

KV-14M1/14T1

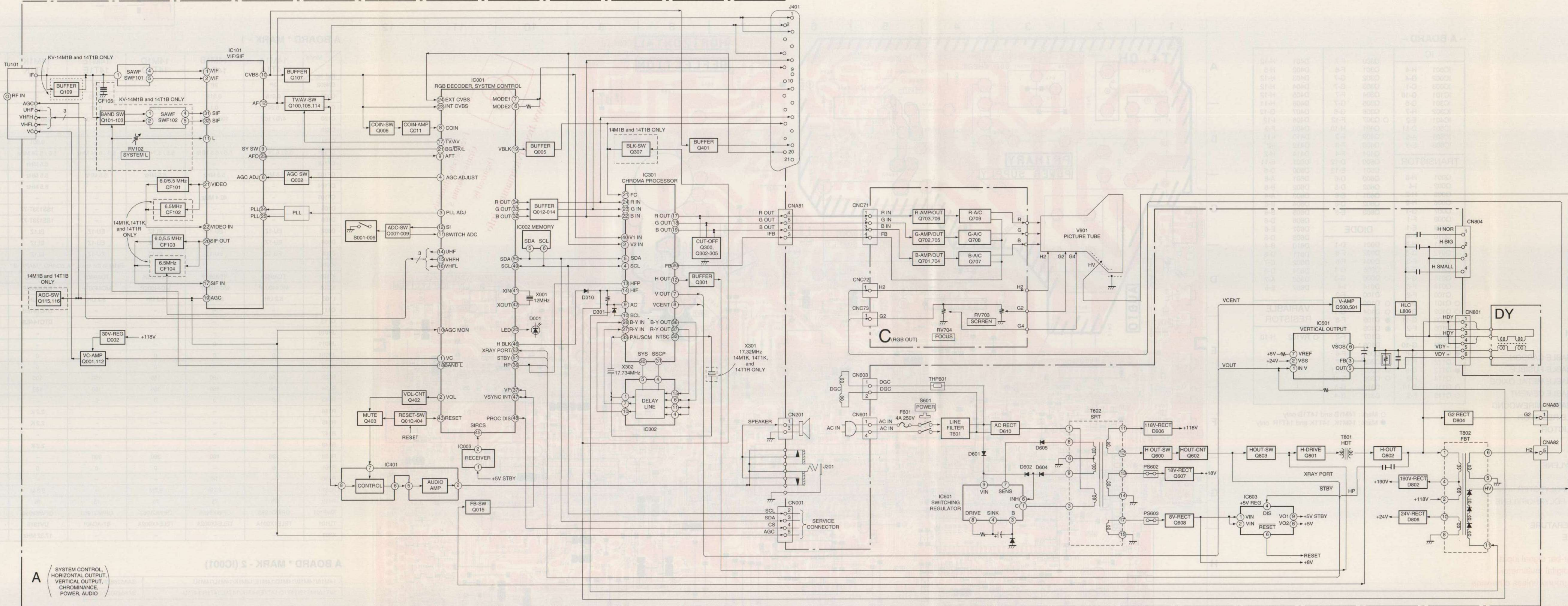
KV-14M1/14T1

KV-14M1/14T1

KV-14M1/14T1

SECTION 5  
DIAGRAMS

5-1. BLOCK DIAGRAM

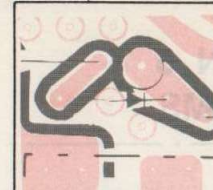




A

SYSTEM CONTROL, HORIZONTAL OUTPUT,  
VERTICAL OUTPUT, CHROMINANCE,  
POWER, AUDIO

— A BOARD —



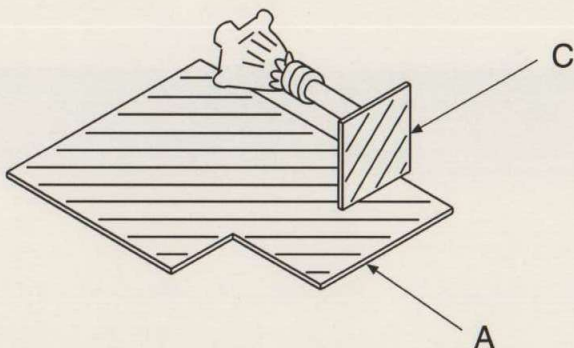
NOTE:  
The circuit indicated as left contains high voltage of over  
600 Vp-p. Care must be paid to prevent an electric shock in  
inspection or repairing.

## 5-2. CIRCUIT BOARDS LOCATION

Free service manuals  
Gratis schema's

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## 5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

### Note :

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{F}$   
50WV or less are not indicated except for electrolytic and  
tantalums.
- All resistors are in ohms.  
 $\text{k}\Omega = 1000\Omega$ ,  $\text{M}\Omega = 1000\text{k}\Omega$
- Indication of resistance, which does not have one for rating  
electrical power, is as follows.

Pitch : 5 mm  
Rating electrical power  $\frac{1}{4}\text{W}$

- : nonflammable resistor.
- : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve  
B, unless otherwise noted.
- : earth - ground.
- : earth - chassis.
- : no mounted.

### Reference information

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

- Readings are taken with a colour-bar signal input.
- Readings are taken with 10M $\Omega$  digital multimeter.
- Voltages are dc with respect to ground unless otherwise  
noted.
- Voltage variations may be noted due to normal production  
tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
- : B+ bus.
- : signal path. (RF)

