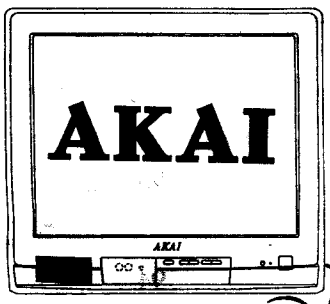
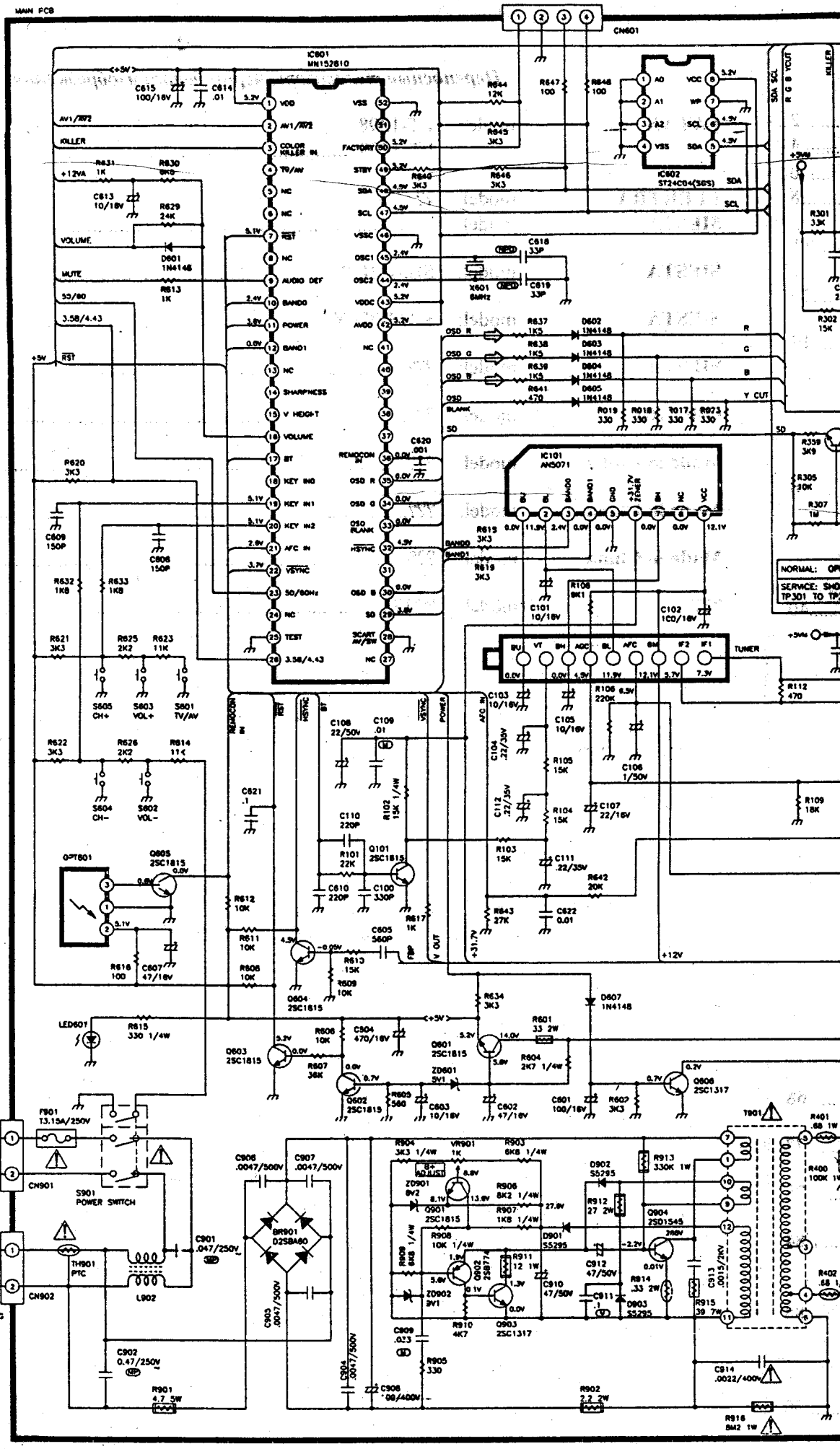


SCHEMATIC DIAGRAM FOR CT-2119PDT(Y2E)

