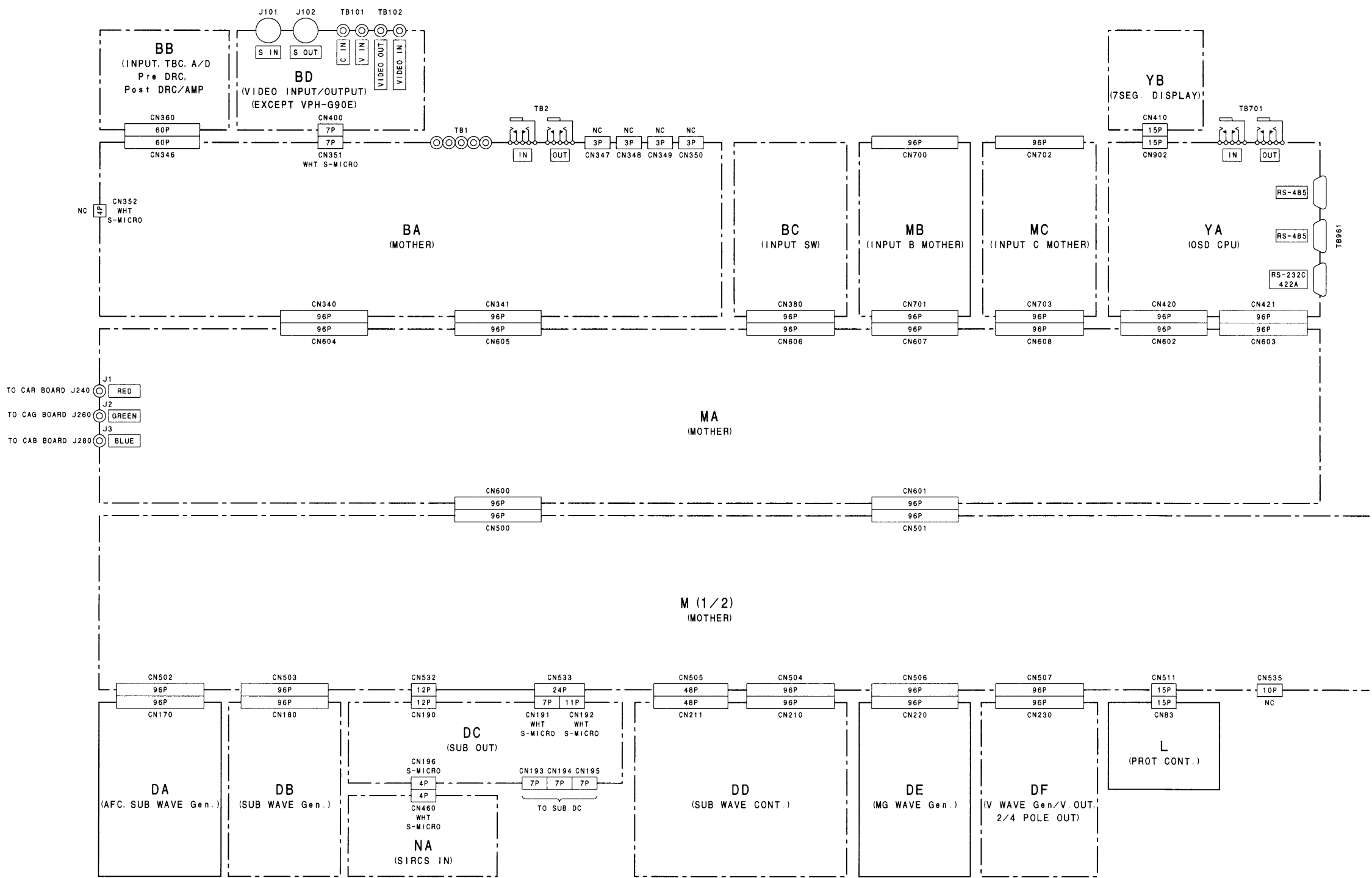


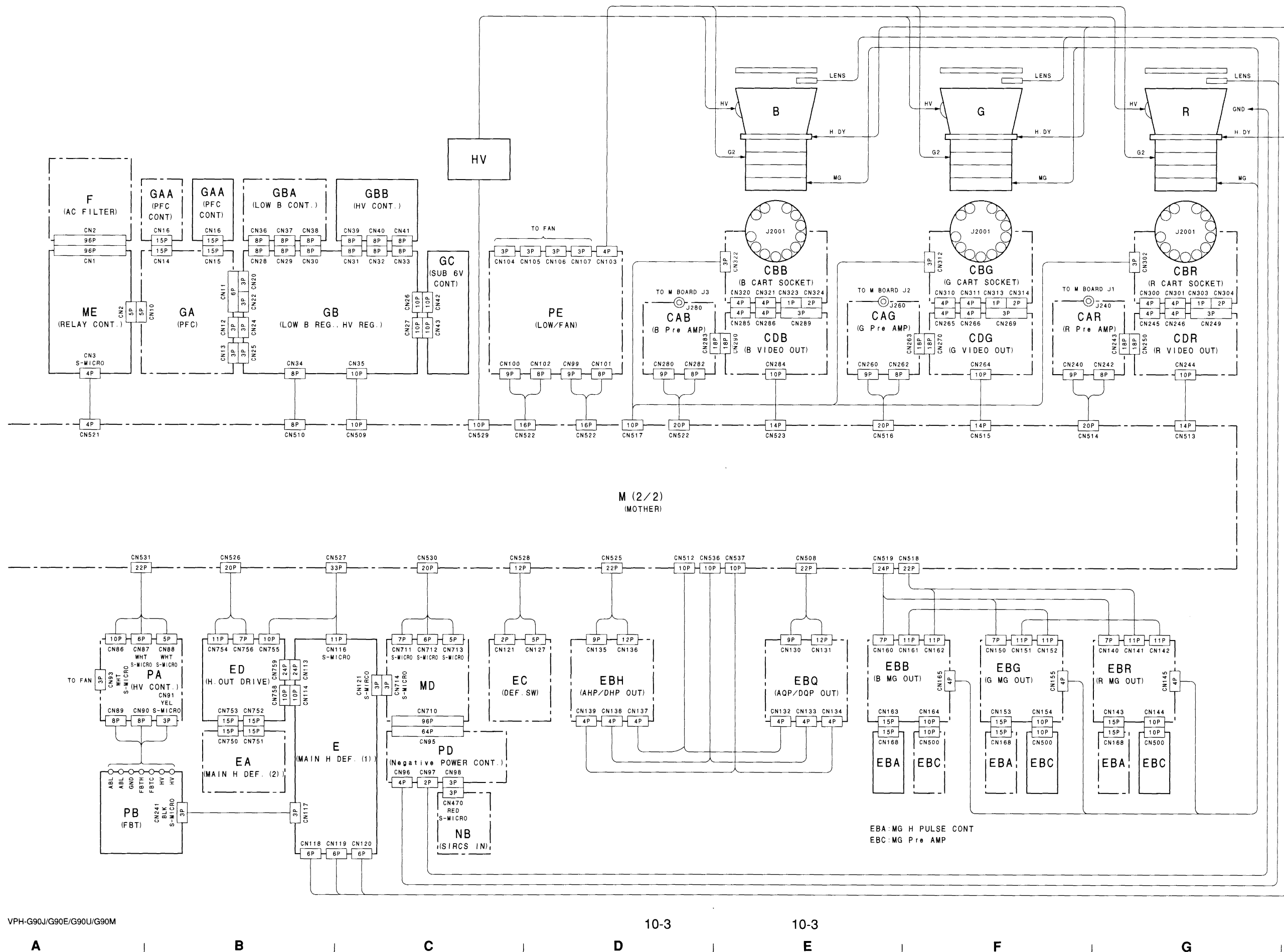
SECTION 10

DIAGRAMS

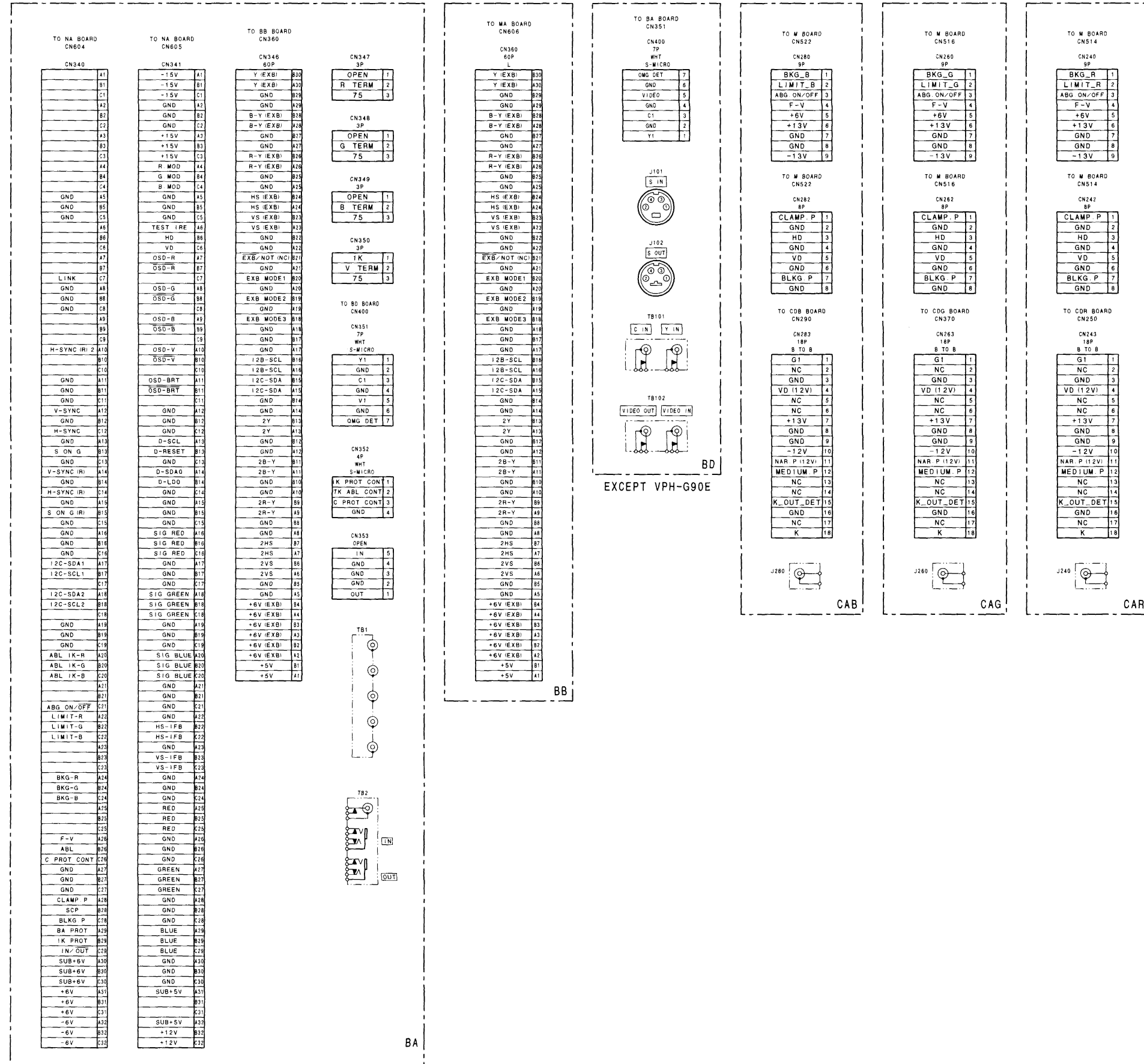
10-1. FRAME SCHEMATIC DIAGRAMS
FRAME (1/11) WIRING



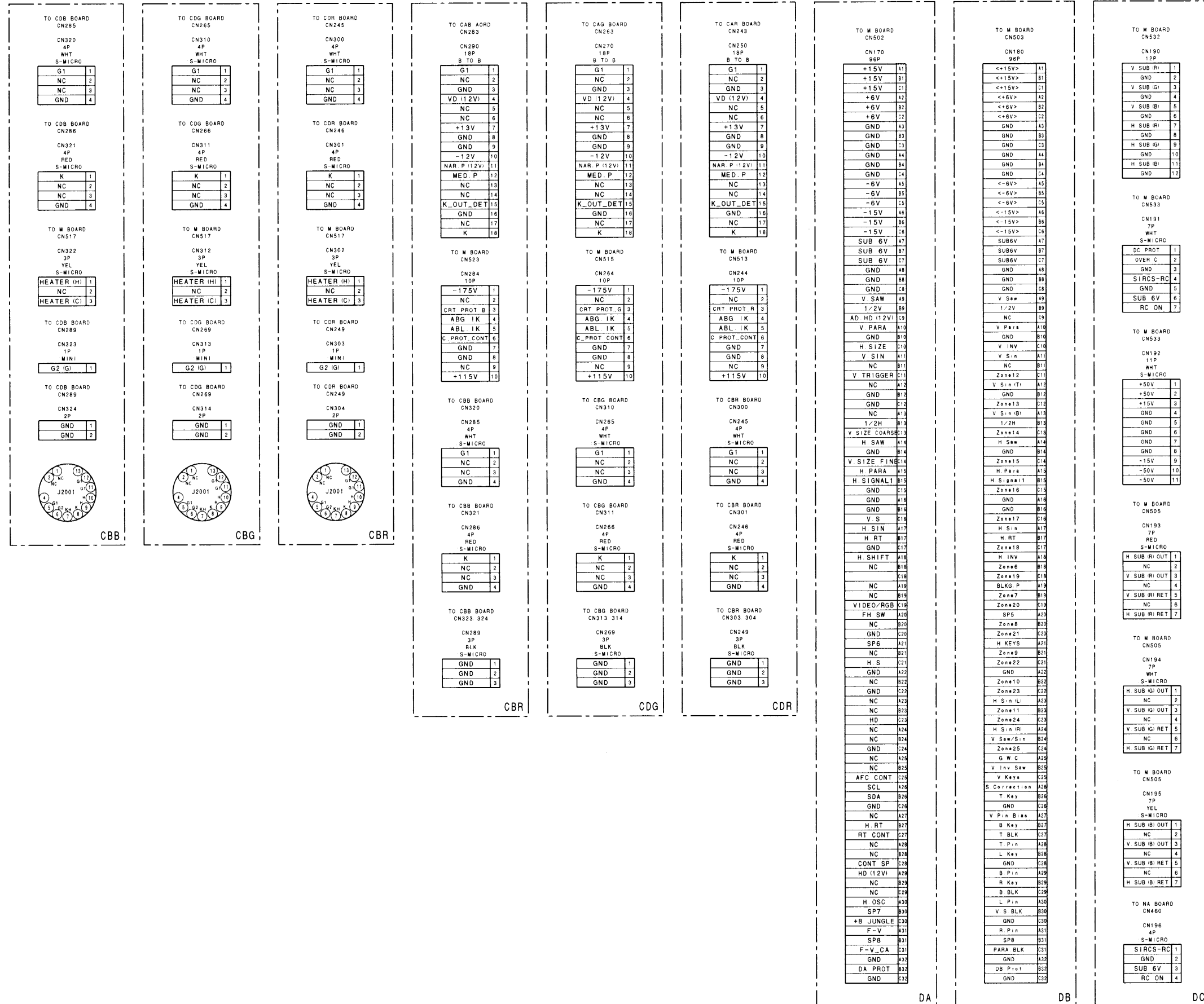
FRAME (2/11) WIRING



FRAME (3/11) WIRING



FRAME (4/11) WIRING



FRAME (5/11) WIRING

1

2

3

4

5

TO M BOARD CN504		
CN210	96P	
<+15V>	A1	
<+15V>	B1	
<+15V>	C1	
<+6V>	A2	
<+6V>	B2	
<+6V>	C2	
GND	A3	
GND	B3	
GND	C3	
GND	A4	
GND	B4	
GND	C4	
<-6V>	A5	
<-6V>	B5	
<-6V>	C5	
<-15V>	A6	
<-15V>	B6	
<-15V>	C6	
SUB 6V	A7	
SUB 6V	B7	
SUB 6V	C7	
GND	A8	
GND	B8	
GND	C8	
V Saw	A9	
D-RESET	B9	
NC	C9	
V Para	A10	
D-SCL	B10	
H Size	C10	
NC	A11	
D-LD 0	B11	
Zone 12	C11	
V Sin (I)	A12	
D-LD 1	B12	
Zone 13	C12	
V Sin (B)	A13	
D-LD 2	B13	
Zone 14	C13	
H Saw	A14	
D-LD 3	B14	
Zone 15	C14	
H Para	A15	
D-SDA 0	B15	
Zone 16	C15	
GND	A16	
D-SDA 1	B16	
Zone 17	C16	
H Sin	A17	
D-SDA 2	B17	
Zone 18	C17	
H Shift	A18	
Zone 6	B18	
Zone 19	C18	
NC	A19	
Zone 7	B19	
Zone 20	C19	
THSW	A20	
Zone 8	B20	
Zone 21	C20	
H KEYS	A21	
Zone 9	B21	
Zone 22	C21	
GND	A22	
Zone 10	B22	
Zone 23	C22	
H Sin (L)	A23	
Zone 11	B23	
Zone 24	C23	
H Sin (R)	A24	
V Saw/Sin	B24	
Zone 25	C24	
G W C	A25	
V INV Saw	B25	
V Keys	C25	
S Correction	A26	
T Key	B26	
GND	C26	
V Pin Bias	A27	
B Key	B27	
T BLK	C27	
T Pin	A28	
L Key	B28	
GND	C28	
B Pin	A29	
R Key	B29	
B BLK	C29	
L Pin	A30	
SP 7	B30	
GND	C30	
R Pin	A31	
SP 8	B31	
NC	C31	
GND	A32	
DDProt	B32	
GND	C32	

DD

TO M BOARD CN506		
CN220	96P	
+15V	C32	
+15V	B32	
+15V	A32	
+6V	C31	
+6V	B31	
+6V	A31	
GND	C30	
GND	B30	
GND	A30	
GND	C29	
GND	B29	
GND	A29	
-6V	C28	
-6V	B28	
-6V	A28	
-15V	C27	
-15V	B27	
-15V	A27	
SUB 6V	C26	
SUB 6V	B26	
SUB 6V	A26	
GND	C25	
GND	B25	
GND	A25	
AQP OUT (R)	C24	
D-RESET	B24	
AD HD (12V)	A24	
GND	C23	
D-SCL	B23	
H SIZE	A23	
DQP OUT (R)	C22	
D-LD0	B22	
V TRIGGER	A22	
GND	C21	
D-LD1	B21	
GND	A21	
AQP OUT (G)	C20	
D-LD2	B20	
V SIZE COARSE	A20	
GND	C19	
D-LD3	B19	
V SIZE FINE	A19	
DQP OUT (G)	C18	
D-SDA0	B18	
GND	A18	
GND	C17	
D-SDA1	B17	
PLUS ON/OFF	A17	
AQP OUT (B)	C16	
D-SDA2	B16	
SP1	A16	
GND	C15	
NC	B15	
SP2	A15	
DQP OUT (B)	C14	
NC	B14	
SP4	A14	
GND	C13	
NC	B13	
AHP OUT (R)	A13	
MG FOCUS (RH)	C12	
GND	A12	
GND	C11	
NC	B11	
DHP OUT (R)	A11	
MG FOCUS (RV)	C10	
NC	B10	
GND	A10	
GND	C9	
NC	B9	
AHP OUT (G)	A9	
MG FOCUS (GH)	C8	
NC	B8	
GND	A8	
GND	C7	
NC	B7	
DHP OUT (G)	A7	
MG FOCUS (GV)	C6	
NC	B6	
GND	A6	
GND	C5	
NC	B5	
AHP OUT (B)	A5	
MG FOCUS (BH)	C4	
NC	B4	
GND	A4	
GND	C3	
SP7	B3	
DHP OUT (B)	A3	
MG FOCUS (BV)	C2	
SP8	B2	
GND	A2	
GND	C1	
DE PROT	B1	
GND	A1	

DE

TO M BOARD CN307		
CN230		
+15V	C32	
+15V	B32	
+15V	A32	
+6V	C31	
+6V	B31	
+6V	A31	
GND	C30	
GND	B30	
GND	A30	
GND	C29	
GND	B29	
GND	A29	
-6V	C28	
-6V	B28	
-6V	A28	
-15V	C27	
-15V	B27	
-15V	A27	
SUB 6V	C26	
SUB 6V	B26	
SUB 6V	A26	
GND	C25	
GND	B25	
GND	A25	
2POLE OUT (GV)	C24	
D-RESET	B24	
NC	A24	
2POLE OUT (GH)	C23	
D-SCL	B23	
V INV	A23	
2POLE RET (GH)	C22	
D-LD0	B22	
V TRIGGER	A22	
2POLE RET (GV)	C21	
D-LD1	B21	
GND	A21	
4POLE OUT (GV)	C20	
D-LD2	B20	
V SIZE COARSE	A20	
4POLE OUT (GH)	C19	
D-LD3	B19	
V SIZE FINE	A19	
4POLE RET (GH)	C18	
D-SDA0	B18	
GND	A18	
4POLE RET (GV)	C17	
D-SDA1	B17	
VD	A17	
NC	C16	
D-SDA2	B16	
SP1	A16	
NC	C15	
NC	B15	
SP2	A15	
NC	C14	
NC	B14	
SP4	A14	
NC	C13	
NC	B13	
2POLE OUT (BV)	A13	
2POLE OUT (RV)	C12	
NC	B12	
2POLE OUT (BH)	A12	
2POLE OUT (RH)	C11	
NC	B11	
2POLE RET (BH)	A11	
2POLE RET (RH)	C10	
NC	B10	
2POLE RET (BV)	A10	
2POLE RET (RV)	C9	
NC	B9	
4POLE OUT (BV)	A9	
4POLE OUT (RV)	C8	
NC	B8	
4POLE OUT (BH)	A8	
4POLE OUT (RH)	C7	
NC	B7	
4POLE RET (BH)	A7	
4POLE RET (RH)	C6	
NC	B6	
4POLE RET (BV)	A6	
4POLE RET (RV)	C5	
NC	B5	
NC	A5	
NC	C4	
NC	B4	
NC	A4	
NC	C3	
V S BLK	B3	
NC	A3	
NC	C2	
SP8	B2	
V DEF	A2	
NC	C1	
V STOP	B1	
GND	A1	

DF

TO ED BOARD CN753		
CN113	24P	
+12V	A1	
+15V	B1	
H LIN SW	A2	
PIN MOD PROT	B2	
NC	A3	
NC	B3	
HDT DRV F	A4	
HDT DRV F	B4	
NC	A5	
NC	B5	
HDT DRV R	A6	
HDT DRV R	B6	
H STOP	A7	
H STOP	B7	
SIZE DET CONT	A8	
PIN MOD FB	B8	
N POW FB	A9	
GND	B9	
PIN MOD	A10	
GND	B10	
H SIZE FB P	A11	
GND	B11	
HOT PULSE	A12	
GND	B12	

TO ED BOARD CN751		
CN751	15P	
DRIVE CONT	1	
NC	2	
PIN MOD FB	3	
DRIVE CONT PULSE	4	
H DRIVE	5	
GND	6	
HOT PULSE	7	
GND	8	
IB2 DET	9	
GND	10	
H SIZE FB P	11	
GND	12	
H STOP	13	
12VHD	14	
PIN MOD PROT	15	

E

TO EBB BOARD CN163 EBG BOARD CN153 EBR BOARD CN143		
CN168	15P	
GND	1	
+12V	2	
NC	3	
+15V DET	4	
-15V DET	5	
NC	6	
EB PROT	7	
NC	8	
PULSE SW	9	
PULSE (-)	10	
PULSE (+)	11	
NC	12	
OUT DET	13	
NC	14	
GND	15	

EBA

TO M BOARD CN519		
CN160	7P	BLU
H-MG BLUE	1	
GND	2	
V-MG BLUE	3	
GND	4	
PULSE SW	5	
GND	6	
EB PROT	7	

TO M BOARD CN518		
CN161	11P	WHT
+50V	1	
+50V	2	
+15V	3	
GND	4	
GND	5	
GND	6	
GND	7	
GND	8	
-15V	9	
-50V	10	
-50V	11	

TO EBA BOARD CN168		
CN163	15P	
GND	1	
+12V	2	
NC	3	
+15V DET	4	
-15V DET	5	
NC	6	
EB PROT	7	
NC	8	
PULSE SW	9	
PULSE (-)	10	
PULSE (+)	11	
NC	12	
OUT DET	13	
NC	14	
GND	15	

TO EBC BOARD CN500		
CN164	10P	
GND	1	
-15 5V	2	
+15 5V	3	
H MG IN	4	
DRIVE	5	
FEED BACK	6	
NC	7	
-12V	8	
+12V	9	
GND	10	

TO CRT		
CN165	4P	YEL
S-MICRO		
H-MG OUT	1	
H-MG RET	2	
V-MG OUT	3	
V-MG RET	4	

EBB

TO EBB BOARD CN164 EBG BOARD CN154 EBR BOARD CN144		
CN500	10P	
GND	1	
-15 5V	2	
+15 5V	3	
H MG IN	4	
DRIVE	5	
FEED BACK	6	
NC	7	
-12V	8	
+12V	9	
GND	10	

EBC

TO M BOARD CN519		
CN150	7P	WHT
H-MG GREEN	1	
GND	2	
V-MG GREEN	3	
GND	4	
PULSE SW	5	
GND	6	
EBG PROT	7	

TO M BOARD CN518		
CN151	11P	WHT
+50V	1	
+50V	2	
+15V	3	
GND	4	
GND	5	
GND	6	
GND	7	
GND	8	
-15V	9	
-50V	10	
-50V	11	

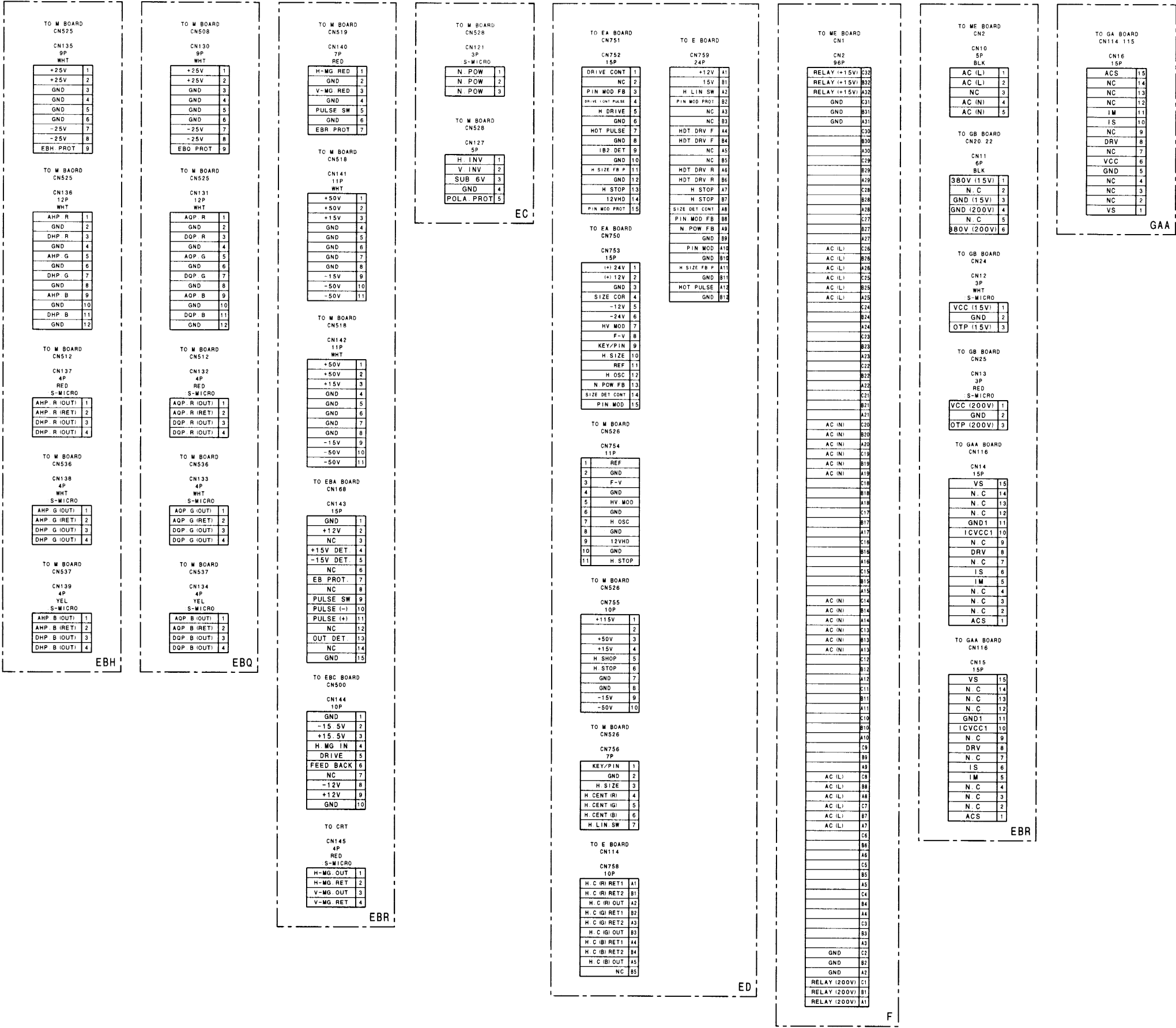
TO EBA BOARD CN168		
CN153	15P	
GND	1	
+12V	2	
NC	3	
+15V DET	4	
-15V DET	5	
NC	6	
EB PROT	7	
NC	8	
PULSE SW	9	
PULSE (-)	10	
PULSE (+)	11	
NC	12	
OUT DET	13	
NC	14	
GND	15	

TO EBC BOARD CN500		
CN154	10P	
GND	1	
-15 5V	2	
+15 5V	3	
H MG IN	4	
DRIVE	5	
FEED BACK	6	
NC	7	
-12V	8	
+12V	9	
GND	10	

TO CRT		
CN155	4P	WHT
S-MICRO		
H-MG OUT	1	
H-MG RET	2	
V-MG OUT	3	
V-MG RET	4	

EBG

FRAME (6/11) WIRING



FRAME (7/11) WIRING

[illegible]

FRAME (8/11) WIRING

TO DE BOARD CN220	TO DF BOARD CN230	TO EBO BOARD CN130, 131	TO CDR BOARD CN244	TO CBB BOARD CN322 CBO BOARD CN312 CBR BOARD CN302	TO CAB BOARD CN282	TO ED BOARD CN754, 755, 756	TO MD BOARD CN711, 712, 713	CN535 10P
CN506 96P	CN507 96P	CN508 22P	CN513 14P	CN517 10P	CN522 20P	CN526 20P	CN530 20P	
+15V B32	+15V B32	+25V A1	-175V A1	HEATER (H) A1	BKG B A1	HOSC A1	+115V A1	M1 A1
+15V B32	+15V B32	+25V B1	-175V B1	HEATER (C) B1	LIMIT B B1	HD (12V) B1	+115V B1	M1 B1
+15V A32	+15V A32	GND A2	NC A2	NC A2	ABG ON/OFF A2	GND A2	NC A2	M2 A2
+6V C31	+6V C31	GND B2	NC B2	NC B2	F V CA B2	GND B2	NC B2	M2 B2
+6V B31	+6V B31	GND A3	CRT PROT R A3	HEATER (H) A3	+6V A3	H STOP A3	GND A3	M3 A3
+6V A31	+6V A31	GND B3	ABG IK B3	HEATER (C) B3	+6V B3	NC B3	GND B3	M3 B3
GND C30	GND C30	EBQ PROT A4	ABL IK A4	NC A4	+15V A4	REF A4	+15V A4	M4 A4
GND B30	GND B30	NC B4	C PROT CONT B4	NC B4	+15V B4	GND B4	GND B4	M4 B4
GND A30	GND A30	-25V A5	GND A5	HEATER (H) A5	GND A5	F-V A5	SIRCS-NB A5	M5 A5
GND C29	GND C29	-25V B5	GND B5	HEATER (C) B5	GND B5	GND B5	LOT DRV B5	M5 B5
GND B29	GND B29	AQP (R) A6	NC A6		-15V A6	HV A6	GND A6	
GND A29	GND A29	DOP (G) B6	NC B6		GND A6	GND B6	GND B6	
-6V C28	-6V C28	GND A7	+115V A7	TO EBB BOARD CN161	CLAMP P A7	KEY/PIN A7	SUB 6V A7	TO EBB BOARD CN138
-6V B28	-6V B28	GND B7	+115V B7	EBB BOARD CN151	GND B7	H CENT (R) B7	LENS PROT B7	EBB BOARD CN133
-6V A28	-6V A28	DOP (R) A8		CN518	HD A8	GND A8	REF A8	CN536
-15V C27	-15V C27	AQP (B) B8	TO CAR BOARD	22P	GND B8	H CENT (G) B8	F-V B8	10P
-15V B27	-15V B27	GND A9	CN240, 242	+50V A1	VD B8	H SIZE A9	GND B8	2P OUT GH A1
-15V A27	-15V A27	GND B9	CN514	+50V B1	GND B9	H CENT (B) B9	GND B9	2P RET GH B1
SUB+6V C26	SUB+6V C26	AQP (G) A10	20P	+15V A2	BLKG P A9	H-LINSW A10	GND A9	2P OUT GV A2
SUB+6V B26	SUB+6V B26	DOP (B) B10	BKG R A1	NC B2	GND B10	NC B10	GND B9	2P RET GV B2
SUB+6V A26	SUB+6V A26	GND A11	LIMIT R B1	GND A3			NC A9	NC A3
GND C25	GND C25	GND B11	ABG ON/OFF A2	GND B3	TO CDB BOARD		4P OUT GH A4	4P RET GH B4
GND B25	GND B25		F V CA B2	GND A4	CN284		4P OUT GV A5	4P RET GV B5
GND A25	GND A25	TO GB BOARD	+6V A3	GND B4	CN523	TO E BOARD		
AQP OUT (R) C24	2POLE OUT (GVI) C24	CN35	+6V B3	GND A5	14P	CN166	CN531	
D-RESET B24	D-RESET B24	10P	+15V A4	GND B5	-175V A1		22P	
AD HD (+12V) A24	NC A24	+50V 1	GND B4	NC B6	-175V B1	+VPM A1	+200 (HV) A1	
GND C23	2POLE OUT (GHI) C23	+25V 2	GND A5	-15V A6	NC A2	VPM B1	+200 (HV) B1	
D-SCL B23	D-SCL B23	+15V 3	NC B6	-50V A7	NC B2	-VPM A2	+200 (HV) A2	
H SIZE A23	V INV A23	+6V 4	-50V B7	NC A8	CRT PROT B A3	NC B2	+200 (HV) B2	
DOP OUT (R) C22	2POLE RET (GHI) C22	GND 5	NC A8	NC B8	ABG IK B3	NC B3	NC B3	
D-LD 0 B22	D-LD 0 B22	-6V 6	SIRCS-NA A9	NC B8	C PROT CONT B4	GND A4	+25V A4	
V TRIGGER A22	V TRIGGER A22	GND 7	SUB 6V B9	NC A10	GND A5	NC B4	GND B4	
D-LD 1 B21	D-LD 1 B21	-15V 8	NC A10	GND B5	GND B5	GND A5	+15V A5	
AQP OUT (G) C20	4POLE OUT (GVI) C20	-25V 9	GND B10	NC A11	NC A6	+CENT A6	GND B5	
D-LD 2 B20	D-LD 2 B20	-50V 10	VD A9	+6V B11	NC B6	-CENT B6	-15V A6	
V SIZE COARSE A20	V SIZE COARSE A20		GND B9		+115V A7	+CENT A7	HV PROT (IN) B6	
GND C19	4POLE OUT (GHI) C19	TO GB BOARD	BLKG P A10		+115V B7	-CENT B7	IK PROT B7	
D-LD 3 B19	D-LD 3 B19	CN34	GND B10	TO EBB BOARD CN160		NC A8	GND A8	
V SIZE FINE A19	V SIZE FINE A19	CN510		EBB BOARD CN150	TO PE BOARD	+115V A8	FAN PROT2 B8	
DOP OUT (G) C18	4POLE RET (GHI) C18	8P	CN515	EBR BOARD CN140	CN99, 101	+115V B9	ABL A9	
D-SDA 0 B18	D-SDA 0 B18	+200 (HV) 1	14P	CN519	CN524	NC A10	ABL B9	
GND A18	GND A18	+115V 2	-175V A1	24P	24P	NC A10	HV PROT DET A10	
D-SDA 1 B17	D-SDA 1 B17	NC 3	-175V B1	MGH R A1	+115V A1	NC A11	GND B10	
GND C17	GND C17	GND 4	NC A2	MGV R B1	+115V B1	+50V A11	HV REG A11	
D-SDA 1 B17	D-SDA 1 B17	GND 5	NC B2	GND A2	NC A2	NC B11	GND B11	
PULSE CONT A17	VD A17	GND 6	CRT PROT A3	GND B2	NC B2	NC A12		
AQP OUT (B) C16	6POLE OUT (GVI) C16	SUB 6V 7	ABG IK B3	PULSE CONT A3	GND A3	NC B12	TO DC BOARD	
D-SDA 2 B16	D-SDA 2 B16	P CONT 8	ABL IK A4	EBR PROT B3	GND B3	+15V A13	CN190	
SP1 A16	SP1 A16		C PROT CONT B4	GND A4	+15V A4	GND B13	CN532	
GND C15	6POLE OUT (GHI) C15	TO L BOARD	GND A5	MGH G A5	+15V B4	GND A14	12P	
NC B15	NC B15	CN83	GND B5	MGV G B5	GND A5	GND B14	V SUB (R) A1	
SP2 A15	SP2 A15	CN511	NC A6	GND A6	GND (FAN) B5	-15V A15	H SUB (R) B1	
DOP OUT (B) C14	6POLE RET (GHI) C14	15P	NC B6	GND B6	-15V A6	NC B15	GND A2	
NC B14	NC B14	+200 (HV) 1	+115V A7	PULSE CONT A7	GND B6	-50V A16	GND B2	
SP4 A14	SP4 A14	NC 2	+115V B7	EBG PROT B7	NC B7	NC B16	V SUB (G) A3	
GND C13	6POLE RET (GVI) C13	+115V 3		GND A8	SIM ON/OFF A7		H SUB (G) B3	
NC B13	NC B13	NC 4	TO CAG BOARD	MGH B A9	NC		GND A4	
AHP OUT (R) A13	2POLE OUT (BVI) A13	+50V 5	CN260, 262	MGV B B9	+CENT A8	TO EC BOARD	GND A4	
MG FOCUS (RH) C12	2POLE OUT (RVI) C12	+15V 6	CN516	GND A10	-CENT B8	CN121, 127	V SUB (B) A5	
GND A12	2POLE OUT (RHI) A12	SUB 6V 7	20P	GND B10	+CENT A9	CN528	H SUB (B) B5	
GND C11	2POLE OUT (RHI) C11	GND 8	BKG G A1	PULSE CONT A11	-CENT B9	12P	GND A6	
NC B11	NC B11	NC 10	LIMIT G B1	EBG PROT B7	NC A10		GND B6	
DHP OUT (R) A11	2POLE RET (BHI) A11	RELAY ON/OFF 11	ABG ON/OFF A2	GND A8	+VPM A11	TO DC BOARD		
MG FOCUS (RV) C10	2POLE RET (RHI) C10	P1 PROT 12	F V CA B2	MGH B A9	NC B11	CN191, 192		
NC B10	NC B10	P2 PROT 13	+6V A3	GND B9	VPM A12			
GND A10	2POLE RET (BVI) A10	P3 PROT 14	+6V B3	GND A10	+VPM B12	CN533		
GND C9	2POLE RET (RVI) C9	P4 PROT 15	+15V A4	TO EBB BOARD		24P		
NC B9	NC B9		+15V B4	CN35, 136	CN525			
AHP OUT (G) A9	4POLE OUT (BVI) A9	TO EBB BOARD CN137	GND A5	CN520	22P			
MG FOCUS (GH) C8	4POLE OUT (RVI) C8	EGG BOARD CN132	GND B5	16P				
NC B8	NC B8	CN512	-15V A6	L O T PROT A1				
GND A8	4POLE OUT (BHI) A8	10P	GND B6	H STOP B1				
GND C7	4POLE OUT (RHI) C7	2P OUT RH A1	CLAMP P A7	V DEF DET A2				
NC B7	NC B7	2P RET RH B1	GND B7	FAN PROT B2				
DHP OUT (G) A7	4POLE RET (BHI) A7	2P OUT RV A2	HD A8	G2 CONT (R) A3				
MG FOCUS (GVI) C6	4POLE RET (RHI) C6	2P RET RV B2	GND B8	G2 CONT (B) A4				
NC B6	NC B6	NC A3	VD A9	LOT DRV A5				
GND A6	4POLE RET (BVI) A6	NC B3	BLKG P A10	HEATER (H) A6				
GND C5	4POLE RET (RVI) C5	4P OUT RH A4	GND B9	HEATER (C) B6				
NC B5	NC B5	4P RET RH B4		NC A7				
AHP OUT (B) A5	6POLE OUT (BVI) A5	4P OUT RV A5		NC B7				
MG FOCUS (BHI) C4	6POLE OUT (RVI) C4	4P RET RV B5		-175V A8				
NC B4	NC B4			-175V B8				
GND A4	6POLE OUT (BHI) A4							
GND C3	6POLE OUT (RHI) C3							
SP7 B3	6POLE RET (BHI) A3							
DHP OUT (B) A3	6POLE RET (RHI) C2							
MG FOCUS (BVI) C2	V DEF DET A2							
SP8 B2	GND A2							
GND A2	GND C1							
DE PROT B1	V STOP B1							
GND A1	GND A1							