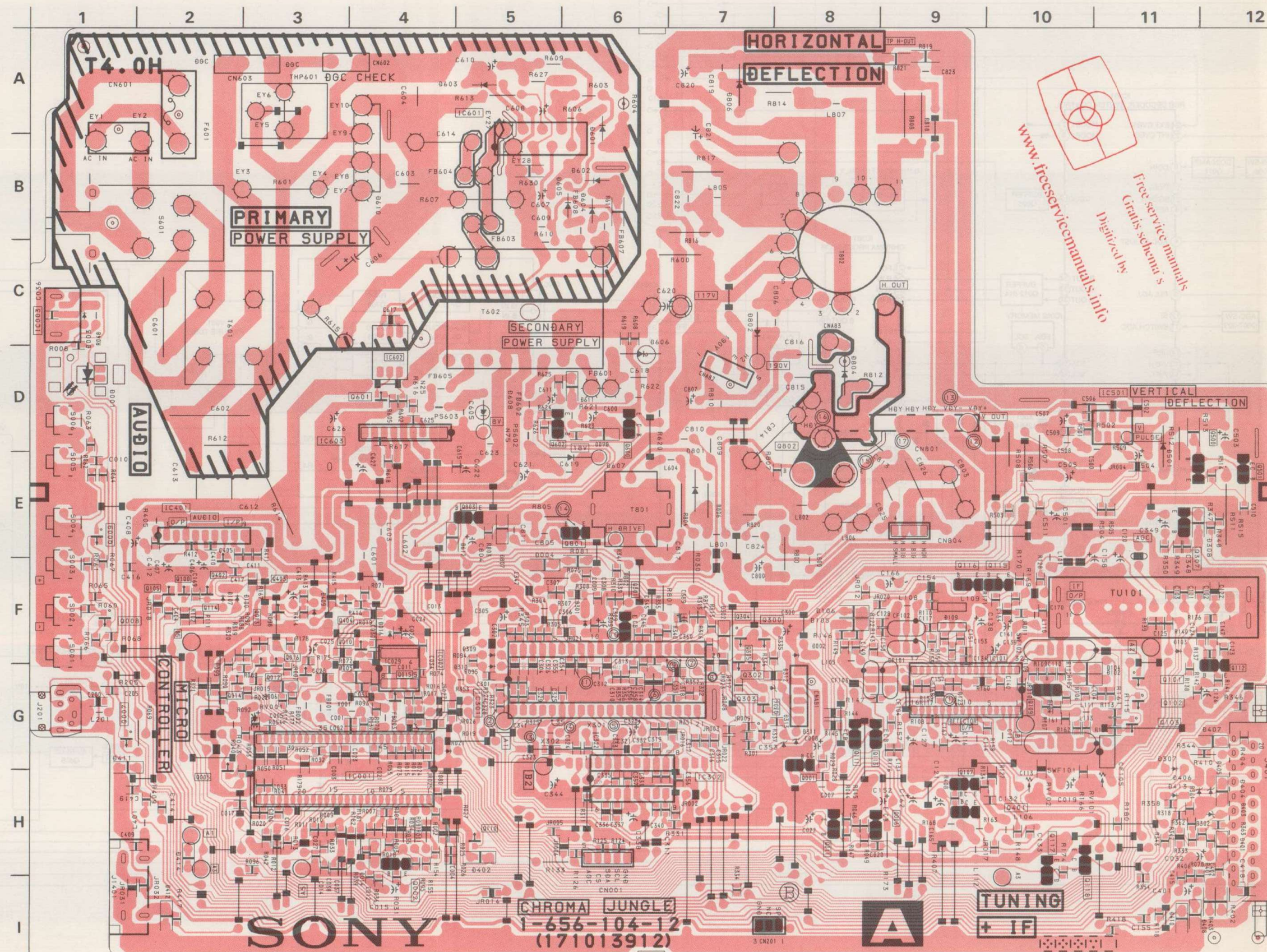
Note : The components identified by shading and marked  
▲ are critical for safety. Replace only with the  
part number specified.

Note : Les composants identifiés par une trame et une  
marque ▲ sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le  
numéro spécifié.

## — A BOARD —

IC					
IC001	H-4	Q301	F-6	D401	H-12
IC002	G-4	Q302	G-7	D402	H-5
IC003	C-1	Q303	G-7	D403	H-12
IC101	G-10	Q304	F-7	D404	H-12
IC301	G-5	Q305	G-7	D405	H-12
IC302	H-7	Q306	G-8	D406	H-11
IC401	E-2	○ Q307	F-12	D407	G-12
IC501	D-11	○ Q401	H-10	D408	I-12
IC601	A-5	Q402	F-2	D409	F-3
IC603	E-3	Q403	F-3	D410	I-11
		Q404	F-4	D412	I-2
		Q500	D-12	D414	H-2
TRANSISTOR		Q501	E-12	D501	E-11
Q001	H-8	Q600	D-6	D600	D-6
Q002	I-4	Q602	D-5	D601	A-6
Q005	H-2	Q801	E-6	D602	B-6
Q006	H-9	Q802	D-8	D603	A-4
Q007	G-1	Q803	E-5	D604	B-6
Q008	F-1			D605	B-6
Q009	E-1	DIODE		D606	D-6
Q010	F-4	D001	D-1	D607	E-6
Q011	H-8	D002	F-8	D608	D-5
Q012	G-3	D004	F-5	D610	B-4
Q013	F-3	D005	G-4	D611	D-6
Q014	G-2	D006	G-3	D802	C-7
Q015	G-4	D014	I-4	D804	D-8
Q016	F-3	D100	F-3	D806	A-7
Q100	F-2	○ D102	G-11	D807	E-5
○ Q101	G-11	○ D104	G-11	VARIABLE RESISTOR	
○ Q102	G-11	● D105	F-8	○ RV102	H-10
○ Q103	G-11	● D106	F-8		
Q105	F-2	D107	F-2		
Q107	H-9	D109	F-9		
○ Q109	G-10	D301	F-6		
● Q111	G-8	D302	F-7		
Q112	F-12	○ D307	G-11		
● Q113	G-9	○ D308	E-12		
Q114	F-2	D310	G-5		
○ Q115	F-10	D315	G-4		
○ Q116	F-9				