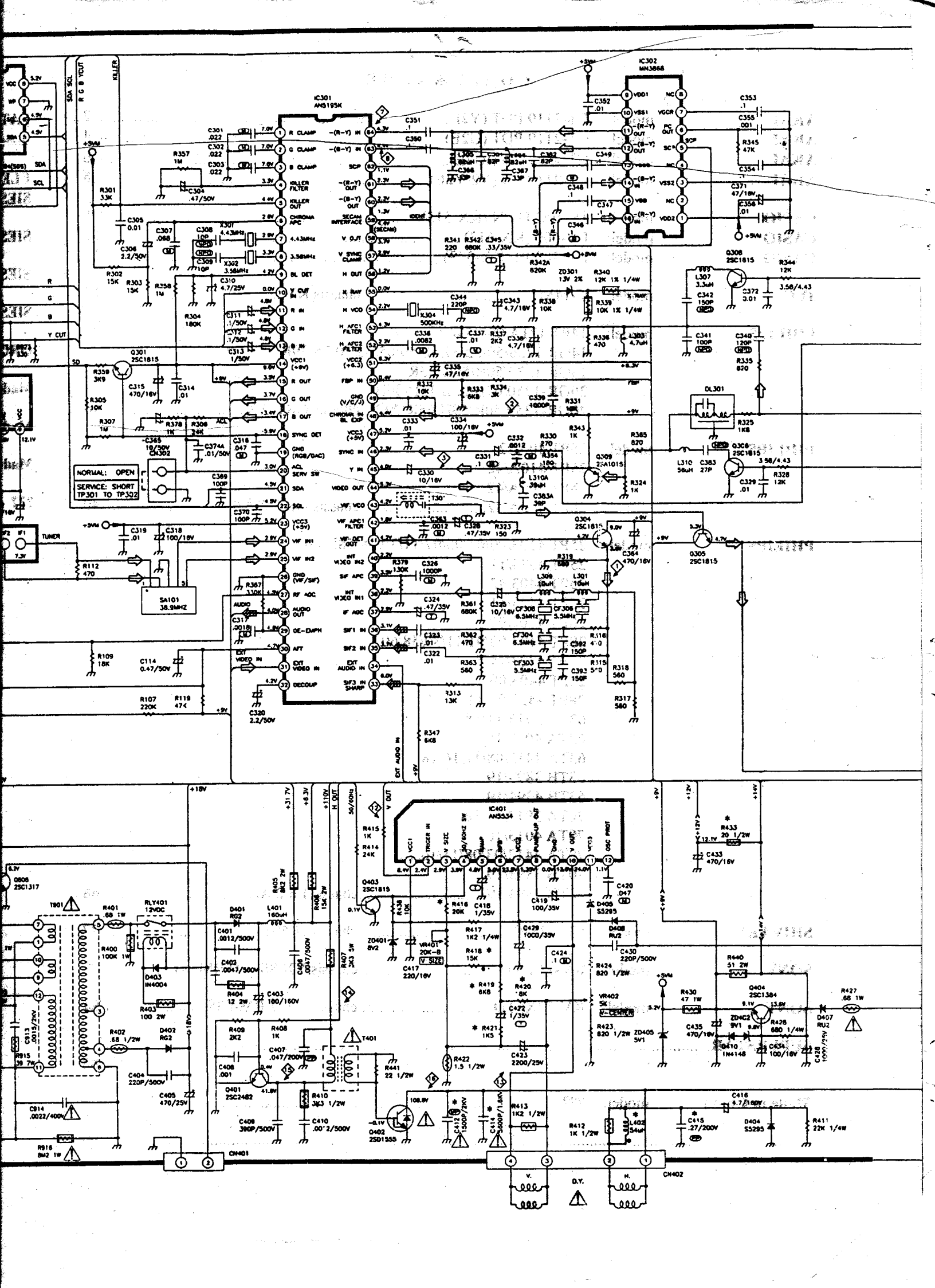
(SYSTEM: RF IN PAL-B/G/D/K CT-14/20/21 WKD 1DT 1DTR
VIDEO IN PAL/NTSC3.58/NTSC4.43)

