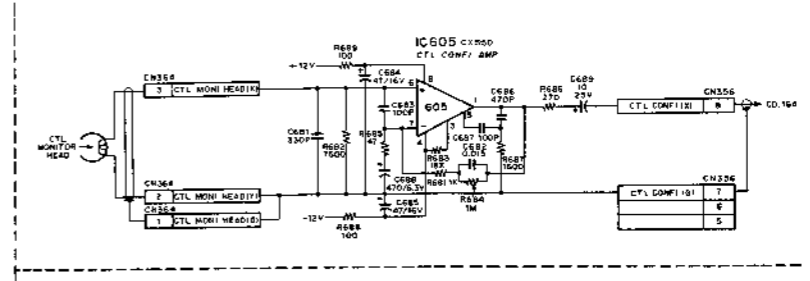
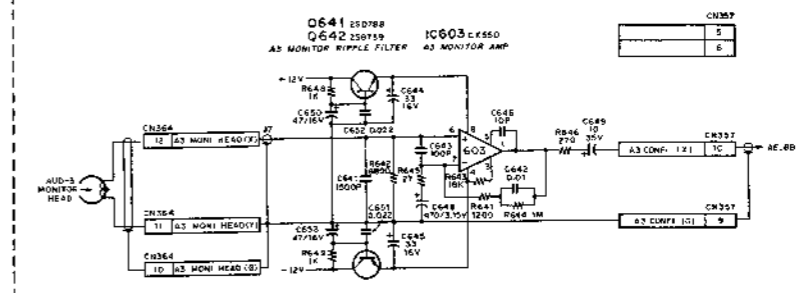
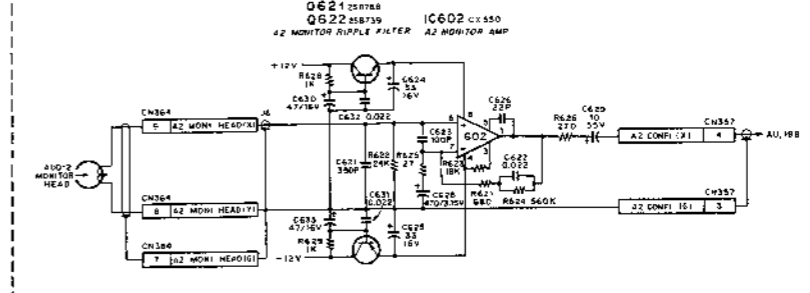
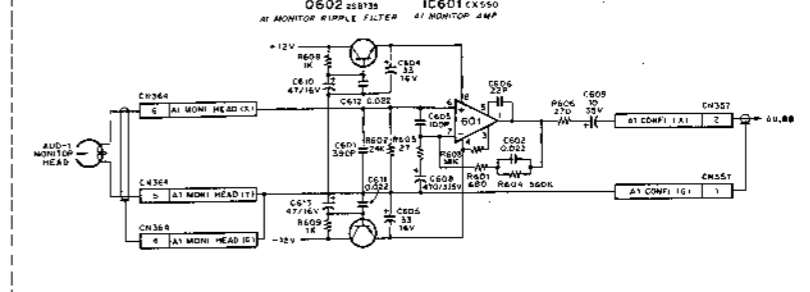


AP-06 BOARD
 BOARD NO. 1-606-673-1
 BVH-2000INTSCJ ; # 10001
 BVH-2000PS ; # 10001
 BVH-2000PM ; # 10001
 BVH-2000INTSCJ ; # 10001

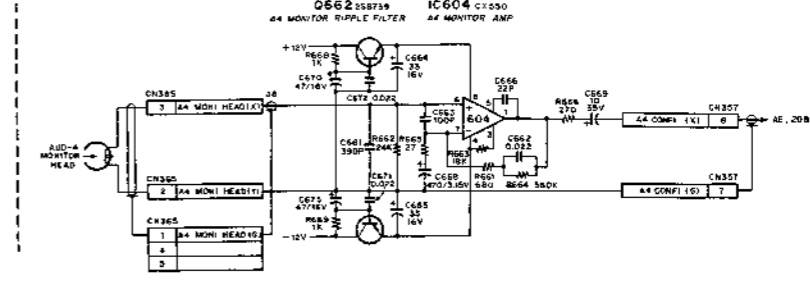


AP-06 BOARD
 BOARD NO. 1-506-673-11,12,13 & UP
 BVH-2000(J); # 10001-10001-10001-10001-
 BVH-2000(U/C); # 10001-10001-10001-10001-
 BVH-2000(P); # 10001-10001-10001-10001-
 BVH-2000(M); # 10001-10001-10001-10001-

FOR BVH-2000/PS/PM (02/04 MODEL)
FOR BVH-2500

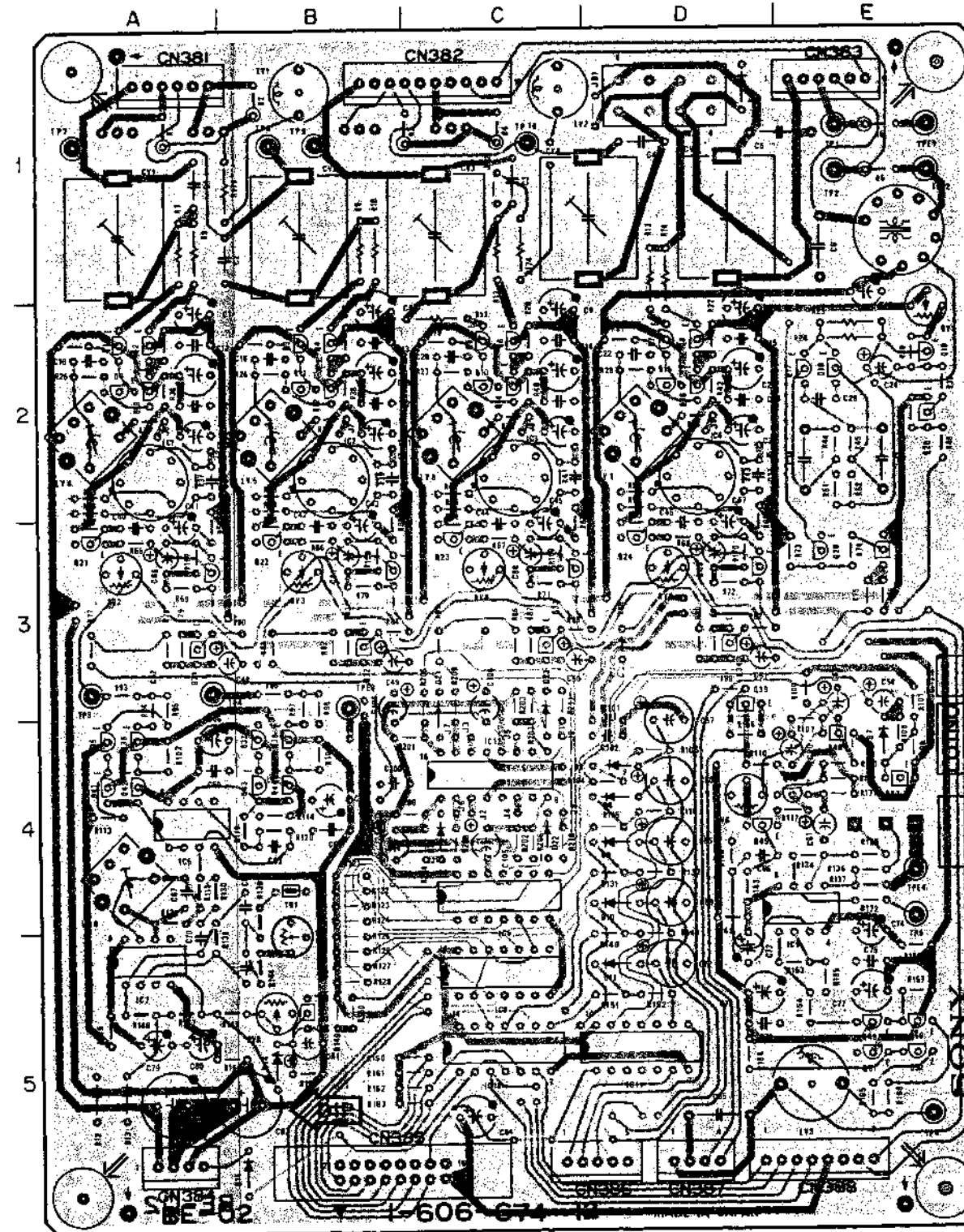


FOR BVH-2000PS(04 MODEL)





BE-02 BOARD (1-606-674-12)
Component Side



1-606-674-12. COMPONENT SIDE

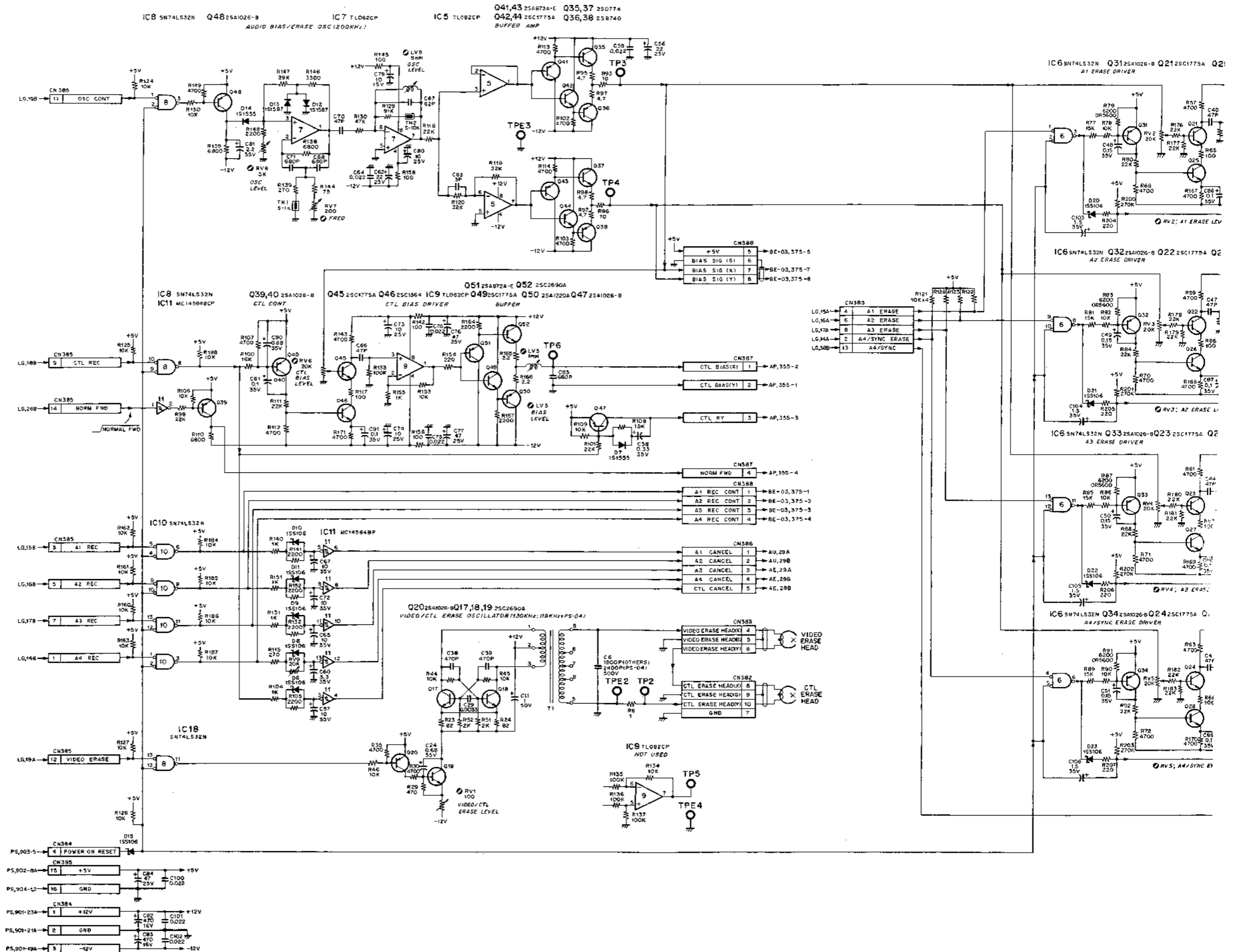
1-606-674-12

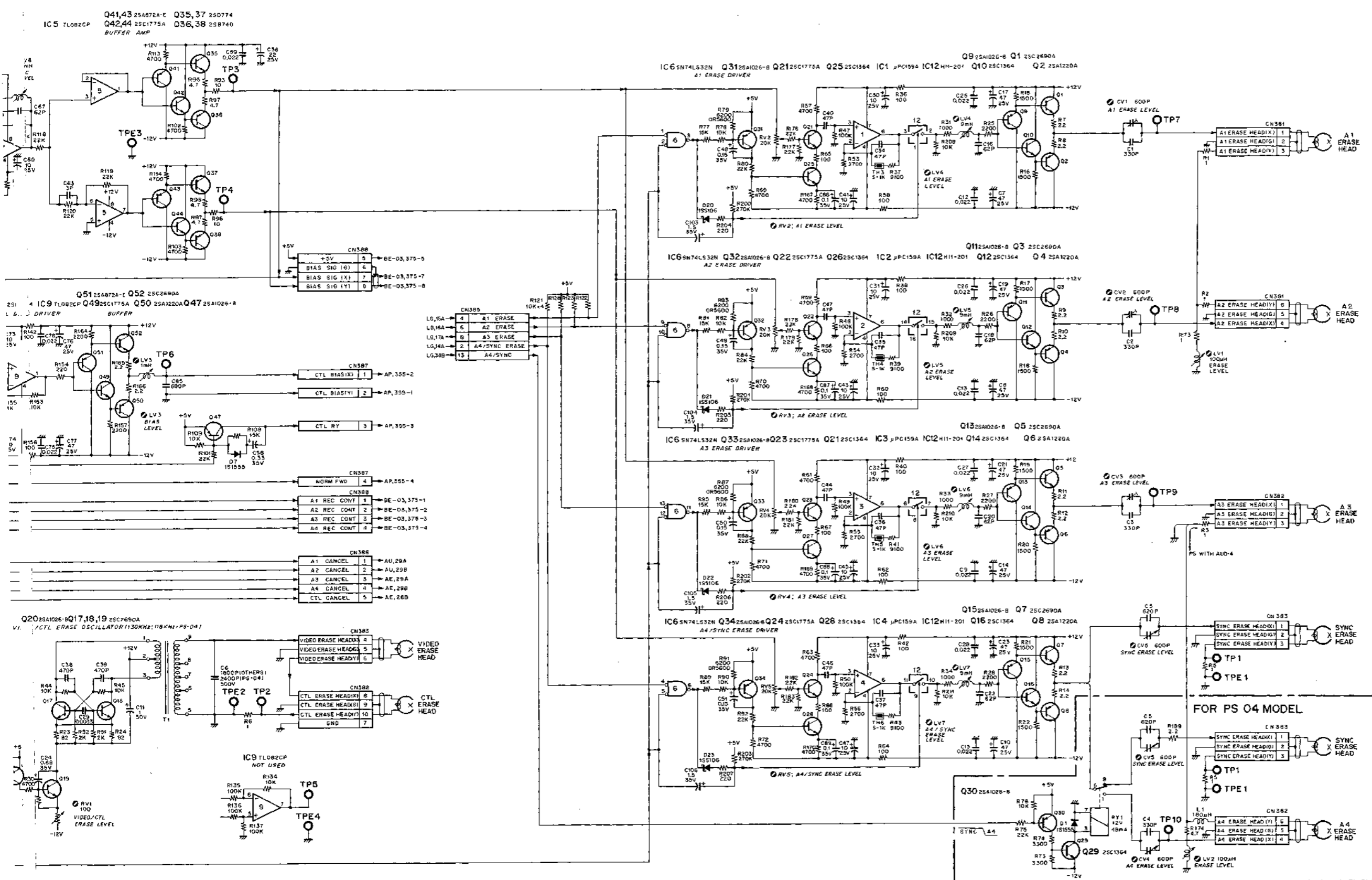
BE-02 (1-606-674-12)

BYH-2000(J,U/C)	Q28	30
BYH-2000PS	(PS 04 MODEL)	
BYH-2000PM	Q29	3E
	Q30	3E
CN381M		
1A		
CN382M	Q31	3A
1C	Q32	3B
CN383M	Q33	3C
1E	Q34	3D
CN384M	Q35	4A
5A	Q36	4A
CN385M	Q37	4B
5B	Q38	4B
CN386M	Q39	3D
5D	Q40	4E
CN387M	Q41	4A
5D	Q42	4A
CN388M	Q43	4B
5E	Q44	4B
	Q45	4D
CV1	Q46	4E
CV2	Q47	4E
CV3	Q48	5B
	Q49	5E
(PS 04 MODEL)	Q50	5E
CV4	Q51	5E
	Q52	5E
CV5	ID	
(PS 04 MODEL)		
D1	ID	
D6	4D	
D7	4E	
D8	4D	
D9	4D	
D10	4D	
D11	5D	(PS 04 MODEL)
D12	5A	RV9 4D
D13	5A	
D14	5B	(PS 04 MODEL)
D15	5B	RY1 1D
D20	4C	
D21	3C	TH1 4B
D22	4C	TH2 4A
D23	3C	TH3 2A
		TH4 2B
		TH5 2C
		TH6 2D
IC1	2A	
IC2	2B	
IC3	2C	
IC4	2D	TP1 1E
IC5	4A	TP2 1E
IC6	4C	TP3 3A
IC7	5A	TP4 3A
IC8	4C	TP5 4E
IC9	4E	TP6 5E
IC10	5C	TP7 1A
IC11	5D	TP8 1B
IC12	4C	TP9 1B
LV1	1B	(PS 04 MODEL)
		TP10 1C
(PS 04 MODEL)		
LV2	1C	TPE1 1E
		TPE2 1E
LV3	5E	TPE3 3B
LV4	2A	TPE4 4E
LV5	2B	
LV6	2C	
LV7	2D	
LV8	4A	
Q1	2A	
Q2	2A	
Q3	2B	
Q4	2B	
Q5	2C	
Q6	2C	
Q7	2D	
Q8	2D	
Q9	2A	
Q10	2A	
Q11	2B	
Q12	2B	
Q13	2C	
Q14	2C	
Q15	2D	
Q16	2D	
Q17	2E	
Q18	2E	
Q19	2E	
Q20	2E	
Q21	3A	
Q22	3B	
Q23	3C	
Q24	3D	
Q25	3A	
Q26	3B	
Q27	3C	

BE-02 BOARD

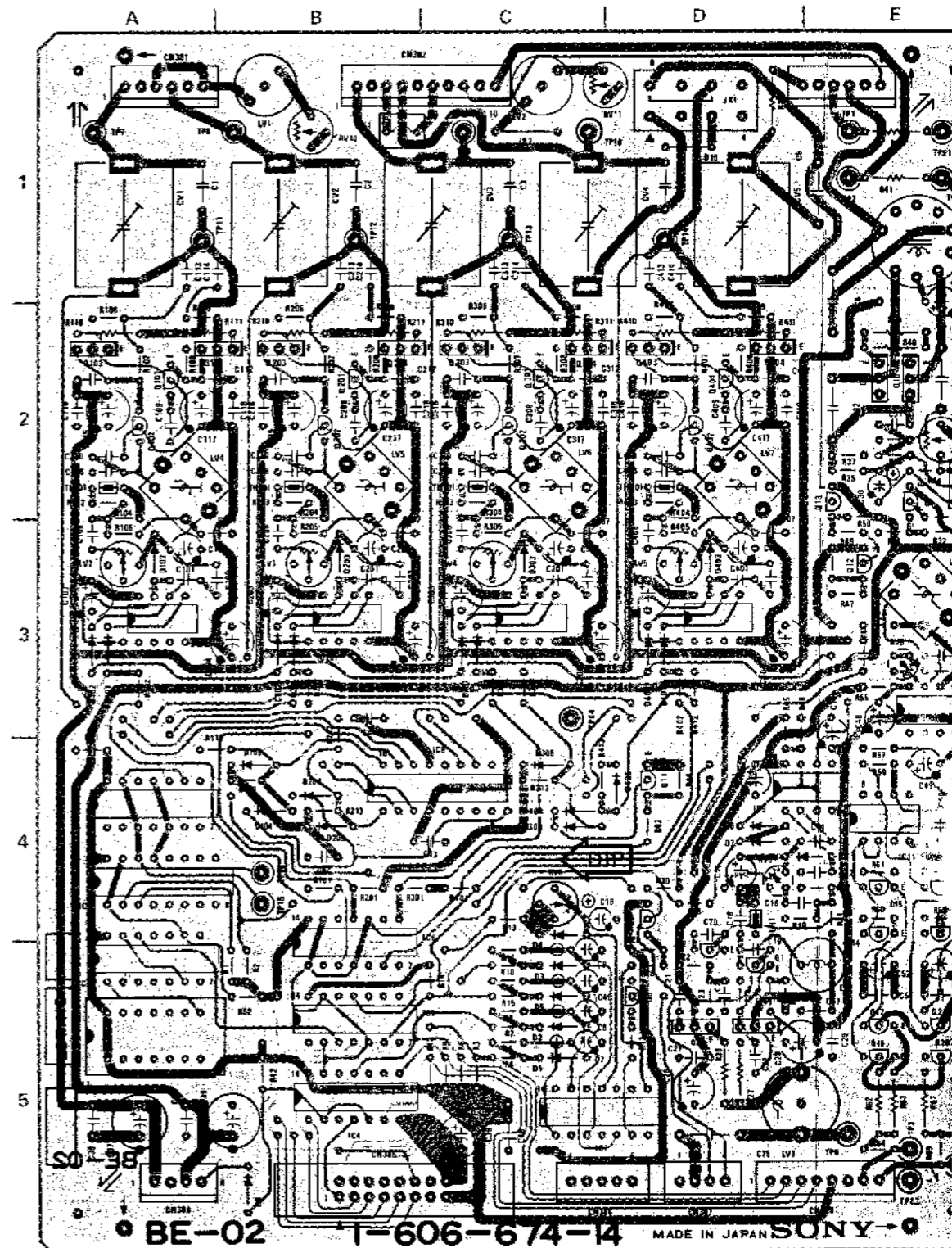
Audio Bias/Erase Oscillator





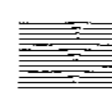
BE-02 BOARD
 BOARD NO. 1 - 606-674-11/-12
 BVH-2000 (J); # 10001-11499
 BVH-2000 (U/C); # 10001-11599
 BVH-2000PS; # 10001-11399
 BVH-2000PM; # 10001-10199

BE-02 BOARD (1-606-674-14)
Component Side



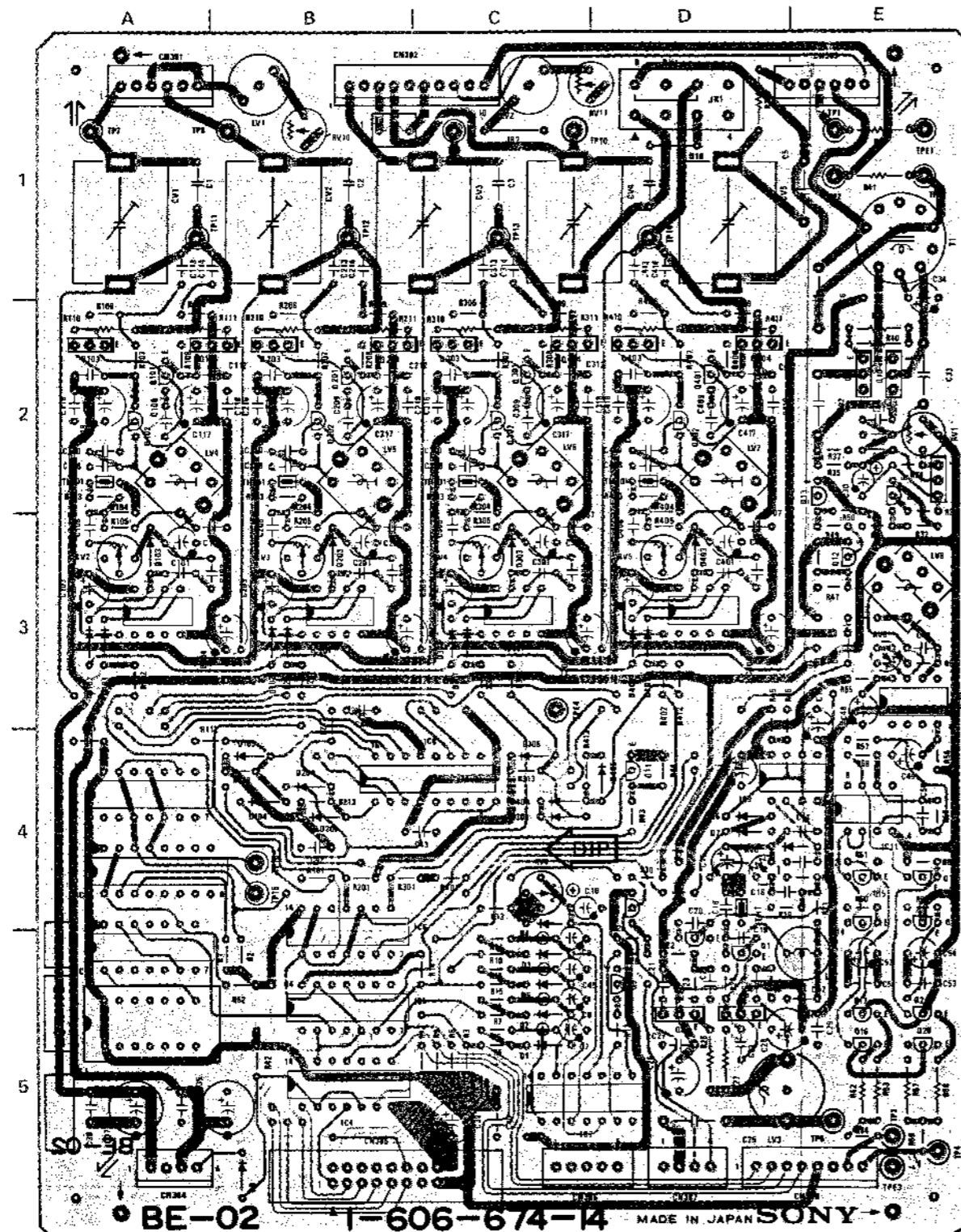
1-606-674-14
COMPONENT SIDE

1-606-674-14
SOLDER SIDE



BE-02 BOARD (1-606-674-14)

Component Side



1-606-674-14 COMPONENT SIDE

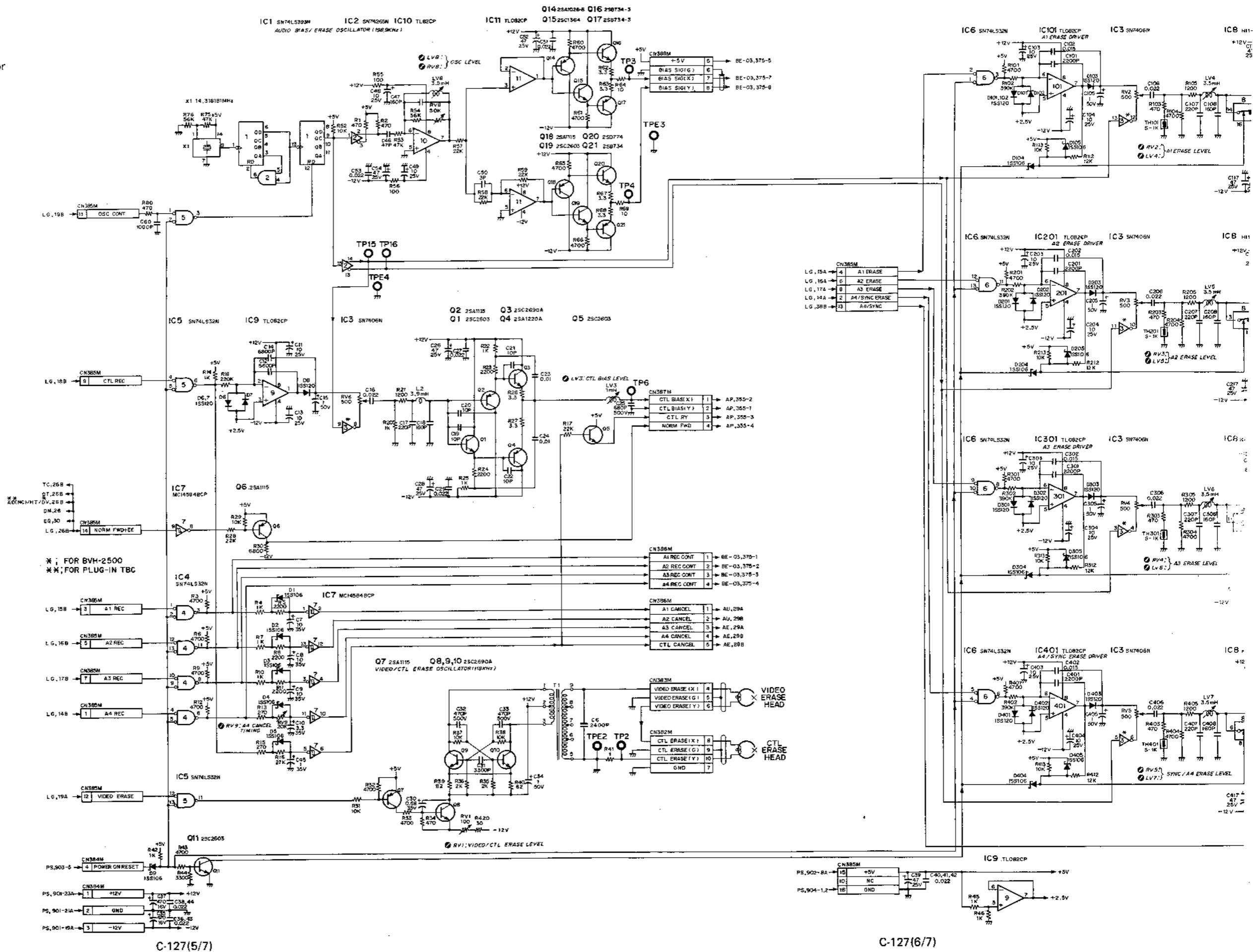
1-606-674-14 SOLDER SIDE

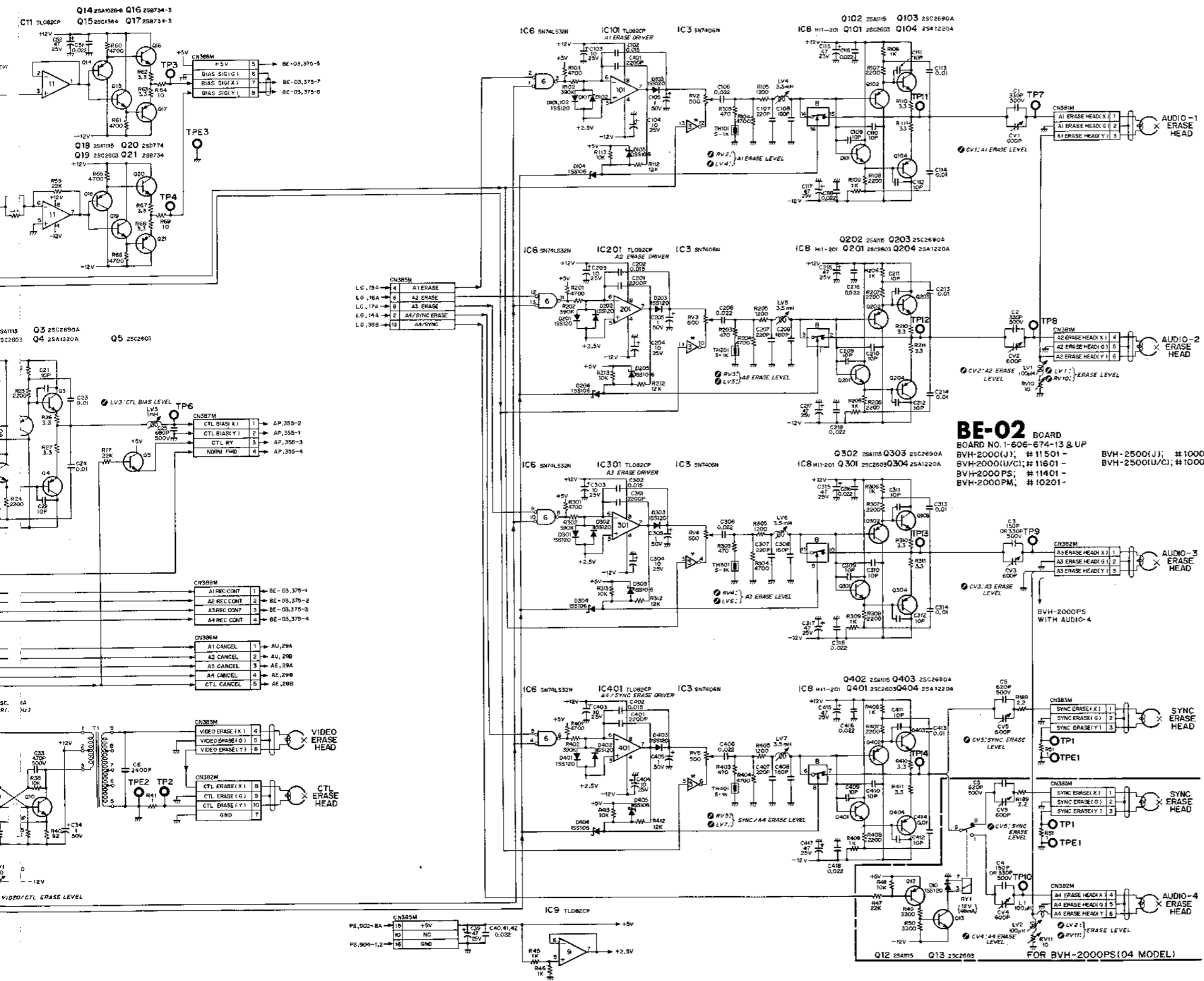
BE-02 (1-606-674-14 & OPT)

BVH-2000 (J,U/C)
BVH-2000PS
BVH-2000PM
BVH-2500 (J,U/C)

CN381M	06	4D	
1A	07	2E	
CN382M	08	2E	
1C	09	2E	
CN383M	Q10	2E	
1E	Q11	4D	
CN384M			
5A	(PS 04 MODEL)		
CN385M	Q12	3E	
5B	Q13	2E	
CN386M			
5D	Q14	4E	
CN387M	Q15	4E	
5D	Q16	5E	
CN388M	Q17	5E	
5E	Q18	4E	
	Q19	4E	
CV1	1A	Q20	5E
CV2	1B	Q21	5E
CV3	1C	Q101	2A
		Q102	2A
(PS 04 MODEL)		Q103	2A
CV4	1C	Q104	2B
		Q201	2B
CV5	1D	Q202	2B
		Q203	2B
D1	5C	Q204	2B
D2	5C	Q301	2C
D3	5C	Q302	2C
D4	4C	Q303	2C
D5	5C	Q304	2C
D6	4D	Q401	2D
D7	4D	Q402	2D
D8	4E	Q403	2D
D9	5B	Q404	2D
D10	1D		
D101	3A	RV1	2E
D102	3A	RV2	3A
D103	3A	RV3	3B
D104	4B	RV4	3C
D105	4B	RV5	3D
D201	3B	RV6	4D
D202	3B	RV8	3E
D203	3B	RV9	4C
D204	4B	RV10	1B
D205	4B		
D301	3C	(PS 04 MODEL)	
D302	3C	RV11	1D
D303	3C		
D304	4C	(PS 04 MODEL)	
D305	4C	RY1	1D
D401	3D		
D402	3D	TH101	2A
D403	3D	TH201	2B
D404	4C	TH301	2C
D405	4D	TH401	2D
IC1	5A	TP1	1E
IC2	4A	TP2	1E
IC3	4A	TP3	5E
IC4	5B	TP4	5E
IC5	5B	TP6	5E
IC6	4B	TP7	1A
IC7	5D	TP8	1B
IC8	4C	TP9	1C
IC9	4D		
IC10	3E	(PS 04 MODEL)	
IC11	4E	TP10	1C
IC101	3A		
IC201	3B	TP11	1A
IC301	3C	TP12	1B
IC401	3D	TP13	1C
		TP14	1D
		TP15	4B
		TP16	4B
LV1	1B		
(PS 04 MODEL)		TPE1	1E
LV2	1C	TPE2	1E
		TPE3	5E
LV3	5D	TPE4	3C
LV4	2A		
LV5	2B	X1	5A
LV6	2C		
LV7	2D		
LV8	3E		
Q1	5D		
Q2	5D		
Q3	5D		
Q4	5D		
Q5	5D		

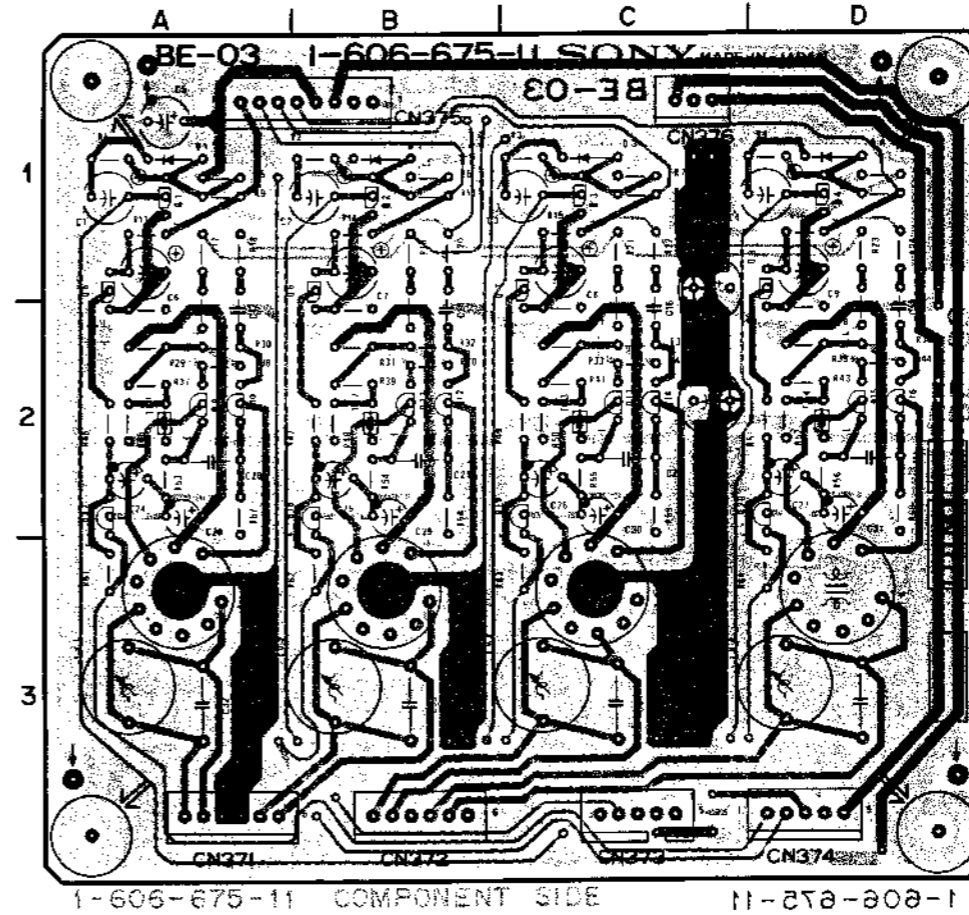
BE-02 BOARD
Audio Bias/Erase Oscillator





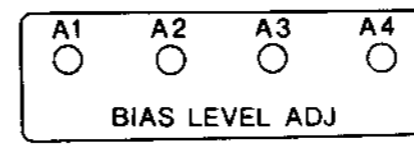
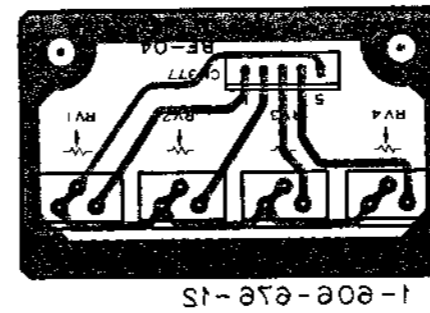
BE-02 BOARD
 BOARD NO. 1-606-674-13 & UP
 BVH-2500(U/J); # 10001-
 BVH-2000(U/C); # 11501-
 BVH-2000(P/S); # 11601-
 BVH-2000(P/M); # 11401-
 BVH-2500(U/C); # 10001-
 BVH-2500(P/S); # 11401-
 BVH-2500(P/M); # 10201-

BE-03 BOARD (1-606-675-11)
Component Side



- BE-03 (1-606-675-11)
- BVH-2000(J,U/C)
 - BVH-2000PS
 - BVH-2000PM
 - CN371M 3A
 - CN372M 3B
 - CN373M 3C
 - CN374M 3D
 - CN375M 1B
 - CN376M 1C
 - D1 1A
 - D2 1B
 - D3 1C
 - (PS 04 MODEL)
 - D4 1D
 - LV1 3A
 - LV2 3B
 - LV3 3C
 - (PS 04 MODEL)
 - LV4 3D
 - Q1 1A
 - Q2 1B
 - Q3 1C
 - (PS 04 MODEL)
 - Q4 1D
 - Q5 1A
 - Q6 1B
 - Q7 1C
 - (PS 04 MODEL)
 - Q8 1D
 - Q9 2A
 - Q10 2A
 - Q11 2B
 - Q12 2B
 - Q13 2C
 - Q14 2C
 - (PS 04 MODEL)
 - Q15 2D
 - Q16 2D
 - Q17 2A
 - Q18 2B
 - Q19 2C
 - (PS 04 MODEL)
 - Q20 2D
 - TH1 2A
 - TH2 2B
 - TH3 2C
 - (PS 04 MODEL)
 - TH4 2D

BE-04 BOARD (1-606-676-12)
Component Side

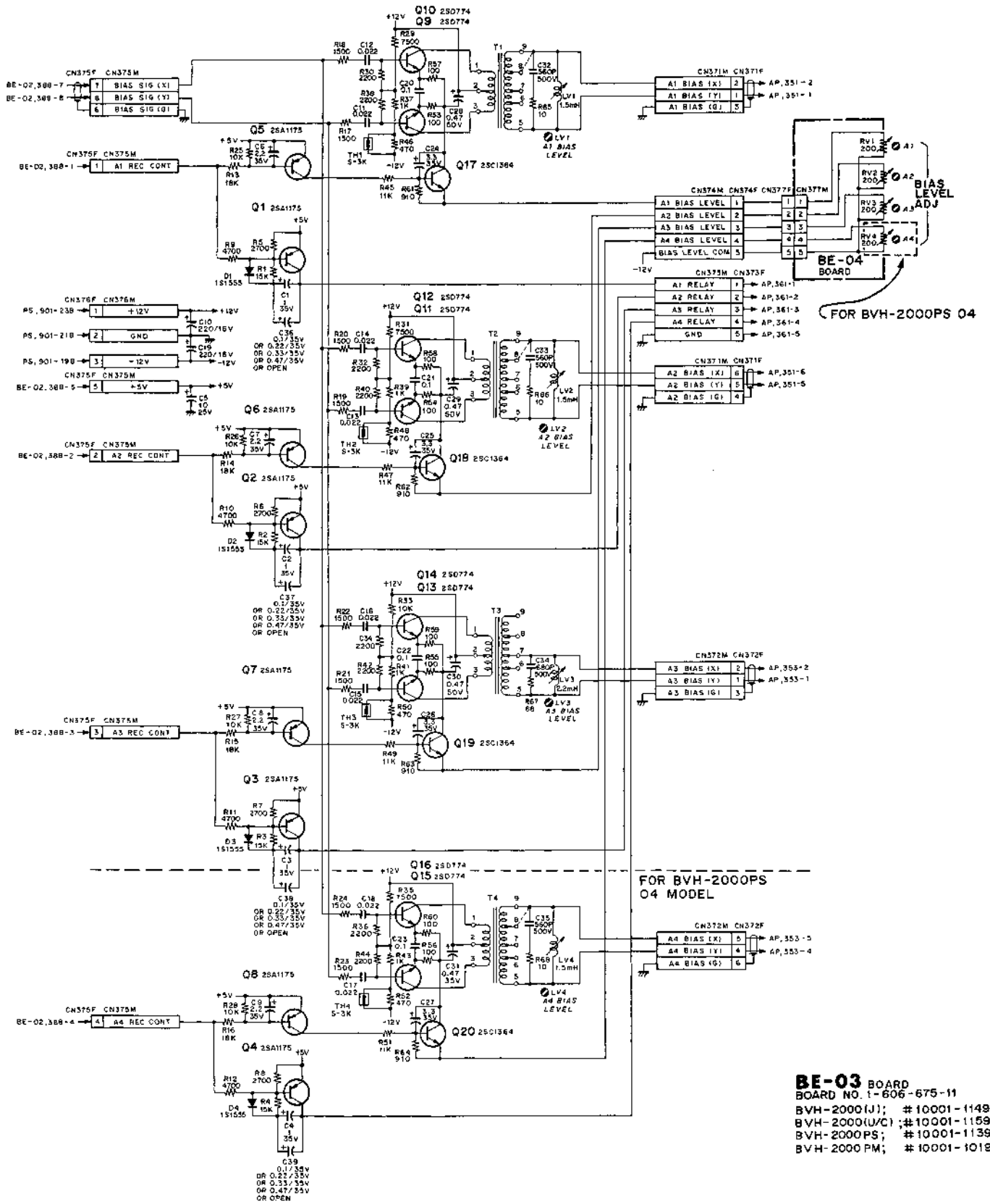


BE-03; 1-606-675-11
 BE-04; 1-606-676-11, 12

TAPE TRANSPORT BE-03, BE-04

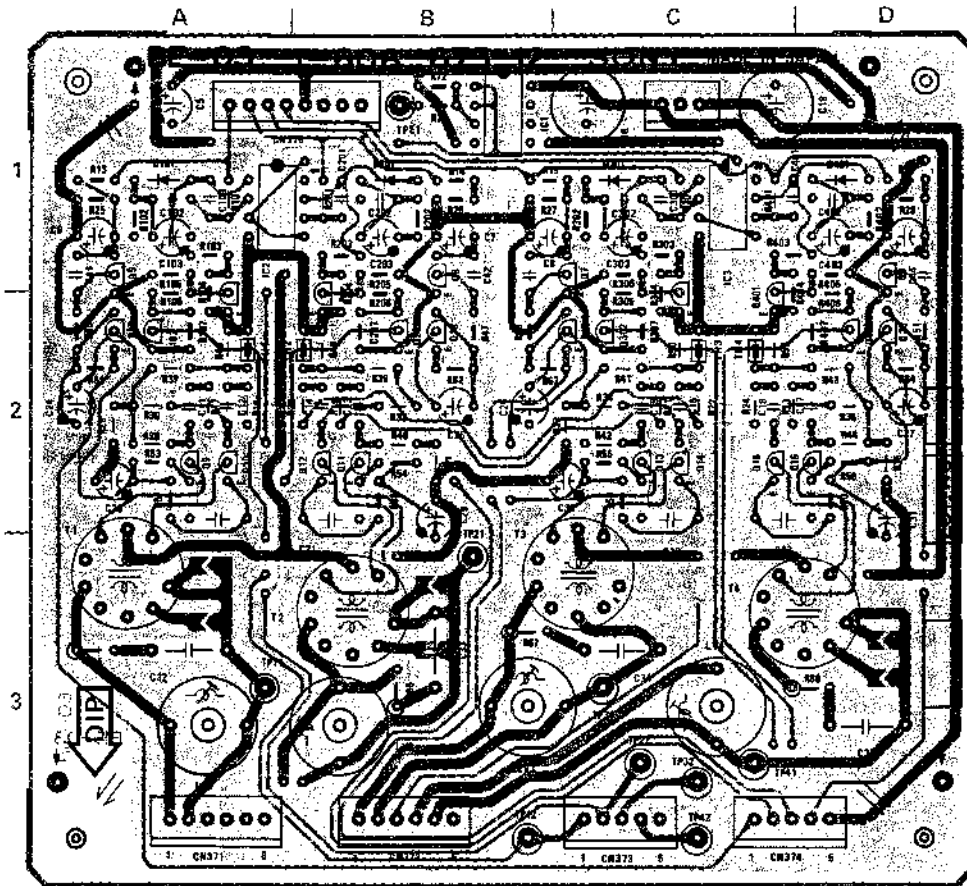
BE-03/BE-04 BOARD

Audio Bias Amplifier
 Audio Bias Level Adj.



BE-03 BOARD
 BOARD NO. 1-606-675-11
 BVH-2000(I); # 10001-1149
 BVH-2000(U/C); # 10001-1159
 BVH-2000PS; # 10001-1139
 BVH-2000 PM; # 10001-1018

BE-03 BOARD (1-606-675-12)
Component Side



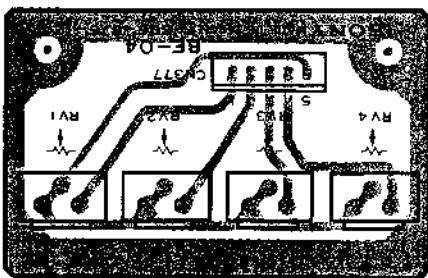
BE-03 (1-606-675-12 & UP)

BVH-2000 (J, D/C)	Q17	2A
BVH-2000PS	Q18	2B
BVH-2000PM	Q19	2C
BVH-2500 (J, D/C)		
CN371M	Q20	2D
CN372M		
CN373M		(PS 04 MODEL)
CN374M		
CN375M	Q101	1A
CN376M	Q102	2A
	Q201	1B
	Q202	2B
	Q301	1C
	Q302	2C
D101		
D201		(PS 04 MODEL)
D301	Q401	1D
	Q402	2D
(PS 04 MODEL)		
D401	TH1	2A
	TH2	2B
	TH3	2C
IC1		(PS 04 MODEL)
IC2		
IC3		
	TH4	3D
LV1	TP11	3A
LV2	TP12	3C
LV3	TP21	3B
(PS 04 MODEL)	TP22	3C
LV4	TP31	3C
	TP32	3C
Q5		(PS 04 MODEL)
Q6	TP41	3D
Q7	TP42	3C
(PS 04 MODEL)		
Q8	TPE1	1B
Q9		
Q10		
Q11		
Q12		
Q13		
Q14		
(PS 04 MODEL)		
Q15		2D
Q16		2D

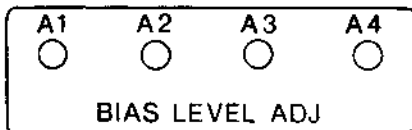
1-606-675-12 COMPONENT SIDE

1-606-675-12

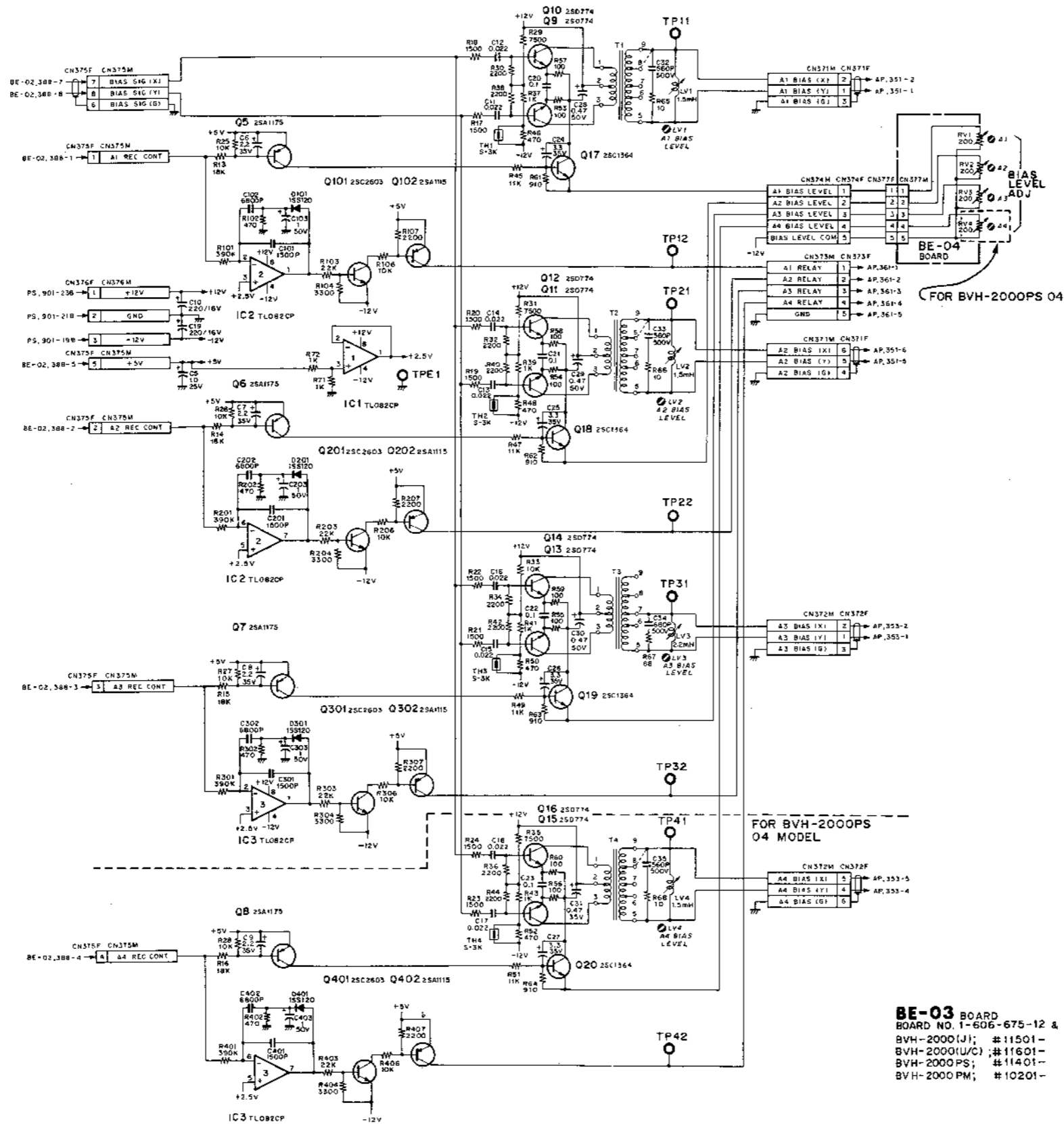
BE-04 BOARD (1-606-676-12)
Component Side



1-606-676-12

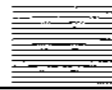


BE-03/BE-04 BOARD
Audio Bias Amplifier
Audio Bias Level Adj.

