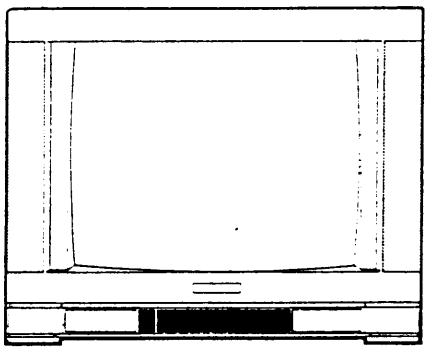
COLOUR TV
SERVICE MANUAL

AUTION
EFORE SERVICING THE CHASSIS, READ THE "SAFETY PRECAUTIONS" IN THIS MANUAL.



CHASSIS : PC-12A(CBT-2871E)

ART NO. 483-778D

FEB., 1993

CIRCUIT DIAGRAM

MODEL : CBT-287TE

NOTICE

Since this is a basic circuit diagram, the value of components and some partial connection are subject to be changed for improvement.

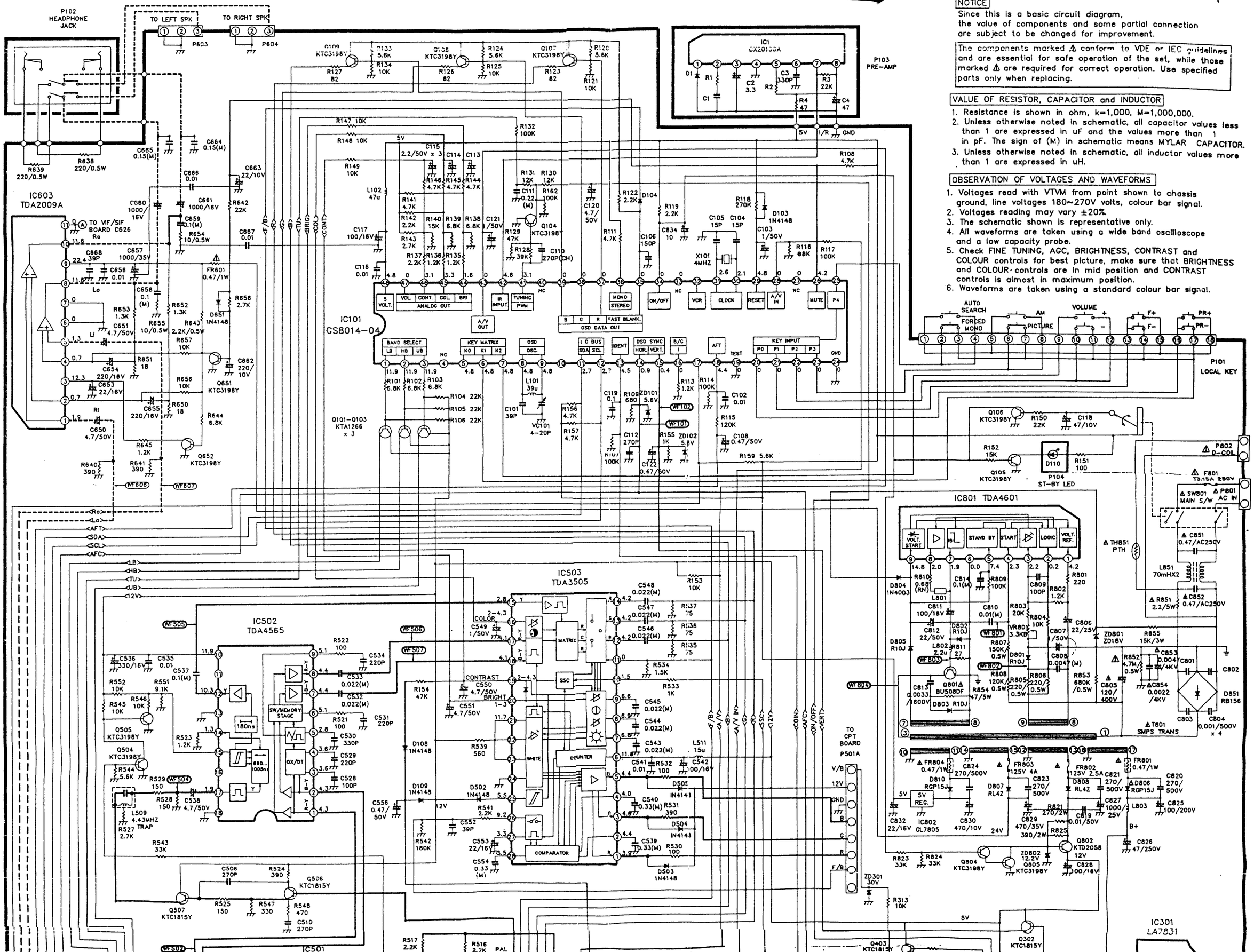
The components marked ⚠ conform to VDE or IEC guidelines and are essential for safe operation of the set, while those marked ⚠ are required for correct operation. Use specified parts only when replacing.

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000.
2. Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in uF and the values more than 1 in pF. The sign of (M) in schematic means MYLAR CAPACITOR.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in uH.