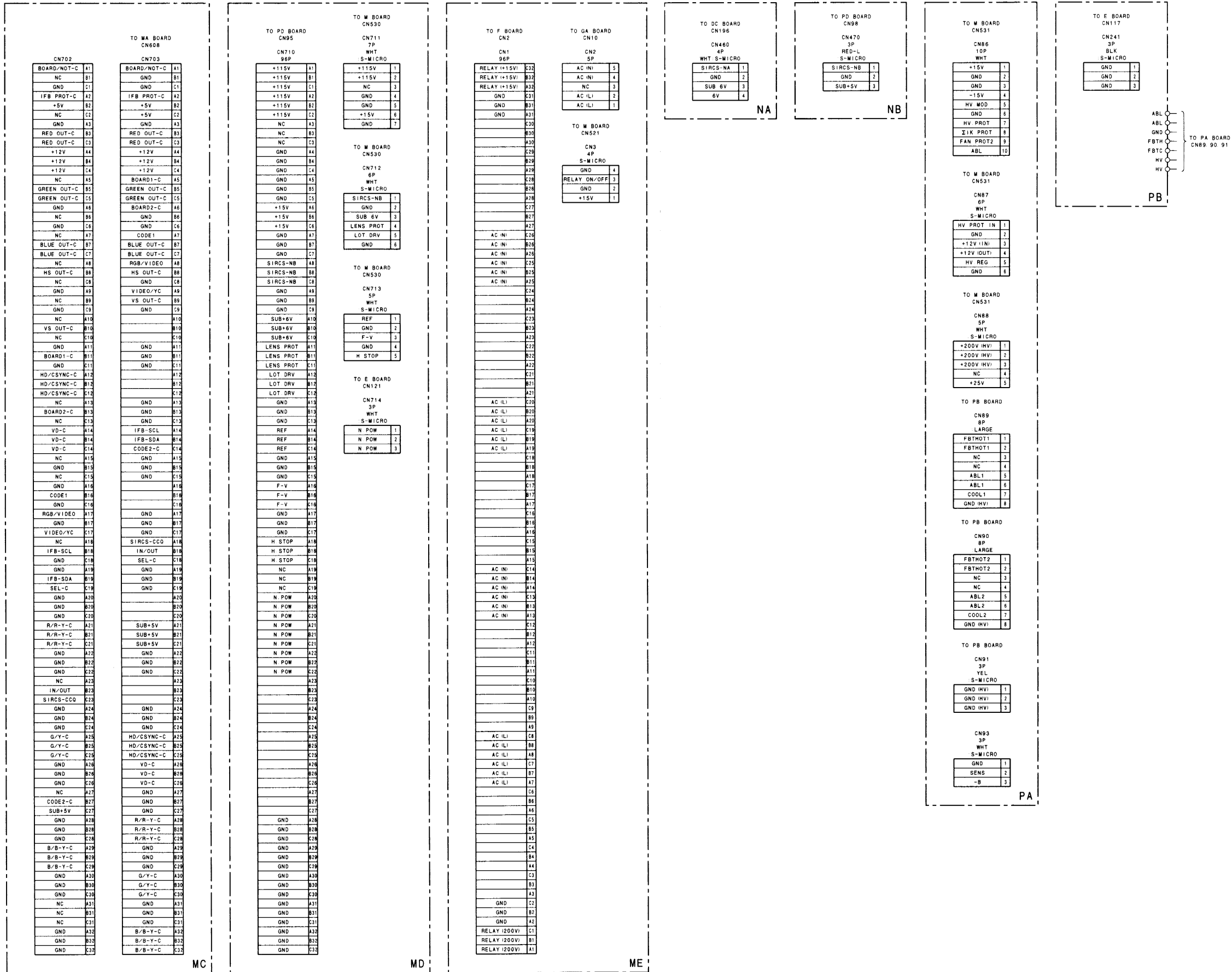
FRAME (9/11) WIRING

TO M BOARD CN500	TO M BOARD CN501	TO YA BOARD CN420	TO YA BOARD CN421	TO BA BOARD CN340	TO BA BOARD CN341	TO BC BOARD CN380	TO MB BOARD CN701	TO MC BOARD CN703	CN700 INPUT-B 96PIN L-F	TO MA BOARD CN607 INPUT-B 96PIN L-M
CN600 96P	CN601 96P	CN602 96P	CN603 96P	CN604 96P	CN605 96P	CN606 96P	CN607 96P	CN608 96P	CN609 96P	CN610 96P
GND C32	+15V C32	GND A1	GND A1	A1	-15V A1	+6V A1	BOARD/NOT-B A1	BOARD/NOT-B A1	BOARD/NOT-B A1	BOARD/NOT-B A1
GND B32	+15V B32	GND B1	GND B1	B1	-15V B1	RED B1	GND B1	GND B1	NC B1	NC B1
GND C32	+15V C32	GND C1	GND C1	C1	-15V C1	RED C1	GND C1	GND C1	GND C1	GND C1
SIRCS-RC C31	+15V C31	SIRCS RC A2	+15V A2	A2	GND A2	+6V A2	IFB PROT-B A2	IFB PROT-B A2	IFB PROT-B A2	IFB PROT-B A2
RCON B31	+15V B31	RCON B2	TEST IRE B2	B2	GND B2	GND B2	+5V B2	+5V B2	+5V B2	+5V B2
GND A31	+15V A31	GND A3	OSD-R B3	B3	GND A3	+5V A3	GND A3	GND A3	GND A3	GND A3
C30	GND C30	SIRCS NB C3	OSD-R C3	C3	+15V C3	GREEN C3	RED OUT-B C3	RED OUT-B C3	RED OUT-B C3	RED OUT-B C3
SIRCS NB B30	GND B30	SIRCS CCG A4	OSD-G B4	B4	R MOD A4	+5V A4	+12V A4	+12V A4	+12V A4	+12V A4
GND A30	GND A30	SIRCS NA C4	OSD-G C4	C4	G MOD A4	GND A4	+12V A4	+12V A4	+12V A4	+12V A4
B29	GND B29	GND A5	OSD-B B5	B5	GND A5	BLUE B5	BOARD1-B A5	BOARD1-B A5	BOARD1-B A5	BOARD1-B A5
SIRCS NA A29	GND A29	GND B5	OSD-B C5	C5	GND B5	BLUE C5	GREEN OUT-B B5	GREEN OUT-B B5	GREEN OUT-B B5	GREEN OUT-B B5
GND C28	GND C28	GND C6	OSD-V B6	B6	GND C5	IN/OUT A6	BOARD2-B A6	BOARD2-B A6	BOARD2-B A6	BOARD2-B A6
GND B28	GND B28	LINK A7	OSD-V C6	C6	TEST IRE A6	HS-IFB B6	GND B6	GND B6	NC B6	NC B6
GND A28	GND A28	CLAMP P C29	OSD-BRT B7	B7	VD C6	SEL-B A7	CODE1 A7	CODE1 A7	CODE1 A7	CODE1 A7
HV PROT OUT C27	GND C27	LINK A7	OSD-BRT C7	C7	OSD-R A7	VS-IFB B7	BLUE OUT-B B7	BLUE OUT-B B7	BLUE OUT-B B7	BLUE OUT-B B7
LOT PROT B27	GND B27	CLAMP P C29	OSD-BRT C7	C7	OSD-R B7	VS-IFB C7	BLUE OUT-B C7	BLUE OUT-B C7	BLUE OUT-B C7	BLUE OUT-B C7
IK A27	GND A27	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RGB/VIDEO A8	RGB/VIDEO A8	RGB/VIDEO A8	RGB/VIDEO A8	RGB/VIDEO A8
C26	GND C26	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	HS OUT-B B8	HS OUT-B B8	HS OUT-B B8	HS OUT-B B8	HS OUT-B B8
LENS PROT B26	GND B26	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
SUB PROT A26	GND A26	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
CRT PROT R C25	GND C25	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
CRT PROT G B25	GND B25	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
CRT PROT B A25	GND A25	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
DA PROT C24	ABL IK-R C24	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
DB PROT B24	ABL IK-G B24	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
DD PROT A24	ABL IK-B A24	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
DE PROT C23	ABG-R C23	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
H STOP B23	ABG-G B23	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
V STOP A23	ABG-B A23	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
EBR PROT C22	LIMIT-R C22	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
EBG PROT B22	LIMIT-G B22	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
EBB PROT A22	LIMIT-B A22	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
P1 PROT C21	DRV-R C21	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
P2 PROT B21	DRV-G B21	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
P3 PROT A21	DRV-B A21	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
P4 PROT C20	BKG-R C20	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
FAN PROT B20	BKG-G B20	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
POLA PROT A20	BKG-B A20	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
EBG PROT C19	ON/OFF-R C19	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
EBH PROT B19	ON/OFF-G B19	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
FAN2 PROT A19	ON/OFF-B A19	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
C18	ABG ON/OFF C18	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
P CONT B18	CONTR B18	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
P CONT A18	GND C17	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
GND C17	GND C17	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
GND B17	GND B17	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
GND A17	GND A17	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
HD C16	B MOD B16	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
GND B16	G MOD B16	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
VD A16	R MOD A16	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
HS C15	GND C15	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
GND B15	GND B15	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
VS A15	GND A15	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
GND C14	GND C14	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
GND B14	GND B14	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
GND A14	GND A14	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
C13	M1 C13	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
B13	D-RESET B13	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
F-V A13	D-SCN A13	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
C12	M2 C12	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
GND B12	D-LD0 B12	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
GND A12	D-SDA0 A12	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
SUB+6V C11	M3 C11	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
SUB+6V B11	D-LD1 B11	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
SUB+6V A11	D-SDA1 A11	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
SUB+6V C10	M4 C10	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
SUB+6V B10	D-LD2 B10	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
SUB+6V A10	D-SDA2 A10	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
+6V C9	M5 C9	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
+6V B9	D-LD3 B9	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
+6V A9	ABG-B A9	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
+6V C8	12C-SC1 C8	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
+6V B8	GND B8	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
+6V A8	GND A8	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
GND C7	GND C7	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
GND B7	12C-SDA1 B7	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
GND A7	G MOD A7	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
-15V C3	GND C3	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
-15V B3	GND B3	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
-15V A3	GND A3	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
-15V C2	G2 CONT-R C2	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
-15V B2	G2 CONT-G B2	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
-15V A2	G2 CONT-B A2	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
GND C1	GND C1	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
GND B1	GND B1	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8
GND A1	GND A1	CLAMP P C29	OSD-BRT C7	C7	OSD-R C7	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8	RED OUT-B C8

MA

MB

FRAME (10/11) WIRING



FRAME (11/11) WIRING

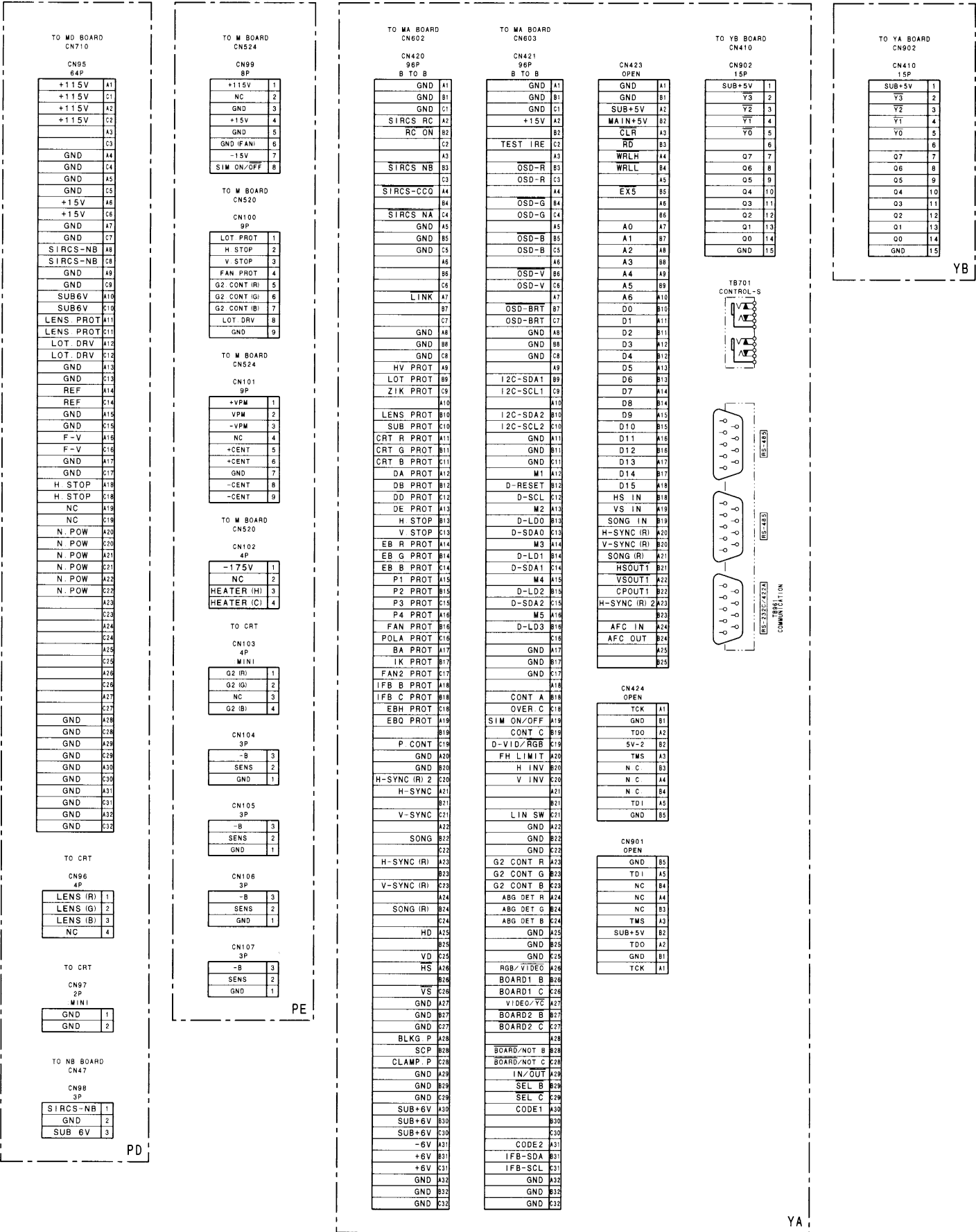
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4

5



10-2. SCHEMATIC DIAGRAMS/PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted.
PF: 50 WV or less are not indicated except for electorlytics.
- All electrolytics are in 50 V unless otherwise specified.
- All resistors are in ohms, 1/4 W in resistance, 1/10 W in chip resistance.
 $\text{k}\Omega = 100$, $\text{M}\Omega = 1000 \text{ k}\Omega$
- : nonflammable resistor.
- : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- METAL FILM (: RN) resister in 0.5 %, 1/4 W unless otherwise specified.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
Should replacement be requited, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated, If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved.
(Refer to RV100, RV250 on page 4-1, RV965 on page 4-2.)

Board	Part replaced ()	Adjustment ()
PA	C155, C157 R109, R111, R112, R114, R117, R118, R104, R105, R106, R107, R108, R120, R121, R157, R158 RV101, RV150 IC101, IC102, IC100, IC152, IC153 PH500	RV100 (HV. REGULATOR)
	C250 R250, R251, R252, R253, R256, R257, R258, R259, R260 D252, D253 IC250, IC251	RV250 (HV. PROTECTOR)
	C607, C608, C610, C611 L601, L602, L603, L604	RV100 (HV. REGULATOR) RV250 (HV. PROTECTOR)
PB	FBT10, FBT11	
CDR CDG CDB	R971, R972, R973, R974, R975 D960, D965 IC961, IC971	RV965 (CRT PROTECTOR)
	R960, R967, R1007 IC990	OPERATION CHECK (IK PROTECTOR)
BA	R839, R841, R847, R855, R848, R870, R873, R872, R877, R876 D806 IC804	

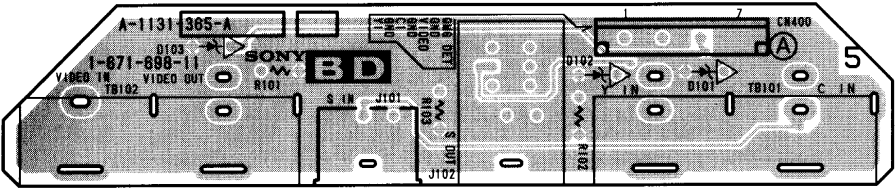
The components identified by mark are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque sont critiques
pour la securite. Ne les remplacer que par une piece portant
le numero specifie.

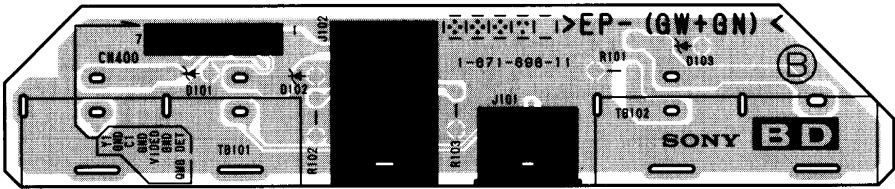
- When the power supply block has been replaced, check that the +B MAX voltage is within $200 \pm 2\text{V}$.
- All voltages are in V.
- Voltage variations may be noted due to normal production tolerances.
- Readings are taken with Composite Video and Component (R.G.B. HD, VD) color-bar signal input from color-bar pattern generator.
- Voltage are dc with respect to ground unless otherwise noted.
- no mark : Composite Video signal and common voltage.
() : Component (R.G.B. HD, VD) signal received.
- : B+ bus.
- : B- bus.
- : signal path.
- Circled numbers are waveform reference.

- Reference information
- RESISTOR : RN METAL FILM
: RC SOLID
: FPRD NONFLAMMABLE CARBON
: FUSE NONFLAMMABLE FUSIBLE
: RS NONFLAMMABLE METAL OXIDE
: RB NONFLAMMABLE CEMENT
: RW NONFLAMMABLE WIREWOUND
: LF-8L MICRO INDUCTOR
- COIL : TA TANTALUM
- CAPACITOR : PS STYROL
: PP POLYPROPYLENE
: PT MYLAR
: MPS METALIZED POLYESTER
: MPP METALIZED POLYPROPYLENE
: ALB BIPOLAR
: ALT HIGH TEMPERATURE
: ALR HIGH RIPPLE

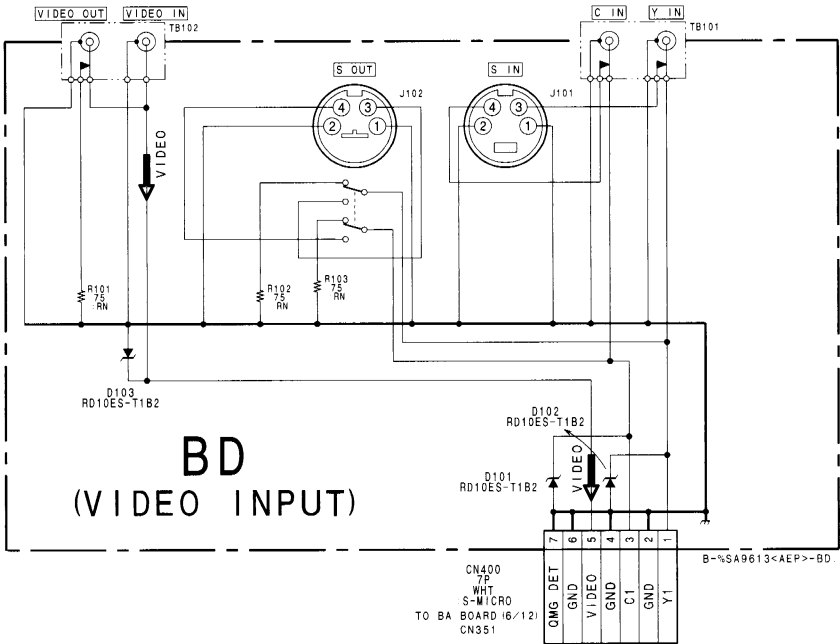
BD BOARD (EXCEPT VPH-G90E)



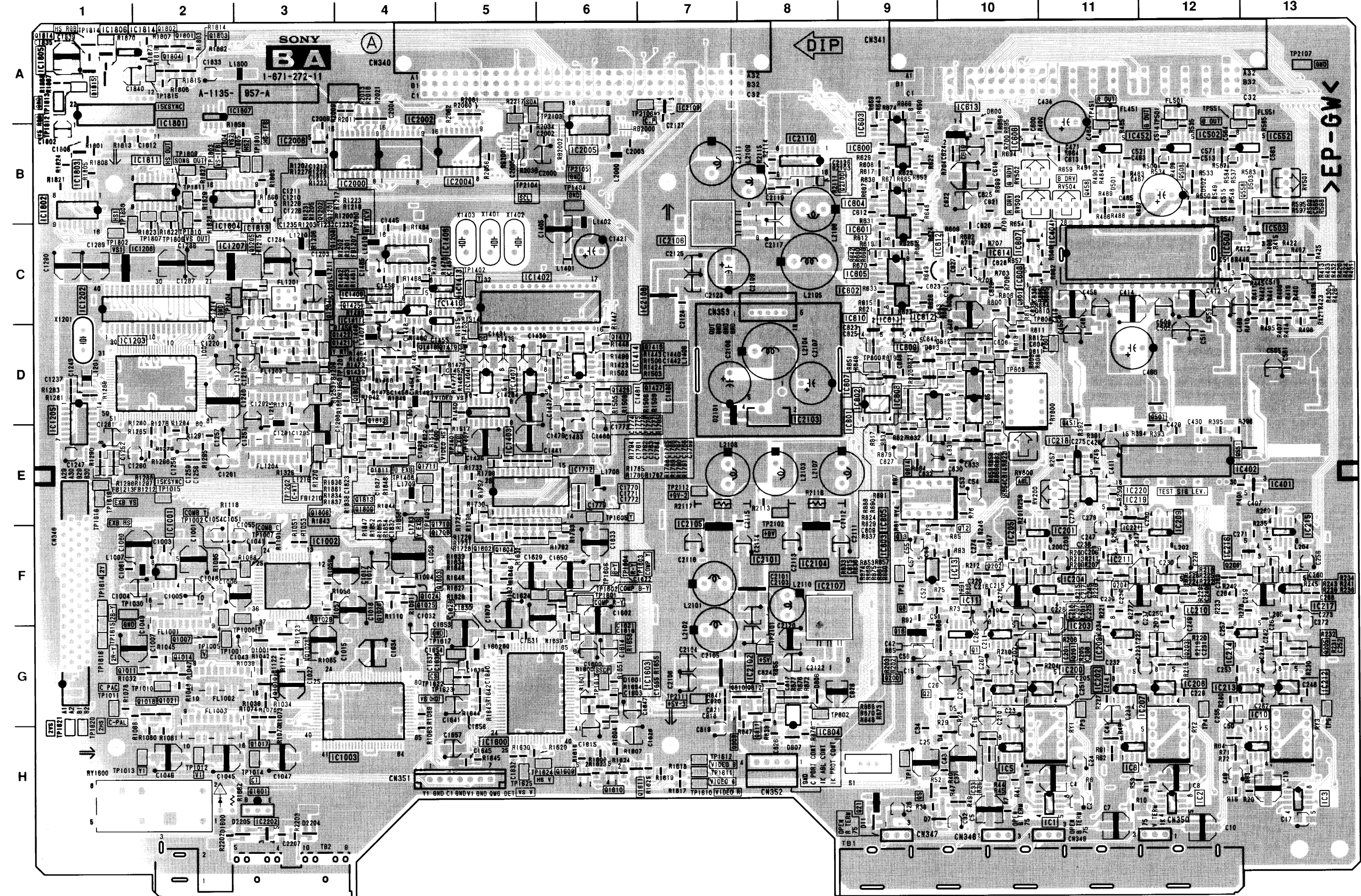
BD -A SIDE-
SUFFIX: -11



BD -B SIDE-
SUFFIX: -11



BA BOARD

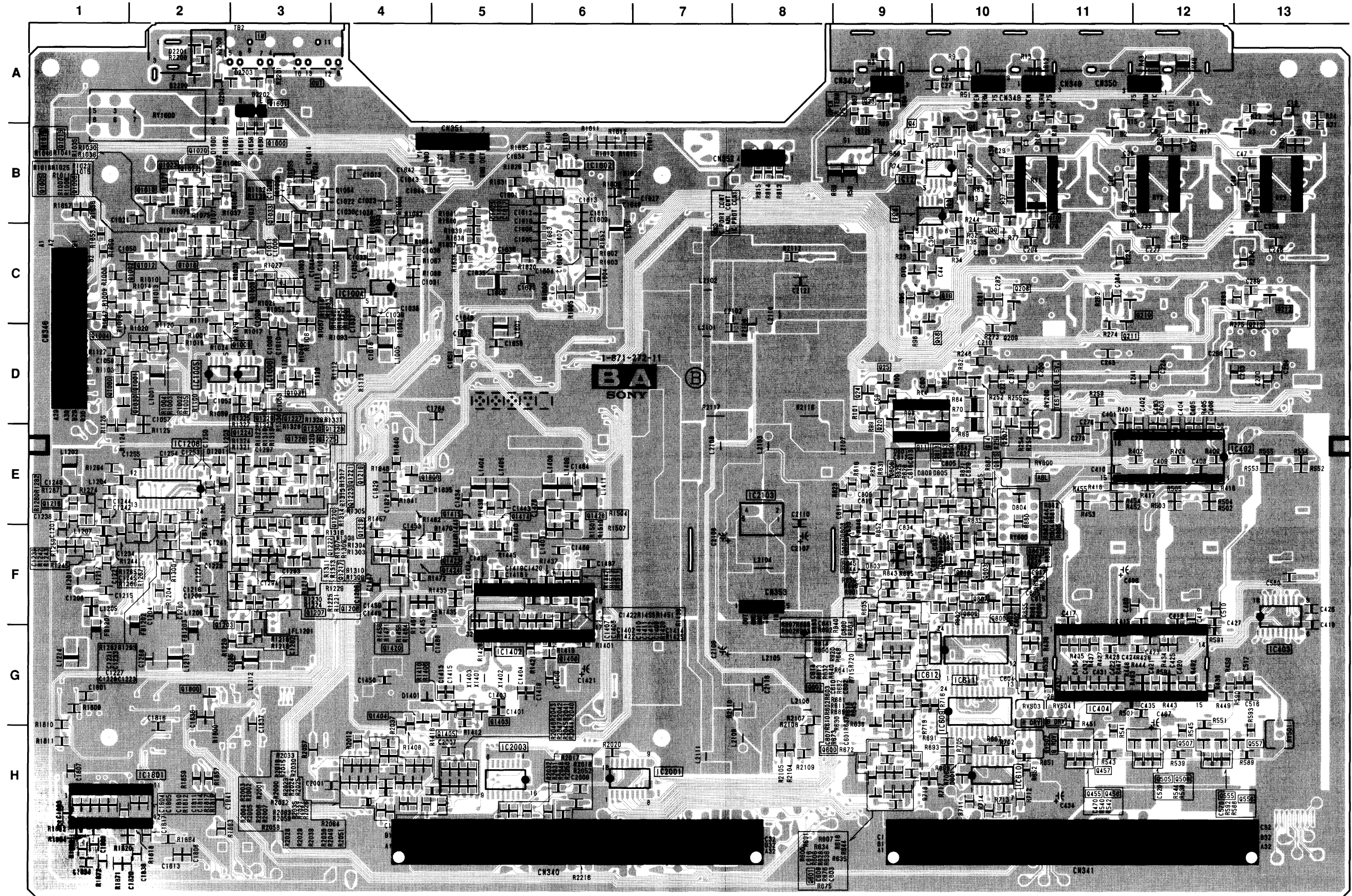


BA -A SIDE-
SUFFIX: -11

BA BOARD (A SIDE)

D4	H-9	IC1408	C-5	Q1609	H-6	TP1810	C-2
D5	G-10	IC1409	C-4	Q1610	H-6	TP1811	B-2
D7	H-9	IC1410	C-5	Q1611	H-6	TP1812	B-1
D11	H-9	IC1411	C-4	Q1709	F-5	TP1813	A-1
D501	B-11	IC1413	C-5	Q1710	E-5	TP1814	A-1
D502	B-12	IC1414	D-6	Q1711	E-4	TP1815	A-2
D503	B-13	IC1600	H-5	Q1801	A-2	TP2101	G-8
D600	A-10	IC1603	G-7	Q1802	A-2	TP2102	F-8
D806	G-8	IC1712	E-6	Q1803	A-2	TP2103	A-6
D807	H-8	IC1801	A-2	Q1804	A-2	TP2104	B-5
D810	C-11	IC1802	B-1	Q1807	D-4	TP2105	B-6
D811	D-10	IC1803	B-1	Q1808	E-3	TP2106	A-7
D812	D-10	IC1804	C-2	Q1809	E-4	TP2107	A-13
D813	D-9	IC1805	A-1	Q1811	E-4	TP2111	G-7
D1001	G-3	IC1806	A-1	Q1812	D-4	TP2112	E-7
D1600	H-2	IC1807	A-3	Q1813	E-4		
D1601	G-6	IC1811	B-2	Q1814	A-1		
D2101	D-7	IC1813	C-3	Q1815	A-1		
D2204	H-3	IC1814	A-2	Q2100	B-9		
D2205	H-3	IC2000	B-4				
		IC2002	A-4	RV200	E-10		
IC1	H-11	IC2004	B-5	RV501	B-13		
IC2	H-12	IC2005	B-6	RV502	B-10		
IC3	H-13	IC2008	B-3	RV503	B-10		
IC5	H-10	IC2101	F-8	RV504	B-11		
IC8	H-11	IC2102	G-8	RV800	E-10		
IC10	G-13	IC2103	D-8				
IC11	F-10	IC2104	F-8	TP1	H-9		
IC13	F-10	IC2105	F-7	TP3	H-11		
IC20	G-11	IC2106	C-7	TP4	H-12		
IC201	F-11	IC2107	F-8	TP5	H-13		
IC202	G-11	IC2108	C-7	TP451	A-11		
IC203	G-11	IC2109	A-7	TP501	A-12		
IC204	F-11	IC2110	B-8	TP551	A-12		
IC205	F-10	IC2002	H-3	TP800	D-9		
IC206	G-12			TP801	D-11		
IC207	G-11	Q1	G-10	TP802	G-8		
IC208	G-11	Q2	G-9	TP803	D-10		
IC209	F-12	Q5	H-9	TP804	C-11		
IC210	F-12	Q8	F-9	TP1000	G-3		
IC211	F-11	Q12	F-10	TP1001	G-2		
IC212	G-13	Q13	F-9	TP1002	E-2		
IC213	G-12	Q18	G-9	TP1005	G-2		
IC214	G-12	Q21	H-9	TP1007	F-3		
IC215	F-13	Q200	G-9	TP1010	G-2		
IC216	F-12	Q201	G-11	TP1011	G-1		
IC217	F-13	Q202	F-10	TP1012	H-2		
IC218	E-11	Q203	G-12	TP1013	H-1		
IC219	E-11	Q204	F-11	TP1014	H-3		
IC220	E-11	Q205	G-13	TP1015	E-2		
IC221	F-11	Q208	F-12	TP1030	F-1		
IC401	E-13	Q451	E-11	TP1200	C-4		
IC402	E-13	Q458	B-11	TP1201	D-4		
IC404	C-11	Q501	D-12	TP1202	E-3		
IC452	B-11	Q508	B-12	TP1204	C-2		
IC502	B-12	Q551	E-12	TP1400	E-4		
IC503	C-13	Q558	B-13	TP1401	E-5		
IC504	C-12	Q801	C-10	TP1402	C-5		
IC552	B-13	Q809	H-7	TP1403	D-5		
IC600	B-9	Q810	G-7	TP1404	B-6		
IC601	C-9	Q811	H-8	TP1405	E-4		
IC602	C-9	Q812	G-8	TP1406	E-4		
IC603	B-9	Q814	E-9	TP1407	E-5		
IC604	B-9	Q1007	G-2	TP1601	F-6		
IC605	C-9	Q1010	G-3	TP1602	F-6		
IC606	B-10	Q1011	G-1	TP1603	F-6		
IC607	C-10	Q1014	G-2	TP1604	F-6		
IC608	C-10	Q1017	H-3	TP1605	E-6		
IC612	C-9	Q1018	G-2	TP1606	F-6		
IC613	A-10	Q1021	G-2	TP1610	H-7		
IC614	C-10	Q1024	F-4	TP1611	H-7		
IC801	E-9	Q1025	F-4	TP1612	H-7		
IC802	D-9	Q1026	F-4	TP1613	G-6		
IC803	F-9	Q1028	G-3	TP1614	F-1		
IC804	H-8	Q1029	F-3	TP1615	G-1		
IC805	E-9	Q1201	B-3	TP1616	G-1		
IC807	D-9	Q1202	B-3	TP1617	G-5		
IC808	D-9	Q1204	C-3	TP1618	E-1		
IC809	D-9	Q1205	C-3	TP1619	E-1		
IC810	C-9	Q1208	C-3	TP1620	H-1		
IC811	C-9	Q1413	D-4	TP1621	H-1		
IC812	C-9	Q1416	D-7	TP1622	G-4		
IC1001	E-2	Q1417	D-6	TP1623	G-5		
IC1002	F-3	Q1419	D-5	TP1624	H-6		
IC1003	H-4	Q1421	D-4	TP1625	H-5		
IC1202	C-1	Q1422	D-4	TP1800	B-1		
IC1203	D-1	Q1425	C-4	TP1801	B-3		
IC1205	D-1	Q1426	D-6	TP1802	C-1		
IC1207	C-2	Q1427	D-7	TP1803	B-2		
IC1208	C-2	Q1429	D-4	TP1804	B-2		
IC1402	C-5	Q1601	H-3	TP1805	B-3		
IC1403	E-5	Q1602	F-5	TP1806	C-2		
IC1404	D-5	Q1603	F-5	TP1807	C-2		
IC1407	D-5	Q1604	F-4	TP1809	B-2		

BA BOARD

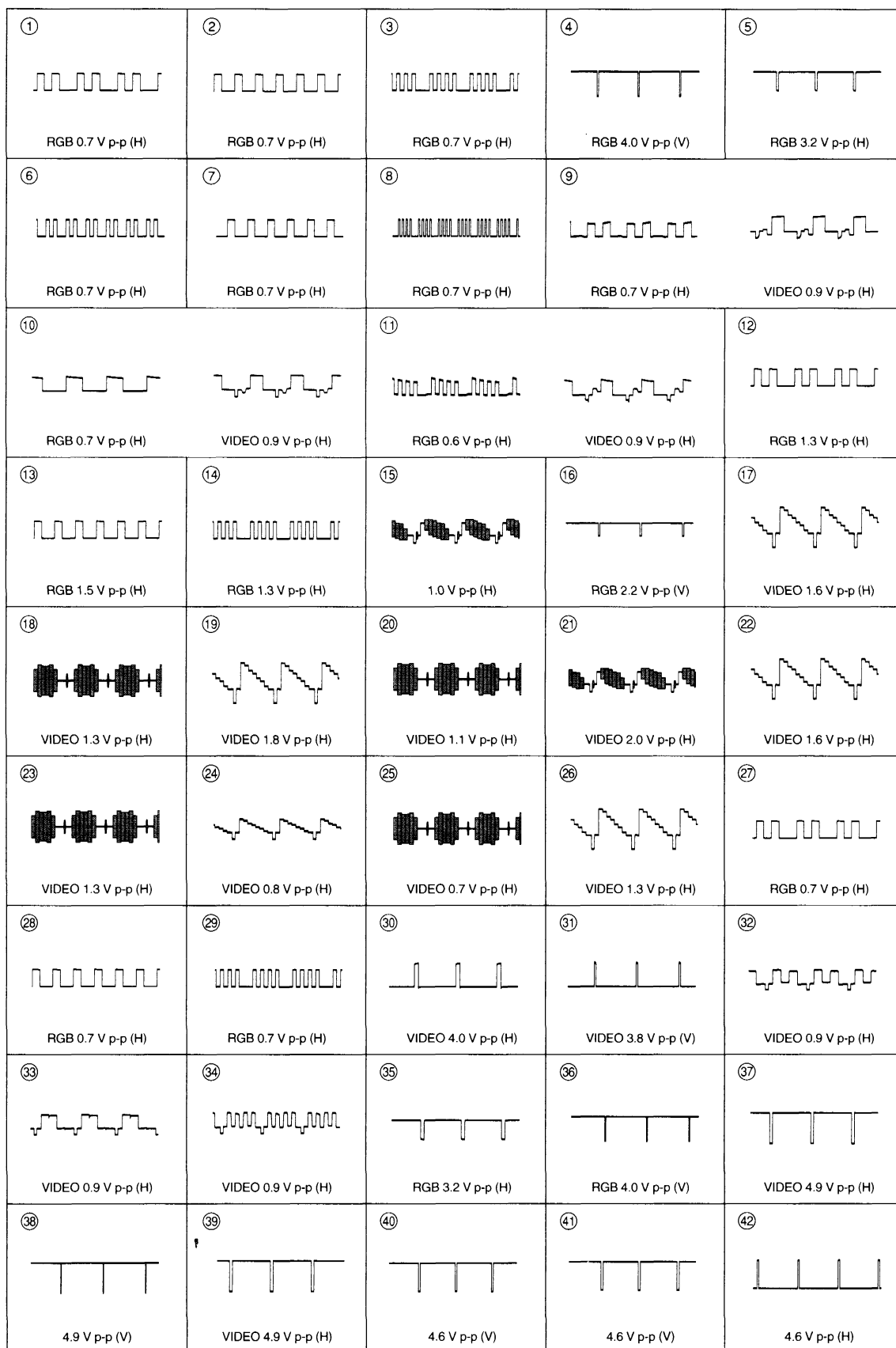


BA -B SIDE-
SUFFIX: -11

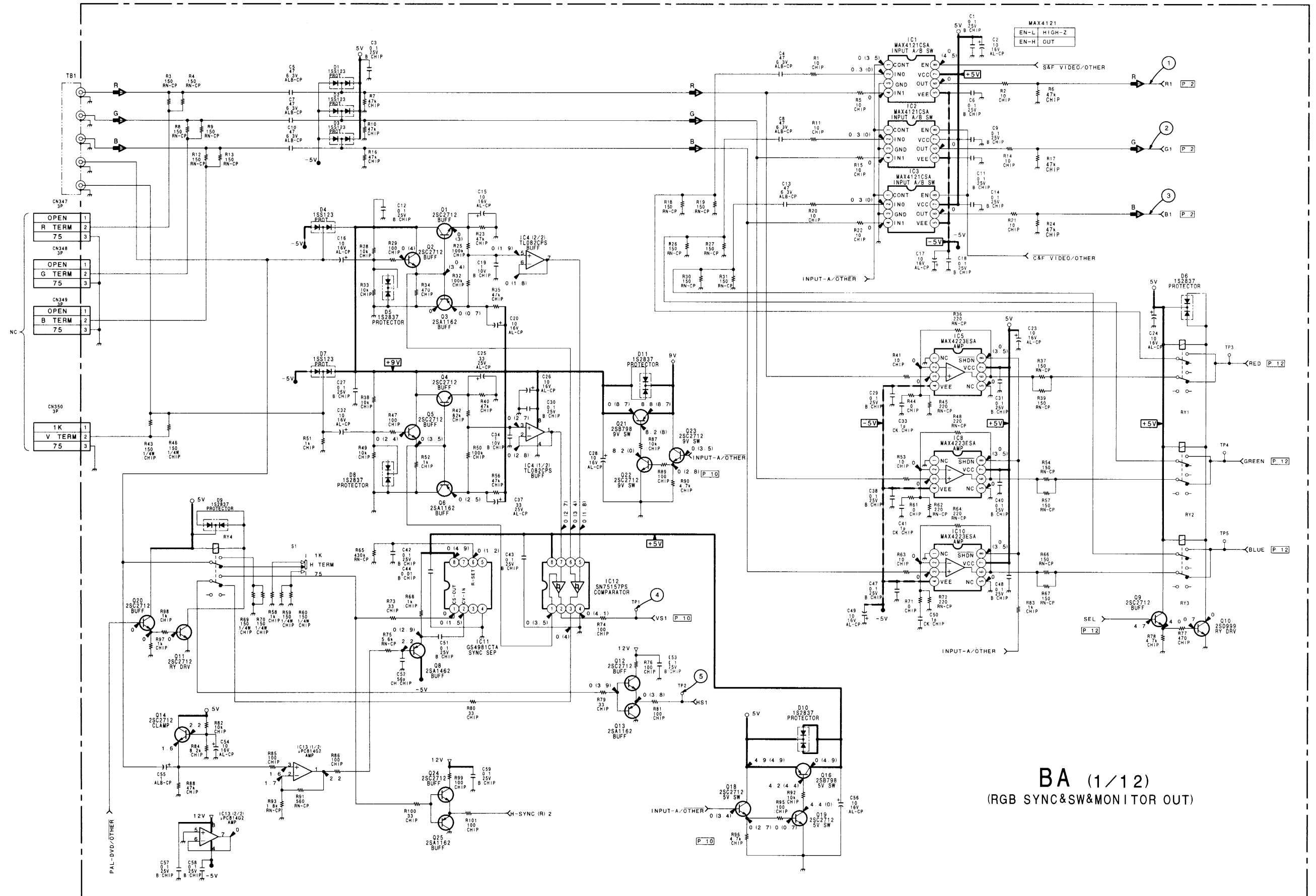
BA BOARD (B SIDE)