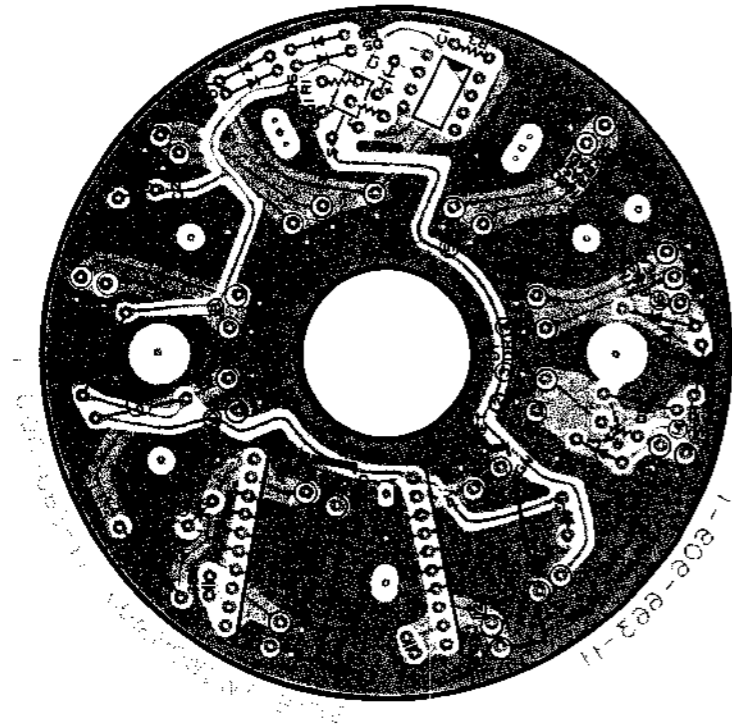


BE-03 BOARD
BOARD NO. 1-606-675-12 & UP
BVH-2000(J); # 11501- BVH-2500(J); # 10001-
BVH-2000(U/C); # 11601- BVH-2500(U/C); # 10001-
BVH-2000 PS; # 11401-
BVH-2000 PM; # 10201-

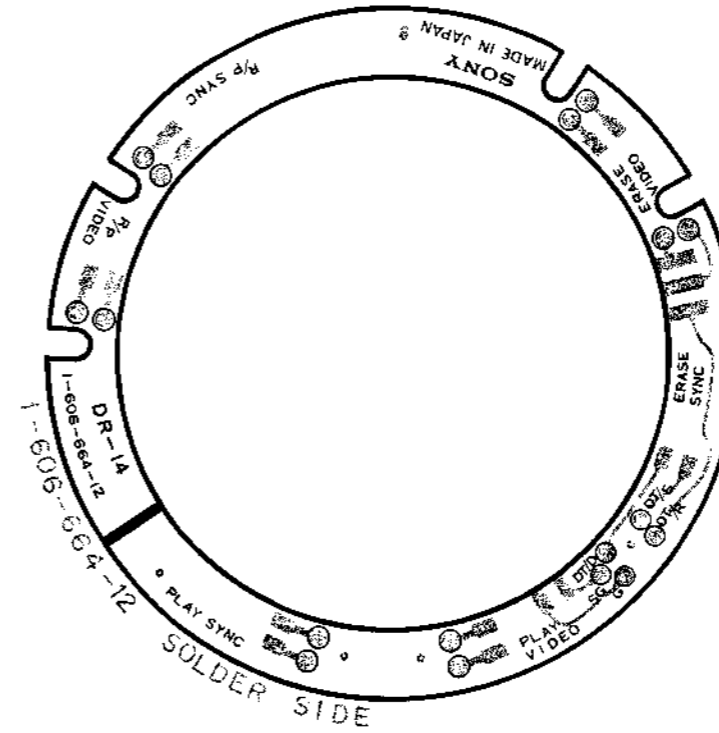
C-132(3/3)
C-132(2/3)
BVH-2000/PS/PM
C-168
C-167
BVH-2500



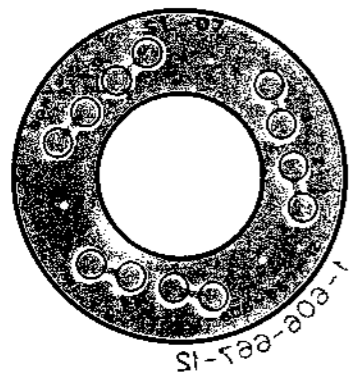
DR-13 BOARD (1-606-663-11)
Component Side



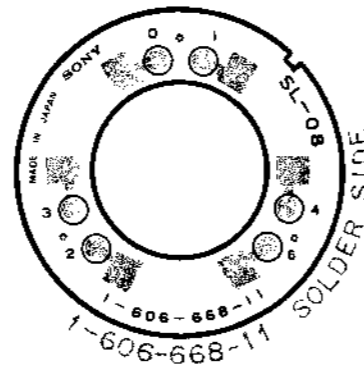
DR-14 BOARD (1-606-664-12)
Solder Side



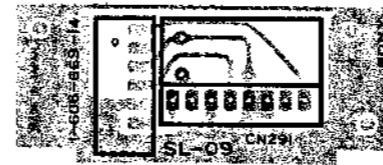
SL-07 BOARD (1-606-667-12)
Component Side



SL-08 BOARD (1-606-668-11)
Solder Side

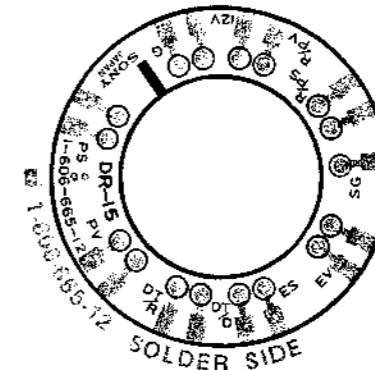


SL-09 BOARD (1-606-669-14)
Component Side



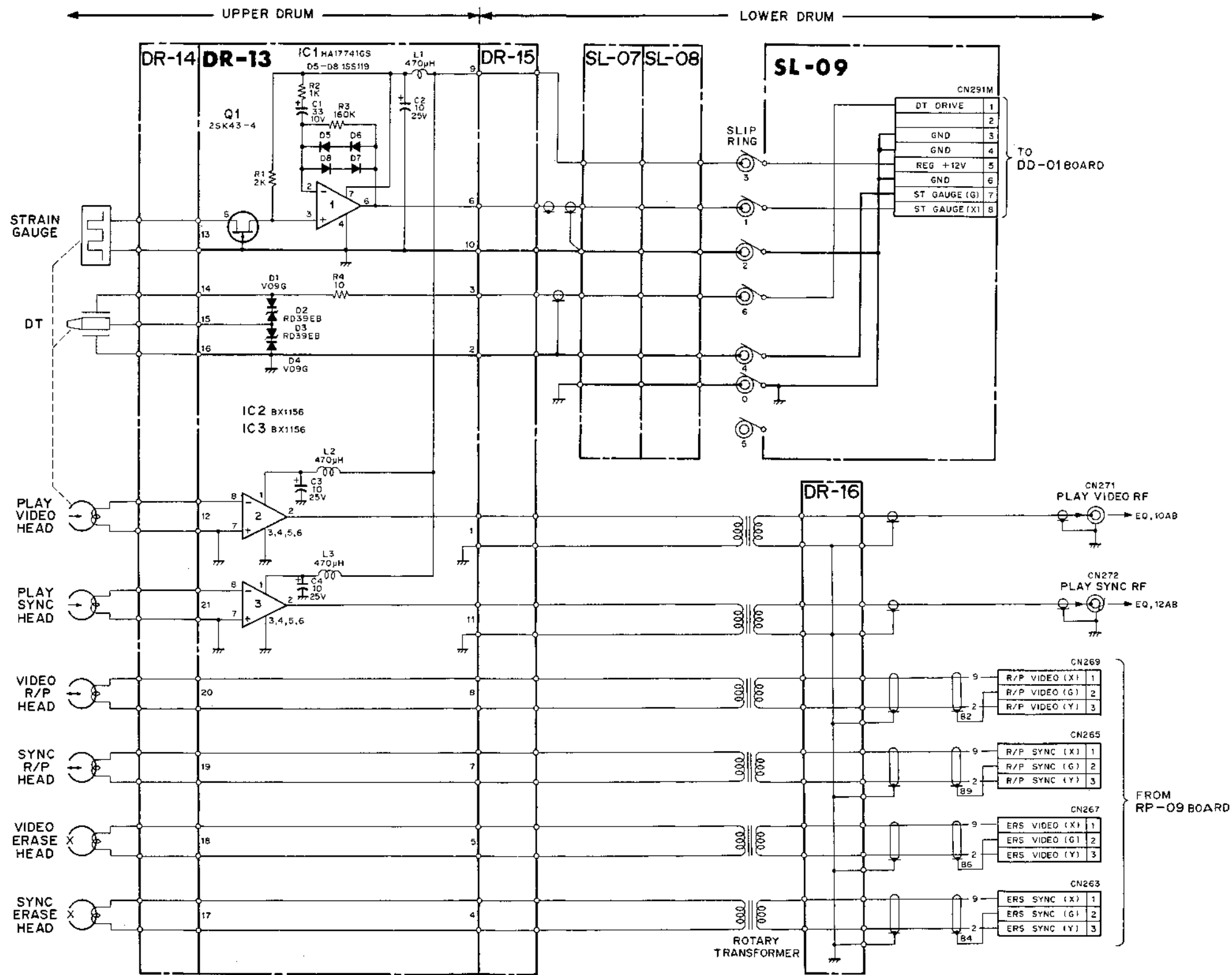
1-606-669-14
COMPONENT SIDE
1-606-669-14
SOLDER SIDE

DR-15 BOARD (1-606-665-12)
Solder Side



HEAD DRUM ; FOR 02/04 MODEL

- DR-13 BOARD: Video/Sync PB Amplifier
- DR-14 BOARD: Rotary Head Relaying
- DR-15 BOARD: Rotary Head Relaying
- DR-16 BOARD: Rotary Head Relaying
- SL-07 BOARD: Slip Ring Relaying
- SL-08 BOARD: Slip Ring Relaying
- SL-09 BOARD: Slip Ring Relaying



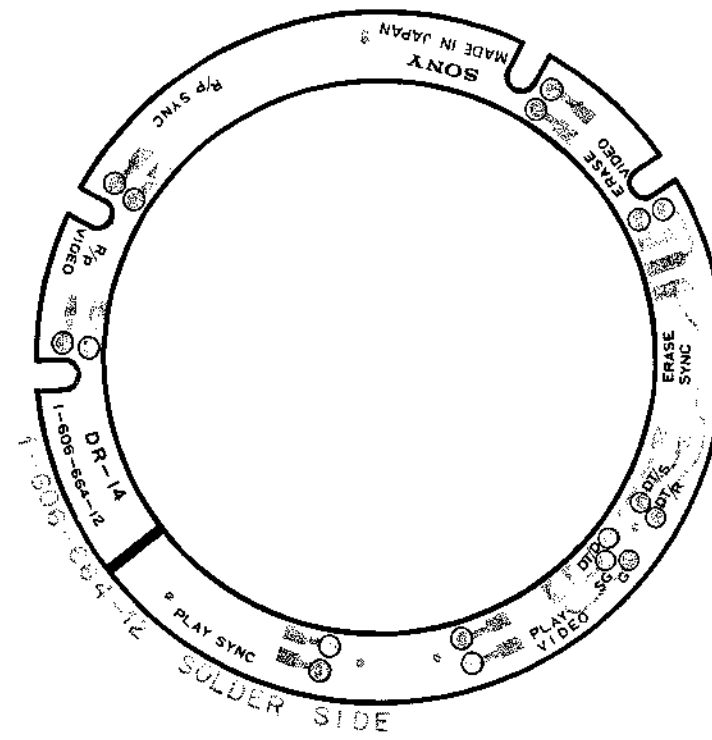
HEAD DRUM ASSY; DMH-17A-R (FOR NTSC, PM 02 MODEL)
 UPPER DRUM ASSY; DMH-18A-R (FOR PS 02/04 MODEL)
 LOWER DRUM ASSY; DMR-17-R (FOR NTSC, PM 02 MODEL)
 DMR-18-R (FOR PS 02/04 MODEL)
 DML-17A-R

HEAD DRUM (FOR 02/04)

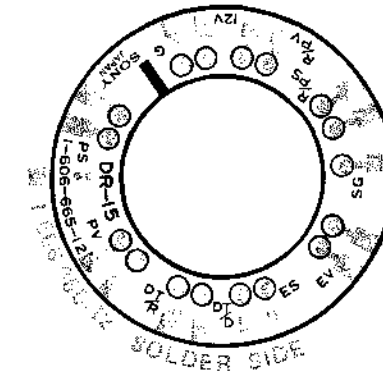
- BVH-2000(J); #10001-
- BVH-2000(U/C); #10001-
- BVH-2000PS; #10001-
- BVH-2000PM; #10001-



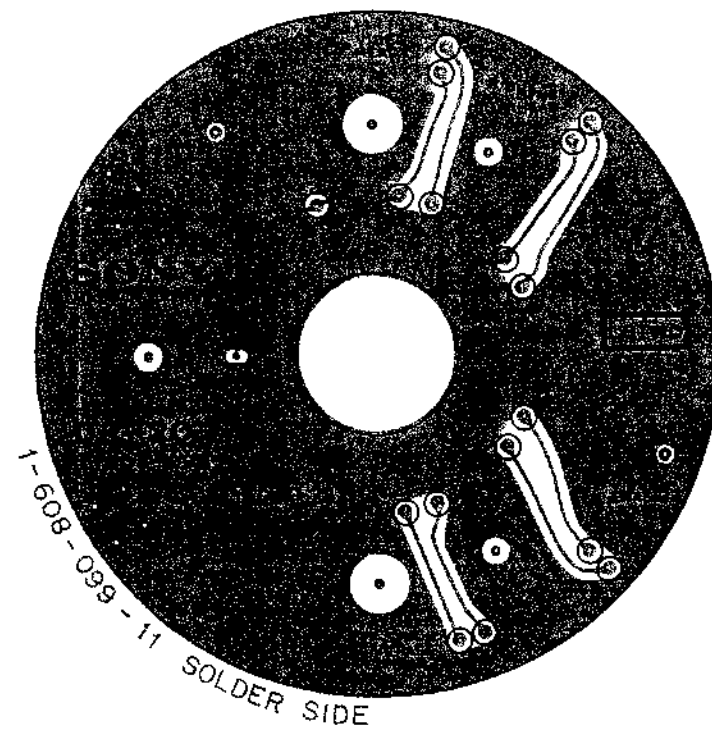
DR-14 BOARD (1-606-664-12)
Solder Side



DR-15 BOARD (1-606-665-12)
Solder Side



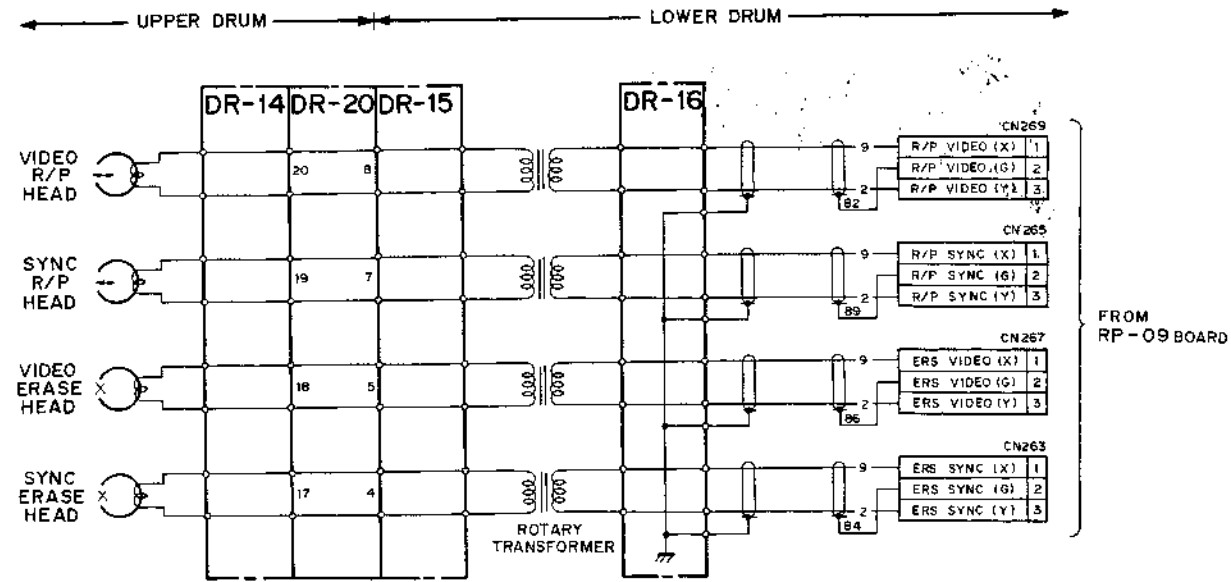
DR-20 BOARD (1-608-099-11)
Component Side





HEAD DRUM; FOR 00 MODEL

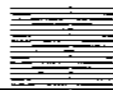
- DR-14 BOARD:** Rotary Head Relaying
- DR-15 BOARD:** Rotary Head Relaying
- DR-20 BOARD:** Rotary Head Relaying



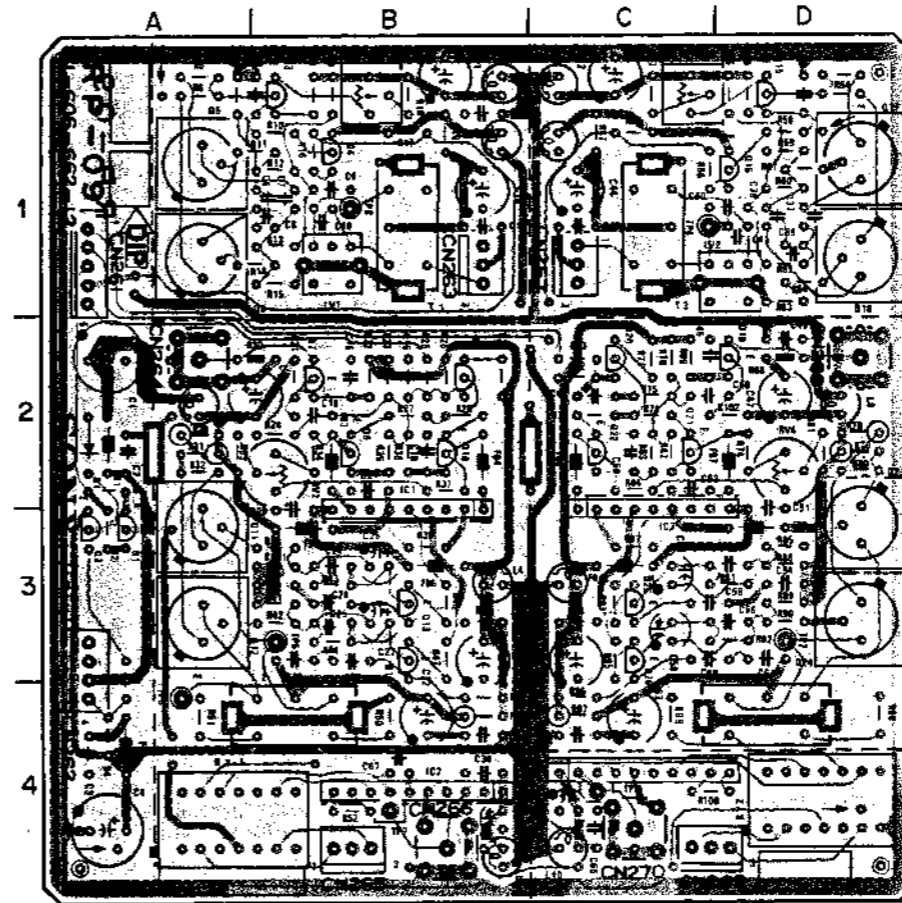
HEAD DRUM ASSY; DMH-19A-R (FOR NTSC, PM 00 MODEL)
 DMH-20A-R (FOR PS, 00 MODEL)
 UPPER DRUM ASSY; DMR-19-R (FOR NTSC, PM 00 MODEL)
 DMR-20-R (FOR PS 00 MODEL)
 LOWER DRUM ASSY; DML-19A-R

HEAD DRUM (FOR 00 MODEL)

BVH-2000(J); #10001-
 BVH-2000(L/C); #10001-
 BVH-2000PS; #10001-



RP-09 BOARD (1-606-662-12)
Component Side



1-606-662-12 COMPONENT SIDE

SI-588-800-1

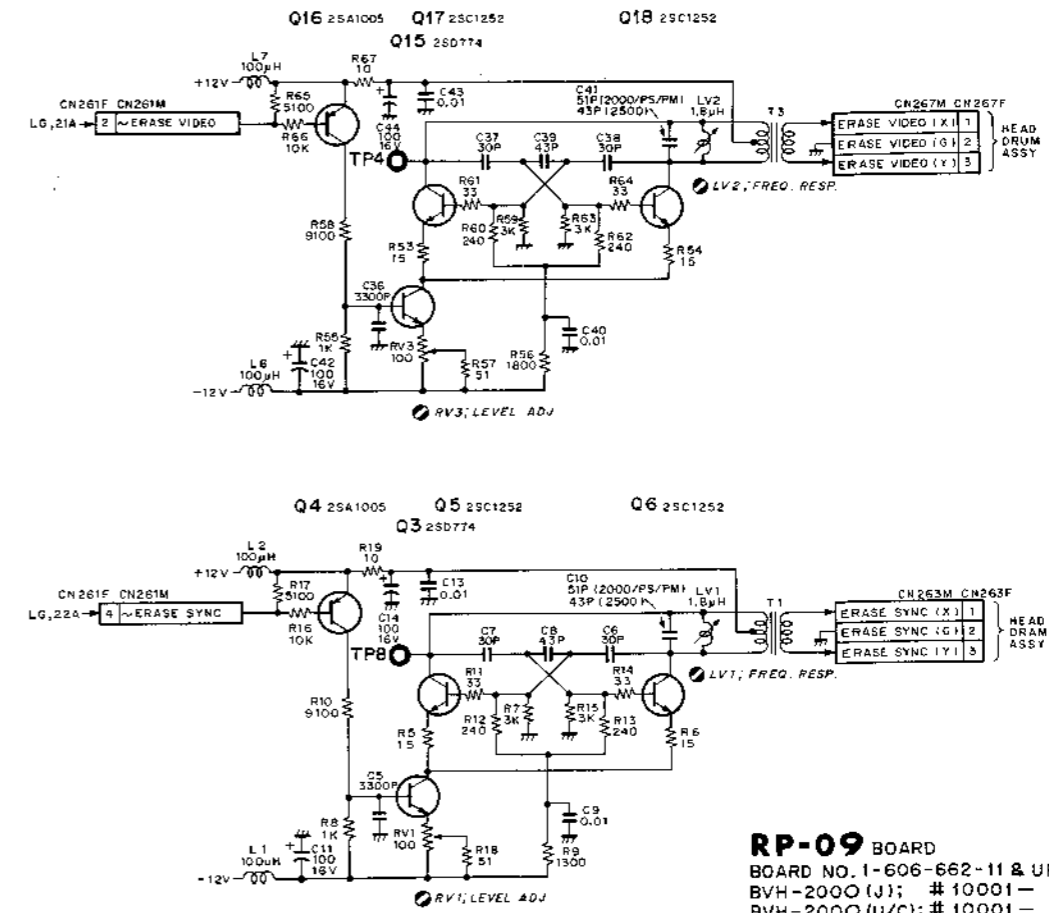
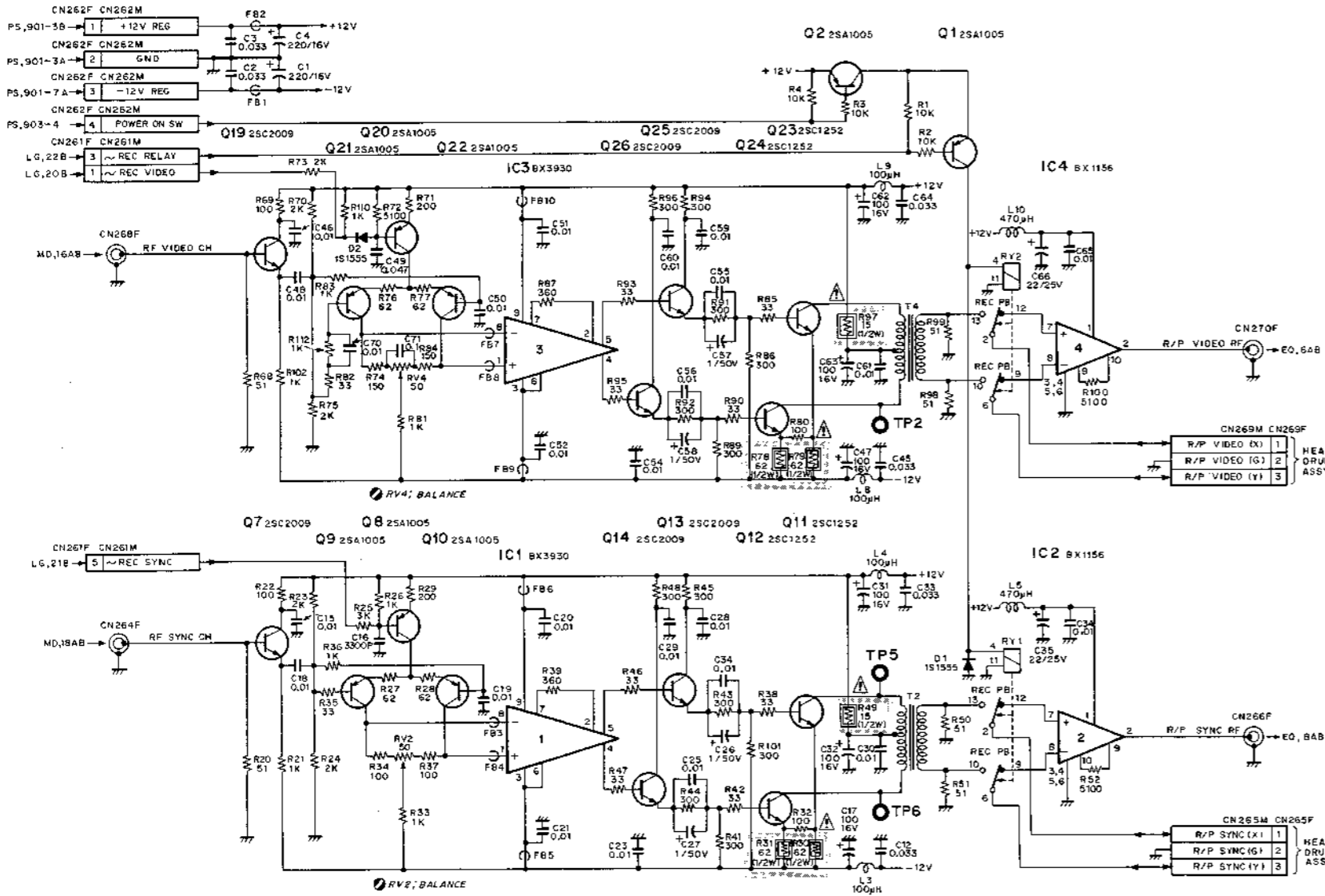
RP-09 (1-606-662-12 & UPI)

BVH-2000(J,U/C)
BVH-2000PS
BVH-2000PM
BVH-2500(J,U/C)

- | | | |
|--------|-----|----|
| CN261M | RV1 | 1B |
| 1A | RV2 | 2B |
| CN262M | RV3 | 1C |
| 3A | RV4 | 2D |
| CN263M | RV1 | 4A |
| 1B | RV2 | 4D |
| CN264M | TP2 | 3D |
| 2A | TP3 | 4C |
| CN265M | TP4 | 1C |
| 4B | TP5 | 3B |
| CN266M | TP6 | 4A |
| 4B | TP7 | 4B |
| CN267M | TP8 | 1B |
| 1C | | |
| CN268M | | |
| 2D | | |
| CN269M | | |
| 4C | | |
| CN270M | | |
| 4C | | |
| D1 | 2A | |
| D2 | 2C | |
| IC1 | 2B | |
| IC2 | 4B | |
| IC3 | 2C | |
| IC4 | 4C | |
| LV1 | 1B | |
| LV2 | 1D | |
| Q1 | 3A | |
| Q2 | 3A | |
| Q3 | 1B | |
| Q4 | 1B | |
| Q5 | 1A | |
| Q6 | 1A | |
| Q7 | 2B | |
| Q8 | 2B | |
| Q9 | 2B | |
| Q10 | 2B | |
| Q11 | 3A | |
| Q12 | 3A | |
| Q13 | 3B | |
| Q14 | 3B | |
| Q15 | 1D | |
| Q16 | 1D | |
| Q17 | 1D | |
| Q18 | 1D | |
| Q19 | 2D | |
| Q20 | 2C | |
| Q21 | 2C | |
| Q22 | 2C | |
| Q23 | 3D | |
| Q24 | 3D | |
| Q25 | 3C | |
| Q26 | 3C | |

RP-09 BOARD

Video/Sync R/P Amplifier (For R/P Head)



RP-09 BOARD
 BOARD NO. 1-606-662-11 & UP
 BVH-2000 (J); # 10001 -
 BVH-2000 (U/C); # 10001 -
 BVH-2000 (PS); # 10001 -
 BVH-2000 (PM); # 10001 -
 BVH-2500 (J); # 10001 -
 BVH-2500 (U/C); # 10001 -

BVH-2000/PS/PM C-139

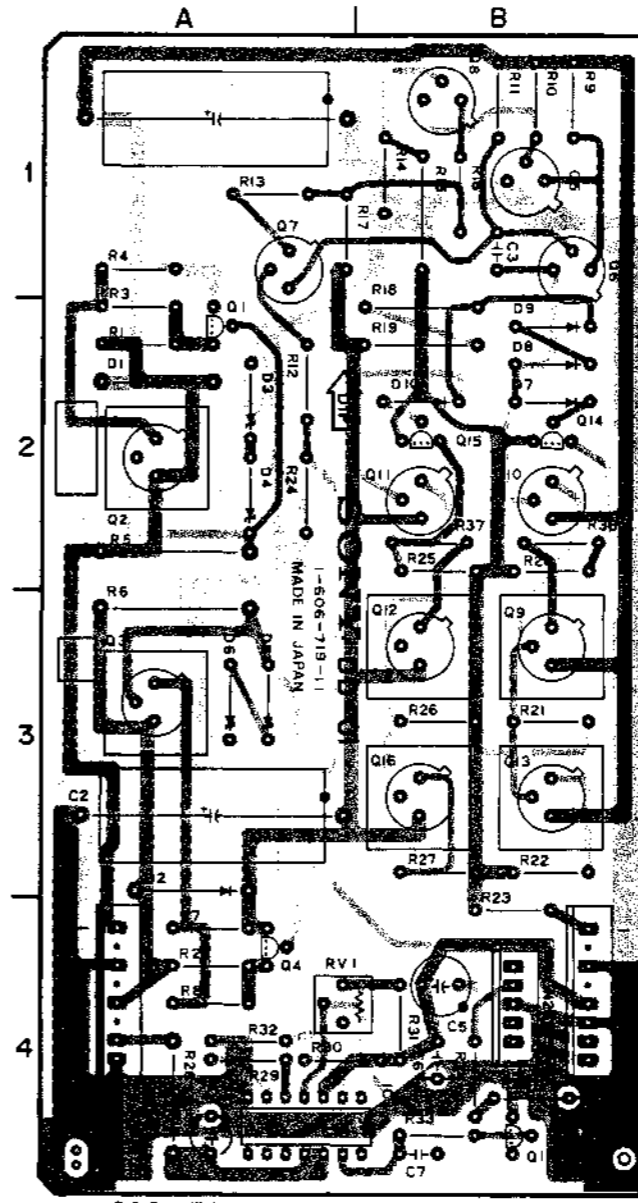
C-176

C-175

BVH-2500



DD-01 BOARD (1-606-719-11) ; FOR 02/04 MODEL
Component Side

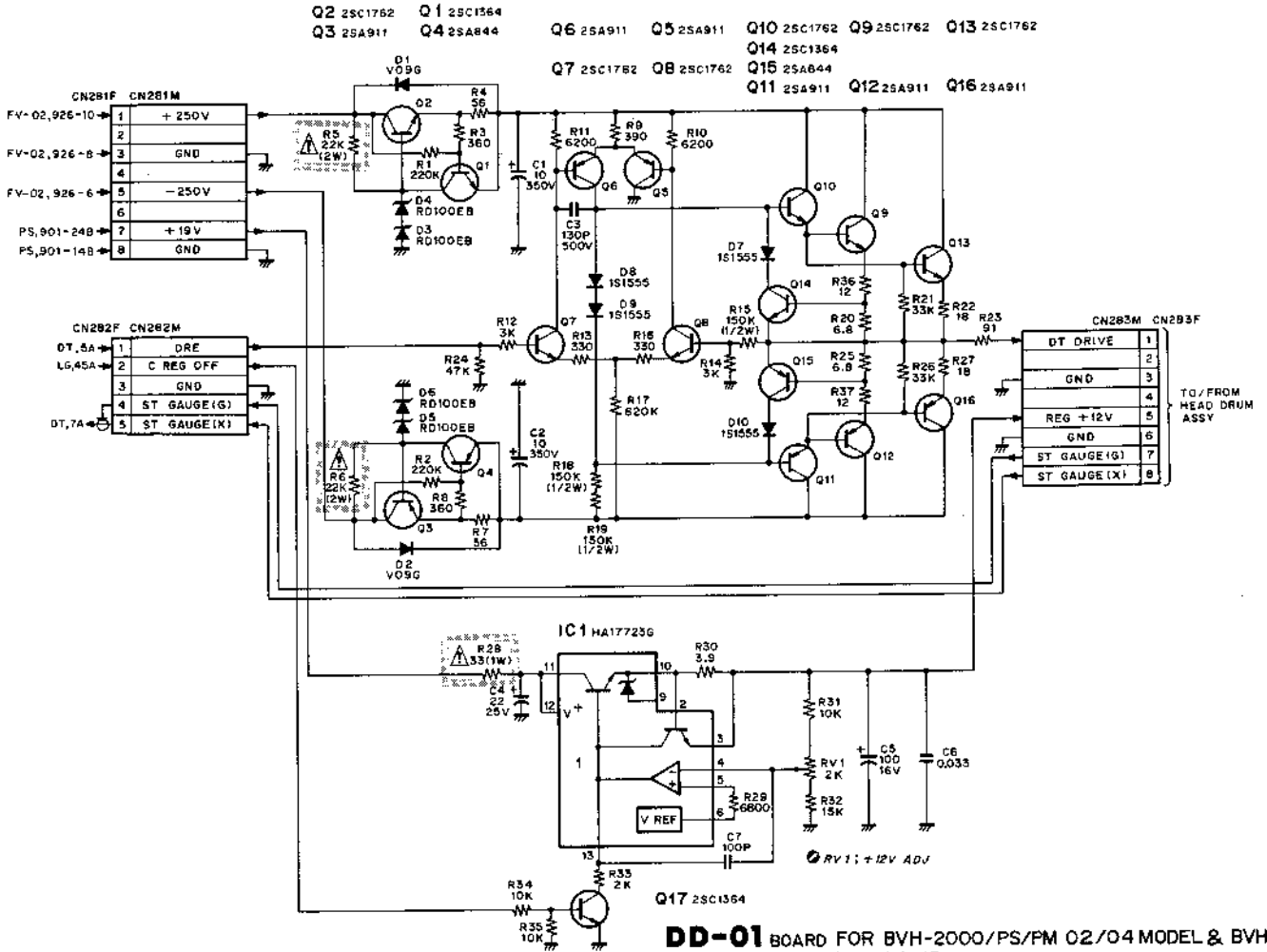


1-606-719-11 COMPONENT SIDE N-817-303-1

DD-01 (1-606-719-11 & UP)

- BVH-2000(J,U/C)
(02 MODEL)
- BVH-2000PS
(02/04 MODEL)
- BVH-2000PM
BVH-2500(J,U/C)
- CN28 1M
- 4A
- CN28 2M
- 4B
- CN28 3M
- 4B
- D1 2A
- D2 3A
- D3 2A
- D4 2A
- D5 3A
- D6 3A
- D7 2B
- D8 2B
- D9 2B
- D10 2B
- IC1 4A
- Q1 2A
- Q2 2A
- Q3 3A
- Q4 4A
- Q5 1B
- Q6 1B
- Q7 1A
- Q8 1B
- Q9 3B
- Q10 2B
- Q11 2B
- Q12 3B
- Q13 3B
- Q14 2B
- Q15 2B
- Q16 3B
- Q17 4B
- RV1 4A

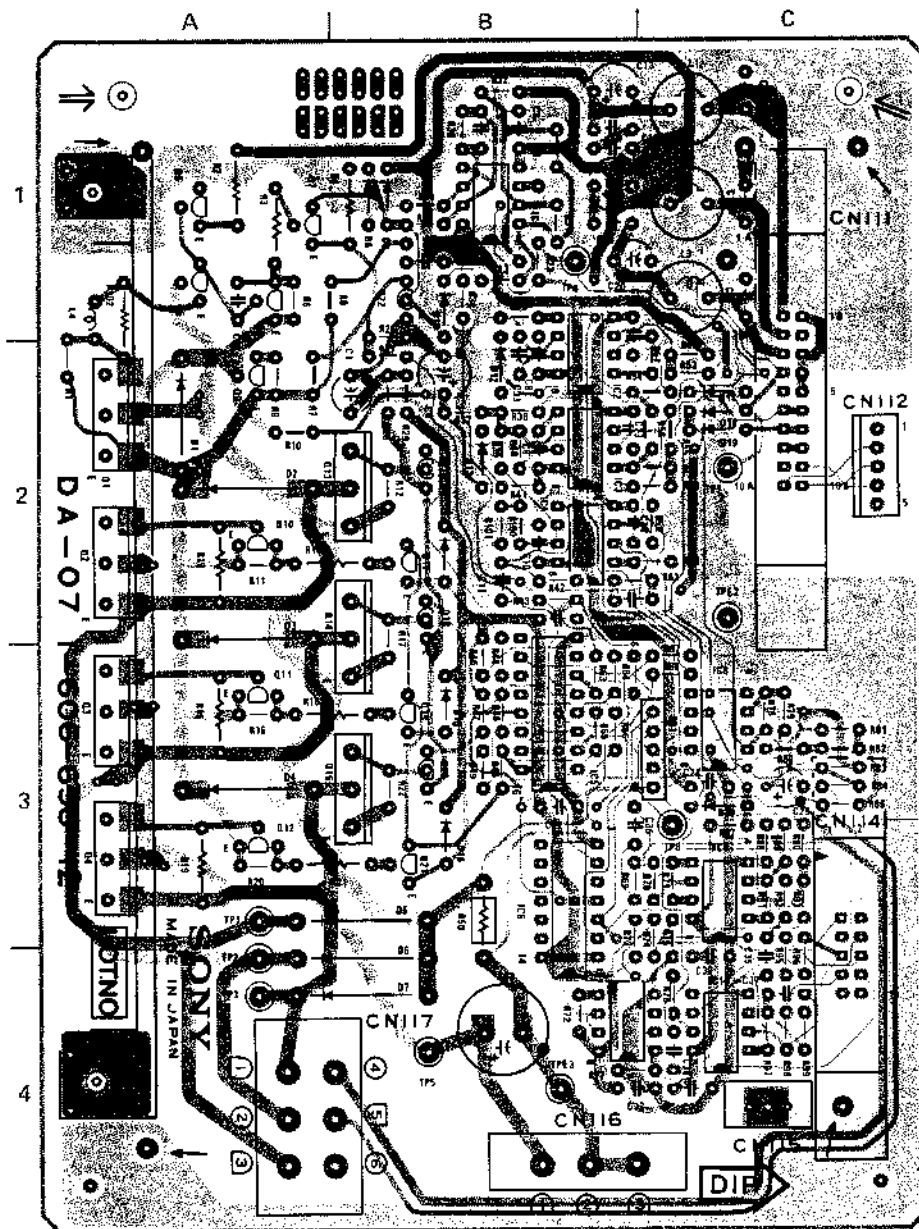
DD-01 BOARD; FOR 02/04 MODEL
DT Driver



DD-01 BOARD FOR BVH-2000/PS/PM 02/04 MODEL & BVH-2500
BOARD NO. 1-606-719-11 & UP
BVH-2000(J); #10001- BVH-2500(J); #10001-
BVH-2000(U/C); #10001- BVH-2500(U/C); #10001-
BVH-2000PS; #10001-
BVH-2000PM; #10001-

DA-07 BOARD (1-606-696-12)

Component Side



■ 1-606-696-12
COMPONENT SIDE

■ 1-606-696-12
SOLDER SIDE

DA-07 (1-606-696-12 & UP)

BVH-2000 (J, D/C)
BVR-2000PS
BVR-2000PM
BVR-2500 (J, D/C)

CN111M	TP4	1B
	TP5	4B
CN112M	TP6	3C
	TP7	2C
CN114M		
CN115M	TP2	2C
	TP3	4B
CN116M		
CN117M		

D1	2A
D2	2A
D3	3A
D4	3A
D5	3B
D6	4B
D7	4B
D8	1B
D9	1B
D10	1B
D12	2B
D13	2B
D14	2B
D15	3B
D16	3B
D17	2C
D18	2C
D19	2C
D20	3C

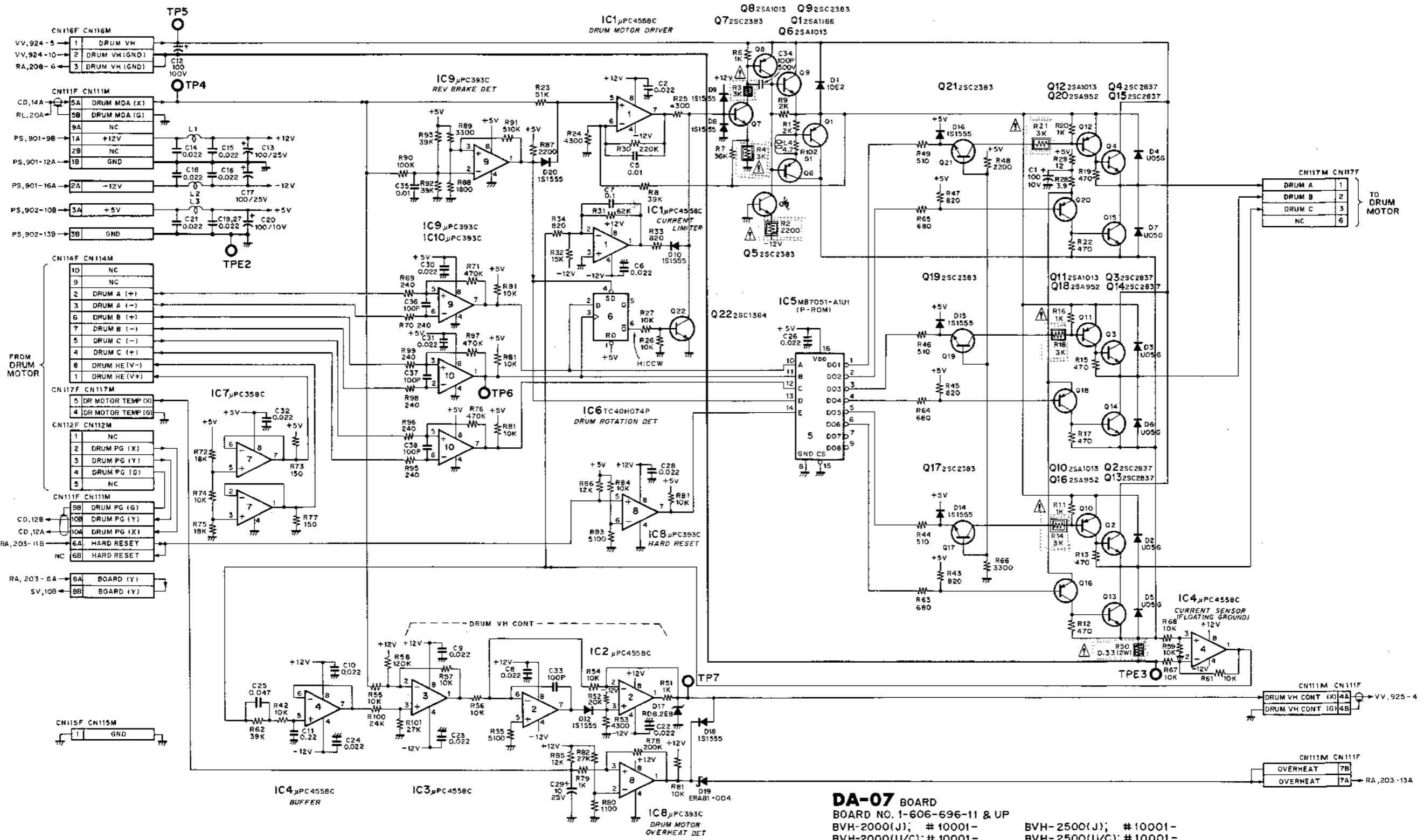
IC1	1B
IC2	2B
IC3	2B
IC4	2B
IC5	3B
IC6	3B
IC7	4B
IC8	3C
IC9	3C
IC10	4C

Q1	2A
Q2	2A
Q3	3A
Q4	3A
Q5	1A
Q6	1A
Q7	1A
Q8	1A
Q9	2A
Q10	2A
Q11	1A
Q12	3A
Q13	2B
Q14	3B
Q15	3B
Q16	2B
Q17	2B
Q18	2B
Q19	3B
Q20	3B
Q21	3B
Q22	1B

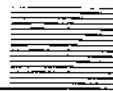
RB1	3C
-----	----

DA-07 BOARD
Drum Motor Driver

BVH-2000/PS/PM C-145 C-146
C-182 C-181
BVH-2500

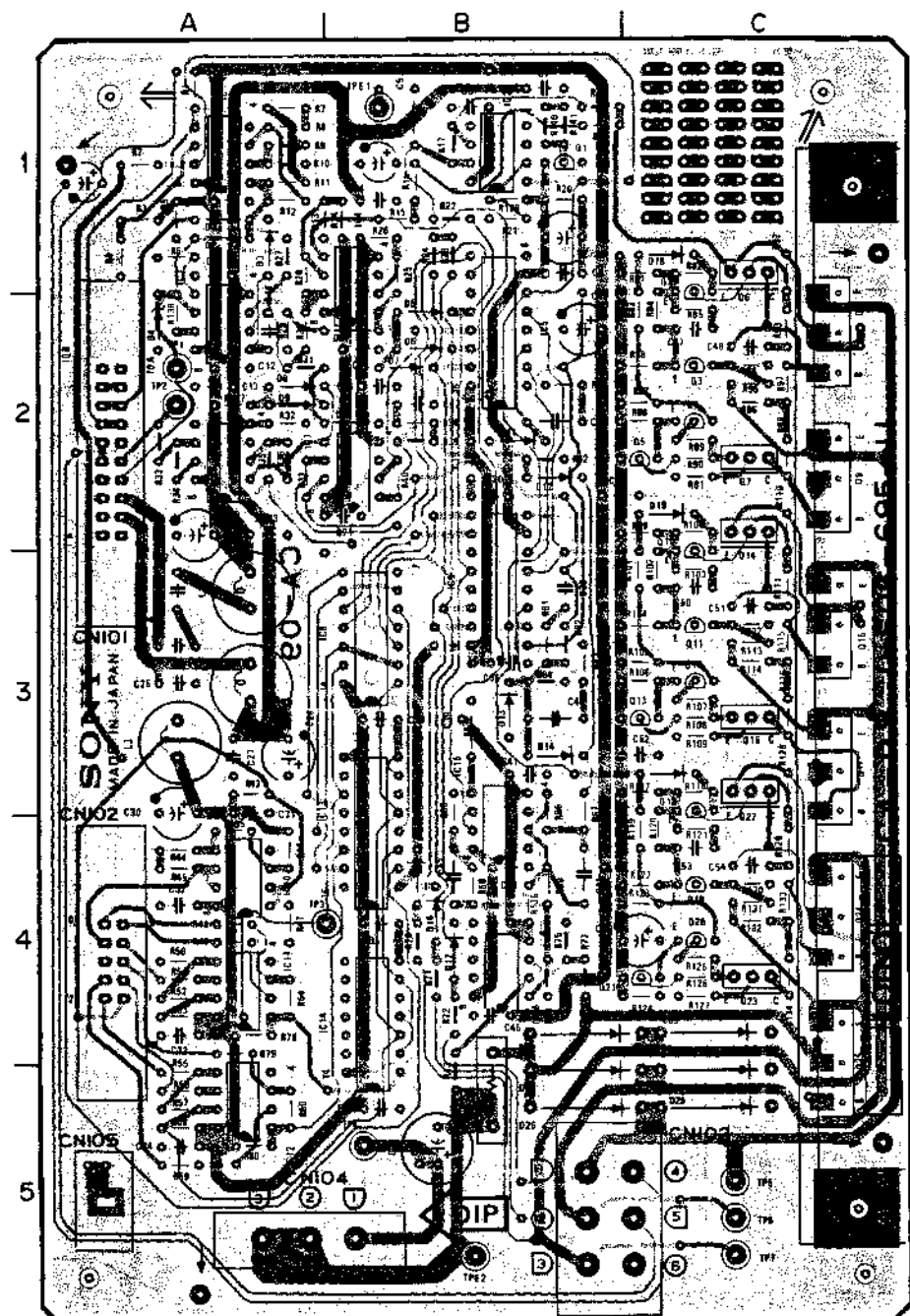


DA-07 BOARD
 BOARD NO. 1-606-696-11 & UP
 BVH-2000(J); # 10001-
 BVH-2000(U/C); # 10001-
 BVH-2000PS; # 10001-
 BVH-2000PM; # 10001-
 BVH-2500(J); # 10001-
 BVH-2500(U/C); # 10001-



