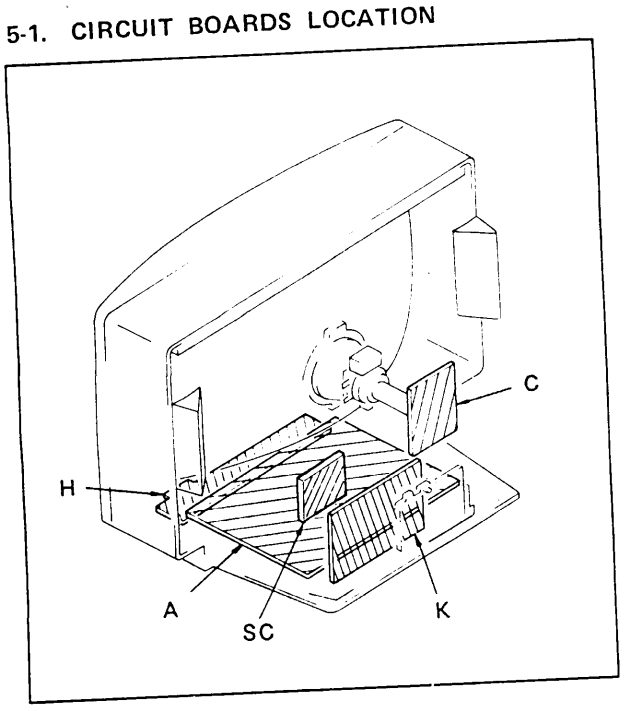
SECTION 5
DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



Note:

- All capacitors are in μF unless otherwise noted. 50WV or less are not indicated except for electrolytics. p : μμF
- Indication of resistance, which does not have one for rating electrical power is as follows.

  Pitch: 5mm, Rating electrical power: 1/4W

  kΩ : 1000Ω, MΩ : 1000kΩ
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation.
- : adjustment for repair.
- : B+ bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10 MΩ digital multimeter.
- Voltage variations may be noted due to normal production tolerances.
- Readings are taken with a color-bar-signal input.

  no mark : with PAL color-bar signal received.

  ( ) : with NTSC color-bar signal received

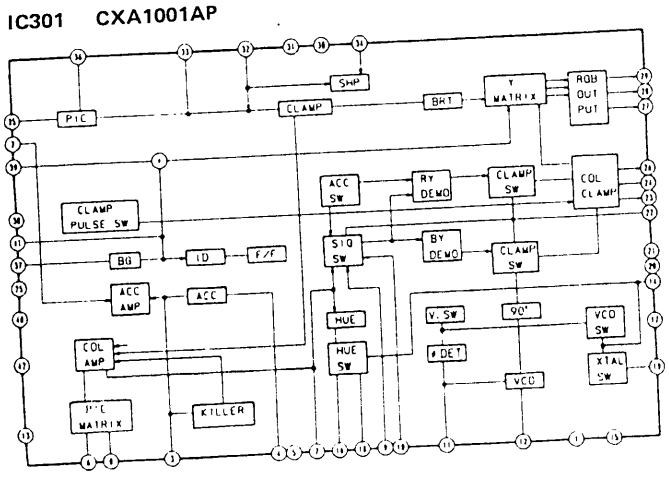
  < > : with SECAM color-bar signal received
- : Signal path.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