D1	B-10	Q1008	C-3
D2	B-11	Q1009	D-3
D3	B-13	Q1012	C-2
D6	C-10	Q1013	B-1
D8	A-10	Q1015	B-1
D9	E-10	Q1016	C-2
D10	C-9	Q1019	B-2
D601	H-10	Q1020	B-2
D800	G-9	Q1022	B-2
D801	E-9	Q1023	B-2
D802	F-10	Q1030	D-2
D803	F-9	Q1031	D-3
D804	E-10	Q1033	B-3
D805	E-10	Q1203	F-2
D808	F-9	Q1206	F-4
D809	E-9	Q1207	F-3
D1201	E-2	Q1217	F-4
D1401	G-4	Q1218	E-1
D1600	B-2	Q1218	E-4
D2200	A-2	Q1219	F-4
D2201	A-2	Q1220	E-4
D2202	A-3	Q1221	E-4
D2203	A-3	Q1222	F-3
		Q1223	E-4
IC12	B-9	Q1224	E-3
IC14	B-9	Q1225	E-3
IC402	E-13	Q1226	E-3
IC403	G-13	Q1227	D-3
IC404	G-11	Q1228	E-4
IC609	G-10	Q1229	D-3
IC610	H-10	Q1230	E-3
IC611	G-10	Q1403	G-5
IC612	G-9	Q1404	G-4
IC1004	C-4	Q1405	H-5
IC1005	D-2	Q1408	G-6
IC1006	D-3	Q1414	E-5
IC1206	E-2	Q1415	E-5
IC1402	G-5	Q1420	G-4
IC1602	B-6	Q1423	F-5
IC1801	H-2	Q1424	F-5
IC2001	H-7	Q1428	E-6
IC2003	H-5	Q1600	B-3
IC2103	E-8	Q1601	A-3
		Q1800	G-2
		Q1808	E-4
Q3	B-8		
Q4	B-9		
Q8	B-8	RV200	D-11
Q9	C-10	RV501	H-13
Q10	B-11	RV502	H-11
Q11	E-9	RV503	G-10
Q14	E-10	RV504	G-11
Q18	D-10	RV800	E-11
Q19	C-10		
Q20	D-9		
Q22	B-9		
Q23	A-9		
Q24	D-9		
Q25	D-9		
Q207	E-10		
Q208	C-10		
Q209	D-10		
Q210	C-12		
Q211	D-11		
Q212	C-13		
Q213	C-13		
Q455	H-11		
Q456	H-11		
Q457	H-11		
Q505	H-12		
Q506	H-12		
Q507	H-12		
Q555	H-12		
Q556	H-13		
Q557	H-13		
Q600	H-8		
Q601	H-8		
Q602	G-8		
Q800	F-10		
Q802	F-10		
Q803	F-9		
Q805	F-10		
Q807	F-10		
Q808	E-9		
Q809	F-10		
Q813	E-10		
Q815	E-10		
Q816	F-10		
Q817	F-10		
Q1000	D-1		
Q1001	D-2		
Q1002	C-2		
Q1004	D-1		
Q1005	B-1		
Q1006	B-1		

BA BOARD WAVEFORMS

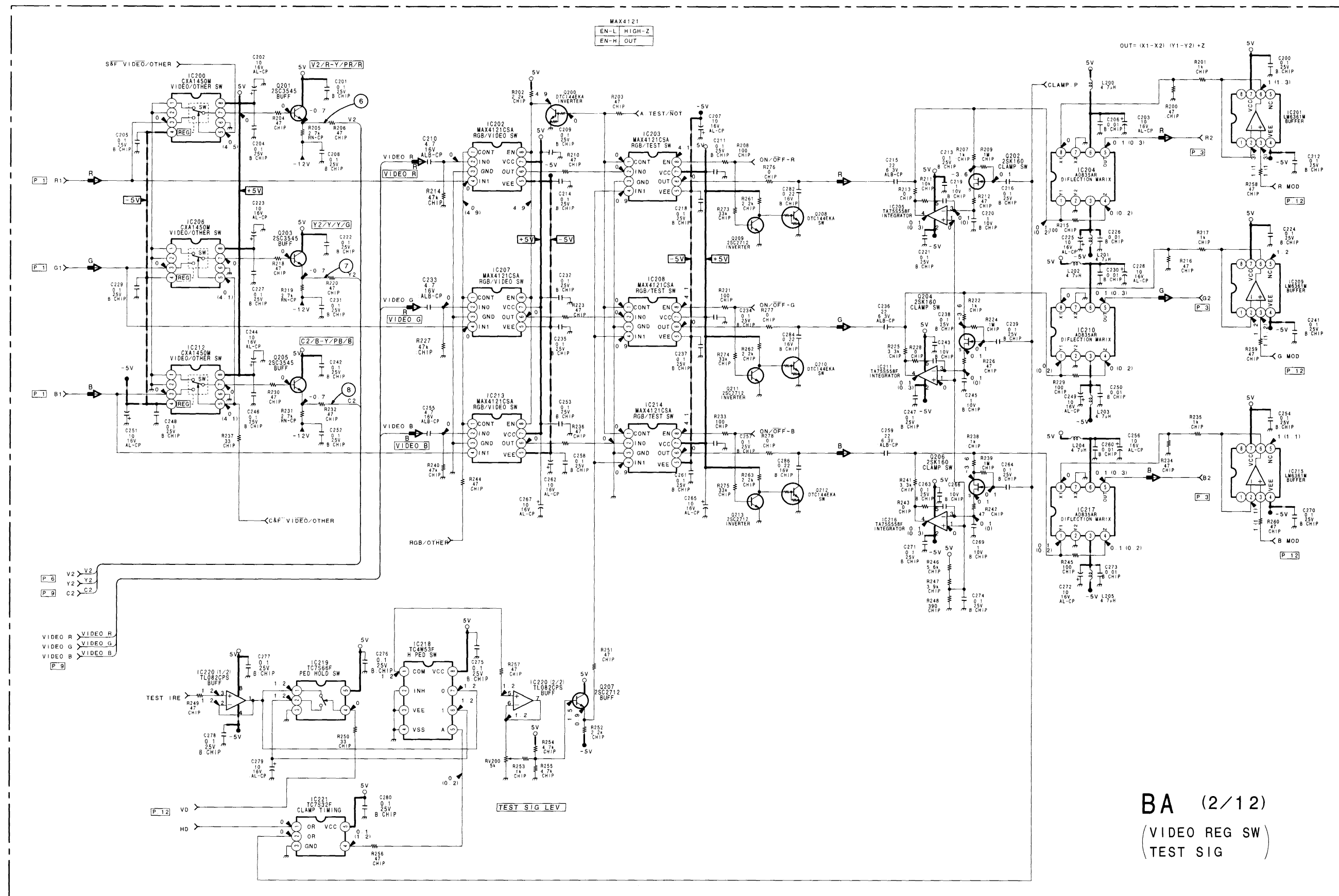


BA (1/12) BOARD



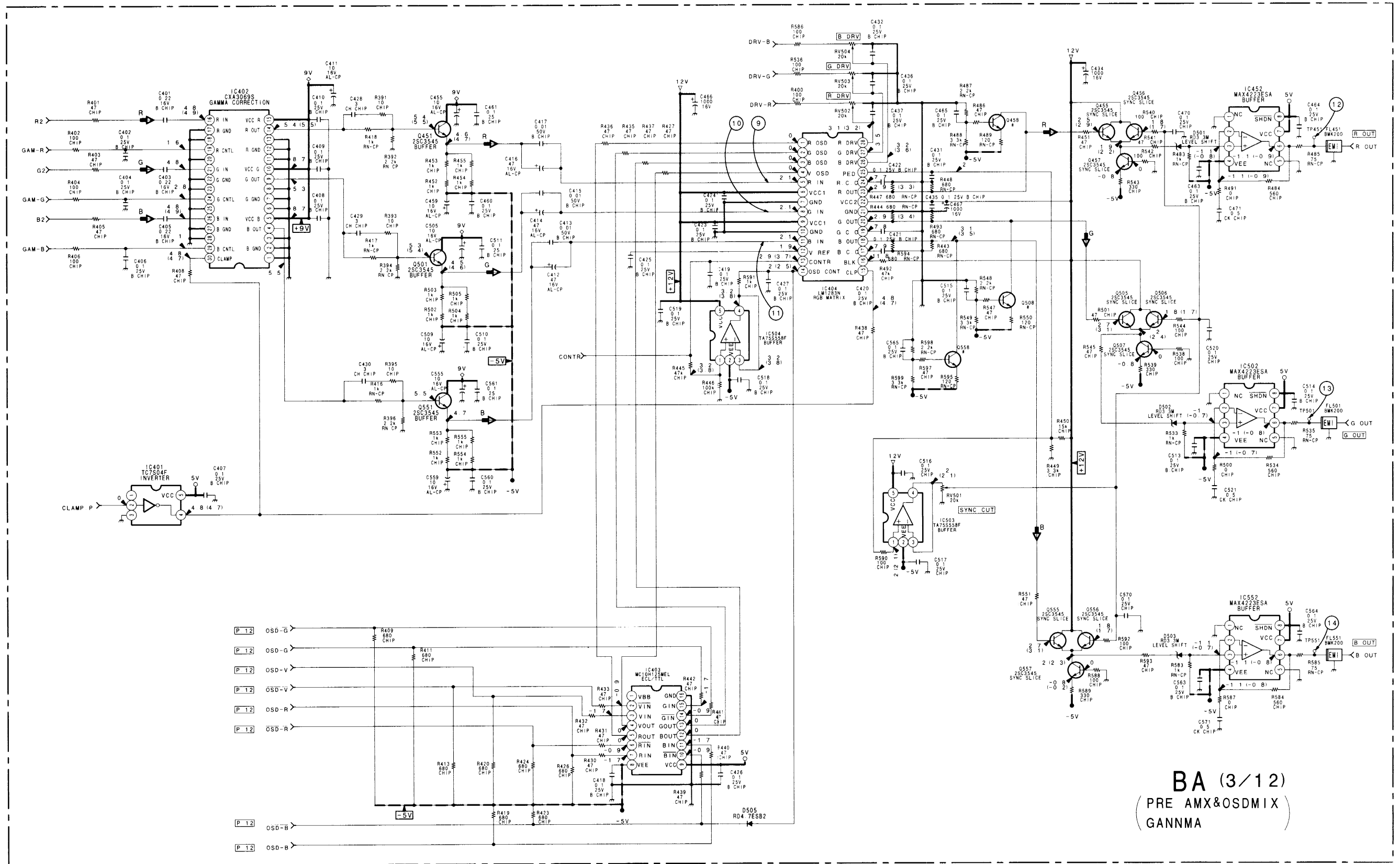
BA (1/12)
(RGB SYNC&SW&MONITOR OUT)

BA (2/12) BOARD

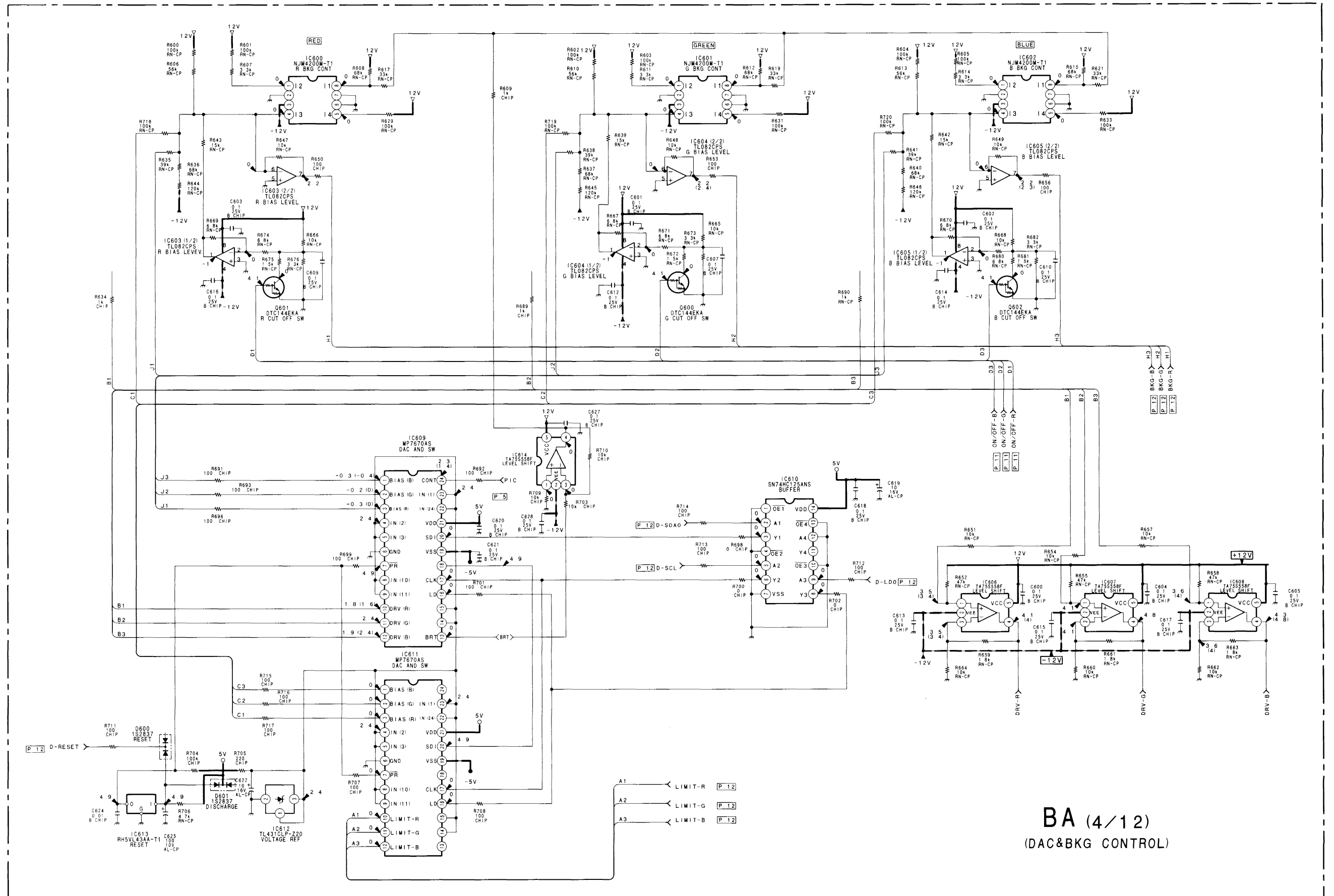


BA (2/12)
(VIDEO REG SW)
(TEST SIG)

BA (3/12) BOARD

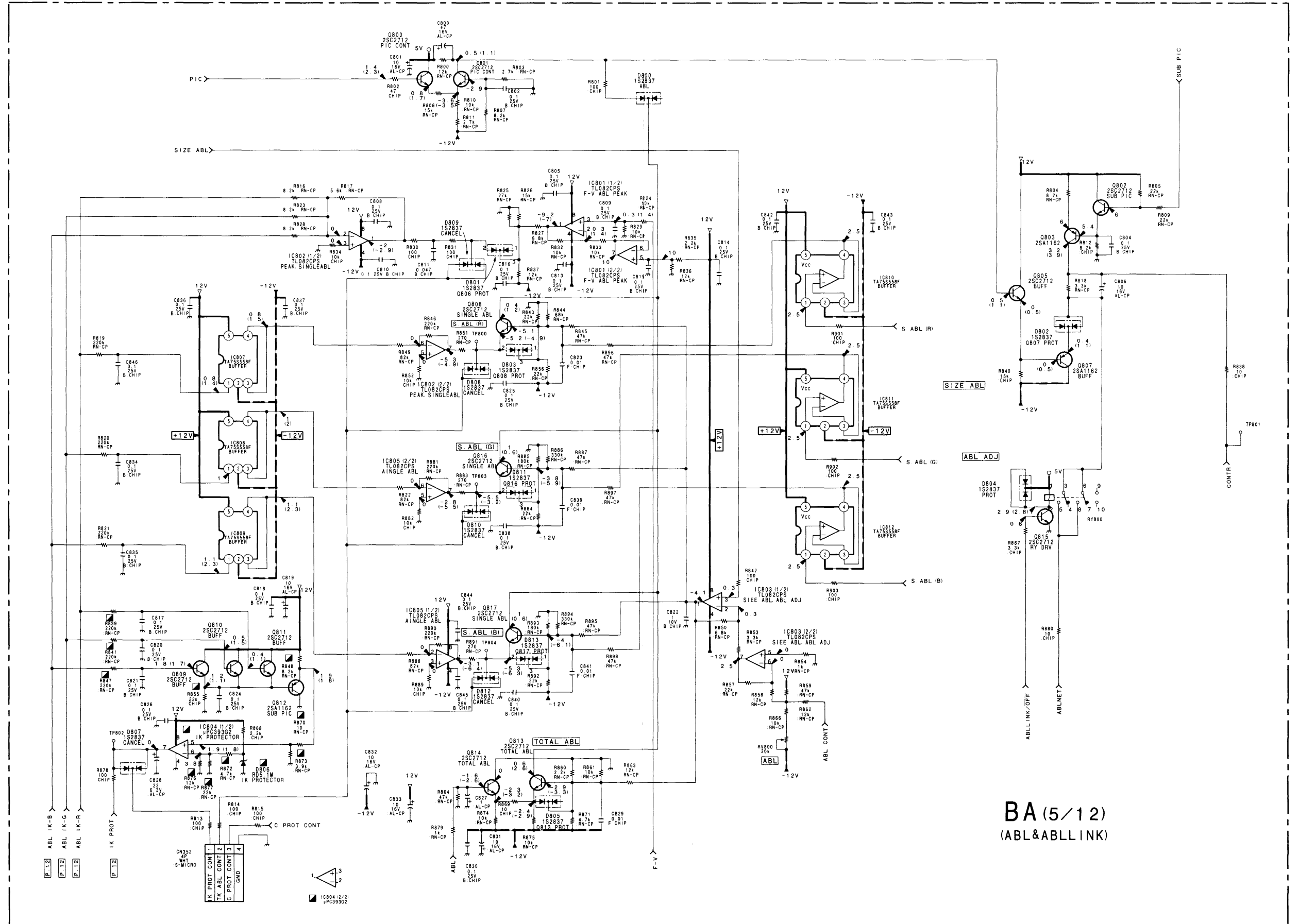


BA (4/12) BOARD



BA (4/12)
(DAC&BKG CONTROL)

BA (5/12) BOARD



1

2

3

4

5

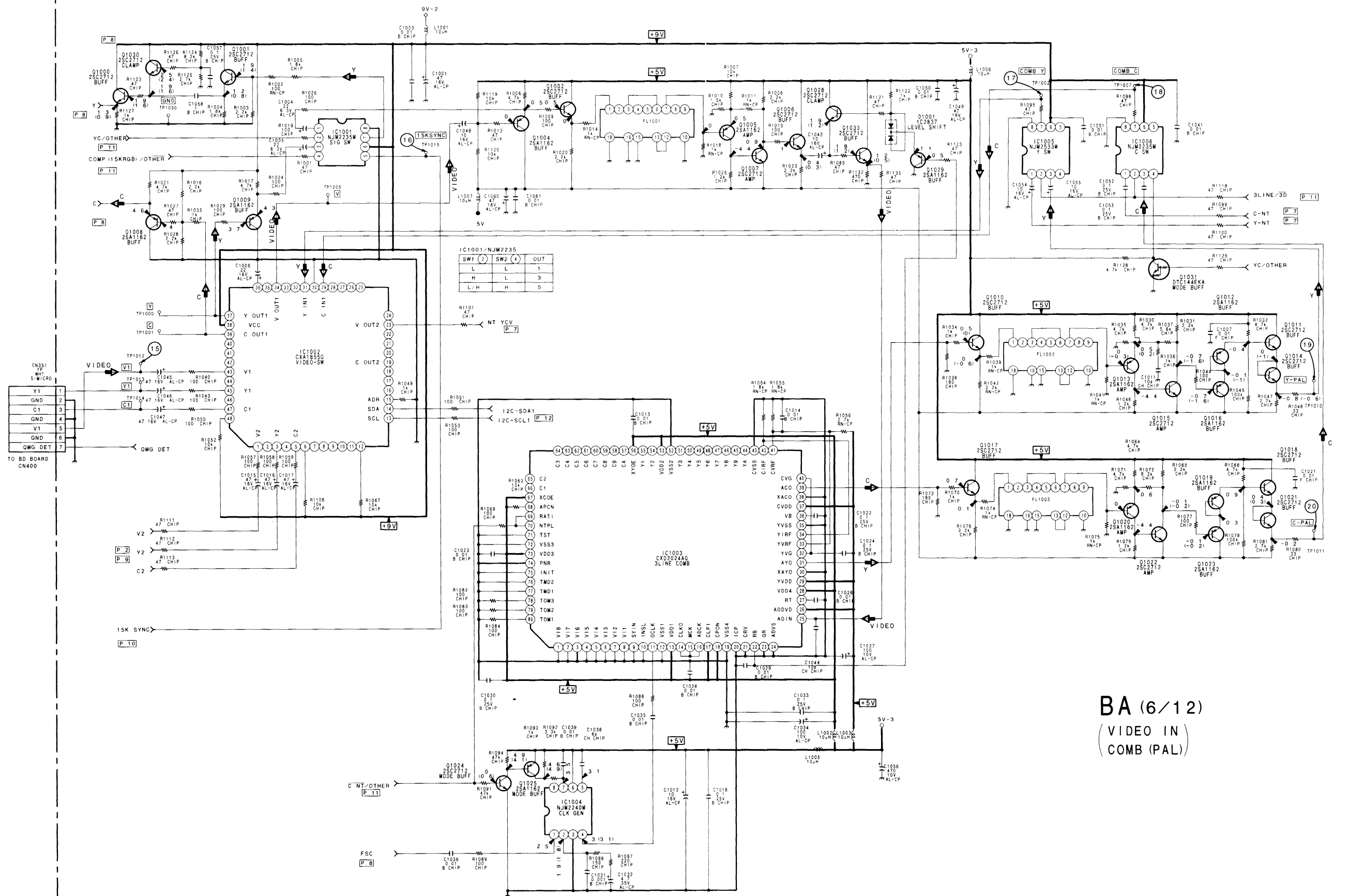
BA MOUNT (6/12) VOLTAGES

Pin No.	IC1003	IC1002	IC1001	IC1005	IC1006
1	GND	4.4	4.2 (4.3)	4.4	4.4 (4.5)
2	GND	N.C	4.1 (0)	0 (3.6)	0 (3.6)
3	GND	4.4	4.2 (4.9)	4.5 (4.3)	4.5 (4.4)
4	GND	N.C	0	N.C	0
5	GND	4.4	4.5 (5.3)	N.C	N.C
6	GND	8 (7.9)	9	9	9
7	GND	4.4	3.5 (2.7)	3.7	3.8 (3.7)
8	GND	4.4	GND	GND	GND
9	GND	4.4			
10	GND	4.4			
11	2.3	4.4			
12	GND	0 (7.9)			
13	5	4.6			
14	2.4 (2.1)	4.6			
15	2.4 (2.1)	0			
16	2.4 (2.1)	N.C			
17	5	N.C			
18	5	N.C			
19	GND	N.C			
20	GND	N.C			
21	GND	N.C			
22	0.5	N.C			
23	GND	4.3 (0)			
24	GND	N.C			
25	1.2 (0.6)	N.C			
26	5	N.C			
27	2.5	N.C			
28	5	N.C			
29	5	3.8 (3.7)			
30	GND	GND			
31	0.5 (0)	3.7			
32	3.3	N.C			
33	1.9	N.C			
34	2	4.3 (4.4)			
35	GND	N.C			
36	1	4.4			
37	5	3.6			
38	GND	9			
39	0.7	3.7			
40	3.3	4.4			

Note: No Mark is VIDEO signal and common. () Mark is Component signal.

Pin No.	IC1003	IC1002
41	1.9	4.4
42	2	4.4
43	GND	4.4
44	N.C	N.C
45	N.C	4.4
46	N.C	N.C
47	N.C	4.4
48	N.C	7.9
49	N.C	
50	N.C	
51	N.C	
52	GND	
53	5	
54	N.C	
55	N.C	
56	5	
57	N.C	
58	N.C	
59	N.C	
60	N.C	
61	N.C	
62	N.C	
63	N.C	
64	N.C	
65	N.C	
66	N.C	
67	5	
68	4.9	
69	0 (4.9)	
70	0 (4.9)	
71	GND	
72	GND	
73	5	
74	GND	
75	GND	
76	GND	
77	GND	
78	0	
79	0	
80	0	

BA (6/12) BOARD



BA (6/12)
(VIDEO IN)
(COMB (PAL))

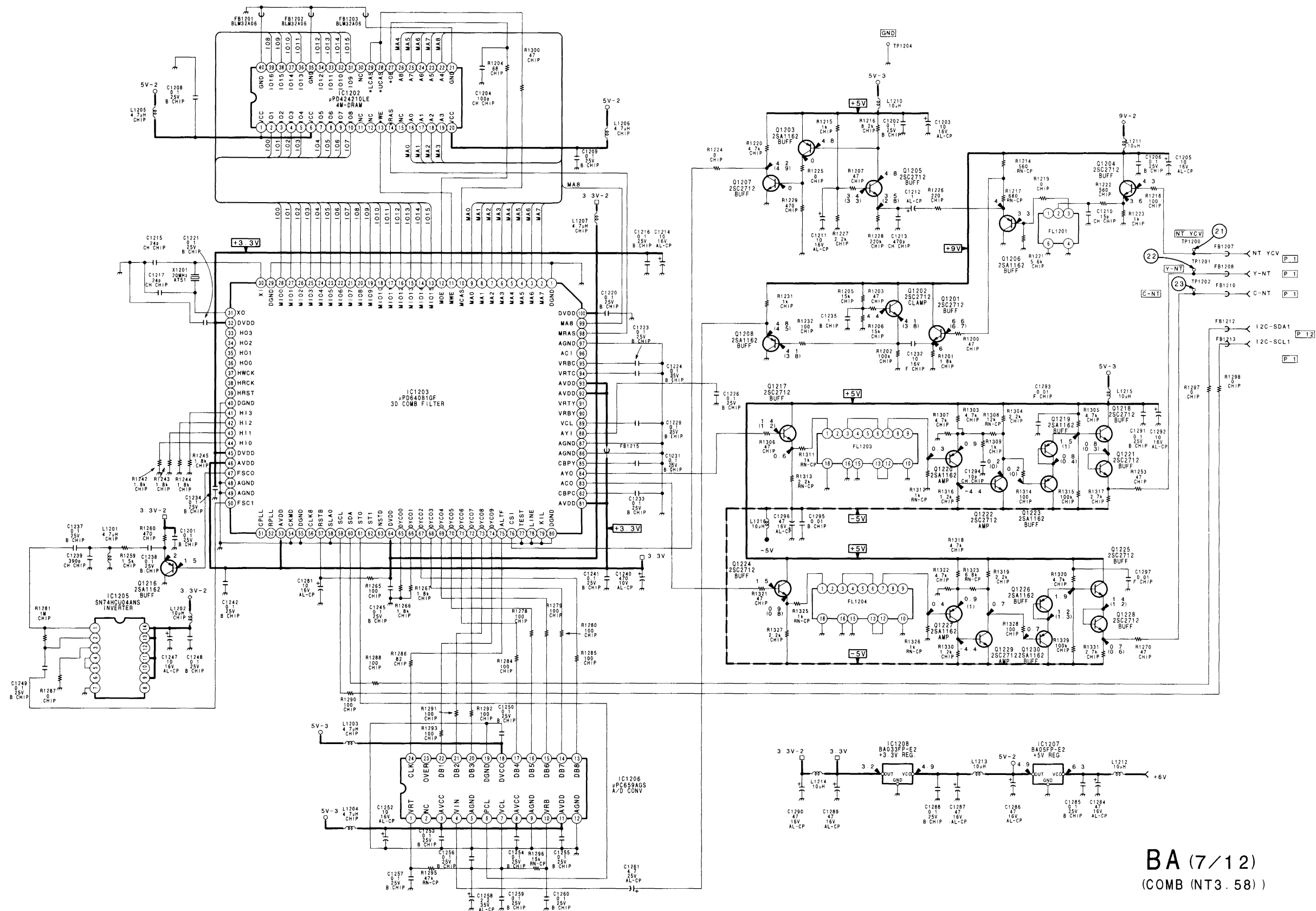
BA MOUNT (7/12) VOLTAGES

Pin No.	IC1203	IC1202	IC205	IC206
1	GND	5	1.6	3.2
2	1.4	2 (0)	1.6	0
3	1.4	2.3 (0)	0	5
4	1.4	1.3 (2.7)	3.2	2.6 (2.5)
5	1.4	2.3 (2.7)	3.2	GND
6	1.5 (1.4)	5	0	0
7	1.5 (1.4)	2.1 (2.7)	GND	2.5
8	1.4	2.2 (2.7)	N.C	0
9	1.3	0.8 (0)	3.3	2.2
10	0.9 (1)	1 (0)	N.C	5
11	2.8 (3)	N.C	3.3	GND
12	2.2	N.C	N.C	0
13	1.3 (0)	2.8 (2.9)	3.3	1.3 (1.5)
14	1.3 (0)	0.4	3.3	1.8 (0.5)
15	2.4 (3.8)	N.C		1.2 (2.7)
16	2.4 (3.8)	1.3		2.4 (4.4)
17	3.1 (3.8)	0 (1.4)		1.6 (4.4)
18	1.6 (1.9)	1.5 (1.4)		5
19	2.5 (2.6)	1.4 (1.3)		GND
20	2.1 (2.3)	5		1.6 (4.4)
21	1 (0)	GND		1.2 (0)
22	0.9 (0)	1.5		1.1 (0)
23	2.3 (0)	1.4		N.C
24	2.1 (0)	1.5 (1.4)		1.6
25	2.3 (0)	1.4		
26	1.4 (2.7)	0 (1.4)		
27	2.3 (0)	0 (2.2)		
28	1.8 (0)	0.8 (0.9)		
29	GND	0.8 (0.9)		
30	1.4	N.C		
31	1.5	1.4 (0)		
32	3.3	1.4 (0)		
33	N.C	2.5 (3.8)		
34	N.C	0 (3.8)		
35	N.C	GND		
36	N.C	3.1 (3.8)		
37	N.C	1.8 (2.2)		
38	N.C	2.5 (2.3)		
39	N.C	2.2 (1.7)		
40	GND	GND		
41	0			
42	0			
43	0			
44	0			
45	3.3			
46	3.2			
47	1.5			
48	GND			
49	GND			
50	1.5			

Note: No Mark is VIDEO signal and common. () Mark is Component signal.

Pin No.	IC1203
51	0 (0.8)
52	0 (0.8)
53	3.3
54	GND
55	GND
56	N.C
57	3.2
58	GND
59	4.6 (4.6)
60	4.6
61	0
62	N.C
63	N.C
64	3.3
65	0
66	0
67	1.4 (0.8)
68	1.8 (0.8)
69	1.4 (2.4)
70	2.5 (4.4)
71	1.7 (4.4)
72	1.7 (4.4)
73	1.4 (0)
74	1.1 (0)
75	1.6
76	4.2 (4.9)
77	GND
78	GND
79	GND
80	GND
81	3.3
82	9.9
83	1.5
84	1.4 (1.2)
85	0.9
86	GND
87	GND
88	0
89	0
90	0
91	0
92	3.3
93	3.3
94	0
95	
96	N.C
97	GND
98	0.4
99	1.5
100	3.3

BA (7/12) BOARD

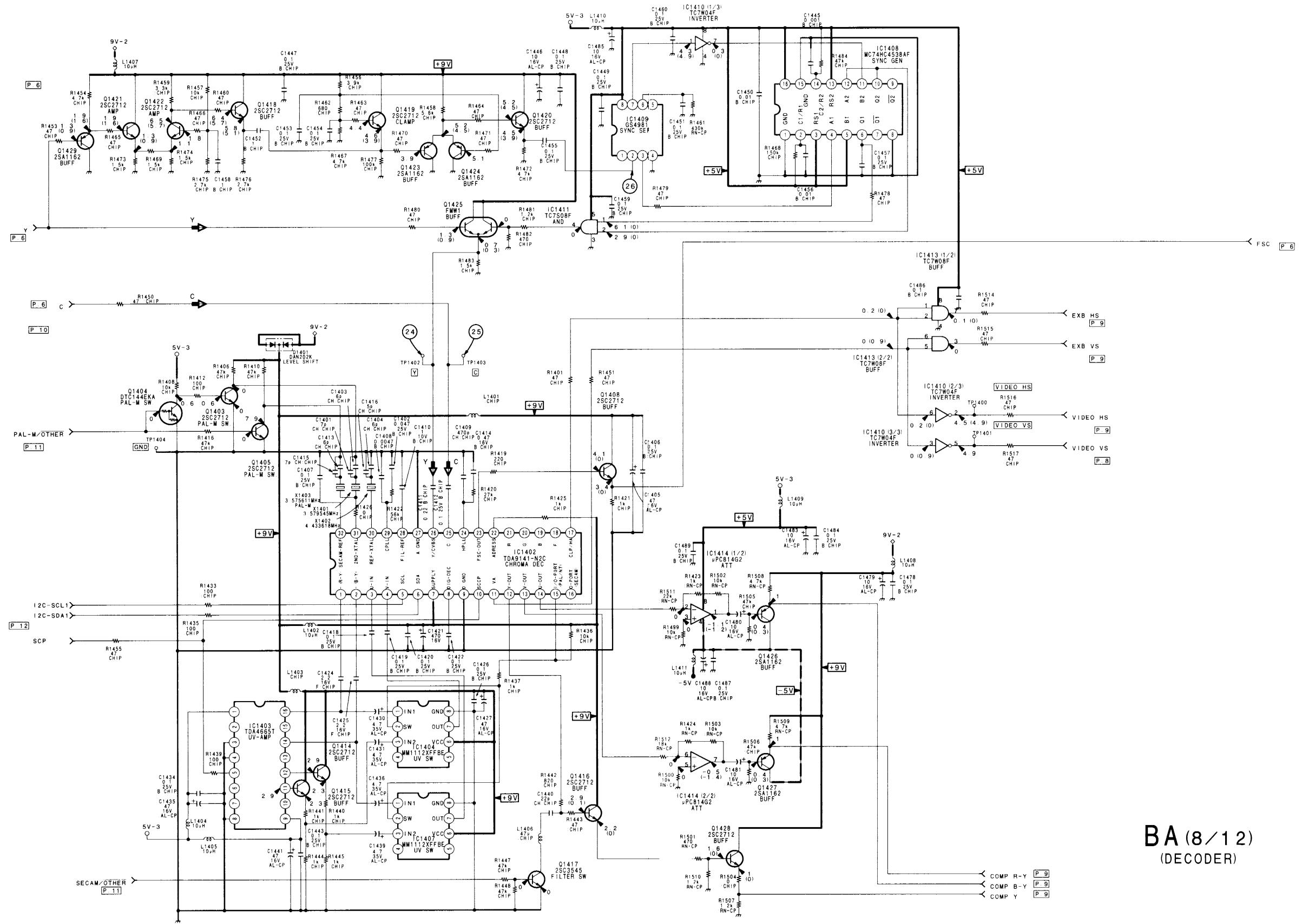


BA MOUNT (8/12) VOLTAGES

PIN NO.	IC1402	IC1403	IC1404	IC1407	IC1408	IC1409
1	2.1	5	3.5	3.6 (3.5)	GND	N.C
2	2	N.C	0	0	4.6 (4.8)	0 (1.5)
3	2.4 (0)	GND	3.6 (3.5)	3.6 (3.5)	5	4.8 (0)
4	2.5 (0)	GND	N.C	N.C	4.8 (0)	GND
5	4.5	0.6	N.C	N.C	5	N.C
6	4.6 (4.5)	N.C	9	9	0.1 (0)	1.2
7	4.9	N.C	3.8	3.8	N.C	4.3 (4.9)
8	8	GND	GND	GND	GND	5
9	GND	5			N.C	
10	0.5 (0.6)	N.C			2.9 (0)	
11	0	2.9			0.3 (0)	
12	2.9 (0)	2.9			2.9 (0)	
13	2.5 (2.4)	N.C			5	
14	2.4 (2.5)	1.5			4.9 (2.8)	
15	0	N.C			GND	
16	N.C	1.8			5	
17	0.2 (0)					
18	N.C					
19	N.C					
20	N.C					
21	N.C					
22	7.3					
23	4.1 (0)					
24	3.9 (3.5)					
25	0					
26	3.6 (3.2)					
27	GND					
28	3.4					
29	4.5 (4.2)					
30	1.4 (1.9)					
31	2.2 (1.7)					
32	3.9 (3.7)					

Note: No Mark is VIDEO signal and common. () Mark is Component signal.