CA-09 BOARD (1-606-695-11)

Component Side



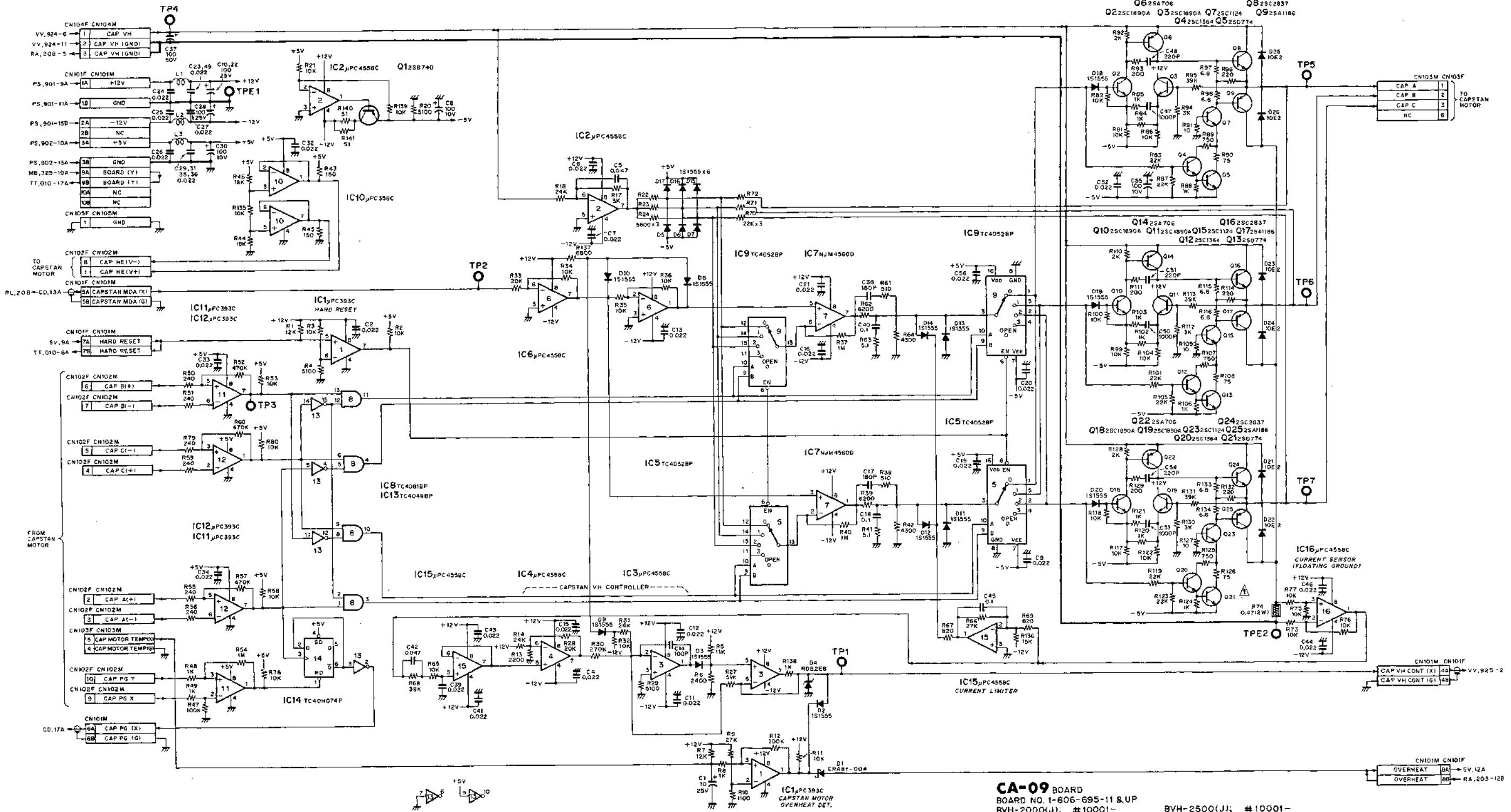
1-606-695-11 COMPONENT SIDE 11-200-000-1

CA-09 (1-606-695-11 & UP)

- BVH-2000(J,U/C) TP1 2A
- BVH-2000PS TP2 2A
- BVH-2000PM TP3 4A
- BVH-2500(J,U/C) TP4 5B
- TP5 5C
- TP6 5C
- TP7 5C
- CN101M 2A
- CN102M 4A
- CN103M 5B
- CN104M 5A
- CN105M 5A
- D1 1A
- D2 1A
- D3 1A
- D4 2A
- D5 2B
- D6 2B
- D7 2B
- D8 2A
- D9 2A
- D10 2B
- D11 2B
- D12 2B
- D13 3B
- D14 3B
- D15 4B
- D16 4B
- D17 4B
- D18 1C
- D19 2C
- D20 3C
- D21 4C
- D22 4B
- D23 5C
- D24 5B
- D25 5C
- D26 5B
- IC1 1A
- IC2 1B
- IC3 2A
- IC4 1B
- IC5 2B
- IC6 2A
- IC7 2A
- IC8 3B
- IC9 3B
- IC10 4A
- IC11 4A
- IC12 5A
- IC13 3B
- IC14 4B
- IC15 3B
- IC16 4B
- Q1 1B
- Q2 2C
- Q3 2C
- Q4 2C
- Q5 2C
- Q6 2C
- Q7 2C
- Q8 2C
- Q9 2C
- Q10 3C
- Q11 3C
- Q12 3C
- Q13 3C
- Q14 2C
- Q15 3C
- Q16 3C
- Q17 3C
- Q18 3C
- Q19 4C
- Q20 4C
- Q21 4C
- Q22 3C
- Q23 4C
- Q24 4C
- Q25 4C

CA-09 BOARD

Capstan Motor Driver



CA-09 BOARD
 BOARD NO. 1-606-695-11 & UP
 BVH-2000(J); #10001-
 BVH-2000(U/C); #10001-
 BVH-2000(PS); #10001-
 BVH-2000(PM); #10001-
 BVH-2500(J); #10001-
 BVH-2500(U/C); #10001-

BVH-2000/PS/PM C-149

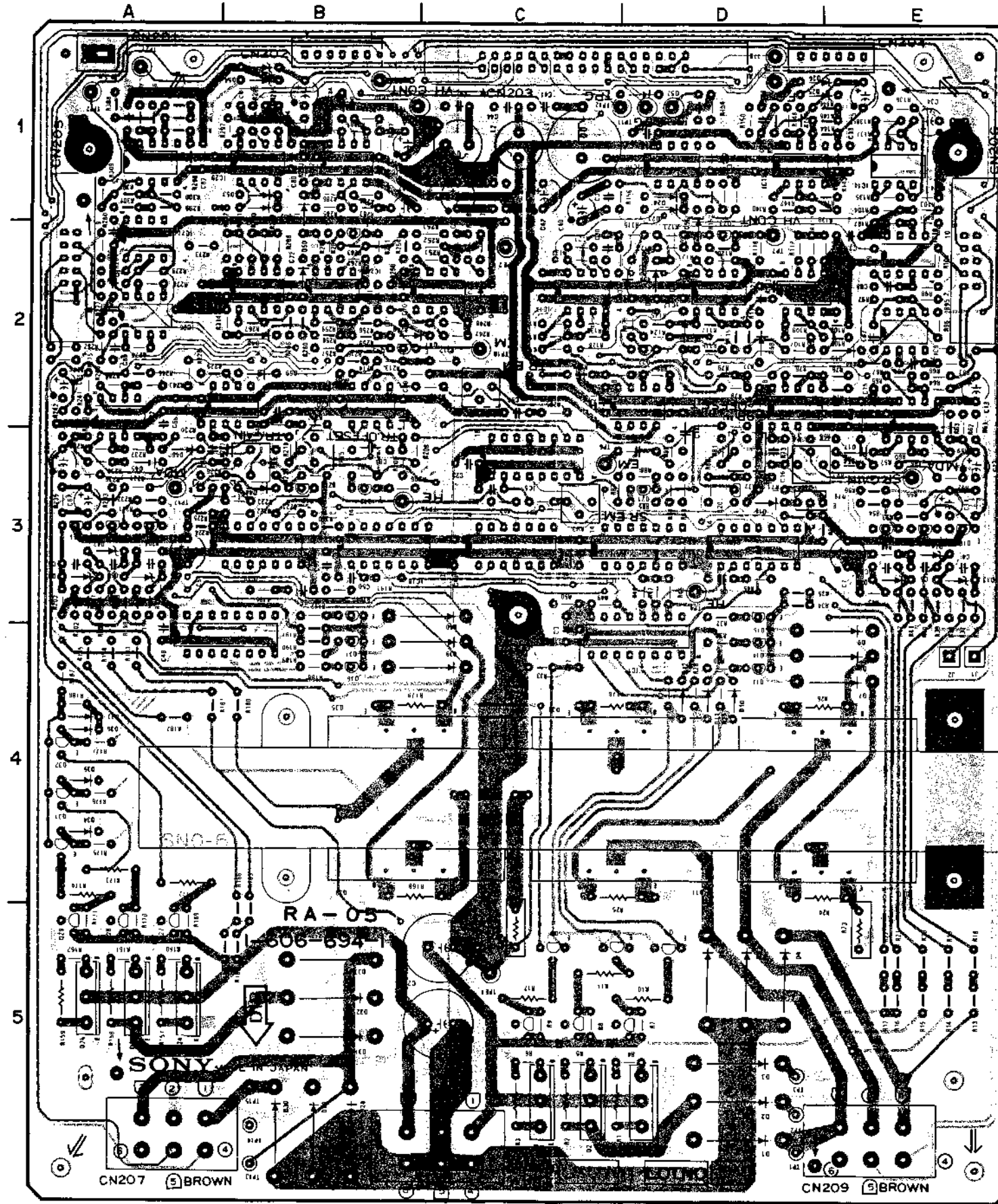
C-186

C-185

BVH-2500

RA-05 BOARD (1-606-694-11)

Component Side



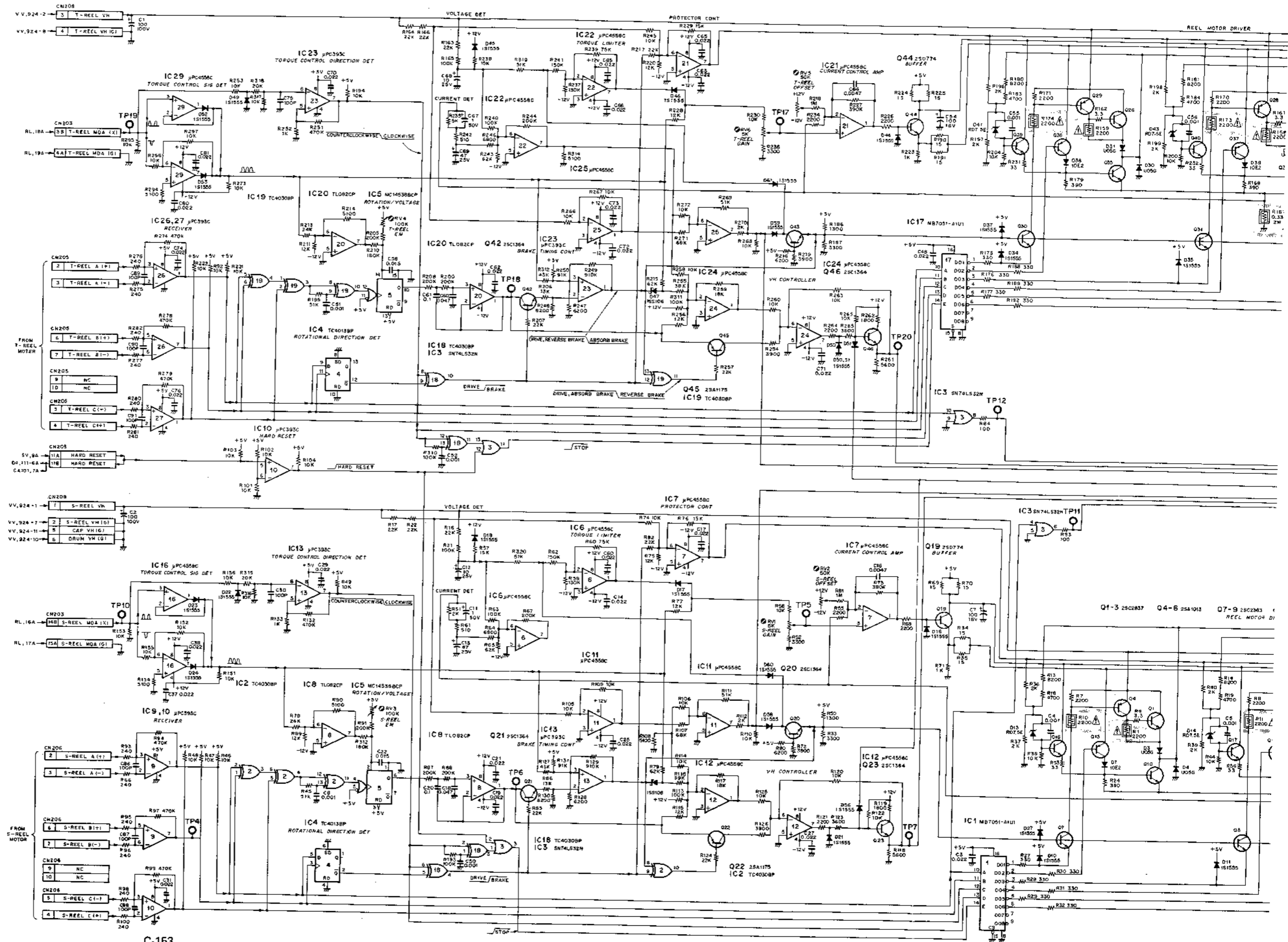
1-606-694-11 COMPONENT SIDE

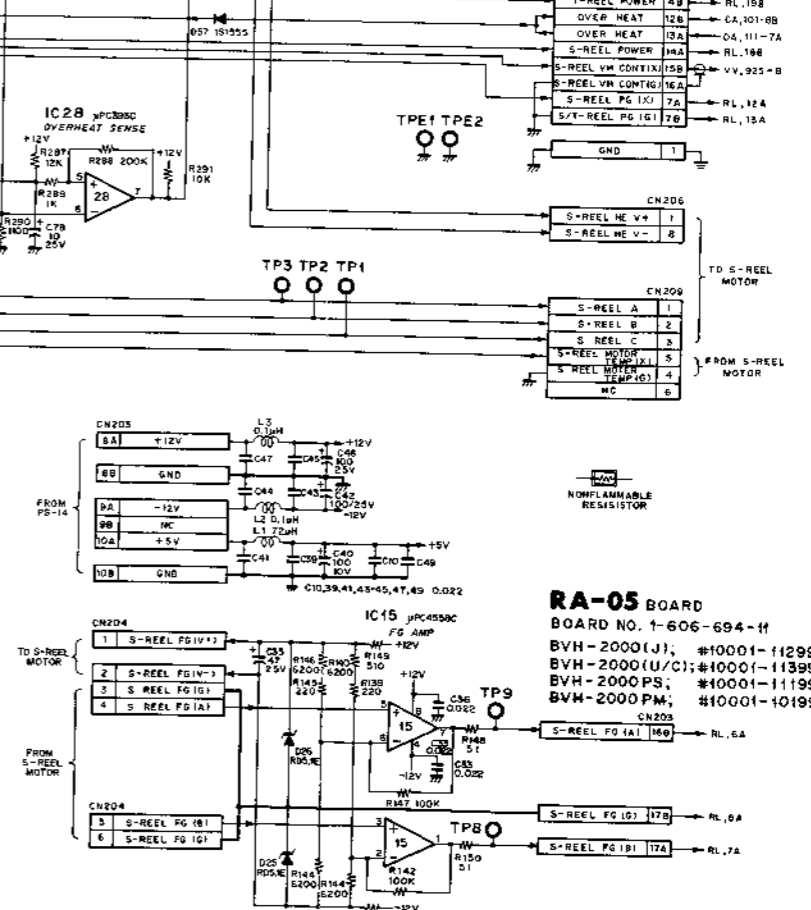
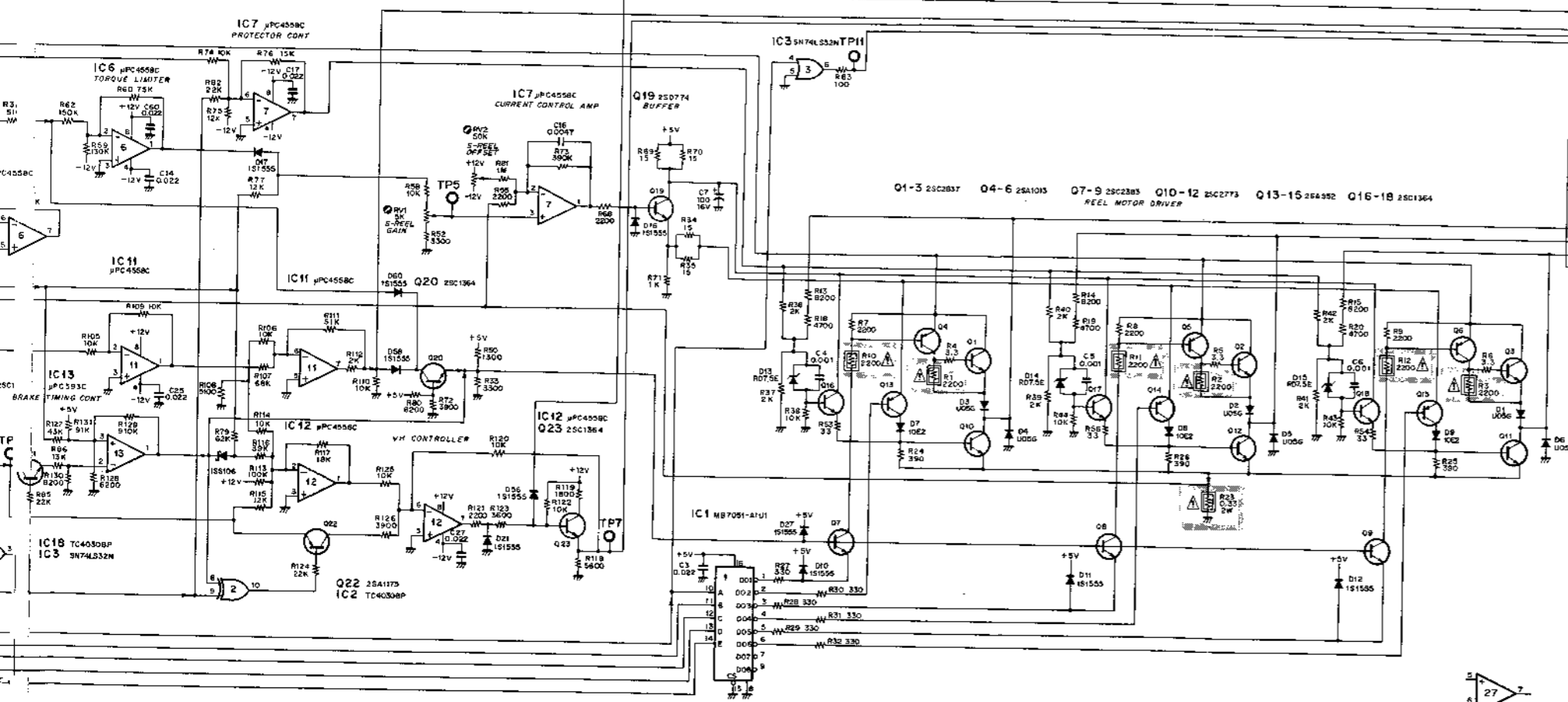
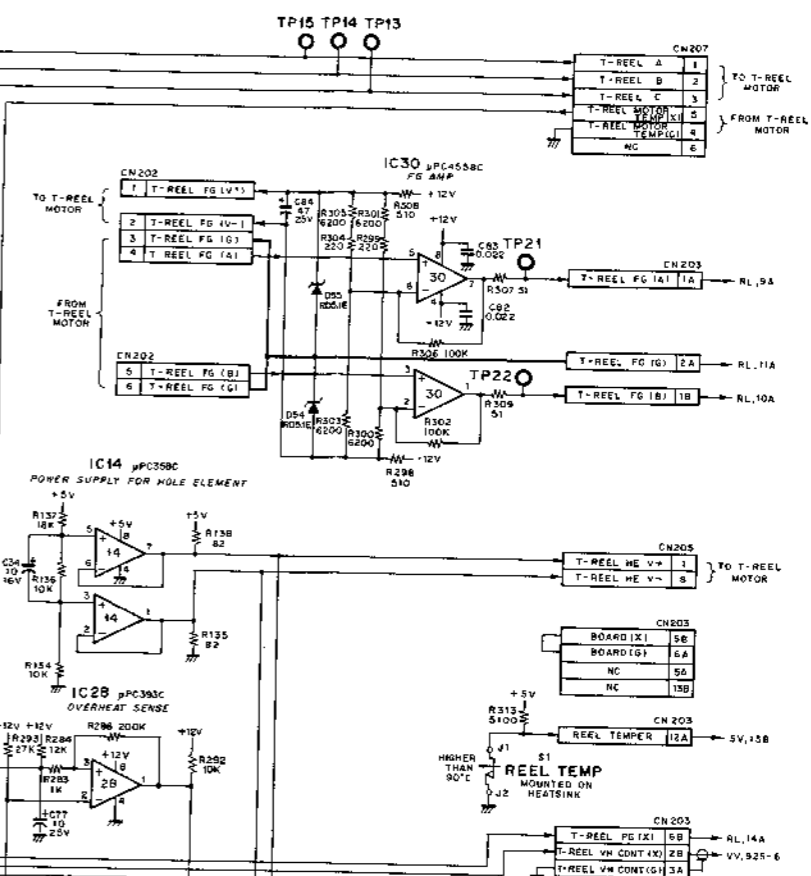
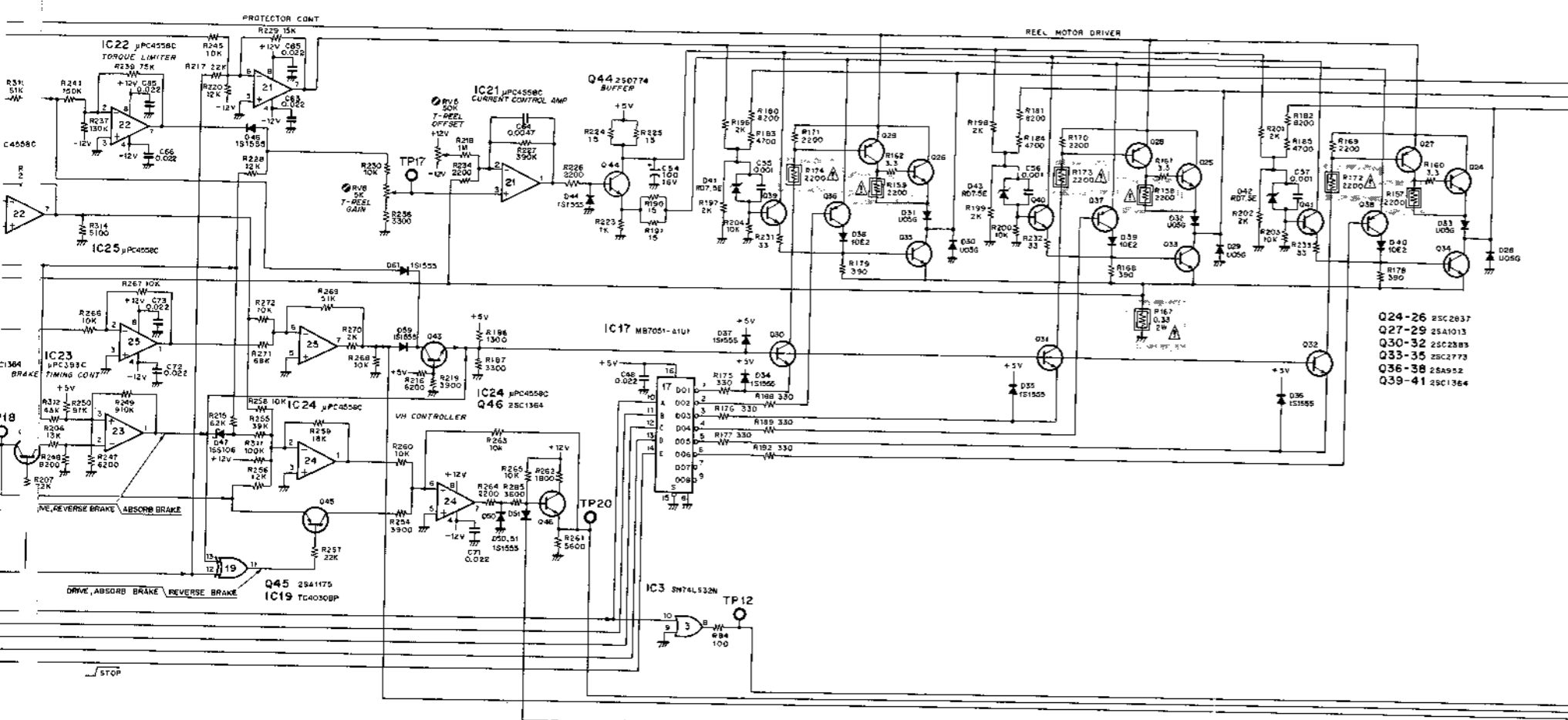
1-606-694-11

RA-05 (1-606-694-11)

BVH-2000(J,U/C)	01	5D
BVH-2000PS	02	5C
BVH-2000PM	03	5C
	04	5D
CN201M	05	5C
	06	5C
CN202M	07	5D
	08	5C
CN203M	09	5C
	10	4E
CN204M	11	4D
	12	4E
CN205M	13	4D
	14	4D
CN206M	15	3D
	16	3E
CN207M	17	3E
	18	3E
CN208M	19	3D
	20	3D
CN209M	21	3D
	22	2D
	23	2D
	24	5A
D1	5D	5A
D2	5D	5A
D3	5D	5A
D4	5D	5A
D5	5D	5A
D6	5D	5A
D7	4E	4A
D8	4E	4A
D9	4E	4A
D10	4D	4B
D11	4D	4B
D12	4D	4B
D13	3E	4B
D14	3E	4B
D15	3E	3B
D16	3D	3A
D17	3E	3A
D18	2E	3A
D20	2D	3B
D21	2D	3B
D22	2D	3A
D23	1D	2B
D24	1D	2B
D25	1D	2B
D26	1D	2B
D27	4C	RV1 3D
D28	5B	RV2 3D
D29	5B	RV3 3C
D30	5B	RV4 2C
D31	5B	RV5 3B
D32	5B	RV6 3B
D33	5B	
D34	4A	TP1 5D
D35	4A	TP2 5D
D36	4A	TP3 5D
D37	4A	TP4 3D
D38	4C	TP5 3E
D39	4C	TP6 3C
D40	3C	TP7 2D
D41	3A	TP8 1D
D42	3A	TP9 1D
D43	3A	TP10 1D
D44	3B	TP11 1D
D45	3A	TP12 1D
D46	3A	TP13 5B
D47	2B	TP14 5B
D48	2C	TP15 5B
D49	2C	TP16 3B
D50	2B	TP17 3A
D51	1B	TP18 2C
D52	1B	TP19 1B
D53	1B	TP20 1B
D54	1B	TP21 1A
D55	1B	TP22 1A
D56	1D	
D57	1D	TPE1 5C
D58	2D	TPE2 2C
D59	2B	
IC1	4D	
IC2	5D	
IC3	3D	
IC4	3C	
IC5	3C	
IC6	2E	
IC7	2D	
IC8	2D	
IC9	2E	
IC10	2E	
IC11	2D	
IC12	2D	
IC13	2C	
IC14	1E	
IC15	1D	
IC16	1D	
IC17	4B	
IC18	3B	
IC19	3B	
IC20	2B	
IC21	2B	
IC22	2A	
IC23	2C	
IC24	2B	
IC25	2B	
IC26	2A	
IC27	2A	
IC28	1B	
IC29	1B	
IC30	1A	

RA-05 BOARD
Reel Motor Driver



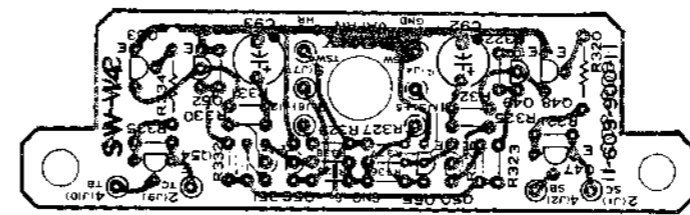


C-154

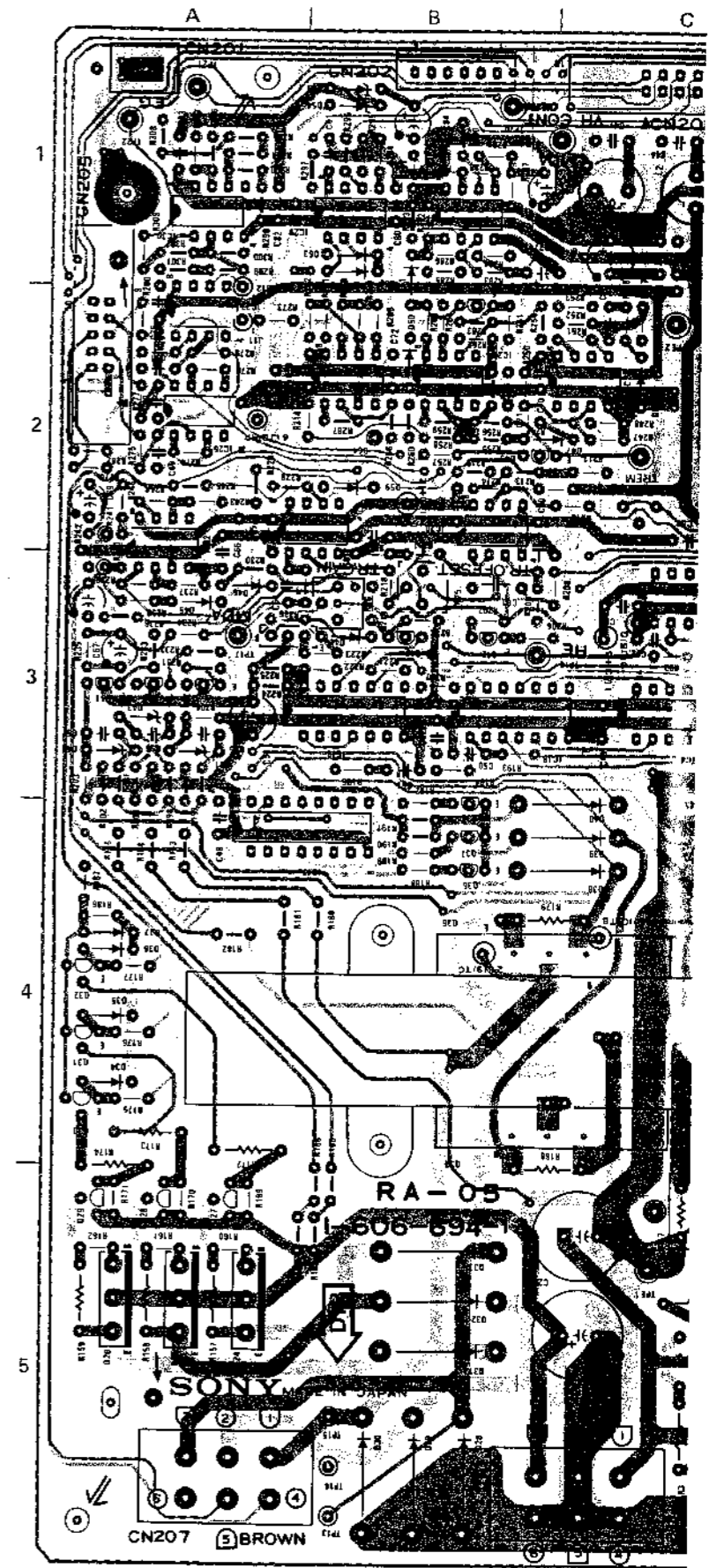
C-155

RA-05 BOARD (1-606-694-13, 14)
Component Side

SW-14 BOARD (1-609-900-11)
Component Side

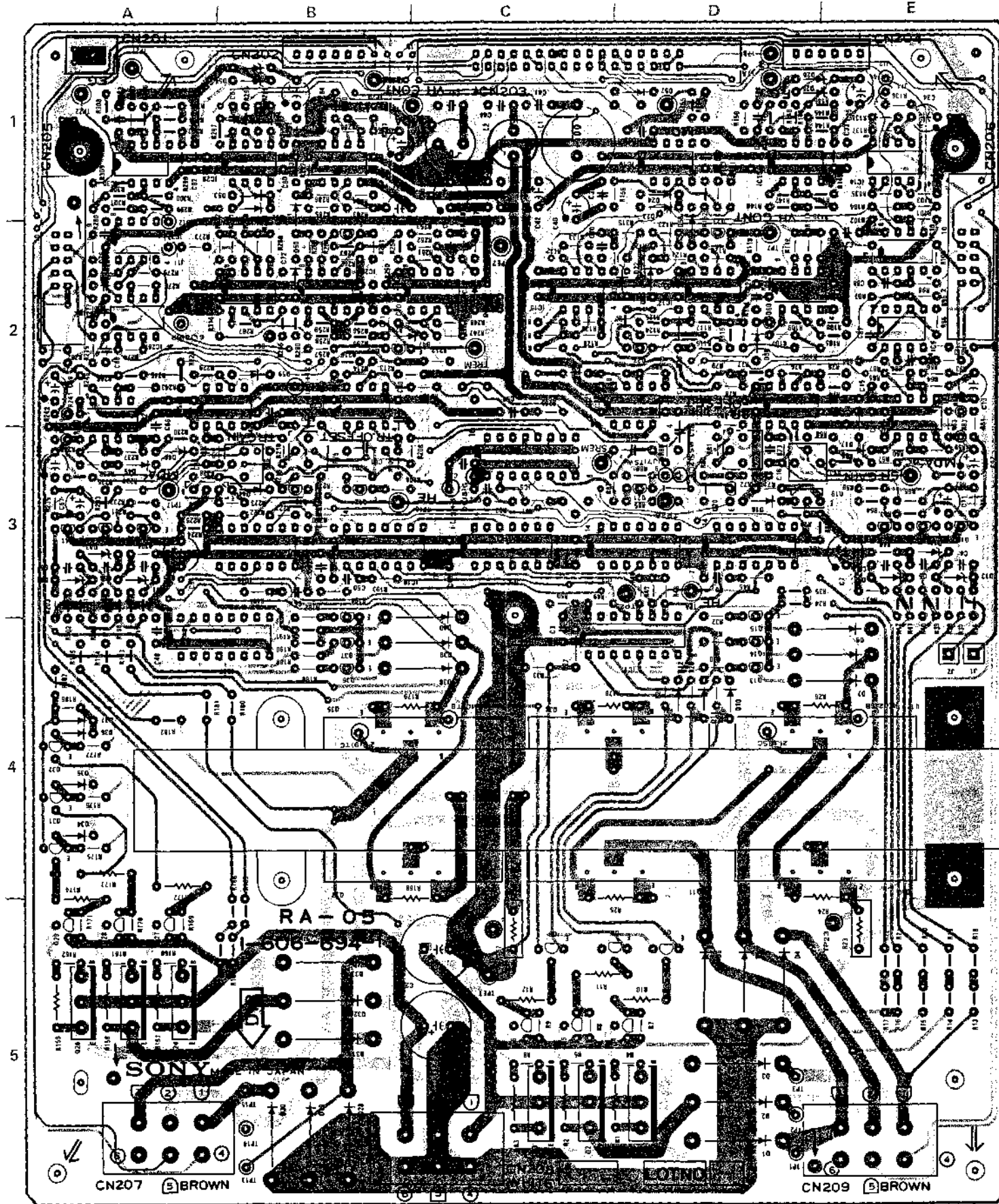


1-609-900-11



1-606-694-13 COMPONENT SIDE

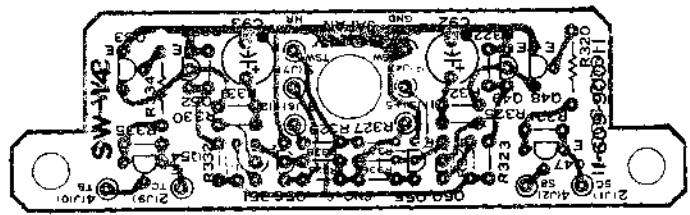
RA-05 BOARD (1-606-694-13, 14)
Component Side



RA-05 (1-606-694-13 & UPT)

BVR-2000 (J, U/C)	Q1	5D
BVR-2000PS	Q2	5C
BVR-2000PW	Q3	5C
BVR-2500 (J, U/C)	Q4	5D
CN201M	Q5	5C
CN202M	Q6	5C
CN203K	Q7	5D
CN204M	Q8	5C
CN205M	Q9	5C
CN206M	Q10	4E
CN207M	Q11	4D
CN208M	Q12	4E
CN209M	Q13	4D
	Q14	4D
	Q15	3D
	Q16	3E
	Q17	3E
	Q18	3E
	Q19	3D
	Q20	3D
D1	Q21	3D
D2	Q22	2D
D3	Q23	2D
D4	Q24	5A
D5	Q25	5A
D6	Q26	5A
D7	Q27	5A
D8	Q28	5A
D9	Q29	5A
D10	Q30	4A
D11	Q31	4A
D12	Q32	4A
D13	Q33	4B
D14	Q34	4D
D15	Q35	4B
D16	Q36	4B
D17	Q37	4B
D18	Q38	3B
D19	Q39	3A
D20	Q40	3A
D21	Q41	3A
D22	Q42	3B
D23	Q43	3B
D24	Q44	3A
D25	Q45	2B
D26	Q46	2B
D27		
D28		
D29		
D30		
D31		
D32		
D33		
D34		
D35		
D36		
D37		
D38		
D39		
D40		
D41		
D42		
D43		
D44		
D45		
D46		
D47		
D48		
D49		
D50		
D51		
D52		
D53		
D54		
D55		
D56		
D57		
D58		
D59		
D60		
D61		
IC1		
IC2		
IC3		
IC4		
IC5		
IC6		
IC7		
IC8		
IC9		
IC10		
IC11		
IC12		
IC13		
IC14		
IC15		
IC16		
IC17		
IC18		
IC19		
IC20		
IC21		
IC22		
IC23		
IC24		
IC25		
IC26		
IC27		
IC28		
IC29		
IC30		
	RV1	3D
	RV2	3D
	RV5	3B
	RV6	3B
	TP1	5D
	TP2	5D
	TP3	5D
	TP4	3D
	TP5	3E
	TP7	2D
	TP8	1D
	TP9	1D
	TP10	1D
	TP13	5B
	TP14	5B
	TP15	5B
	TP16	3B
	TP17	3A
	TP19	1B
	TP20	1B
	TP21	1A
	TP22	1A
	TP23	5E
	TP24	5C
	TP25	3D
	TP26	3D
	TPE1	5C
	TPE2	2C

SW-14 BOARD (1-609-900-11)
Component Side

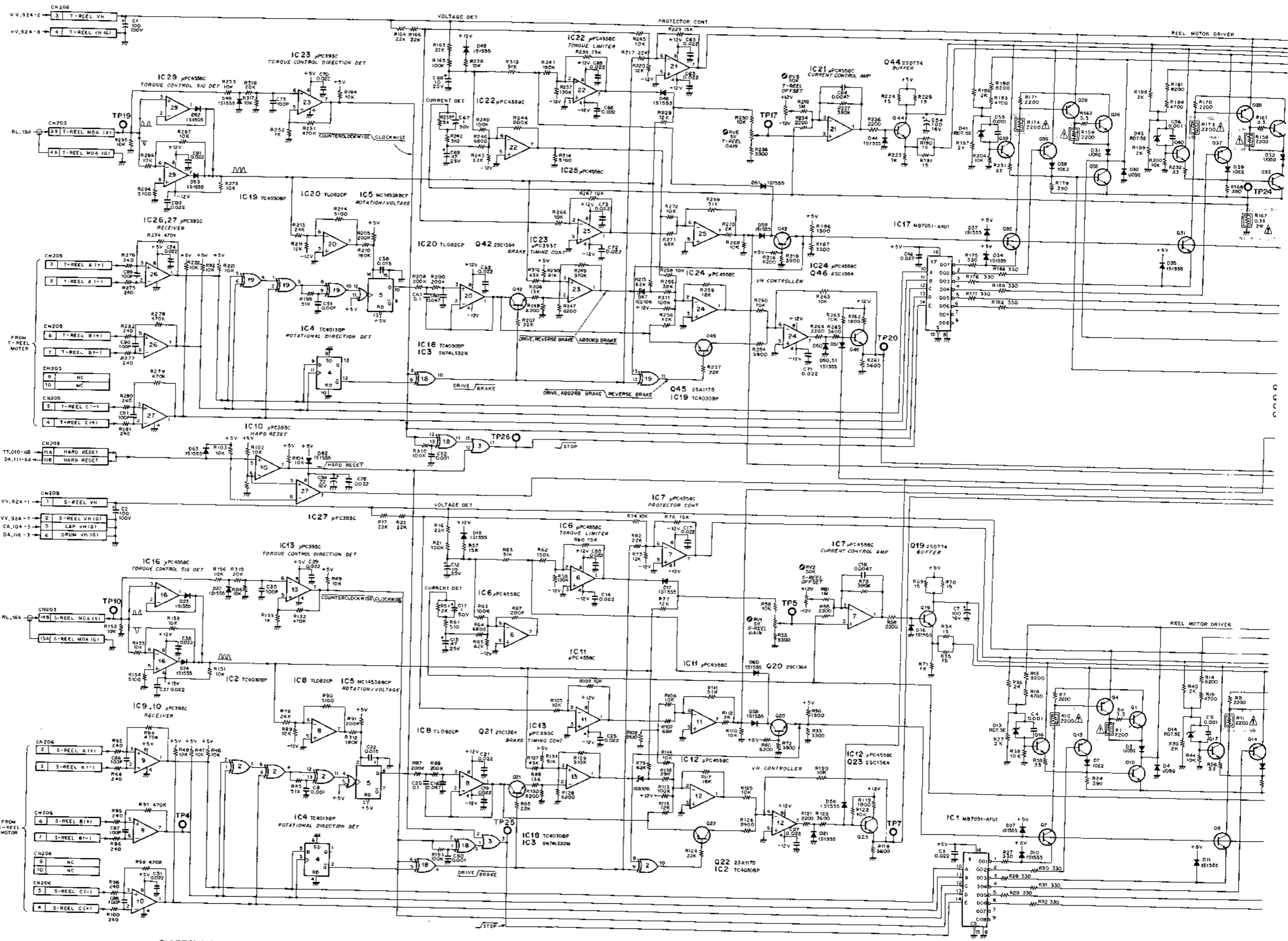


1-609-900-11

1-606-694-13 COMPONENT SIDE

1-606-694-13
C-155(4/7)

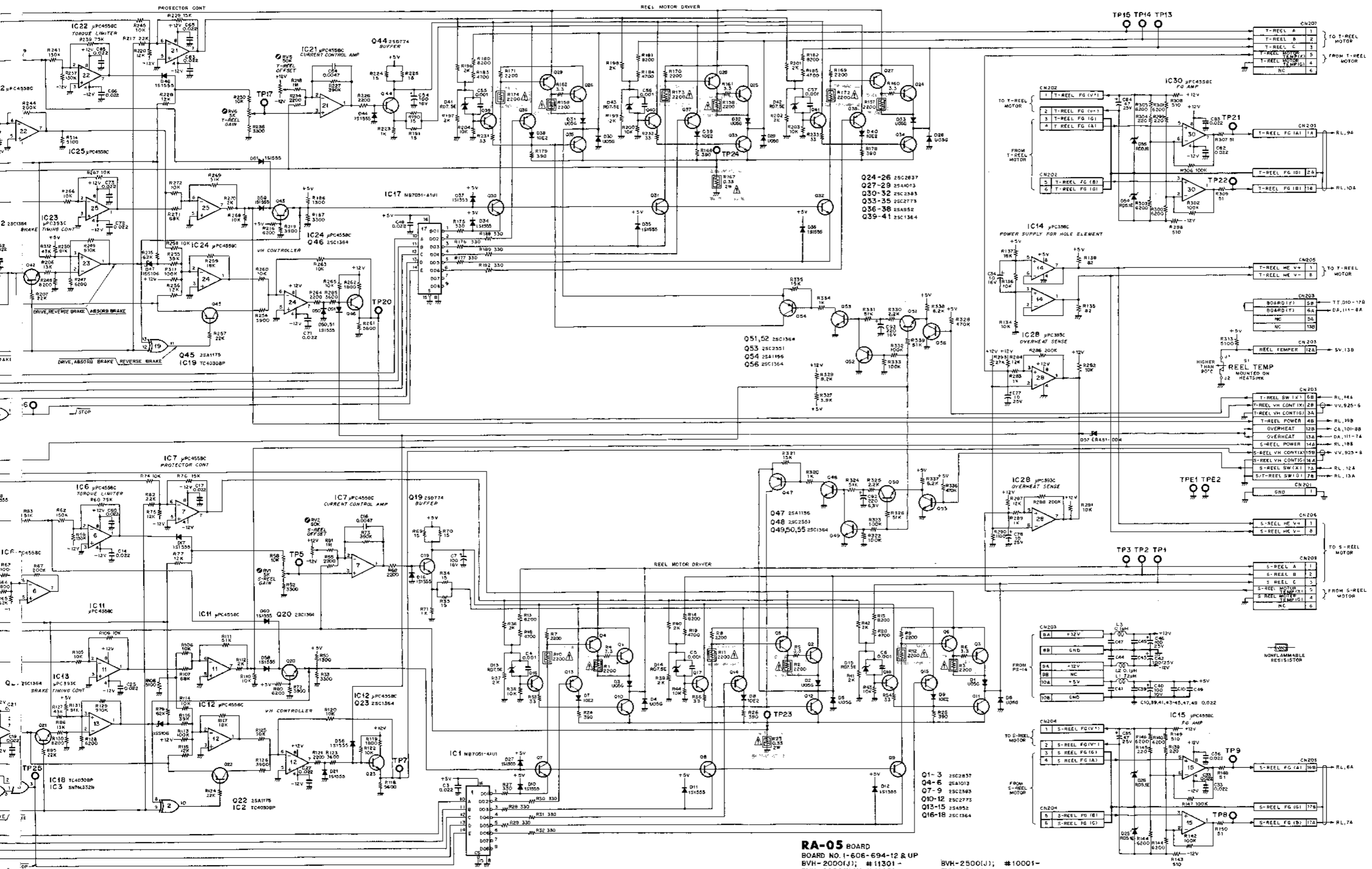
RA-05 BOARD
Reel Motor Driver



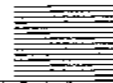
C-155(5/7)

C-155(6/7)

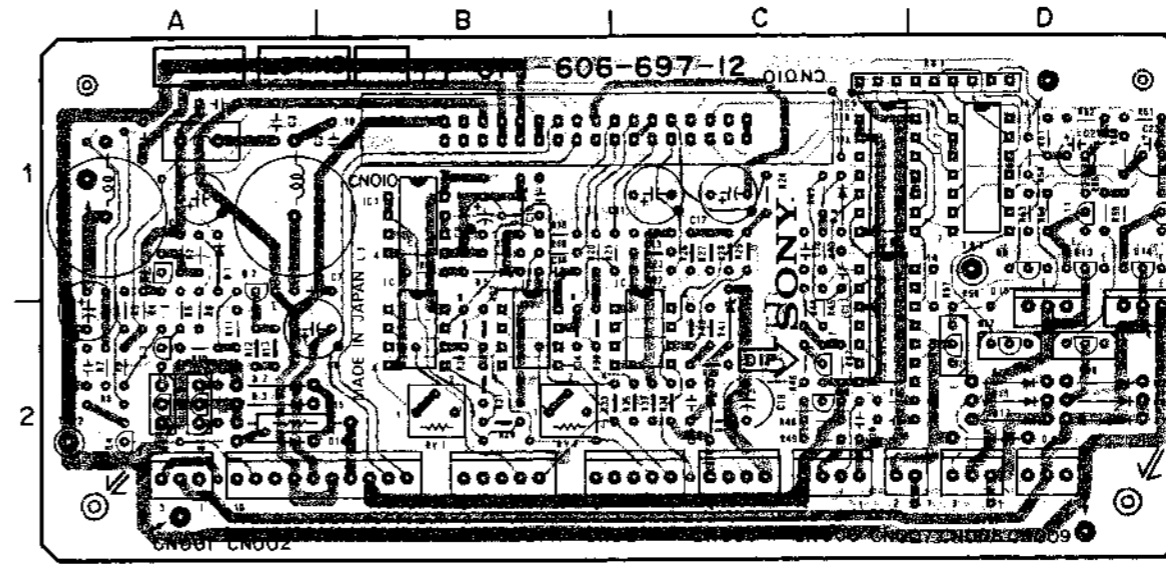
C-155(7/7)
 C-155(6/7)
 C-155(5/7)
 BVH-2000/PS/PM
 C-191
 C-190
 C-189
 BVH-2500



RA-05 BOARD
 BOARD NO. 1-606-694-12 & UP
 BVH-2000(J); #11301-
 BVH-2000(U/C); #11401-
 BVH-2000(P/S); #11201-
 BVH-2000(P/M); #10201-
 BVH-2500(J); #10001-
 BVH-2500(U/C); #10001-



TT-01 BOARD (1-606-697-12)
Component Side



1-606-697-12 COMPONENT SIDE

1-606-697-12

RB1



TT-01 (1-606-697-12 & UP)

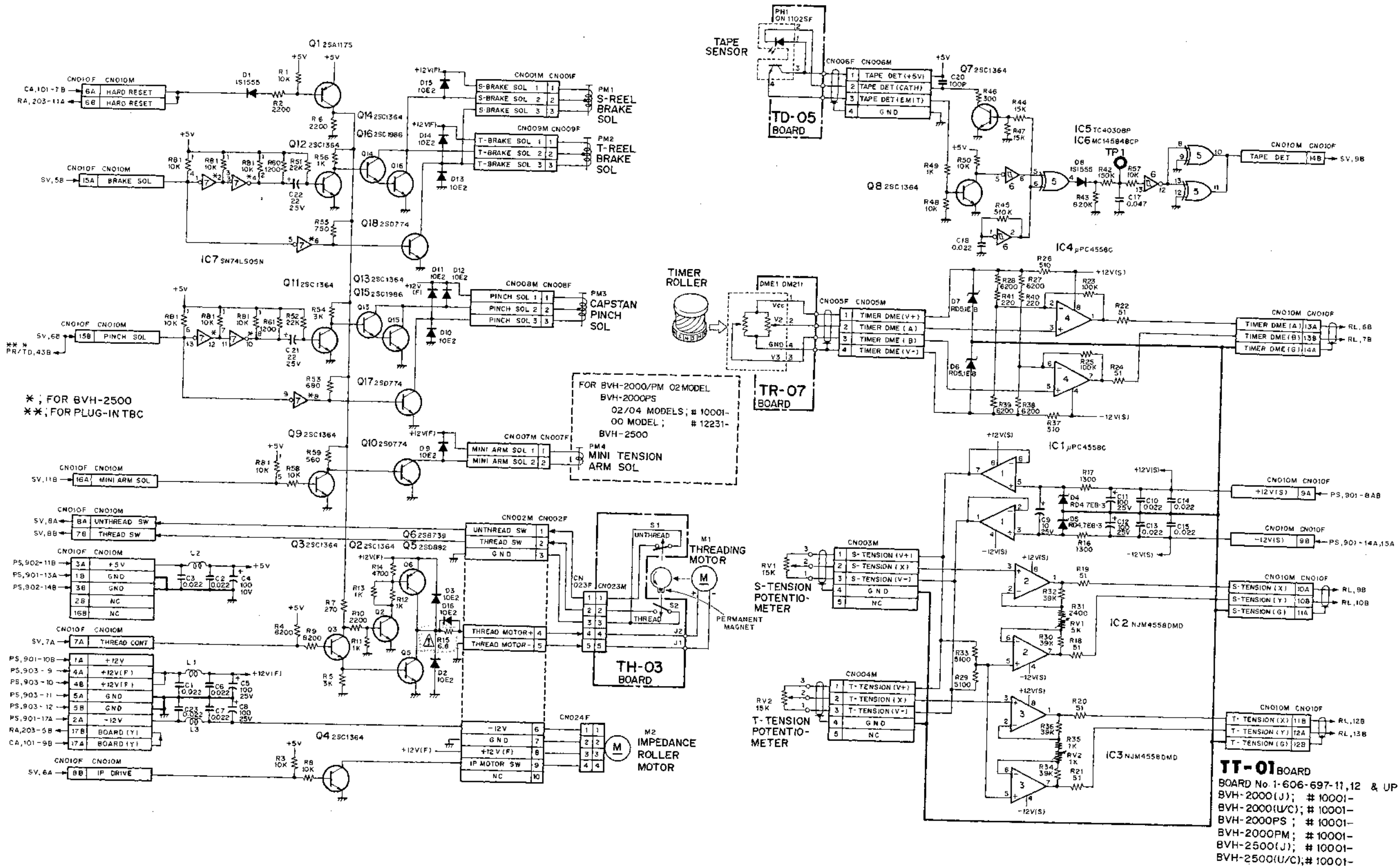
BVH-2000(J,U/C)	IC1	1B
BVH-2000PS	IC2	2B
BVH-2000PM	IC3	2B
BVH-2500(J,U/C)	IC4	2C
	IC5	1C
	IC6	2C
	IC7	1D
CNO01M		
2A		
CNO02M		
2A	Q1	1A
CNO03M	Q2	1A
2B	Q3	2A
CNO04M	Q4	2A
2C	Q5	2A
CNO05M	Q6	2A
2C	Q7	2C
CNO06M	Q8	2C
2C	Q9	1D
CNO07M	Q10	2D
2C	Q11	1D
CNO08M	Q12	1D
2D	Q13	1D
CNO09M	Q14	1D
2D	Q15	2D
CNO10M	Q16	2D
2B	Q17	2D
	Q18	2D
D1	1A	
D2	2A	RB1 1D
D3	2A	
D4	1B	RV1 2B
D5	1B	RV2 2B
D6	2C	
D7	2C	TP1 1D
D8	1C	
D9	2D	TP2 2A
D10	2D	
D11	2D	
D12	2D	
D13	2D	
D14	2D	
D15	2D	
D16	2A	

BVH-2000/PS/PM C-156 C-157 C-158

BVH-2500 C-192 C-193 C-194

TT-01 BOARD

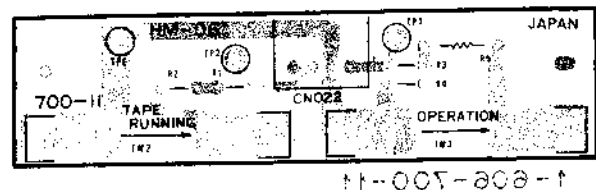
TTP AUX (Solenoid, Motor Driver etc.)