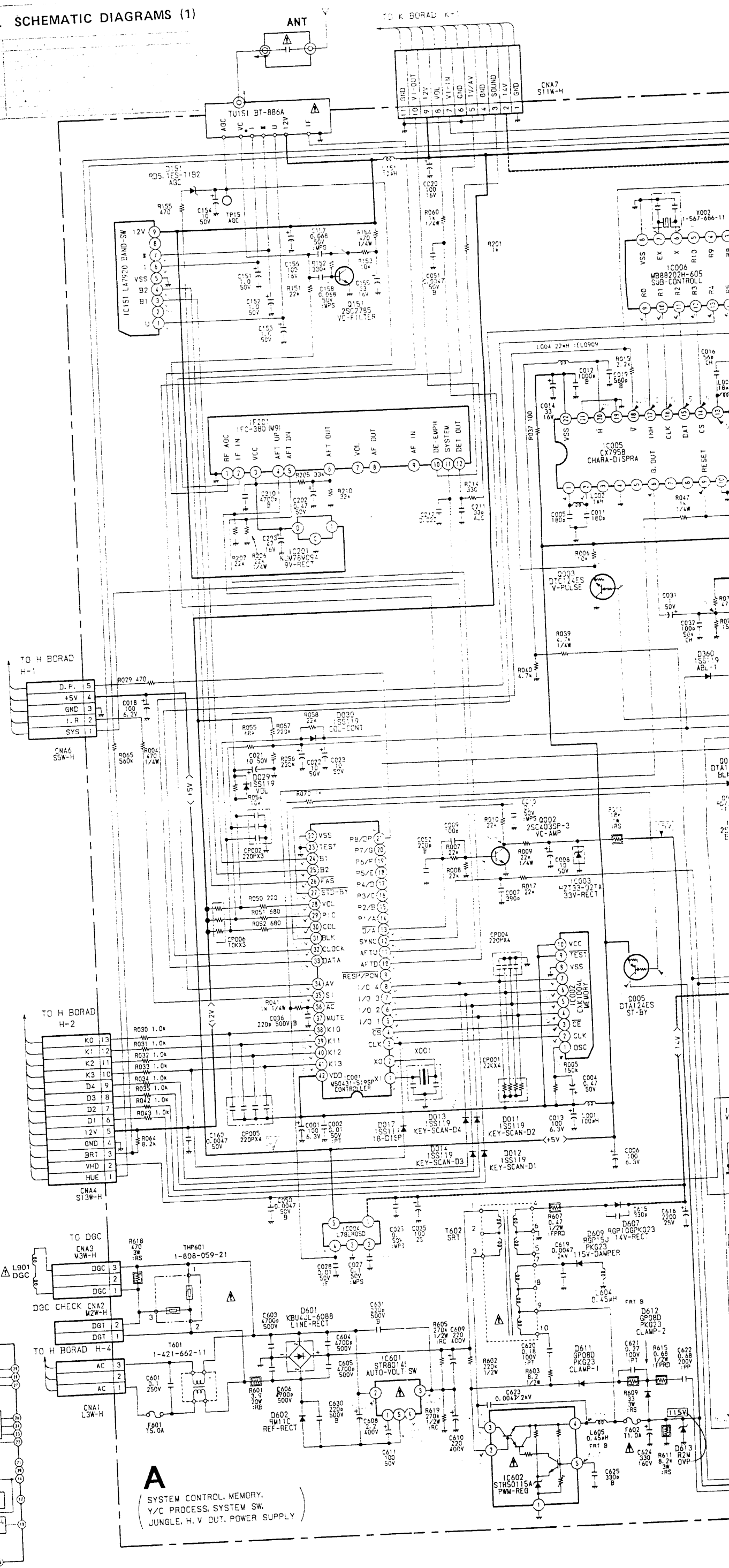
Reference information

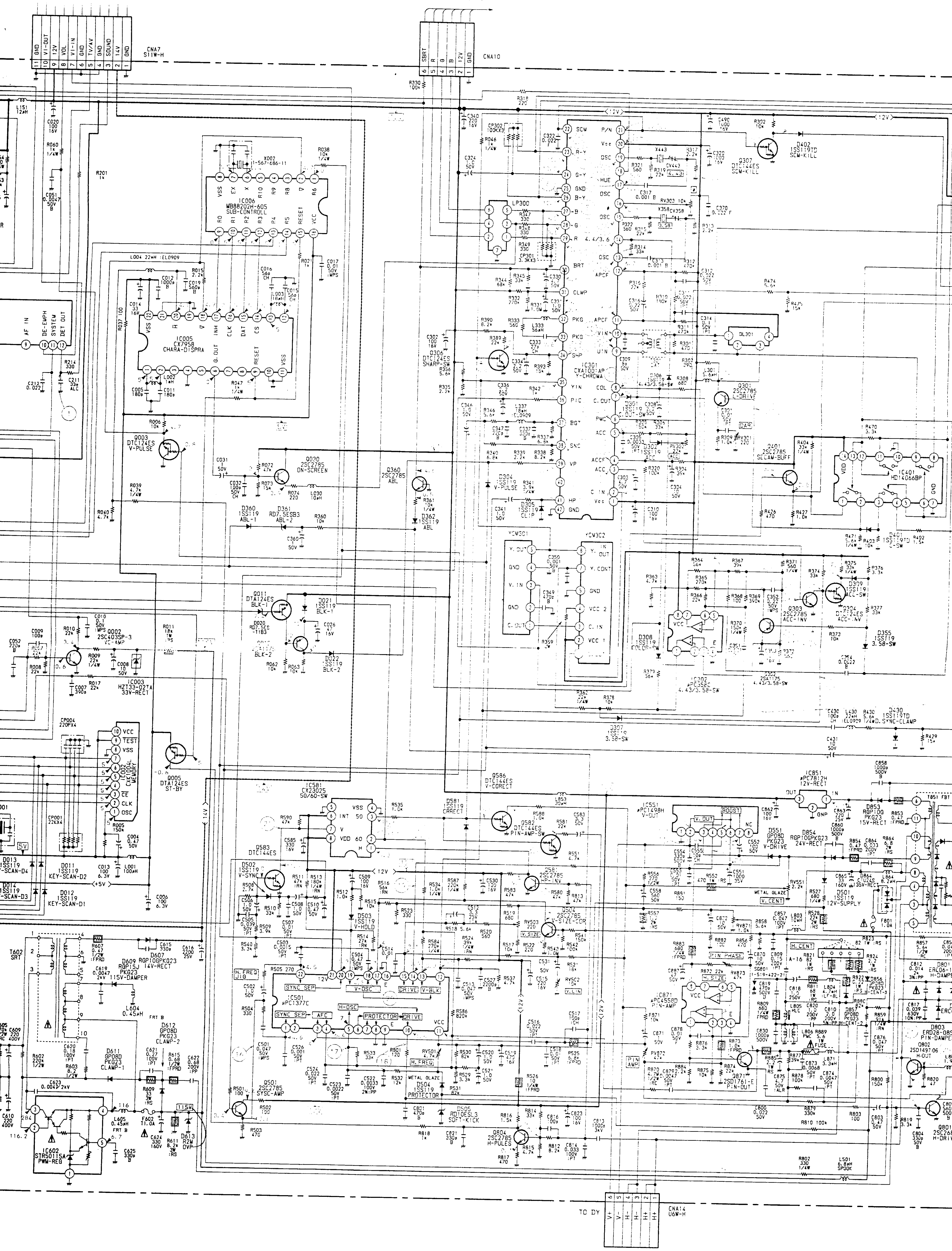
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE WIREWOUNO
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE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