BA (8/12) BOARD

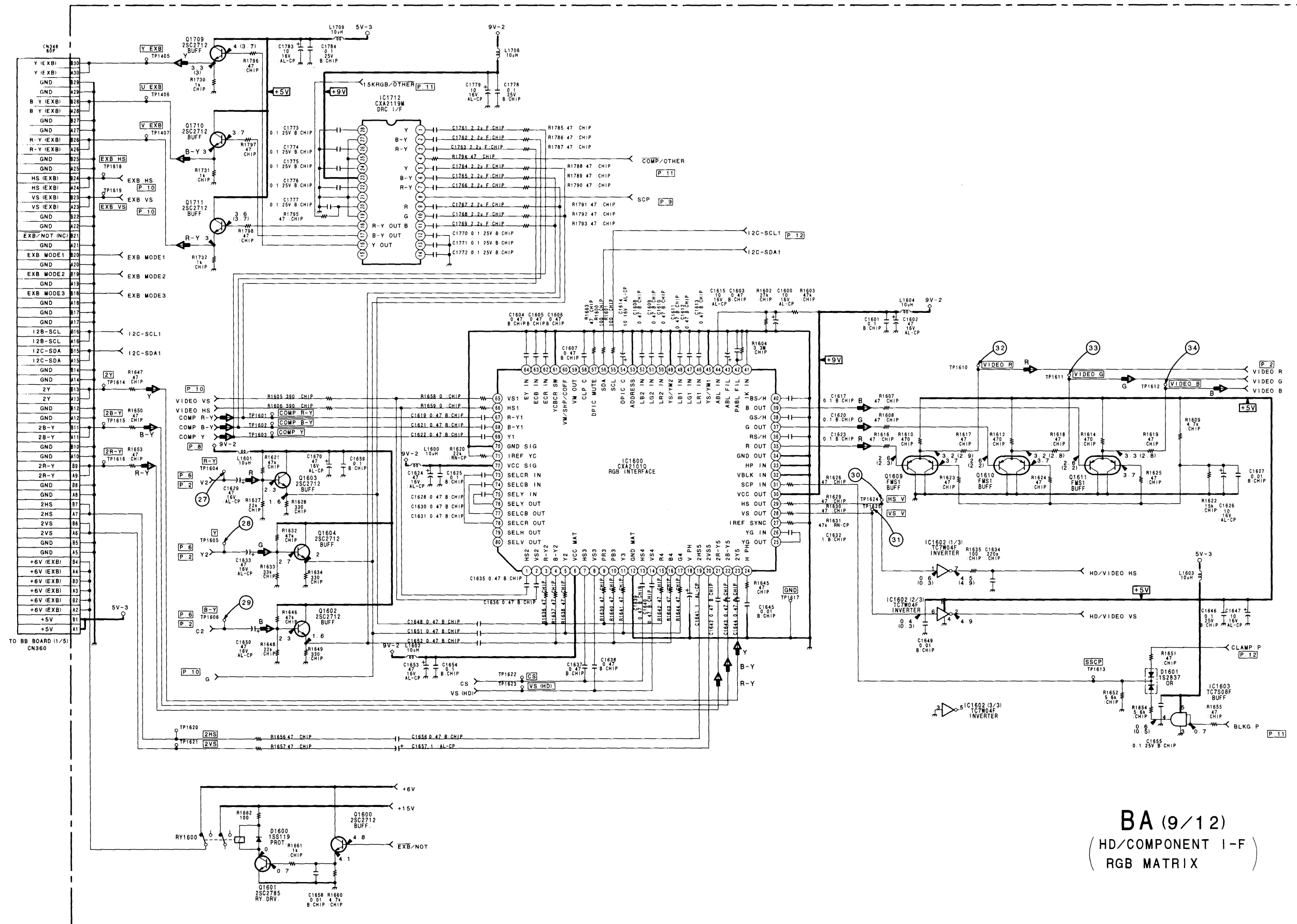


BA (8/12)
(DECODER)

BA MOUNT (9/12) VOLTAGES

Pin No. IC1600			Pin No. IC1712		
1	6.9 (2.4)	4 (3.9)	41	GND	
2	7.1 (2.4)	3.9	42	0	
3	2.8 (2.9)	3.9	43	8.7 (0)	
4	2.8 (2.9)	4.9	44	3.2	
5	2.9	3.9 (4.1)	45	GND	
6	9	3.9 (4.1)	46	4.8	
7	2.4 (7.3)	3.9 (0)	47	4.8	
8	2.4 (7)	0.5 (0)	48	4.8	
9	2.9	3.4 (0)	49	GND	
10	2.9	3.4	50	4.1	
11	2.9	3.4	51	4.1	
12	GND	3.5	52	4.1	
13	2.4 (7.3)	3.5	53	GND	
14	2.4 (7)	3.5	54	3.7 (4.1)	
15	2.8 (2.9)	N.C	55	4.5 (4.6)	
16	2.8 (2.9)	4 (3.7)	56	4.6	
17	2.8 (2.9)	3.7	57	0 (0.2)	
18	3 (2.9)	3.6 (3.7)	58	3.3 (3.6)	
19	2.4	GND	59	N.C	
20	2.4 (2.5)	0	60	N.C	
21	2.8	GND	61	GND	
22	2.9 (2.8)	4.3 (0)	62	4.7	
23	2.9 (2.8)	0	63	4.7 (4.2)	
24	3 (2.9)	2.1 (0)	64	4.7 (4.8)	
25	5.1 (5)	GND	65	0 (4.9)	
26	2.5 (2.9)	2.1	66	4.5 (4.9)	
27	4.5	GND	67	4.8	
28	0.4 (0.3)	2.1	68	4.8	
29	0.6 (0.3)		69	4.9 (4.8)	
30	9		70	GND	
31	0 (0.2)		71	2.5	
32	GND		72	9	
33	GND		73	2.4 (2.3)	
34	GND		74	2.3	
35	0 (2.1)		75	2.3	
36	2.8 (0)		76	4.4	
37	0 (2.1)		77	4.4	
38	0		78	4.4	
39	0.8 (2.1)		79	N.C	
40	0				

Note: No Mark is VIDEO signal and common. () Mark is Component signal.

NA (9/12) BOARD

BA MOUNT (10/12) VOLTAGES

Pin No.	IC1801	IC1802	IC1804	IC1811	IC181
1	2.7 (7)	0 (3.5)	0	0	0
2	2.9 (0)	0	GND	4.5 (4.9)	0
3	1.8 (3.5)	0 (3.5)	0 (4.5)	5	0
4	2.7	0 (4.5)	0	4.5 (4.9)	GND
5	2.8	0 (4.9)	GND	GND	0
6	0.1 (0)	0 (4.1)	0 (4.9)	GND	0
7	1.1 (1.5)	0 (4.9)	0	N.C	0
8	5	GND	GND	GND	5
9	1.2	0 (4.9)	0	4.9	
10	1.2	0	GND	0 (4.9)	
11	GND	GND	0 (0.4)	4.9	
12	3.1	0 (4.5)	0	4.5	
13	0.3	0 (3.5)	GND	0 (4.5)	
14	4.9	GND	0	4.5 (4.9)	
15	0.1 (0)	GND	0	0	
16	N.C	5	5	5	
17	N.C				
18	0.2				
19	1				
20	1				
21	0.3				
22	5				

Note: No Mark is VIDEO signal and common. () Mark is Component signal.

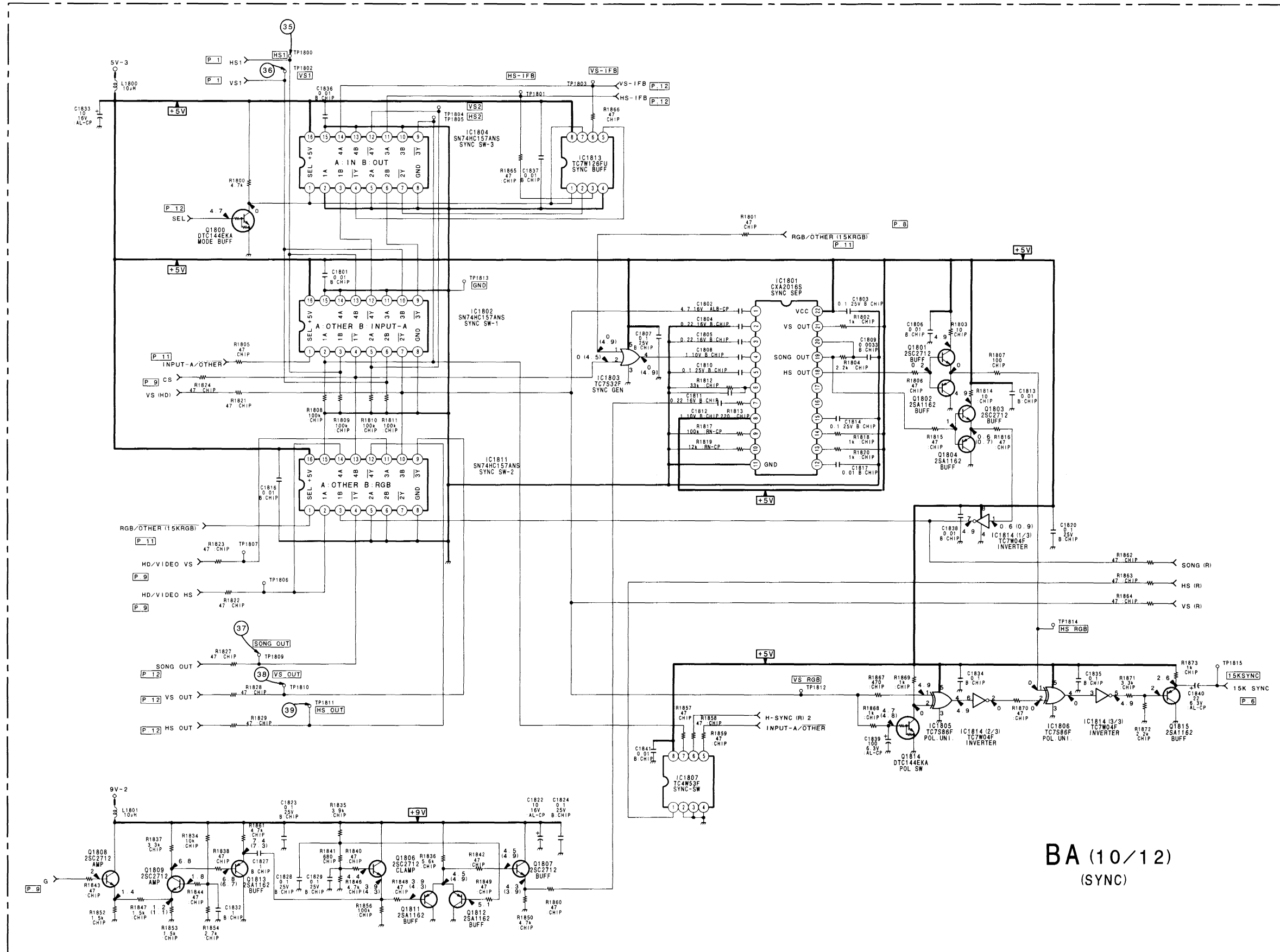
1

2

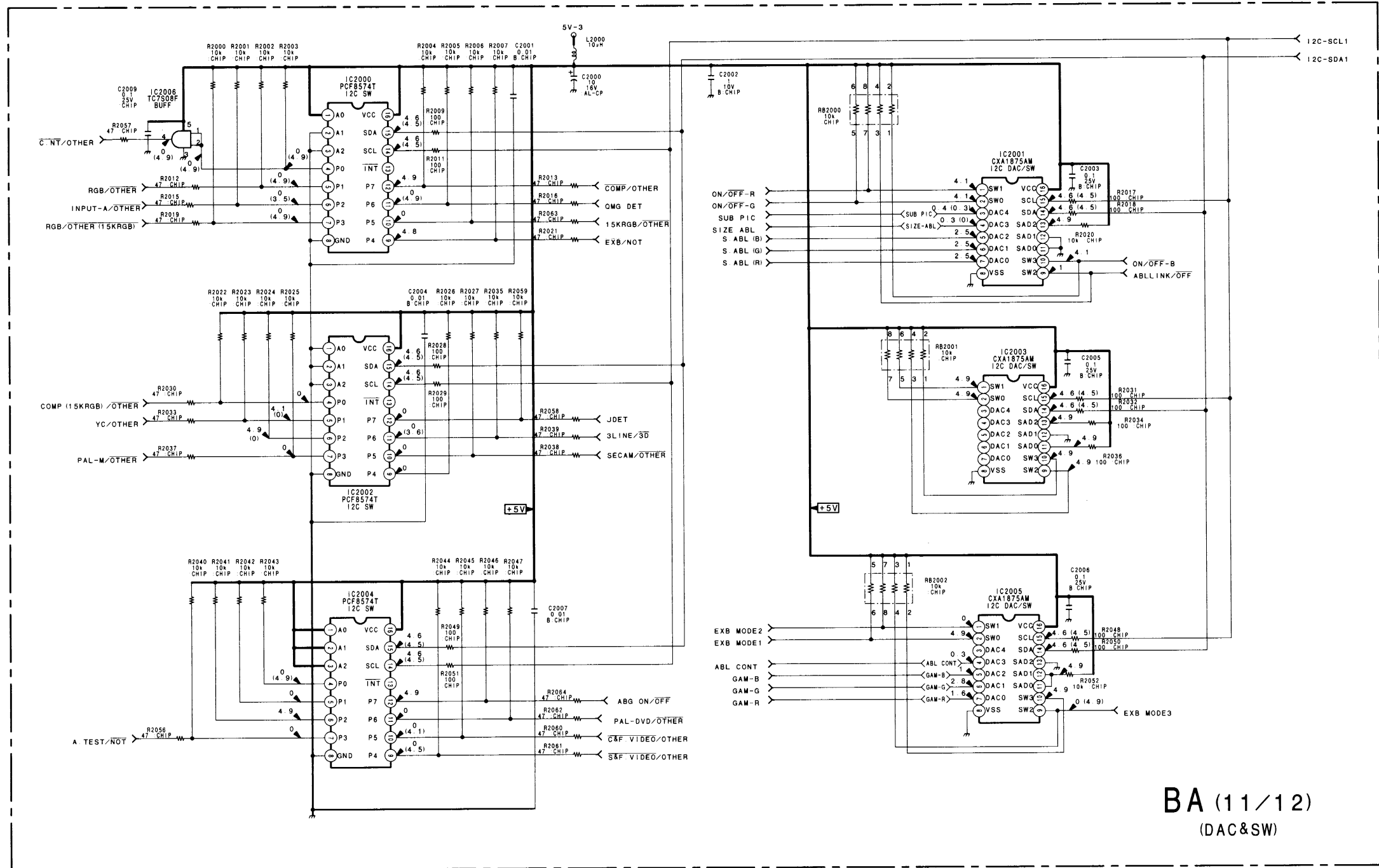
3

4

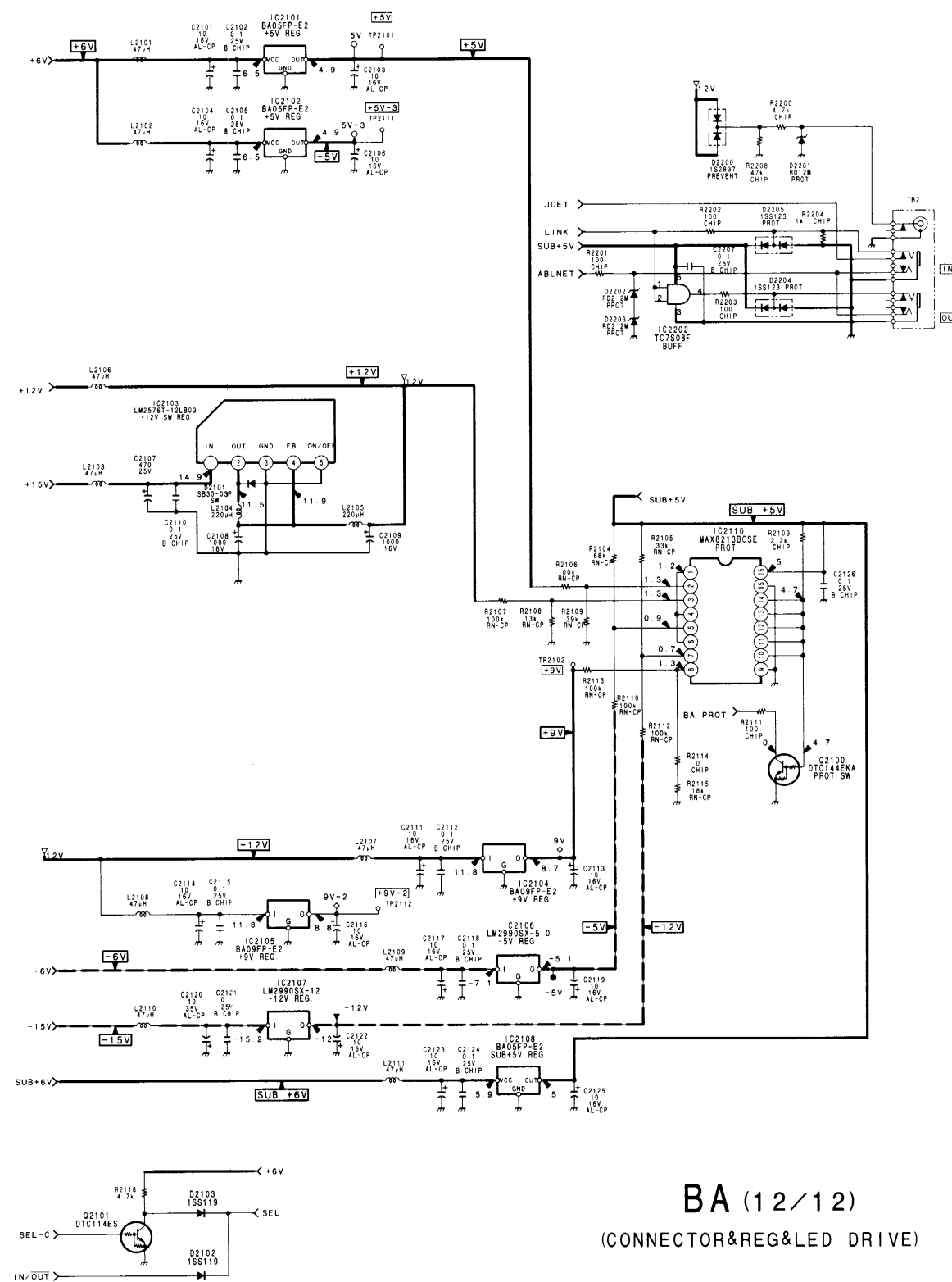
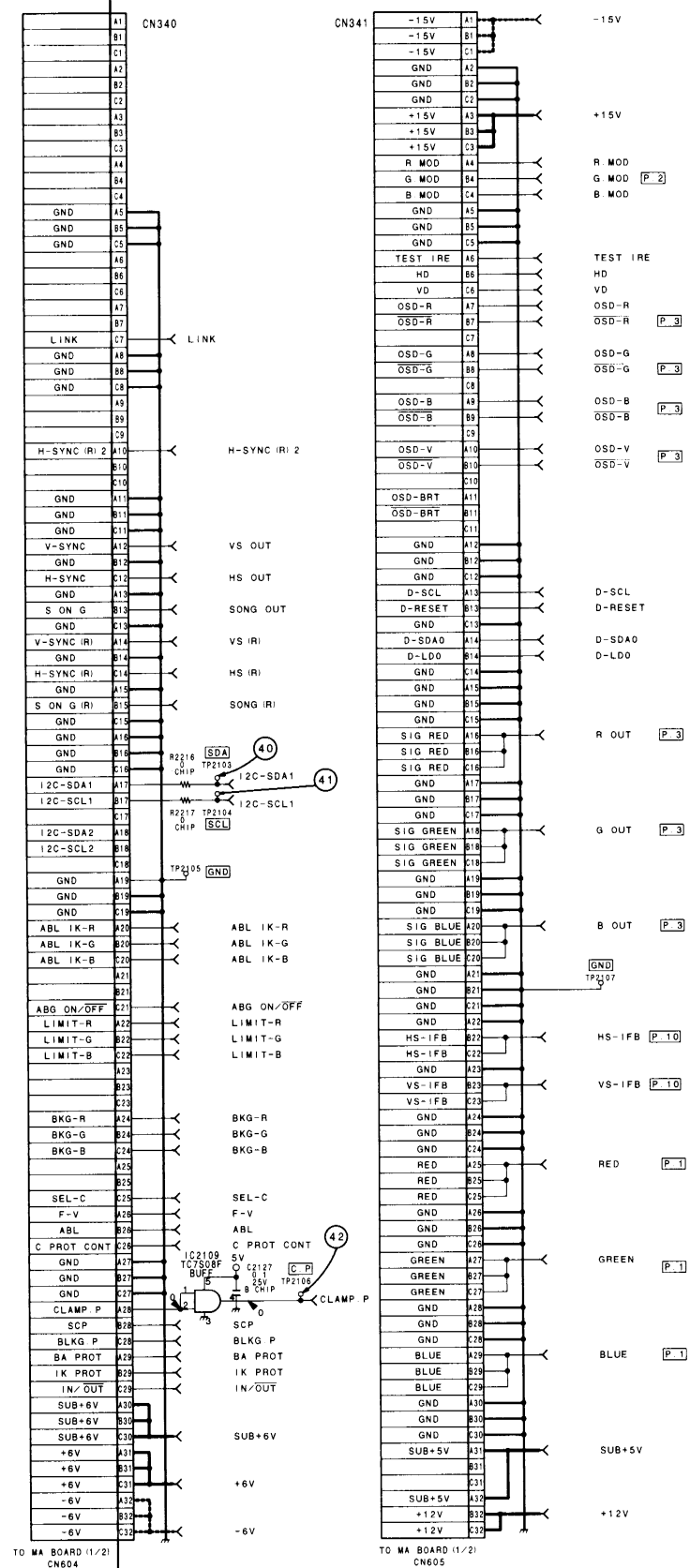
5



BA (11/12) BOARD



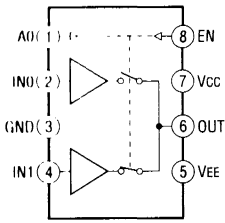
BA (12/12) BOARD



BA (12/12)
(CONNECTOR®&LED DRIVE)

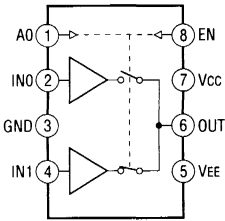
BA BOARD (1/12) IC1, 2, 3
MAX4121CSA

1



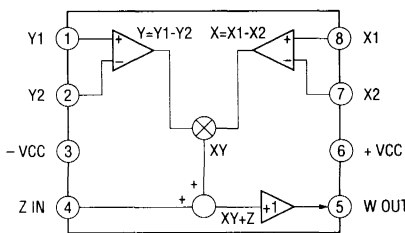
BA BOARD (2/12) IC202, 203, 207, 208, 213, 214
MAX4121CSA

2



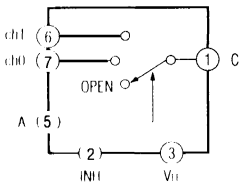
BA BOARD (2/12) IC204, 210, 217
AD835AF

3



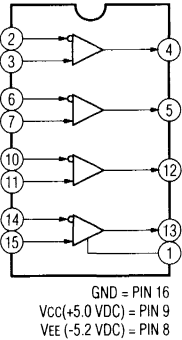
BA BOARD (2/12) IC218
TC4W53FU

4

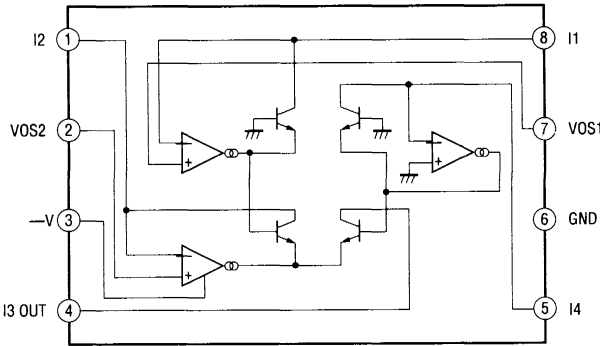


5

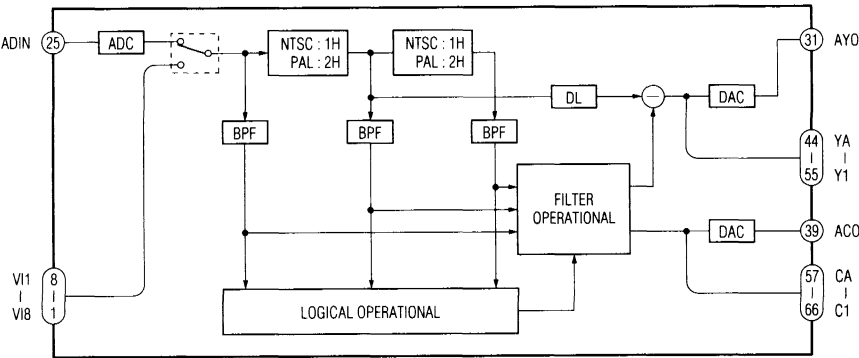
BA BOARD (3/12) IC403
MC10HC125MEL



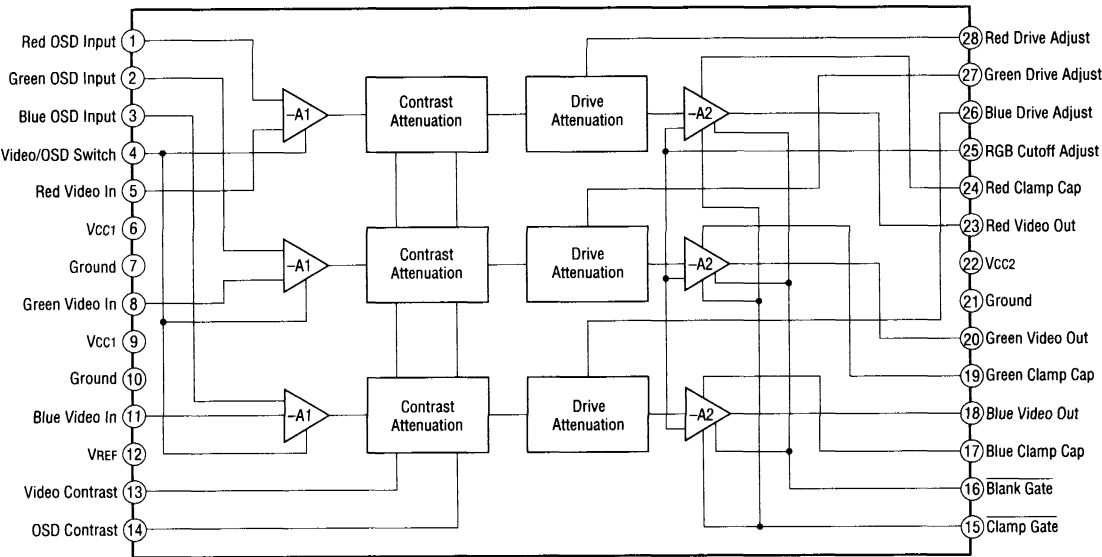
BA BOARD (4/12) IC600, 601, 602
NJM4200M-T1



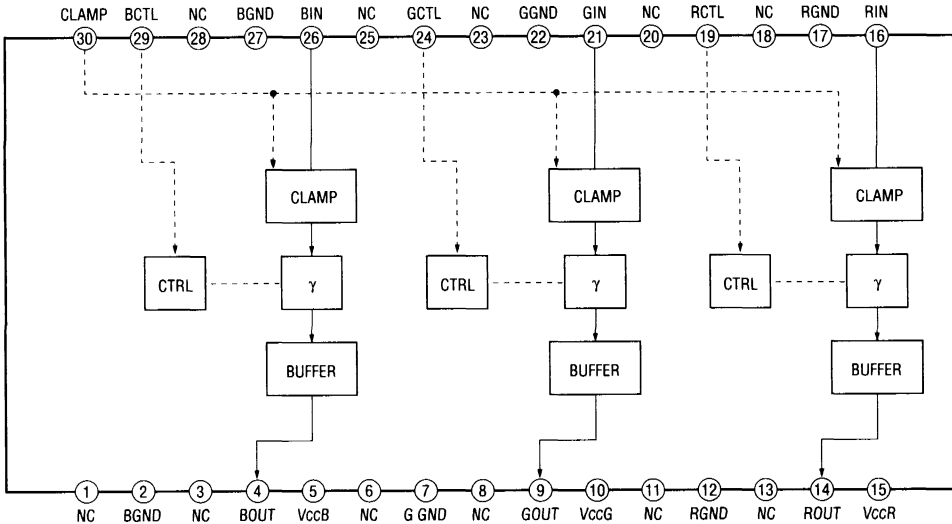
BA BOARD (6/12) IC1003
CXD2024AQ



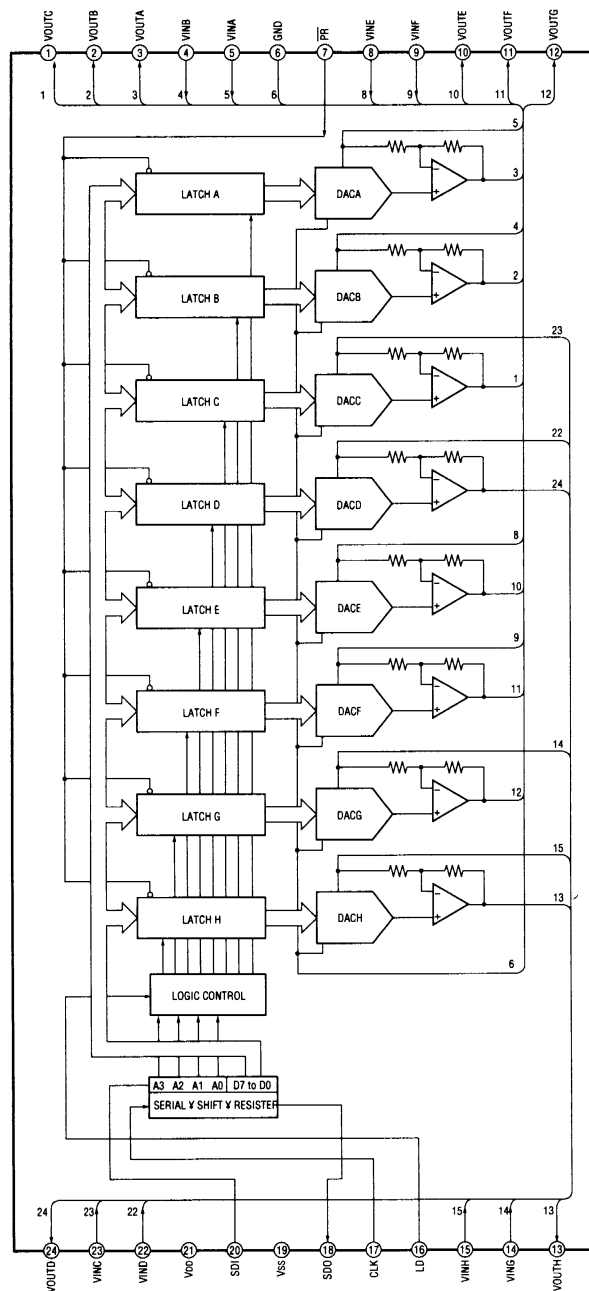
BA BOARD (3/12) IC404
LM1283N



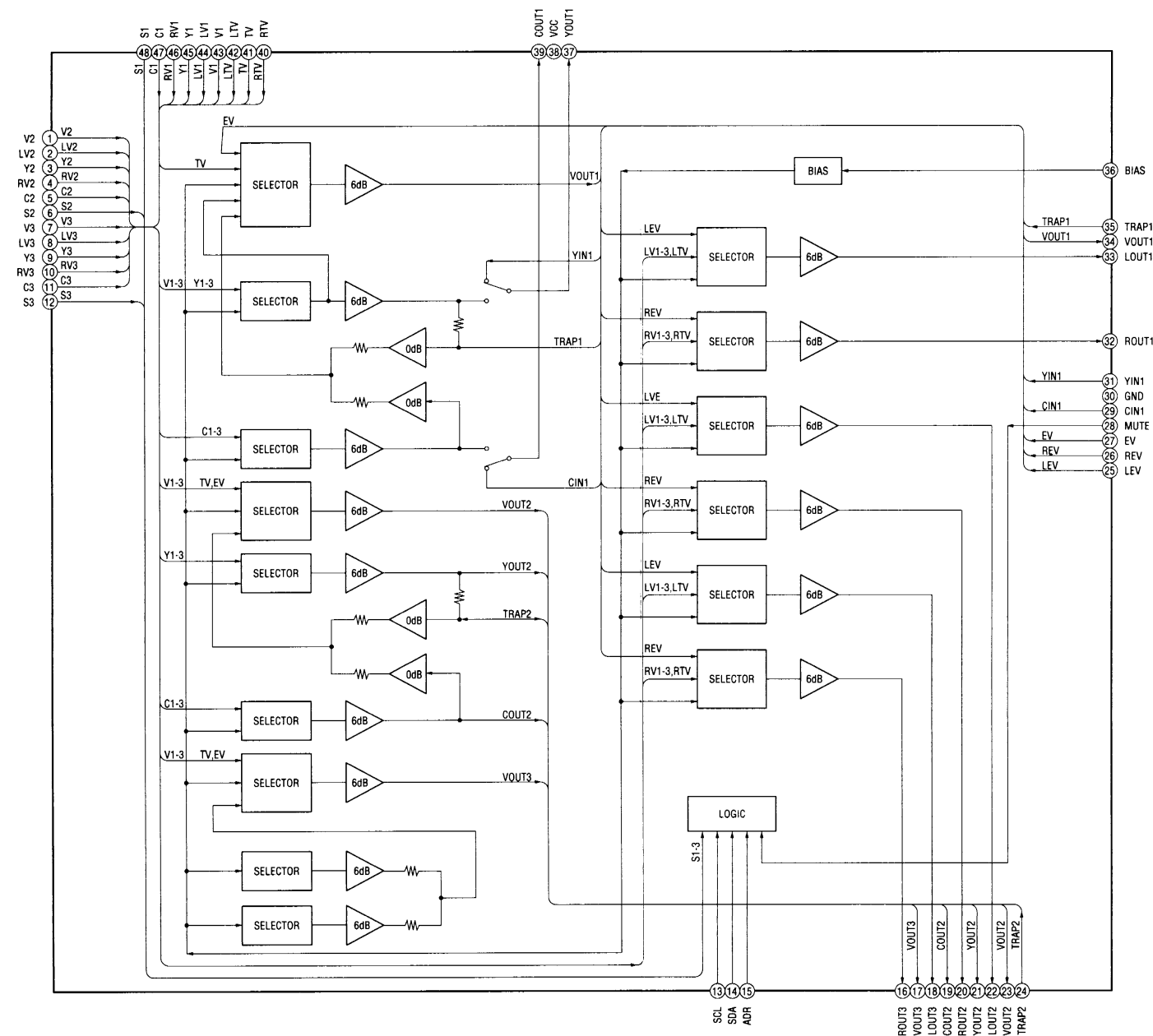
BA BOARD (3/12) IC402
CXA3069S



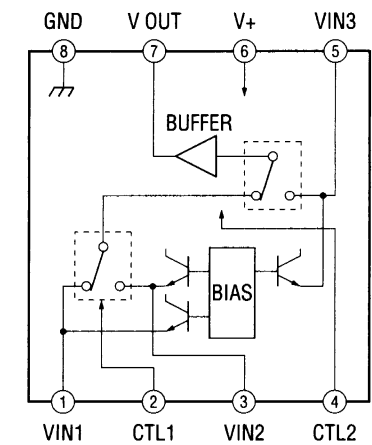
BA BOARD (4/12) IC609, 611
MP7670AS



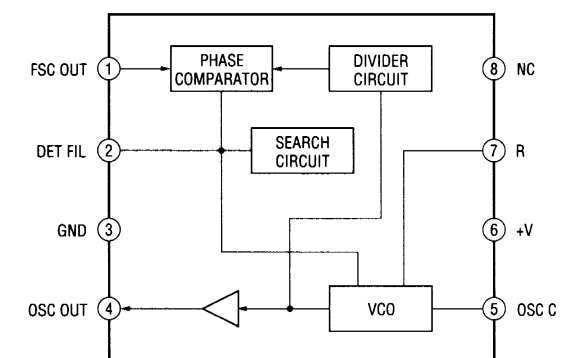
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CXA1855Q



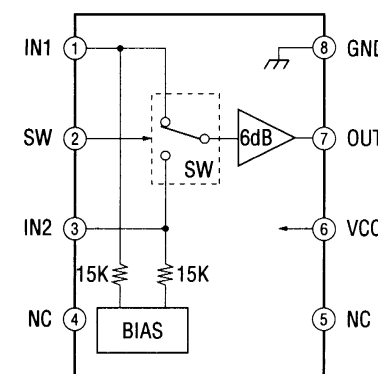
BA BOARD (6/12) IC1001, 1006
NJM2235M



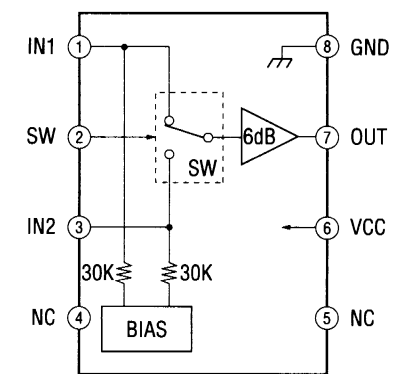
BA BOARD (6/12) IC1004
NJM2240M



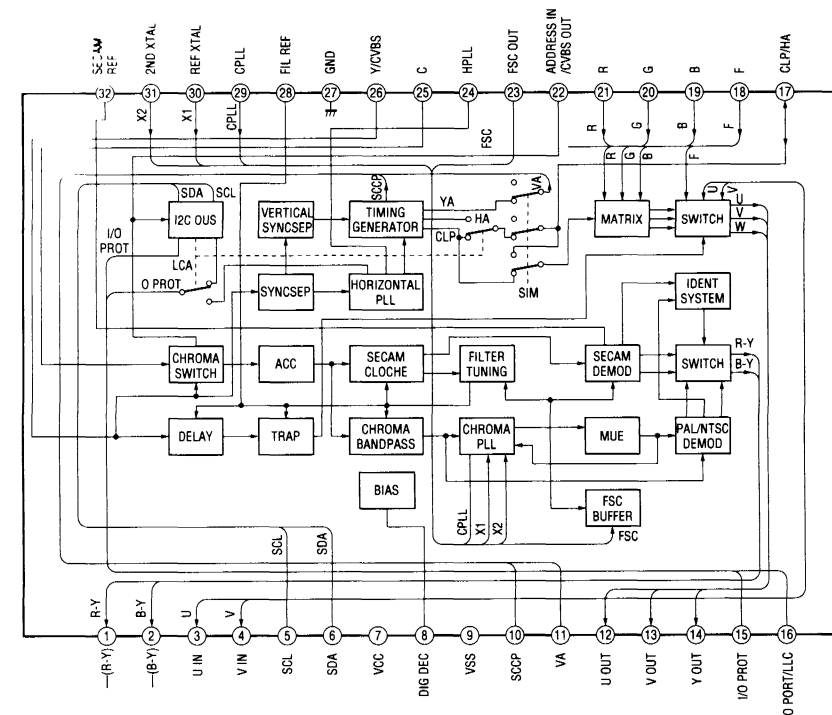
BA BOARD (8/12) IC1404, 1407
MM1112XFF



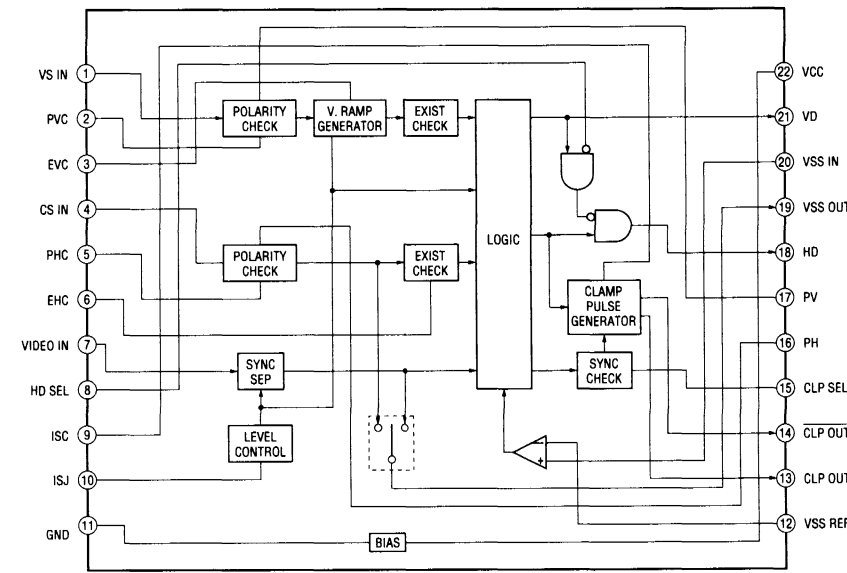
BA BOARD (6/10) IC1005
NJM2533M



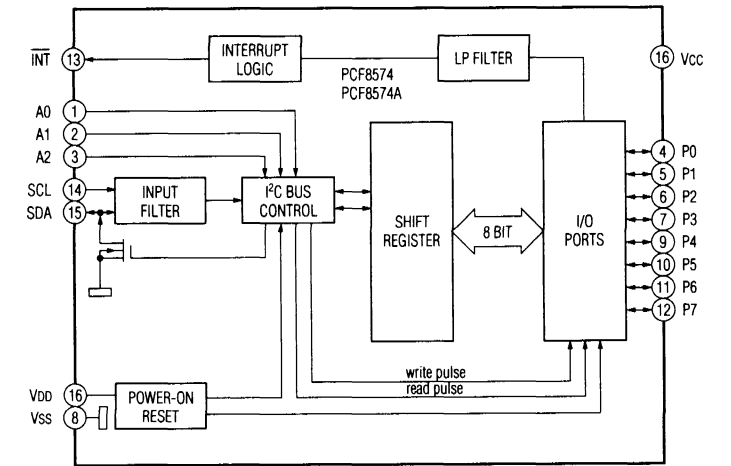
**BA BOARD (8/12) IC1402
TDA9141-N2C**



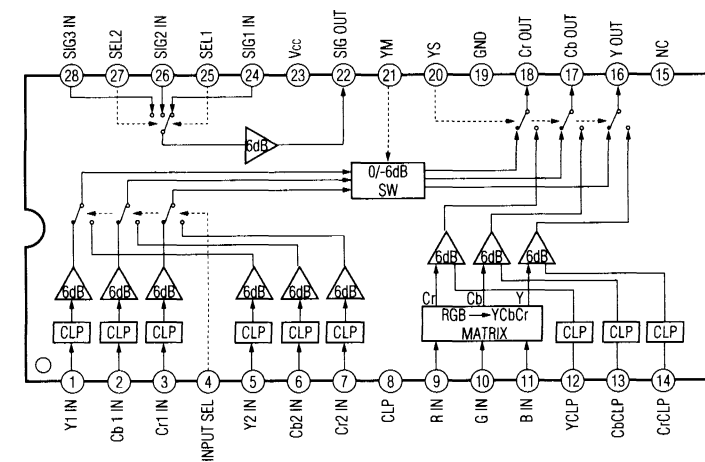
**BA BOARD (10/12) IC1801
CXA2016S**



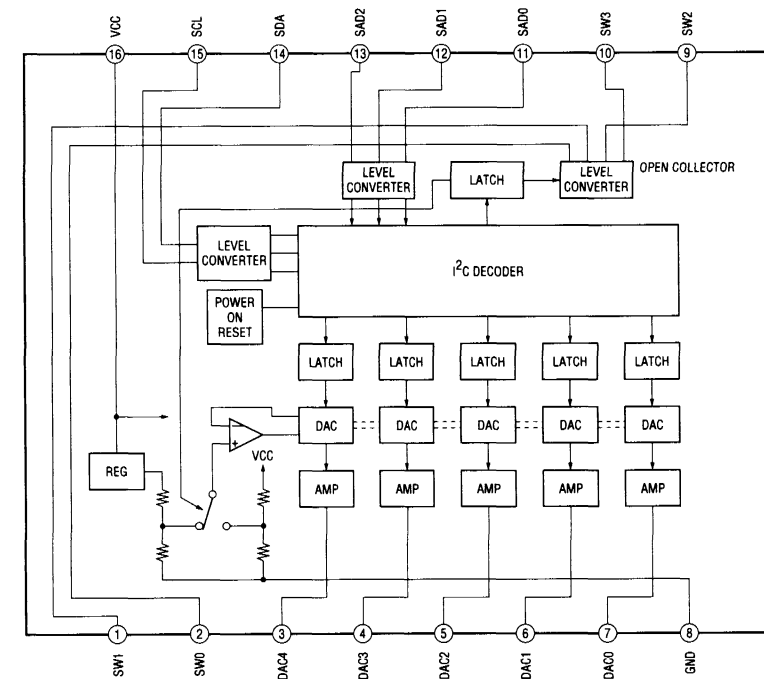
**BA BOARD (11/12) IC2000, 2002, 2004
PCF8574T**