BVH-2000/PS/PM C-159 C-160 C-161 C-162
C-198 C-197 C-196 C-195
BVH-2500

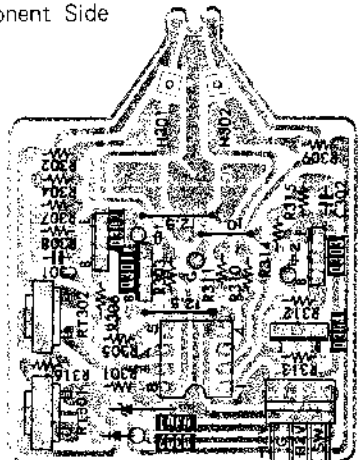
HM-06 BOARD (1-606-700-11)

Component Side
 Applicable Serial No.
 J: 10001-11299
 U/C: 10001-11399
 PS: 10001-11199
 PM: 10001-10199



MOTOR BOARD (1-602-615-11)

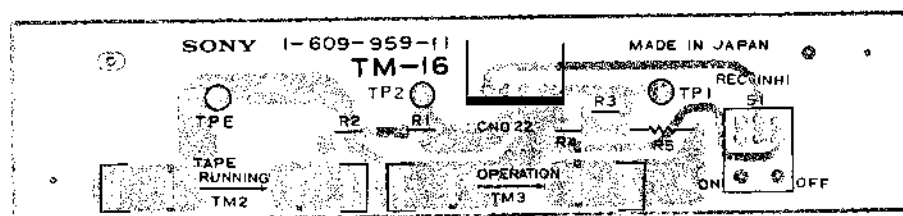
Component Side



1-602-615-11
 SOLDER SIDE

TM-16 BOARD (1-609-959-11)

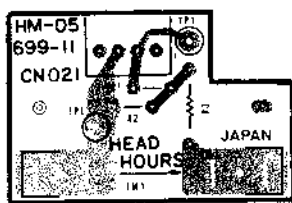
Component Side
 Applicable Serial No.
 J: 11301-
 U/C: 11401-
 PS: 11201-
 PM: 10201-



1-609-959-11

HM-05 BOARD (1-606-699-11)

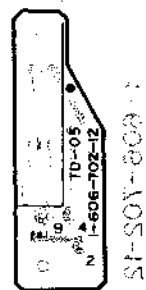
Component Side



11-888-808-1

TD-05 BOARD (1-606-702-12)

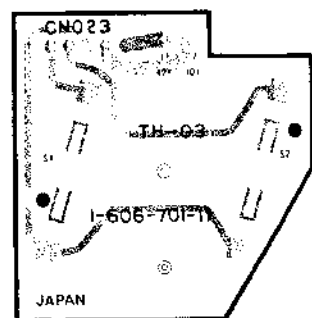
Component Side



1-606-702-12

TH-03 BOARD (1-606-701-11)

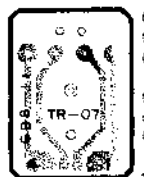
Solder Side



1-606-701-11
 SOLDER SIDE

TR-07 BOARD (1-606-698-11)

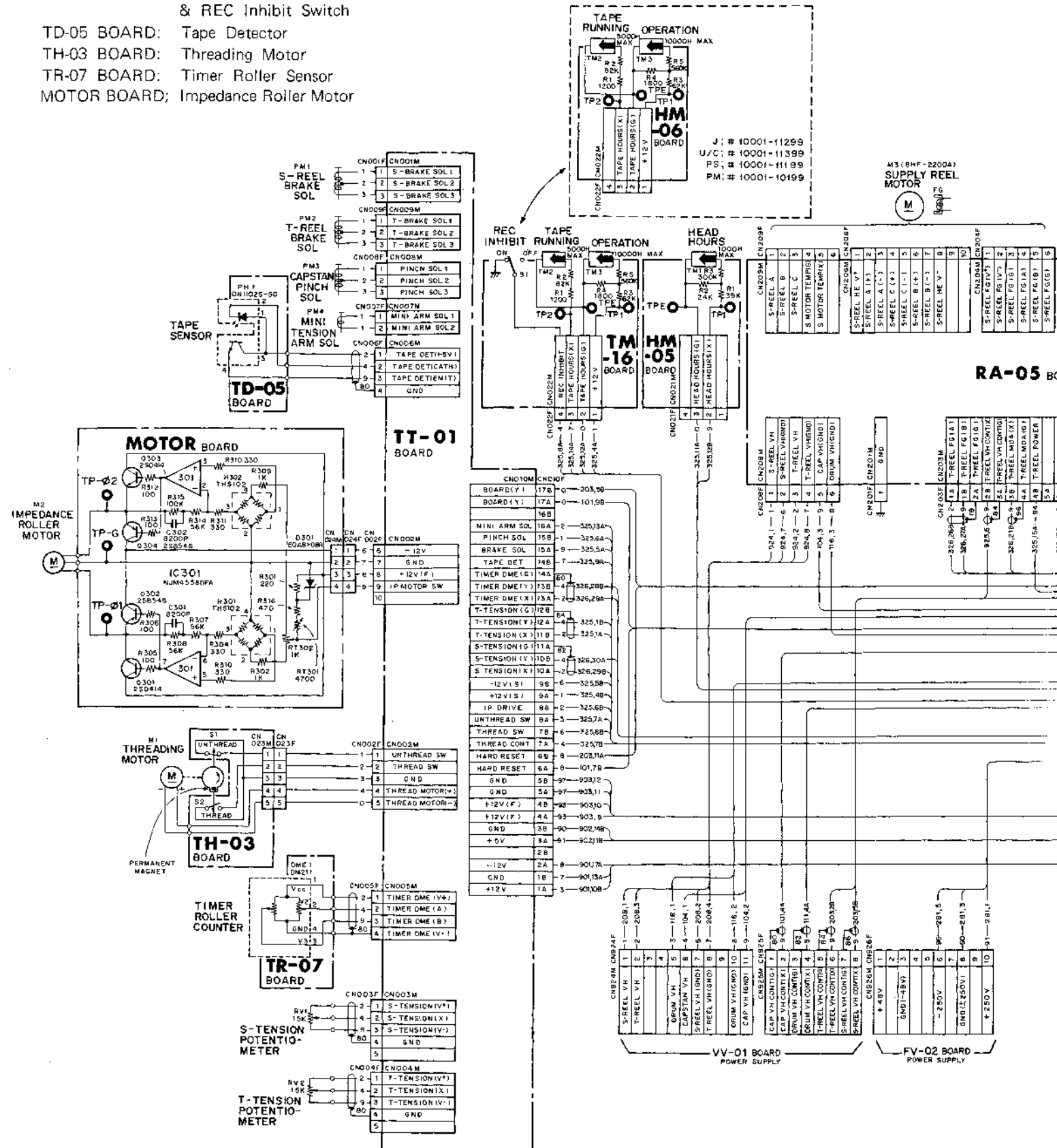
Solder Side

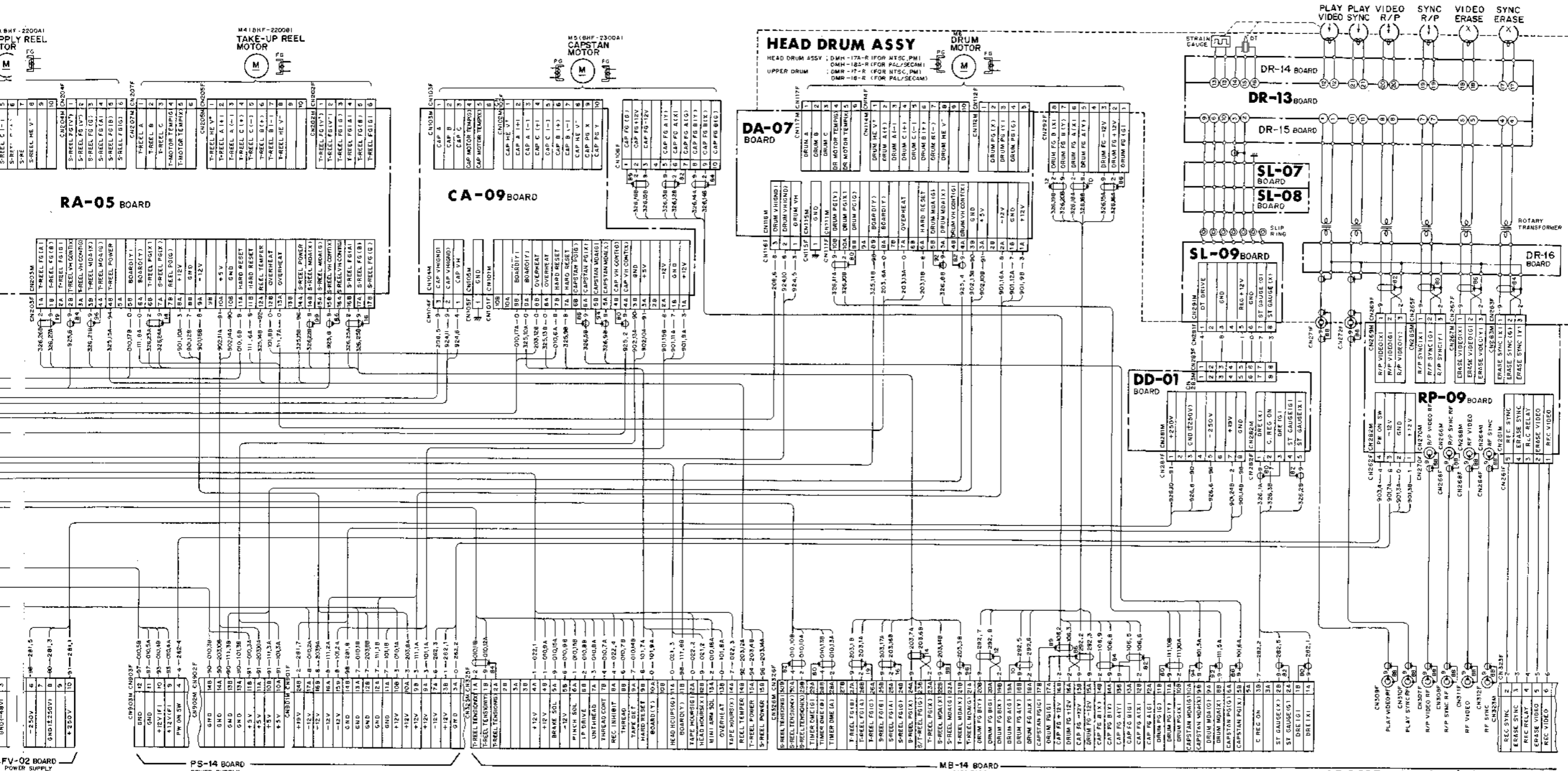


1-606-698-11
 SOLDER SIDE

FRAME WIRING (1/2); TAPE TRANSPORT; FOR 02/04 MODEL

- HM-05 BOARD: Head Hours Meter
- HM-06 BOARD: Tape Running/Operation Hours Meter
- TM-16 BOARD: Tape Running/Operation Hours Meter & REC Inhibit Switch
- TD-05 BOARD: Tape Detector
- TH-03 BOARD: Threading Motor
- TR-07 BOARD: Timer Roller Sensor
- MOTOR BOARD: Impedance Roller Motor



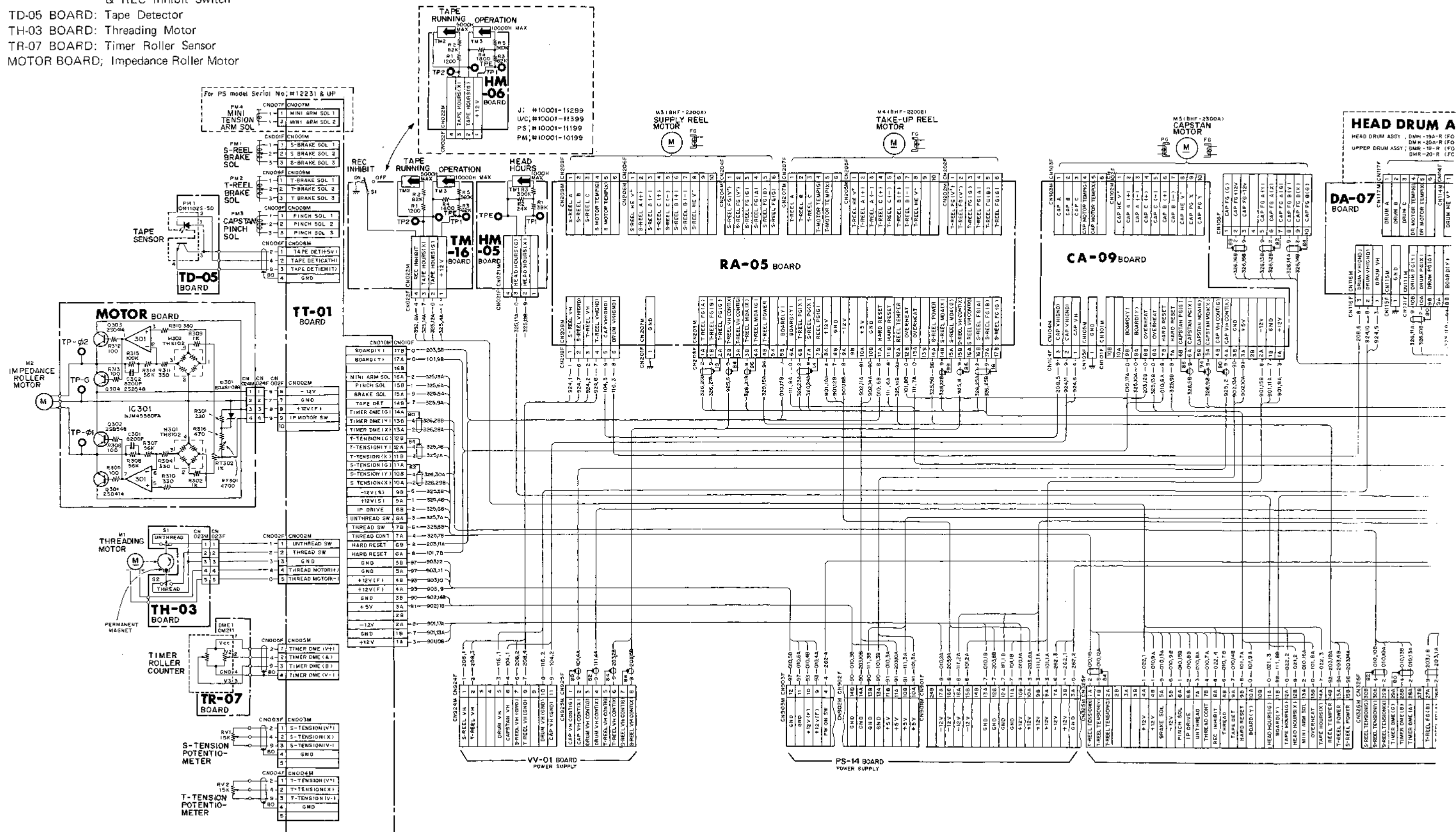


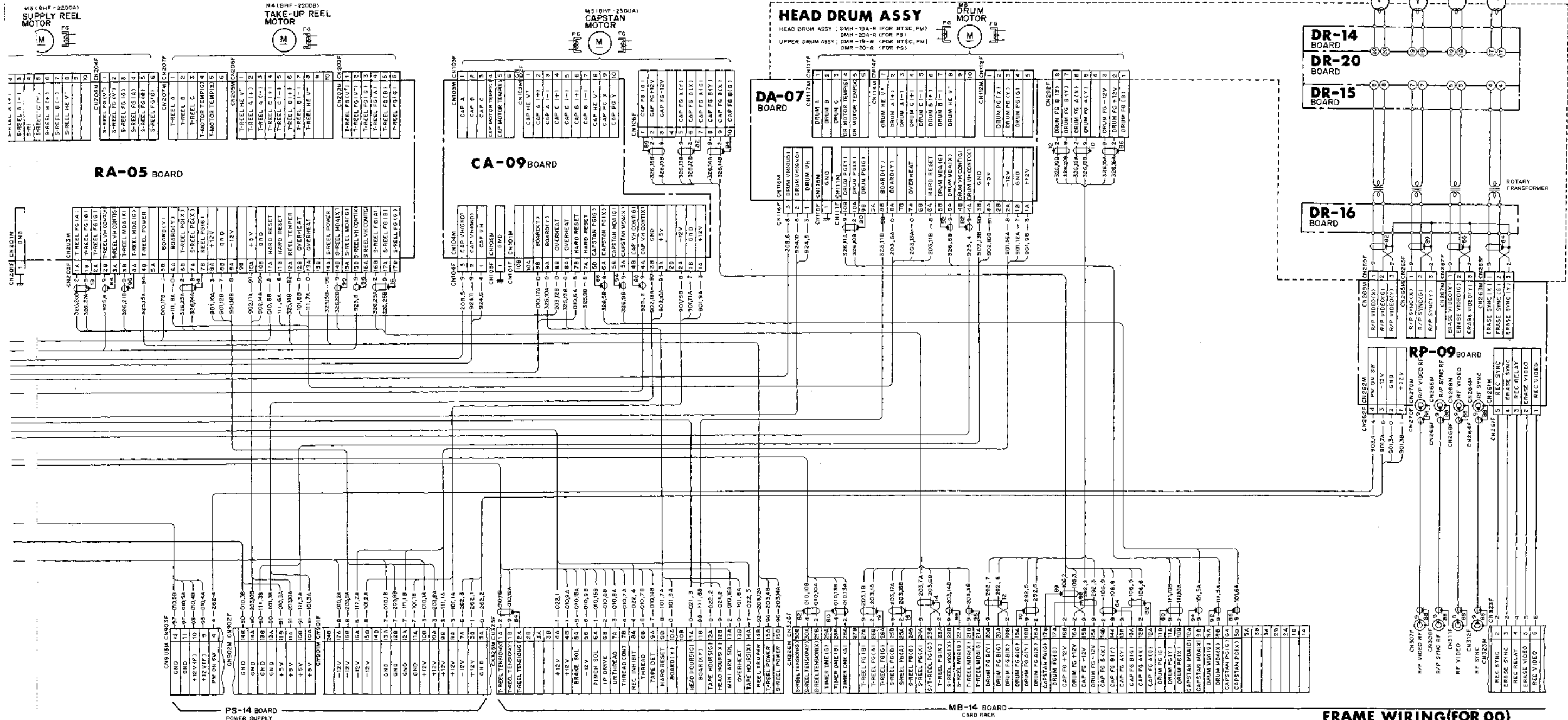
**FRAME WIRING (FOR 02/04)
TAPE TRANSPORT (1/2)**

- BVH-2000 (J) : # 10001-
- BVH-2000(W/C) : # 10001-
- BVH-2000PS : # 10001-
- BVH-2000PM : # 10001-

FRAME WIRING (1/2); TAPE TRANSPORT; FOR 00 MODEL

- HM-05 BOARD: Head Hours Meter
- HM-06 BOARD: Tape Running/Operation Hours Meter
- TM-16 BOARD: Tape Running/Operation Hours Meter & REC Inhibit Switch
- TD-05 BOARD: Tape Detector
- TH-03 BOARD: Threading Motor
- TR-07 BOARD: Timer Roller Motor
- MOTOR BOARD; Impedance Roller Motor





**FRAME WIRING (FOR 00)
TAPE TRANSPORT (1/2)**

- BVH-2000 (J) : # 10001 -
- BVH-2000(U/C) : # 10001 -
- BVH-2000PS : # 10001 -
- BVH-2000PM : # 10001 -

C-168

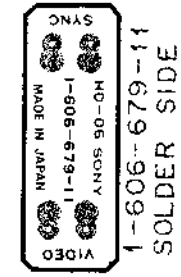
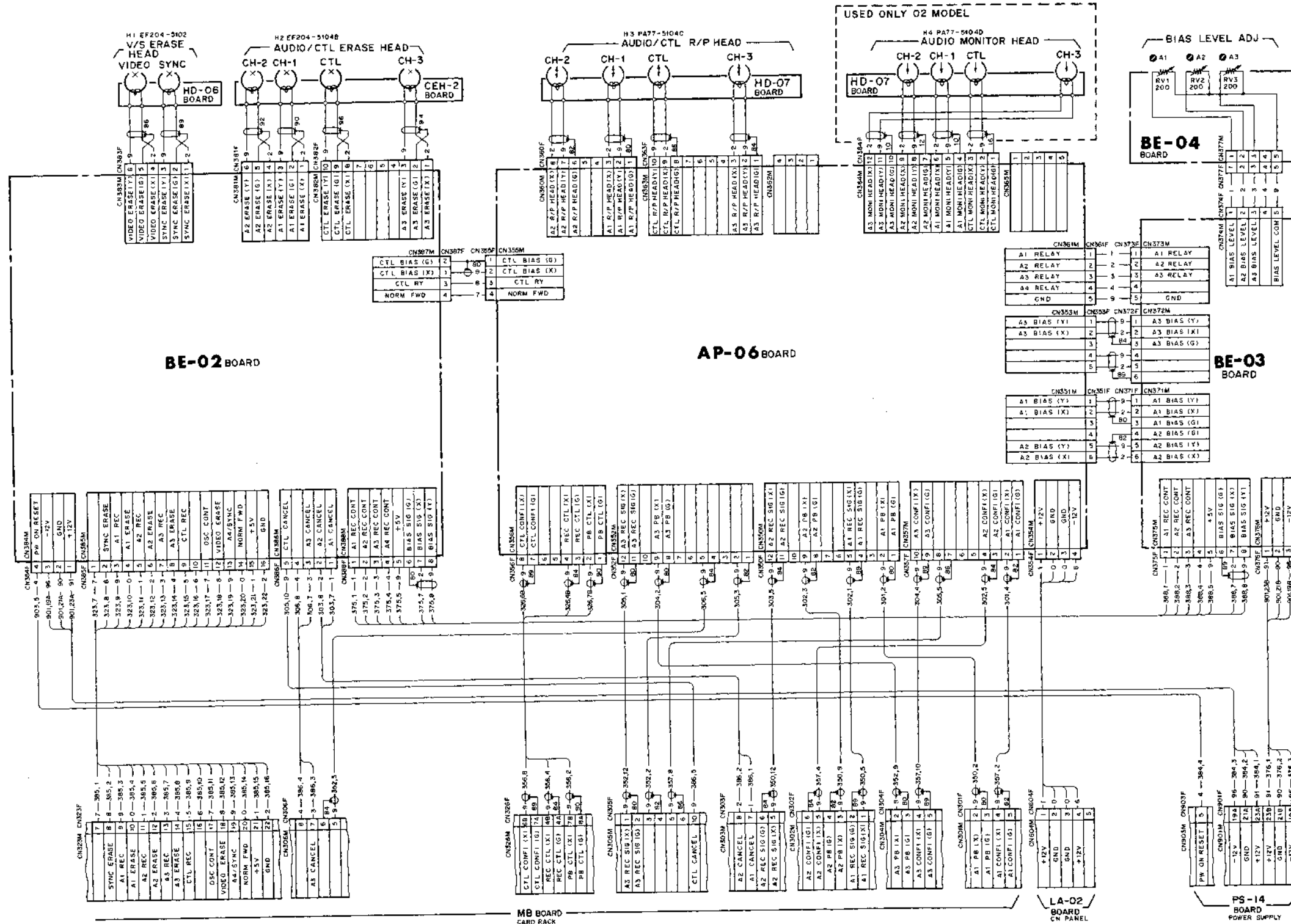
C-167

BVH-2000/PS/PM

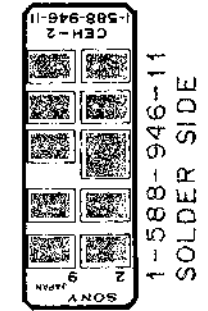
FRAME WIRING (2/2); TAPE TRANSPORT; FOR 00/02 MODEL

HD-06 BOARD: Video/Sync Erase Head
 CEH-2 BOARD: Audio/CTL Erase Head
 HD-07 BOARD: Audio/CTL R/P, Monitor Head

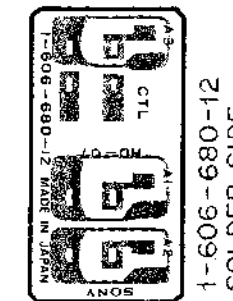
HD-06 BOARD (1-606-679-11)
Solder Side



CEH-2 BOARD (1-588-946-11)
Solder Side



HD-07 BOARD (1-606-680-12)
Solder Side



FRAME WIRING FOR BVH-2000/PS/PM 00/02 MODEL & BVH-2500

TAPE TRANSPORT(2/2)

BVH-2000(J); # 10001-
 BVH-2000(U/C); # 10001-
 BVH-2000 PS; # 10001-
 BVH-2000PM; # 10001-
 BVH-2500(J); # 10001-
 BVH-2500(U/C); # 10001-

C-168

C-204

C-203

BVH-2500

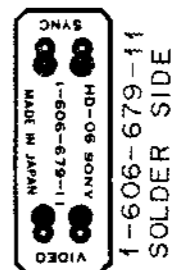
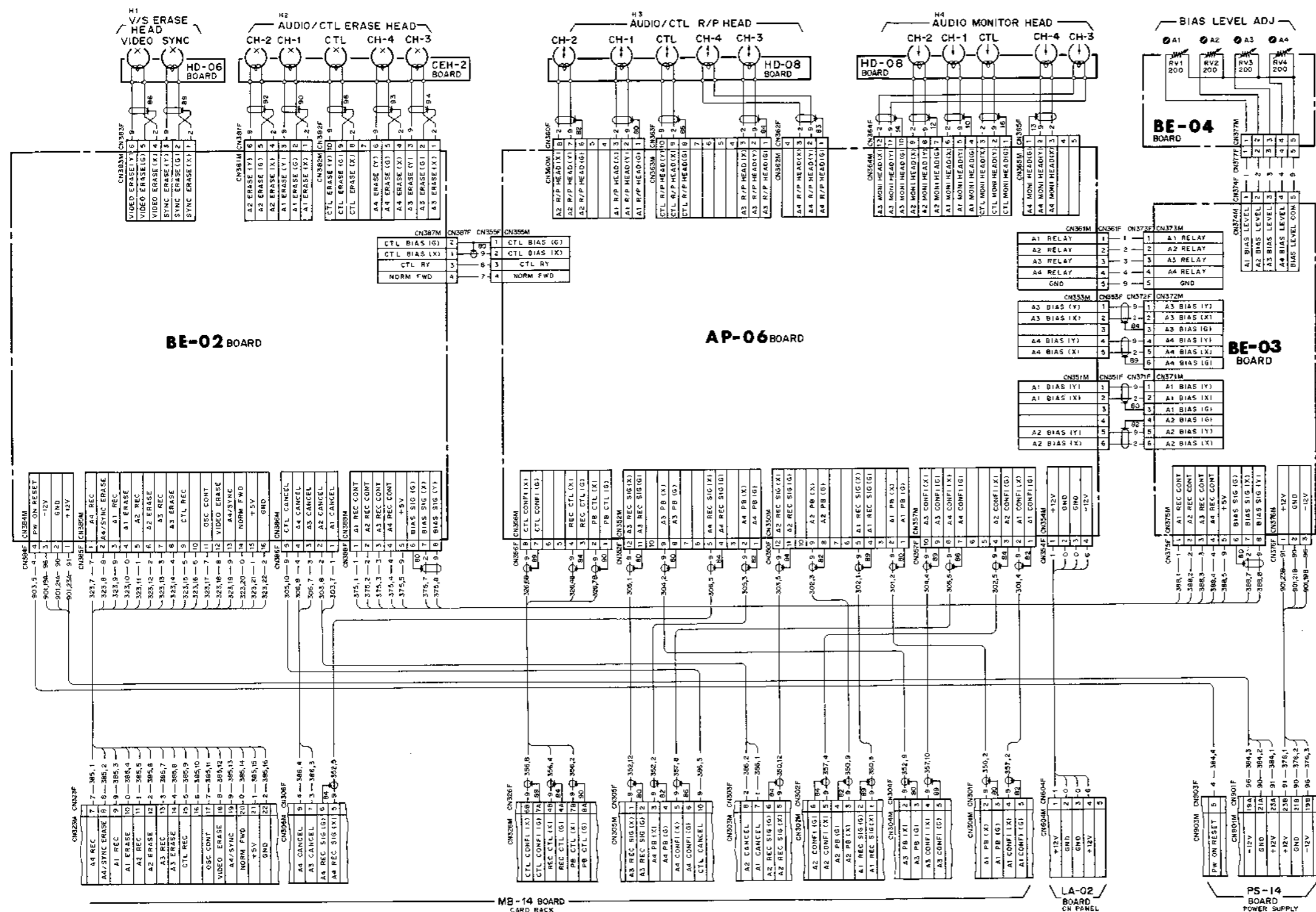
C-167

FRAME WIRING (2/2); TAPE TRANSPORT; FOR 04 MODEL

HD-06 BOARD; Video/Sync Erase Head
 CEH-2 BOARD; Audio/CTL Erase Head
 HD-08 BOARD; Audio/CTL R/P, Monitor Head

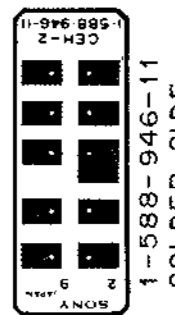
HD-06 BOARD (1-606-679-11)

Solder Side



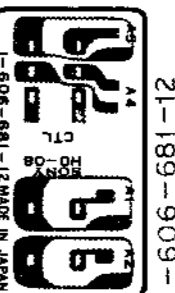
CEH-2 BOARD (1-588-946-11)

Solder Side



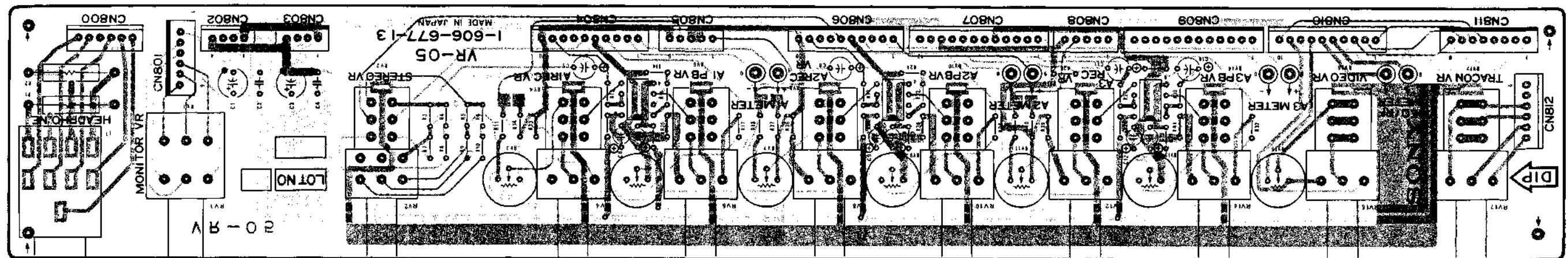
HD-08 BOARD (1-606-681-12)

Solder Side



FRAME WIRING (FOR 04)
 TAPE TRANSPORT(2/2)
 BVH-2000PS;#10001-

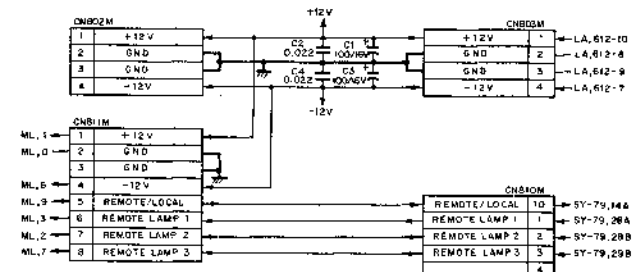
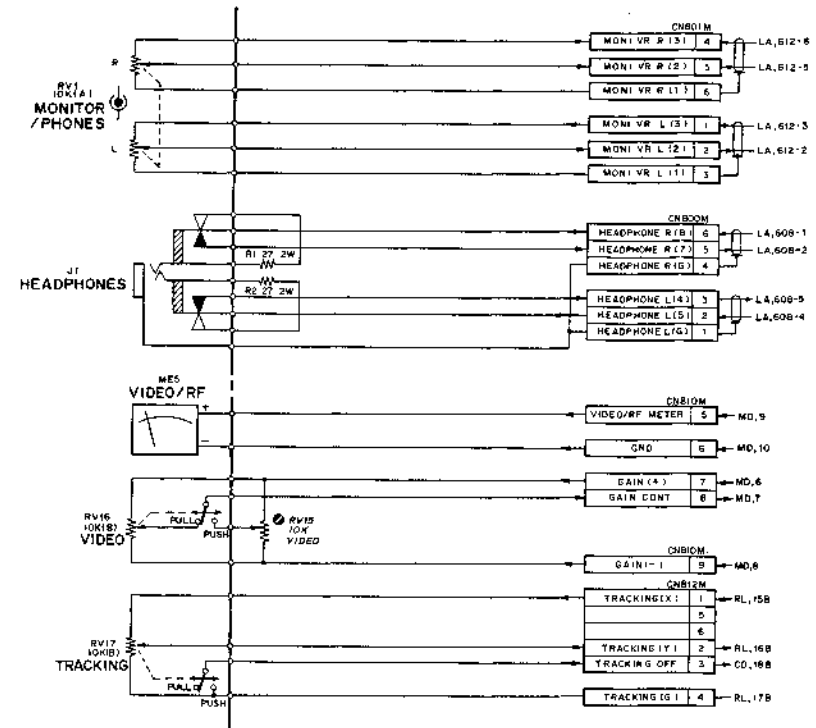
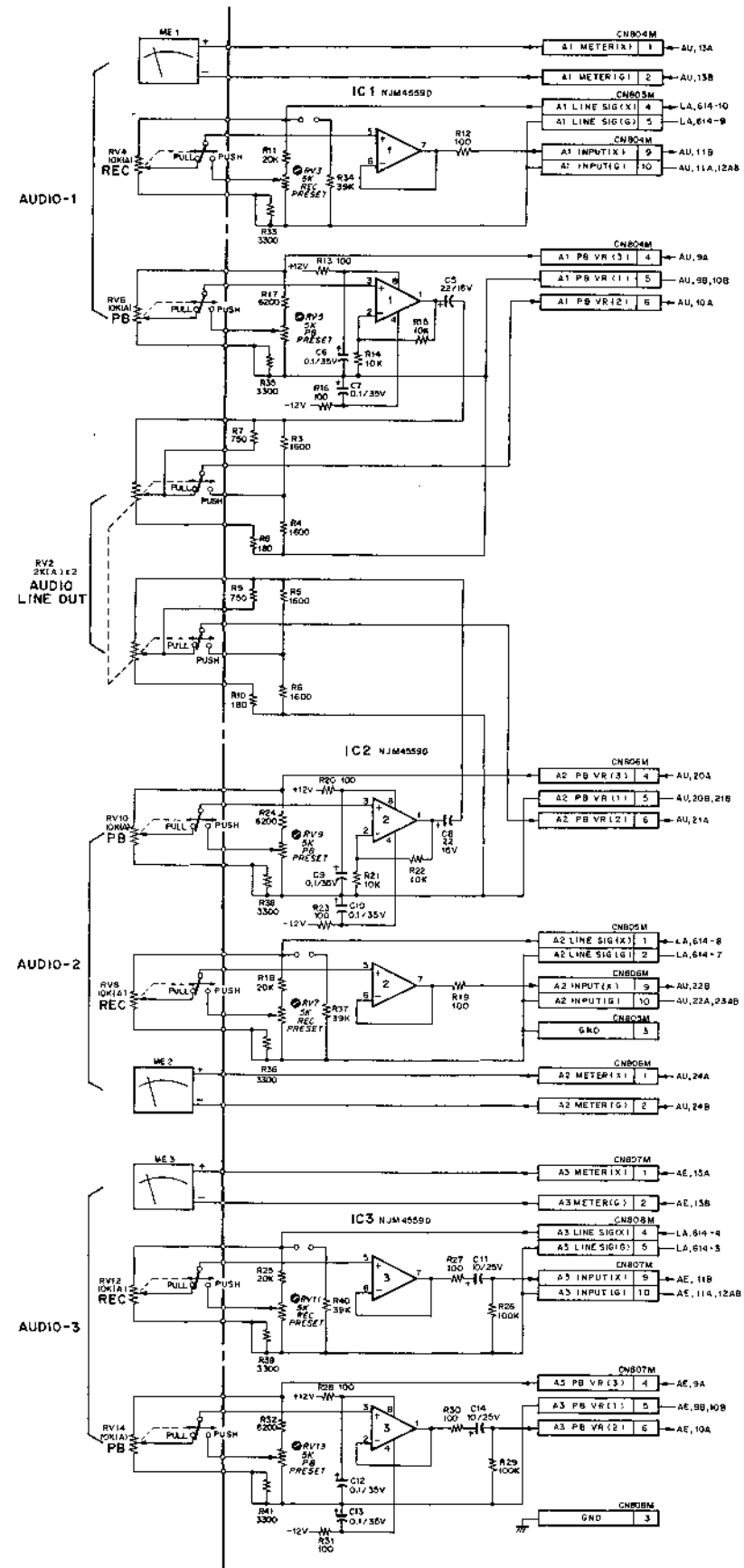
VR-05 BOARD (1-606-677-13) ; FOR 00/02 MODEL
Component Side



1-606-677-13 COMPONENT SIDE

1-606-677-13

VR-05 BOARD; FOR 00/02 MODEL
Level Control/Indicator

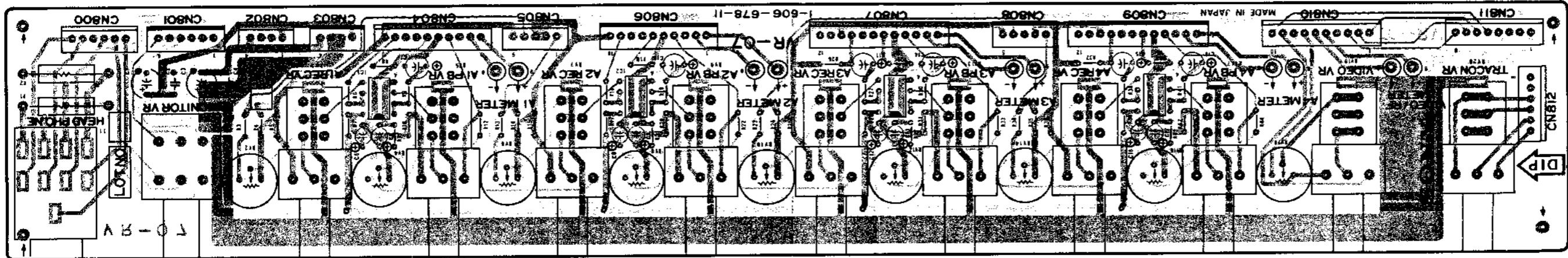


CN804M	3	
CN804M	7	
CN804M	8	
CN805M	3	
CN805M	7	
CN805M	8	
CN807M	3	
CN807M	7	
CN807M	8	
CN808M	1	
CN808M	2	
CN808M	3	
CN808M	4	
CN808M	5	
CN808M	6	
CN808M	7	
CN808M	8	
CN808M	9	
CN808M	10	
CN808M	11	
CN808M	12	

VR-05 BOARD FOR BVH-2000/PS/PM 00/02 MODEL & BVH-2500
BOARD NO 1-606-677-11/-12/-13 & UP

- BVH-2000(J); #10001-
- BVH-2000(U/C); #10001-
- BVH-2000PS; #10001-
- BVH-2000PM; #10001-
- BVH-2500(J); #10001-
- BVH-2500(U/C); #10001-

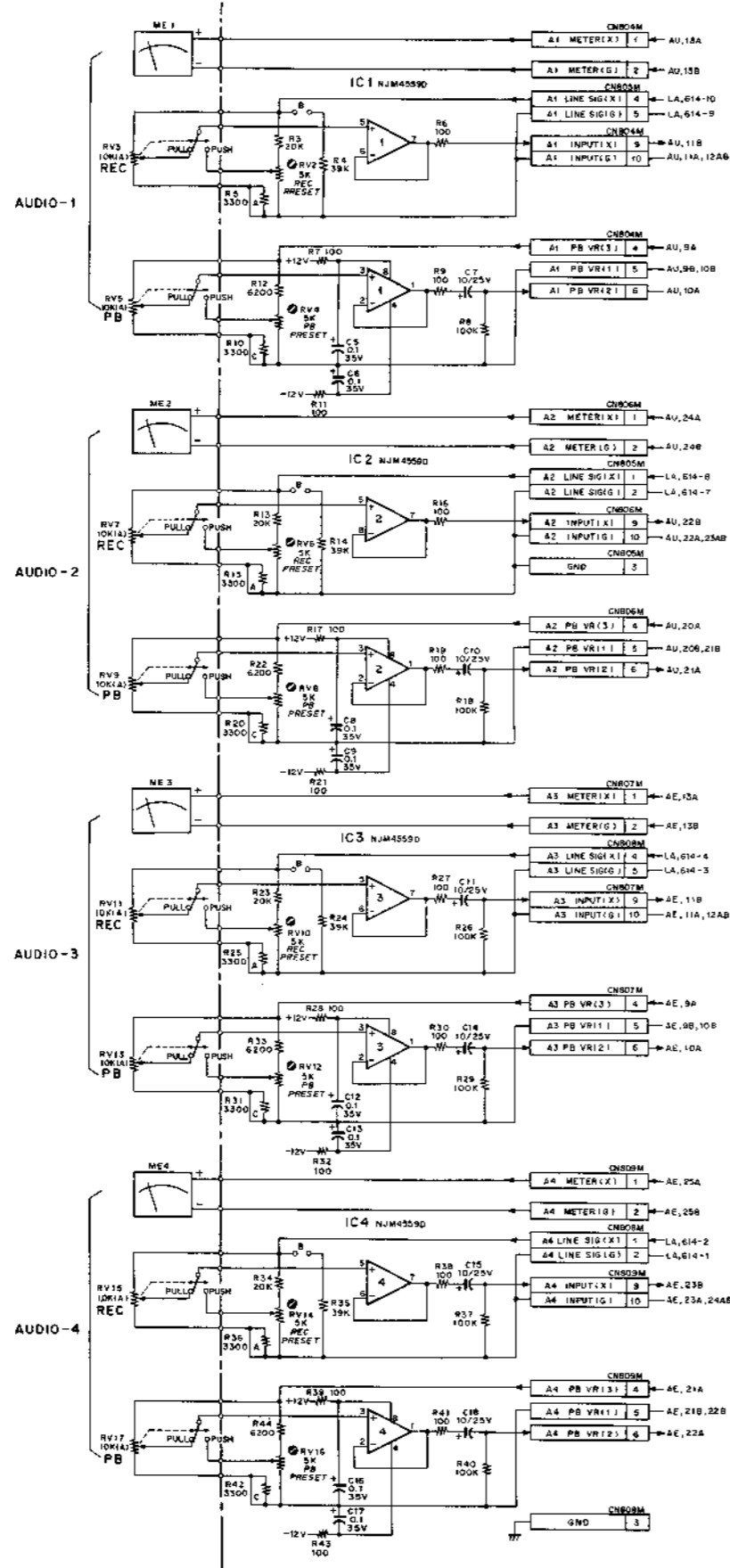
VR-07 BOARD (1-606-678-11) ; FOR 04 MODEL
Component Side



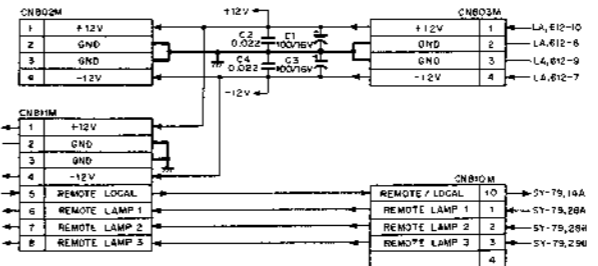
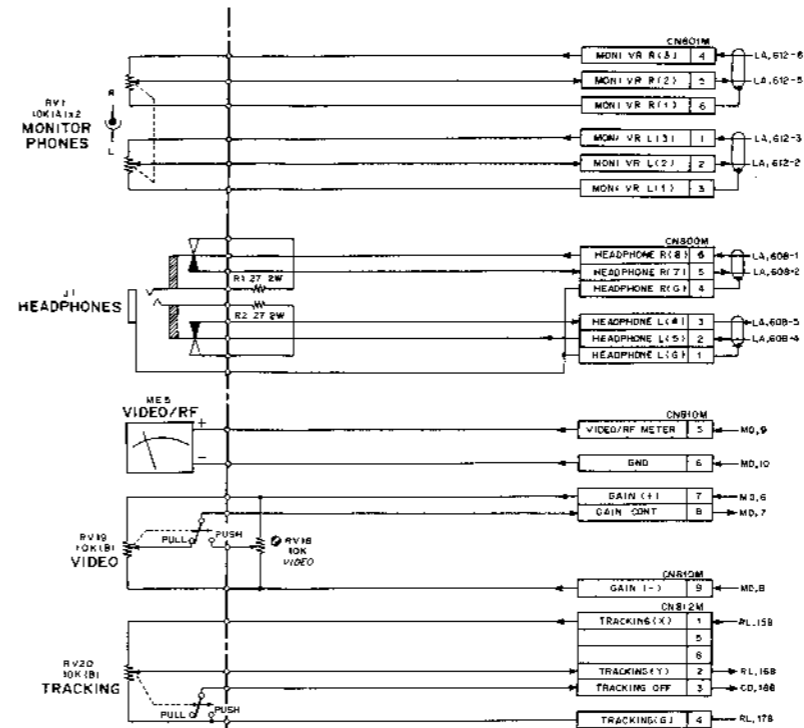
1-606-678-11 COMPONENT SIDE

1-606-678-11

VR-07 BOARD; FOR 04 MODEL
Level Control/Indicator



C-172(4/5)