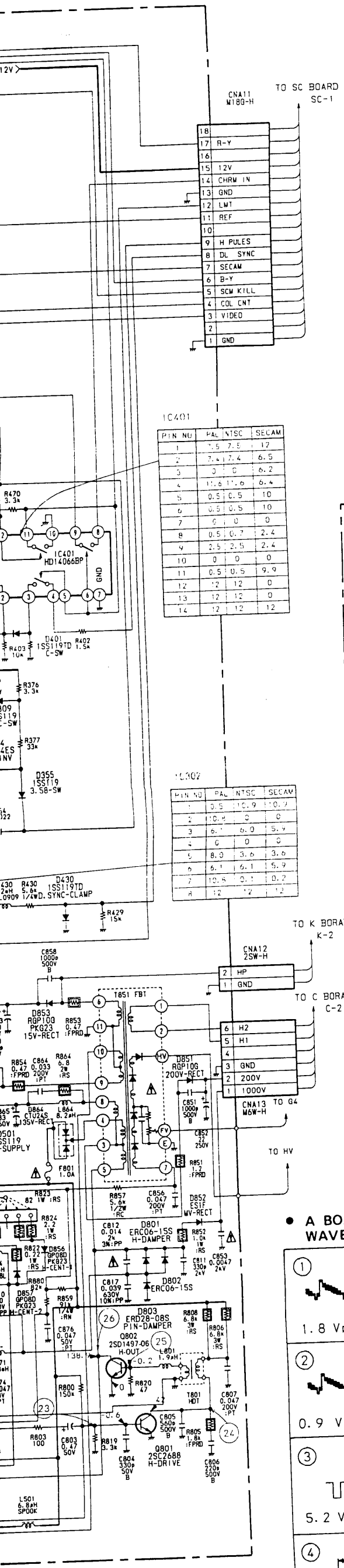
IC301 CXA1001AP

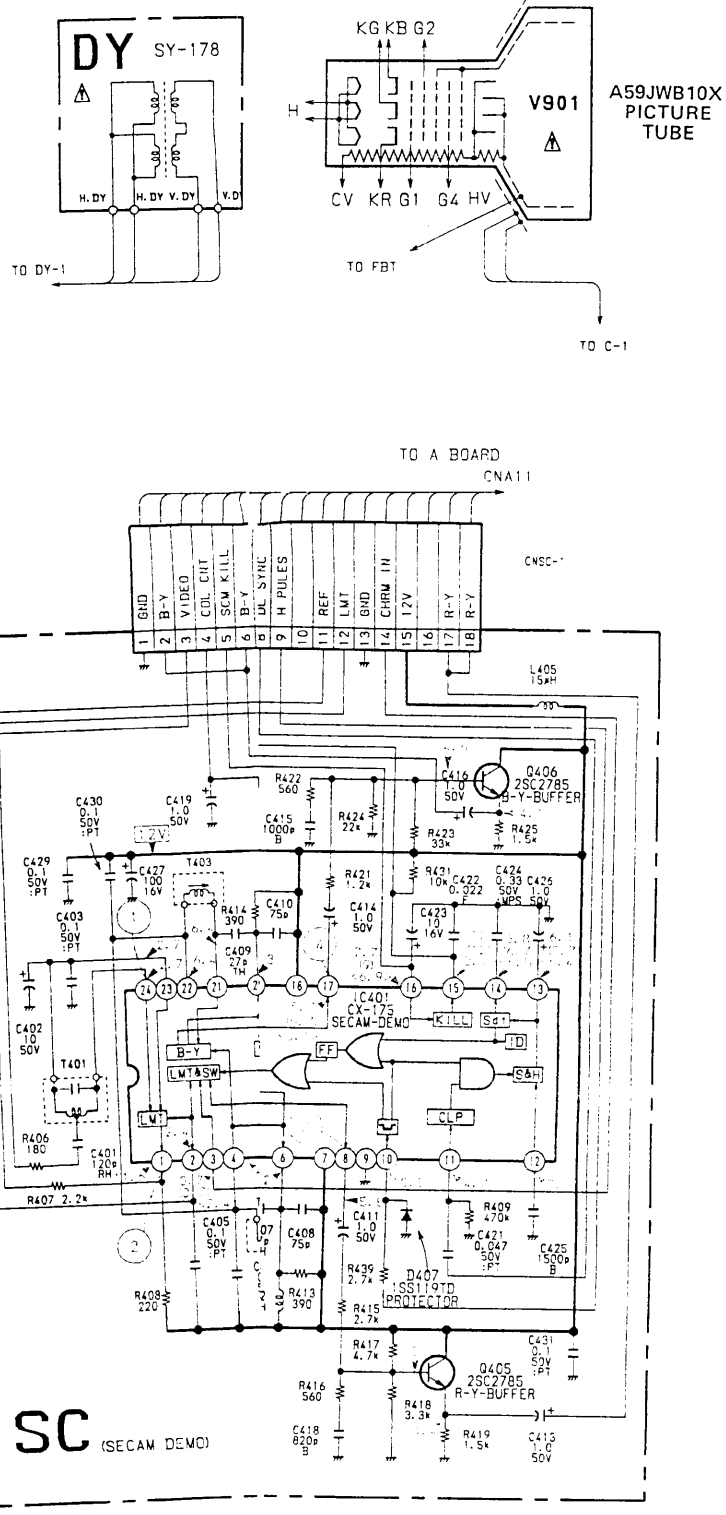