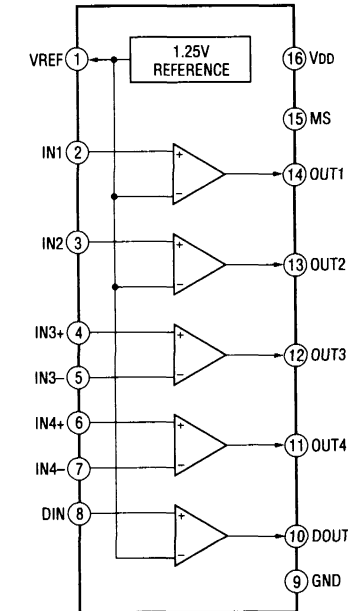
**BA BOARD (9/12) IC1712
CXA2119M**



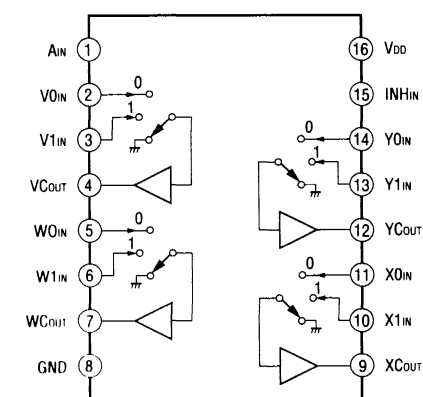
**BA BOARD (11/12) IC2001, 2003, 2005
CXA1875AM**

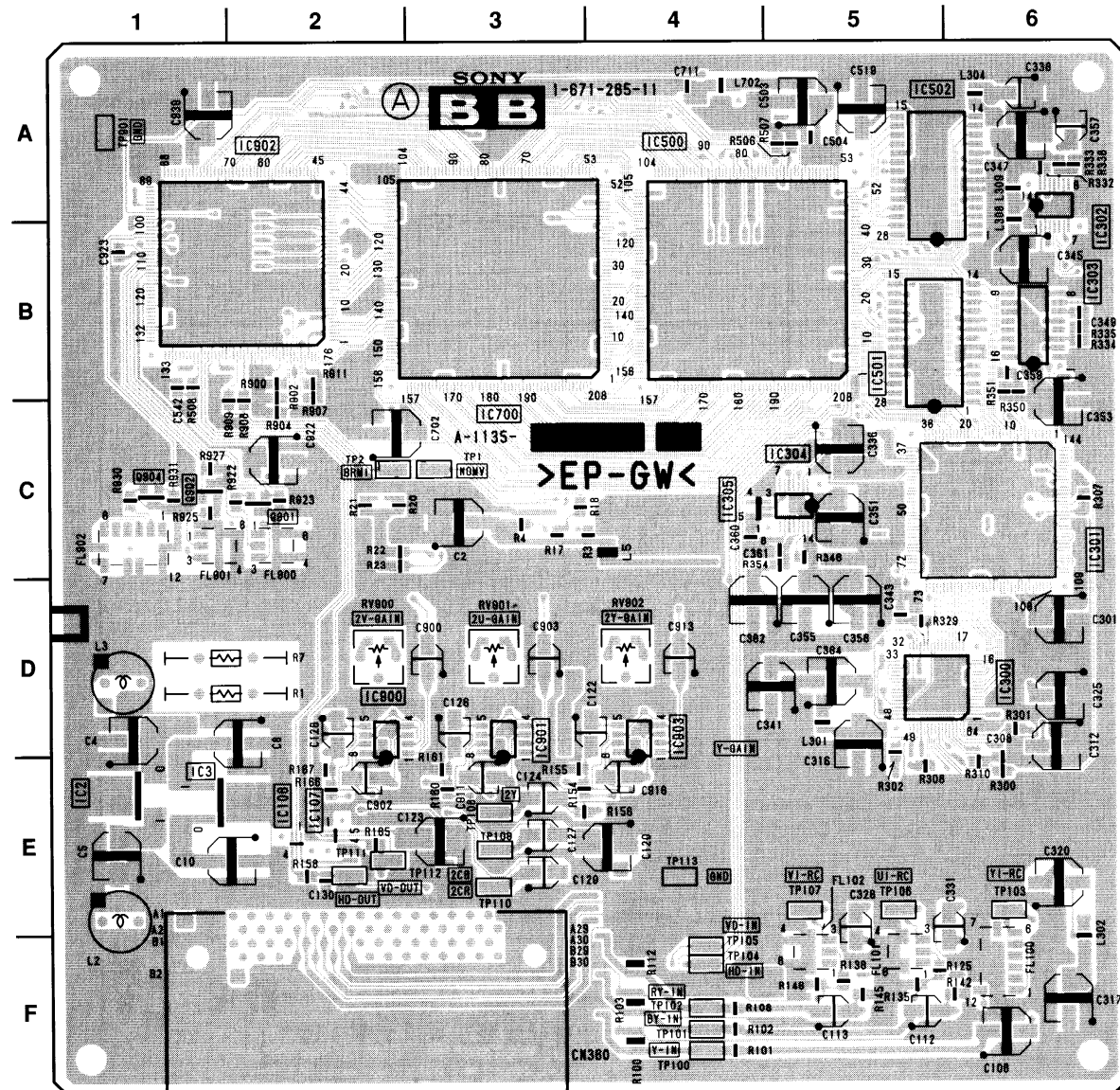


**BA BOARD (12/12) IC2110
MAX8213BCSE**



**BA BOARD (10/12) IC1802, 1804, 1811
SN74HC157ANS**

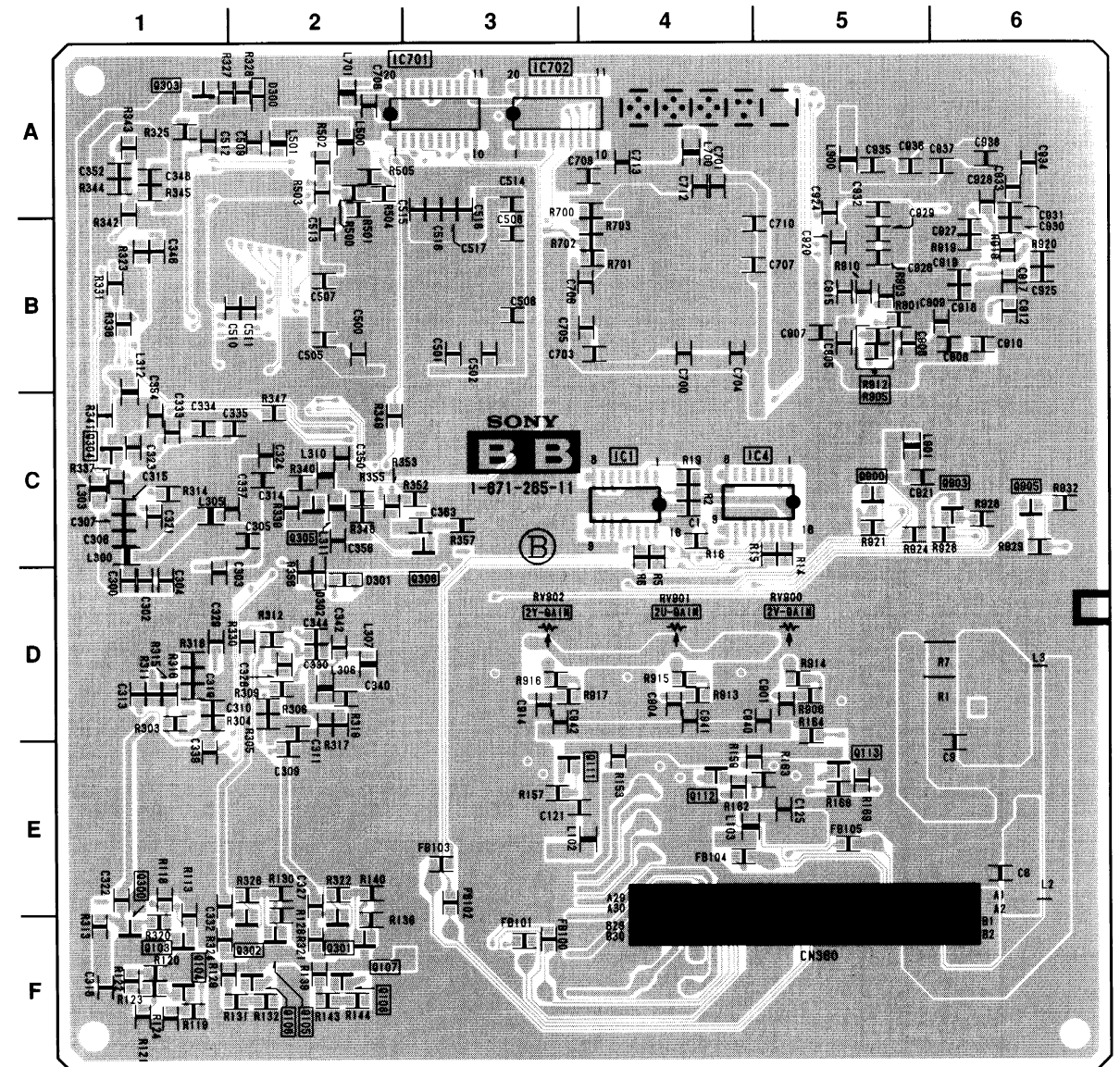


BB BOARD

BB BOARD (A SIDE)

IC2	E-1	TP1	C-3
IC3	E-1	TP2	C-2
IC106	E-2	TP100	F-4
IC107	E-2	TP101	F-4
IC300	D-6	TP102	F-4
IC301	C-6	TP103	F-6
IC302	B-6	TP104	F-4
IC303	B-6	TP105	F-4
IC304	C-5	TP106	F-5
IC305	C-4	TP107	E-5
IC500	A-4	TP108	E-3
IC501	B-5	TP109	E-3
IC502	A-5	TP110	E-3
IC700	C-3	TP111	E-2
IC900	D-2	TP112	E-3
IC901	D-3	TP113	E-4
IC902	A-2	TP901	A-1
IC903	D-4		
Q901	C-1		
Q902	C-1		
Q904	C-2		
RV900	D-2		
RV901	D-3		
RV902	D-4		

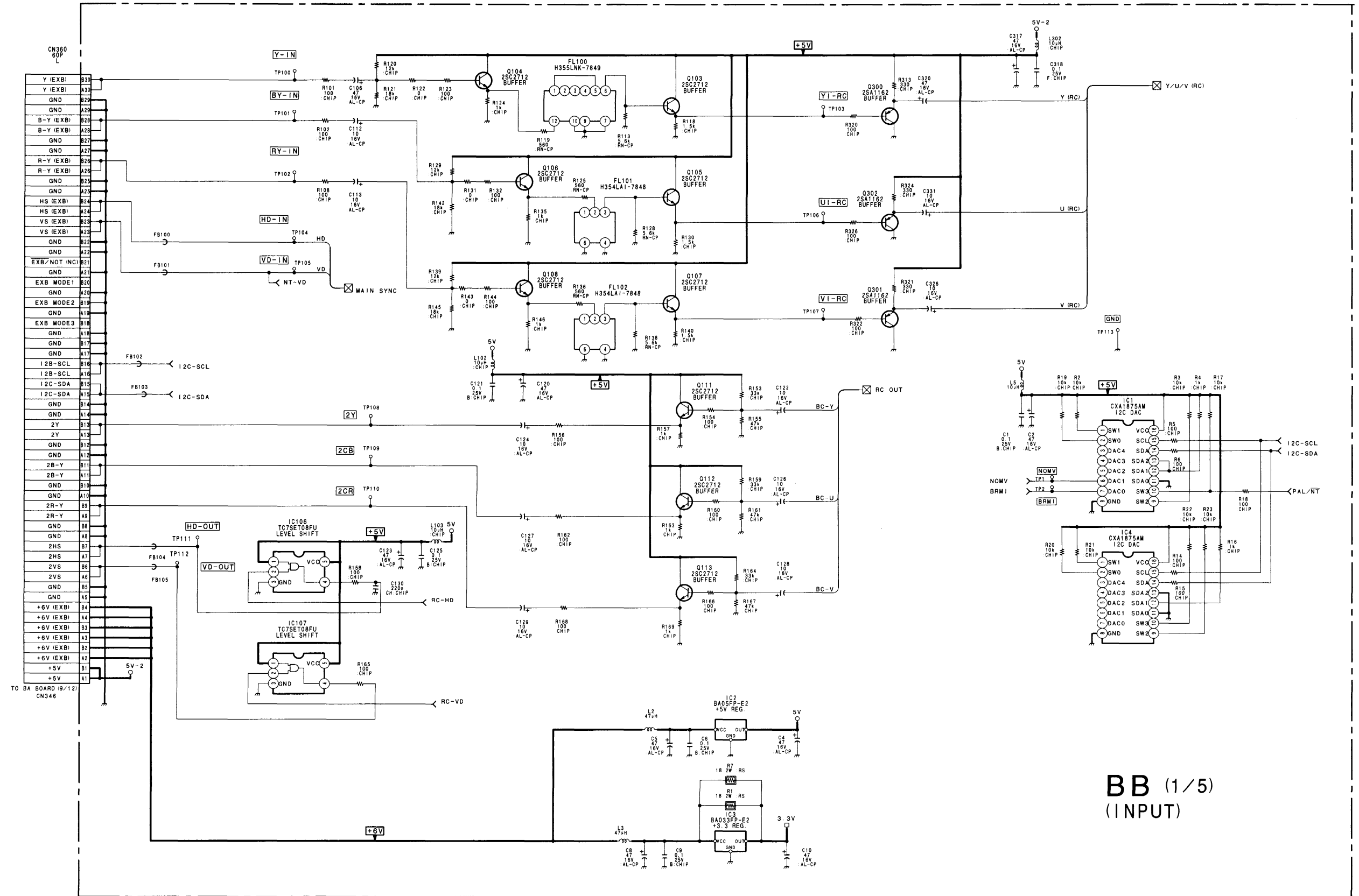
BB -A SIDE-
SUFFIX: -11

**BB BOARD (B SIDE)**

D300	A-2	RV900	D-5
D301	D-2	RV901	D-4
D302	D-2	RV902	D-3
IC1	C-4		
IC4	C-5		
IC701	A-3		
IC702	A-3		
Q103	F-1		
Q104	F-1		
Q105	F-2		
Q106	F-2		
Q107	F-2		
Q108	F-2		
Q111	E-4		
Q112	E-4		
Q113	E-5		
Q300	E-1		
Q301	F-2		
Q302	F-2		
Q303	A-1		
Q304	C-1		
Q305	C-2		
Q306	D-3		
Q900	C-5		
Q903	C-6		
Q905	C-6		

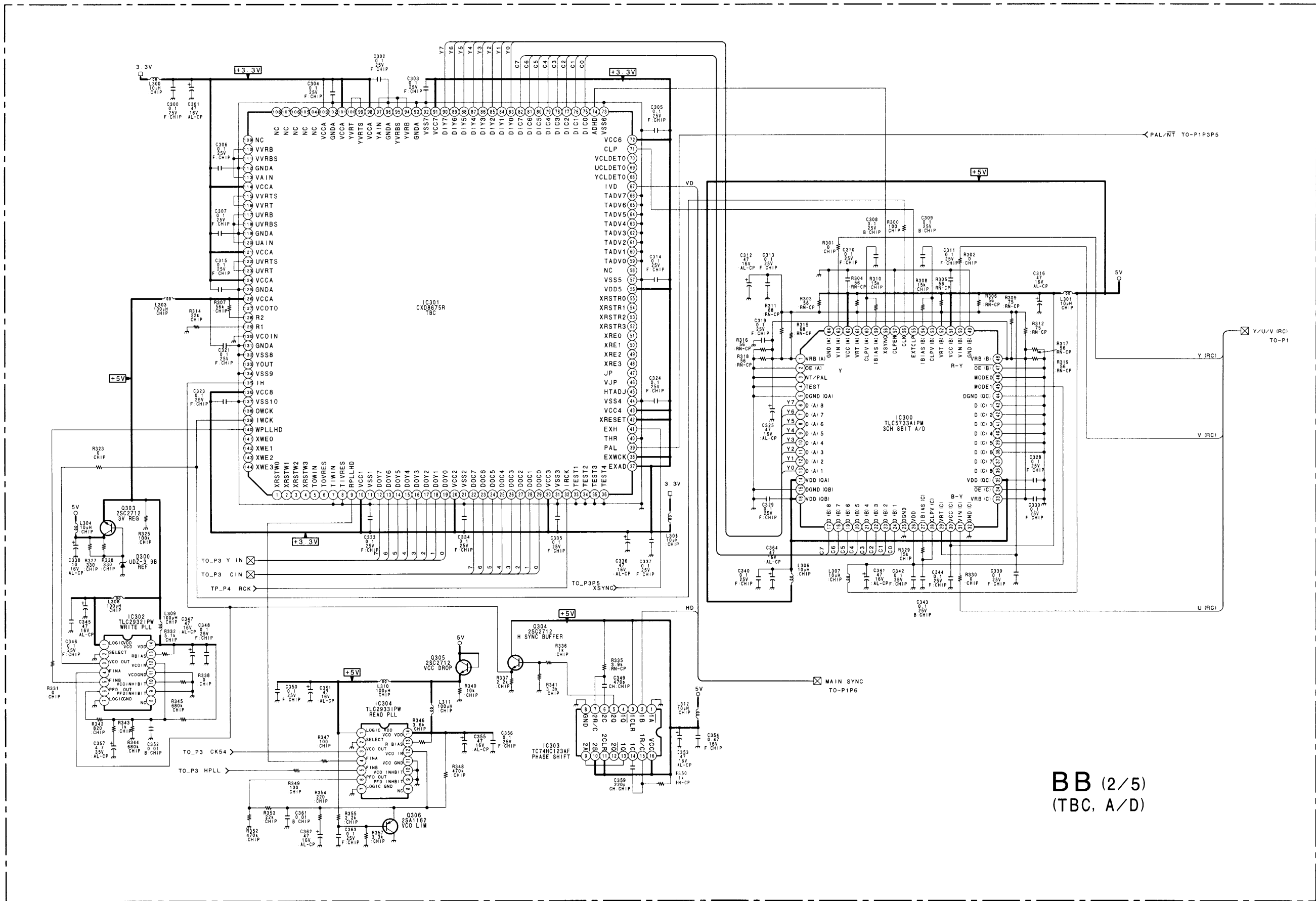
BB -B SIDE-
SUFFIX: -11

BB (1/5) BOARD

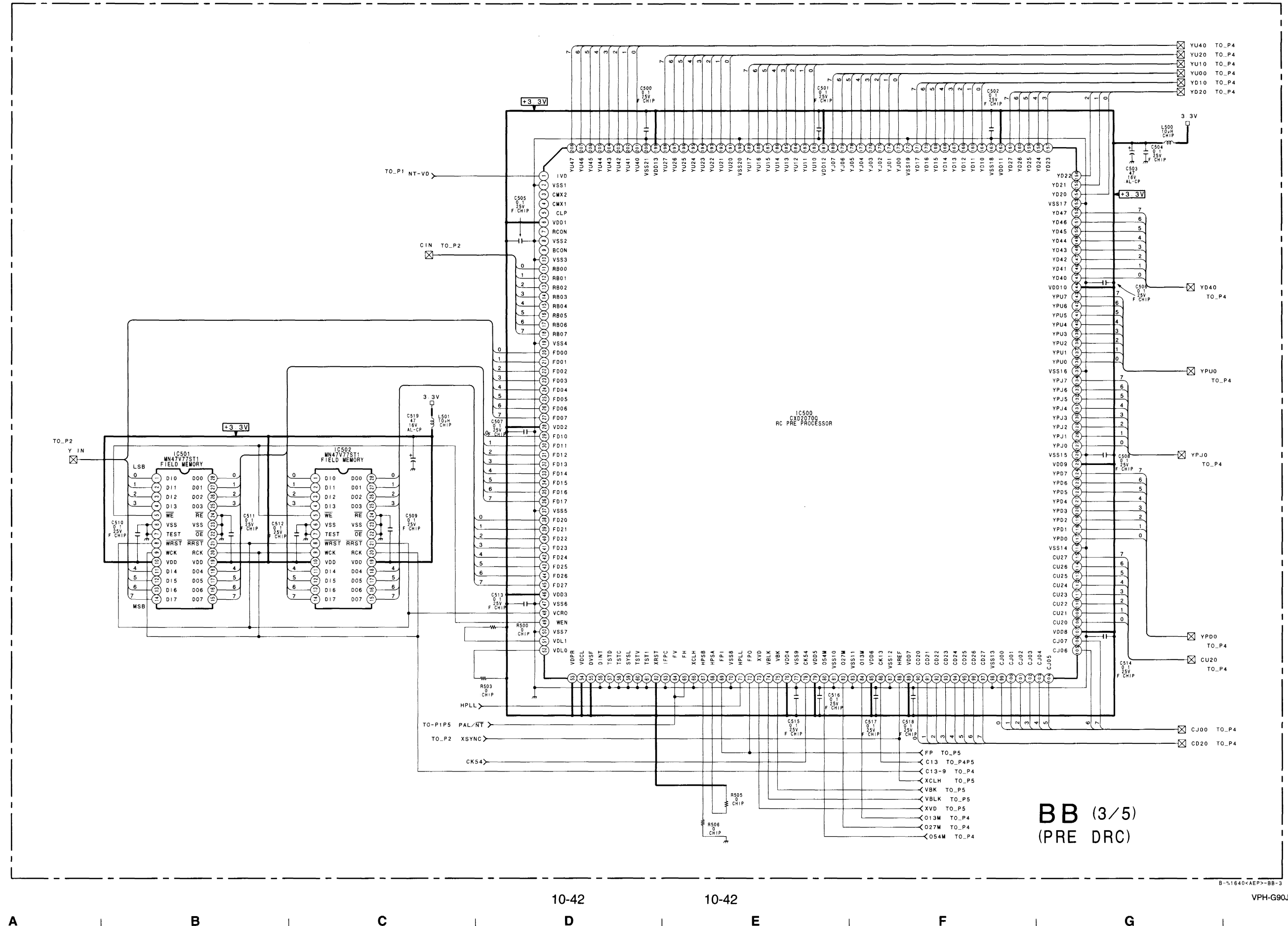


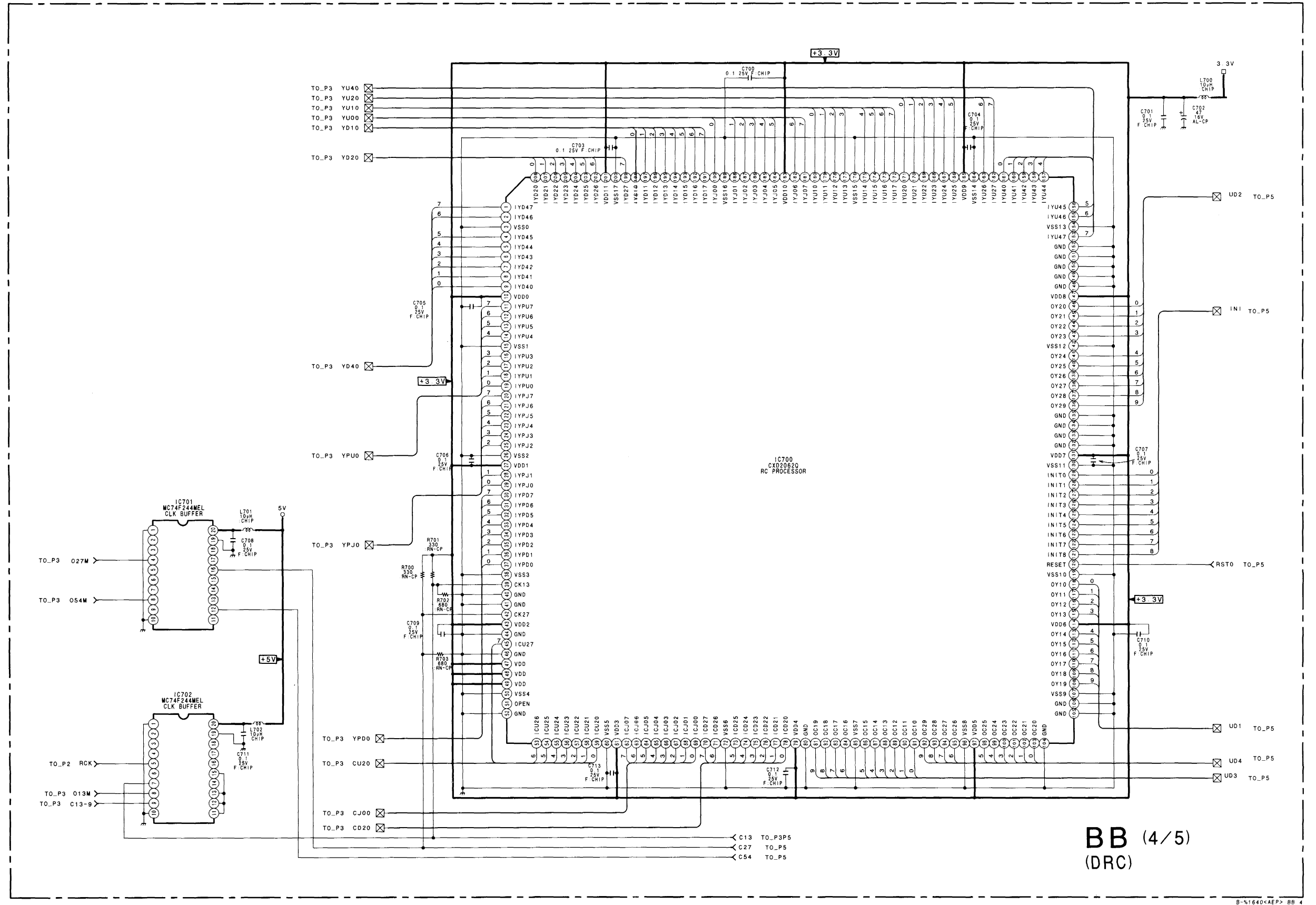
BB (1/5)
(INPUT)

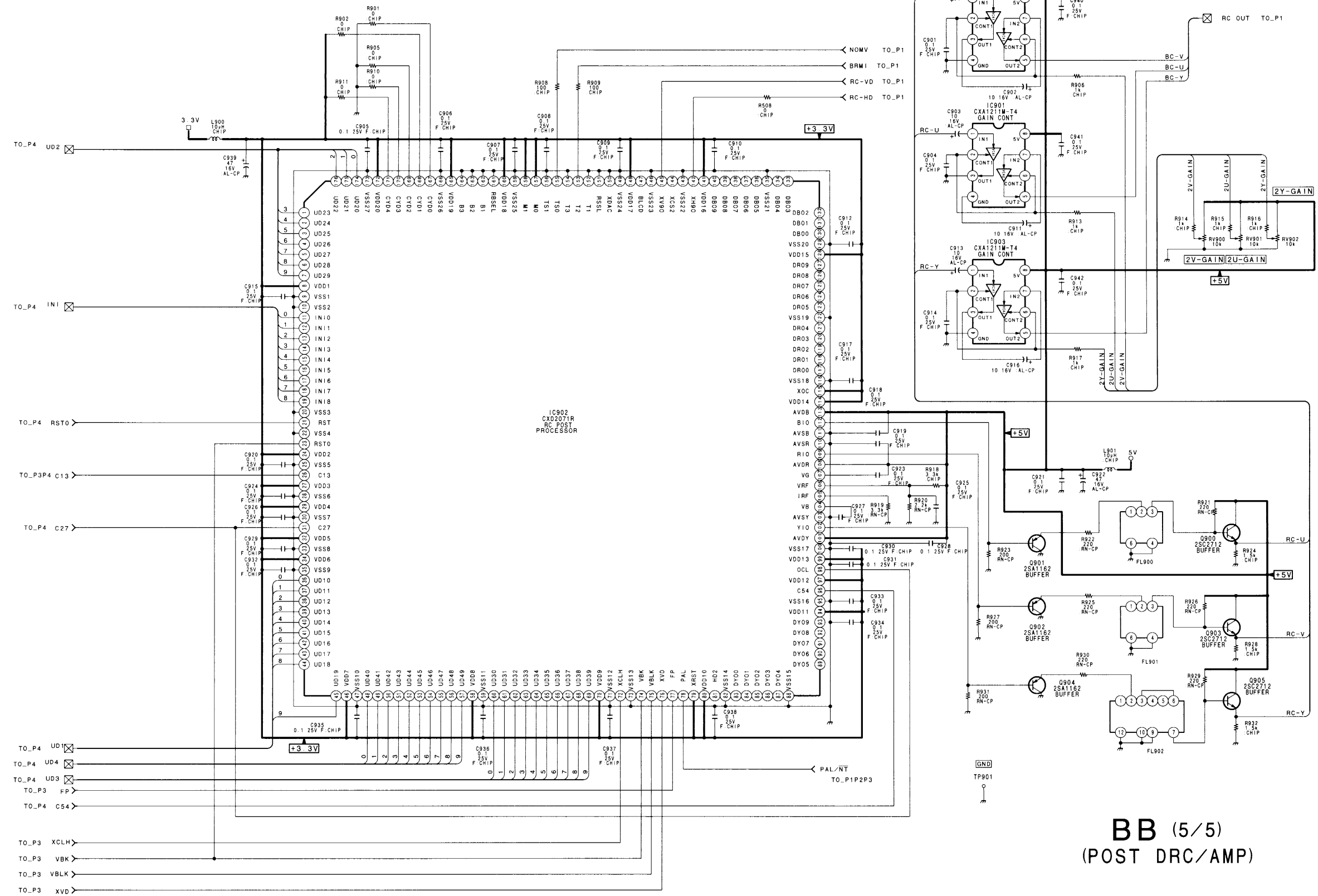
B-%SX1640<AEP>-BB-1

BB (2/5) BOARD

BB (3/5) BOARD

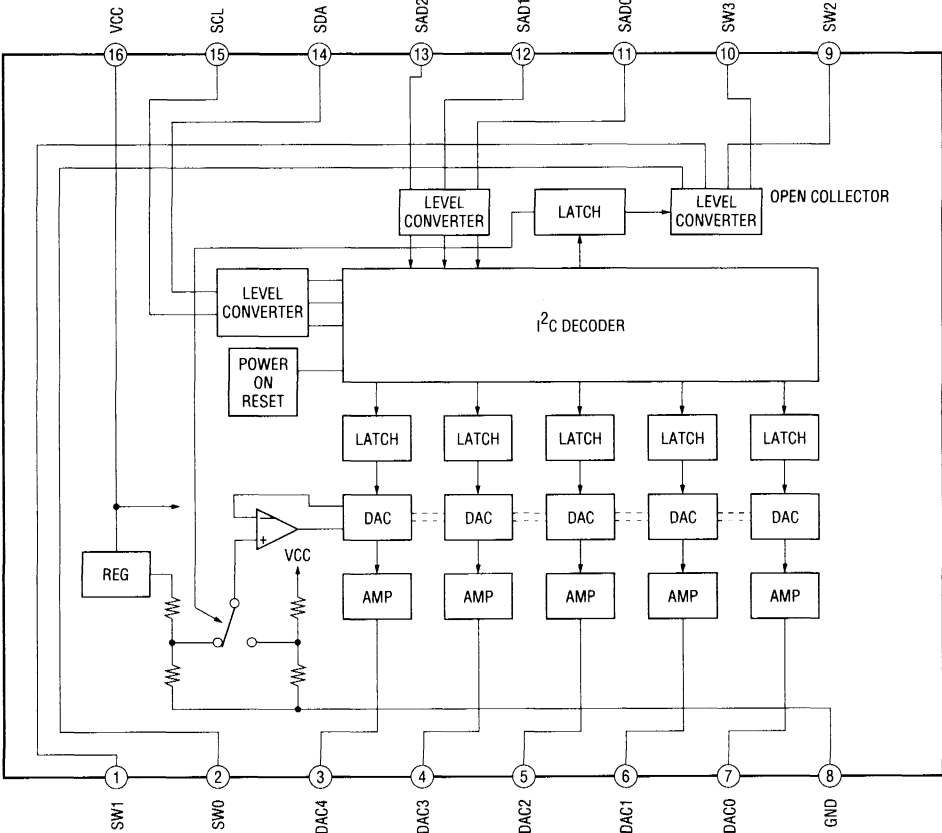




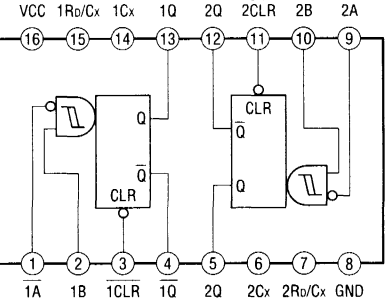
BB (5/5) BOARD

BB (5/5)
(POST DRC/AMP)