○ Mark : 14M1B and 14T1B only  
● Mark : 14M1K, 14T1K and 14T1R only



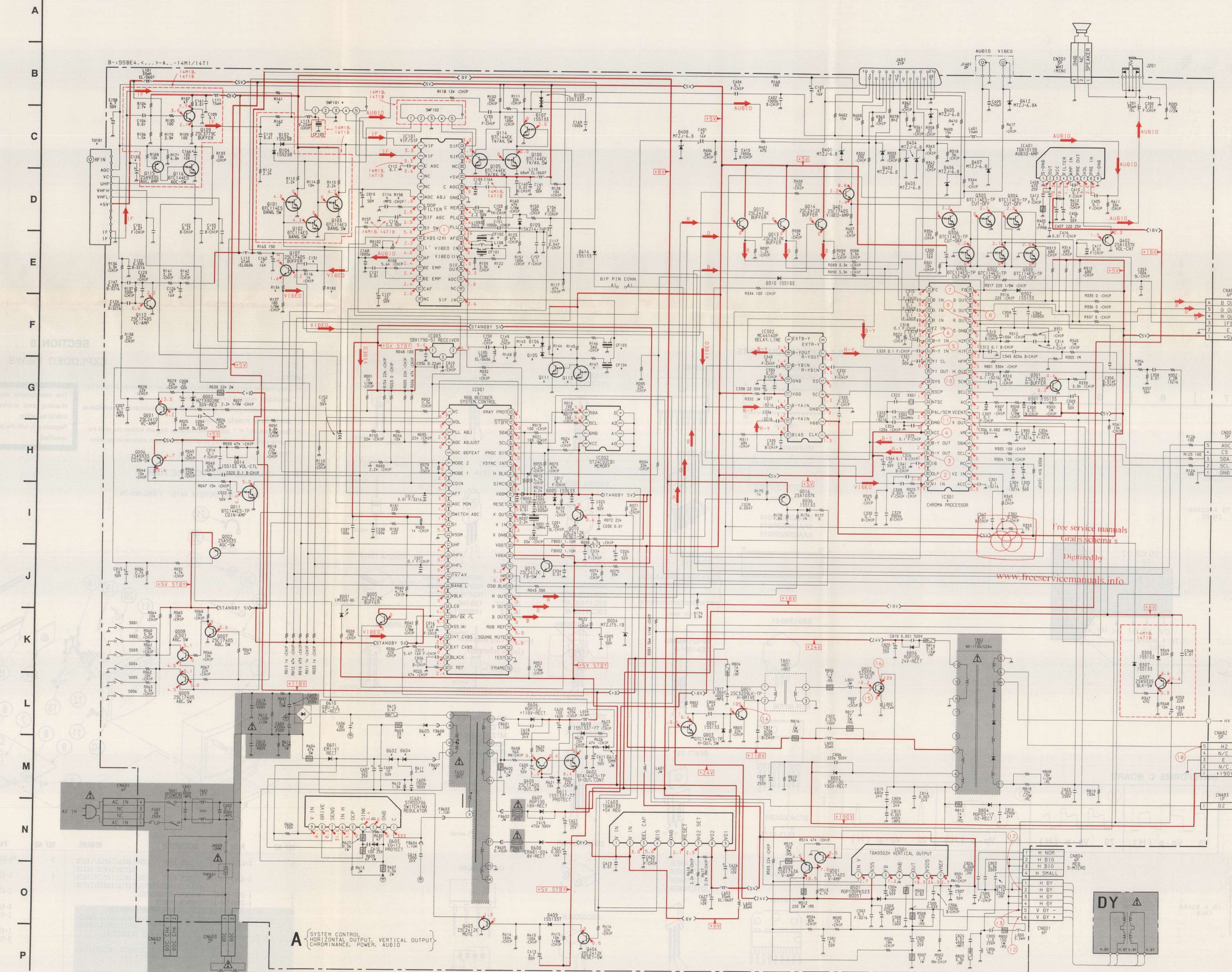
## A BOARD \* MARK - 1

Model	14M1A 14T1A	14M1B 14T1B	14M1D 14T1D	14M1E 14T1E	14M1K 14T1K	14M1L 14T1L	14T1R	14M1U 14T1U
Ref. No.								
CN602	2P	2P	—	2P	—	—	—	—
C009	0.015	0.015	—	0.015	—	—	—	—
C114	0.22	0.1	0.22	0.22	0.22	0.22	0.22	0.22
C120	470 / 10V	1000 / 10V	470 / 10V	220 / 10V	220 / 10V	220 / 10V	470 / 10V	220 / 10V
C322	—	—	—	—	18P	—	18P	—
C131	—	—	—	—	0.001	—	0.001	—
CF101	5.5 / 5.74 MHz	5.5 / 6.5 MHz	5.5 / 5.74 MHz	5.5 / 5.74 MHz	5.5 / 5.74 MHz	6.0 / 6.5 MHz	6.0 / 6.5 MHz	6.0 / 6.5 MHz
CF102	—	—	—	—	6.5 MHz	—	—	—
CF103	5.5 MHz	5.5 MHz	5.5 MHz	5.5 MHz	5.5 MHz	6.0 MHz	6.0 MHz	6.0 MHz
CF104	—	—	—	—	6.5 MHz	—	6.5 MHz	—
CF105	—	40.4 MHz	—	—	—	—	—	40.4 MHz
D105	—	—	—	—	1SS133T-77	—	1SS133T-77	—
D106	—	—	—	—	1SS133T-77	—	1SS133T-77	—
D602	EU-1Z	EU-1Z	EL1Z	EU-1Z	EL1Z	EL1Z	EL1Z	EL1Z
D604	EU-1Z	EU-1Z	EL1Z	EU-1Z	EL1Z	EL1Z	EL1Z	EL1Z
D605	EU-1Z	EU-1Z	EL1Z	EU-1Z	EL1Z	EL1Z	EL1Z	EL1Z
IC001	Refer to the table, "A BOARD * MARK -2"							
IC101	TDA9806	TDA9812	TDA9806	TDA9806	TDA9806	TDA9806	TDA9806	TDA9806
IC301	MC44007P	MC44002P	MC44002P	MC44007P	MC44002P	MC44007P	MC44002P	MC44007P
L108	8.2 UH	8.2 UH	8.2 UH	8.2 UH	4.7 UH	8.2 UH	4.7 UH	8.2 UH
Q111	—	—	—	—	DTC144ES	—	DTC144ES	—
Q113	—	—	—	—	DTC144ES	—	DTC144ES	—
JR010	—	—	—	—	—	—	0	—
JR011	—	0	—	—	—	—	—	—
JR031	0	0	0	0	0	0	—	0
R003	—	—	0	—	0	0	0	0
R122	150	150	150	150	100	150	100	150
R134	180	180	180	180	180	150	180	150
R143	0	0	0	0	—	0	—	0
R144	—	—	—	—	2.2 K	—	2.2 K	—
R145	—	—	—	—	2.2 K	—	2.2 K	—
R147	—	—	—	—	—	—	560	—
R149	—	—	—	—	2.2 K	—	—	—
R158	390	180	390	390	—	390	390	—
R161	0	—	0	0	0	0	0	0
R180	—	1K	—	—	—	—	—	—
R351	—	8.2M	8.2M	—	8.2 M	—	8.2 M	—
R410	75	75	75	75	68	75	68	—
SWF101	OPWG1963	OPWK3953	OPWG1963	OPWG1963	OPWK2950	OPWJ1952M	OPWK2950	OPWJ1952M
TU101	TELE1X001A	TELE4X002A	TELE4X002A	BT-AC401	UV1315	UV1315	TELE1X001A	BT-AU601
X301	—	—	—	—	17.32 MHz	—	17.32 MHz	—