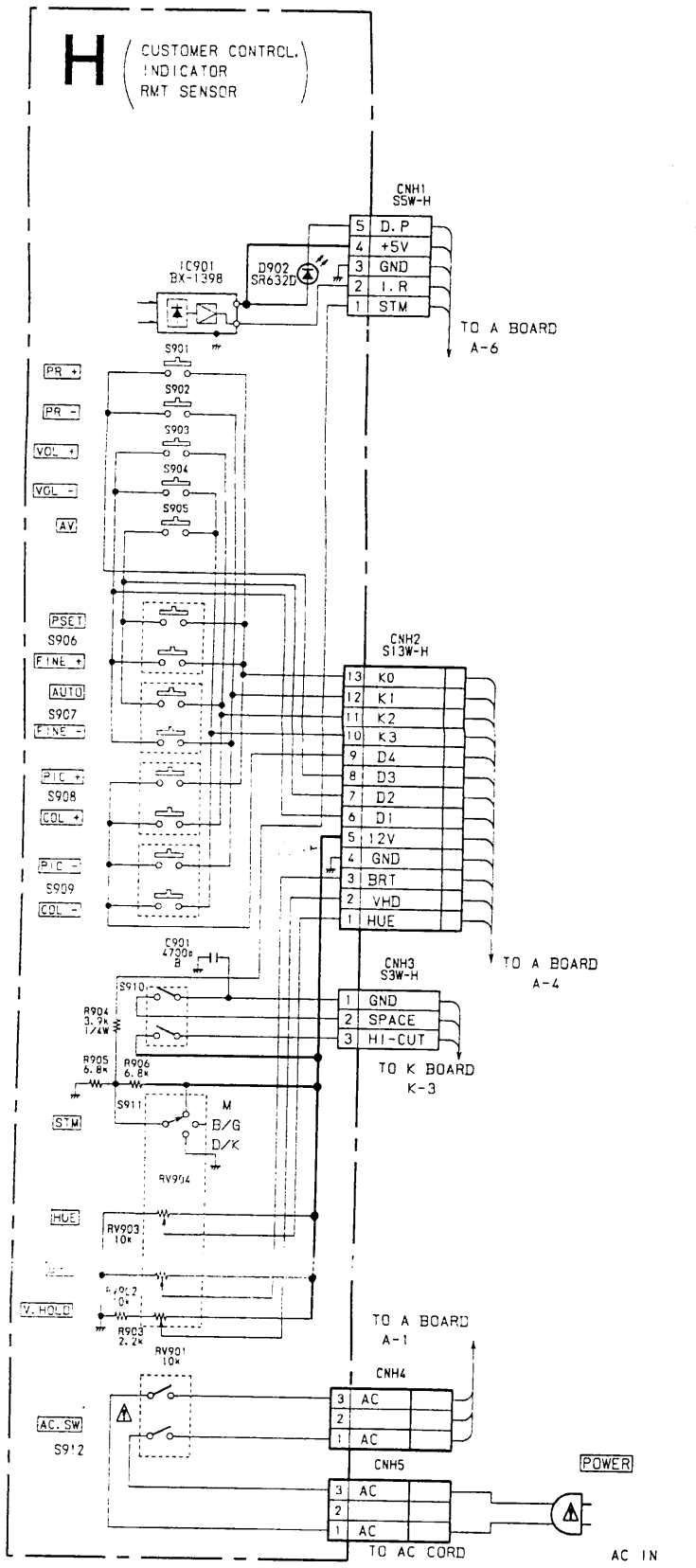
5-2. SCHEMATIC DIAGRAMS (1)