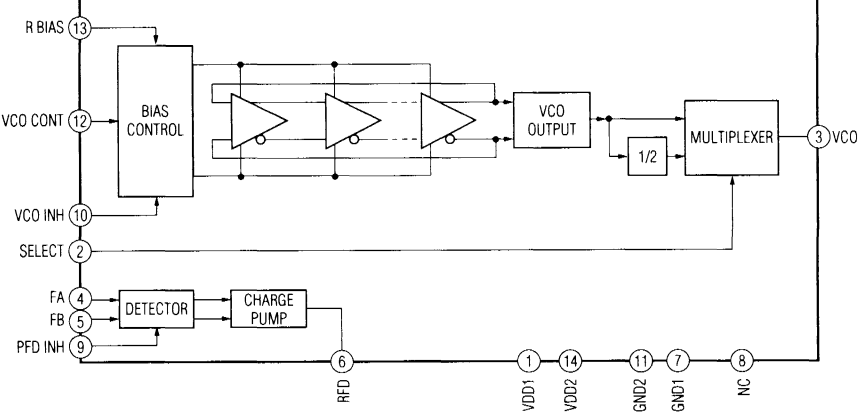
BB BOARD (1/5) IC1, 4
CXA1875AM



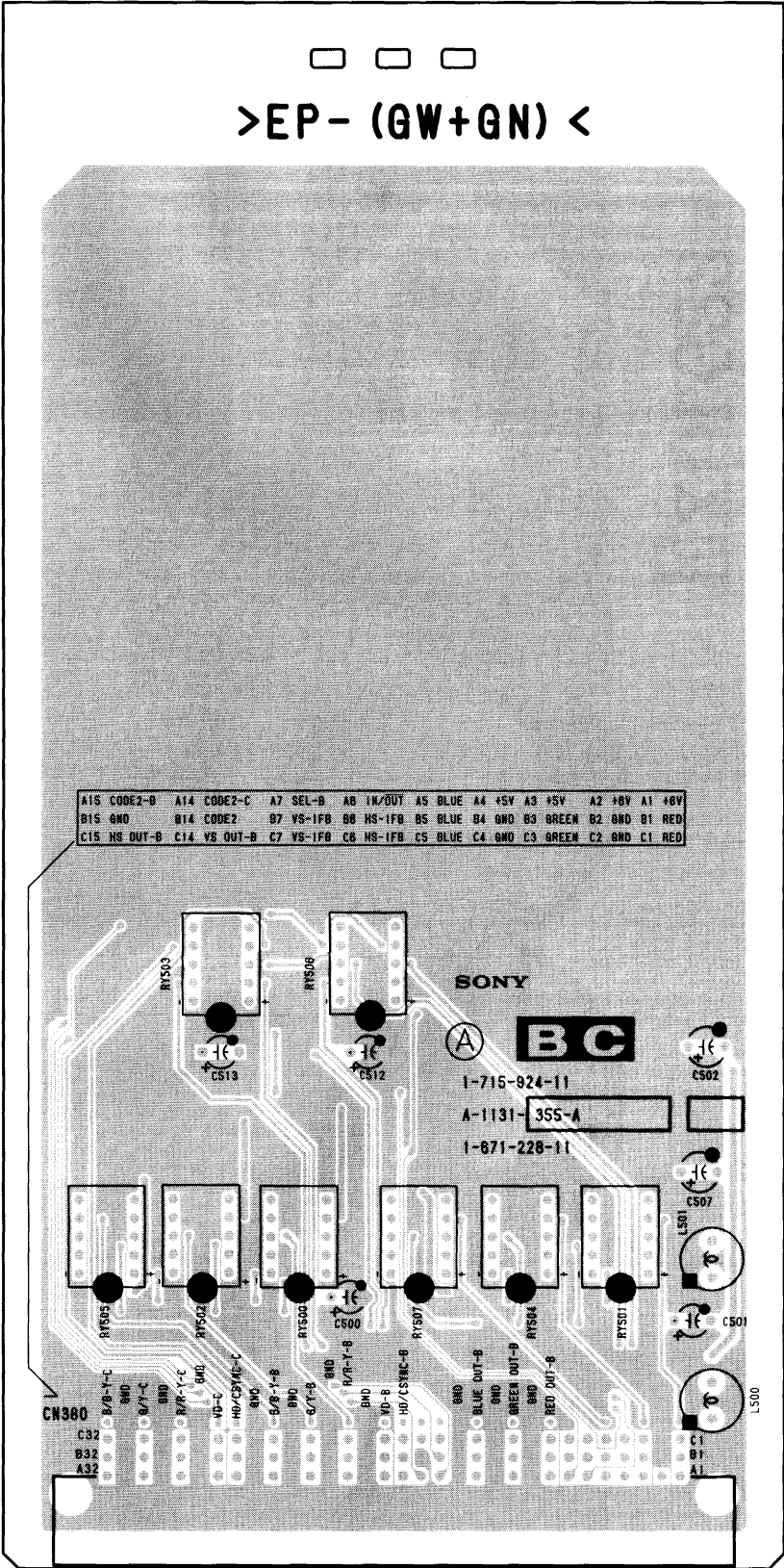
BB BOARD (2/5) IC303
TC74HC123AF



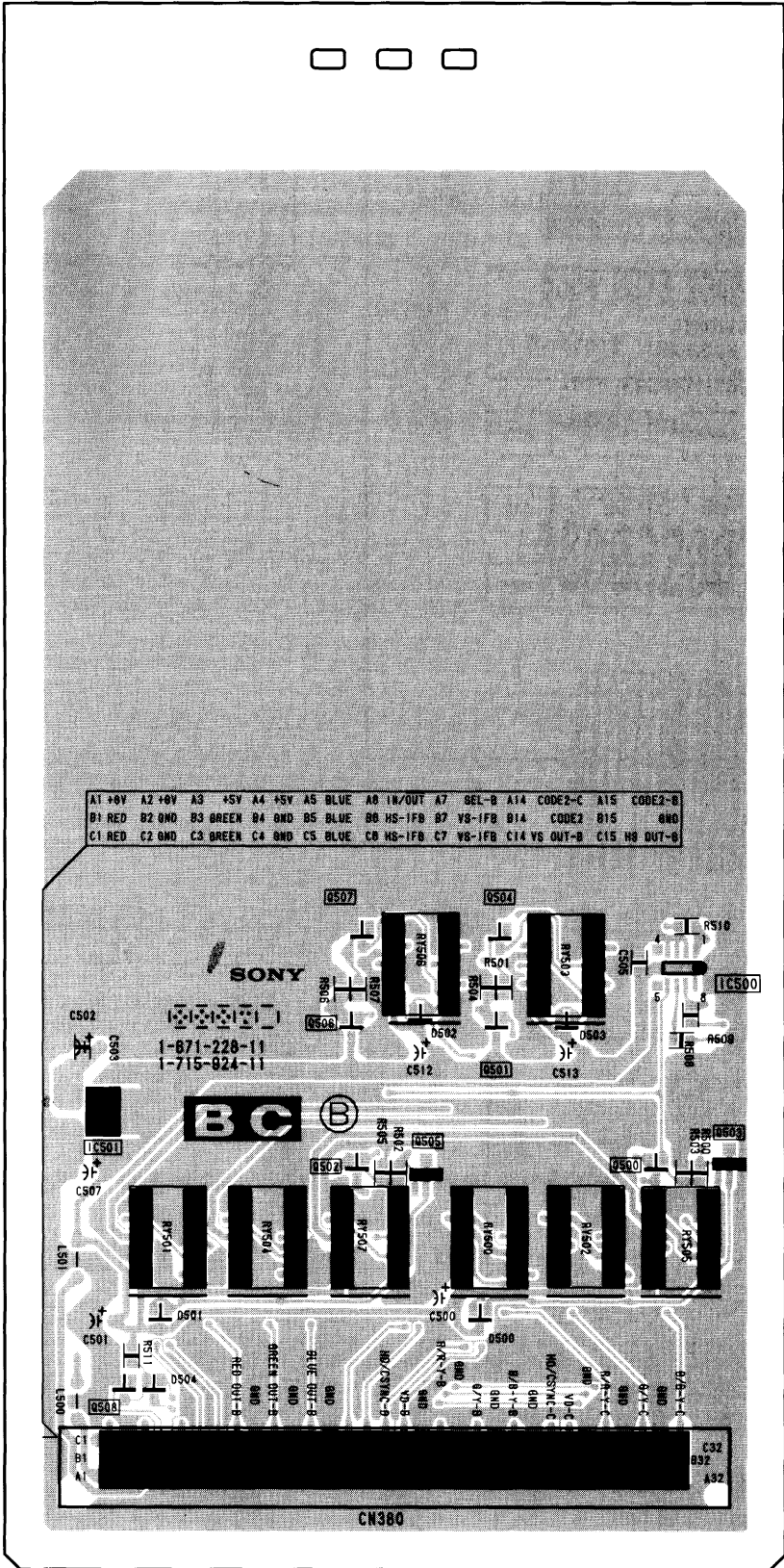
BB BOARD (2/5) IC302, 304
TLC2932IPW



BC BOARD



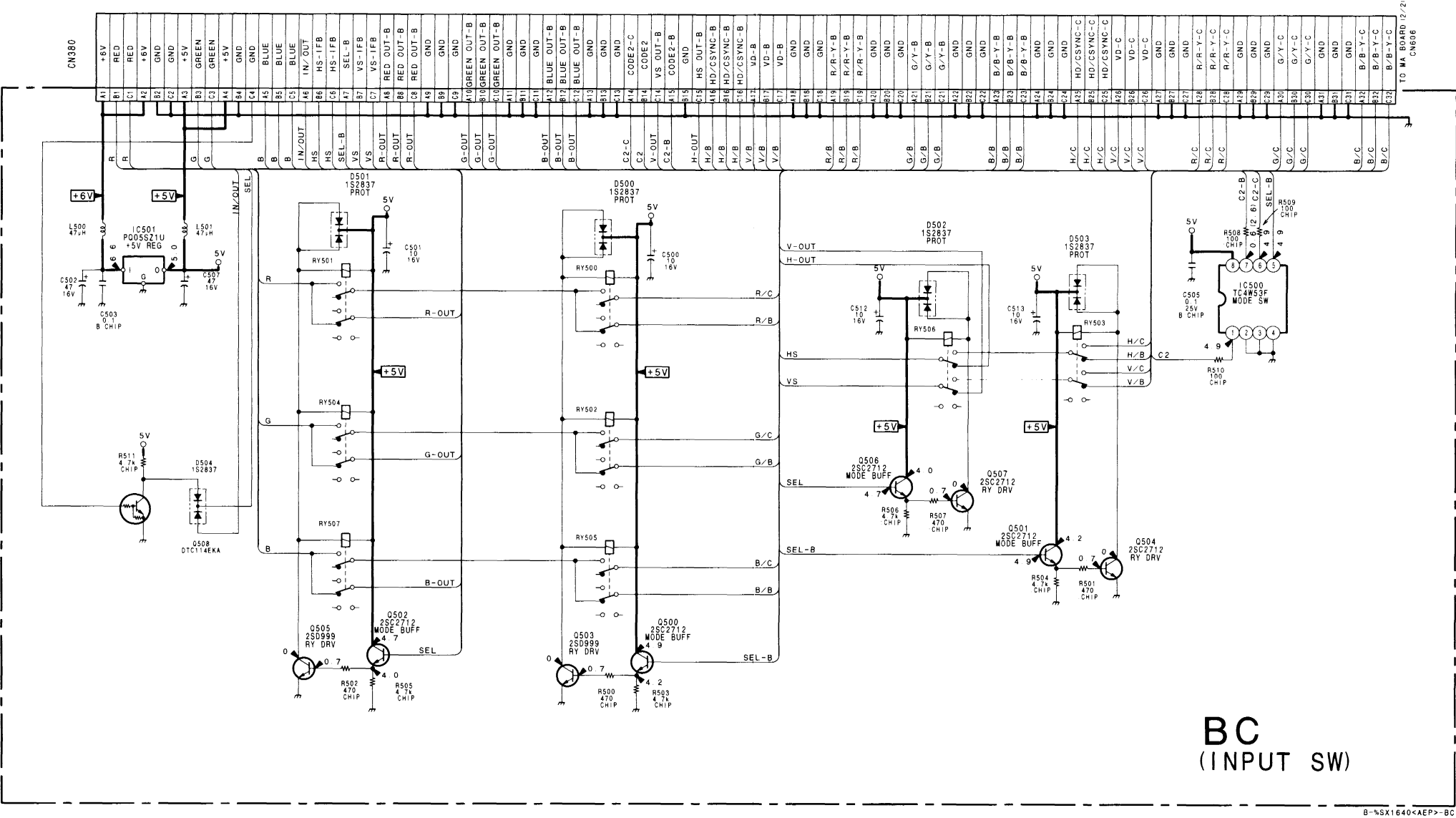
BC -A SIDE-
SUFFIX: -11



BC -B SIDE-
SUFFIX: -11

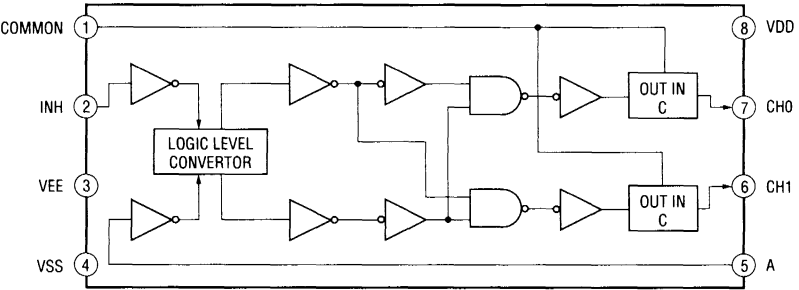
BC BOARD

BC BC

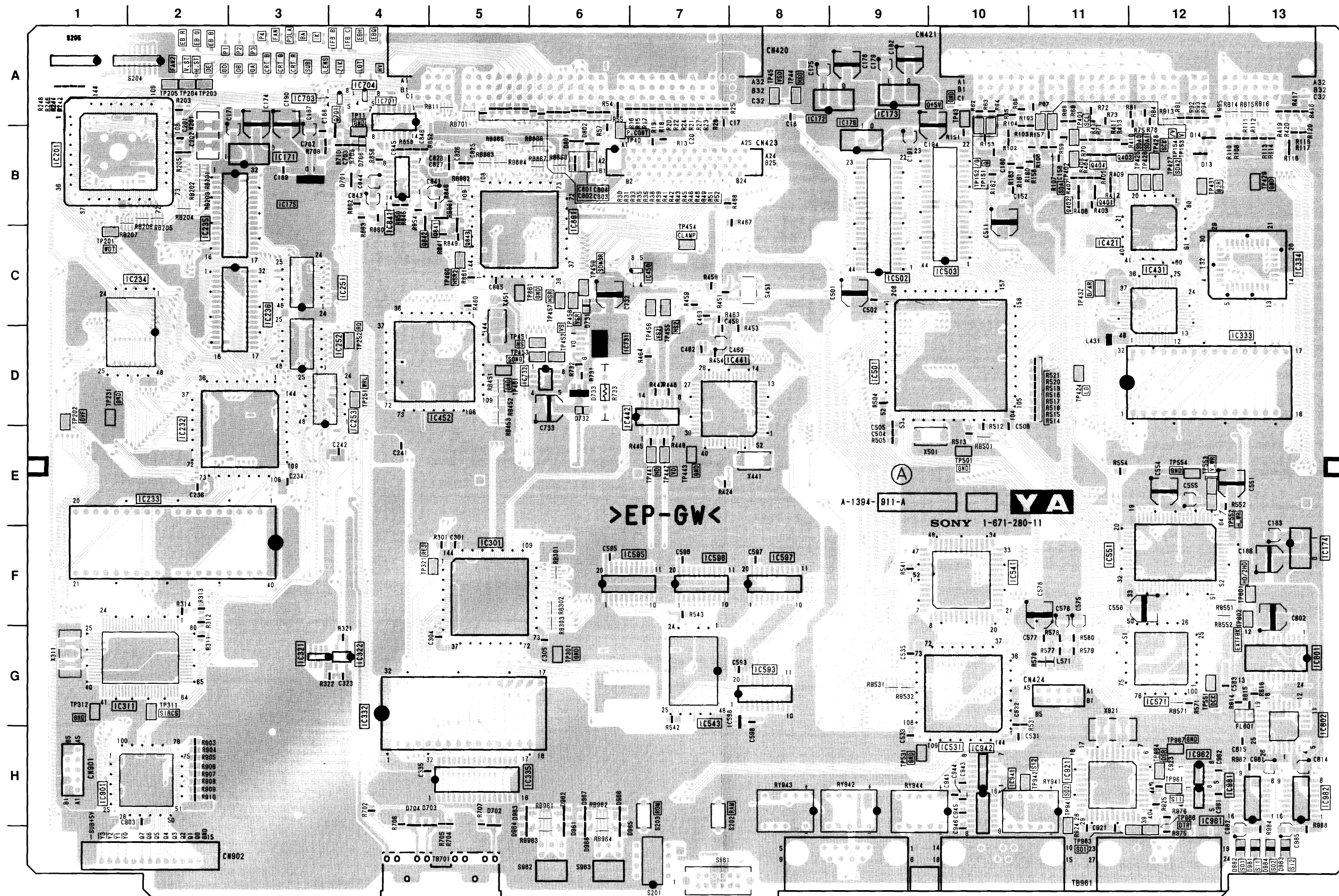


BC
(INPUT SW)

BC BOARD IC500
TC4W53F



YA BOARD

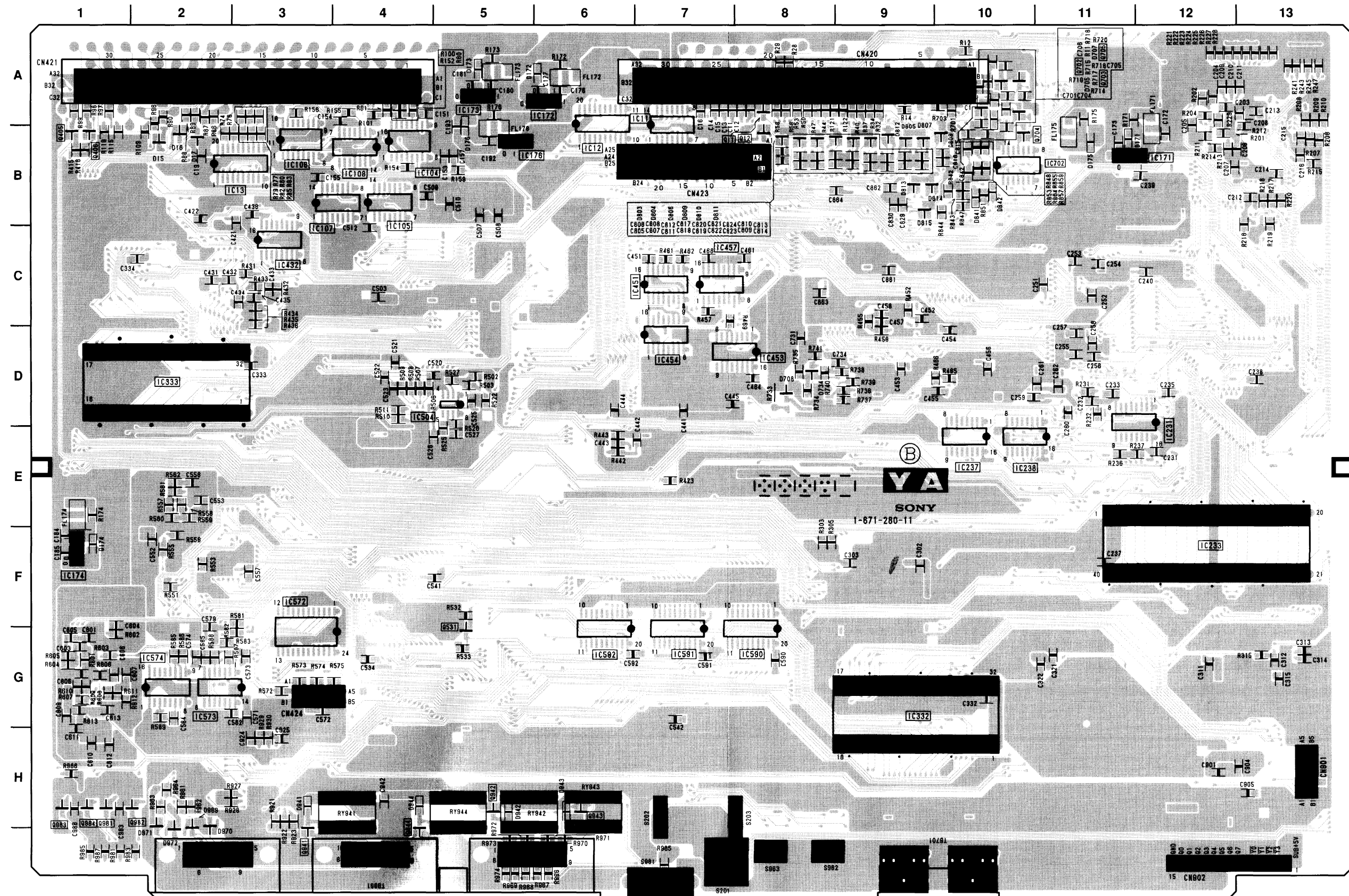


YA -A SIDE-
SUFFIX: -11

YA BOARD (A SIDE)

D13	B-12	TP11	A-4
D14	B-12	TP40	B-7
D701	B-4	TP43	A-10
D702	H-5	TP44	A-8
D703	H-5	TP45	A-8
D704	H-4	TP151	B-10
D706	B-4	TP152	B-10
D731	C-6	TP153	B-12
D732	D-6	TP154	B-12
D733	D-6	TP201	C-1
D801	B-6	TP202	D-1
D802	B-6	TP203	A-2
D961	H-6	TP204	A-2
D962	H-6	TP205	A-2
D963	H-5	TP231	D-1
D964	H-5	TP251	D-4
D965	H-6	TP252	D-4
D966	H-6	TP301	G-6
D967	H-6	TP311	G-2
D968	H-6	TP312	G-1
D981	H-13	TP321	F-4
D982	H-13	TP401	A-11
D983	H-13	TP402	B-11
D984	H-13	TP424	D-11
		TP425	B-12
IC171	B-3	TP426	B-12
IC172	A-8	TP427	B-12
IC173	A-9	TP428	B-12
IC174	F-13	TP429	B-13
IC175	B-3	TP431	B-12
IC176	A-9	TP432	C-11
IC201	B-1	TP441	E-7
IC232	E-2	TP442	E-7
IC233	E-2	TP443	E-7
IC234	C-2	TP451	D-5
IC235	C-2	TP452	D-6
IC238	C-3	TP453	D-5
IC251	C-4	TP454	C-7
IC252	D-4	TP455	D-7
IC253	D-4	TP456	D-7
IC301	F-5	TP457	C-6
IC311	G-1	TP458	C-6
IC321	G-3	TP459	C-6
IC322	G-4	TP461	D-5
IC332	G-4	TP480	C-5
IC333	D-13	TP501	E-10
IC334	C-13	TP531	H-9
IC335	H-5	TP551	G-12
IC421	C-11	TP552	E-13
IC431	C-12	TP553	E-12
IC441	D-8	TP554	E-12
IC442	D-6	TP601	F-13
IC452	D-5	TP602	F-13
IC456	C-7	TP861	C-5
IC501	D-9	TP941	H-11
IC502	C-9	TP942	H-11
IC503	C-10	TP961	H-12
IC531	H-10	TP964	H-12
IC541	F-10	TP967	H-12
IC543	G-7	TP968	H-12
IC551	F-11	TP983	H-11
IC571	G-12		
IC593	G-8		
IC595	F-7		
IC596	F-7		
IC597	F-8		
IC598	G-7		
IC601	G-13		
IC602	G-13		
IC701	A-4		
IC703	A-3		
IC704	A-4		
IC731	D-6		
IC732	D-5		
IC841	B-4		
IC861	B-6		
IC901	H-1		
IC921	H-11		
IC941	H-10		
IC942	H-10		
IC961	H-12		
IC962	H-12		
IC981	H-12		
IC982	H-13		
Q401	B-11		
Q402	B-11		
Q403	B-11		
Q404	B-11		
Q701	A-4		
Q841	C-5		
Q842	C-4		
Q843	C-5		

YA BOARD



YA -B SIDE-
SUFFIX: -11

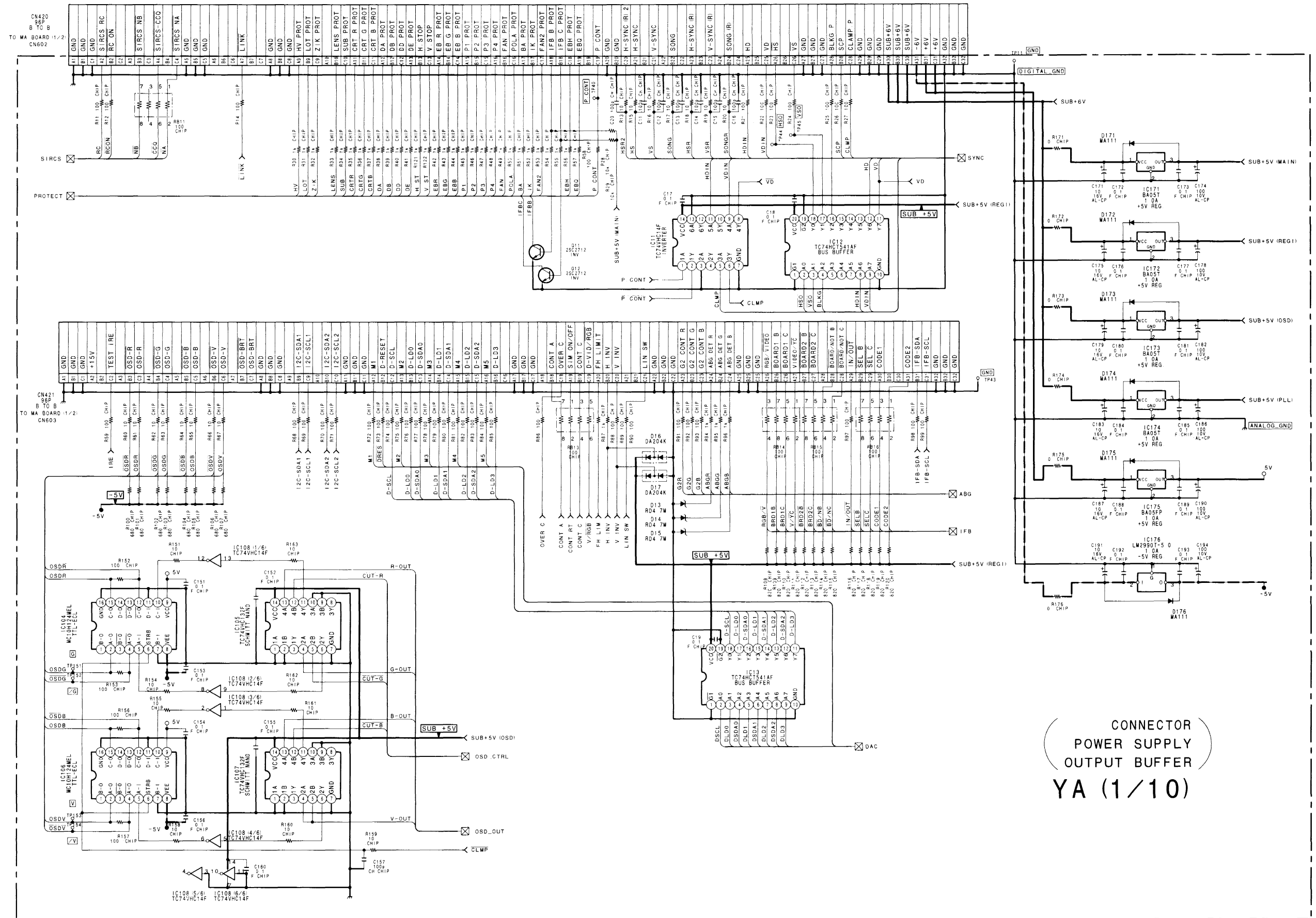
YA BOARD (B SIDE)

D15 B-2
D16 B-2
D17 B-2
D171 B-11
D172 A-5
D173 A-5
D174 F-1
D175 B-11
D176 B-5
D705 A-11
D707 A-11
D708 D-8
D734 D-8
D803 B-7
D804 B-7
D805 B-9
D806 B-7
D807 A-9
D809 B-7
D809 B-10
D810 B-7
D811 B-7
D812 B-9
D813 B-9
D814 B-9
D815 B-9
D841 B-10
D842 B-10
D941 H-3
D942 H-5
D943 H-6
D944 H-4
D969 H-2
D970 H-2
D971 H-2
D972 H-2

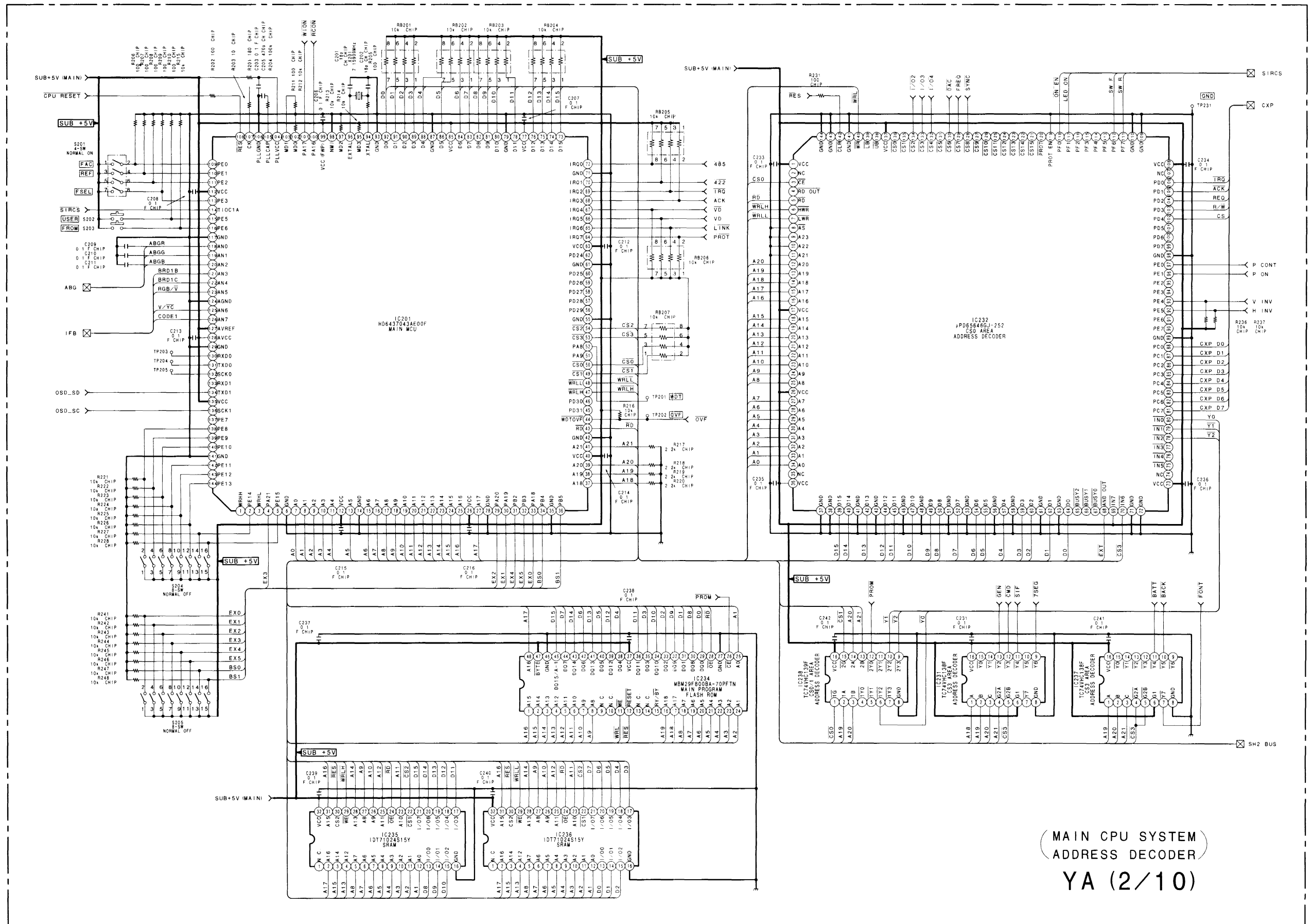
IC174 F-1
IC231 E-12
IC233 F-12
IC332 G-9
IC572 F-3
IC573 G-2
IC574 G-2
IC590 G-8
IC591 G-7
IC592 G-6

Q11 B-7
Q12 B-8
Q405 B-1
Q406 B-1
Q531 F-5
Q702 A-11
Q703 A-11
Q704 B-10
Q705 A-11
Q941 H-3
Q942 H-5
Q943 H-6
Q944 H-4
Q981 H-1
Q982 H-2
Q983 H-1
Q984 H-1

YA (1/10) BOARD



YA (2/10) BOARD



YA (3/10) BOARD

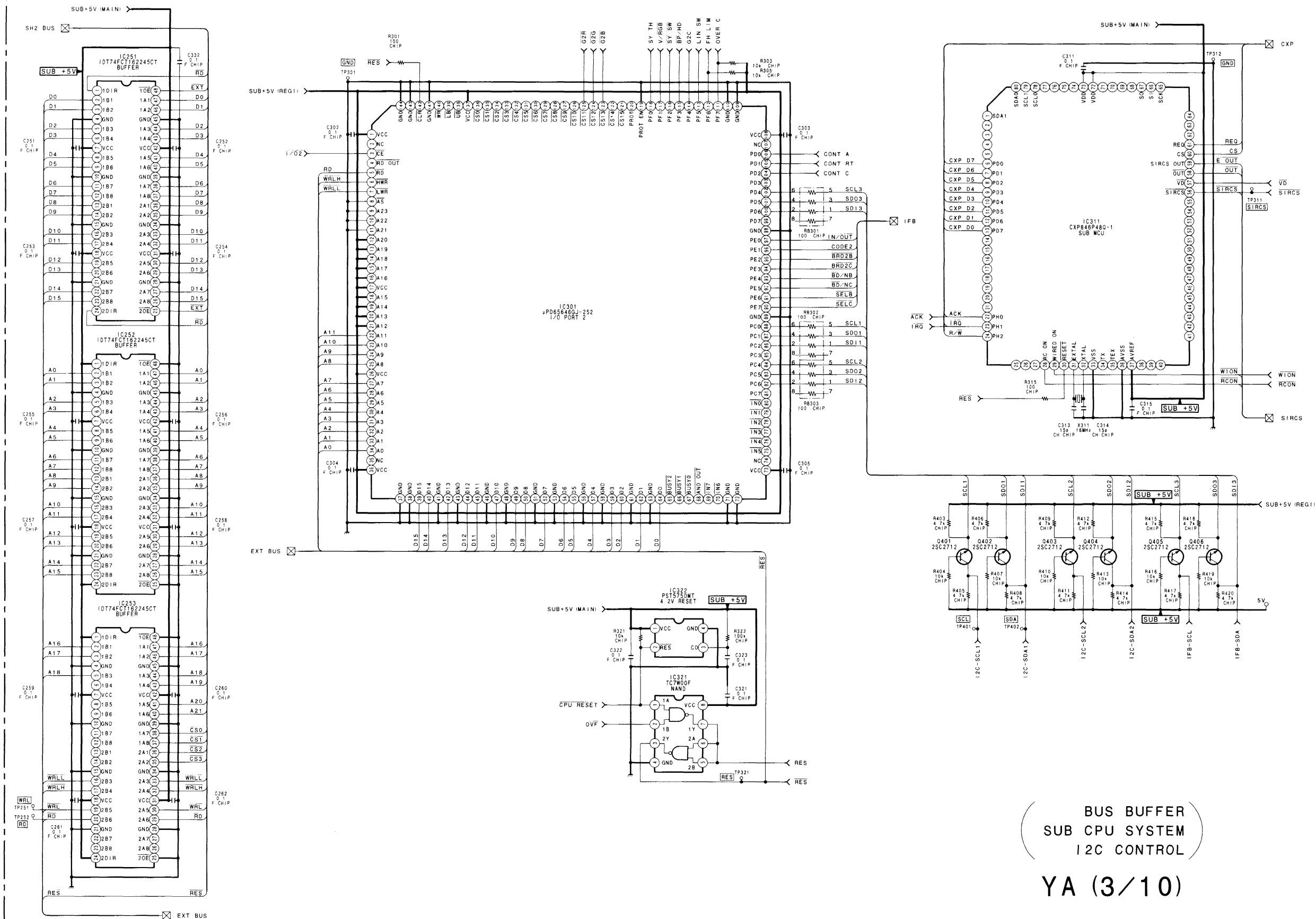
1

2

3

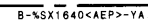
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5

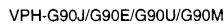


BUS BUFFER
SUB CPU SYSTEM
I2C CONTROL
YA (3/10)

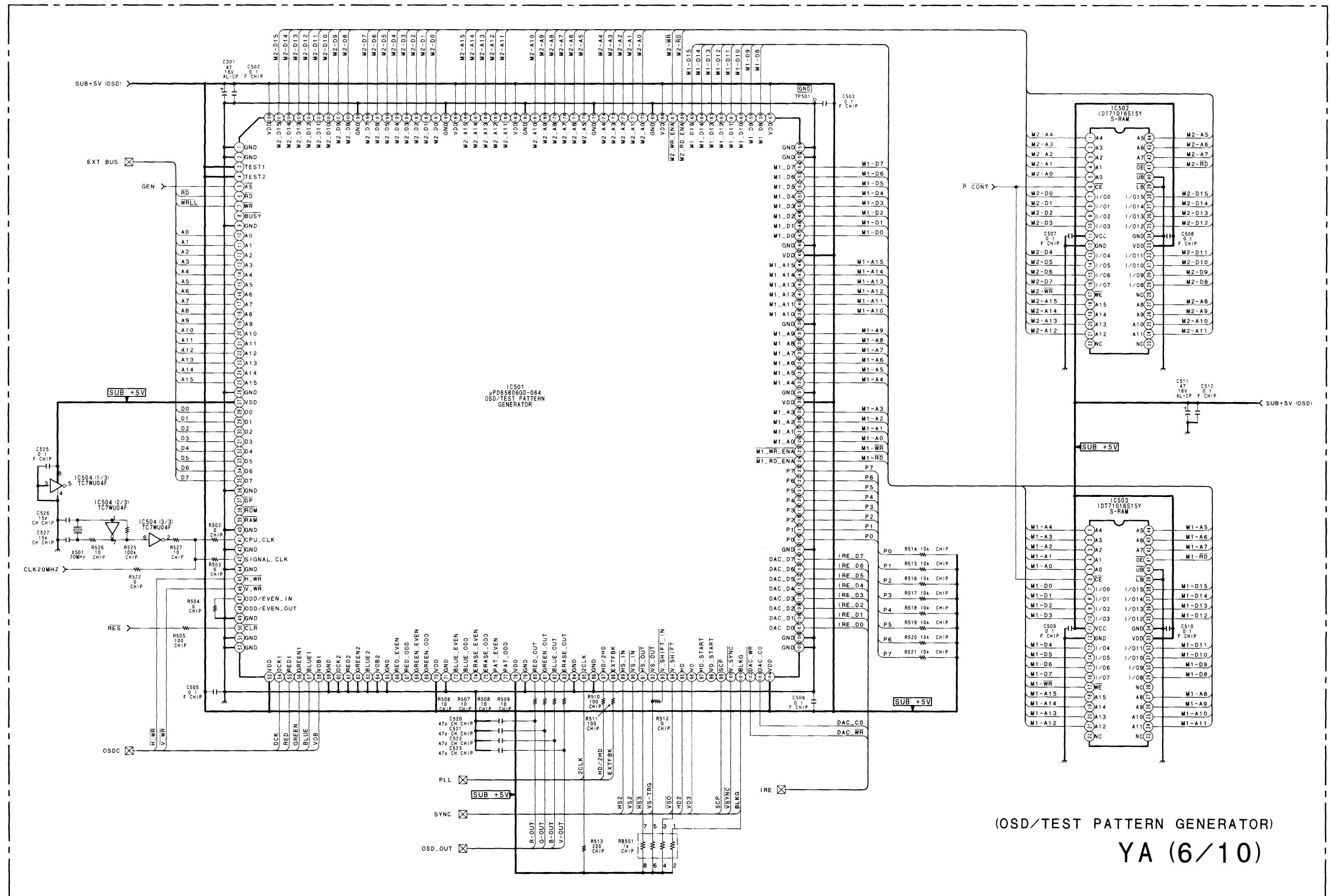
5



H



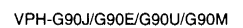
YA (6/10) BOARD

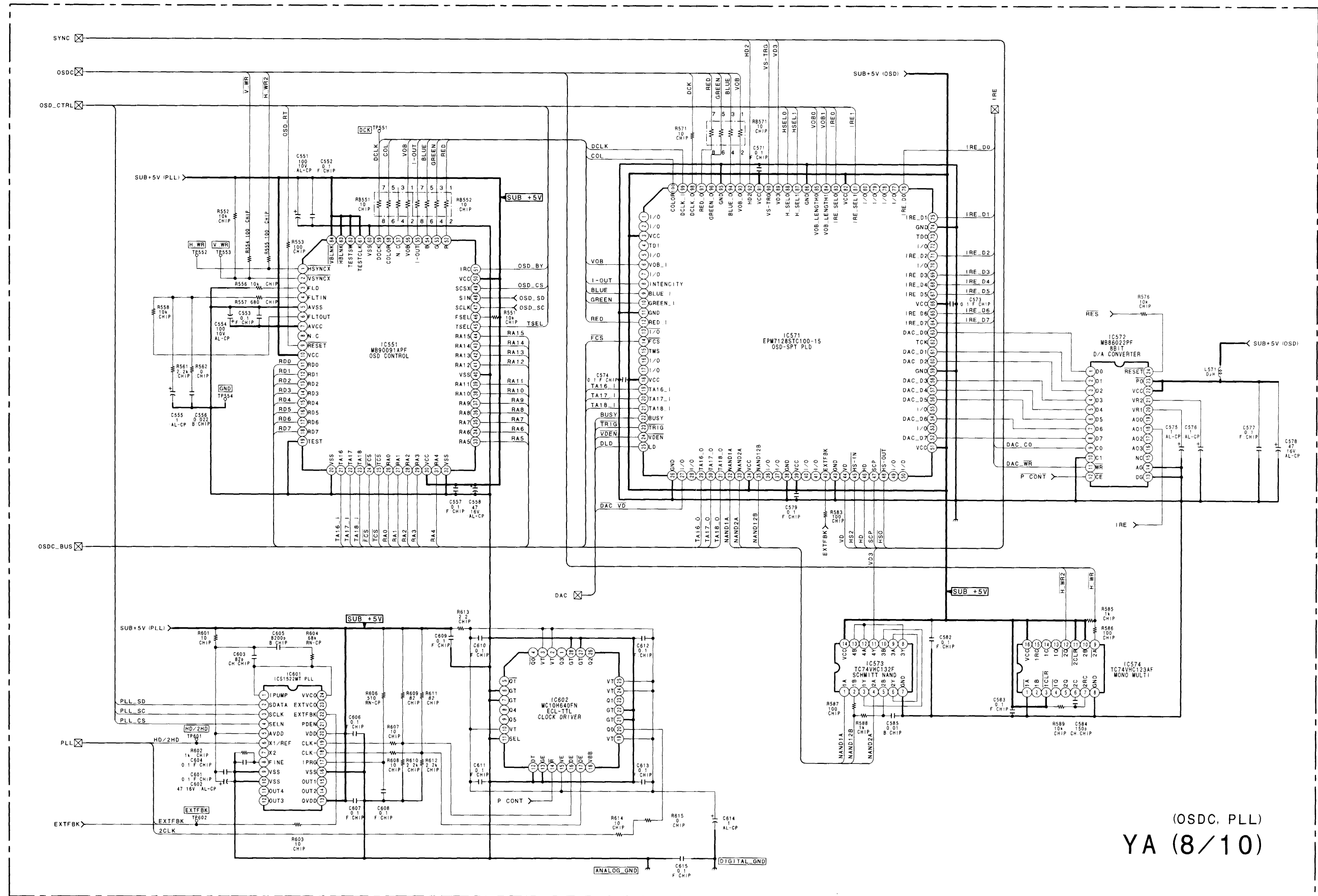


(OSD/TEST PATTERN GENERATOR)

YA (6/10)