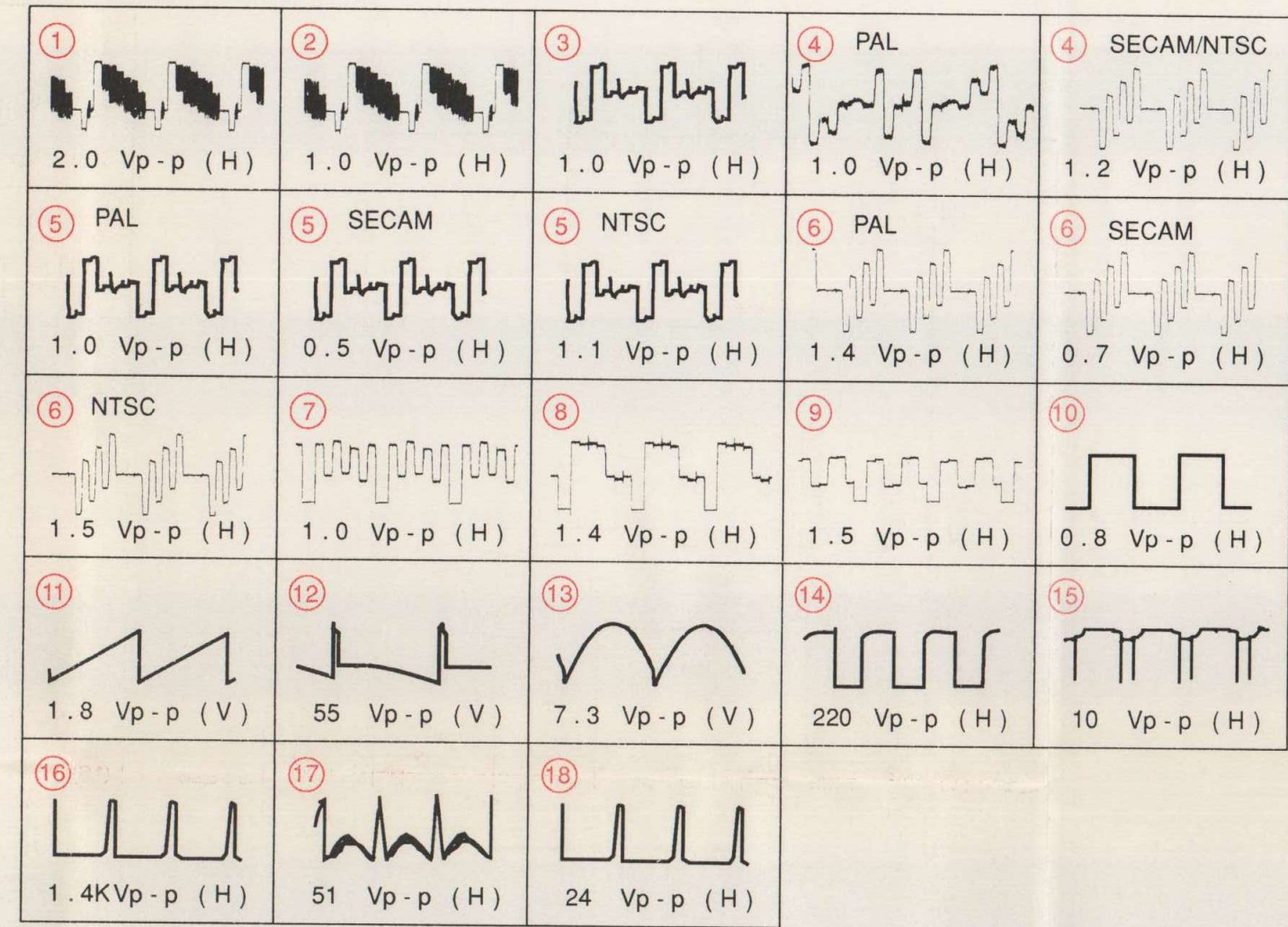
## A BOARD \* MARK - 2 (IC001)