3	NC
7	NC
8	NC

3	NC
7	NC
8	NC
11	NC
12	NC

NC	11
NC	12
NC	3
NC	7
NC	8

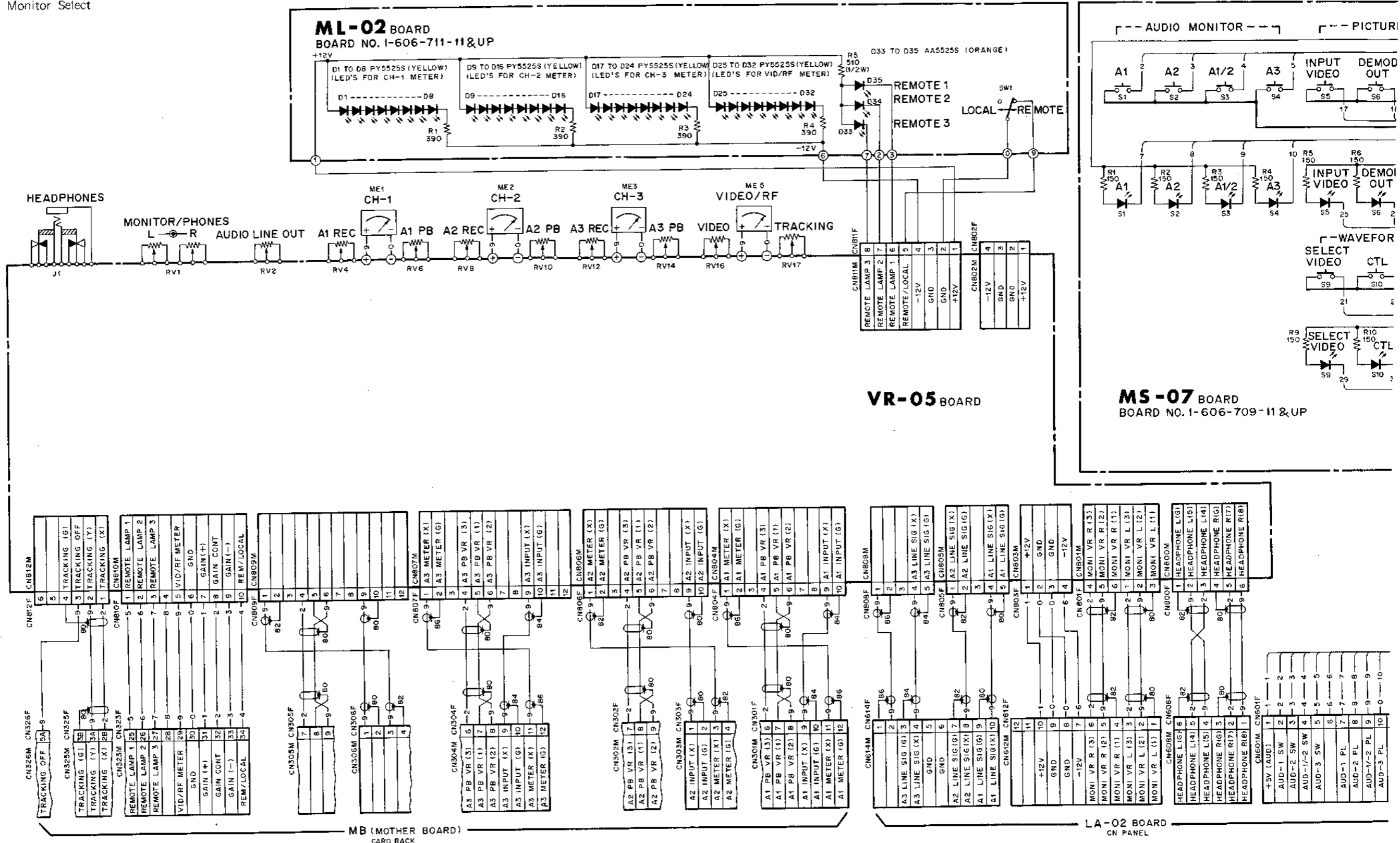
NC	3
NC	7
NC	8

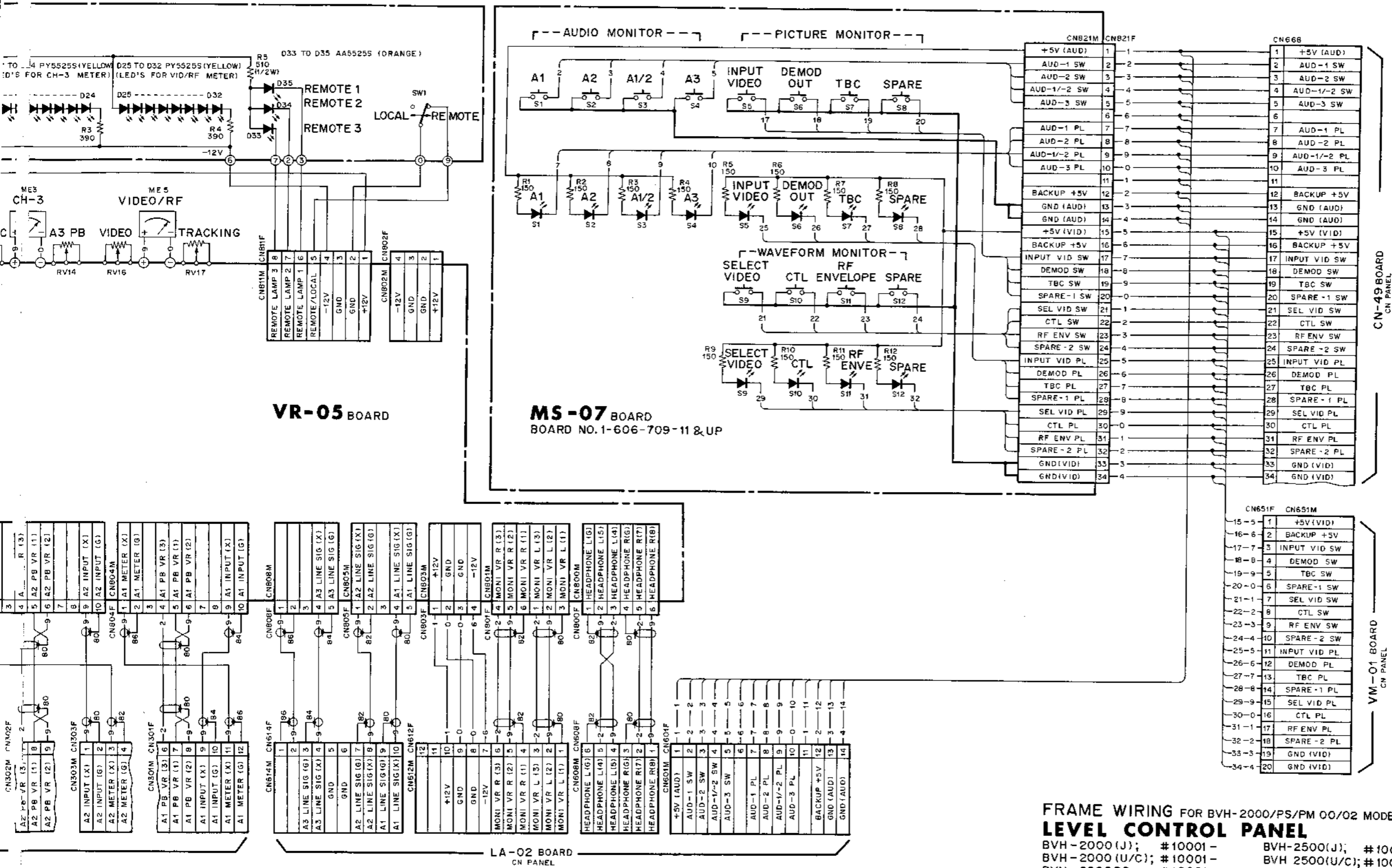
VR-07 BOARD (FOR 04)
BOARD NO. 1-606-678-11
BVH-2000PS; #10001-

C-172(5/5)

FRAME WIRING; LEVEL CONTROL PANEL; FOR 00/02 MODEL

ML-02 BOARD: Meter Lamp
MS-07 BOARD: Monitor Select

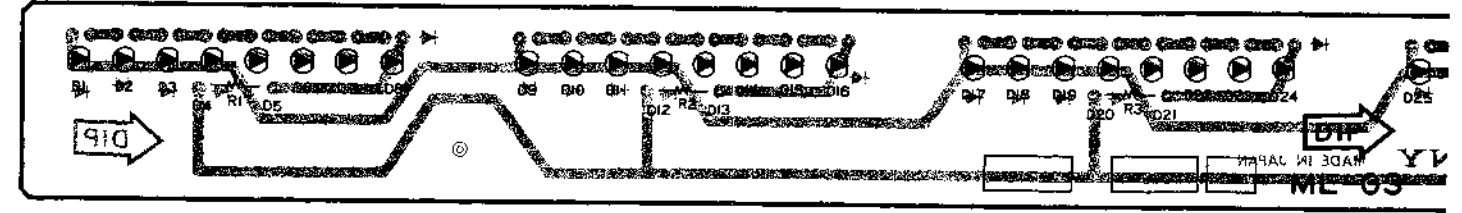




FRAME WIRING FOR BVH-2000/PS/PM 00/02 MODEL & BVH-2500 LEVEL CONTROL PANEL
 BVH-2000 (J); #10001- BVH-2500(J); #10001-
 BVH-2000 (U/C); #10001- BVH 2500(U/C); #10001-
 BVH-2000PS; #10001-
 BVH-2000PM; #10001-

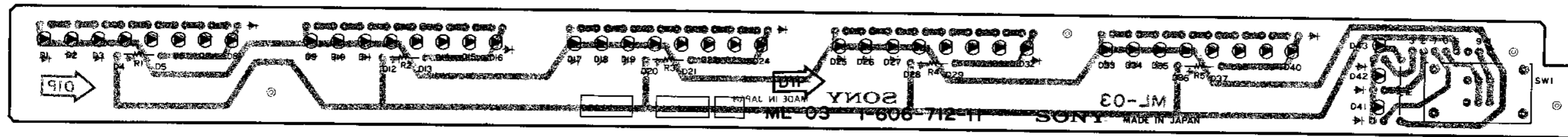
ML-03 BOARD (1-606-712-11)

Component Side



ML-03 BOARD (1-606-712-11)

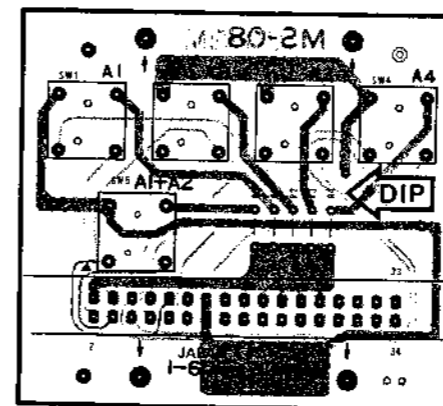
Component Side



11-015-202-1

MS-08 BOARD (1-606-710-11)

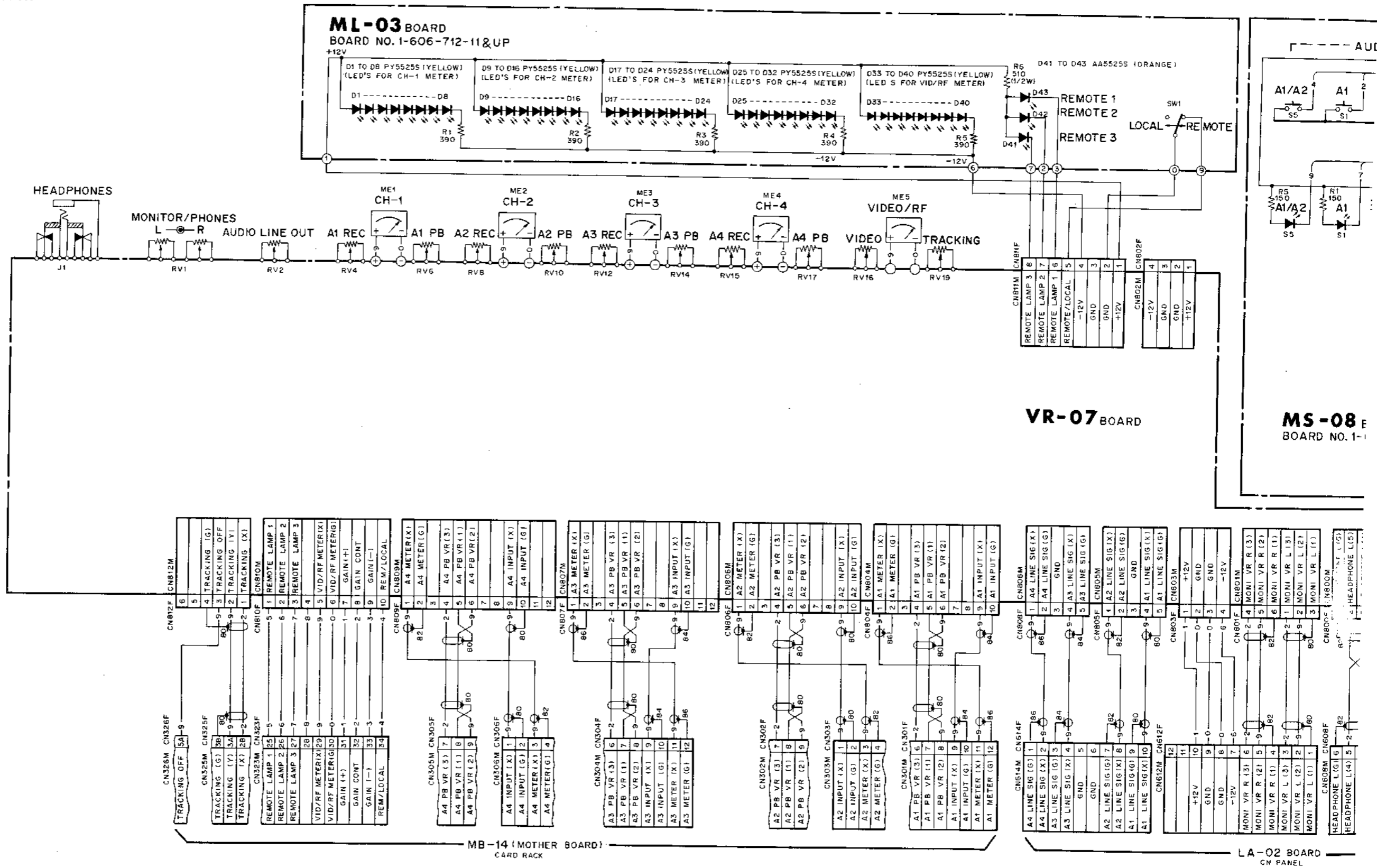
Component Side

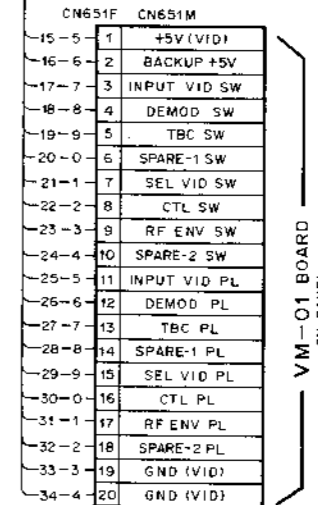
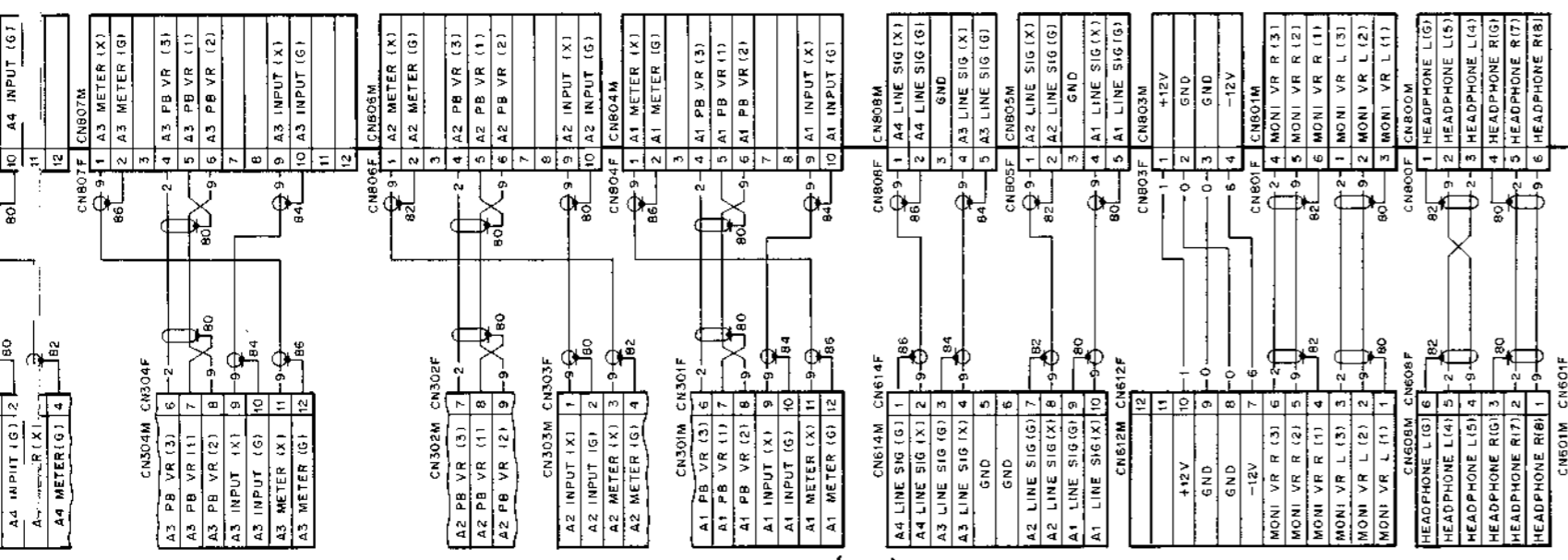
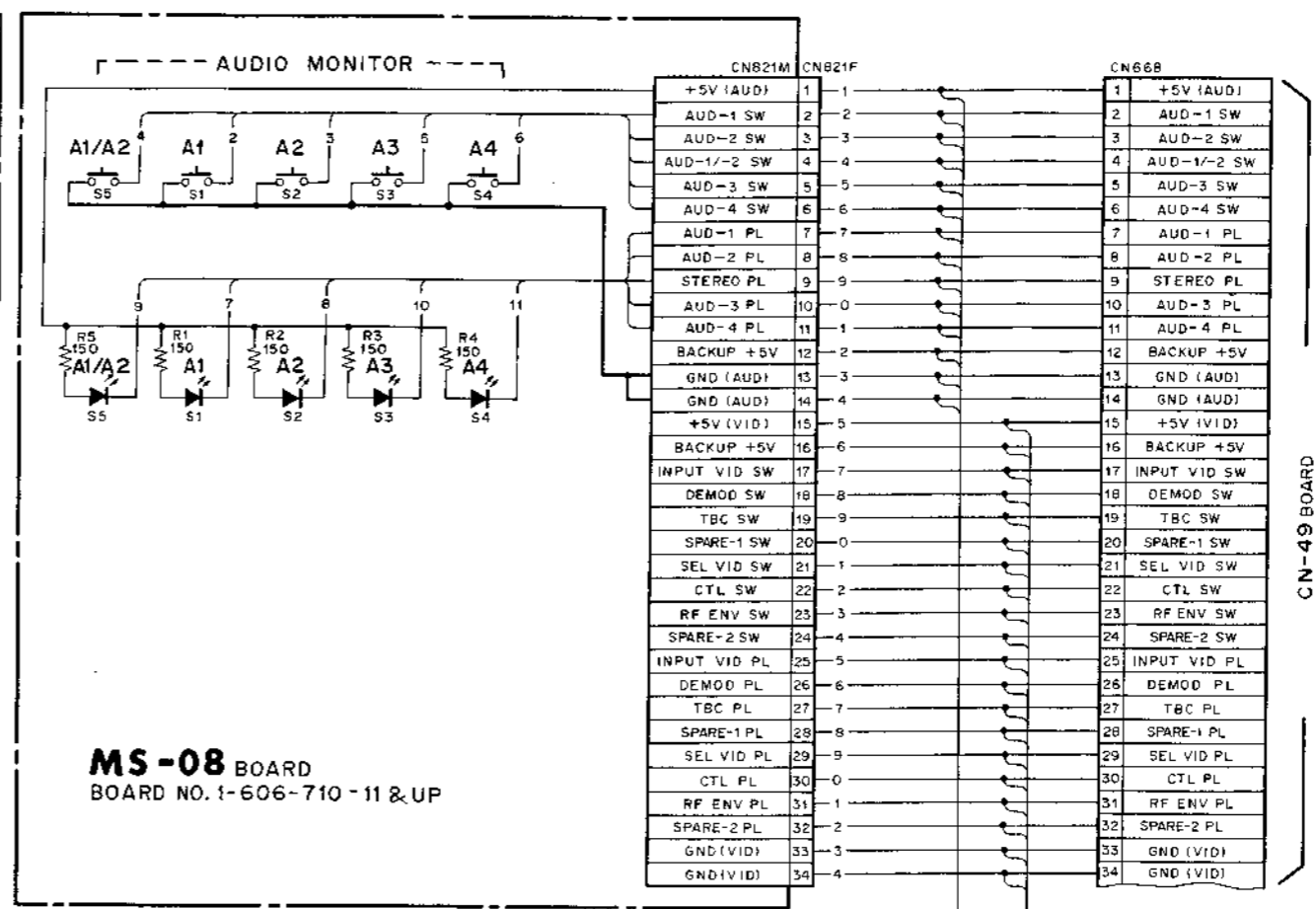
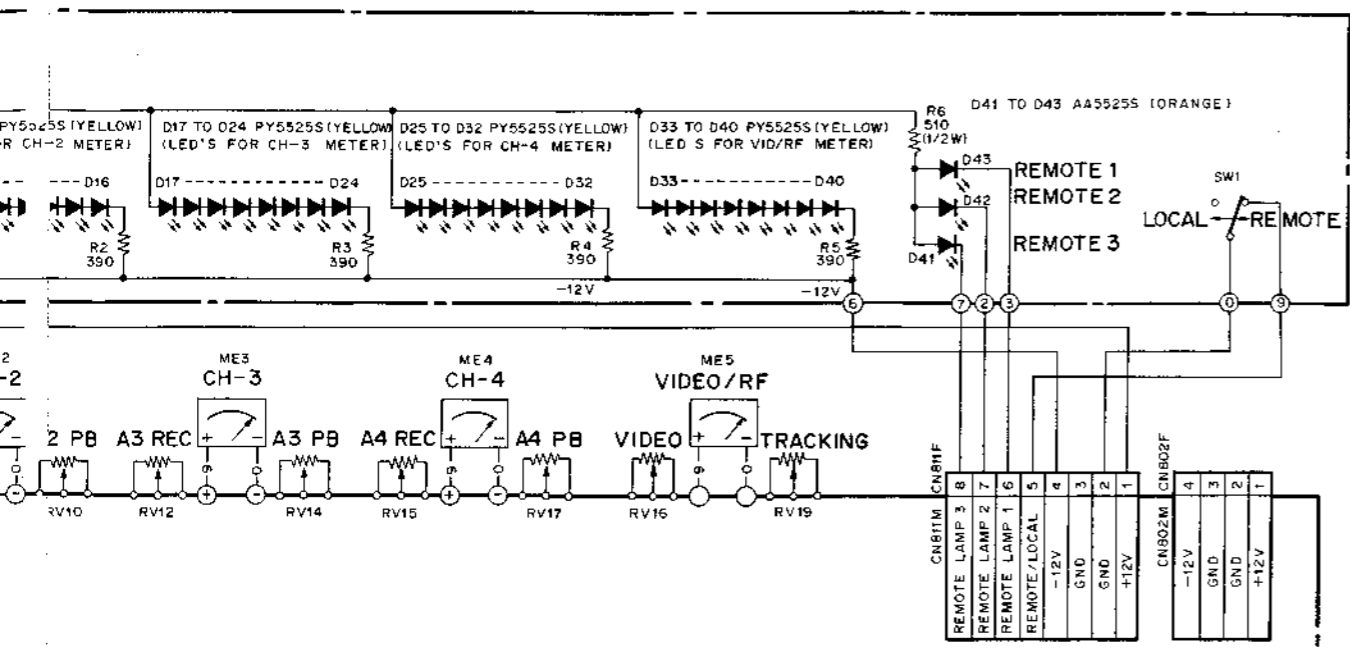


1-606-710-11
COMPONENT SIDE
11-015-202-1

FRAME WIRING; LEVEL CONTROL PANEL; FOR 04 MODEL

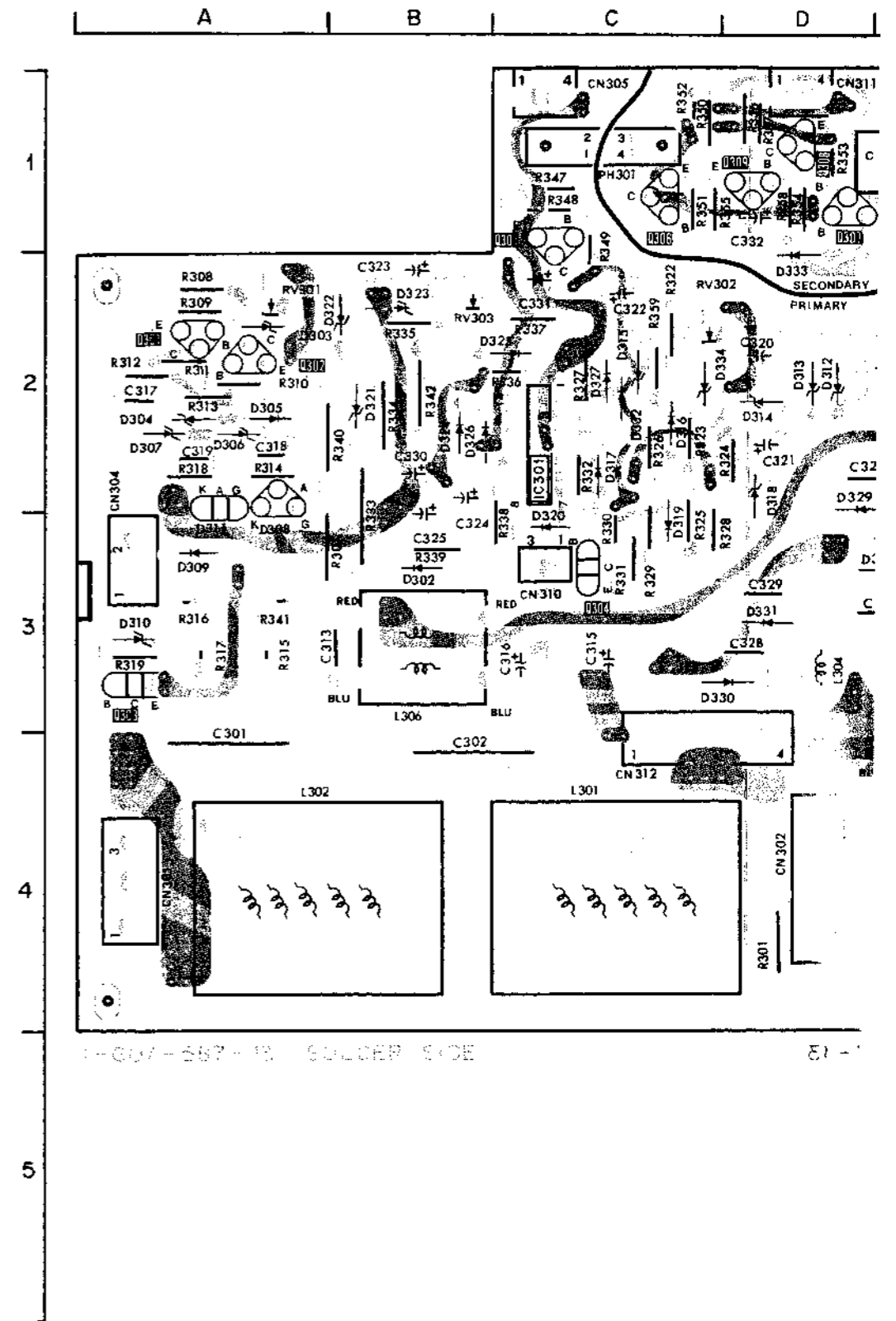
ML-03 BOARD; Meter Lamp
MS-08 BOARD; Monitor Select

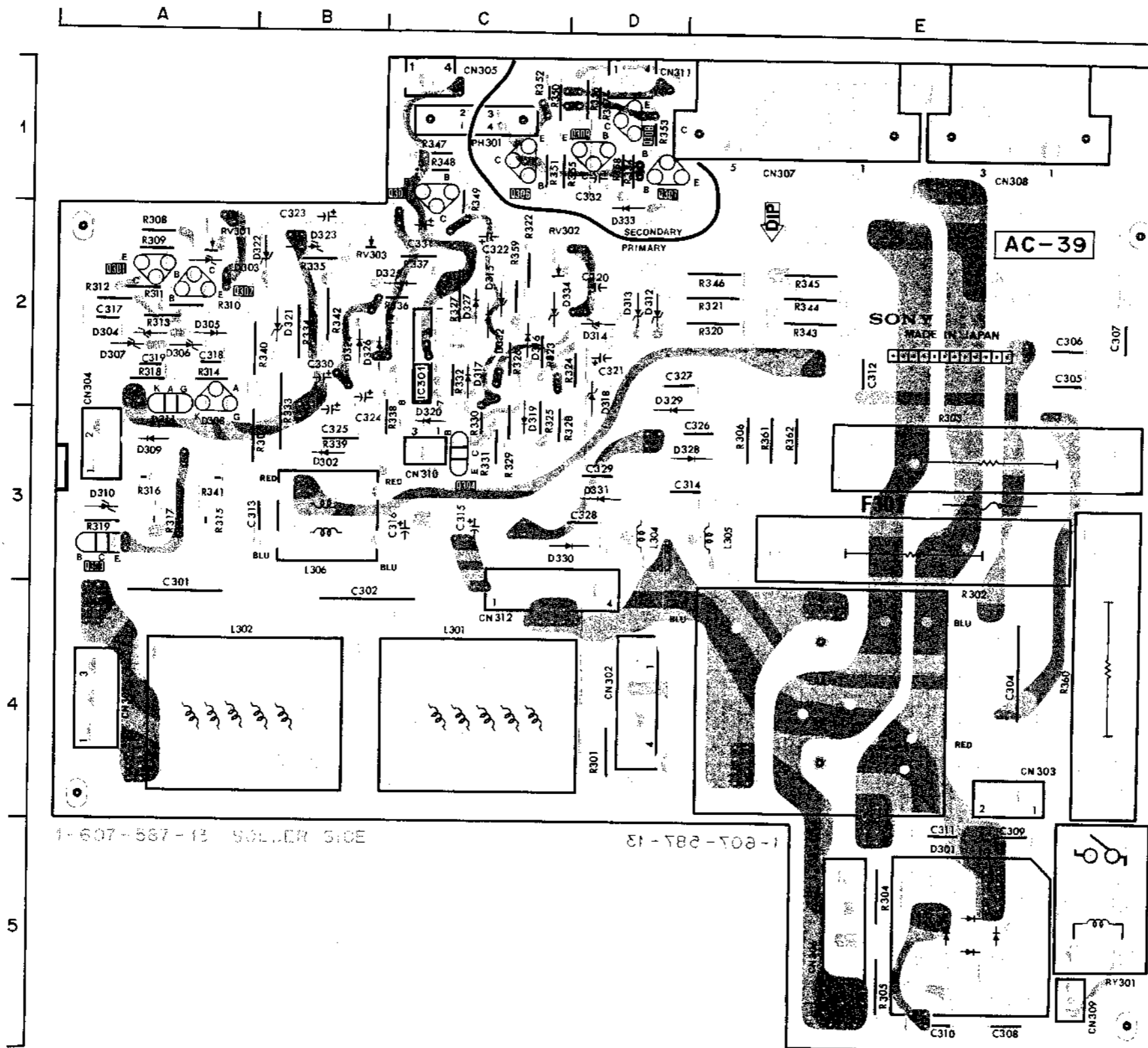




FRAME WIRING (FOR 04)
LEVEL CONTROL PANEL
BVH-2000PS; #10001-

AC-39 BOARD (1-607-587-13)
Solder Side





AC-39 (1-607-587-13 & UP)

BVH-2000(J,U/C)
BVH-2000PS
BVH-2000PM
BVH-2500(J,U/C)

CN501F
4A
CN502F
4D
CN503M
4E
CN504F
3A
CN505M
1C
CN506M
5E
CN507M
1E
CN508M
1E
CN509M
5E
CN510M
3C
CN511M
1D
CN512M
4C

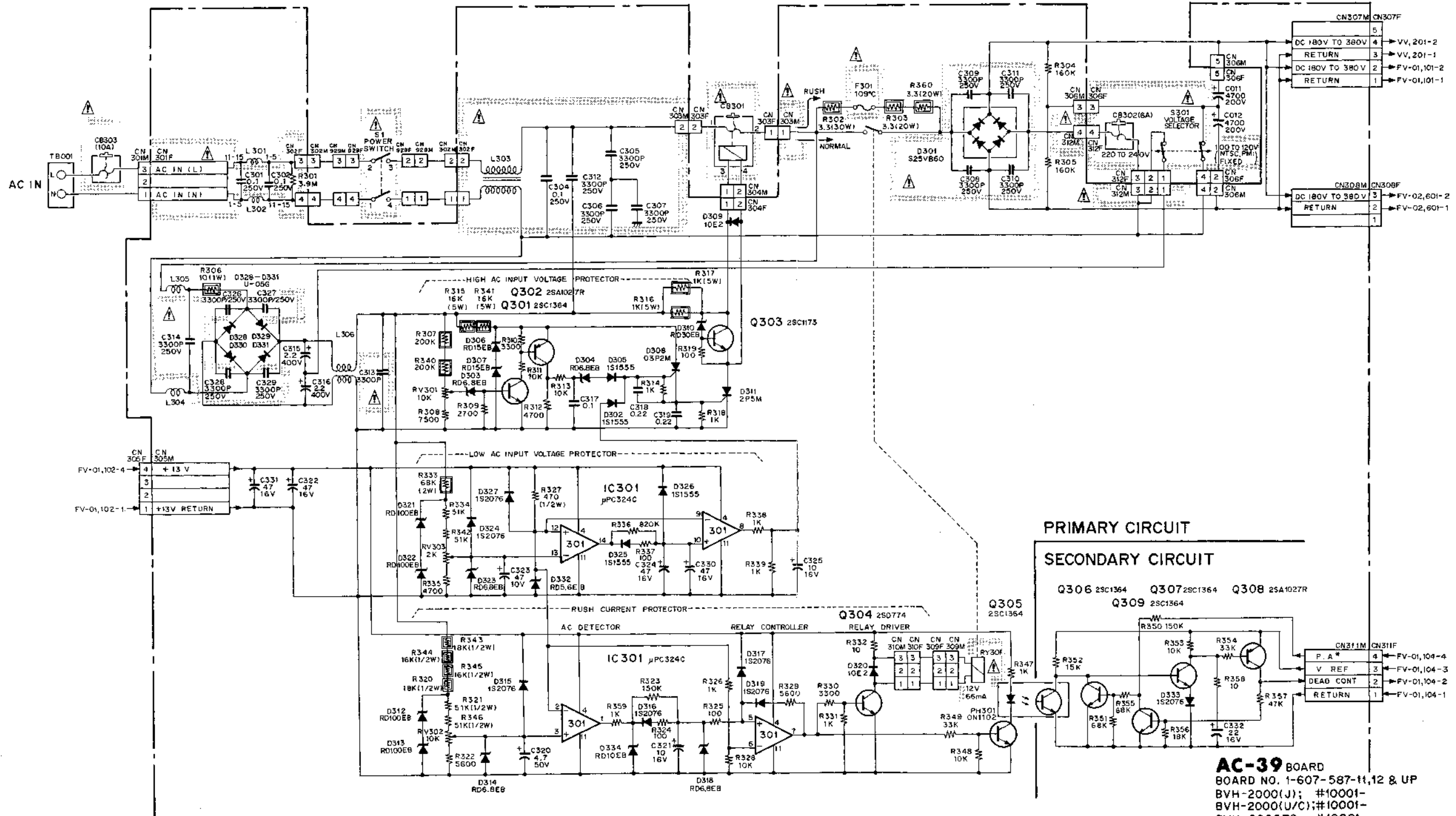
D301 5E
D302 3B
D303 2A
D304 2A
D305 2A
D306 2A
D307 2A
D308 2A
D309 3A
D310 3A
D311 2A
D312 2B
D313 2B
D314 2B
D315 2C
D316 2C
D317 2C
D318 2D
D319 3C
D320 3C
D321 2B
D322 2B
D323 2B
D324 2B
D325 2C
D326 2B
D327 2C
D328 3E
D329 2D
D330 3D
D331 3D
D332 2C
D333 2C
D334 2C

IC301 2C
PH501 1C
Q301 2A
Q302 2A
Q303 3A
Q304 3C
Q305 1C
Q306 1C
Q307 1D
Q308 1D
Q309 1D

RV301 2A
RV302 2C
RV303 2B
RY301 5E

AC-39 BOARD
Primary Rectifier

POWER SUPPLY AC-39 AC-39 POWER SUPPLY



AC-39 BOARD
BOARD NO. 1-607-587-11,12 & UP
BVH-2000(J); #10001-
BVH-2000(U/C);#10001-
BVH-2000PS; #10001-
BVH-2000PM; #10001-
BVH-2500(J); #10001-
BVH-2500(U/C); #10001-

BVH-2000/PS/PM C-181

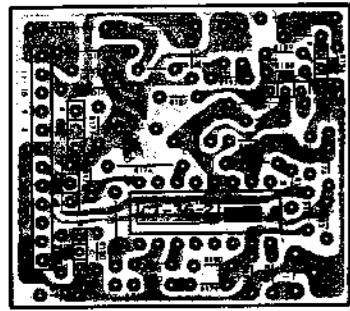
C-218

C-217

BVH-2500

CT-36-2 BOARD
(1-607-591-23)

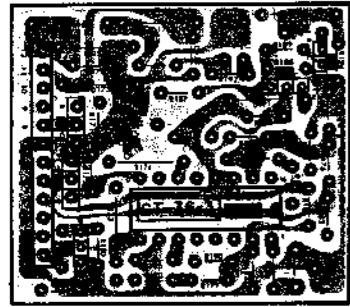
Solder Side



1-607-591-23
SOLDER SIDE
ES-192-Y08-1

CT-36-3 BOARD
(1-607-591-33)

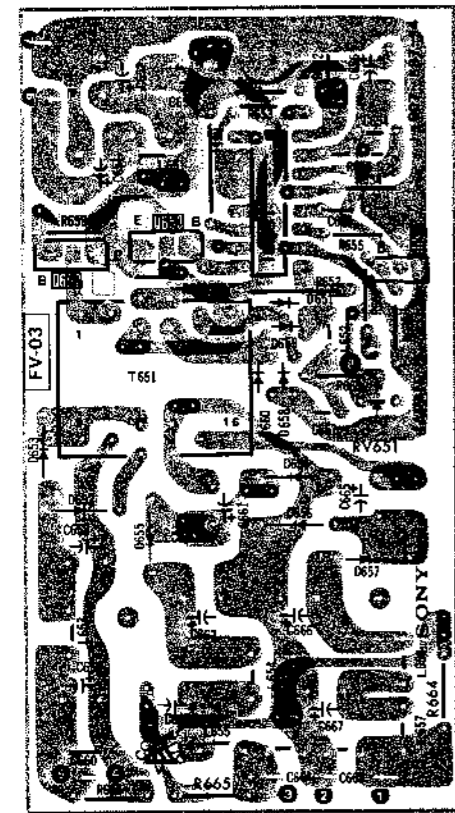
Solder Side



1-607-591-33
SOLDER SIDE
ES-192-Y08-1

FV-03 BOARD
(1-607-597-14)

Solder Side

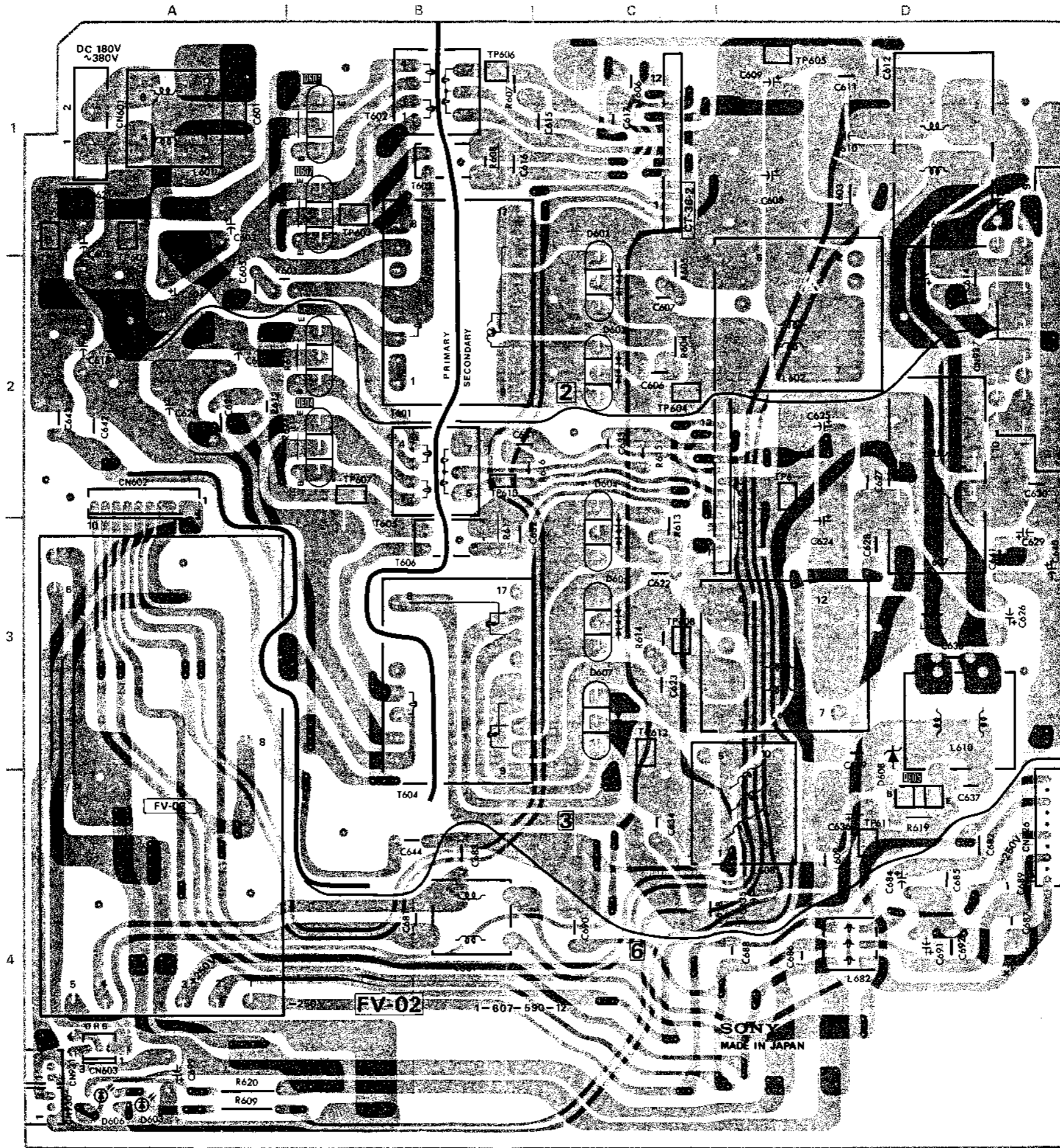


1-607-597-14
COMPONENT SIDE

1-607-597-14
SOLDER SIDE

POWER SUPPLY FV-02

FV-02 POWER SUPPLY



1-607-590-12 COMPONENT SIDE

FV-02 (1-607-590-11 & 12)

BVH-2000(J,U/C)
BVH-2000PS
BVH-2000PM
BVH-2500(J,U/C)

CN601N
1A
CN602M
2A
CN603M
4A
CN926M
4D
CN927M
2D
CN930M
4A
CN931M
4A

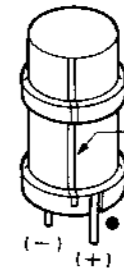
D601 2C
D602 2C
D603 4A
D604 3C
D605 3C
D606 4A
D607 3C
D608 3C

O601 1B
O602 1B
O603 2B
O604 2B
O605 4D

S601 4C
S602 4C

TP601 1A
TP602 1A
TP603 1B
TP604 2C
TP605 1D
TP606 1B
TP607 2B
TP608 3C
TP609 2D
TP610 2B
TP611 4D
TP612 3C

L603,606

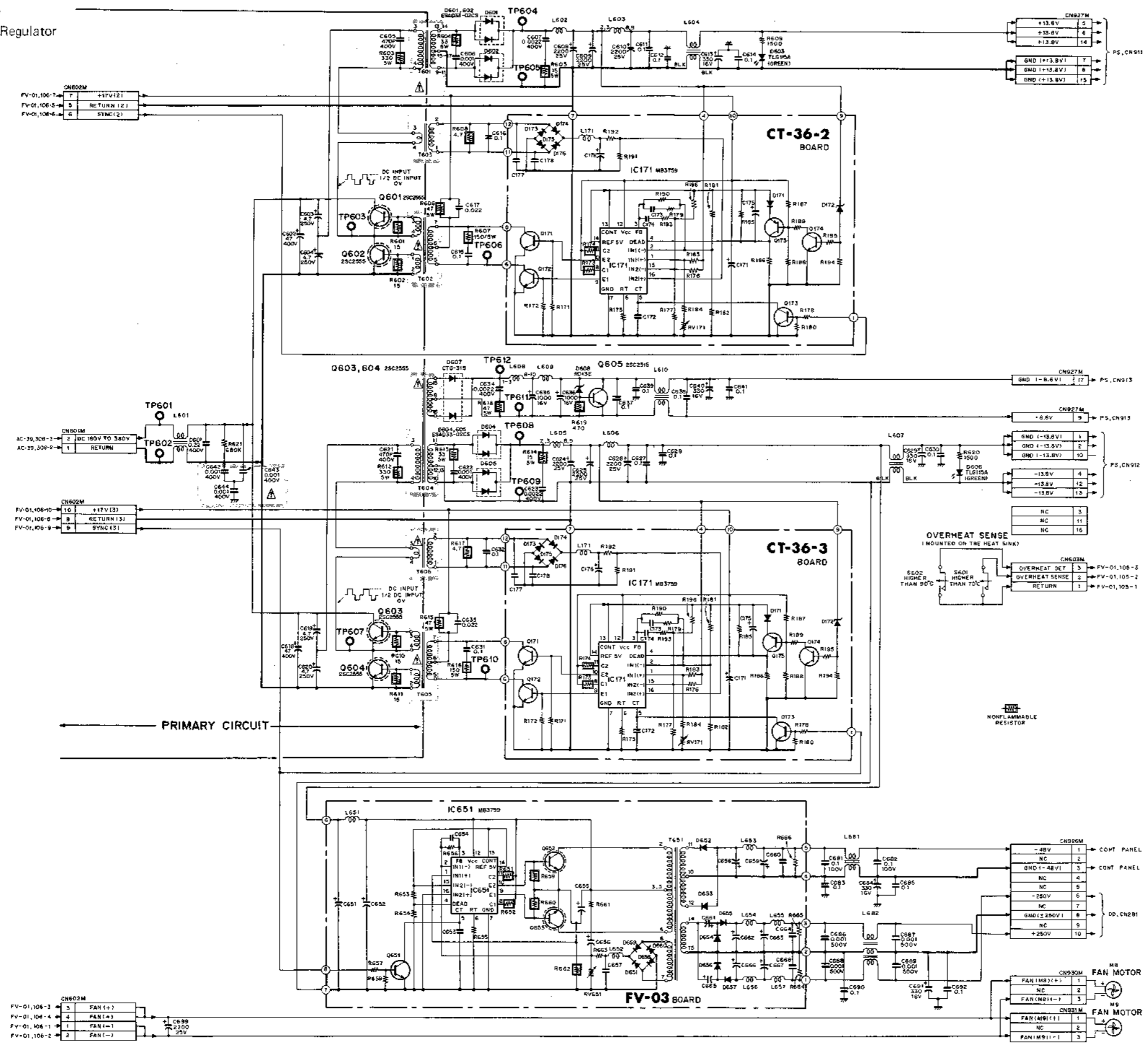


WHITE LINE

1-607-590-12 SOLDER SIDE

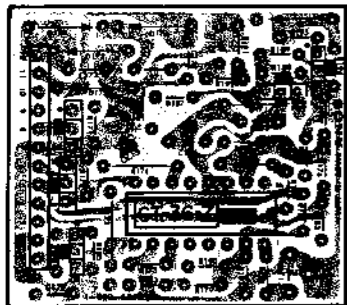
FV-02 BOARD
Switching Regulator

POWER SUPPLY FV-02 FV-02 POWER SUPPLY



FV-02 BOARD
BOARD NO. 1-607-590-11 & UP
BVH-2000 (J); #10001-
BVH-2000 (U/C); #10001-
BVH-2000PS; #10001-
BVH-2000PM; #10001-
BVH-2500(J); #10001-
BVH-2500(U/C); #10001-

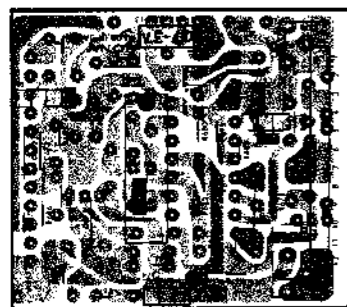
CT-36-7 BOARD
(1-607-591-53)
Solder Side



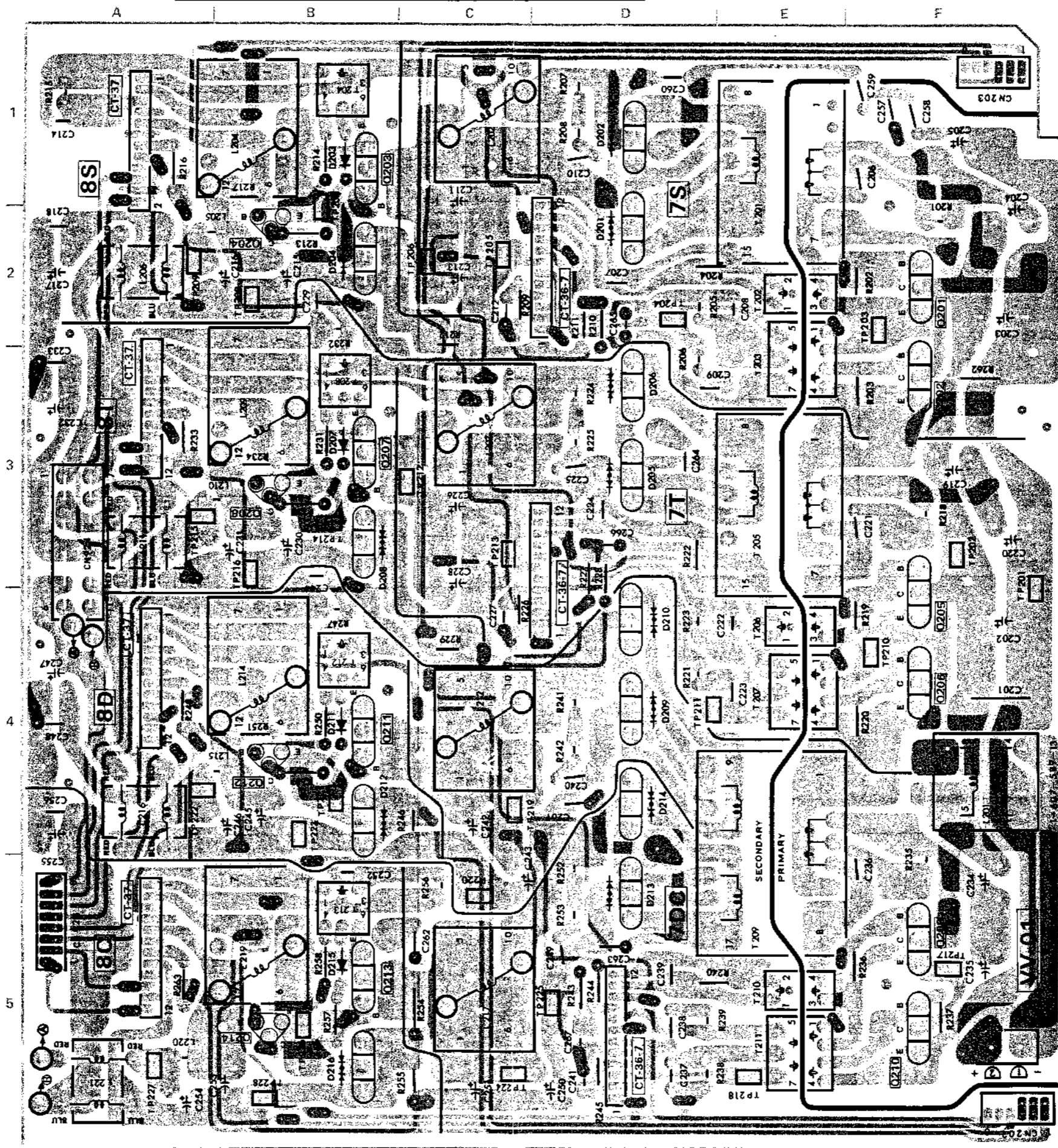
1-607-591-53
SOLDER SIDE
CT-36-7 BOARD

VV-01 BOARD
(1-607-589-13)
Solder Side

CT-37 BOARD
(1-607-592-13)
Solder Side



1-607-592-13
SOLDER SIDE
CT-37 BOARD



VV-01 (1-607-589-12 & 13)