H



YA (8/10) BOARD

YA (9/10) BOARD

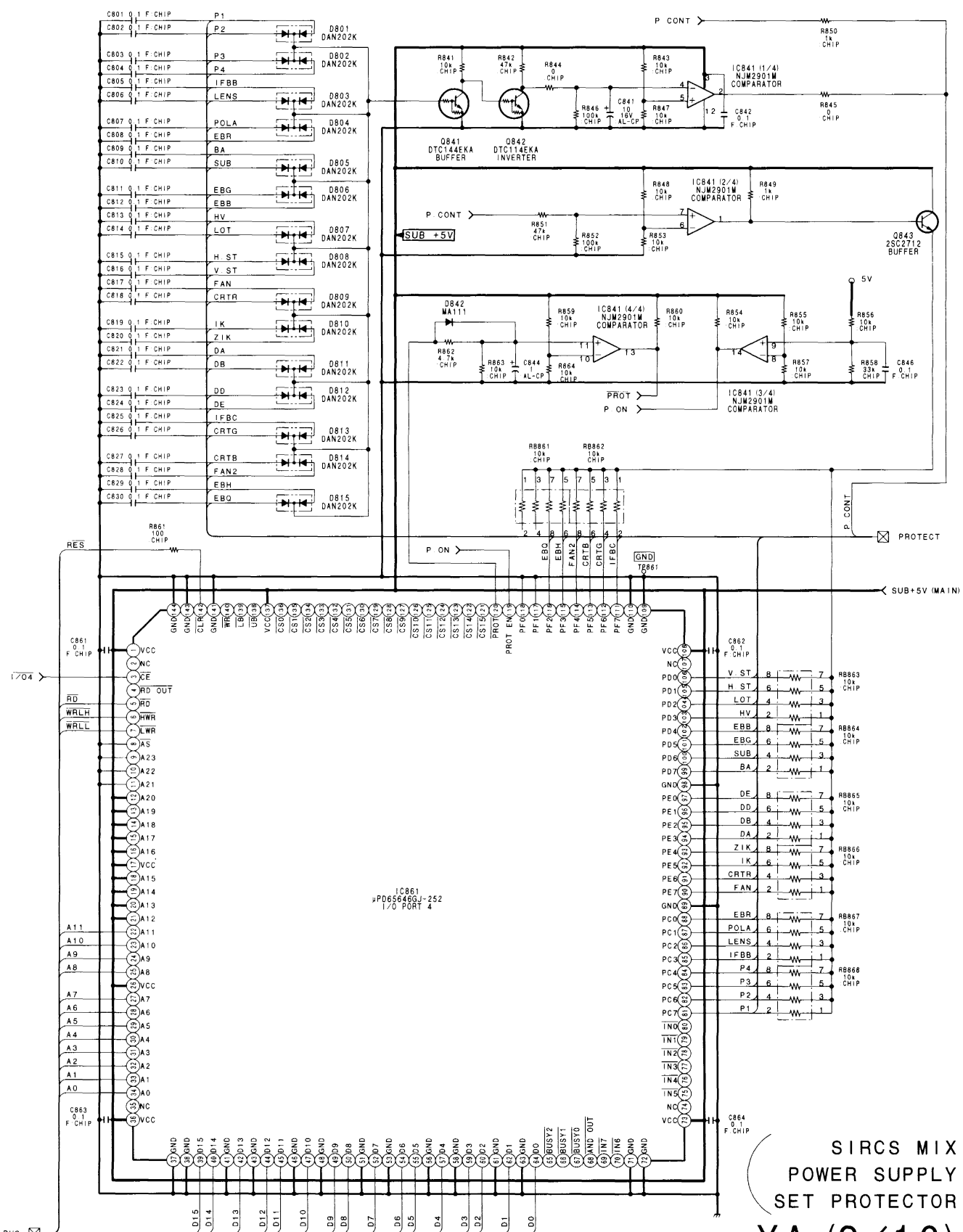
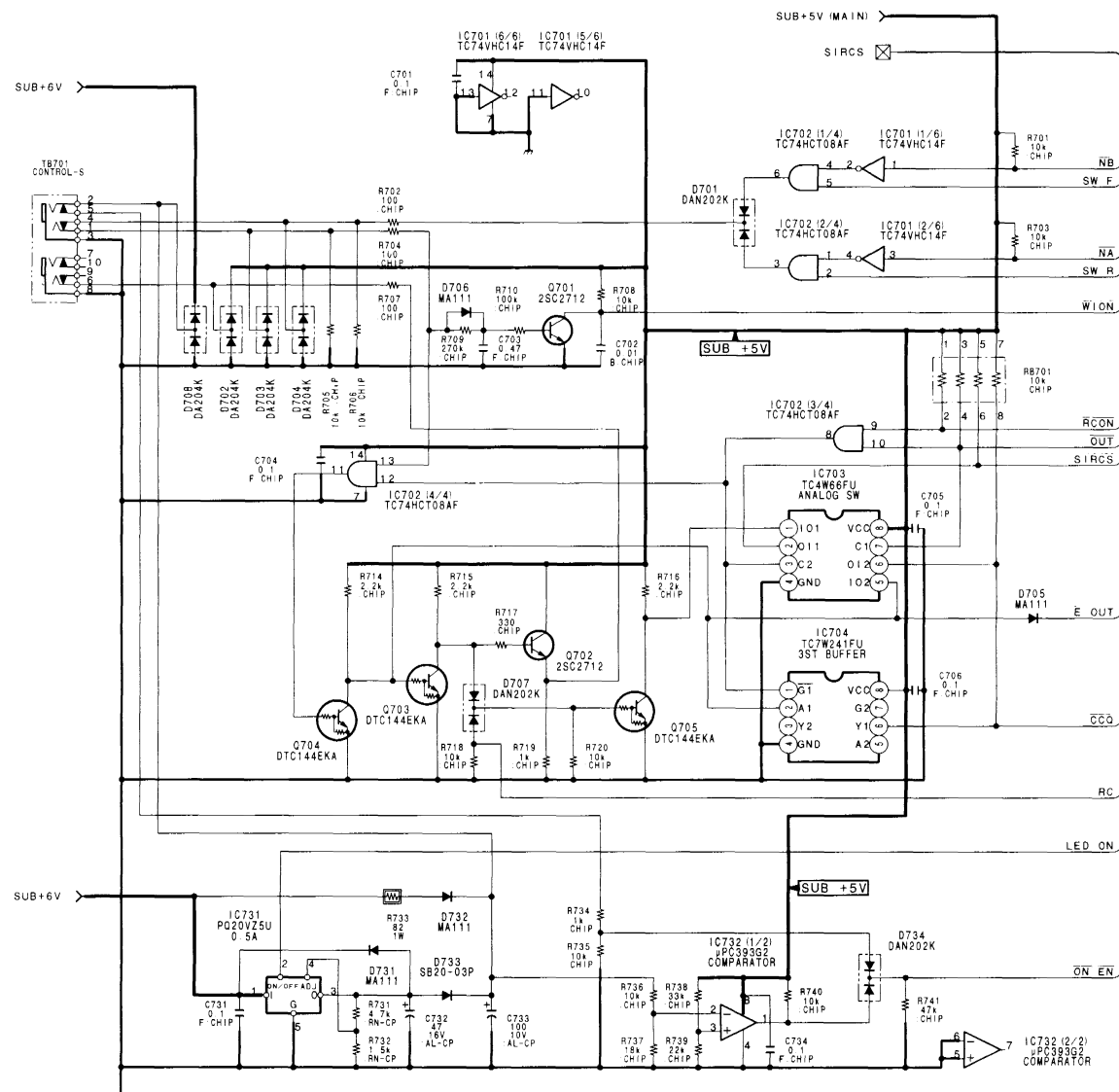
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2

3

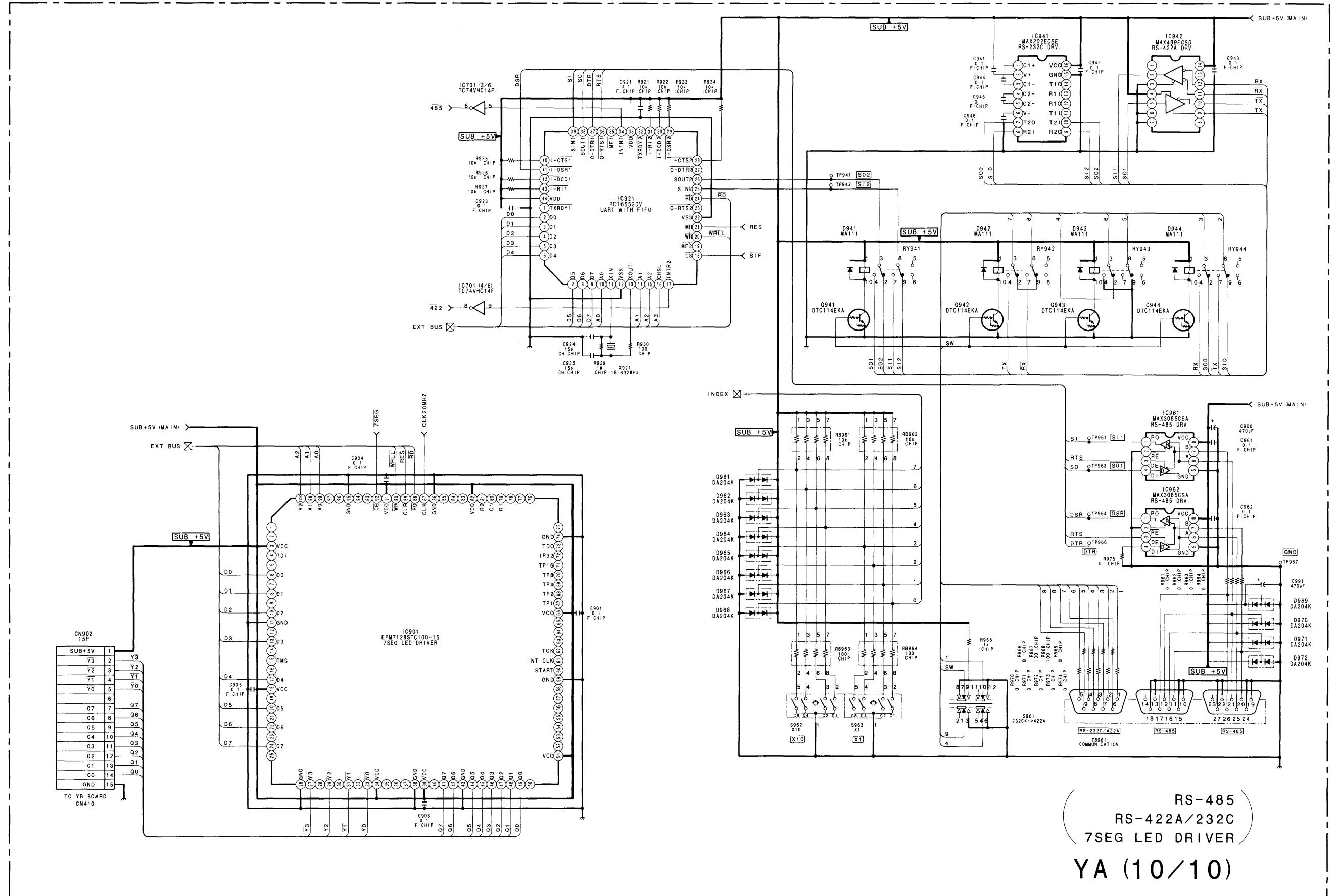
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5

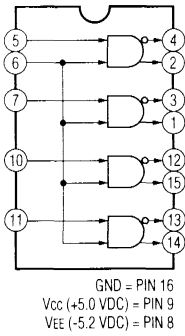


SIRCS MIX
POWER SUPPLY
SET PROTECTOR
YA (9/10)

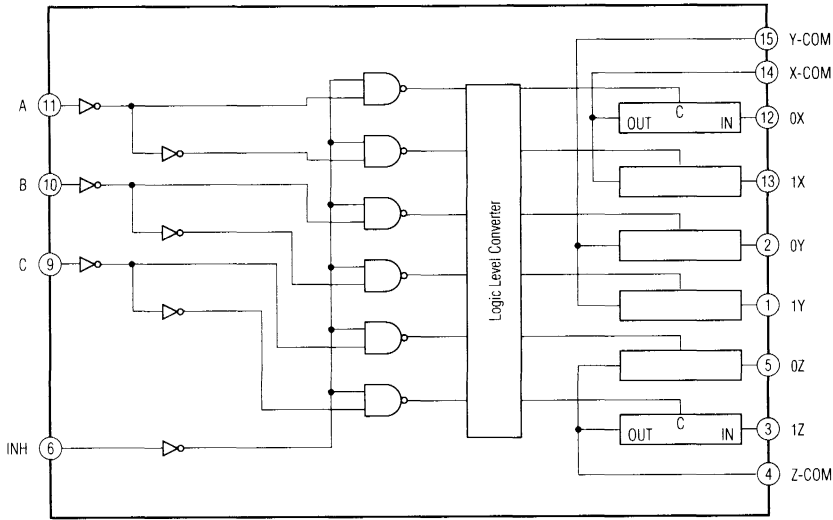
YA (10/10) BOARD



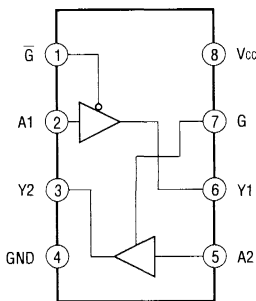
**YA BOARD (1/10) IC104, 106
MC10H124MEL**



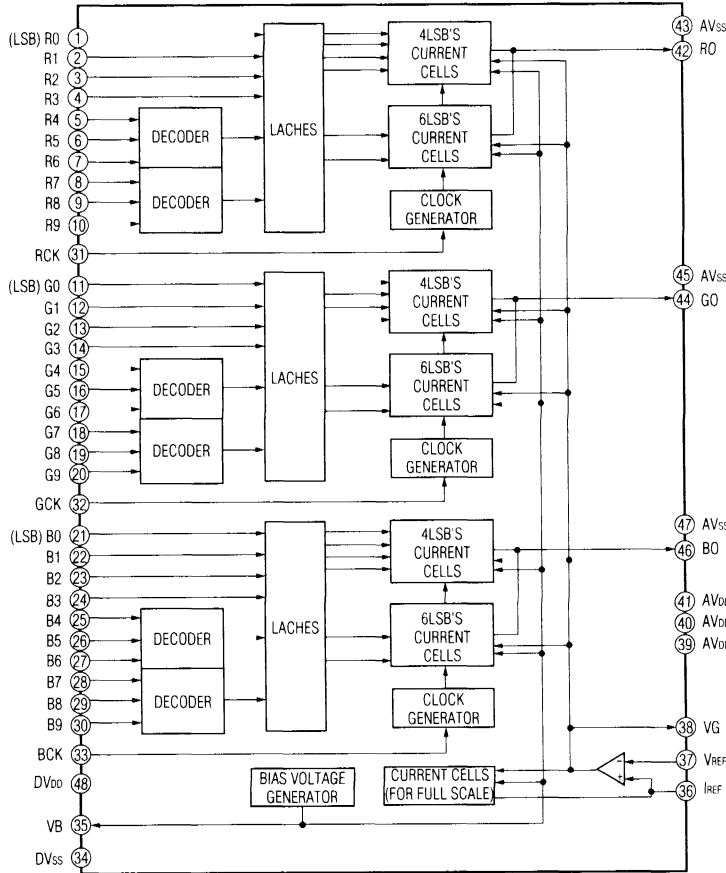
**YA BOARD (4/10) IC432
TC74HC4053A**



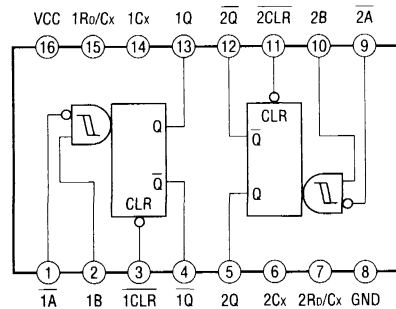
**YA BOARD (5/10) IC456
TC7W241FU**



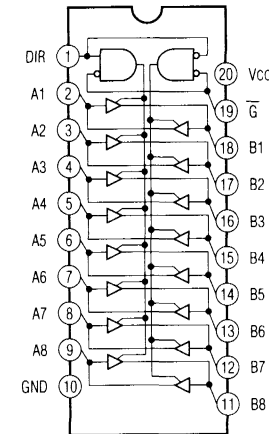
**YA BOARD (4/10) IC431
CXD2309Q**



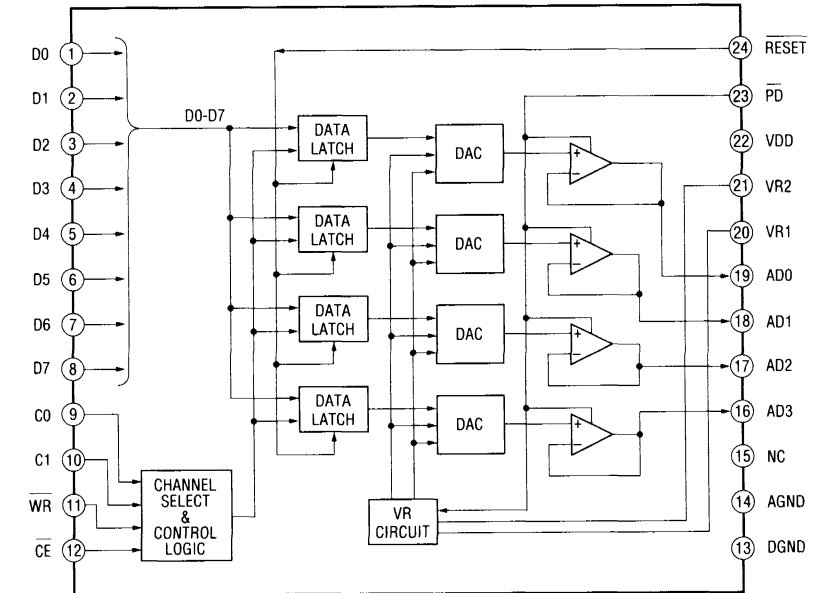
**YA BOARD (5/10) IC454
YA BOARD (8/10) IC574
TC74VHC123AF**



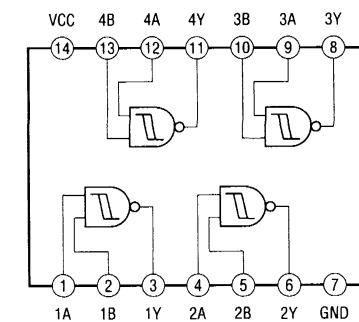
**YA BOARD (7/10) IC590-593, 595-597
TC74VHC245F**



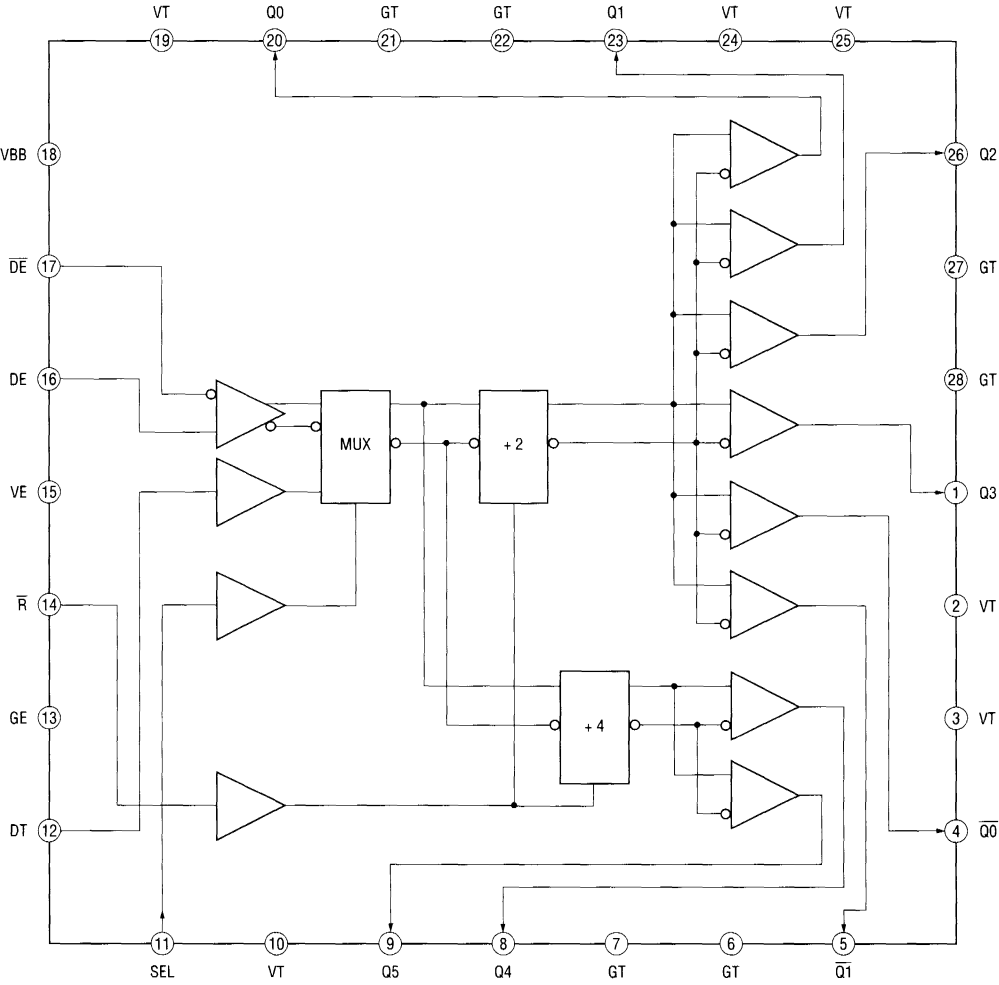
**YA BOARD (8/10) IC572
MB86022PF**



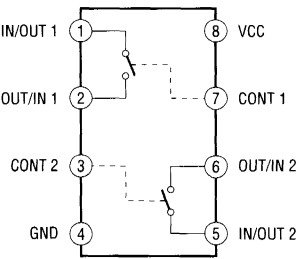
**YA BOARD (8/10) IC573
TC74VHC132F**



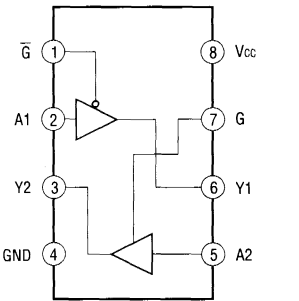
YA BOARD (8/10) IC602
MC10H640FN



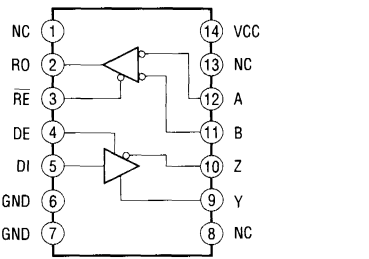
YA BOARD (9/10) IC703
TC4W66FU



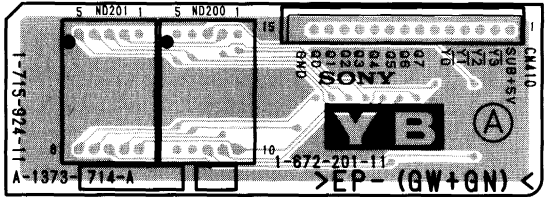
YA BOARD (9/10) IC704
TC7W241FU



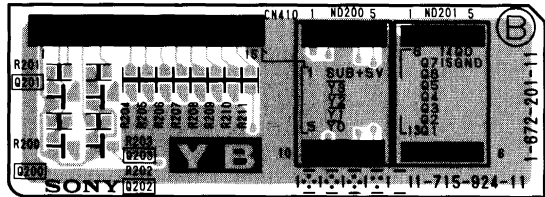
YA BOARD (10/10) IC961, 962
MAX3085CSA



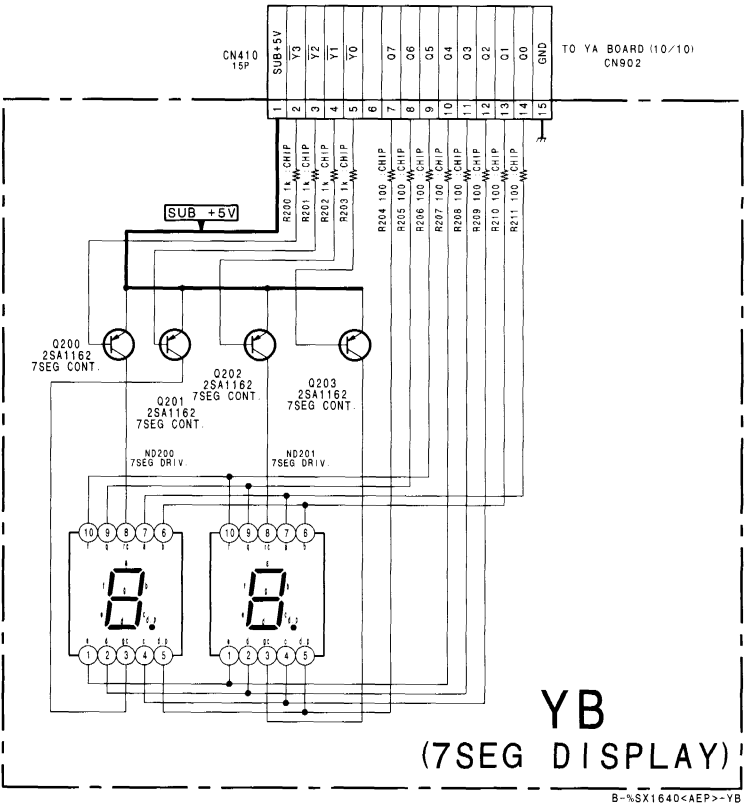
YB BOARD



YA -B SIDE-
SUFFIX: -11



YB -B SIDE-
SUFFIX: -11



DA BOARD

DA BOARD (A SIDE)

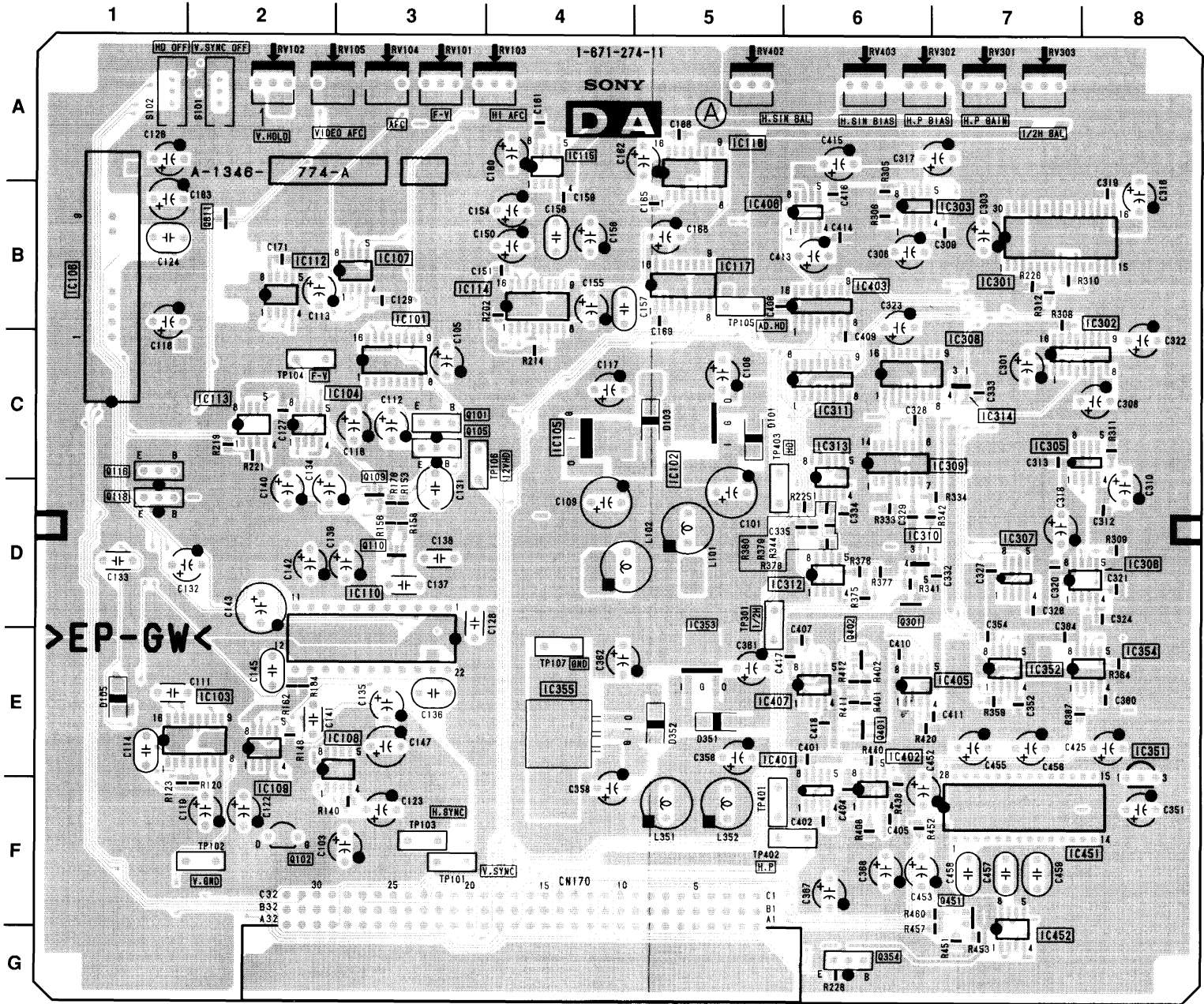
D101 C-5
D103 C-5
D105 E-1
D351 E-5
D352 E-5

IC101 B-3
IC102 C-5
IC103 E-2
IC104 C-3
IC105 C-4
IC106 B-1
IC107 B-3
IC108 E-3
IC108 F-2
IC110 D-3
IC112 B-2
IC113 C-2
IC114 B-3
IC115 A-4
IC116 A-5
IC117 B-5
IC301 B-7
IC302 B-8
IC303 B-7
IC305 C-7
IC307 D-7
IC308 C-7
IC308 D-8
IC309 C-7
IC310 D-6
IC311 C-6
IC312 D-6
IC313 C-6
IC314 C-7
IC351 E-8
IC352 E-7
IC353 D-5
IC354 E-8
IC355 E-4
IC401 E-5
IC402 E-6
IC403 B-6
IC405 E-7
IC406 B-5
IC407 E-5
IC451 F-8
IC452 G-7

Q101 C-3
Q102 F-2
Q105 C-3
Q109 C-3
Q110 D-3
Q116 C-1
Q118 D-1
Q301 D-6
Q354 G-6
Q401 E-6
Q402 D-6
Q451 F-7
Q811 B-2

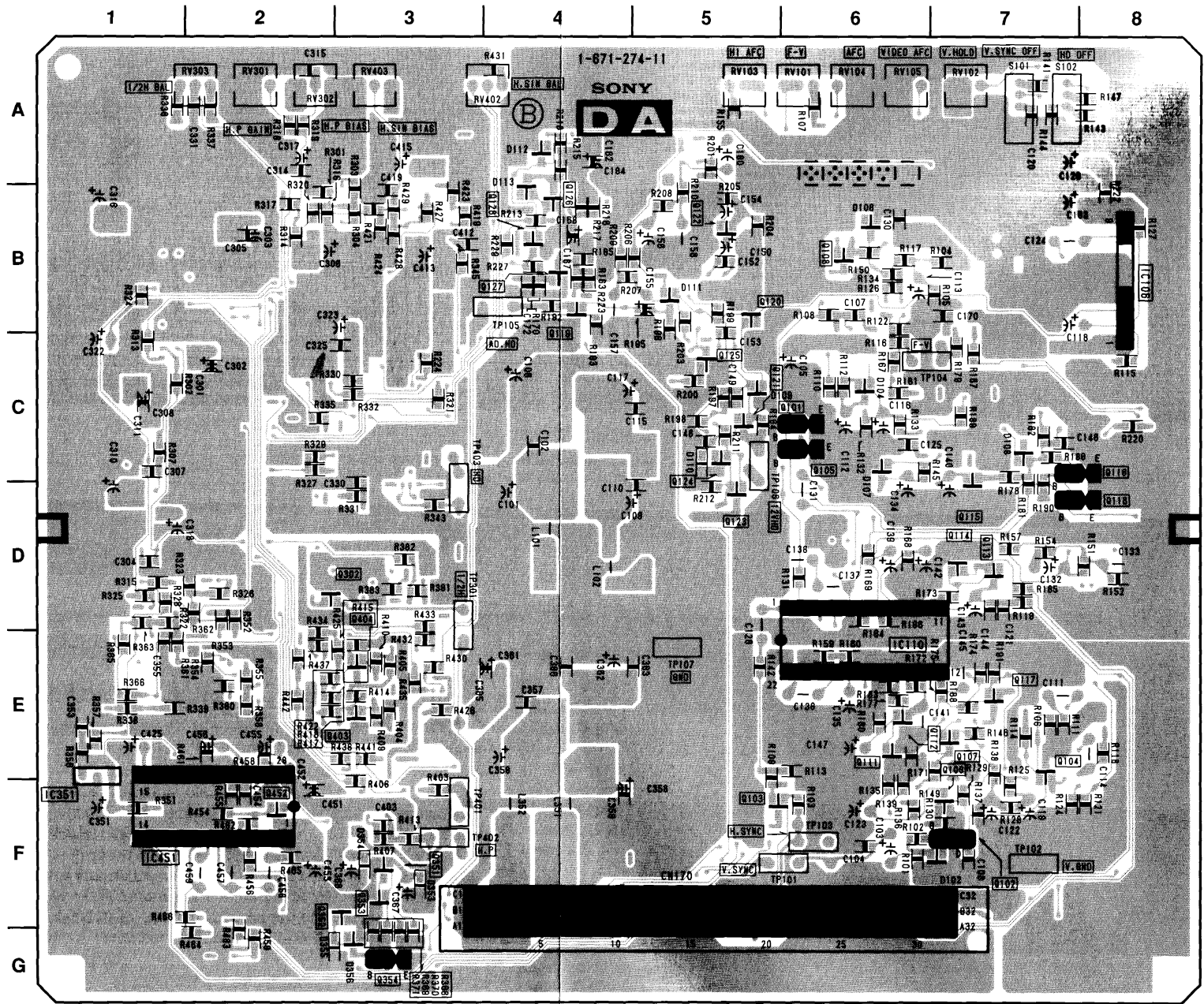
RV101 A-3
RV102 A-2
RV103 A-4
RV104 A-3
RV105 A-3
RV301 A-7
RV302 A-7
RV303 A-7
RV402 A-5
RV403 A-6

TP101 F-3
TP102 F-2
TP103 F-3
TP104 C-2
TP105 B-5
TP106 C-4
TP107 E-4
TP301 D-5
TP401 F-5
TP402 F-5
TP403 C-5



DA -A SIDE-
SUFFIX: -11

DA BOARD (B SIDE)



- D102 F-7
- D104 C-6
- D106 B-6
- D107 D-6
- D108 C-7
- D109 C-5
- D110 C-5
- D111 B-5
- D112 A-4
- D113 A-4
- D353 F-3
- D354 F-3
- D355 G-2
- D356 G-3

- IC106 B-8
- IC110 E-6
- IC351 F-1
- IC451 F-1

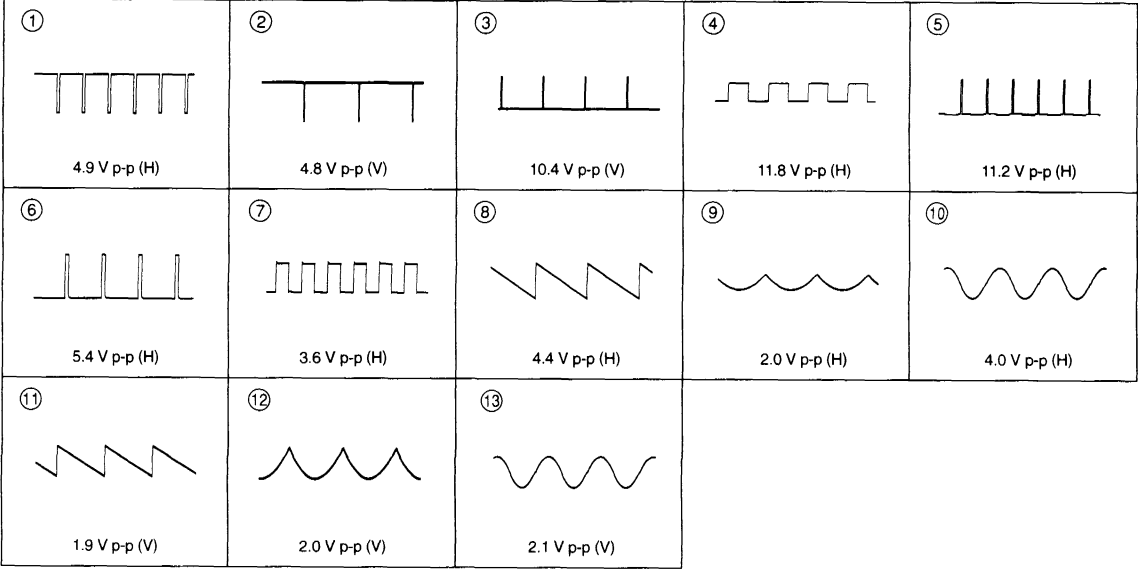
- Q101 C-6
- Q102 F-7
- Q103 F-5
- Q104 E-7
- Q105 C-6
- Q106 E-7
- Q107 E-7
- Q108 B-6
- Q111 E-6
- Q112 E-7
- Q113 D-7
- Q114 D-7
- Q115 D-7
- Q116 C-8
- Q117 E-7
- Q118 D-8
- Q119 B-4
- Q120 B-5
- Q121 C-5
- Q122 B-5
- Q123 D-5
- Q124 C-5
- Q125 C-5
- Q126 B-4
- Q127 B-4
- Q128 B-4
- Q302 D-3
- Q351 F-3
- Q352 F-2
- Q353 F-3
- Q354 G-3
- Q403 E-3
- Q404 D-3
- Q452 F-2

- RV101 A-6
- RV102 A-7
- RV103 A-5
- RV104 A-6
- RV105 A-6
- RV301 A-2
- RV302 A-2
- RV303 A-2
- RV402 A-4
- RV403 A-3

- TP101 F-6
- TP102 F-7
- TP103 F-6
- TP104 C-7
- TP105 B-4
- TP106 D-5
- TP107 E-5
- TP301 D-3
- TP401 F-3
- TP402 F-4
- TP403 C-3

DA -B SIDE-
SUFFIX: -11

DA BOARD WAVEFORMS

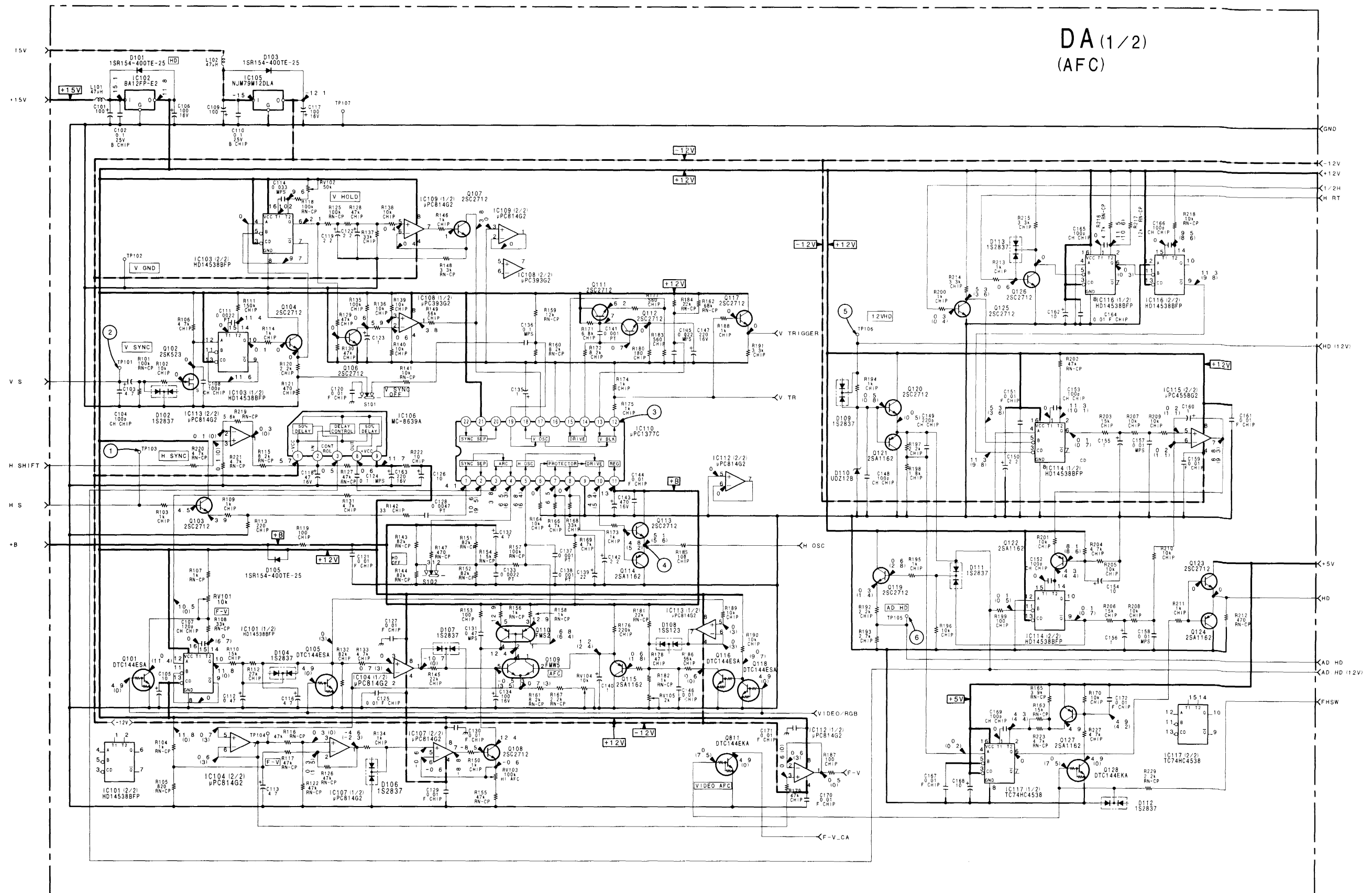


DA BORAD FUNCTIONS

REF	TYPE NAME	FUNCTION
IC101	HD14538BFP	PULSE GENERATOR
IC102	BA12FP-E2	+12VREG-1
IC103	HD14538BFP	VD GENERATOR
IC104	UPC814G2	HF AFC AMP
IC105	NJM79M12DLA	-12VREG-1
IC106	MC-8639A	H SHIFT
IC107	UPC814G2	H1 AFC BUFFER
IC108	UPC393G2	VAFC-2
IC109	UPC814G2	VAFC-1
IC110	UPC1377C	AFC
IC112	UPC814G2	F-V BUFFER
IC113	UPC814G2	VIDEO AFC BUFFER
IC114	HD14538BFP	AD HD GEN-1
IC115	UPC4558G2	AD COMPARATOR
IC116	HD14538BFP	AD HD GEN-2
IC117	TC74HC4538	HD WIDTH GEN
IC301	CXA1726AM	H PARA GEN-2
IC302	PC74HC4053D-T	H SAW SW-2
IC303	AD835AR	H PARA GEN-1
IC305	LM6361M	H SAW GEN-1
IC306	UPC814G2	H SAW GEN-2
IC307	LM6361M	H SAW BUFFER
IC308	SN74HC109	H SAW SW-1
IC309	UPC319G2	H SAW COMPARATOR
IC310	TC7S04F	1/2H BUFFER
IC311	PC74HC4053D-T	H RT CONT SW
IC312	UPC814G2	H RT BUFFER
IC313	UPC814G2	H SIN GEN-2
IC314	TC7S08F	H RT BUFFER
IC351	TL431CLP	VOLTAGE REF
IC352	UPC814G2	H SIZE BUFFER-1
IC353	BA05FP-E2	5V REG
IC354	UPC814G2	H SIZE BUFFER-2
IC355	LM2990SX	-5 REG
IC401	LM6361M	H SAW BUFFER
IC402	AD828AR	H PARA BUFFER
IC403	PC74HC4053D-T	H SIN SW
IC405	AD828AR	H SIG1GEN-1
IC406	AD835AR	H SIN GEN
IC407	UPC814G2	H SIG1GEN-2
IC451	CXA1470AS	V SIG GEN
IC452	UPC814G2	V SAW/PARA BUFFER
Q101	DTC144ESA	SW-2
Q102	2SK523	V SINC INVERTER
Q103	2SC2712	H SYNC BUFFER
Q104	2SC2712	V SYNC BUFFER
Q105	DTC144ESA	SW-1
Q106	2SC2712	V AFC SW
Q107	2SC2712	V AFC AMP
Q108	2SC2712	V-I CONVERTER-3
Q109	FMW5	V-I CONVERTER-4
Q110	FMS2	CURRENT MIRROR
Q111	2SC2712	V AMP-2
Q112	2SC2712	V AMP-2
Q113	2SC2712	H OSC BUFFER-1
Q114	2SA1162	H OSC BUFFER-2