14M1A/14M1B/14M1D/14M1E/14M1K/14M1L/14M1U	SAA5288ZP/014
14T1A/14T1B/14T1D/14T1E/14T1K/14T1L/14T1R/14T1U	SAA5290ZP/015

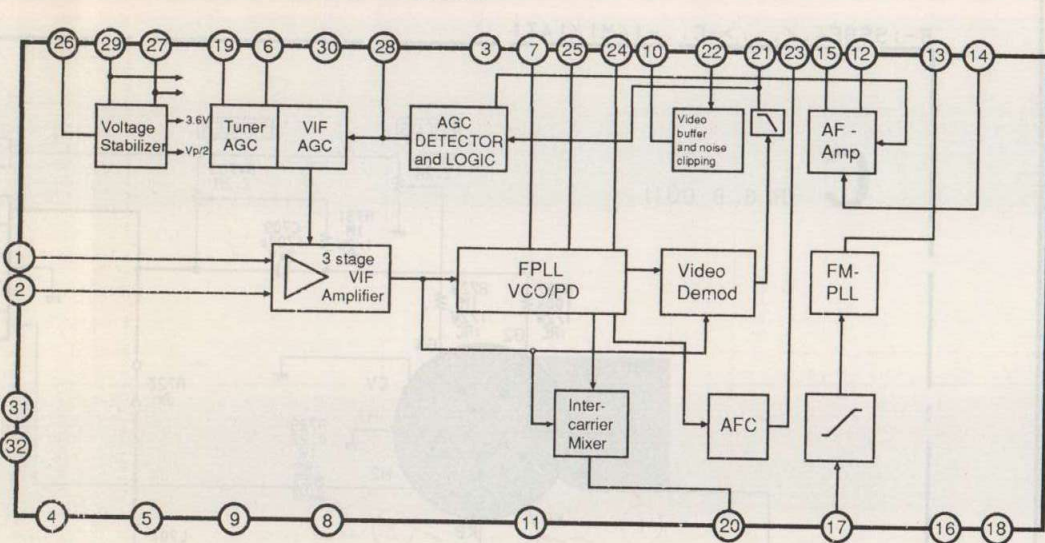




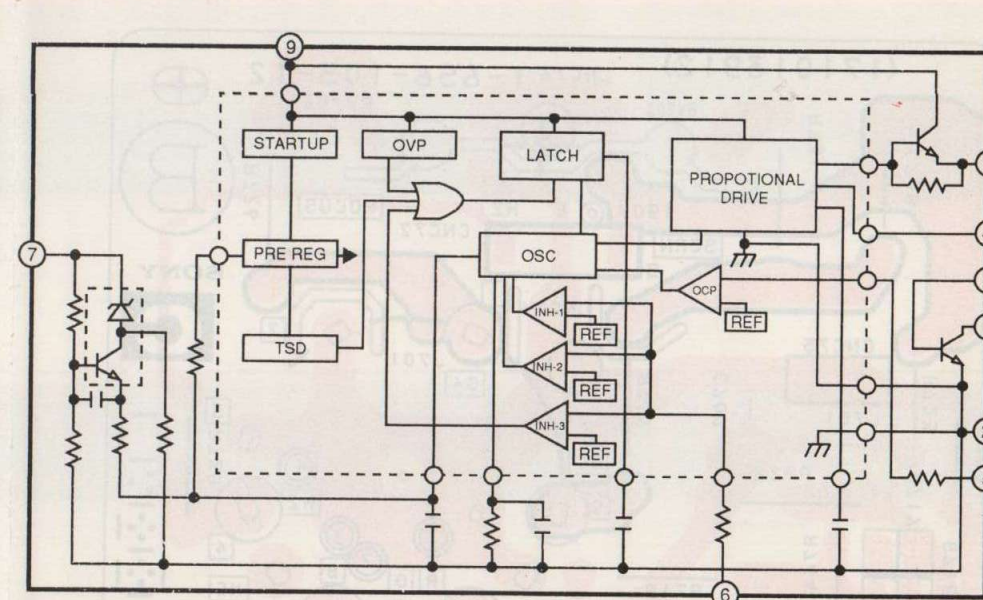