BVH-2000 (J, U/C)
BVH-2000PS
BVH-2000PM
BVH-2500 (J, U/C)

CN201M 5F
CN202M 5F
CN203M 1F
CN924M 3A
CN925M 5A

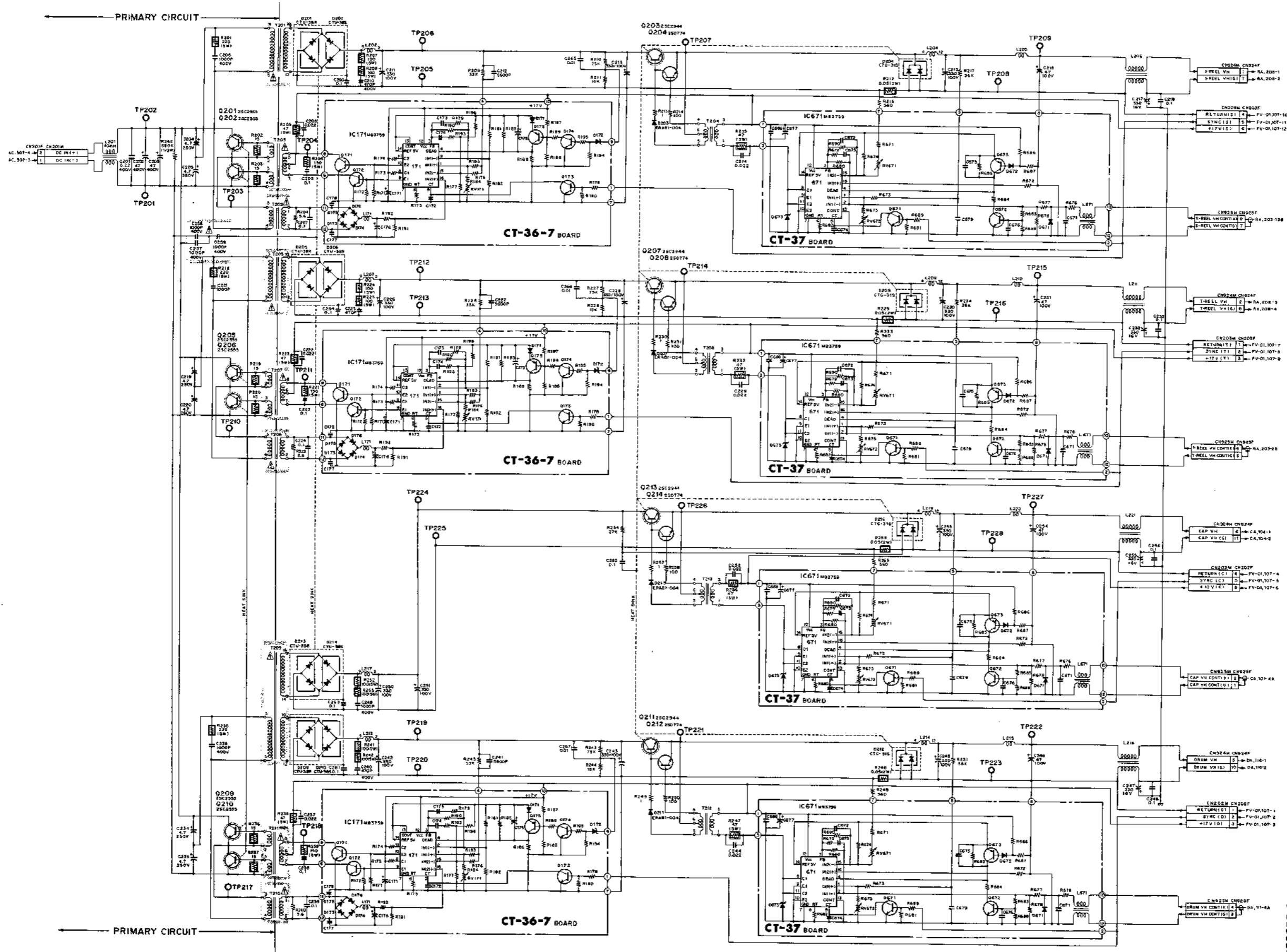
D201 20
D202 10
D203 1B
D204 3B
D205 30
D206 30
D207 3B
D208 3B
D209 4D
D210 4D
D211 4B
D212 4B
D213 5D
D214 4D
D215 5B
D216 5B

Q201 2F
Q202 3F
Q203 1B
Q204 2B
Q205 3F
Q206 4F
Q207 3B
Q208 3B
Q209 5F
Q210 5F
Q211 4B
Q212 4B
Q213 5B
Q214 5B

TP201 3F
TP202 3F
TP203 2F
TP204 2D
TP205 2C
TP206 2C
TP207 2B
TP208 2B
TP209 2A
TP210 4F
TP211 4D
TP212 3C
TP213 3C
TP214 3B
TP215 3A
TP216 3B
TP217 5F
TP218 9E
TP219 4C
TP220 9C
TP221 4B
TP222 4A
TP223 4B
TP224 9C
TP225 5D
TP226 9B
TP227 5A
TP228 9B

1-607-589-13 COMPONENT SIDE

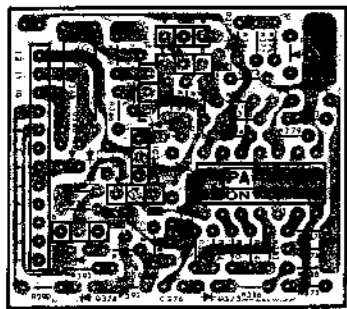
1-607-589-13 SOLDER SIDE



VV-01 BOARD
 80A FID NO. 1-607-589-11 & UP
 BVH - 2000(J); # 10001-
 BVH - 2000(L/C); # 10001-
 BVH - 2000(PS); # 10001-
 BVH - 2000(PM); # 10001-
 BVH - 2500(J); # 10001-
 BVH - 2500(L/C); # 10001-
 BVH - 2500(PS); # 10001-

PA-19 BOARD
(1-607-594-14)

Solder Side



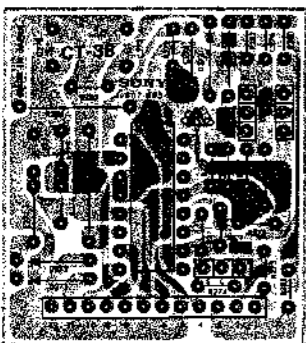
1-607-594-14
SOLDER SIDE
41-402-100-1

FV-01 BOARD
(1-607-588-12)

Solder Side

CT-38 BOARD
(1-607-593-13)

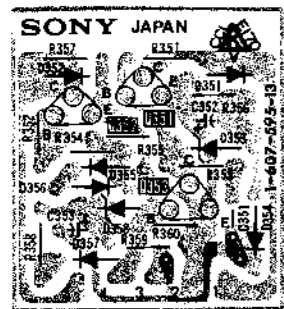
Solder Side



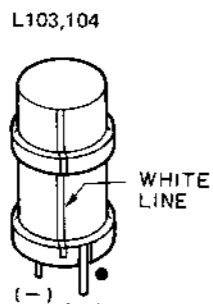
1-607-593-13
SOLDER SIDE
1-607-593-13
COMPONENT SIDE

ST-21 BOARD
(1-607-595-13)

Solder Side

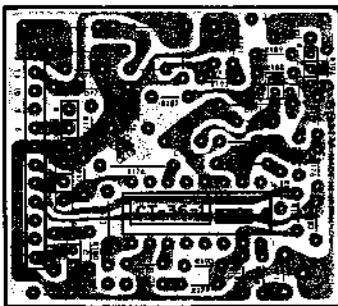


1-607-595-13
SOLDER SIDE
1-607-595-13
COMPONENT SIDE



CT-36-1 BOARD
(1-607-591-13)

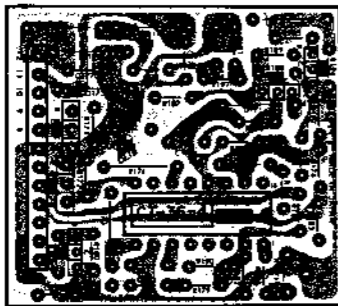
Solder Side



1-607-591-13
SOLDER SIDE
1-607-591-13

CT-36-4 BOARD
(1-607-591-43)

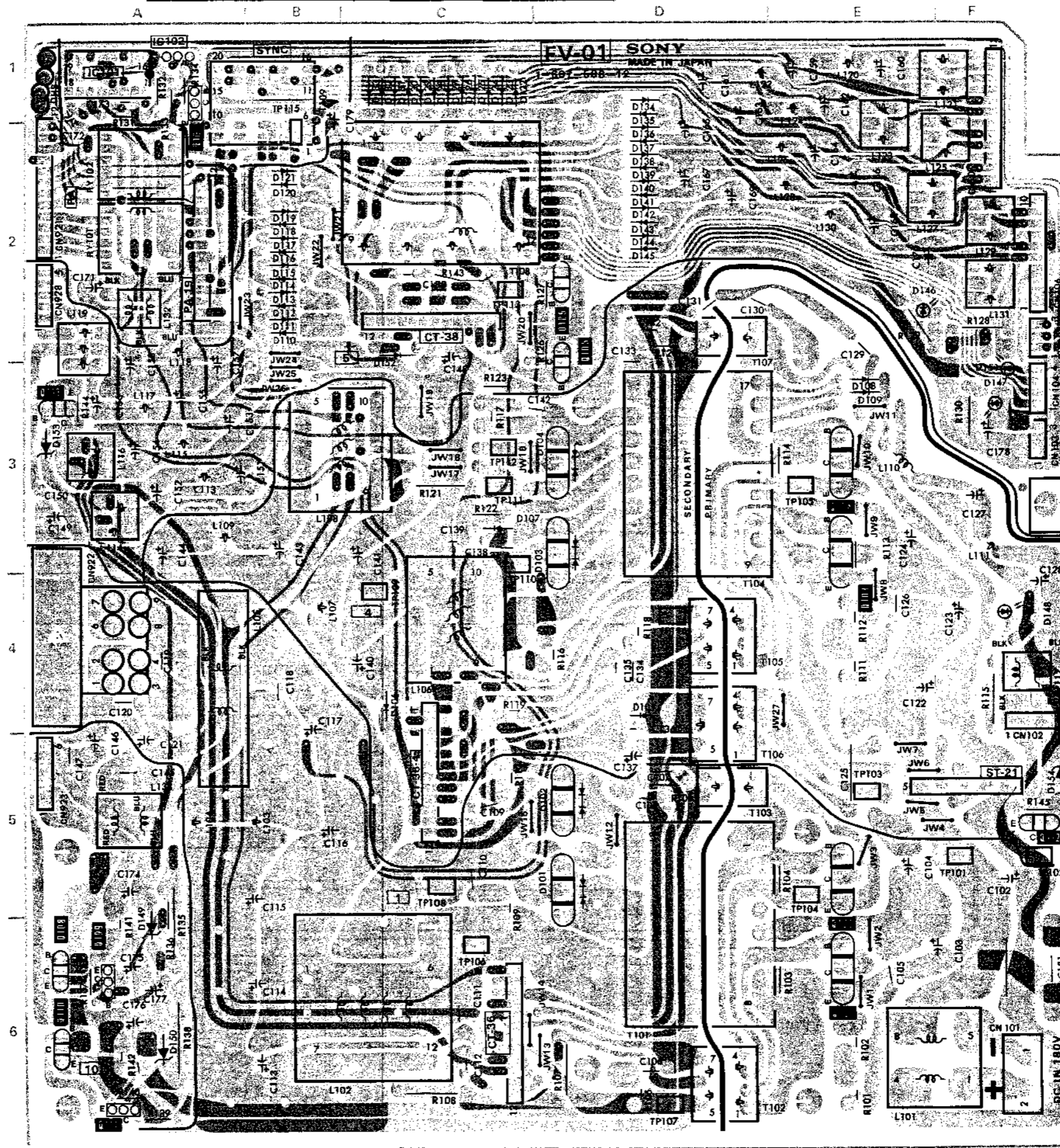
Solder Side



1-607-591-43
SOLDER SIDE
1-607-591-43

POWER SUPPLY FV-01

FV-01 POWER SUPPLY



FV-01 (1-607-588-11 & UP)

BVH-2000(J,U/C)
BVH-2000PS
BVH-2000PM
BVH-2500(J,U/C)

CN101M 6F
CN102M 4F
CN103M 3F
CN104M 3F
CN105M 2F
CN106M 2F
CN107M 2F
CN921M 2A
CN922F 4A
CN923M 5A
CN928M 2A

D101 5D
D102 5D
D103 3D
D104 3D
D105 4D
D106 4C
D107 3C
D108 3E
D109 3E
D110 2B
D111 2B
D112 2B
D113 2B
D114 2B
D115 2B
D116 2B
D117 2B
D118 2B
D119 2B
D120 2B
D121 2B
D122 1C
D123 1C
D124 1C
D125 1C
D126 1C
D127 1C
D128 1C
D129 1C
D130 1C
D131 1C
D132 1C
D133 1C
D134 10
D135 10
D136 2D
D137 2D
D138 2D
D139 2D
D140 2D
D141 2D
D142 3D
D143 3D
D144 2D
D145 2D
D146 2E
D147 3F
D148 4F
D149 6A
D150 6A
D151 3F
D152 2C
D153 3A
D154 5F

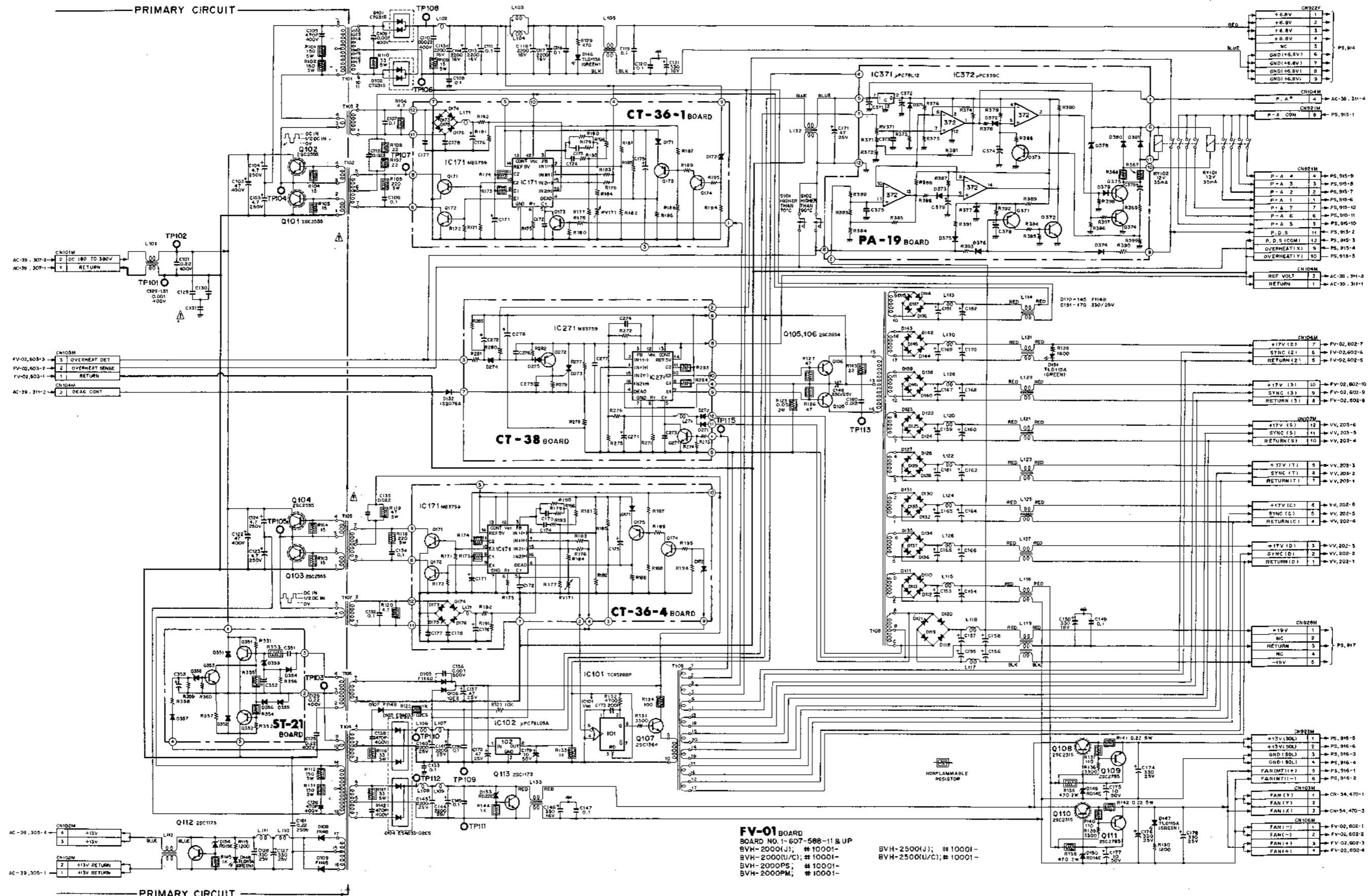
IC101 1A
IC102 1A
Q101 6E
Q102 5E
Q103 3E
Q104 3E
Q105 2D
Q106 2D
Q107 1A
Q108 6A
Q109 6A
Q110 6A
Q111 6A
Q112 5F
Q113 3A

RY101 2A
RY102 2A

S101 4D
S102 6D
TP101 5F
TP102 5F
TP103 5E
TP104 5E
TP105 3E
TP106 6C
TP107 6D
TP108 5C
TP109 4C
TP110 3C
TP111 3C
TP112 3C
TP113 2C
TP115 2B
TP116 4D

1-607-588-12 COMPONENT SIDE

1-607-593-13 SOLDER SIDE

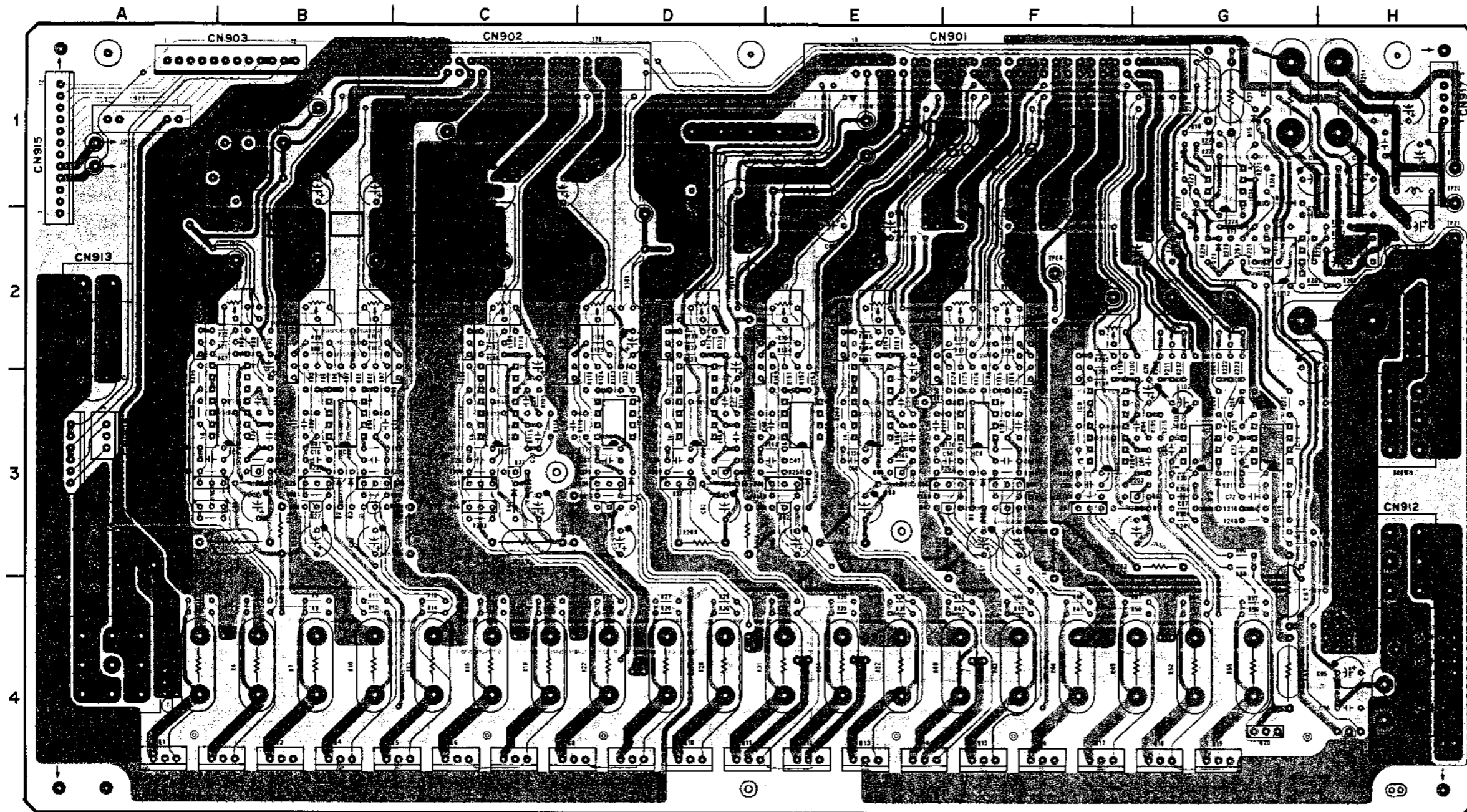


FV-01 BOARD
 BOARD NO. 1-607-568-11 & P
 BVH-2000(J); # 10001-
 BVH-2000(U/C); # 10001-
 BVH-2000(P); # 10001-
 BVH-2000(PM); # 10001-

BVH-2500(J); # 10001-
 BVH-2500(U/C); # 10001-

C-194
C-193
BVH-2000/PS/PM
C-230
C-229
BVH-2500

PS-14 BOARD (1-606-716-11)
Component Side

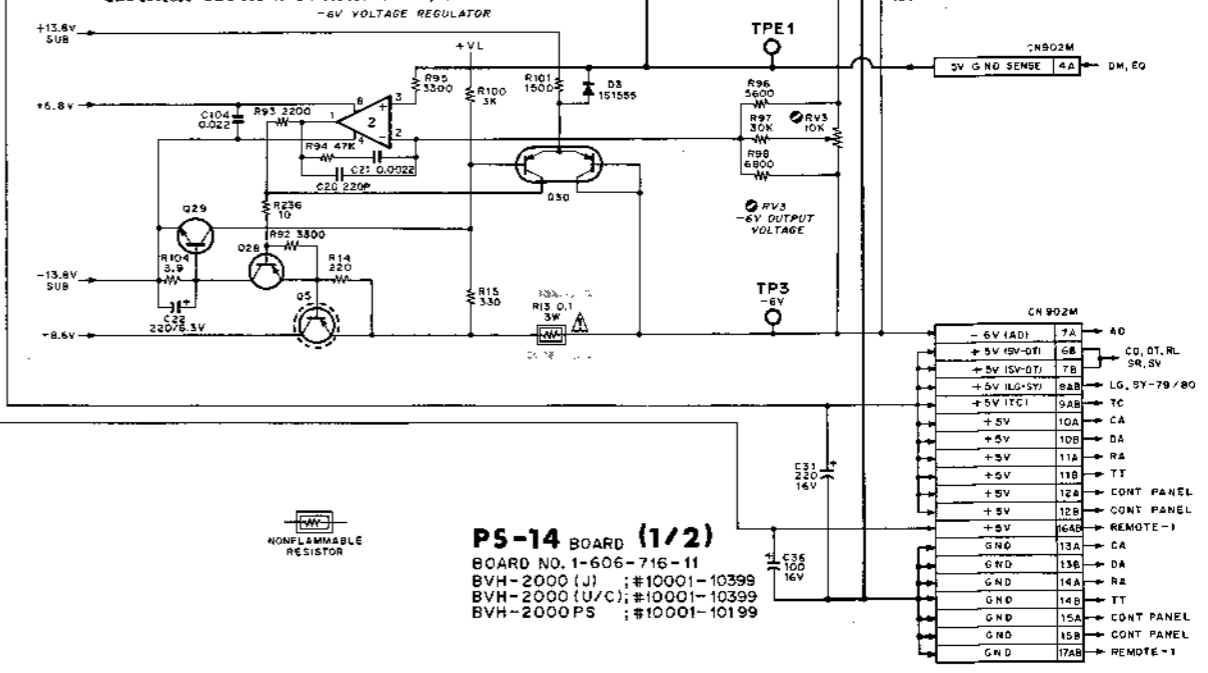
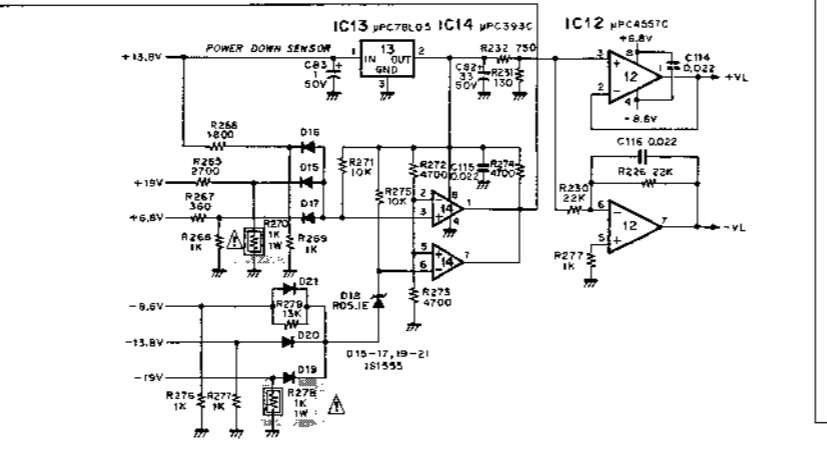
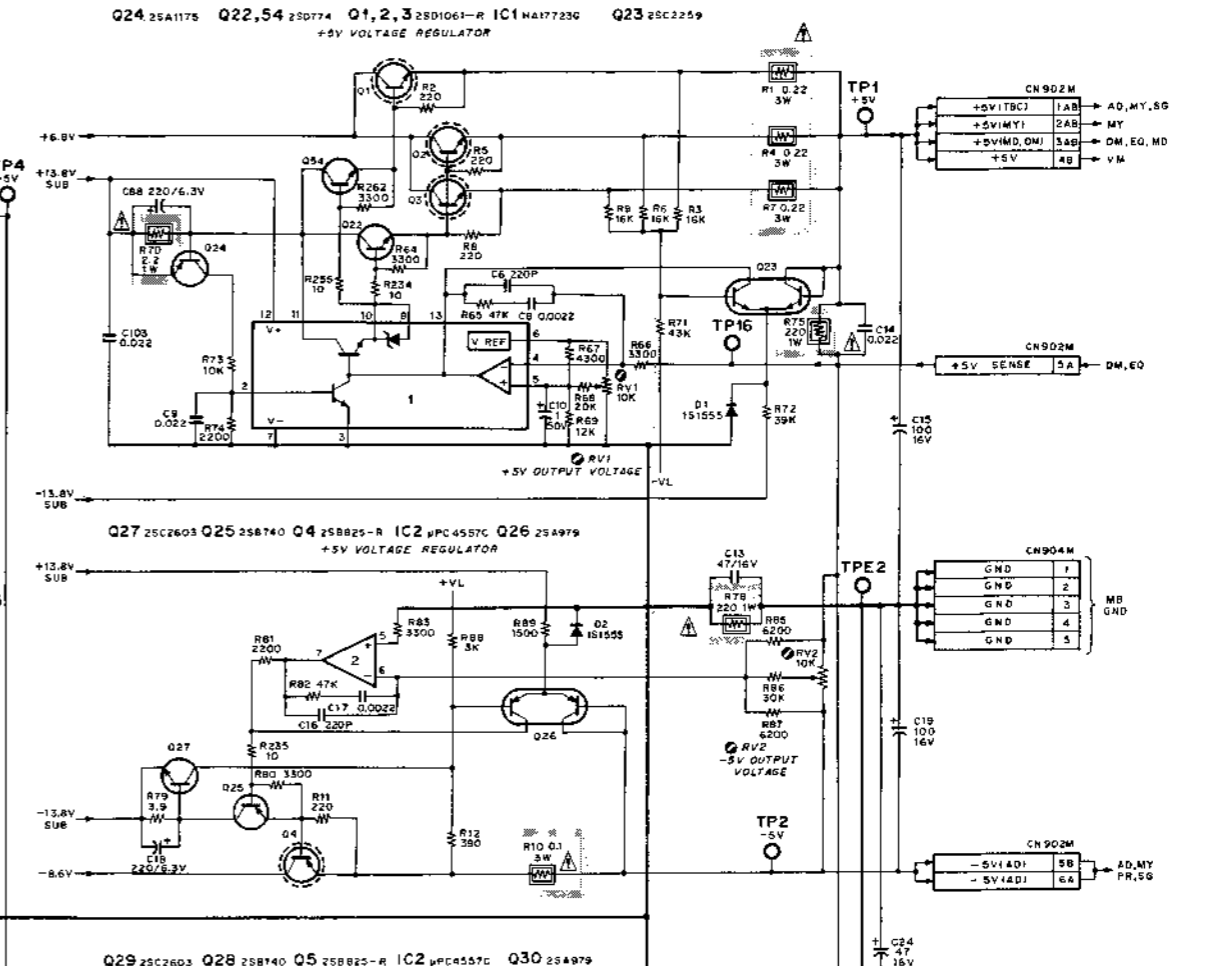
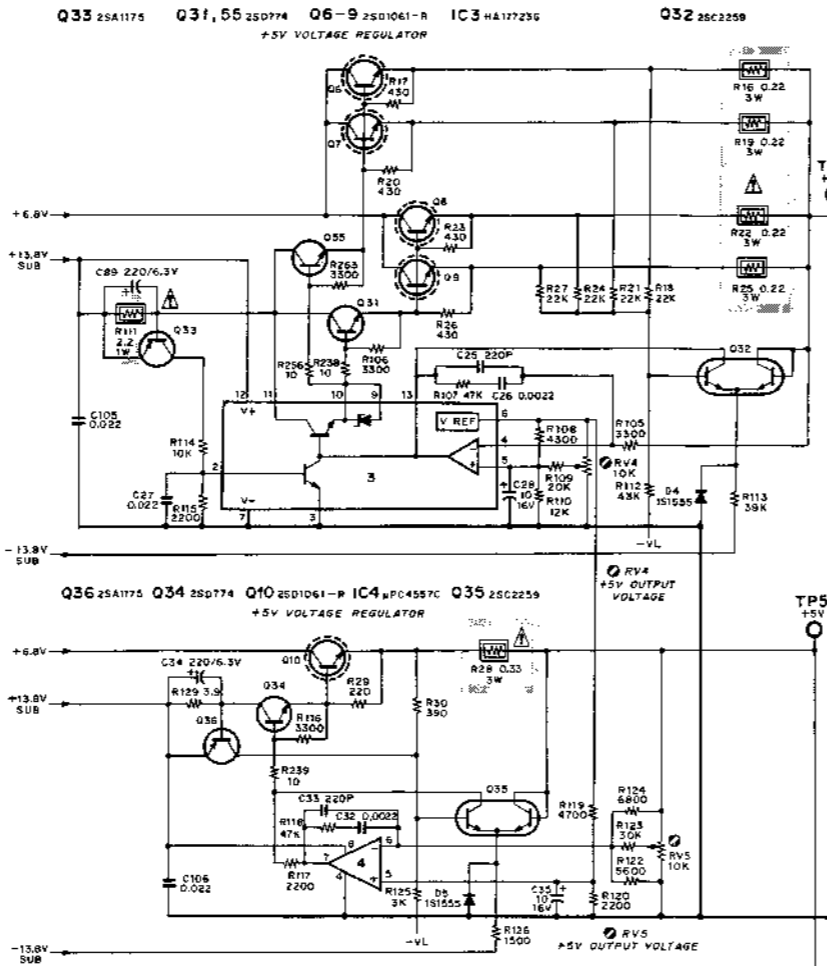
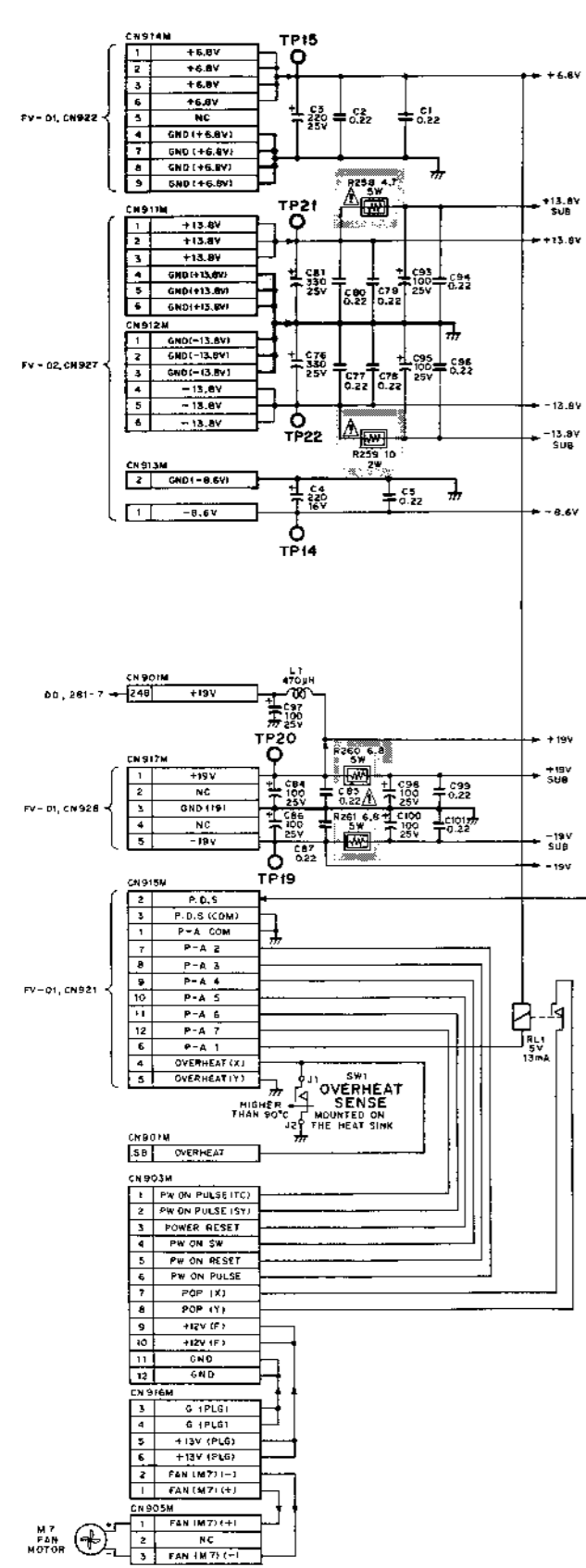


PS-14 (1-606-716-11)

BWH-2000(J,U/C)	Q32	2C
BWH-2000PS	Q33	3C
	Q34	3D
D1	Q35	2C
D2	Q36	3D
D3	Q37	3D
D4	Q38	2D
D5	Q39	3D
D6	Q40	3E
D7	Q41	2D
D8	Q42	3E
D9	Q43	2E
D10	Q44	3E
D11	Q45	3F
D12	Q46	2E
D13	Q47	3F
D14	Q48	3F
D15	Q49	2F
D16	Q50	3F
D17	Q51	3F
D18	Q52	2F
D19	Q53	3F
D20	Q54	3A
D21	Q55	3C
IC1	RL1	1A
IC2	RV1	2B
IC3	RV2	2B
IC4	RV3	2B
IC5	RV4	2C
IC6	RV5	2D
IC7	RV6	2D
IC8	RV7	2E
IC9	RV8	2E
IC10	RV9	2F
IC11	RV10	2F
IC12	RV11	2F
IC13	RV12	2G
IC14	RV13	2G
Q1	TP1	2B
Q2	TP2	2B
Q3	TP3	2B
Q4	TP4	2C
Q5	TP5	2D
Q6	TP6	2D
Q7	TP7	2E
Q8	TP8	2E
Q9	TP9	2F
Q10	TP10	2F
Q11	TP11	2F
Q12	TP12	2G
Q13	TP13	2G
Q14	TP14	4A
Q15	TP15	3A
Q16	TP16	1B
Q17	TP17	2D
Q18	TP18	1E
Q19	TP19	1H
Q20	TP20	1H
Q21	TP21	2H
Q22	TP22	4H
Q23	TPE1	1B
Q24	TPE2	1C
Q25	TPE3	1D
Q26	TPE4	2D
Q27	TPE5	1E
Q28	TPE6	2F
Q29		
Q30		
Q31		

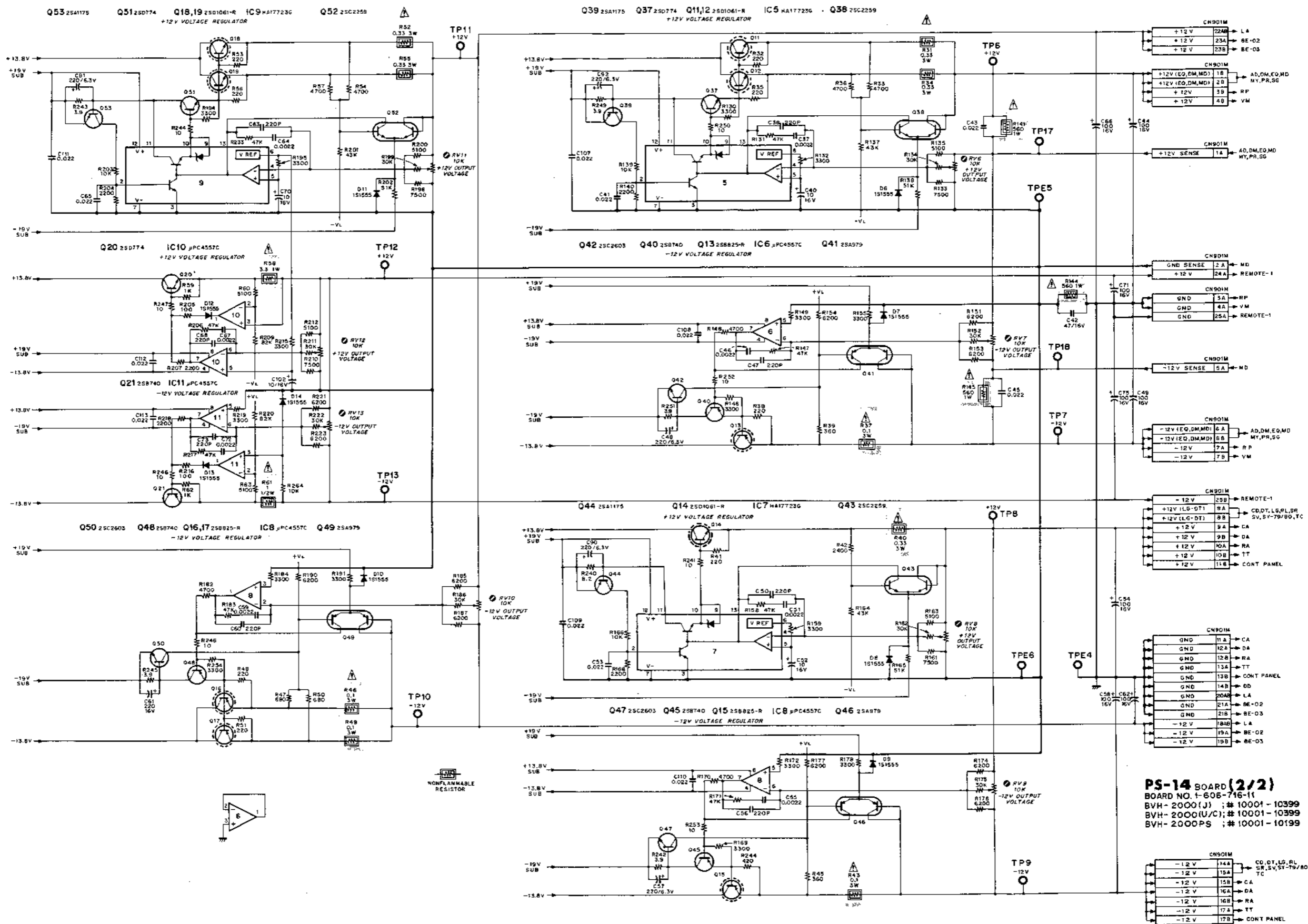
1-606-716-11 COMPONENT SIDE

1-606-716-11



PS-14 BOARD (1/2)
 BOARD NO. 1-606-716-11
 BVH-2000 (J) ; #10001-10399
 BVH-2000 (U/C) ; #10001-10399
 BVH-2000 PS ; #10001-10199

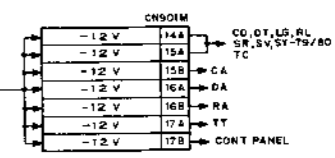
PS-14 BOARD (2/2)
Series Regulator



C-198(4/9)

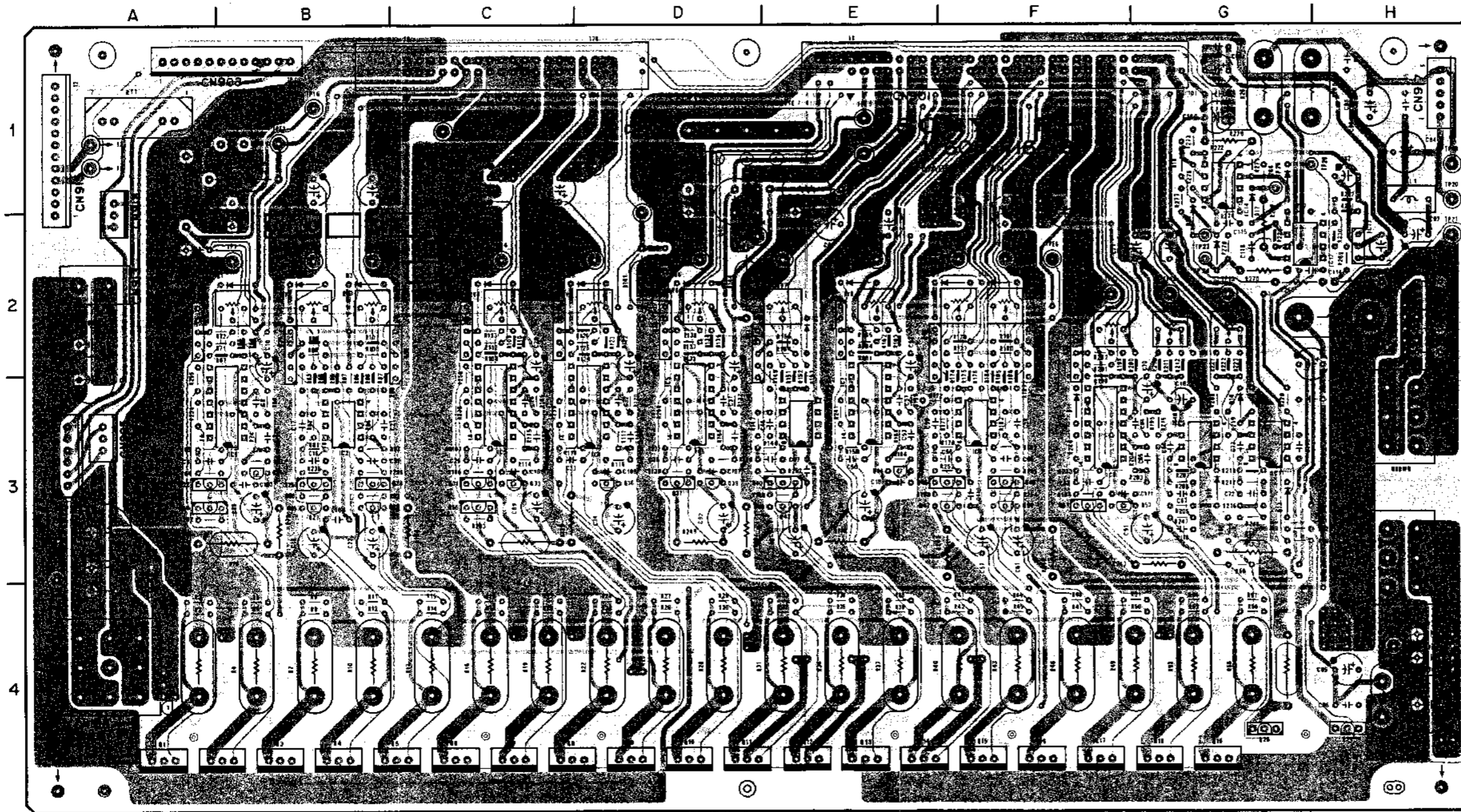
C-198(5/9)

PS-14 BOARD (2/2)
 BOARD NO. 1-606-716-11
 BVH-2000(J); # 10001-10399
 BVH-2000(U/C); # 10001-10399
 BVH-2000(PS); # 10001-10199



PS-14 BOARD (1-606-716-13)

Component Side



PS-14 (1-606-716-13 & UP)

BVH-2000(J,U/C)	Q20	4G	
BVH-2000PS	Q21	4H	
BVH-2000PM	Q22	3A	
BVH-2500(J,U/C)	Q23	2A	
	Q24	3B	
CN901M	Q25	3B	
1F	Q26	2B	
CN902M	Q27	3B	
1C	Q28	3B	
CN903M	Q29	3B	
1B	Q30	2C	
CN904M	Q31	3C	
1D	Q32	2C	
CN905M	Q33	3C	
3A	Q35	2C	
CN911M	Q36	3D	
3H	Q37	3D	
CN912M	Q38	2D	
3H	Q39	3D	
CN913M	Q40	3E	
2A	Q41	2D	
CN914M	Q42	3E	
4A	Q43	2E	
CN915M	Q44	3E	
1A	Q45	3F	
CN916M	Q46	2E	
3A	Q47	3F	
CN917M	Q48	3F	
1H	Q49	2F	
	Q50	3F	
	Q51	3F	
D1	ZB	Q52	2F
D2	ZB	Q53	3F
D3	ZB	Q54	3A
D4	2C	Q55	3C
D5	2D		
D6	2D		
D7	2E	Ry1	1A
D8	2E		
D9	2F	Rv1	2B
D10	2F	Rv2	2B
D11	3F	Rv3	2B
D12	3G	Rv4	2C
D13	3G	Rv5	2C
D14	3G	Rv6	2D
D15	3G	Rv7	2E
D16	3G	Rv8	2E
D17	3G	Rv9	2F
D18	3G	Rv10	2F
D19	3G	Rv11	2F
D20	3G	Rv12	2G
D21	3G	Rv13	2G
IC1	3B		
IC2	3B	TP1	2B
IC3	3C	TP2	2B
IC4	3D	TP3	2B
IC5	3D	TP4	2C
IC6	3E	TP5	2D
IC7	3E	TP6	2D
IC8	3F	TP7	2E
IC9	3F	TP8	2E
IC10	3G	TP9	2F
IC11	3G	TP10	2F
IC12	2H	TP11	2F
IC13	2H	TP12	2G
IC14	1B	TP13	2G
		TP14	3A
		TP15	3A
Q1	4A	TP16	1B
Q2	4B	TP17	2D
Q3	4B	TP18	1E
Q4	4B	TP19	1H
Q5	4C	TP20	1H
Q6	4C	TP21	2H
Q7	4C	TP22	4H
Q8	4C		
Q9	4D		
Q10	4D		
Q11	4D	TPE1	1B
Q12	4E	TPE2	1C
Q13	4E	TPE3	1D
Q14	4E	TPE4	2D
Q15	4F	TPE5	1E
Q16	4F	TPE6	2F
Q17	4F		
Q18	4G		
Q19	4G		