CNA7
S11W-H
GND
VI-OUT
12V
VOL
VI-IN
GND
TV/AV
GND
SOUND
14V
GND
CNA10
SBRT
R
G
B
12V
GND
IC006
MB88202H-605
SUB-CONTROLL
IC005
CX7958
CHARA-DISPRA
Q003
DTC124ES
V-PULSE
Q030
2SC2785
ON-SCREEN
Q360
2SC2785
ABL
IC301
CXA1001AP
Y-CHROMA
Q307
DTC144ES
SCM-KILL
D402
1SS119TD
SCM-KILL
Q401
2SC2785
SECAM-BUFF
IC401
HD14066BP
Q301
2SC2785
L-DRIVE
YCM301
YCM302
IC302
μPC358C
4.43/3.58-SW
Q303
2SC2785
ACC-INV
Q304
DTC124ES
ACC-INV
D355
1SS119
3.58-SW
D430
1SS119TD
SYNC-CLAMP
Q011
DTA124ES
BLK-1
Q002
2SC403SP-3
VC-AMP
IC003
HZT33-02TA
33V-RECT
IC002
CXK1004L
MEMORY
Q005
DTA124ES
ST-BY
IC581
CX23025
50/60-SW
Q586
DTC144ES
V-CORECT
IC551
μPC1498H
V-OUT
IC851
μPC7812H
12V-RECT
T851 FBT
Q582
DTC144ES
PIN-AMP-SW
Q581
2SC2785
HP-INV
Q504
2SC2785
V-SIZE-COR
IC501
μPC1377C
IC871
μPC4558D
PIN-AMP
Q871
2SD1761-E
PIN-OUT
Q501
2SC2785
SYSC-AMP
Q804
2SC2785
H-PULES
Q802
2SD1497-06
H-OUT
Q801
H-DRIVE
D803
ERD28-08S
PIN-DAMPER
T602
SRT
IC602
STR50115A
PWM-REG
D609
RGP15J
PKG23
115V-DAMPER
D607
RGP10GPKG23
14V-RECT
D611
GP08D
PKG23
CLAMP-1
D612
GP08D
PKG23
CLAMP-2
D613
R2M
OVP
TO DY
CNA14
U6W-H
V+
V-
H-
H-
H+
H+







● A BOARD WAVEFORM

① 1.8 Vp-p (H)	⑤ 3.58MHZ 5.6 Vp-p (H) p-p ( )	⑬ 2.0 Vp-p (H)	⑰ 4.8 Vp-p (H)	㉑ 12.0 Vp-p (V)	㉕ 11.0 Vp-p (H)
② 0.9 Vp-p (H)	⑥ SECAM PAL 1.5 Vp-p (H) p-p (H)	⑭ 7.6 Vp-p (V)	⑱ 3.5 Vp-p (H)	㉒ 60.0 Vp-p (V)	㉖ 1100 Vp-p (H)
③ 5.2 Vp-p (H)	⑦ SECAM PAL 0.9 Vp-p (H) p-p (H)	⑮ 4.0 Vp-p (H)	⑲ 3.0 Vp-p (V)	㉓ 2.4 Vp-p (H)	㉗ 3.8Vp-p (4MHz)
④ 4.8 Vp-p (H)	⑧ 4.43MH PAL 0.8 Vp-p ( ) p-p (H)	⑯ 1.6 Vp-p (H)	⑳ 4.0 Vp-p (V)	㉔ 88.0 Vp-p (H)	