## WAVEFORMS A BOARD



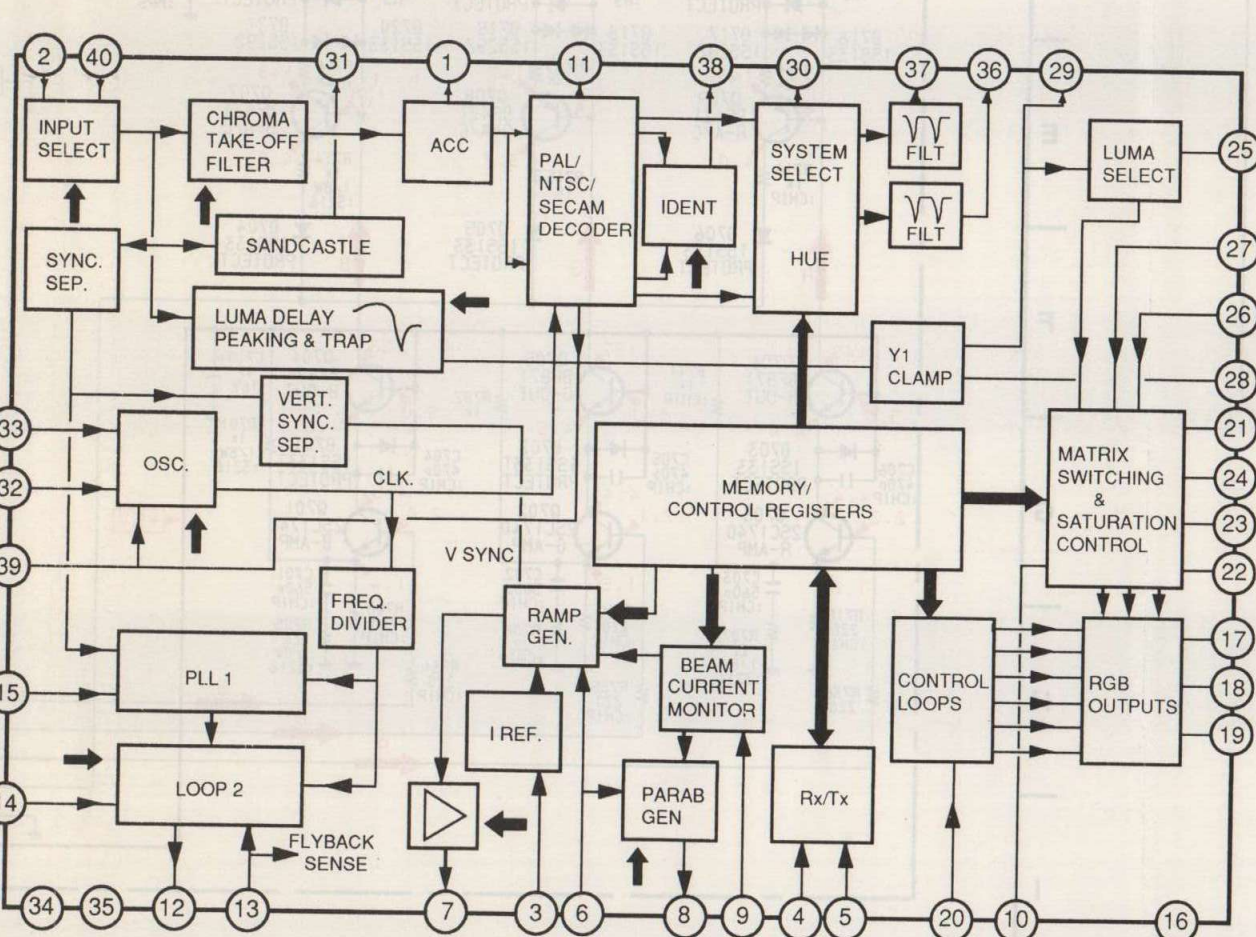
## A BOARD IC101 TDA9806/TDA9812



## A BOARD IC601 STRS5706



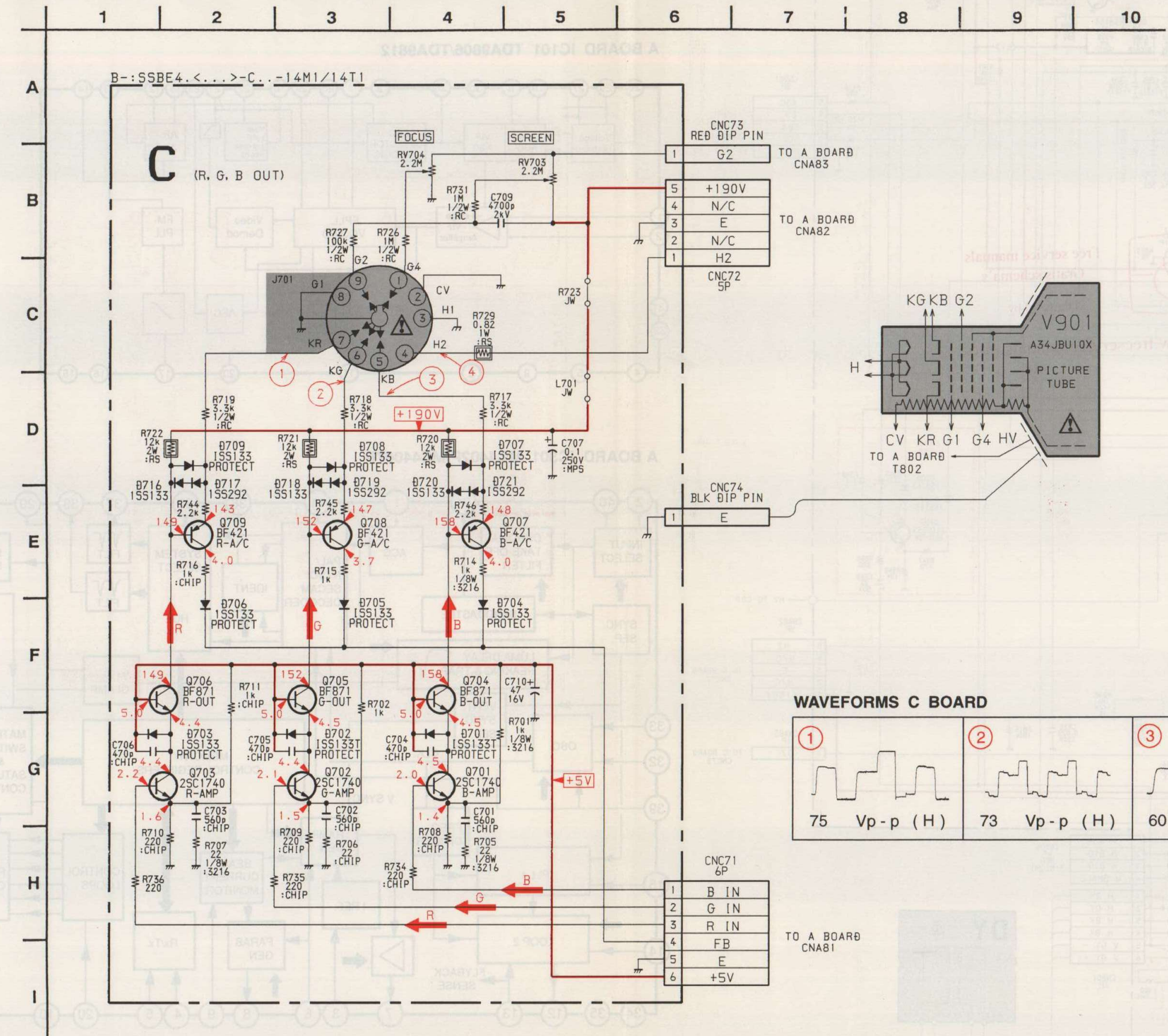
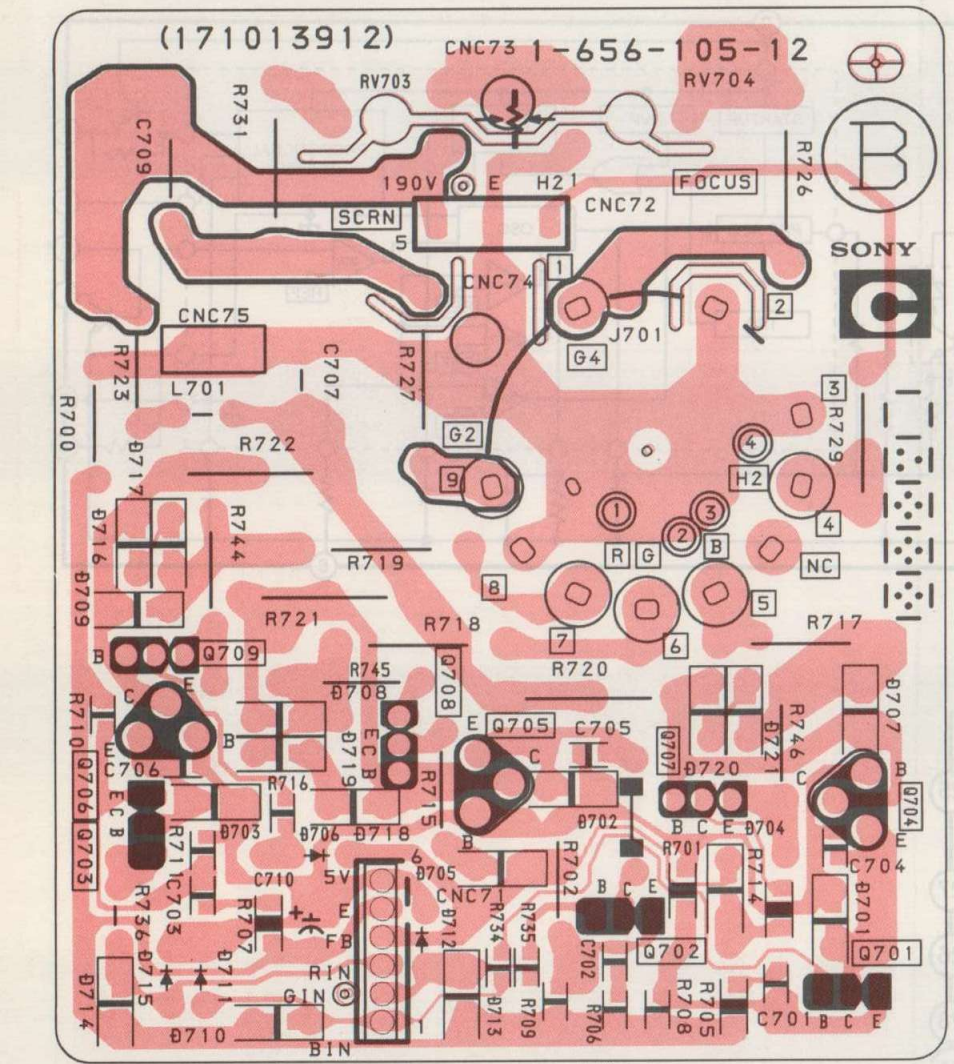
## A BOARD IC301 MC4402P/MC44007P