1-606-716-13 COMPONENT SIDE

1-606-716-13

BVH-2500 C-231 BVH-2000/PS C-198(6/9) C-198(7/9) C-232

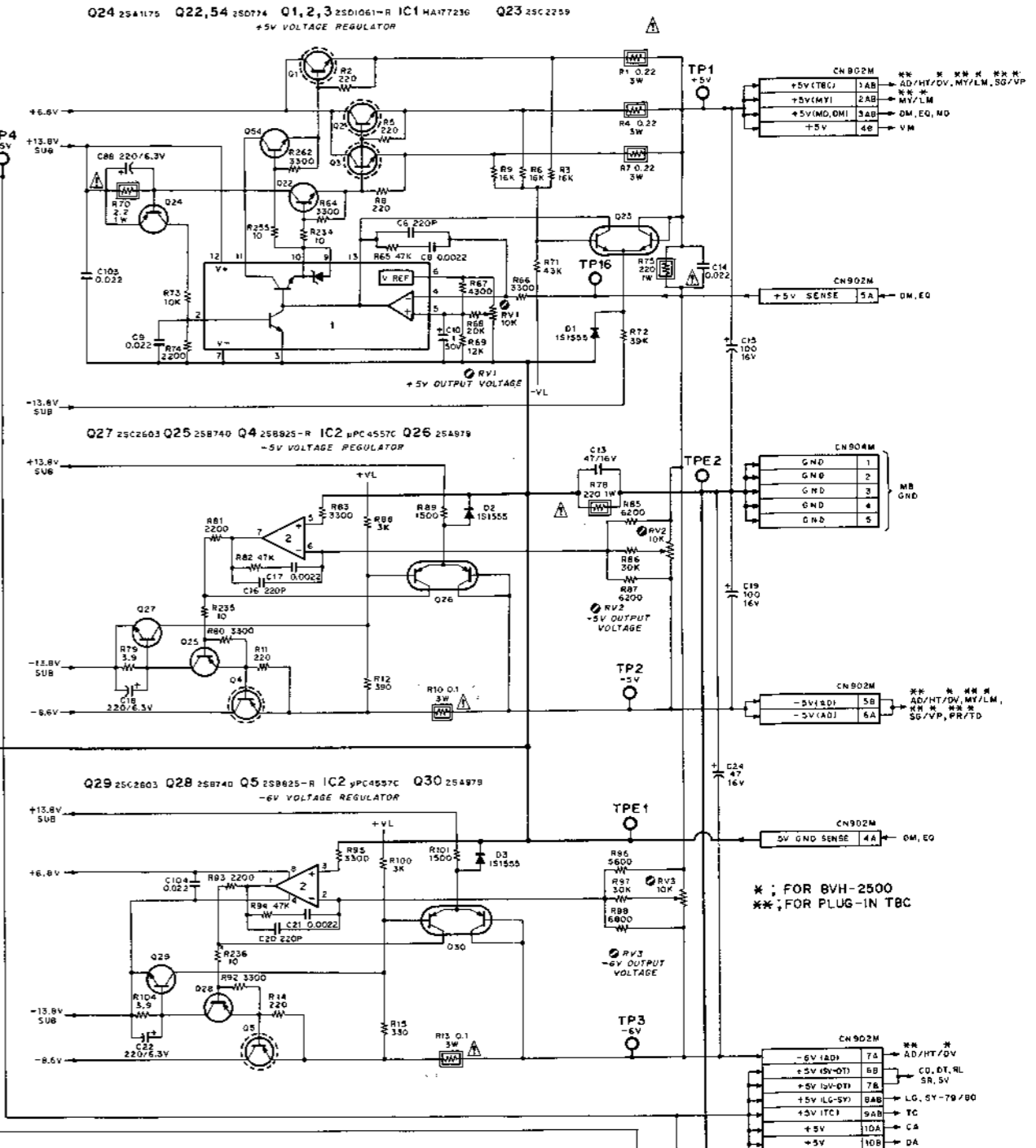
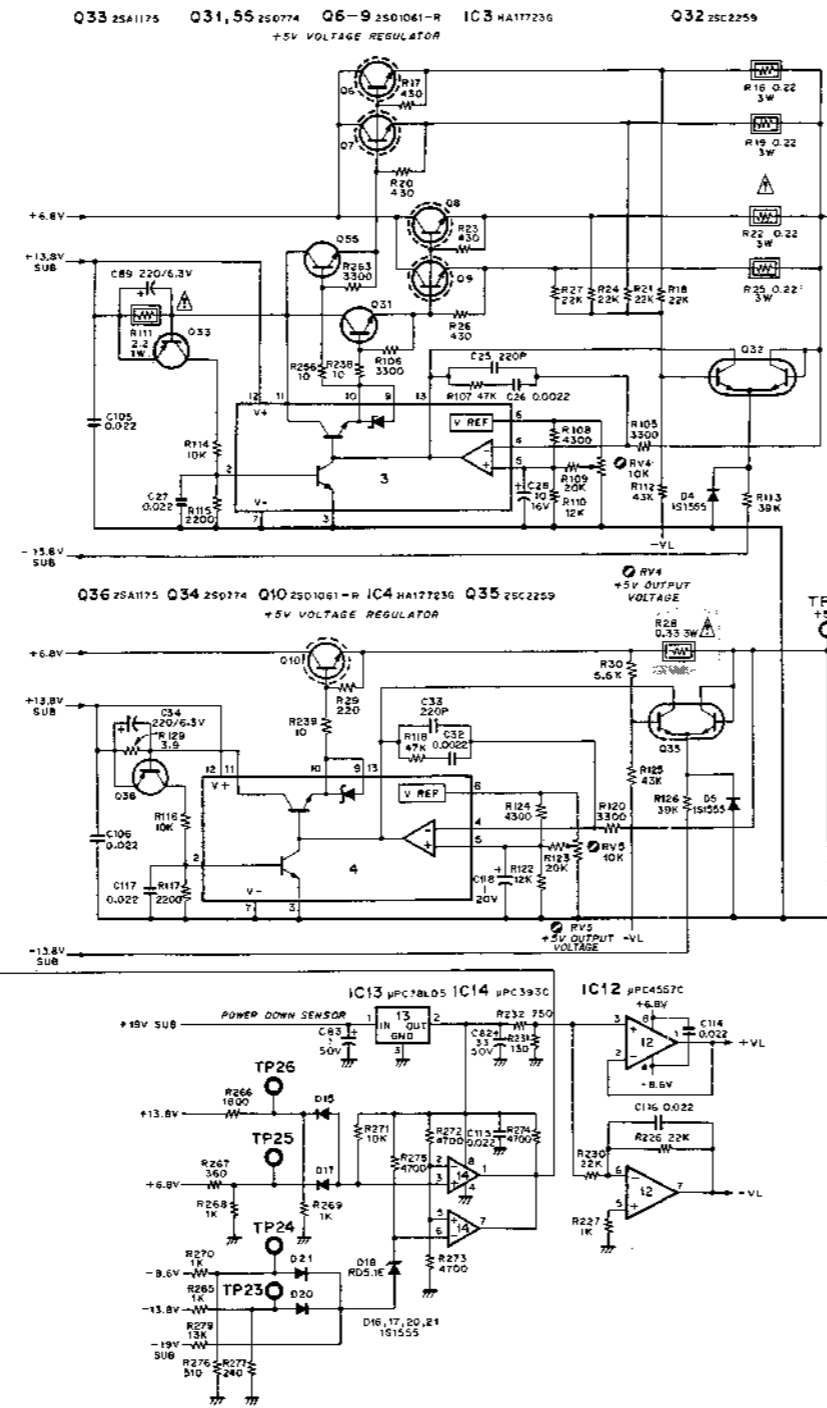
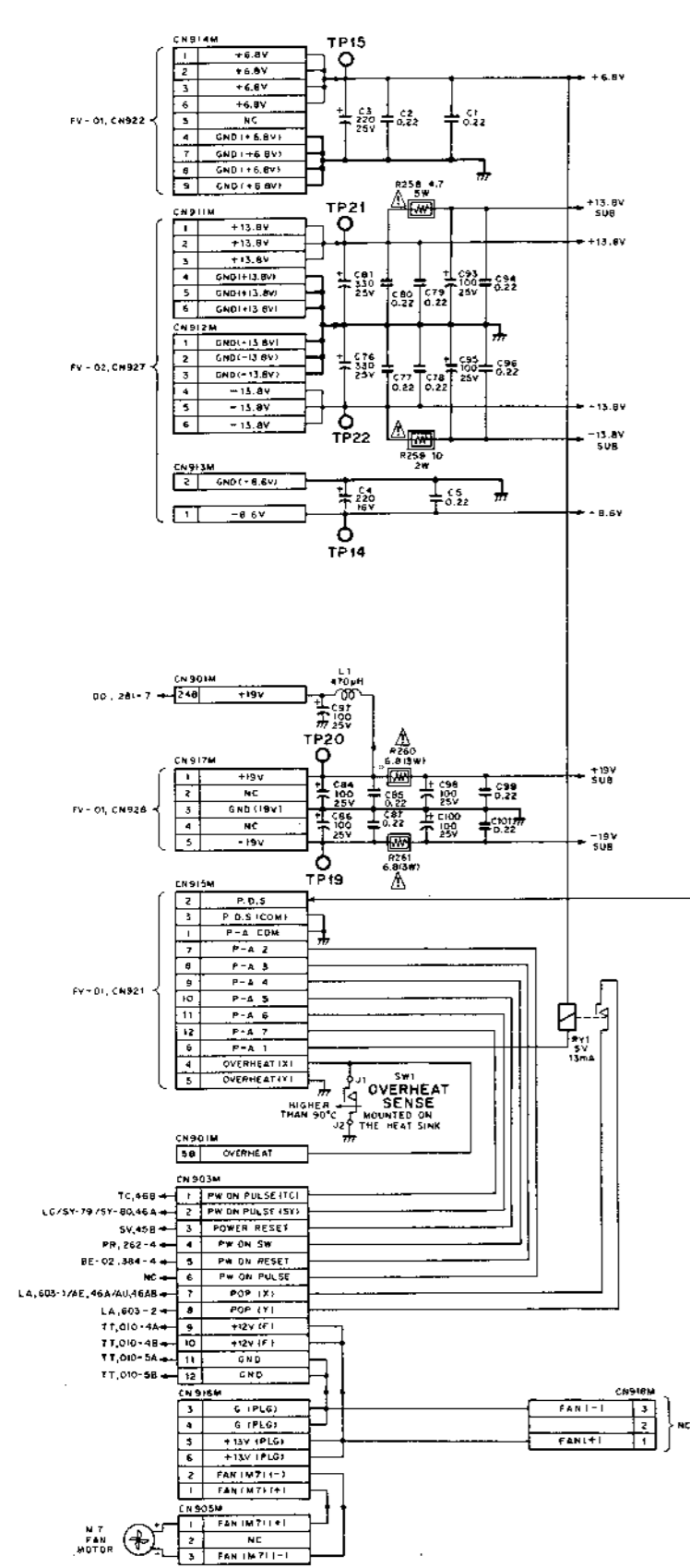
C-198(9/9)

BVH-2000/PS

C-234

C-233

BVH-2500

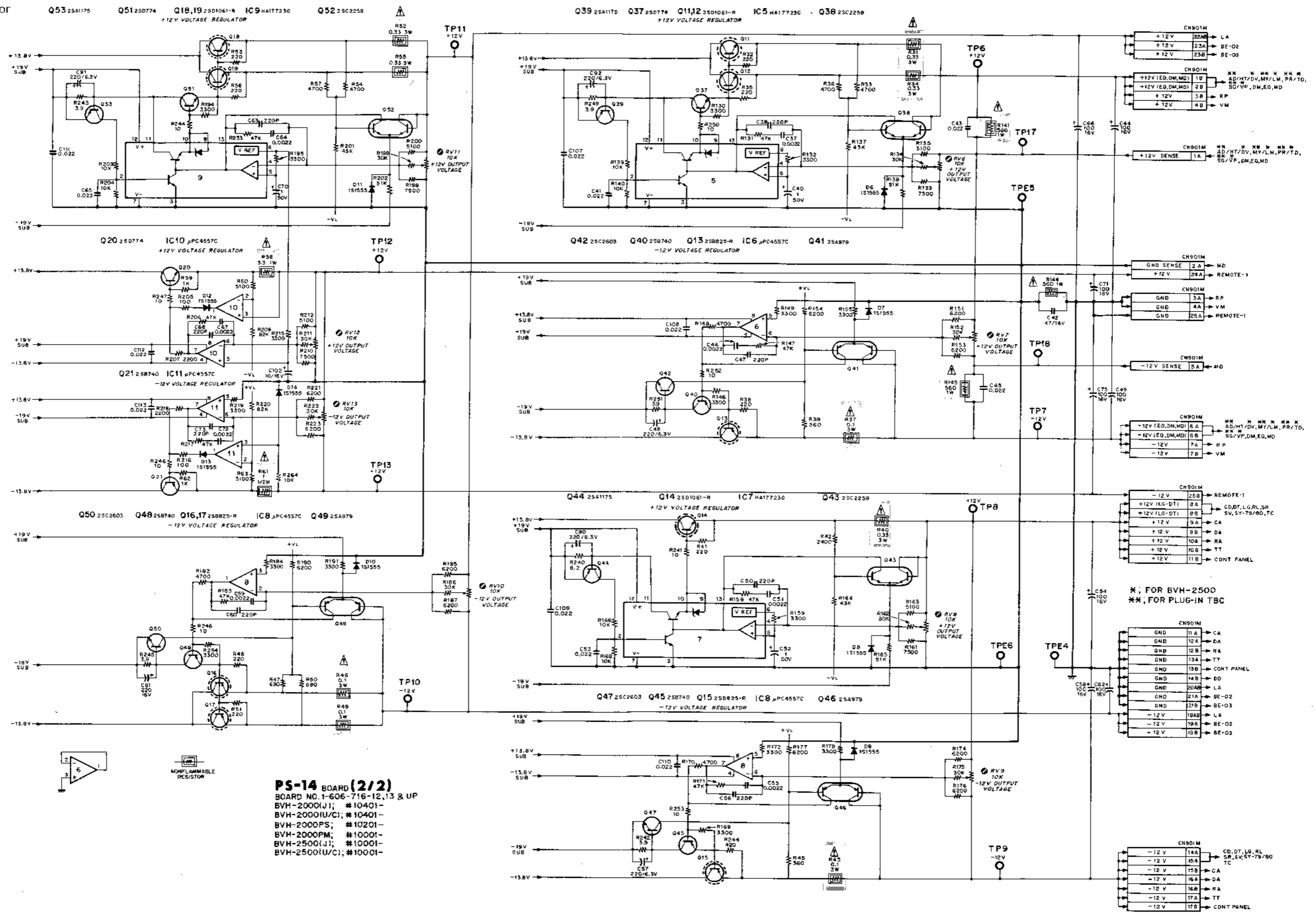


* : FOR BVH-2500
** : FOR PLUG-IN TBC

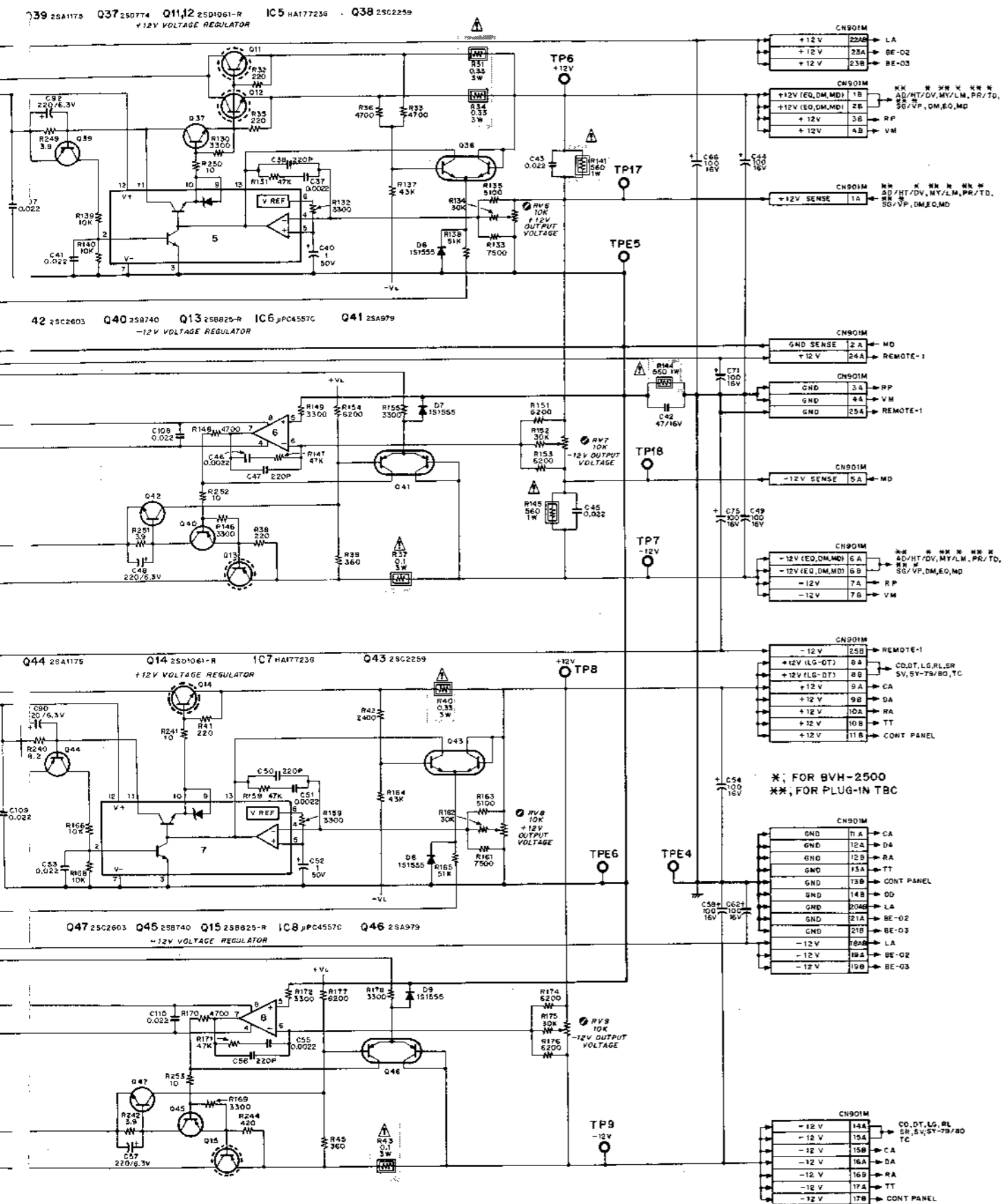
PS-14 BOARD (1/2)
 BOARD NO. 1-606-716-12, 13 & UP
 BVH-2000(J); #10401-
 BVH-2000(U/C); #10401-
 BVH-2000(PS); #10201-
 BVH-2000(PM); #10001-
 BVH-2500(J); #10001-
 BVH-2500(U/C); #10001-

PS-14 BOARD (2/2)

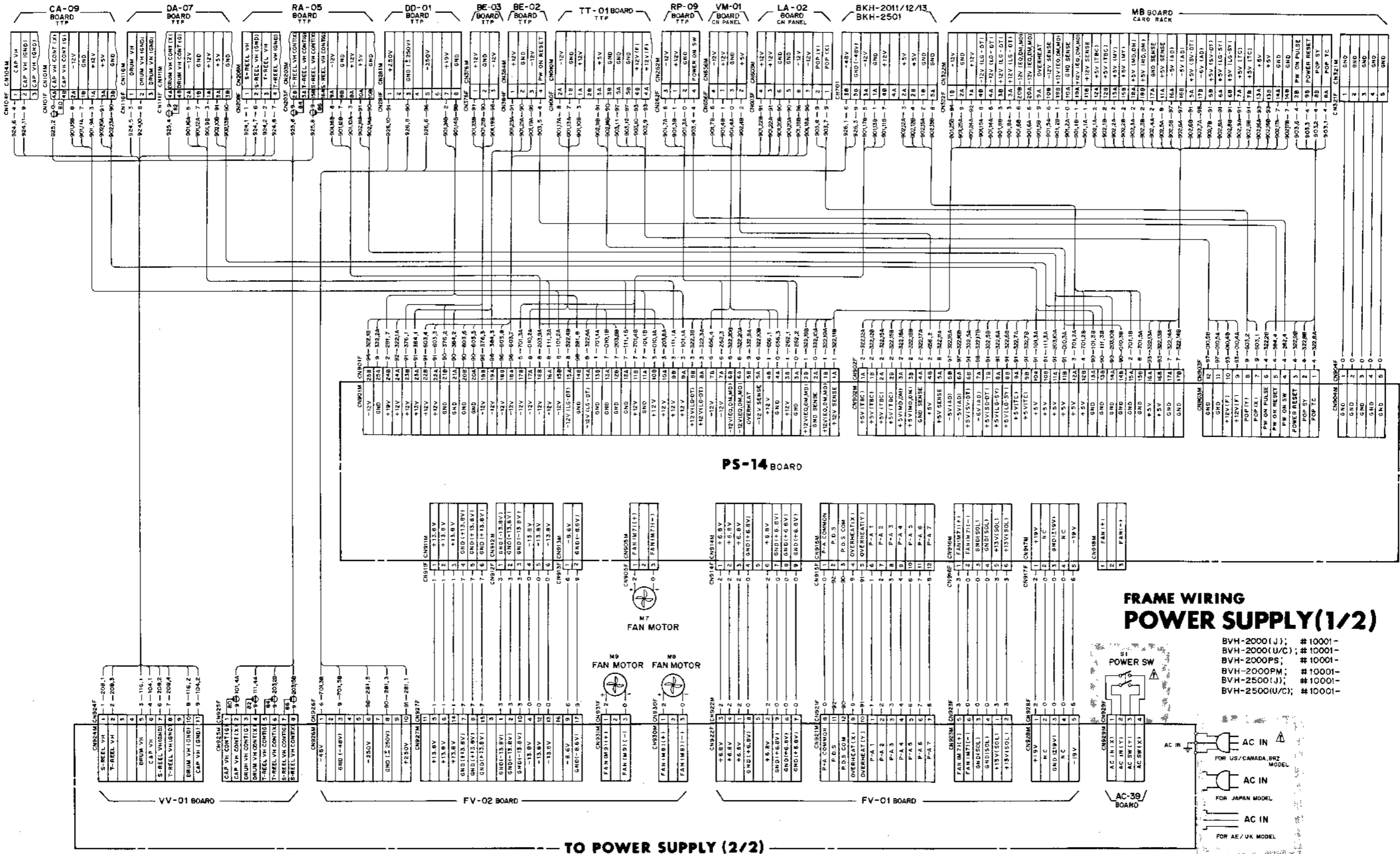
Series Regulator



PS-14 BOARD (2/2)
 BOARD NO. 1-606-716-12,13 & UP
 BVH-2000(J); *10401-
 BVH-2000(U/C); *10401-
 BVH-2000PS; *10201-
 BVH-2000PM; *10001-
 BVH-2500(J); *10001-
 BVH-2500(U/C); *10001-

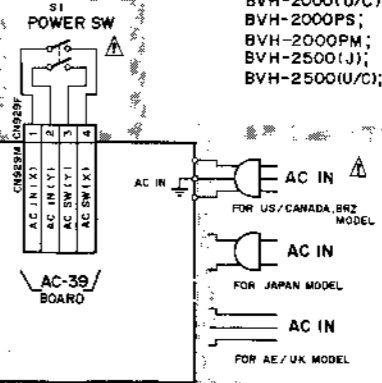


FRAME WIRING (1/2) ; POWER SUPPLY



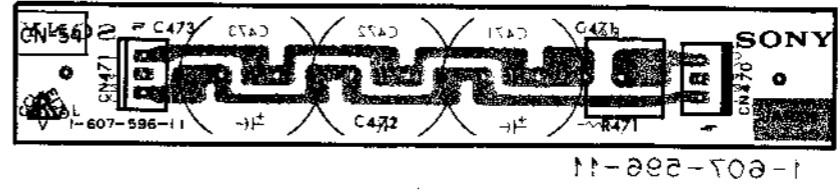
FRAME WIRING POWER SUPPLY(1/2)

- BVH-2000(J); #10001-
- BVH-2000(U/C); #10001-
- BVH-2000PS; #10001-
- BVH-2000PM; #10001-
- BVH-2500(J); #10001-
- BVH-2500(U/C); #10001-



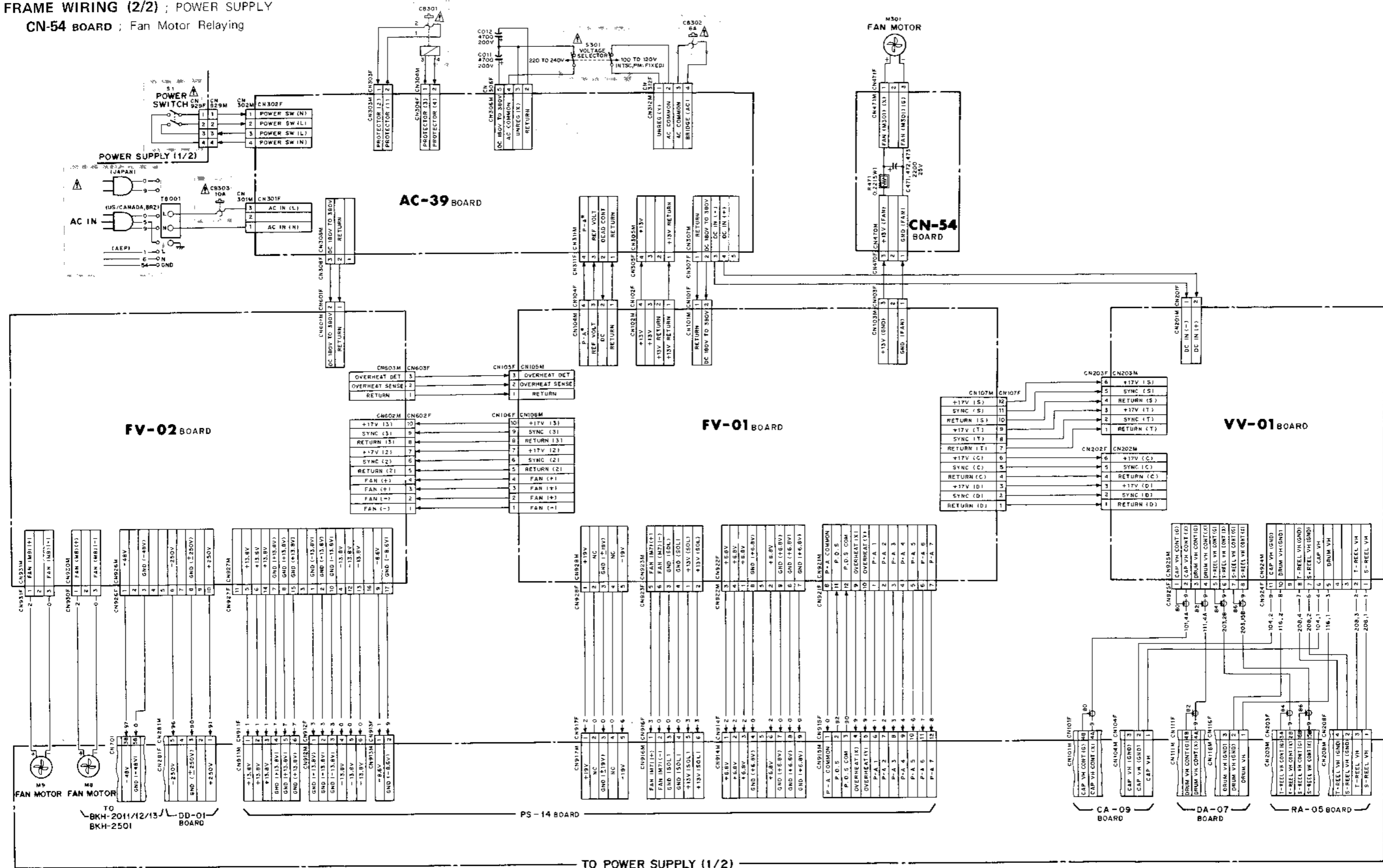
TO POWER SUPPLY (2/2)

CN-54 BOARD (1-607-596-11)
Component Side



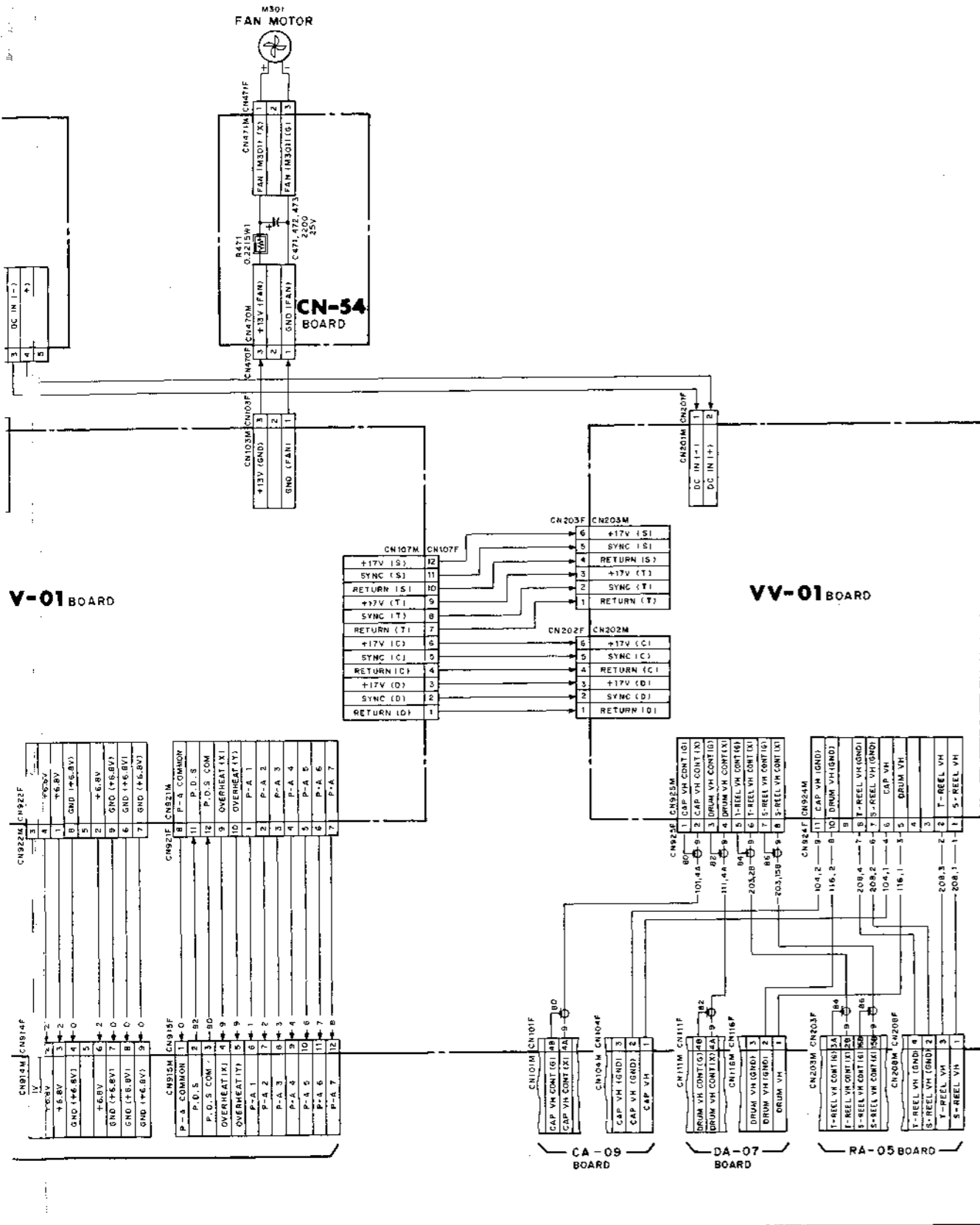
BVH-2500 C-212 C-211 C-210 C-209 C-248 C-249 C-247 BVH-2500

FRAME WIRING (2/2) ; POWER SUPPLY CN-54 BOARD ; Fan Motor Relaying



FRAME WIRING POWER SUPPLY (2/2)

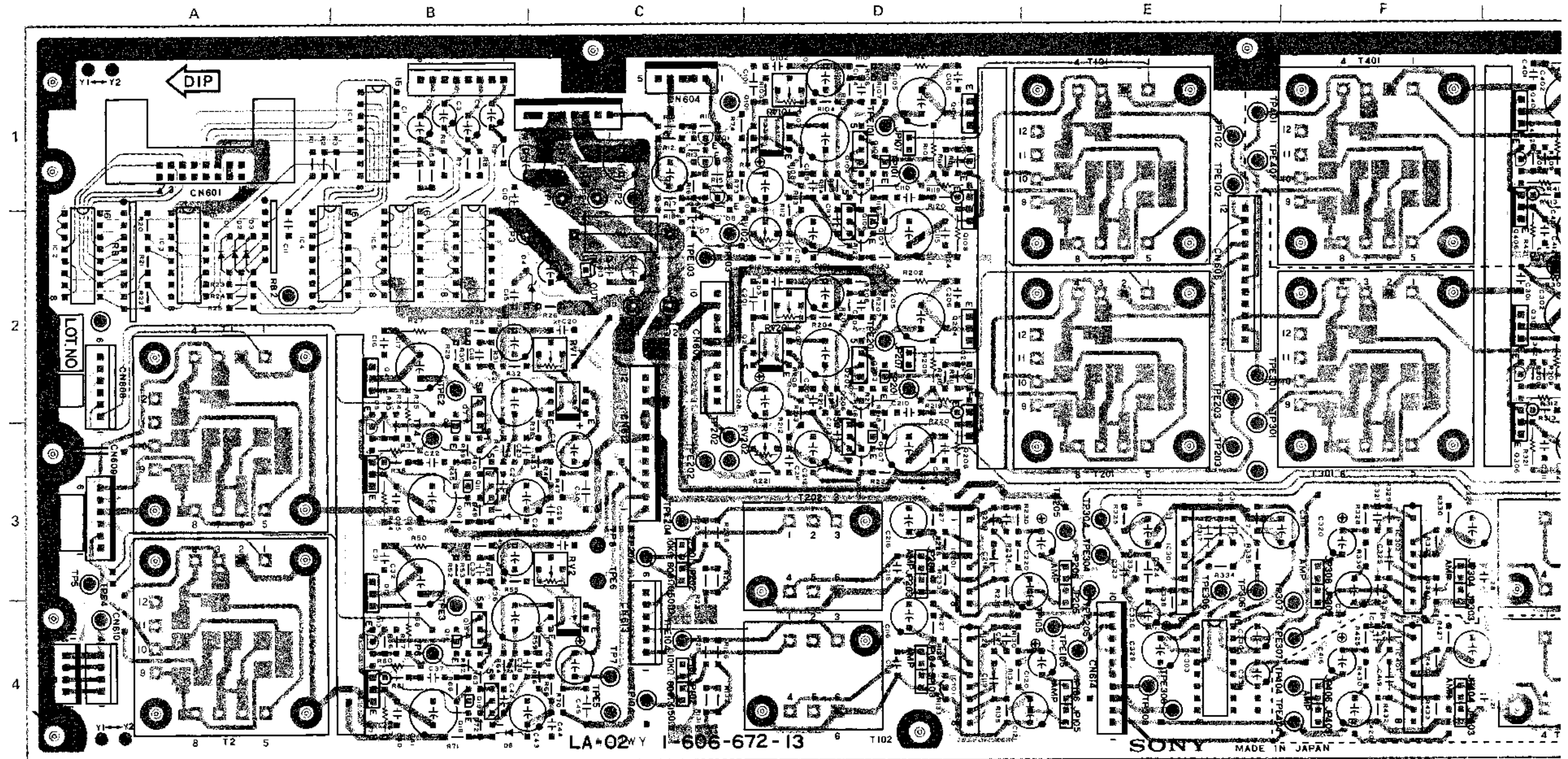
- BVH-2000(J); #10001-
- BVH-2000(U/C); #10001-
- BVH-2000PS; #10001-
- BVH-2000PM; #10001-
- BVH-2500(J); #10001-
- BVH-2500(U/C); #10001-



**FRAME WIRING
POWER SUPPLY (2/2)**

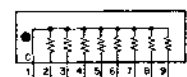
- BVH -2000(J); #10001 -
- BVH -2000(U/C); #10001 -
- BVH -2000PS; #10001 -
- BVH -2000PM; #10001 -
- BVH -2500(J); #10001 -
- BVH -2500(U/C); #10001 -

LA-02 BOARD (1-606-672-13)
Component Side

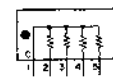


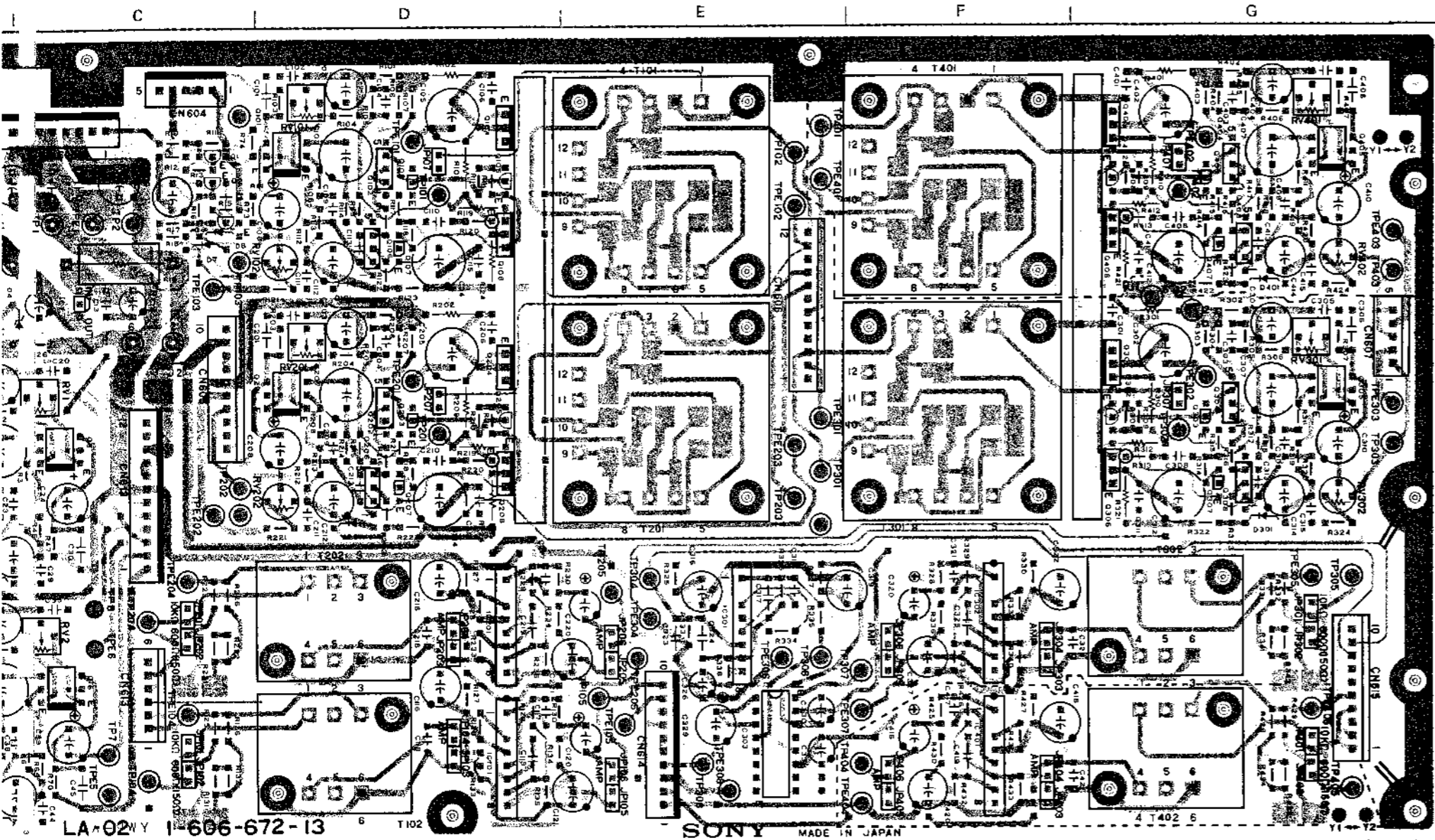
1-606-672-13 COMPONENT SIDE

RB1



RB2





LA-02 (1-606-672-12 & 1P)

BVH-2000(J,U/C)	Q201 2D
BVH-2000PS	Q202 2D
(00/02 MODEL)	Q203 2D
	Q204 2D
	Q205 2D
BVH-2000PM	Q206 3D
BVH-2500(J,U/C)	Q207 3D
	Q208 3D
CN601M 1A	Q301 2G
CN602M 1B	Q302 2G
CN603M 1C	Q303 2G
CN604M 1C	Q304 2G
CN605M 2C	Q305 2G
CN606M 2E	Q306 3G
CN607M 2G	Q307 3G
CN608M 3A	Q308 3G
CN609M 3A	
CN610M 4A	R61 2A
CN611M 4A	R62 2A
CN612M 3C	
CN613M 4C	RV1 2C
CN614M 4E	RV2 3C
CN615M 4G	RV101 1D
	RV102 2D
	RV201 2D
	RV202 3D
	RV301 2G
	RV302 3G
	TP1 1C
	TP2 1C
	TP3 2B
	TP4 3B
	TP5 4A
	TP6 4B
	TP7 4C
	TP8 3C
	TP9 3B
	TP10 1D
	TP101 1E
	TP102 2E
	TP103 2C
	TP104 4C
	TP105 4E
	TP106 4A
	TP107 3D
	TP108 1G
	Q101 2D
	Q102 2D
	Q103 1D
	Q104 1D
	Q105 1D
	Q106 2D
	Q107 2D
	Q108 2D
	IC1 1B
	IC2 2A
	IC3 2A
	IC4 2B
	IC5 2B
	IC6 2B
	IC7 2C
	IC8 2B
	IC9 2B
	IC10 2C
	IC101 4D
	IC201 3D
	IC301 3E
	IC302 3F
	IC303 4E
	JP101 4C
	JP102 4C
	JP103 4D
	JP104 4D
	JP105 4E
	JP106 4E
	JP107 1D
	JP201 3C
	JP202 4C
	JP203 4D
	JP204 3D
	JP205 4E
	JP206 3E
	JP207 2D
	JP301 3G
	JP302 3G
	JP303 4F
	JP304 3F
	JP305 4F
	JP306 3F
	JP307 2G
	JP308 4E
	TPE1 1C
	TPE2 3B
	TPE3 4B
	TPE4 4A
	TPE5 4C
	TPE6 4C
	TPE101 1D
	TPE102 1E
	TPE103 2C
	TPE104 4C
	TPE105 4E
	TPE106 4A
	TPE107 3D
	TPE108 1G
	RV1 2C
	RV2 3C
	RV101 1D
	RV102 2D
	RV201 2D
	RV202 3D
	RV301 2E
	RV302 3E
	RV401 1G
	RV402 2G

LA-02 (1-606-672-12 & 1P)

BVH-2000PS	Q1 1C
(04 MODEL)	Q2 1C
	Q3 1C
CN601M 1A	Q4 2B
CN602M 1B	Q5 3B
CN603M 1C	Q6 3B
CN604M 1C	Q7 3B
CN605M 2C	Q8 3C
CN606M 2E	Q9 3B
CN607M 2G	Q10 3B
CN608M 3A	Q11 3B
CN609M 3A	Q12 4B
CN610M 4A	Q13 4B
CN611M 4A	Q14 4B
CN612M 3C	Q15 4B
CN613M 4C	Q16 4C
CN614M 4E	Q17 4B
CN615M 4G	Q18 4B
	Q19 4B
	Q101 1D
	Q102 1D
	Q103 1D
	Q104 1D
	Q105 1D
	Q106 2D
	Q107 2D
	Q108 2D
	IC1 1B
	IC2 2A
	IC3 2A
	IC4 2B
	IC5 2B
	IC6 2B
	IC7 2C
	IC8 2B
	IC9 2B
	IC10 2C
	IC101 4D
	IC201 3D
	IC301 3E
	IC302 3F
	IC303 4E
	IC401 4F
	JP101 4C
	JP102 4C
	JP103 4D
	JP104 4D
	JP105 4E
	JP106 4E
	JP107 1D
	JP201 3C
	JP202 4C
	JP203 4D
	JP204 3D
	JP205 4E
	JP206 3E
	JP207 2D
	JP301 3G
	JP302 3G
	JP303 4F
	JP304 3F
	JP305 4F
	JP306 3F
	JP307 2G
	JP308 4E
	TPE1 1C
	TPE2 3B
	TPE3 4B
	TPE4 4A
	TPE5 4C
	TPE6 4C
	TPE101 1D
	TPE102 1E
	TPE103 2C
	TPE104 4C
	TPE105 4E
	TPE106 4A
	TPE107 3D
	TPE108 1G
	RV1 2C
	RV2 3C
	RV101 1D
	RV102 2D
	RV201 2D
	RV202 3D
	RV301 2E
	RV302 3E
	RV401 1G
	RV402 2G

LA-02 BOARD

Audio Line IN/OUT Amplifier

C-218 C-217 C-219

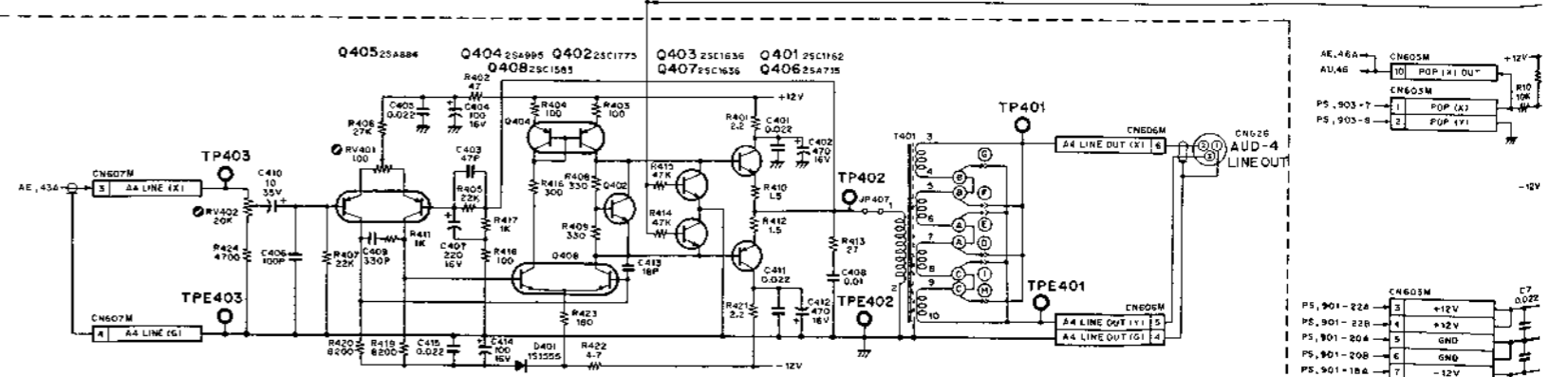
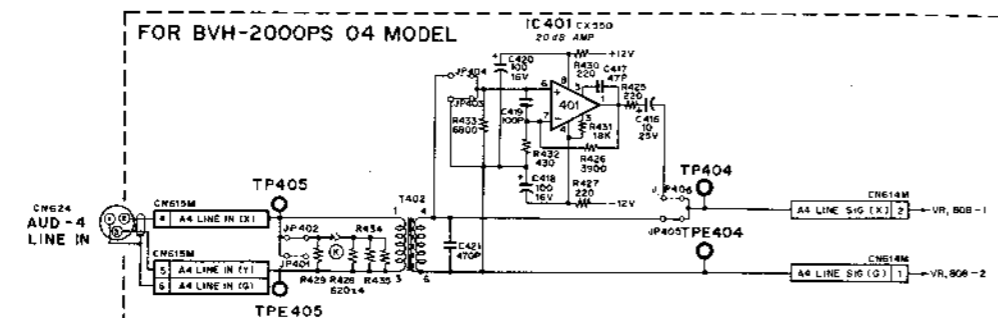
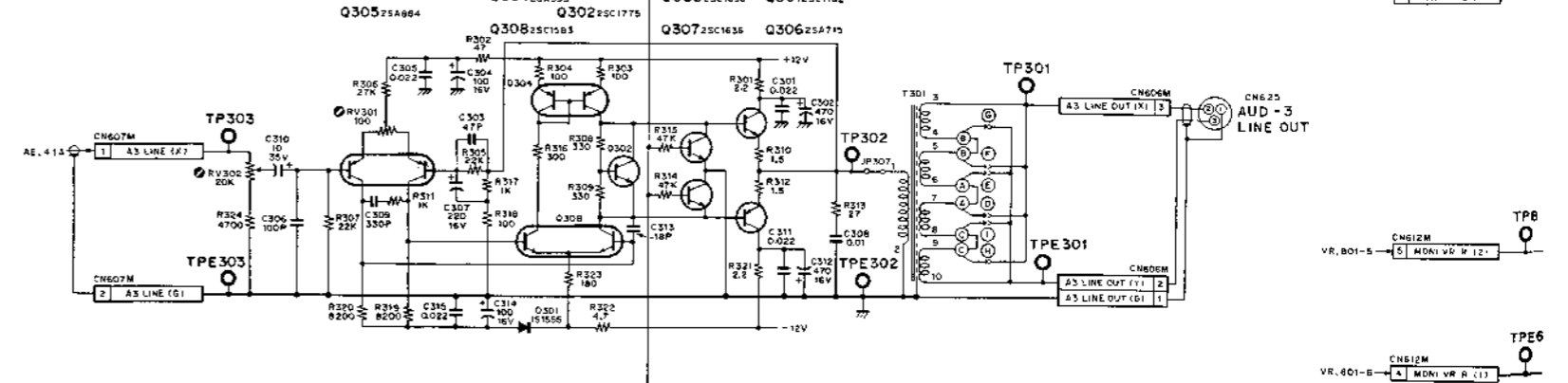
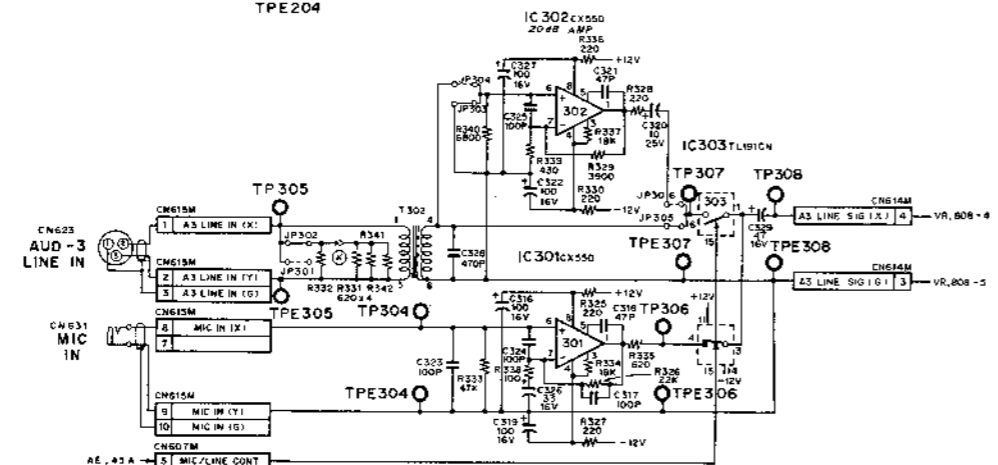
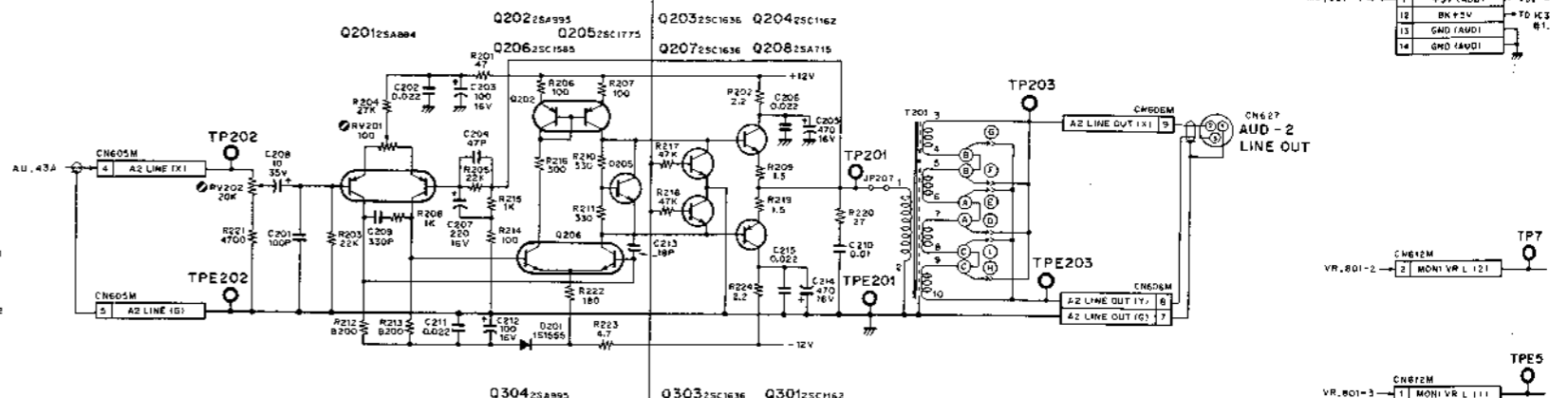
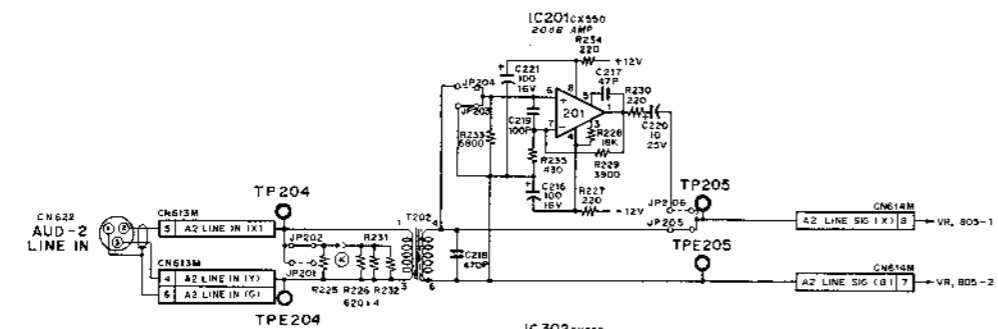
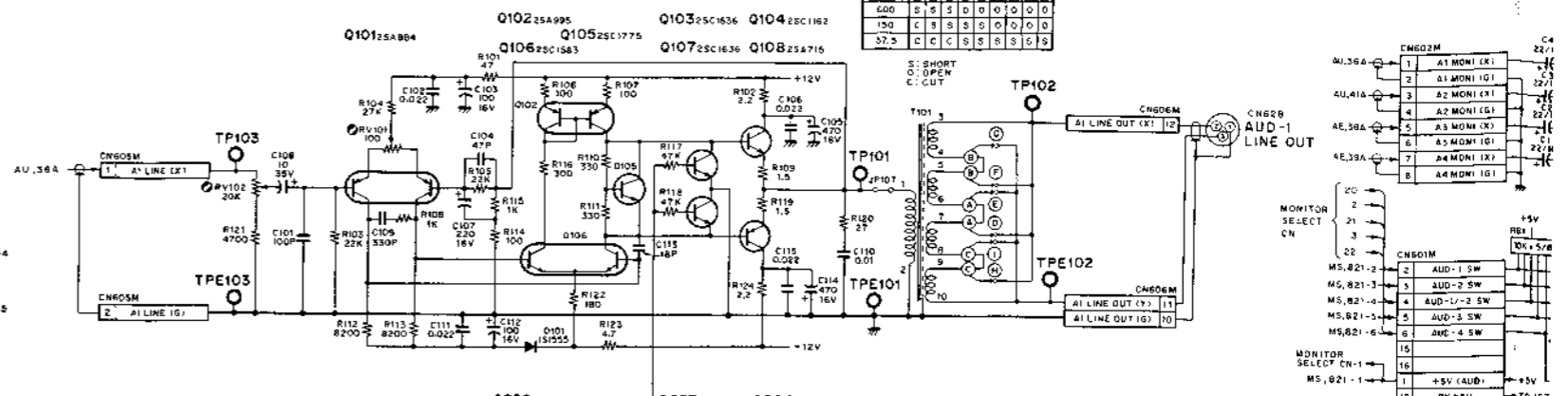
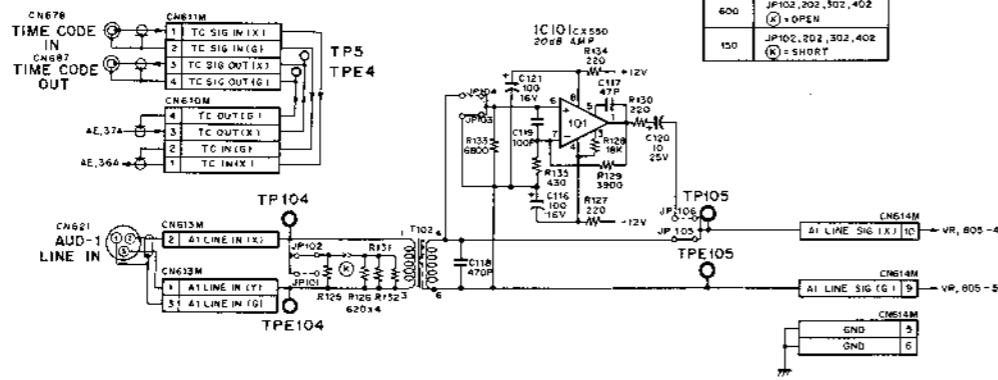
C-253 C-254 C-255 BVH-2000/PS/PM BVH-2500