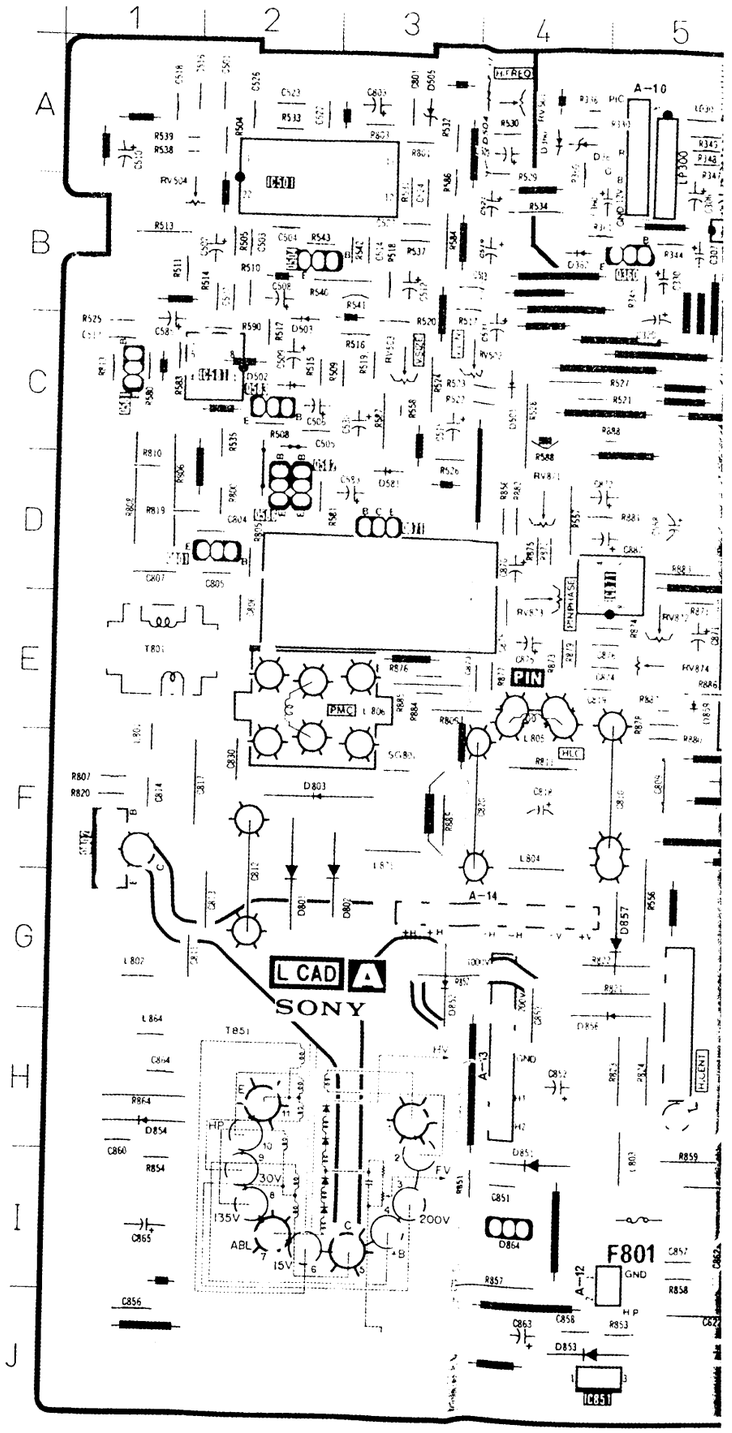
● SC BOARD WAVEFORM

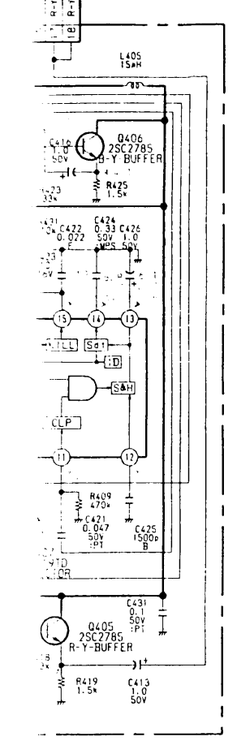
① SECAM 0.75 Vp-p (H)	
② SECAM 0.32 Vp-p (H)	
③ SECAM 2.4 Vp-p (H)	
④ SECAM 2.5 Vp-p (H)	