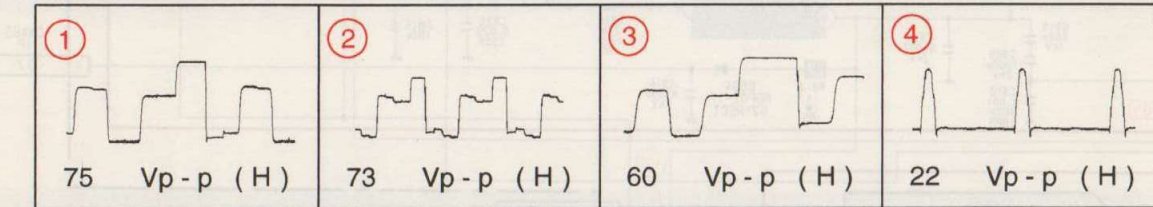


C [R.G.B OUT]

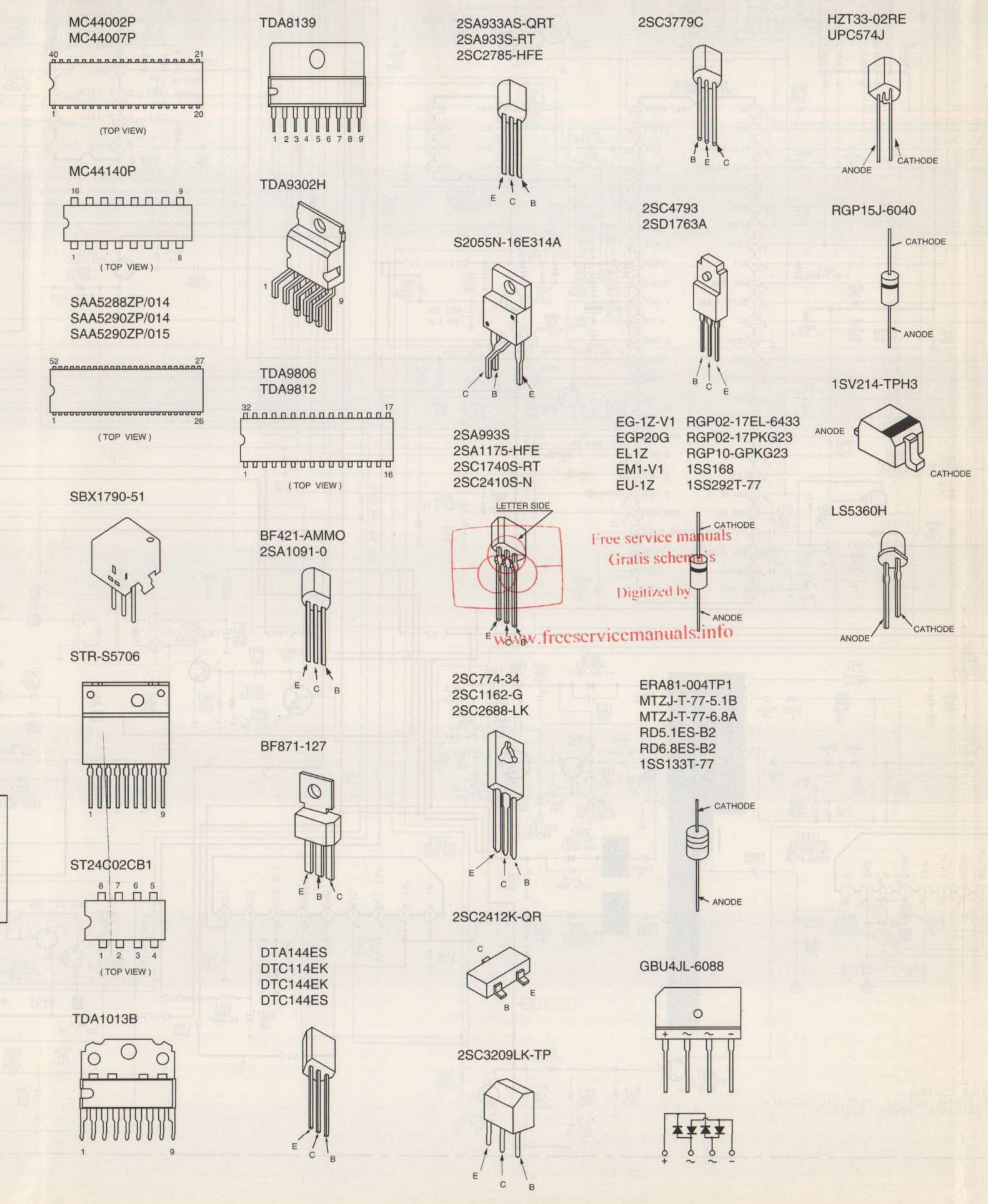
C BOARD



WAVEFORMS C BOARD



5-4. SEMICONDUCTORS



SECTION 6

EXPLODED VIEWS

NOTE :