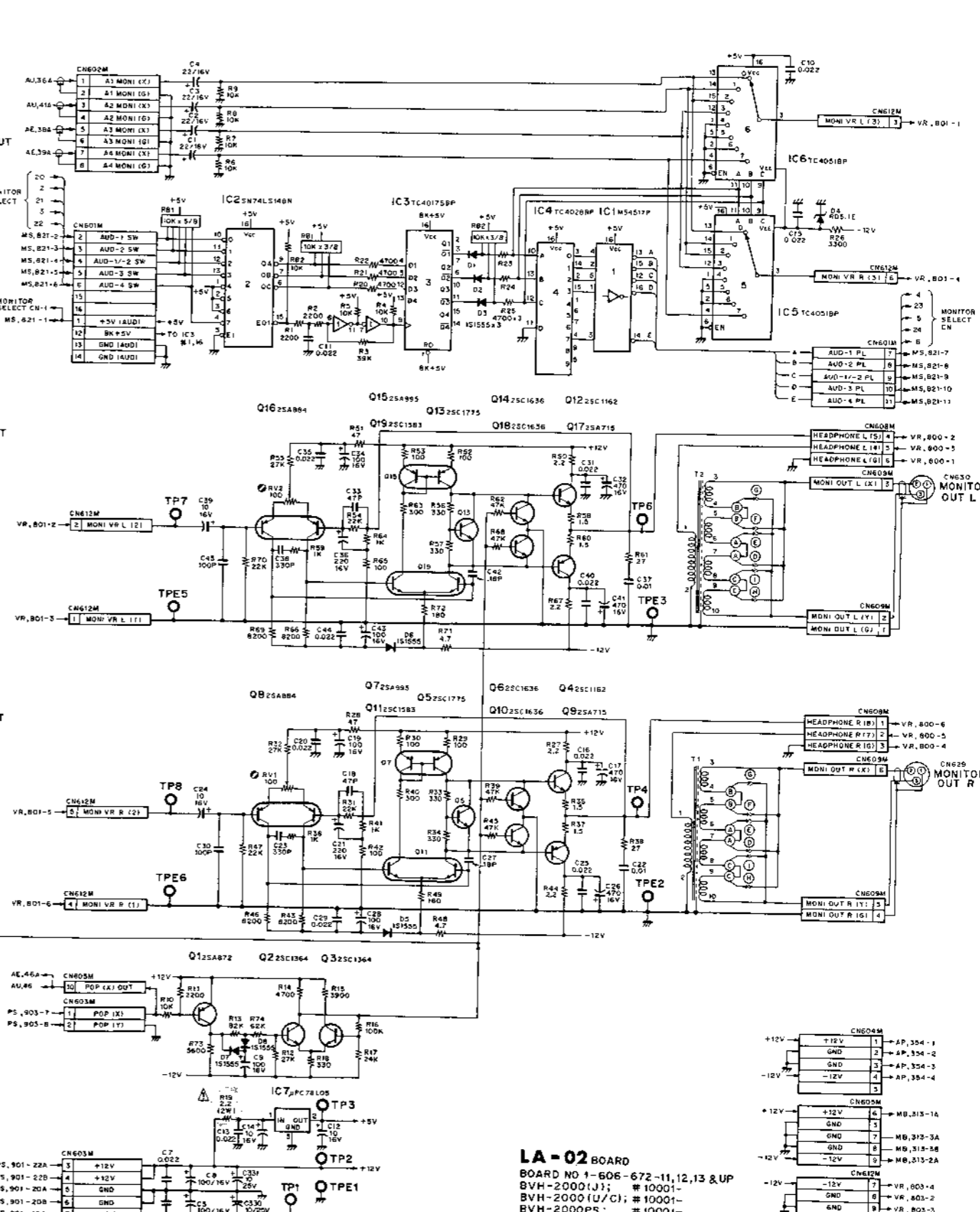
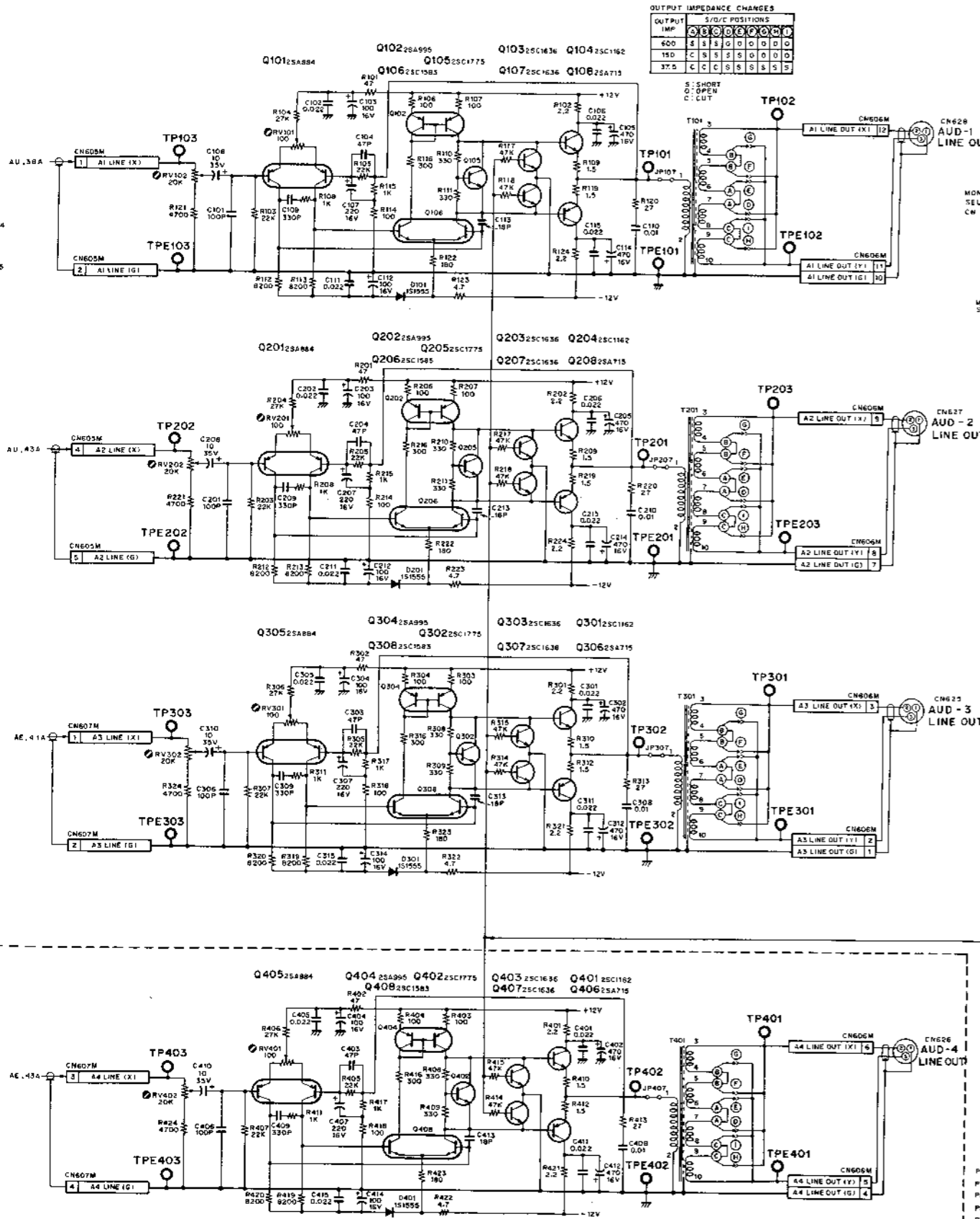
INPUT IMPEDANCE CHANGES

INPUT IMP.	JUMPER POSITIONS (ALL CHANNELS)
10K	JP103, 301, 301, 401 (X)
600	JP103, 302, 302, 402 (X) + OPEN
150	JP103, 302, 302, 402 (X) + SHORT

OUTPUT IMPEADANCE CHANGES

OUTPUT IMP.	S/W/C POSITIONS
500	SW1 SW2 SW3 SW4 SW5 SW6 SW7 SW8 SW9 SW10
150	SW1 SW2 SW3 SW4 SW5 SW6 SW7 SW8 SW9 SW10
37.5	SW1 SW2 SW3 SW4 SW5 SW6 SW7 SW8 SW9 SW10

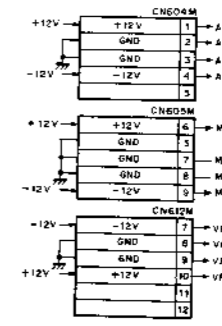




OUTPUT IMPEDANCE CHANGES

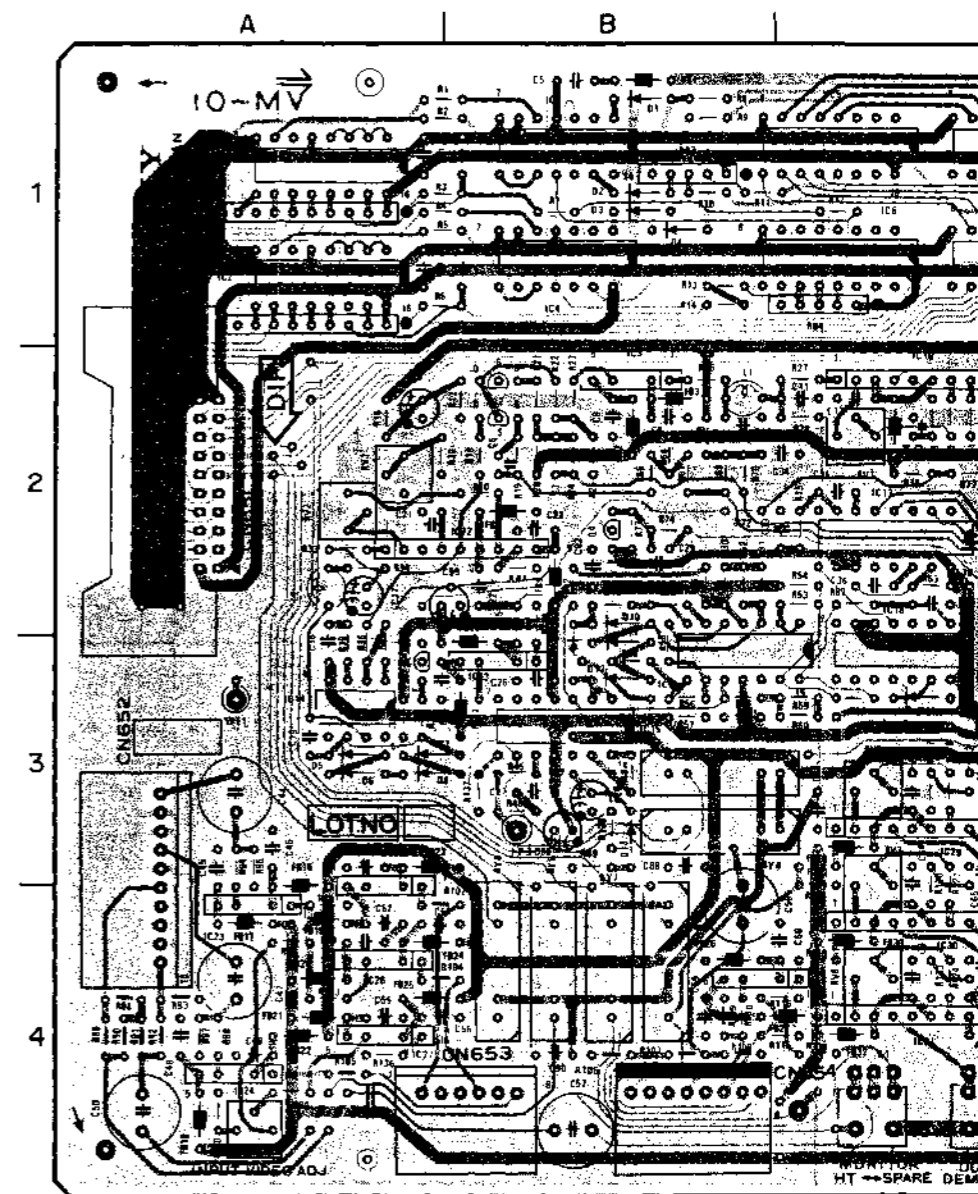
OUTPUT IMP	S/D/C POSITIONS
600	S S S G O O O O O
150	C S S S S O O O O
37.5	C C C S S S S S S

LA-02 BOARD
 BOARD NO 1-606-672-11,12,13 & UP
 BVH-2000(J); # 10001-
 BVH-2000 (U/C); # 10001-
 BVH-2000PS; # 10001-
 BVH-2000PM; # 10001-
 BVH-2500(J); # 10001-
 BVH-2500(U/C); # 10001-



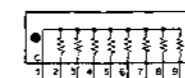
VM-01 BOARD (1-606-658-12)

Component Side

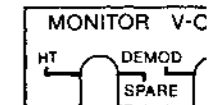
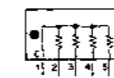


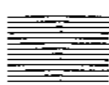
1-606-658-12 COMPONENT SIDE

RB1, 2

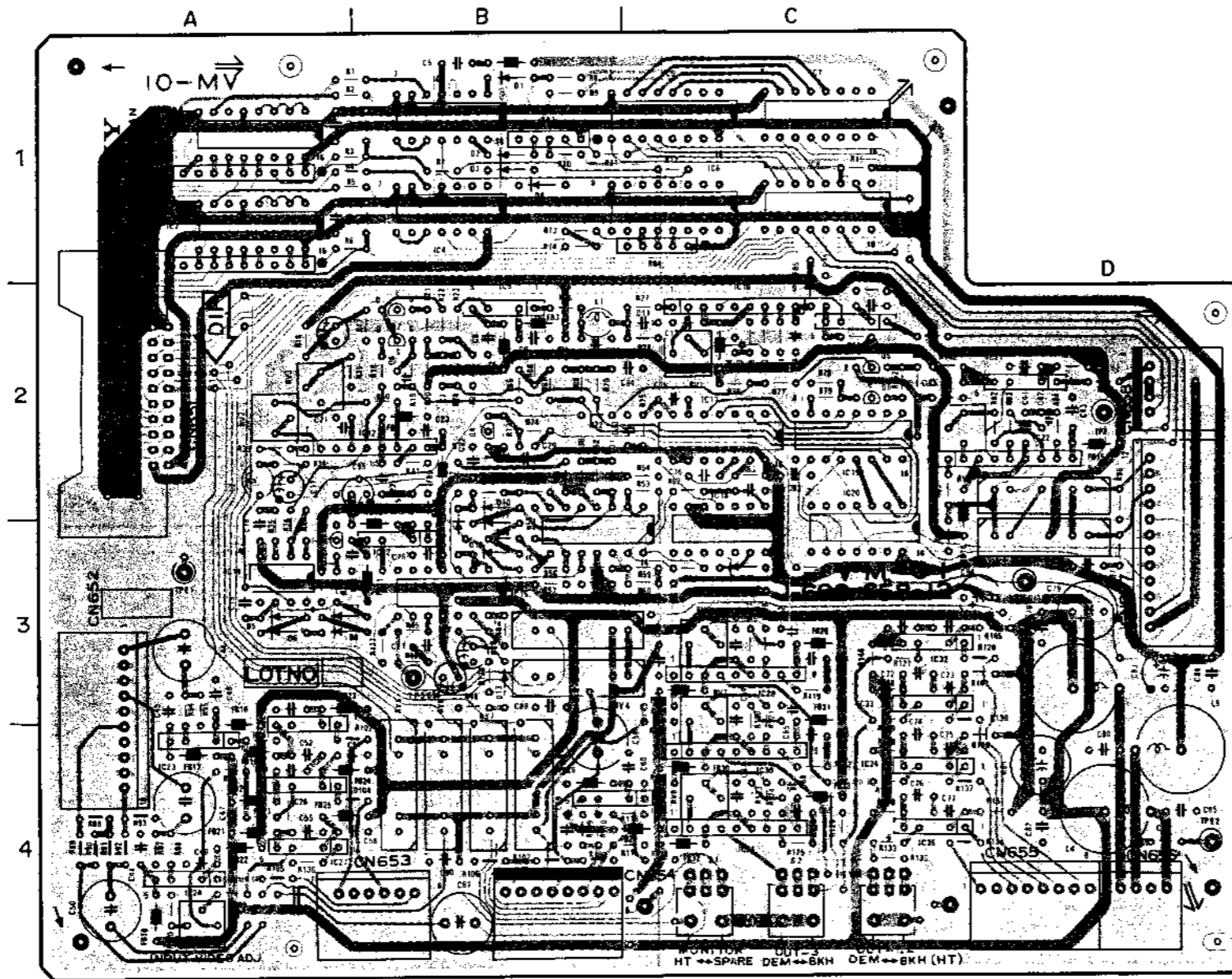


RB3, 4





VM-01 BOARD (1-606-658-12)
Component Side



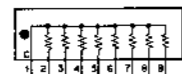
VM-01 (1-606-658-12)

BVH-2000 J,U/C1	Q1	2B	
BVH-2000P5	Q2	2B	
BVH-2000PM	Q3	3A	
	Q4	2B	
CN651N	Q5	2C	
	Q6	2C	
CN652M			
	RB1	1A	
CN653M	RB2	1A	
	RB3	1B	
CN654M	RB4	1C	
CN655M	RV1	2C	
	RV2	2A	
CN656M	RV3	2A	
	RV4	2C	
CN657M	RV5	4A	
	RV6	3C	
CN658M	RV7	3C	
	RV8	4C	
D1	1B	RY1	2D
D2	1B	RY2	3D
D3	1B	RY3	3B
D4	1B	RY4	3B
D5	3A	RY5	4B
D6	3A	RY6	4B
D7	3A	RY7	4B
D8	3A	RY8	4B
D9	3B		
D10	2B	S1	4C
D11	3B	S2	4C
D12	3B	S3	4C
D13	3B		
D14	3C	TP1	3D
		TP2	2D
		TP3	3B
IC1	1A		
IC2	1A		
IC3	1B	TPE1	5A
IC4	1B	TPE2	4D
IC5	1C		
IC6	1C		
IC7	1C		
IC8	1C		
IC9	2B		
IC10	2C		
IC11	2C		
IC12	2B		
IC13	3B		
IC14	3A		
IC15	3B		
IC16	3B		
IC17	2C		
IC18	3C		
IC19	2C		
IC20	3C		
IC21	2D		
IC22	2D		
IC23	4A		
IC24	4A		
IC25	4A		
IC26	4A		
IC27	4A		
IC28	4B		
IC29	3C		
IC30	4C		
IC31	4C		
IC32	3C		
IC33	3C		
IC34	4C		
IC35	4C		

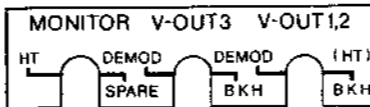
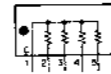
1-606-658-12 COMPONENT SIDE

SI-820-200-1

RB1, 2



RB3, 4



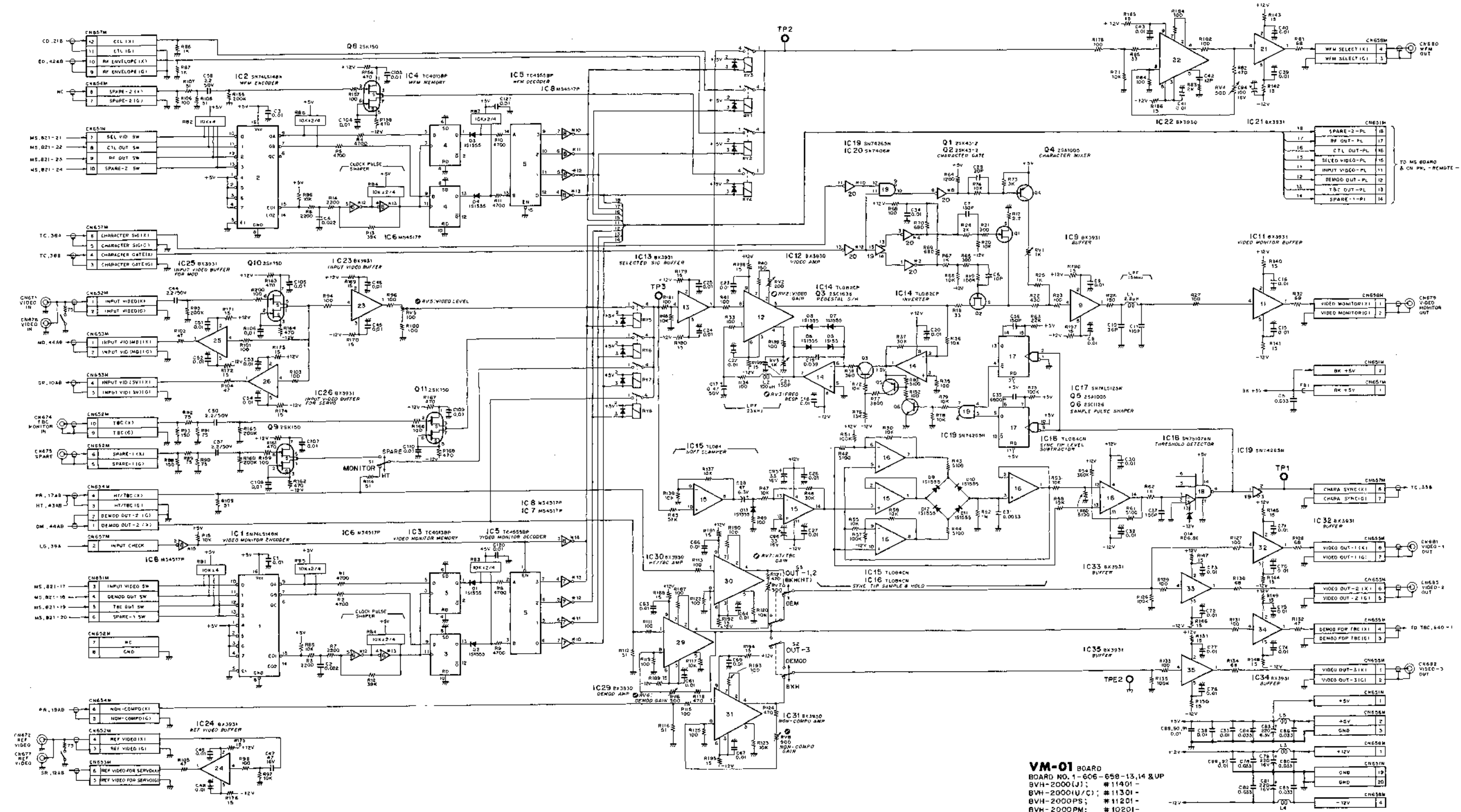
VM-01 BOARD
Video Buffer/Monitor Select

BVH-2000/PS/PM C-224(4/5)

C-260

C-259

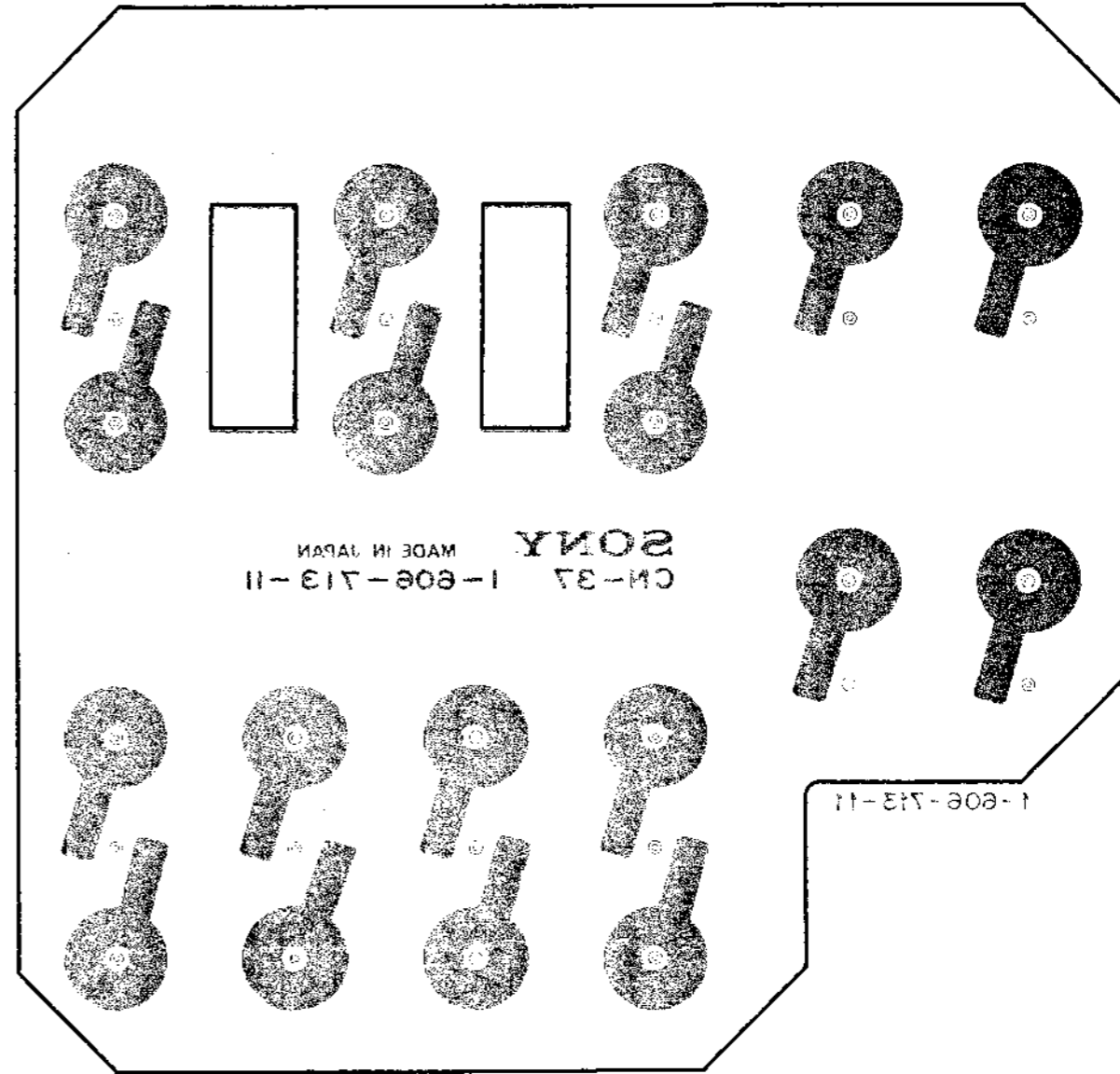
BVH-2500



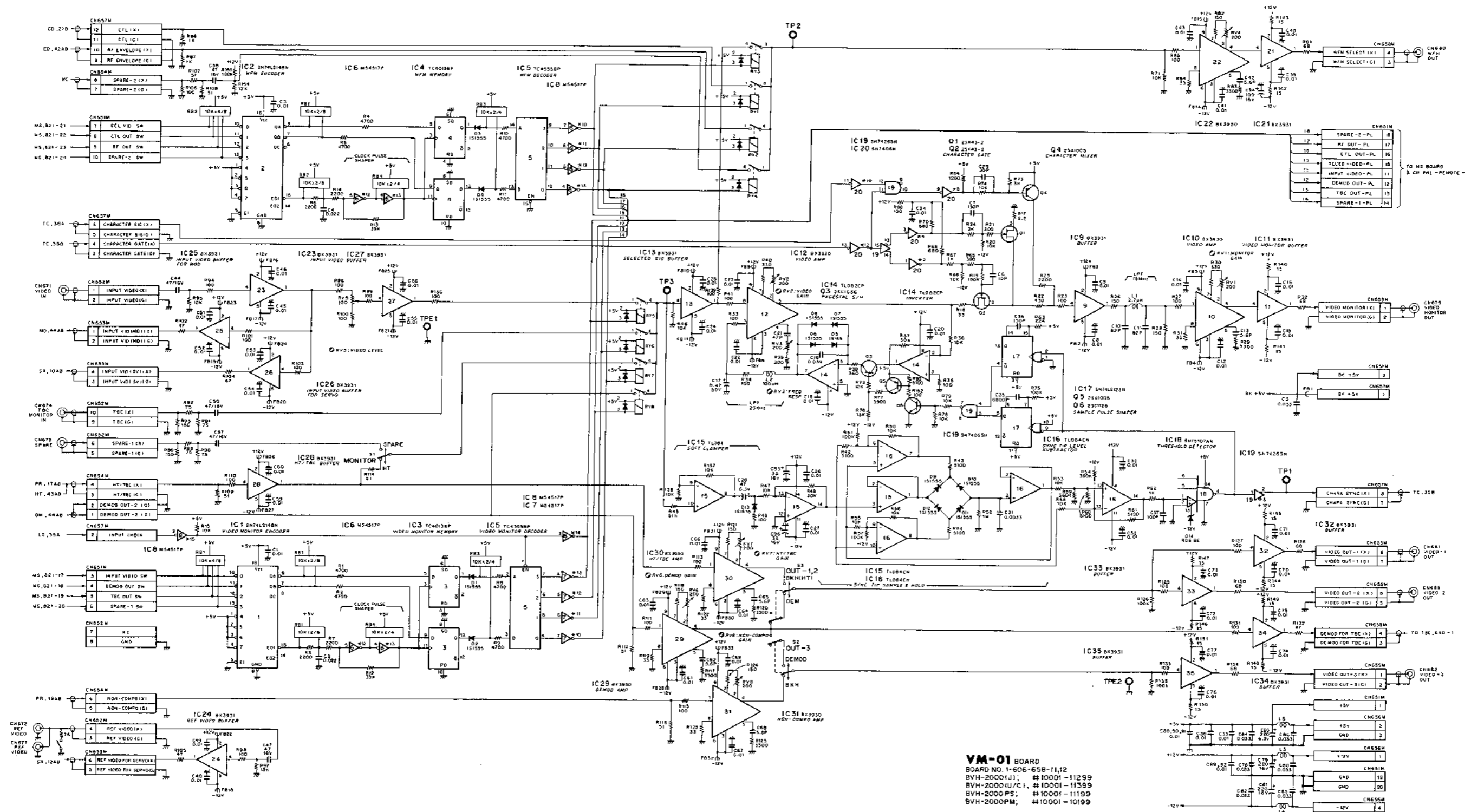
VM-01 BOARD
 BOARD NO. 1-606-658-13,14 & UP
 BVH-2000(J); # 11401-
 BVH-2000(U/C); # 11301-
 BVH-2000PS; # 11201-
 BVH-2000PM; # 10201-
 BVH-2500(J); # 10001-
 BVH-2500(U/C); # 10001-



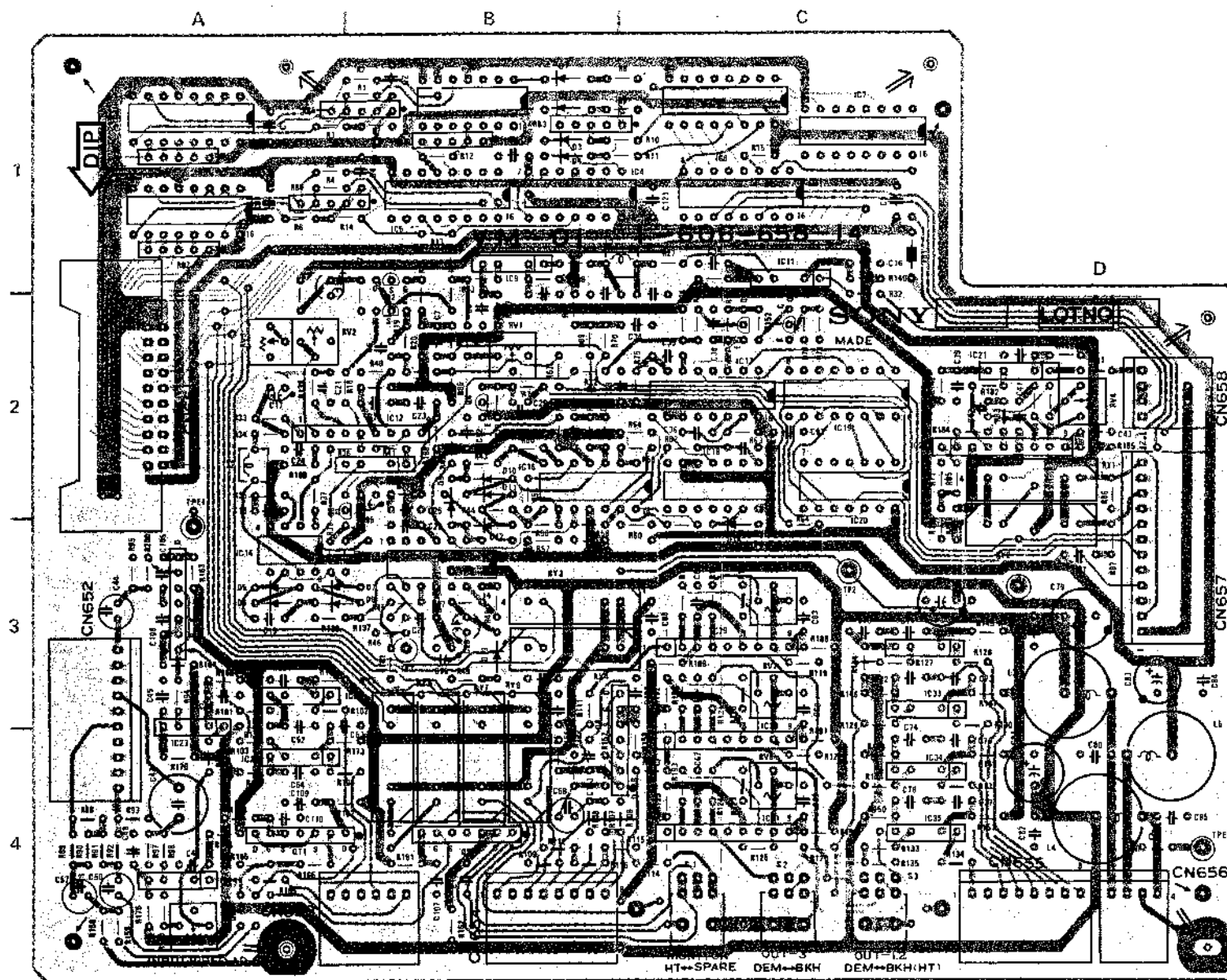
CN-37 BOARD (1-606-713-11)
Component Side



VM-01 BOARD
Video Buffer/Monitor Select



VM-01 BOARD (1-606-658-14)
Component Side



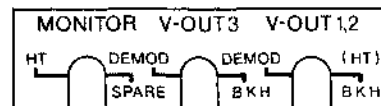
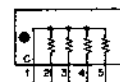
1-606-658-14 COMPONENT SIDE

1-606-658-14 SOLDER SIDE

VM-01 (1-606-658-14 & OP)

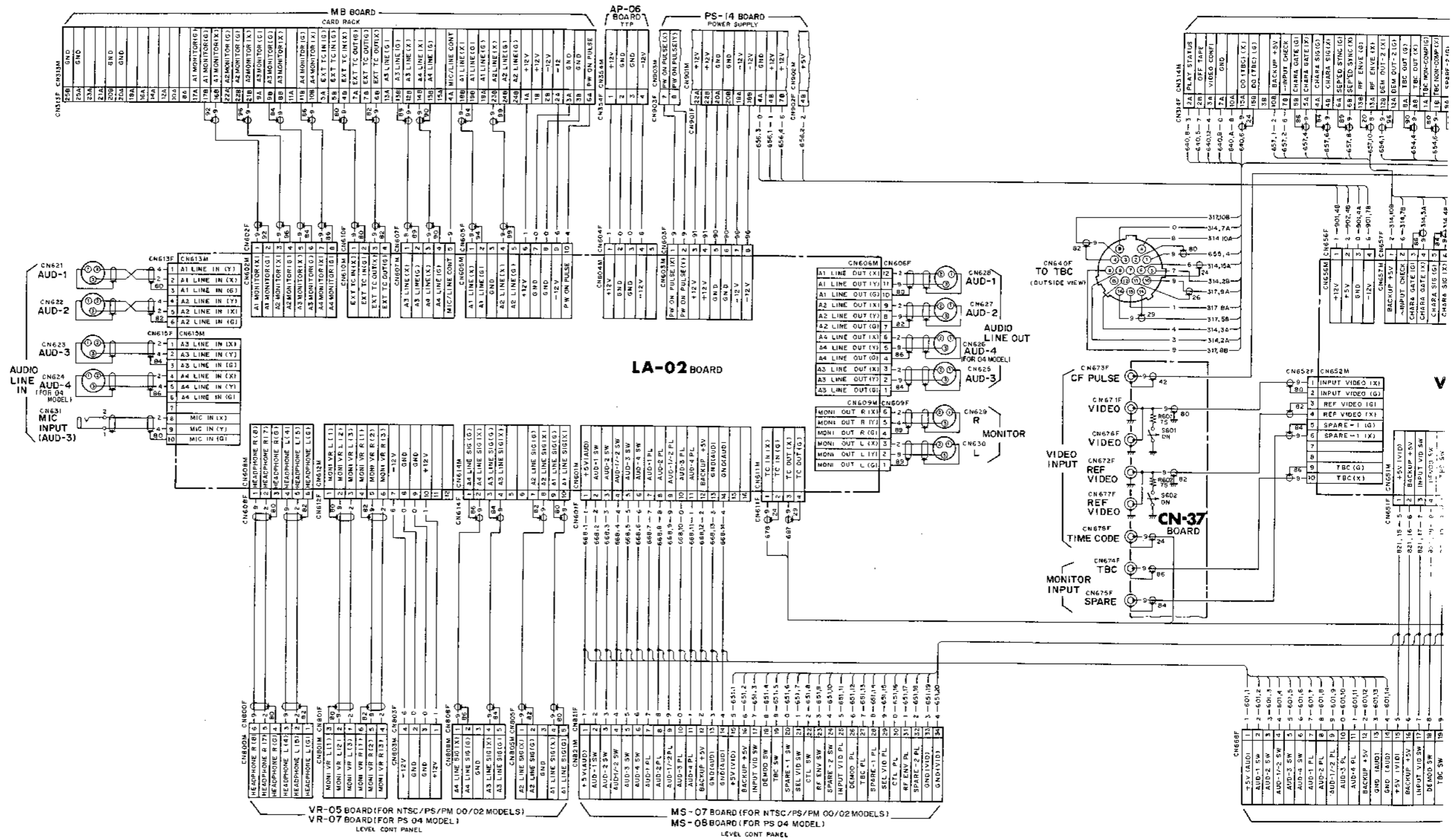
BVR-2000 (J,U/C)		
BVH-2000PS		
BVB-2000PM		
BVR-2500 (J,U/C)		
CN651M	Q1	2B
	Q2	2B
CN652M	Q3	2B
	Q4	2B
CN653M	Q5	2C
	Q6	2C
CN654M	Q8	4B
	Q9	4B
CN655M	Q10	3A
	Q11	4A
CN656M		
	RB1	1A
CN657M	RB2	1A
	RB3	1B
	RB4	1B
CN658M	RB5	1B
	RB6	1A
D1	1B	
D2	1B	
D3	1B	
D4	1B	
D5	3A	
D6	3A	
D7	3A	
D8	3A	
D9	2B	
D10	2B	
D11	2B	
D12	3B	
D13	3B	
D14	1C	
IC1	1A	
IC2	1A	
IC3	1B	
IC4	1B	
IC5	1C	
IC6	1B	
IC7	1C	
IC8	1C	
IC9	2B	
IC11	2C	
IC12	2B	
IC13	2B	
IC14	3A	
IC15	3B	
IC16	2B	
IC17	2C	
IC18	2C	
IC19	2C	
IC20	2C	
IC21	2D	
IC22	2D	
IC23	4A	
IC24	4A	
IC25	3A	
IC26	4A	
IC29	3C	
IC30	4C	
IC31	4C	
IC32	3C	
IC33	3C	
IC34	4C	
IC35	4C	

RB1, 2, 3, 4, 5, 6



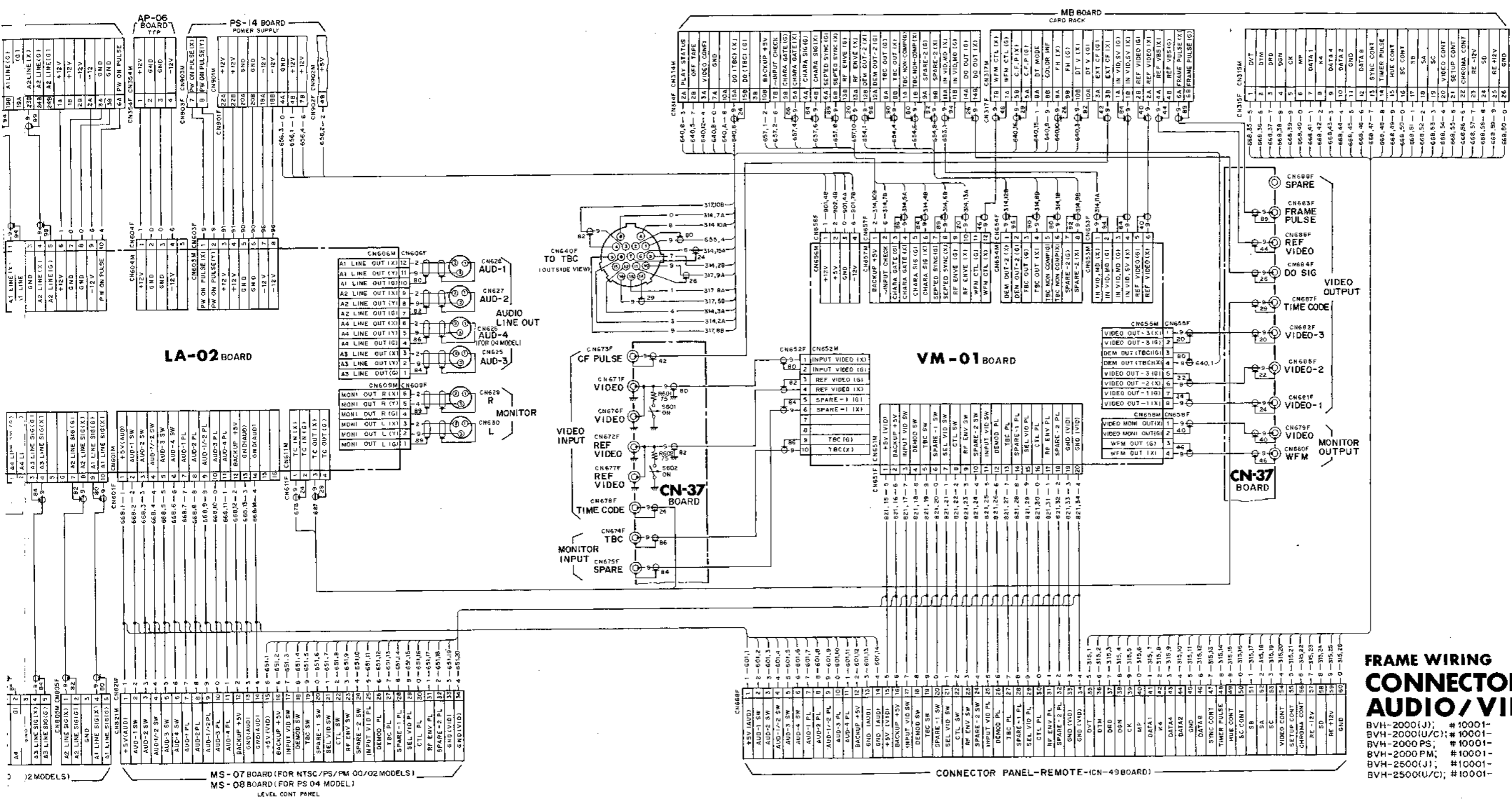
FRAME WIRING - AUDIO/VIDEO ; CONNECTOR PANEL
CN-37 BOARD : Video Connector Panel

BVH-2000/PS/PM C-227 C-228 C-229
BVH-2500 C-263 C-264 C-265



C-227

C-228

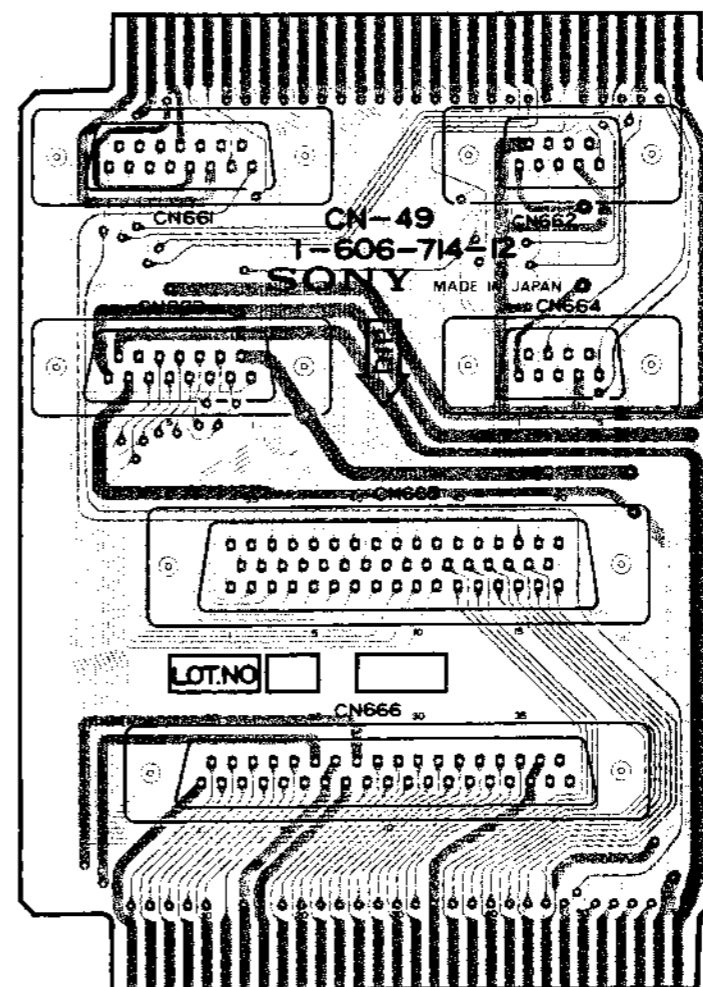


FRAME WIRING CONNECTOR PANEL AUDIO/VIDEO

BVH-2000(J); #10001-
 BVH-2000(U/C); #10001-
 BVH-2000(PS); #10001-
 BVH-2000(PM); #10001-
 BVH-2500(J); #10001-
 BVH-2500(U/C); #10001-



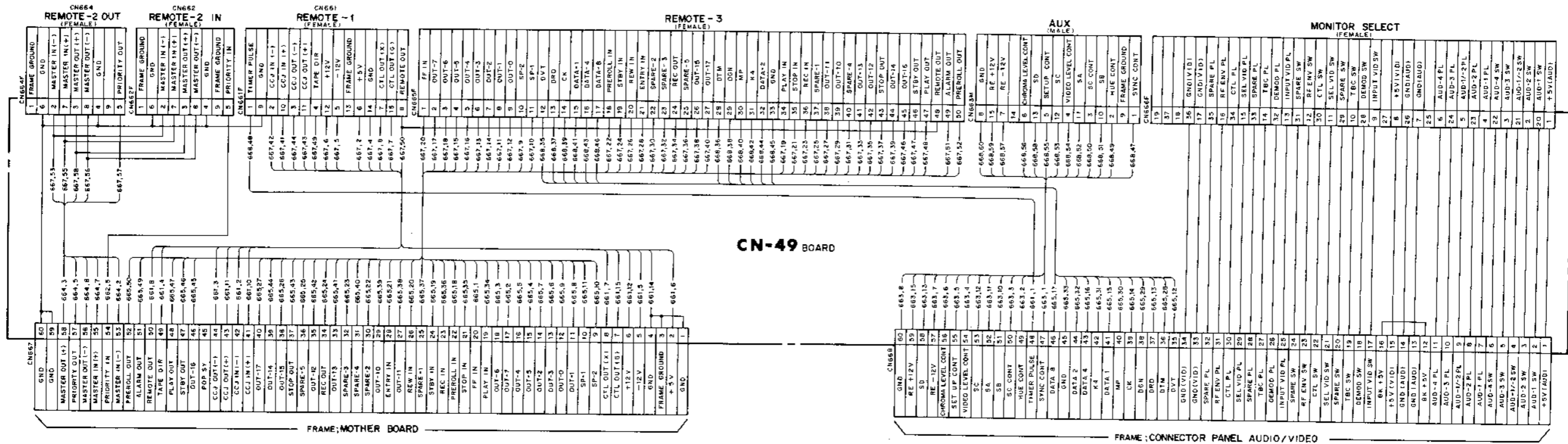
CN-49 BOARD (1-606-714-12)
Component Side



1-606-714-12 COMPONENT SIDE ST-41T-808-1

FRAME WIRING - REMOTE ; CONNECTOR PANEL

CN-49 BOARD; Remote Connector Panel



**FRAME WIRING
CONNECTOR PANEL-REMOTE**

BVH-2000(J); # 10001-
 BVH-2000(U/C); # 10001-
 BVH-2000PS; # 10001-
 BVH-2000PM; # 10001-
 BVH-2500(J); # 10001-
 BVH-2500(U/C); # 10001-