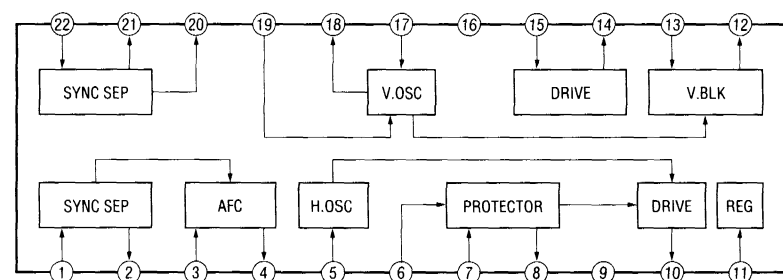
REF	TYPE NAME	FUNCTION
Q115	2SA1162	VIDEO AFC
Q116	DTC144ESA	SW-3
Q117	2SC2712	VD BUFFER
Q118	DTC144ESA	1/2H BUFFER
Q119	2SC2712	AD HD BUFFER
Q120	2SC2712	HD BUFFER-1
Q121	2SA1162	HD BUFFER-2
Q122	2SA1162	V-I CONVERTER-1
Q123	2SC2712	HD BUFFER-3
Q124	2SA1162	HD BUFFER-4
Q125	2SC2712	1/2H BUFFER
Q126	2SC2712	H RT BUFFER
Q127	2SA1162	HD WIDTH SW-1
Q128	DTC144EKA	HD WIDTH SW-2
Q301	2SC2712	1/2H BUFFER-1
Q302	2SA1162	1/2H BUFFER-2
Q351	2SC2712	-12VPROT
Q352	2SA1162	+12VPROT
Q353	2SC2712	-5VPROT
Q354	DTC144ESA	+5VPROT
Q401	FMW5	H SIG1 SW-1
Q402	FMS1A	H SIG1 SW-2
Q403	2SA1162	H SIG1 BUFFER-1
Q404	2SC2712	H SIG1 BUFFER-2
Q451	2SC2712	1/2V BUFFER
Q452	2SC2712	V TR BUFFER
Q811	DTC144EKA	FH SW BUFFER
D101	1SR154-400TE-25	REG PROTECTOR-1
D102	1S2837	V SYNC CLAMP
D103	1SR154-400TE-25	REG PROTECTOR-2
D104	1S2837	SPEED UP-2
D105	1SR154-400TE-25	H OUT PROTECTOR
D106	1S2837	LIMITER-1
D107	1S2837	SPEED UP-3
D108	1SS123	LEVEL SHIFT-1
D109	1S2837	SPEED UP-1
D110	UDZ128	LIMITER-3
D111	1S2837	AD HD SW
D112	1S2837	LIMITER-2
D113	1S2837	SPEED UP-4
D351	1SR154-400TE-25	REG PROTECTOR-3
D352	1SR154-400TE-25	REG PROTECTOR-4
D353	UDZ108	LIMITER-4
D354	UDZ3.6B	LIMITER-5
D355	UDZ5.6B	LIMITER-6
D356	1S2837	LEVEL SHIFT-2

DA (1/2) BOARD

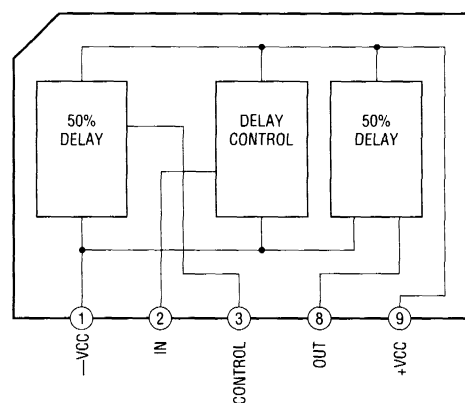


B-SX1640<AEP>-DA-1

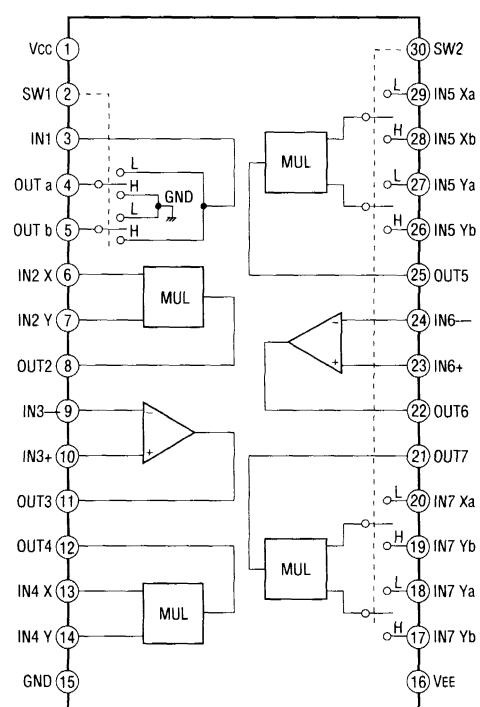
DA BOARD (1/2) IC110
UPC1377C



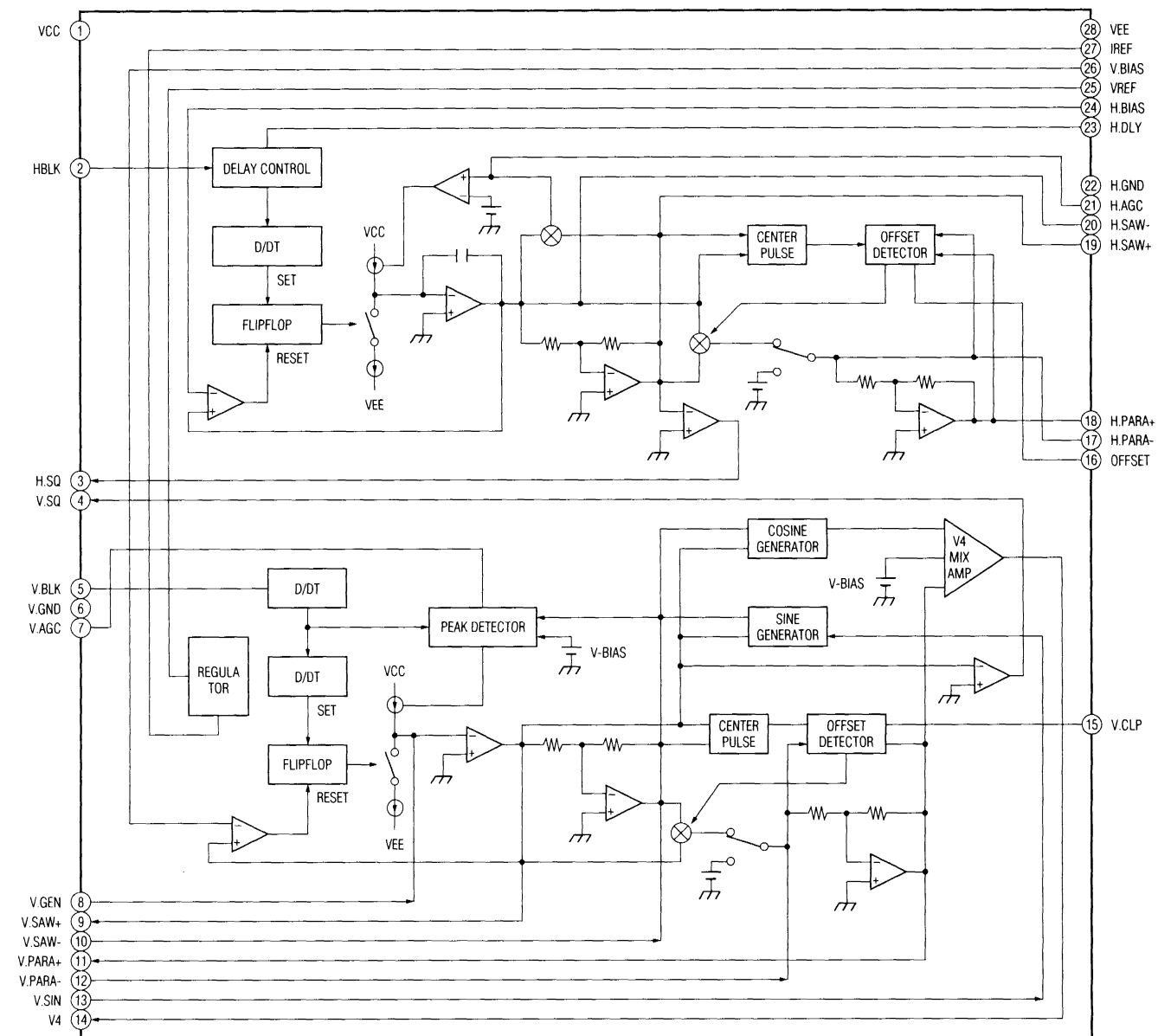
DA BOARD (1/2) IC106
MC-8369A



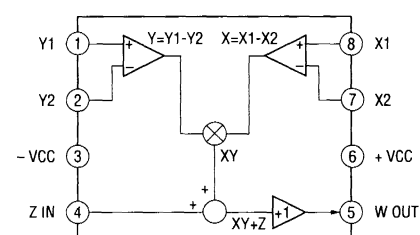
DA BOARD (2/3) IC301
CXA1726AM



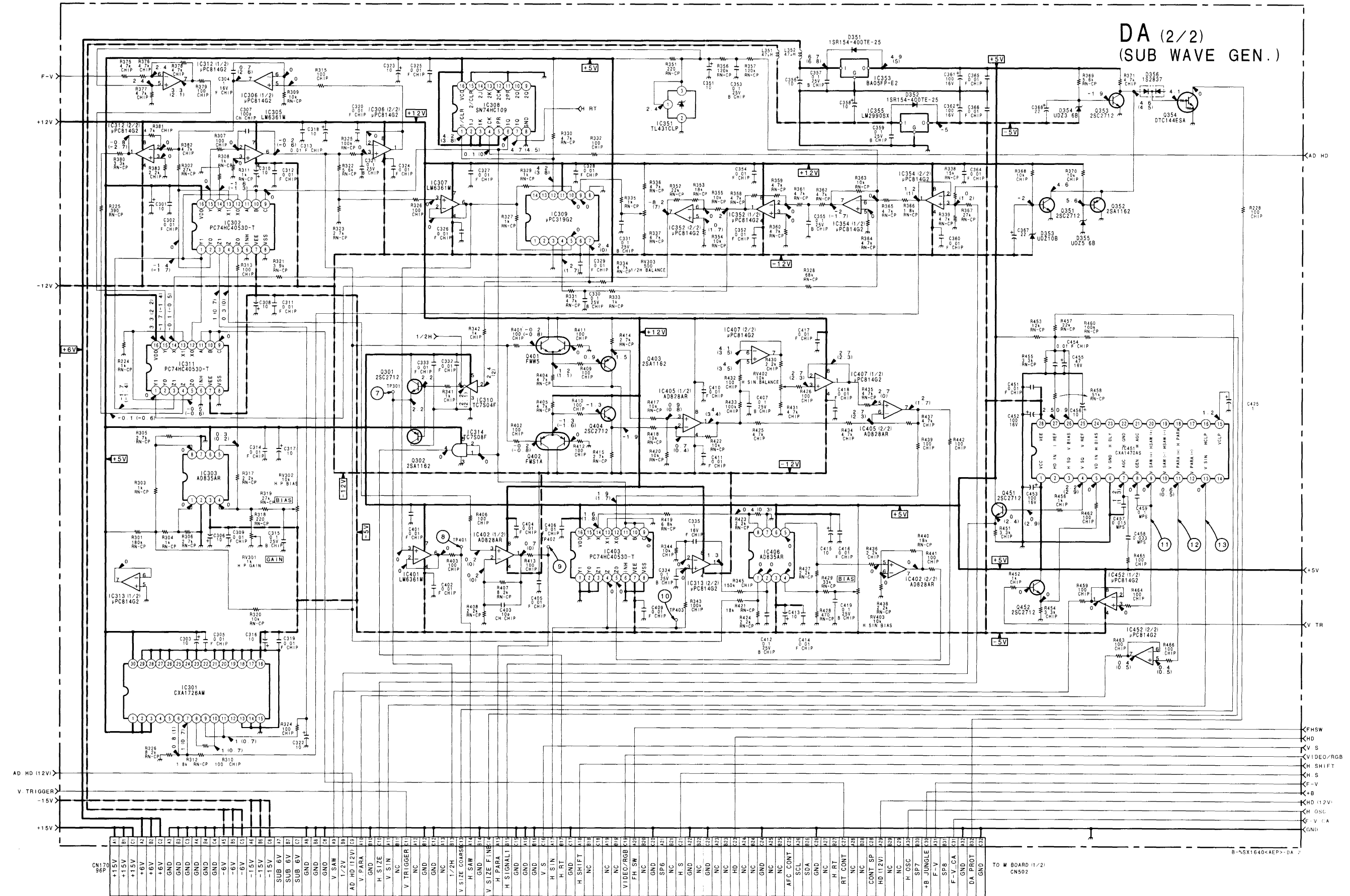
DA BOARD (2/3) IC451
CXA1470AS



DA BOARD (2/3) IC303, 406
AD835AR



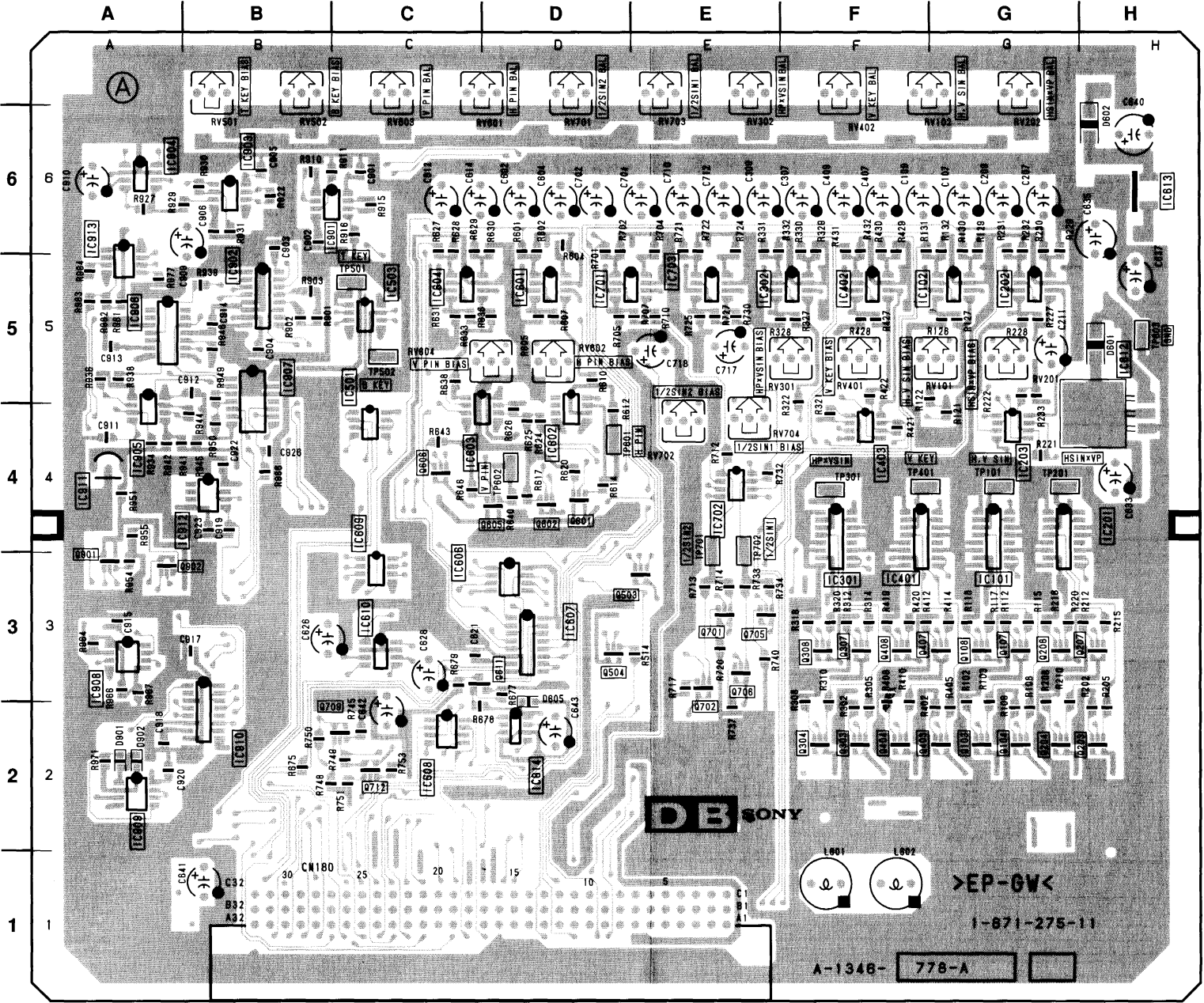
DA (2/2) BOARD



DB BOARD

DB BOARD (A SIDE)

D601	H-5	RV702	E-4
D602	H-6	RV703	E-6
D605	D-3	RV704	F-4
D901	A-2		
D902	A-2	TP101	G-4
		TP201	G-4
IC101	G-3	TP301	F-4
IC102	F-5	TP401	F-4
IC201	H-4	TP501	C-5
IC202	G-5	TP502	C-5
IC203	G-4	TP601	D-4
IC301	F-3	TP602	D-4
IC302	E-5	TP603	H-5
IC401	F-3	TP701	E-4
IC402	F-5	TP702	E-4
IC403	F-4		
IC501	C-5		
IC503	C-5		
IC601	D-5		
IC602	D-4		
IC603	C-4		
IC604	C-5		
IC606	C-3		
IC607	D-3		
IC608	C-2		
IC609	C-4		
IC610	C-3		
IC612	H-5		
IC613	H-6		
IC614	D-2		
IC701	D-5		
IC702	E-4		
IC703	E-5		
IC901	B-6		
IC902	B-5		
IC903	B-6		
IC904	A-6		
IC905	A-4		
IC906	A-5		
IC907	B-5		
IC908	A-3		
IC909	A-2		
IC910	B-2		
IC911	A-4		
IC912	B-4		
IC913	A-6		
Q103	G-2		
Q104	G-2		
Q107	G-3		
Q108	G-3		
Q203	H-2		
Q204	G-2		
Q207	H-3		
Q208	G-3		
Q303	F-2		
Q304	F-2		
Q307	F-3		
Q308	F-3		
Q403	F-2		
Q404	F-2		
Q407	F-3		
Q408	F-3		
Q503	D-3		
Q504	D-3		
Q601	D-4		
Q602	D-4		
Q605	D-4		
Q606	C-4		
Q611	D-3		
Q701	E-3		
Q702	E-2		
Q705	E-3		
Q706	E-3		
Q709	B-2		
Q712	C-2		
Q901	A-3		
Q902	B-3		
RV101	G-5		
RV102	G-6		
RV201	G-5		
RV202	G-6		
RV301	F-5		
RV302	E-6		
RV401	F-5		
RV402	F-6		
RV501	B-6		
RV502	B-6		
RV601	D-6		
RV602	D-5		
RV603	C-6		
RV604	C-5		
RV701	D-6		



DB -A SIDE-
SUFFIX: -11

DB BOARD

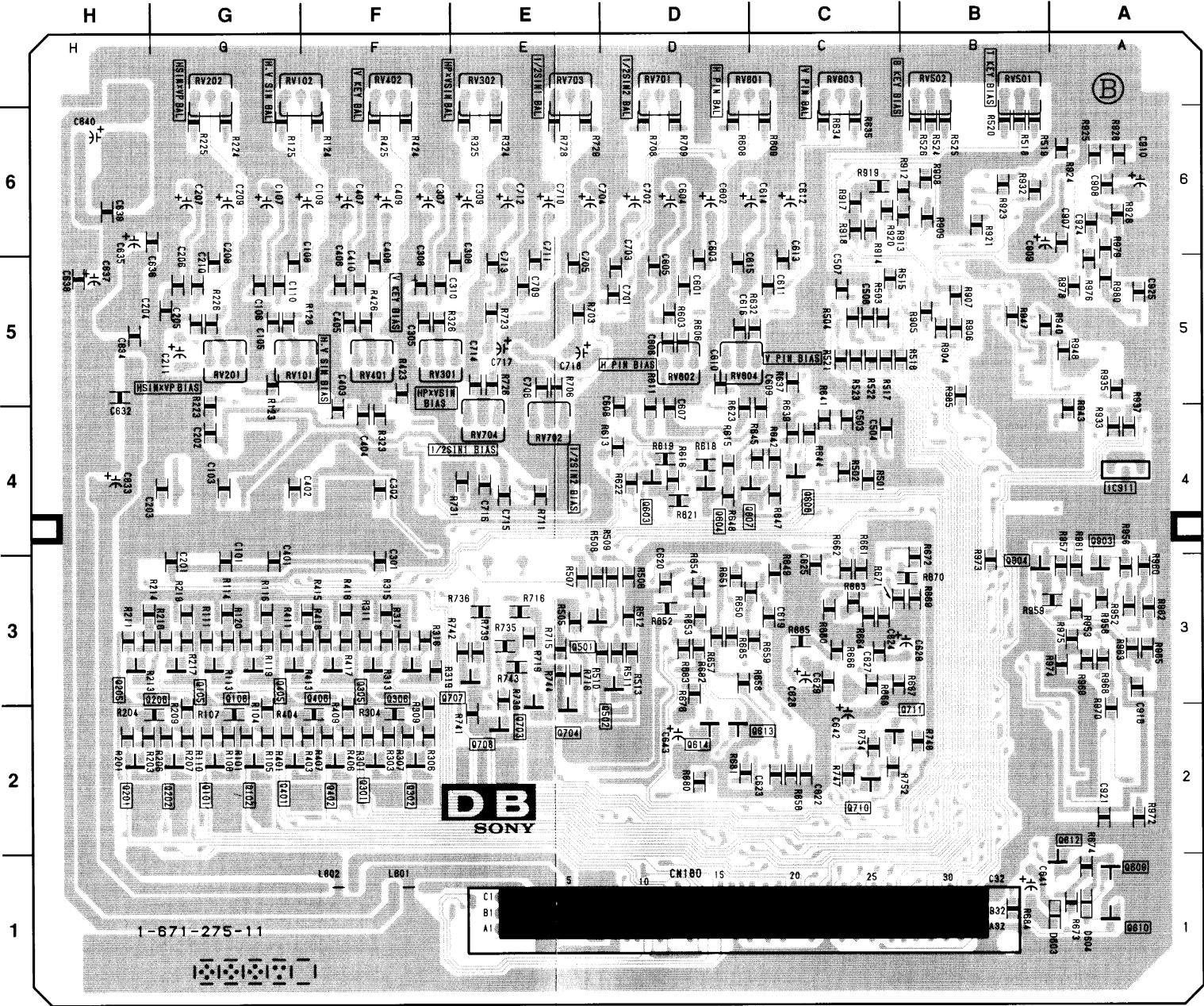
DB BOARD (B SIDE)

D604 A-1
D603 A-1

IC911 A-4

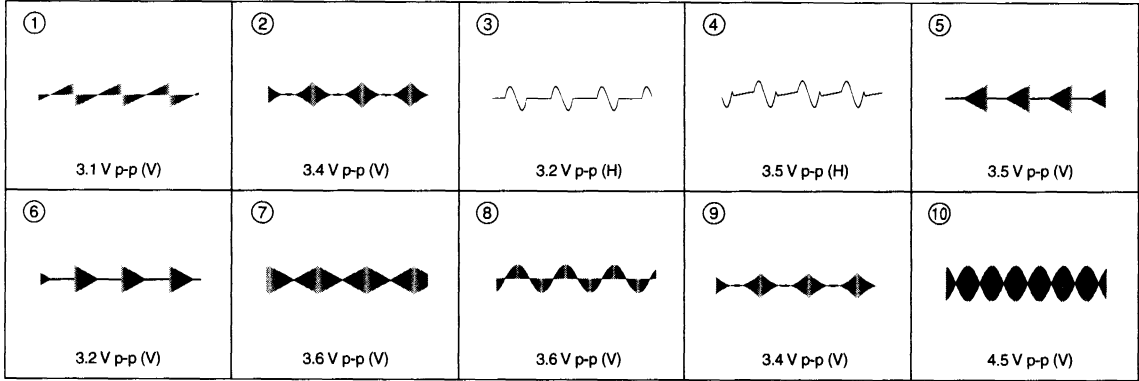
Q101 G-2
Q102 G-2
Q105 G-3
Q106 G-3
Q201 H-2
Q202 G-2
Q205 H-3
Q206 G-3
Q301 F-2
Q302 F-2
Q305 F-3
Q306 F-3
Q401 G-2
Q402 F-2
Q405 G-3
Q406 F-3
Q501 F-3
Q502 D-2
Q603 D-4
Q604 D-4
Q607 D-4
Q608 C-4
Q609 A-1
Q610 A-1
Q612 A-2
Q613 C-2
Q614 D-2
Q703 F-2
Q704 E-2
Q707 E-3
Q708 E-2
Q710 C-2
Q711 B-2
Q903 A-4
Q904 B-3

RV101 G-5
RV102 G-7
RV201 G-5
RV202 G-7
RV301 F-5
RV302 E-7
RV401 F-5
RV402 F-7
RV501 B-7
RV502 B-7
RV601 D-7
RV602 D-5
RV603 C-7
RV604 D-5
RV701 D-7
RV702 E-4
RV703 E-7
RV704 E-4



DB -B SIDE-
SUFFIX: -11

DB BOARD WAVEFORMS

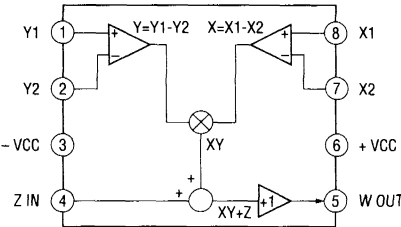


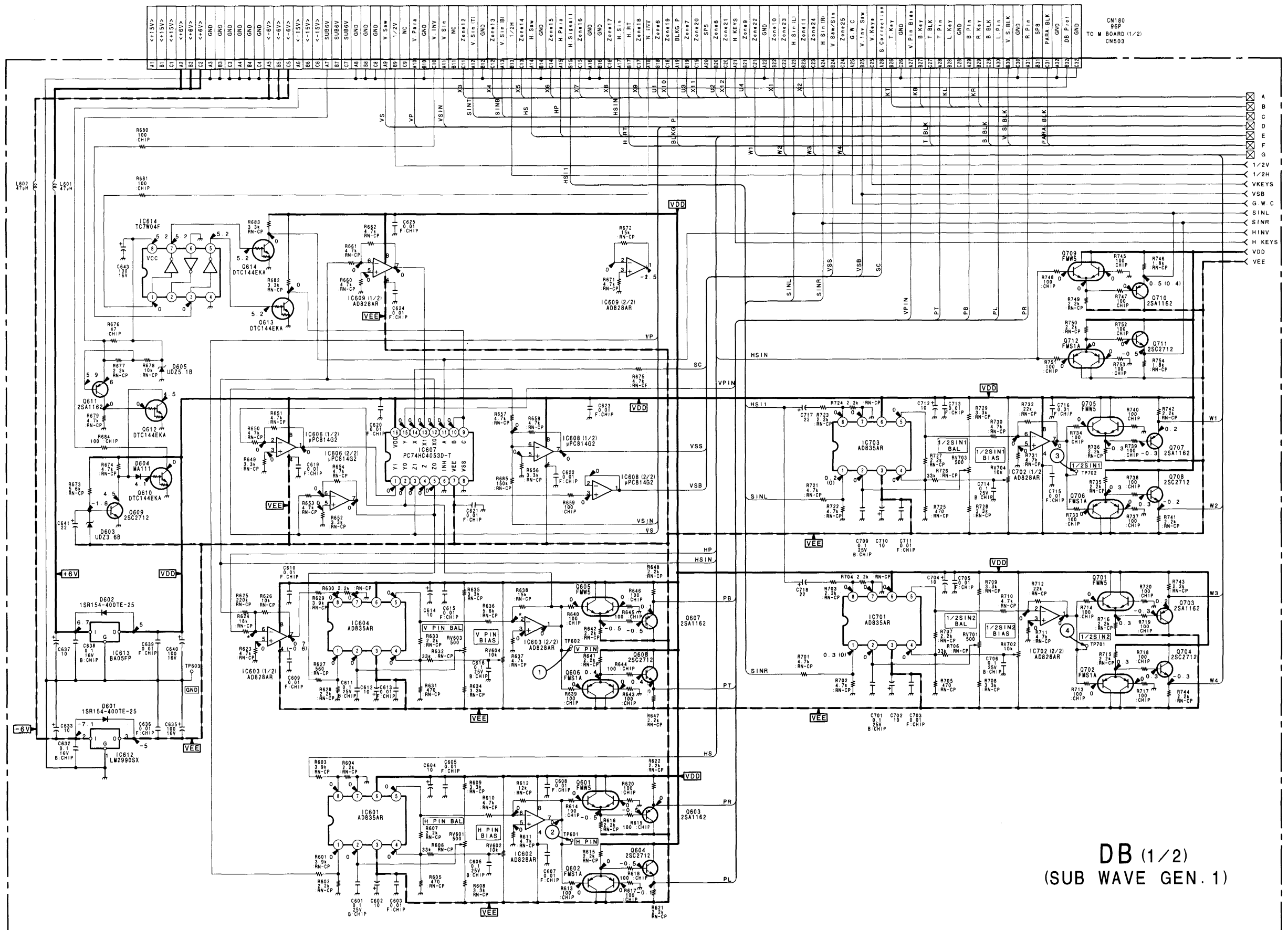
DB BORAD FUNCTIONS

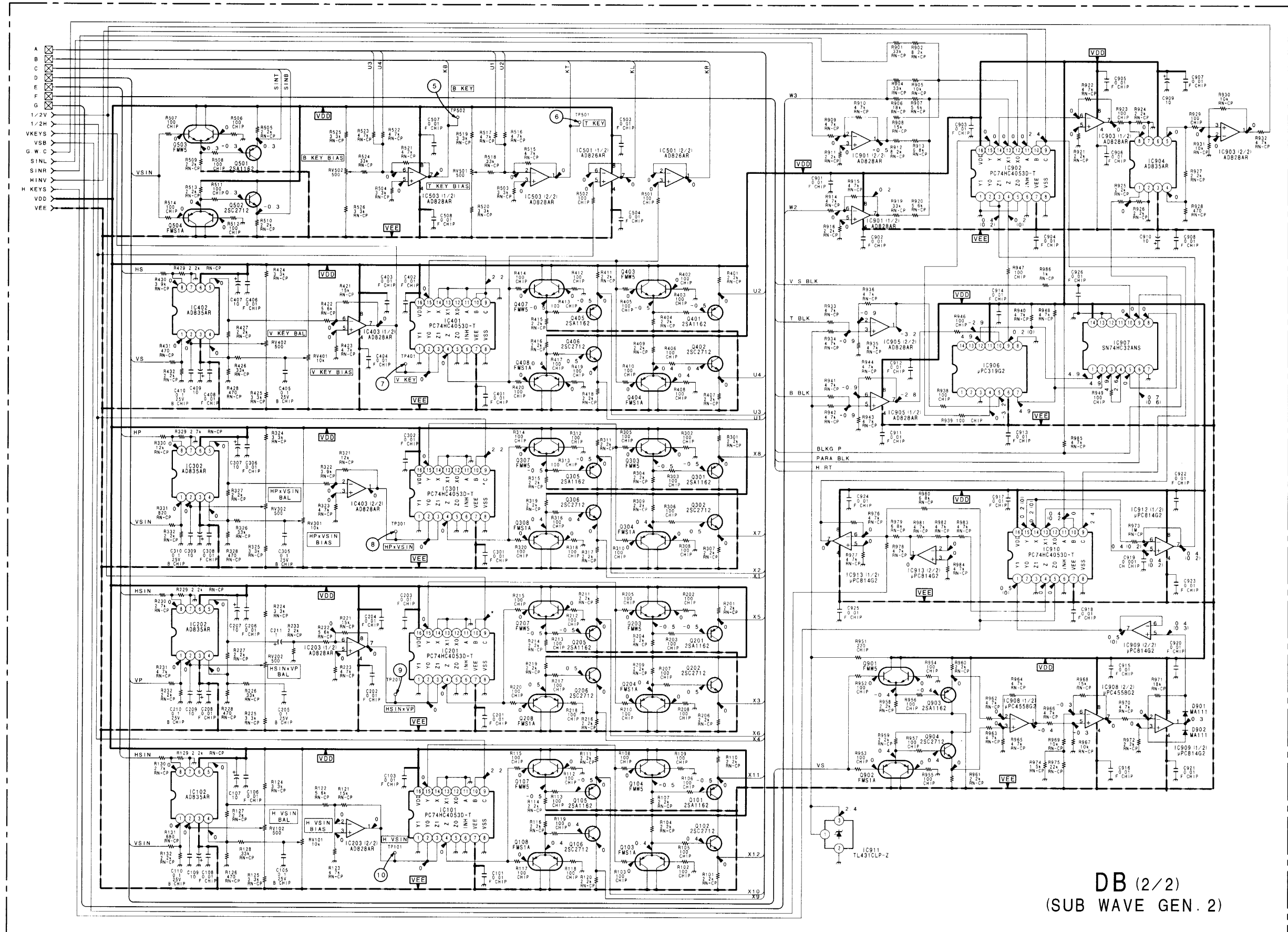
REF	TYPE NAME	FANCTION
IC101	PC74HC4053D-T	REG SW-1
IC102	AD835AR	REG MULTIPLEX-1
IC201	PC74HC4053D-T	REG SW-2
IC202	AD835AR	REG MULTIPLEX-2
IC203	AD828AR	REG BUFFER-1
IC301	PC74HC4053D-T	REG SW-3
IC302	AD835AR	REG MULTIPLEX-3
IC401	PC74HC4053D-T	REG SW-4
IC402	AD835AR	REG MULTIPLEX-4
IC403	AD828AR	REG BUFFER-2
IC501	AD826AR	KEY BUFFER
IC503	AD828AR	KEY ADDER
IC601	AD835AR	REG MULTIPLEX-5
IC602	AD828AR	REG BUFFER-3
IC603	AD828AR	REG BUFFER-4
IC604	AD835AR	REG MULTIPLEX-6
IC606	UPC814G2	INVERTER-1
IC607	PC74HC4053D-T	REG INVERT SW
IC608	UPC814G2	INVERTER-2
IC609	AD828AR	INVERTER-3
IC612	LM2990SX	-5V REG
IC613	BA05FP	+5V REG
IC614	TC7W04F	INVERT SW BUFFER
IC701	AD835AR	REG MULTIPLEX-7
IC702	AD828AR	REG BUFFER-5
IC703	AD835AR	REG MULTIPLEX-8
IC901	AD828AR	INVERTER-4
IC902	PC74HC4053D-T	REG SW-5
IC903	AD828AR	REG BUFFER-6
IC904	AD835AR	REG MULTIPLEX-9
IC905	AD828AR	C BLK ADDER
IC906	UPC319G2	C BLK COMPARATOR
IC907	SN74HC32ANS	C BLK OR
IC908	UPC4558G2	C BLK GEN-1
IC909	UPC814G2	C BLK GEN-2
IC910	PC74HC4053D-T	SAMPLE HOLD SW
IC911	TL431CLP-Z	VOLTAGE REF
IC912	UPC814G2	SAMPLE HOLD BUFFER
IC913	UPC814G2	REG GEN
Q101	2SA1162	ZONE 20 BUFFER
Q102	2SC2712	ZONE 21 BUFFER
Q103	FMS1A	ZONE 21 SW
Q104	FMW5	ZONE 20 SW
Q105	2SA1162	ZONE 19 BUFFER
Q106	2SC2712	ZONE 18 BUFFER
Q107	FMW5	ZONE 19 SW
Q108	FMS1A	ZONE 18 SW
Q201	2SA1162	ZONE 14 BUFFER
Q202	2SC2712	ZONE 12 BUFFER
Q203	FMW5	ZONE 14 SW
Q204	FMS1A	ZONE 12 SW
Q205	2SA1162	ZONE 15 BUFFER
Q206	2SC2712	ZONE 13 BUFFER
Q207	FMW5	ZONE 15 SW
Q208	FMS1A	ZONE 13 SW
Q301	2SA1162	ZONE 17 BUFFER
Q302	2SC2712	ZONE 16 BUFFER
Q303	FMW5	ZONE 17 SW
Q304	FMS1A	ZONE 16 SW
Q305	2SA1162	ZONE 11 BUFFER
Q306	2SC2712	ZONE 10 BUFFER
Q307	FMW5	ZONE 11 SW
Q308	FMS1A	ZONE 10 SW
Q401	2SA1162	ZONE 8 BUFFER
Q402	2SC2712	ZONE 9 BUFFER
Q403	FMW5	ZONE 8 SW
Q404	FMS1A	ZONE 9 SW
Q405	2SA1162	ZONE 7 BUFFER
Q406	2SC2712	ZONE 6 BUFFER

REF	TYPE NAME	FANCTION
Q407	FMW5	ZONE 7 SW
Q408	FMS1A	ZONE 6 SW
Q501	2SA1162	SIT T BUFFER
Q502	2SC2712	SIN B BUFFER
Q503	FMW5	SIN T SW
Q504	FMS1A	SIN B SW
Q601	FMW5	PIN R SW
Q602	FMS1A	PIN L SW
Q603	2SA1162	PIN R BUFFER
Q604	2SC2712	PIN L BUFFER
Q605	FMW5	PIN B SW
Q606	FMS1A	PIN T SW
Q607	2SA1162	PIN B BUFFER
Q608	2SC2712	PIN T BUFFER
Q609	2SC2712	-5V PROT-1
Q610	DTC144EKA	-5V PROT-2
Q611	2SA1162	5V PROT-1
Q612	DTC144EKA	5V PROT-2
Q613	DTC144EKA	INV SW BUFFER-1
Q614	DTC144EKA	INV SW BUFFER-2
Q701	FMW5	ZONE 24 SW
Q702	FMS1A	ZONE 25 SW
Q703	2SA1162	ZONE 24 BUFFER
Q704	2SC2712	ZONE 25 BUFFER
Q705	FMW5	ZONE 22 SW
Q706	FMS1A	ZONE 23 SW
Q707	2SA1162	ZONE 22 BUFFER
Q708	2SC2712	ZONE 23 BUFFER
Q709	FMW5	SIN L SW
Q710	2SA1162	SIN L BUFFER
Q711	2SC2712	SIN R BUFFER
Q712	FMS1A	SIN R SW
Q901	FMW5	V SAW 1 SW
Q902	FMS1A	V SAW 2 SW
Q903	2SA1162	V SAW 1 BUFFER
Q904	2SC2712	V SAW 2 BUFFER
D601	1SR154-400TE-25	REG PROTECTOR-1
D602	1SR154-400TE-25	REG PROTECTOR-2
D603	UDZ3 6B	LIMITER-1
D604	MA111	LIMITER-2
D605	UDZ5 1B	LIMITER-3
D901	MA111	V SAW RECT-1
D902	MA111	V SAW RECT-2

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DB BOARD (2/2) IC102, 202, 302, 402
AD835AR





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