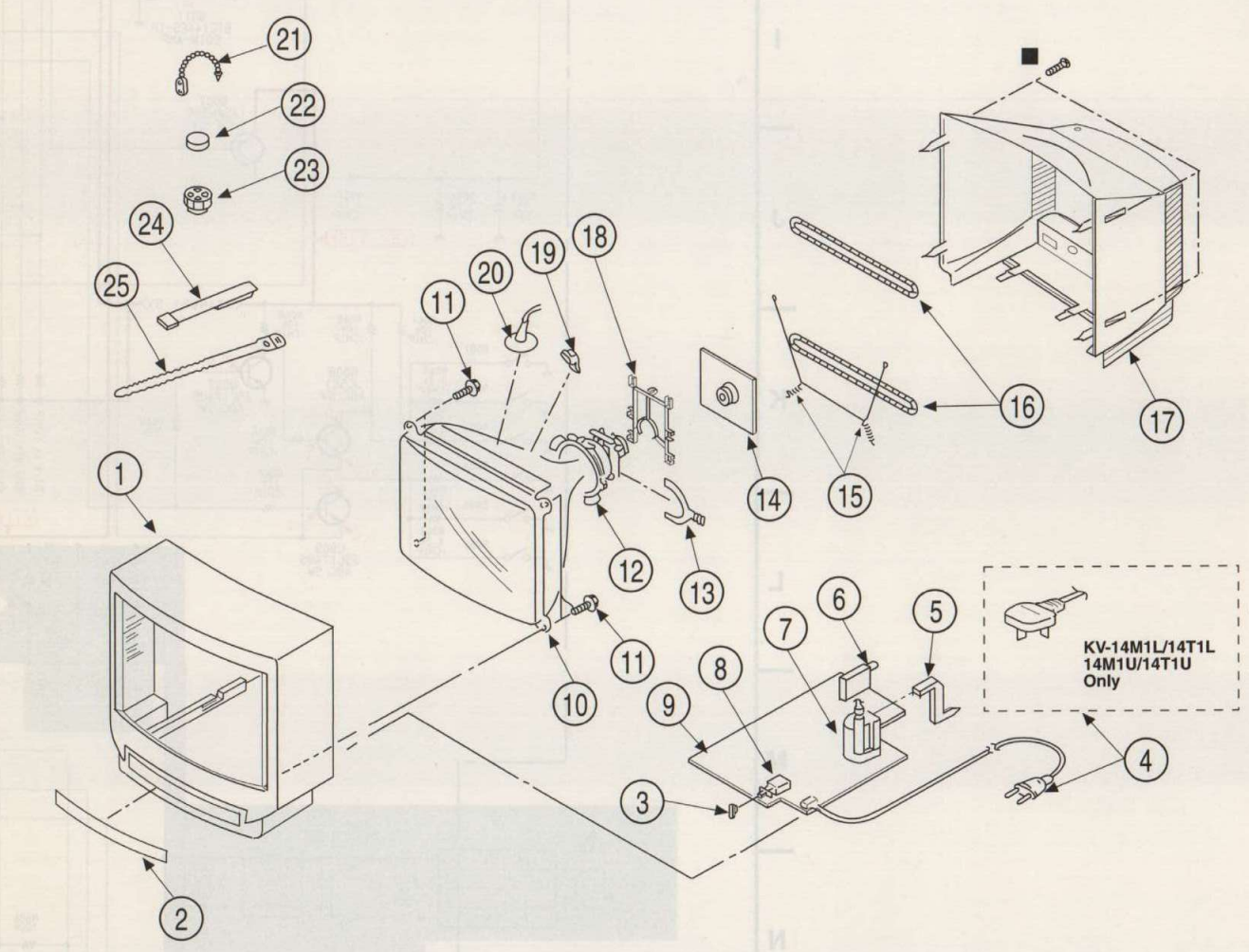
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and marked are critical for safety. Replace only with the part number specified.

Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. CHASSIS AND PICTURE TUBE

■ : +BVTP SCREW 4x16 7-685-663-79



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1	X-4200-248-2	BEZNET ASSY (KV-14M1D/14T1A/14M1B/14T1K/14M1L/14T1L/14T1R/14M1U/14T1U)		5	*4-203-084-01	BRACKET, FBT (KV-14M1D/14T1D/14M1K/14T1K/14M1L/14T1L/14T1R/14M1U/14T1U)	
	X-4200-248-1	BEZNET ASSY (KV-14M1D/14T1D/14M1K/14T1K/14M1L/14T1L/14T1R/14M1U/14T1U)		6	1-693-303-11	TUNER (TELEIX001A) (KV-14M1A/14T1A/14T1R)	
2	4-203-319-11	WINDOW, ORNAMENTAL			1-693-310-11	TUNER (TELE4X002A) (KV-14M1B/14T1B/14M1D/14T1D)	
3	4-203-320-11	BUTTON, POWER			8-598-331-00	TUNER (BT-AC401) (KV-14M1B/14T1B)	
4	1-690-270-11	CORD, POWER (WITH CONNECTOR) 2.5A/250V (KV-14M1A/14T1A/14M1B/14T1B/14M1L/14T1L/14T1R/14M1U/14T1U)			1-693-302-11	TUNER (U1315) (KV-14M1K/14T1K/14M1L/14T1L)	
	1-590-460-11	CORD, POWER (WITH CONNECTOR) 7.0A/250V (KV-14M1D/14T1D/14M1K/14T1K/14T1R/14T1L/14M1U/14T1U)			1-693-301-11	TUNER (U1343) (KV-14M1U)	
	1-590-762-11	CORD, POWER (WITH PLUG) 2.5A/250V (KV-14M1L/14T1L/14M1U/14T1U)			8-598-333-00	TUNER (BT-AU601) (KV-14T1U)	