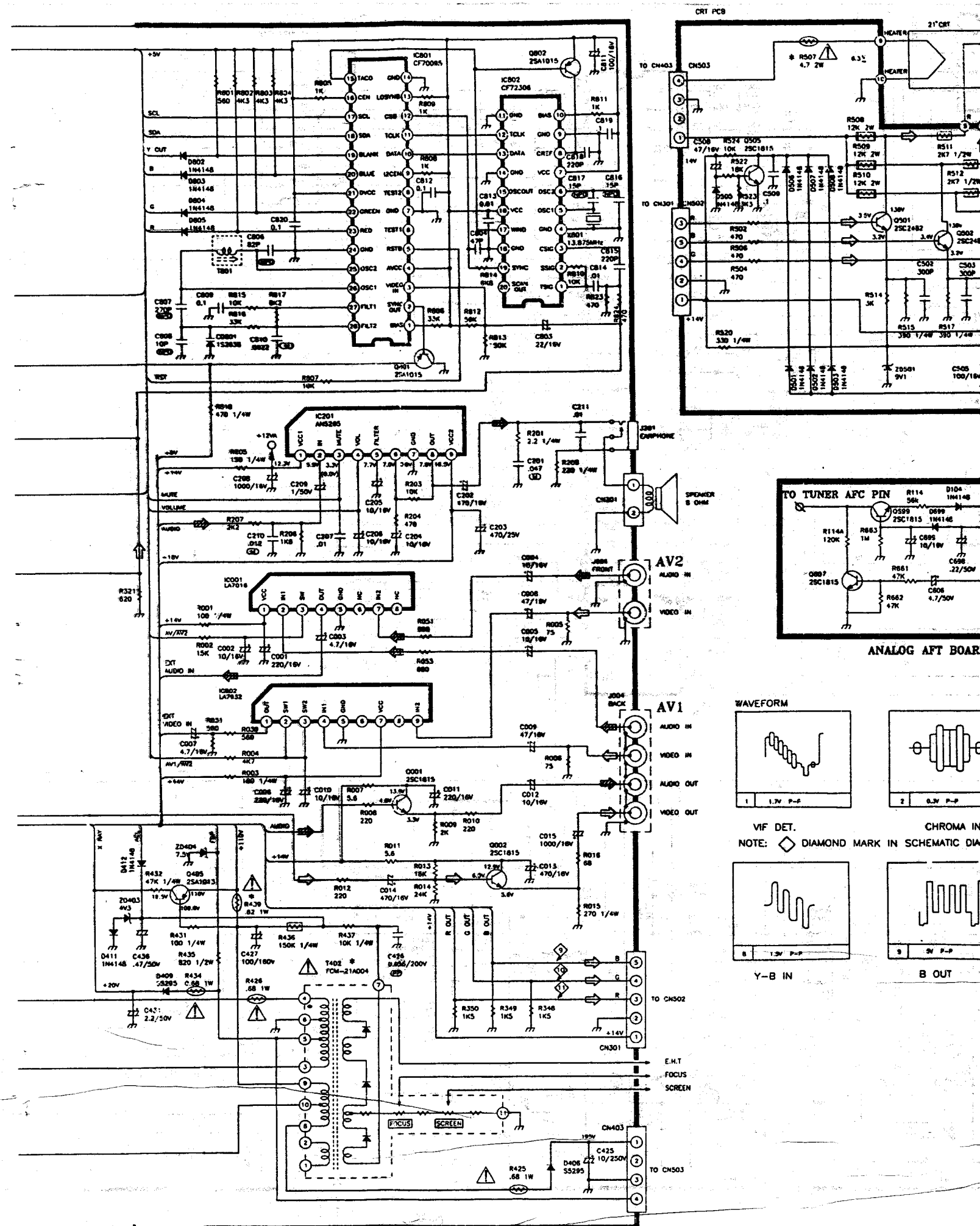


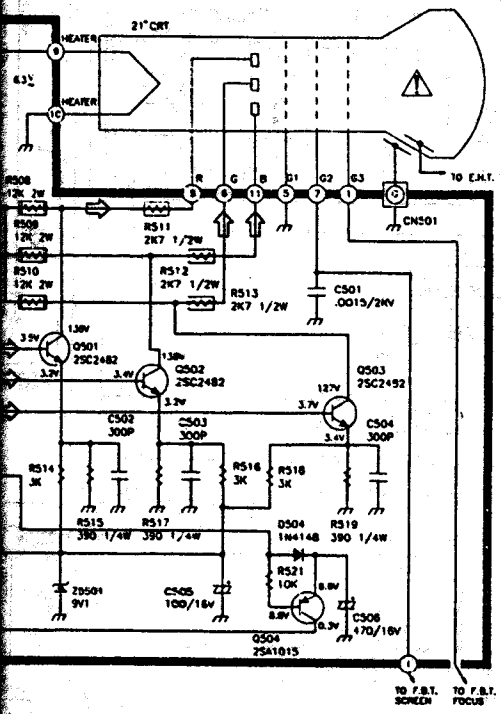
MODEL: CT-2119PD/PDT U2E Y2 Y2E

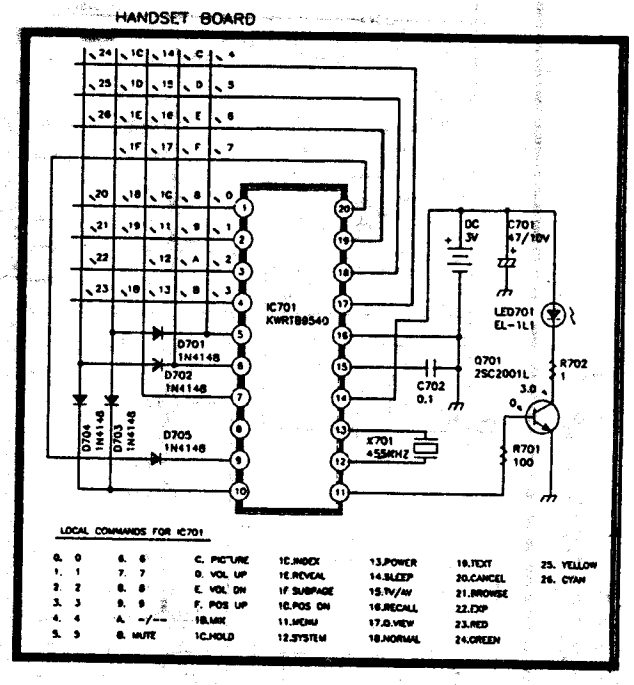
" ⇨ " AUDIO SIGNAL FLOW

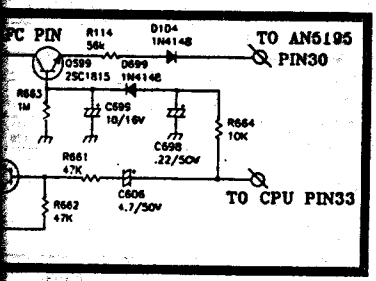
" ⇨ " VIDEO & INCLUDE VIDEO(SUCH AS: VIF) SIGNAL FLOW


IC301
AN5195K
IC302
MN3868
IC401
AN5534
NORMAL: OPEN
SERVICE: SHORT
TP301 TO TP302
SA101
38.9MHz
DL301
CN302
CN401
CN402
Q301
2SC1815
Q302
2SC1815
Q303
2SA1015
Q304
2SC1815
Q305
2SC1815
Q306
2SC1815
Q308
2SC1815
Q309
2SA1015
Q401
2SC2482
Q402
2SD1555
Q403
2SC1815
Q404
2SC1384
Q405
2SC1317
T401
T901
RLY401
12VDC
V. SIZE
V-CENTER
V.
D.Y.
H.

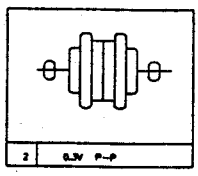

CRT PCB
21"CRT
TO CN403
CN503
TO CN301
CN502
TO TUNER AFC PIN
ANALOG AFT BOAR
AV2
AV1
WAVEFORM
VIF DET.
CHROMA IN
Y-B IN
B OUT
NOTE: ◇ DIAMOND MARK IN SCHEMATIC DIA
TO CN502
CN301
E.H.T
FOCUS
SCREEN
TO CN503
CN403



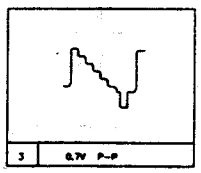




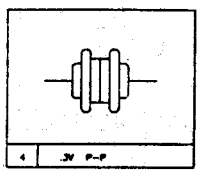
ANALOG AFT BOARD



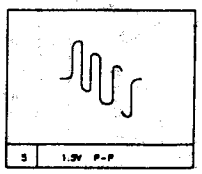
CHROMA IN



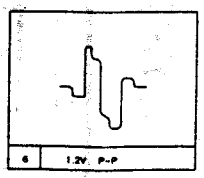
Y IN



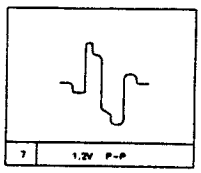
CHROMA IN(SECAM)



Y-B OUT(SECAM)

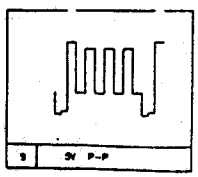


Y-R OUT(SECAM)

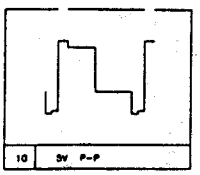


Y-R IN

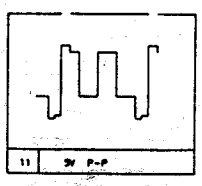
MARK IN SCHEMATIC DIAGRAM HAS BEEN CORRESPONDED FOR EACH PRINCIPAL WAVEFORM.