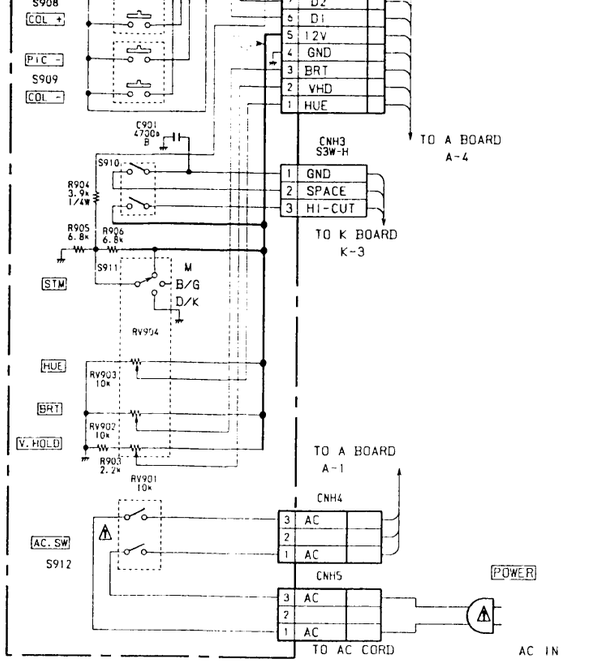
A SYSTEM CONTROL, MEMORY, Y/C PROCESS, SYSTEM SW, JUNGLE, H.V OUT, POWER SUPPLY

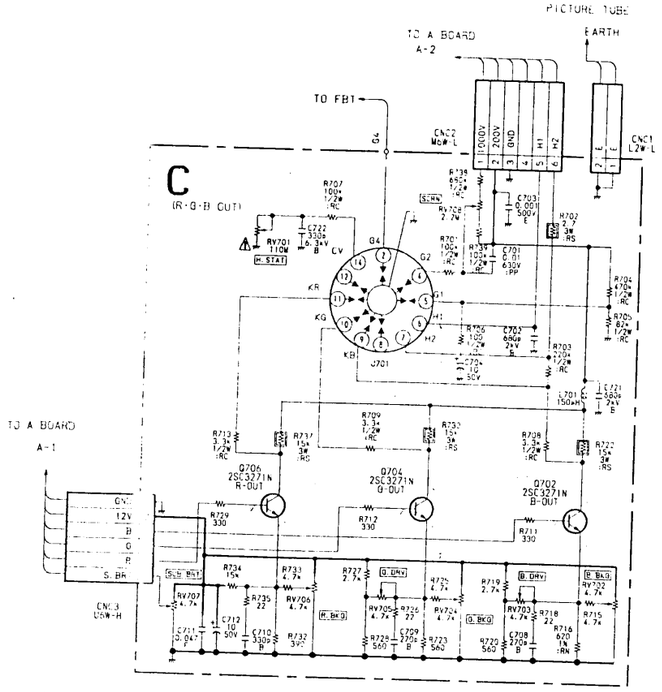
5-3. PRINTED WIRING BOARDS (1)

– A Board –









• **C BOARD WAVEFORM**

①	140 Vp-p (H)
②	120 Vp-p (H)
③	90 Vp-p (H)
④	28 Vp-p (H)

• **SC BOARD WAVEFORM**

⑬ 2.0 Vp-p (H)	⑰ 4.8 Vp-p (H)	㉑ 12.0 Vp-p (V)	㉕ 11.0 Vp-p (H)
⑭ 7.6 Vp-p (V)	⑱ 3.5 Vp-p (H)	㉒ 60.0 Vp-p (V)	㉖ 1100 Vp-p (H)
⑮ 4.0 Vp-p (H)	⑲ 3.0 Vp-p (V)	㉓ 2.4 Vp-p (H)	㉗ 3.8Vp-p (4MHz)
⑯ 1.6 Vp-p (H)	⑳ 4.0 Vp-p (V)	㉔ 88.0 Vp-p (H)	

①	SECAM 0.75 Vp-p (H)
②	SECAM 0.32 Vp-p (H)
③	SECAM 2.4 Vp-p (H)
④	SECAM 2.5 Vp-p (H)

5-4. SCHEMATIC DIAGRAMS (2)