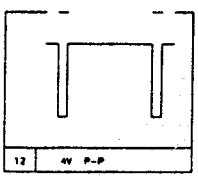
B OUT



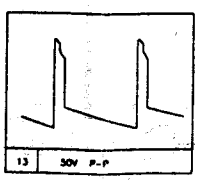
G OUT



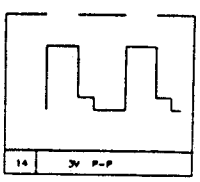
R OUT



V. PULSE

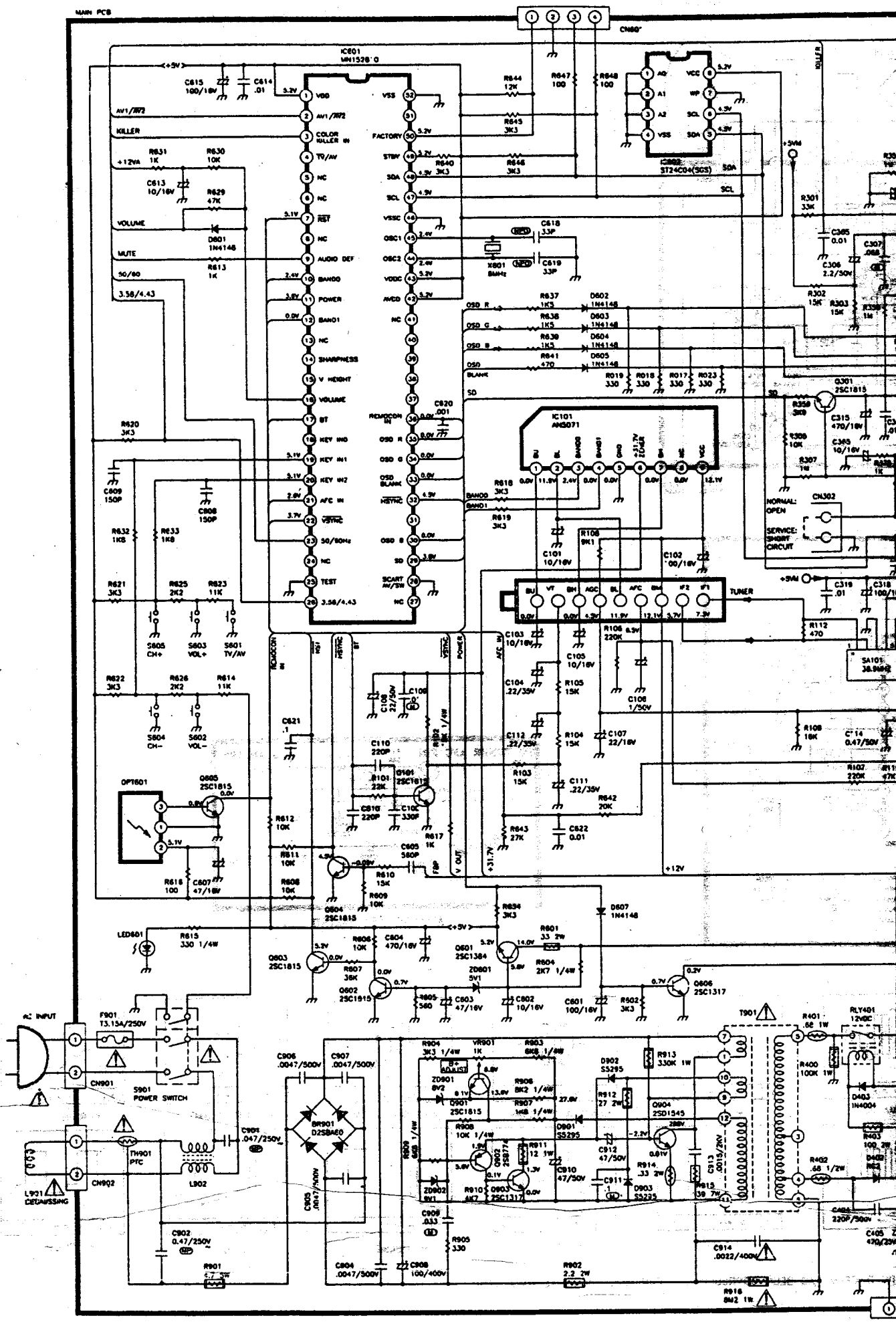


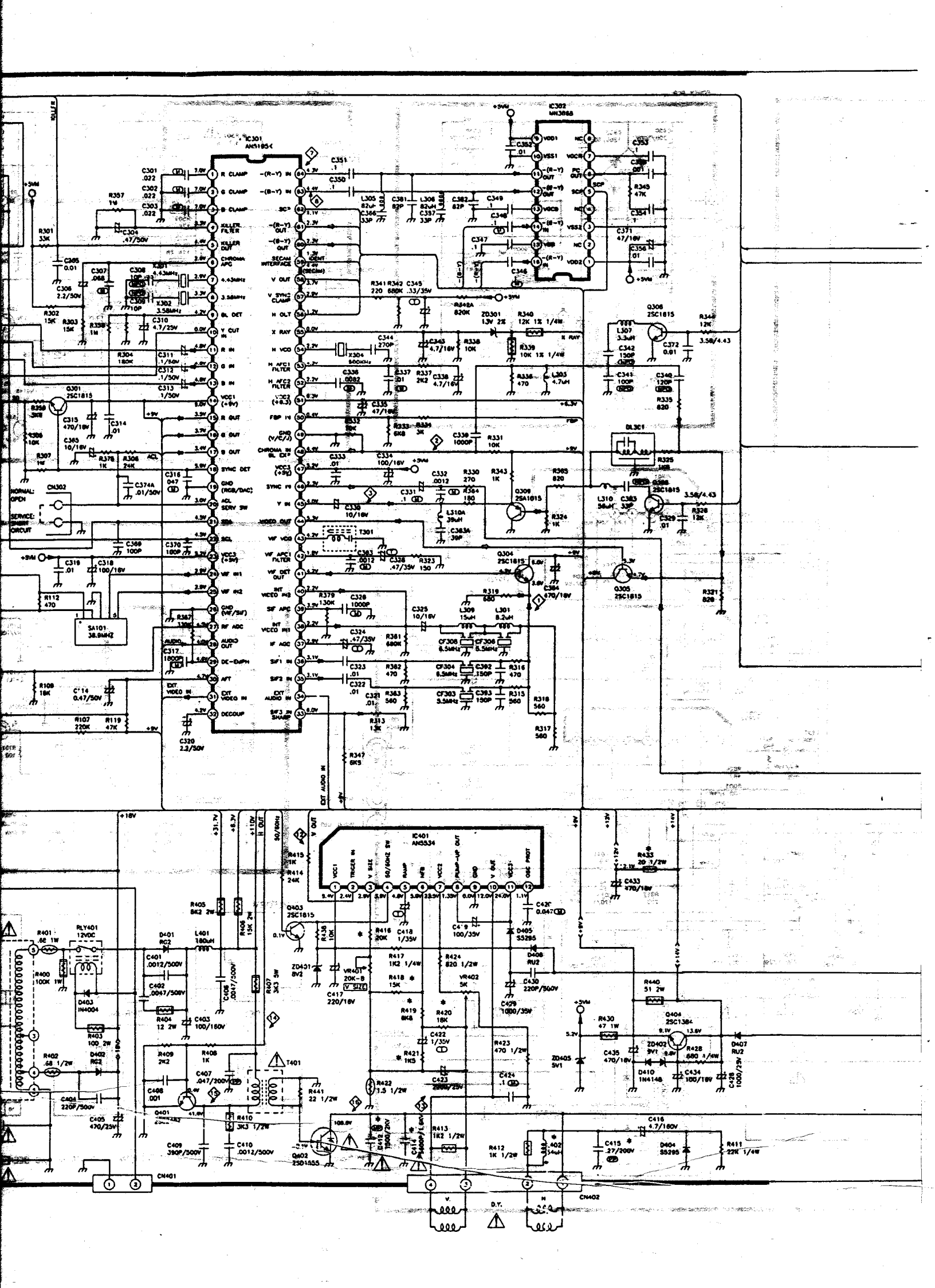
V. OUT

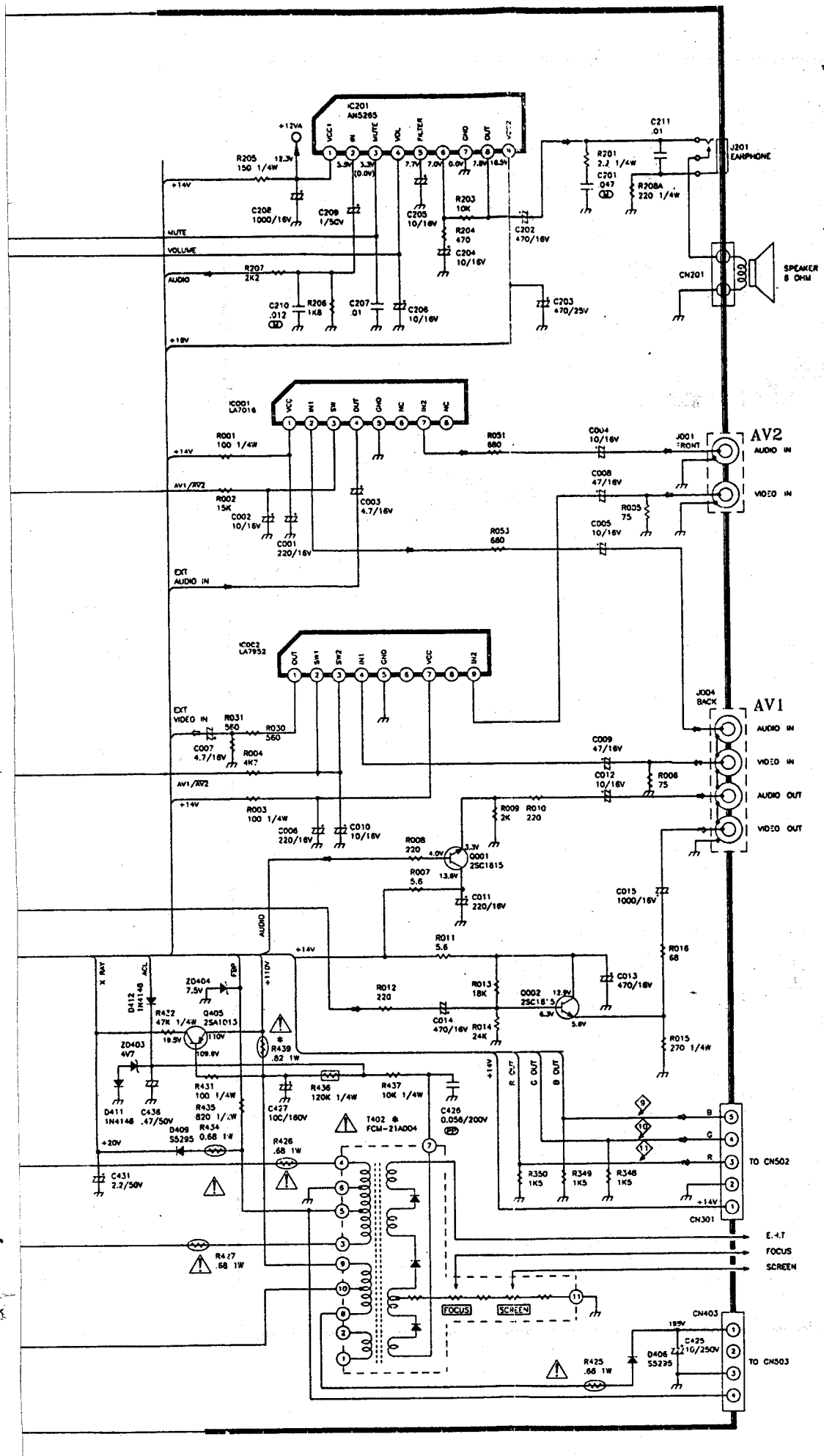


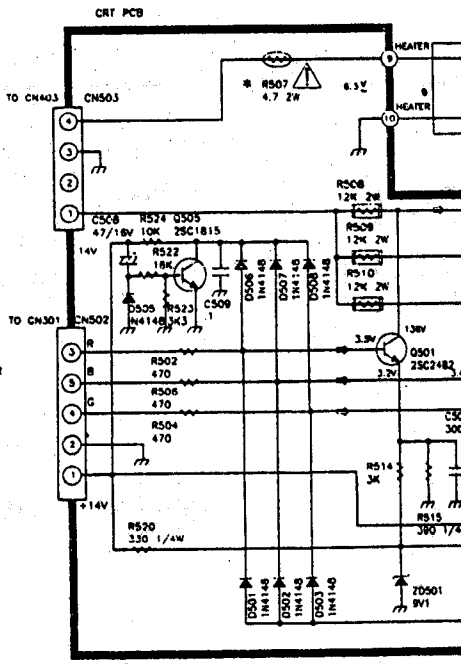
H. PULSE

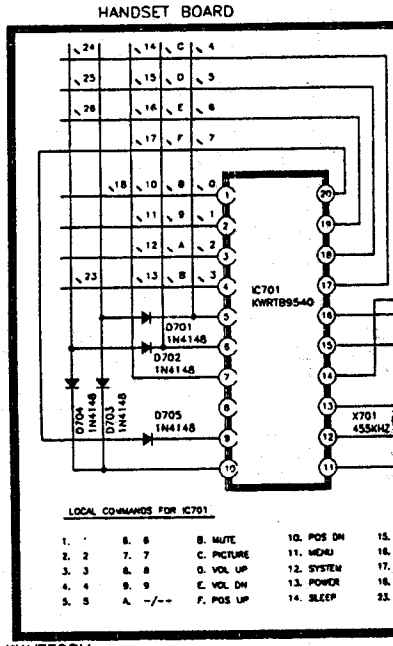
AKAI CT-2119PD(Y2/Y2E) (SYSTEM: RF IN PAL-B/G/D/K
CT-14/20 12/ W KD 1 DT 1 DTR VIDEO IN PAL/NTSC3.58/NTSC4.43)

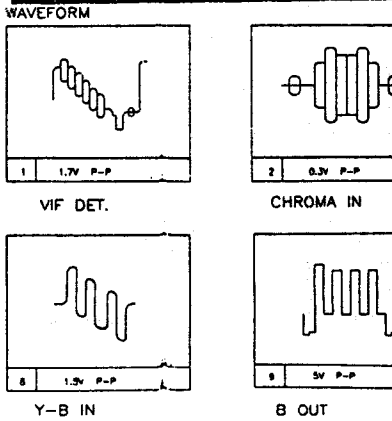




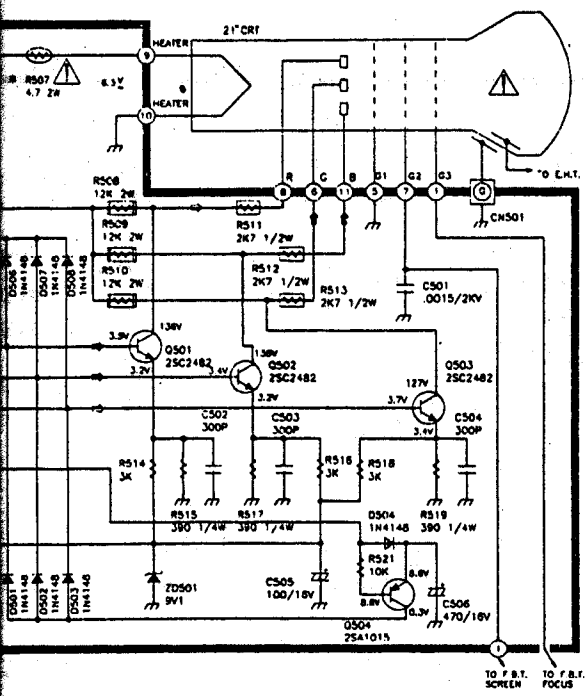








NOTE: ◇ DIAMOND MARK IN SCHEMATIC D

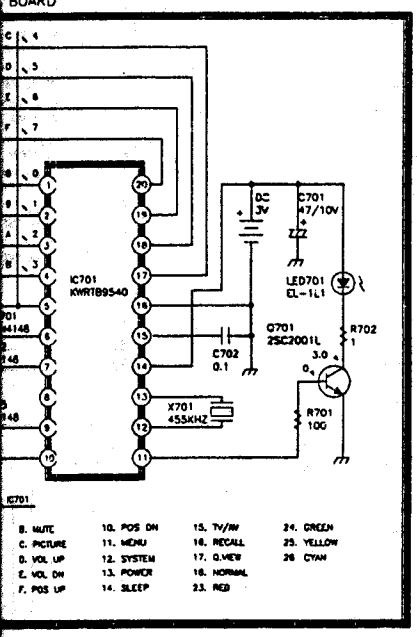


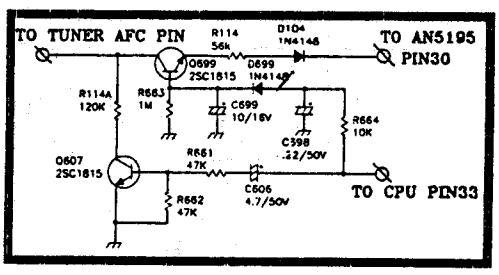
CIRCUIT SYMBOLS		
RESISTOR	CAPACITOR	
NONFLAMMABLE	ELECTROLYIC	POLYPROPYLENE
FUSIBL.	BI-POLAR ELECTROLYTIC	MYLAR
CEMENT	TANTALUM	
METAL OXIDE	METALLIZED POLYESTER	
THERMISTOR	POLYESTER FILM	

NOTE:

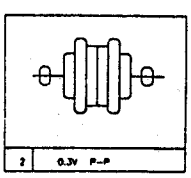
(1) ALL CAPACITORS ARE IN uF UNLESS OTHERWISE NOTED.
ALL CAPACITORS ARE 50wv UNLESS OTHERWISE NOTED.
(2) CAPACITORS NOT SPECIFICALLY DESIGNSTED ARE CERAMIC CAPACITORS.
(3) ALL RESISTORS ARE IN OHM 1/16 WATT UNLESS OTHERWISE NOTED.
(4) RESISTORS NOT SPECIFICALLY DESIGNATED ARE CARBON FILM RESISTORS.
(5) DC VOLTAGES ARE MEASURED FORM POINTS INDICATED TO THE CIRCUIT GROUND WITH A DGITAL MULTIMETER TEST.
(6) WAVEFORMS ARE TAKEN WITH SETTING CONTROLS TO NORMAL CONDITIONS, (COLOR PHILIPS PATTERN)
(7) THIS CIRCUIT DIAGRAM IS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.
(8) ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURERS RECOMMENDED PARTS.

BOARD

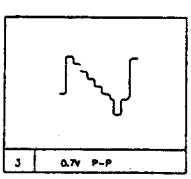




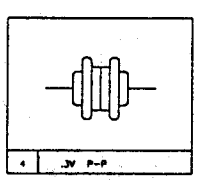
ANALOG AFT BOARD



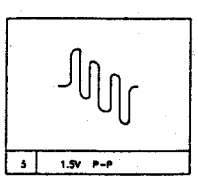
CHROMA IN



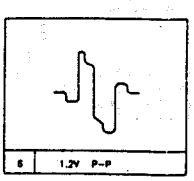
Y IN



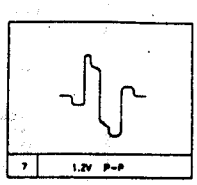
CHROMA IN(SECAM)



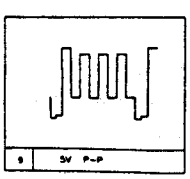
Y-B OUT(SECAM)



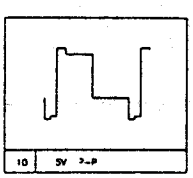
Y-R OUT(SECAM)



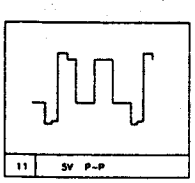
Y-R IN



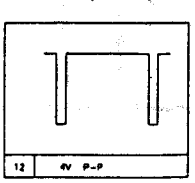
B OUT



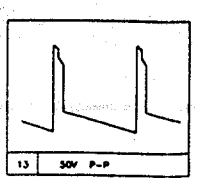
G OUT



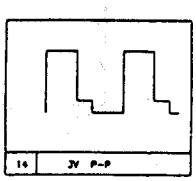
R OUT



V. PULSE



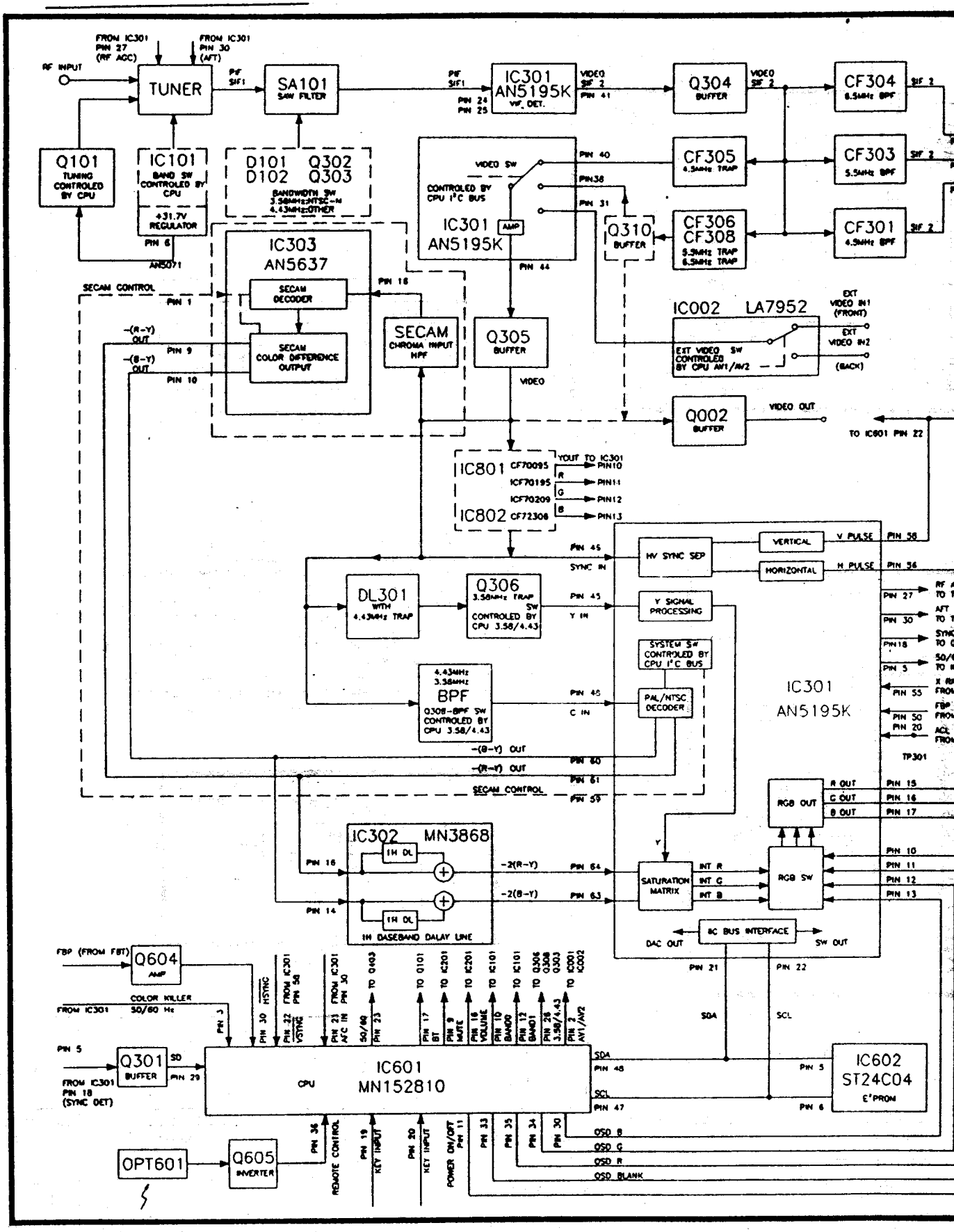
V. OUT

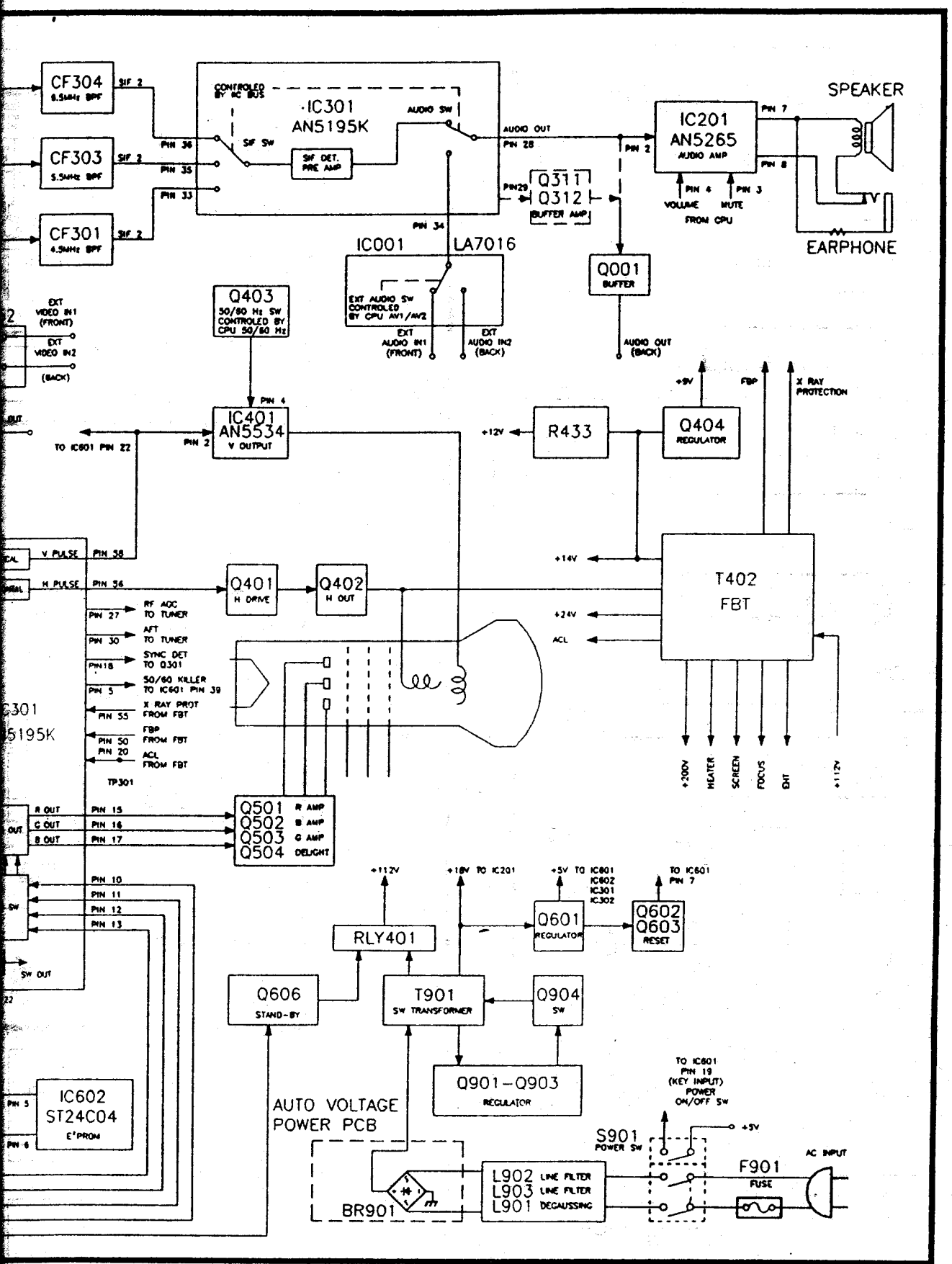


H. PULSE

D MARK IN SCHEMATIC DIAGRAM HAS BEEN CORRESPONDED FOR EACH PRINCIPAL WAVEFORM.

BLOCK DIAGRAM




CF304
CF303
CF301
SIF 2
CONTROLED BY IIC BUS
IC301
AN5195K
SIF SW
SIF DET. PRE AMP
AUDIO SW
AUDIO OUT
PIN 28
PIN 36
PIN 35
PIN 33
PIN 34
PIN29
Q311
Q312
BUFFER AMP
IC201
AN5265
AUDIO AMP
PIN 7
PIN 8
PIN 2
PIN 4
PIN 3
VOLUME
MUTE
FROM CPU
SPEAKER
EARPHONE
IC001
LA7016
EXT AUDIO SW CONTROLED BY CPU AV1/AV2
EXT AUDIO IN1 (FRONT)
EXT AUDIO IN2 (BACK)
Q001
BUFFER
AUDIO OUT (BACK)
EXT VIDEO IN1 (FRONT)
EXT VIDEO IN2
(BACK)
Q403
50/60 Hz SW CONTROLED BY CPU 50/60 Hz
PIN 4
IC401
AN5534
V OUTPUT
PIN 2
TO IC601 PIN 22
+12V
R433
Q404
REGULATOR
+9V
FBP
X RAY PROTECTION
+14V
+24V
ACL
T402
FBT
V PULSE
PIN 38
H PULSE
PIN 56
Q401
H DRIVE
Q402
H OUT
PIN 27
RF AGC TO TUNER
PIN 30
AFT TO TUNER
PIN18
SYNC DET TO Q301
PIN 5
50/60 KILLER TO IC601 PIN 39
PIN 55
X RAY PROT FROM FBT
PIN 50
FBP FROM FBT
PIN 20
ACL FROM FBT
TP301
+200V
HEATER
SCREEN
FOCUS
EHT
+112V
R OUT
G OUT
B OUT
PIN 15
PIN 16
PIN 17
Q501 R AMP
Q502 B AMP
Q503 G AMP
Q504 DELIGHT
PIN 10
PIN 11
PIN 12
PIN 13
SW OUT
+112V
+18V TO IC201
+5V TO IC601 IC602 IC301 IC302
TO IC601 PIN 7
RLY401
Q601
REGULATOR
Q602
Q603
RESET
Q606
STAND-BY
T901
SW TRANSFORMER
Q904
SW
Q901-Q903
REGULATOR
IC602
ST24C04
E²PROM
PIN 5
PIN 6
AUTO VOLTAGE POWER PCB
BR901
L902 LINE FILTER
L903 LINE FILTER
L901 DEGAUSSING
TO IC601 PIN 19 (KEY INPUT) POWER ON/OFF SW
S901
POWER SW
+5V
F901
FUSE
AC INPUT