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages read with VTVM from point shown to chassis ground, line voltages 180~270V volts, colour bar signal.
2. Voltages reading may vary ±20%.
3. The schematic shown is representative only.
4. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
5. Check FINE TUNING, AGC, BRIGHTNESS, CONTRAST and COLOUR controls for best picture, make sure that BRIGHTNESS and COLOUR controls are in mid position and CONTRAST controls is almost in maximum position.
6. Waveforms are taken using a standard colour bar signal.



IC501
TDA4555

IC401
TDA2579

IC301
LA7831

IC205
TEA2014

IC204
GL4558

TU181
TUNER

P202A
VIF/SIF BOARD

P201A

SK201
SCART

P302A
TO E/W BOARD P302B

P701A
TO CPT BOARD P701B

P301

P/N : 484-799P(1/2)

WF101 15625HZ

WF102 50HZ

WF201 2.0Vp-p

WF301 0.6Vp-p

WF302 30Vp-p

WF303 4.0Vp-p

WF304 6.0Vp-p

WF401 2Vp-p

WF402 11.5Vp-p

WF403 0.8Vp-p

WF404 70Vp-p

WF405 100Vp-p

WF406 8Vp-p

WF407 1400Vp-p

WF408 50Vp-p

WF409 186Vp-p

WF501 100mVp-p

WF502 1.3Vp-p

WF503 1.8Vp-p

WF504 1Vp-p

WF505 0.5Vp-p

WF506 1.3Vp-p

WF507 1.8Vp-p

WF608 600mVp-p

WF607 600mVp-p

WF801 1.5Vp-p

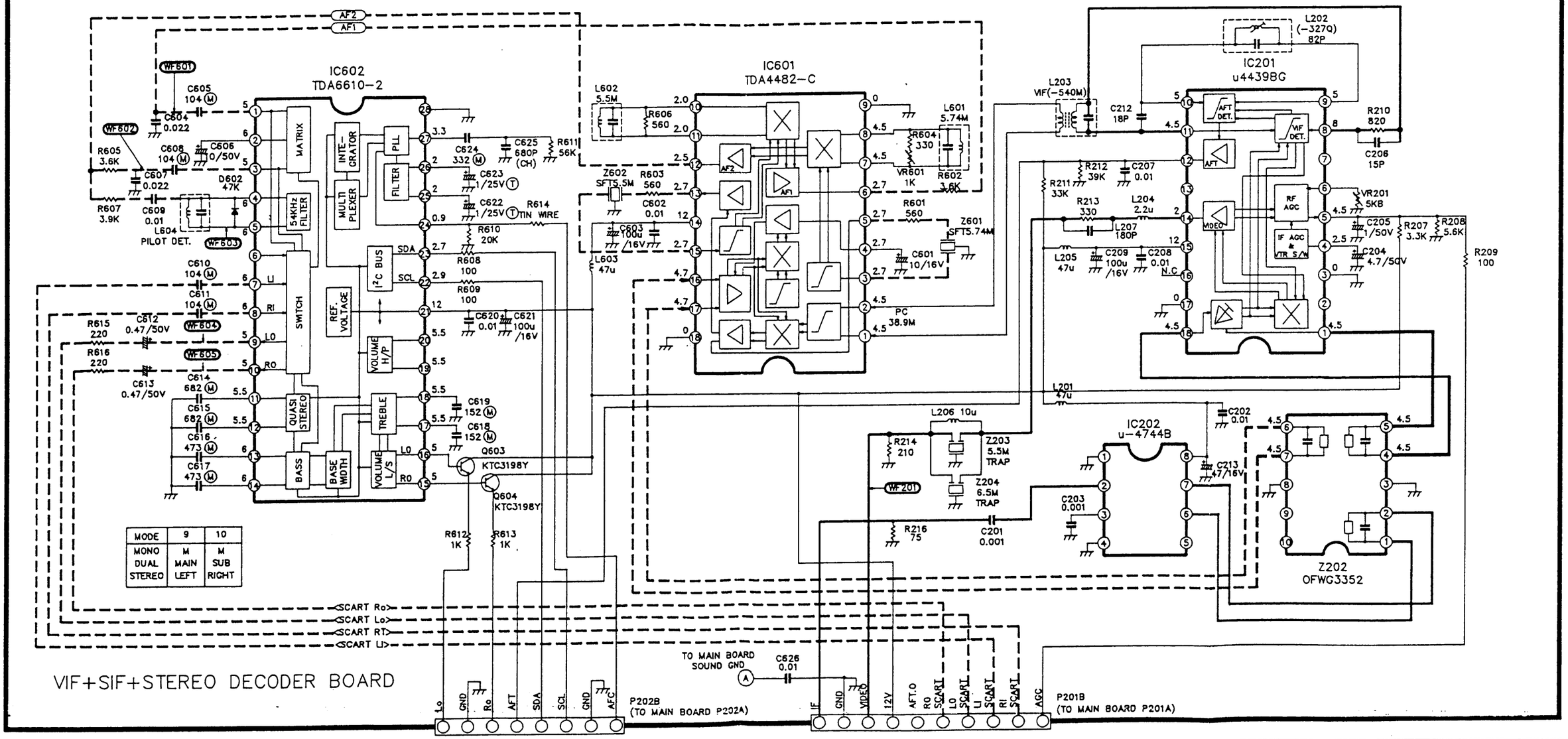
WF802 75Vp-p

WF803 8.0Vp-p

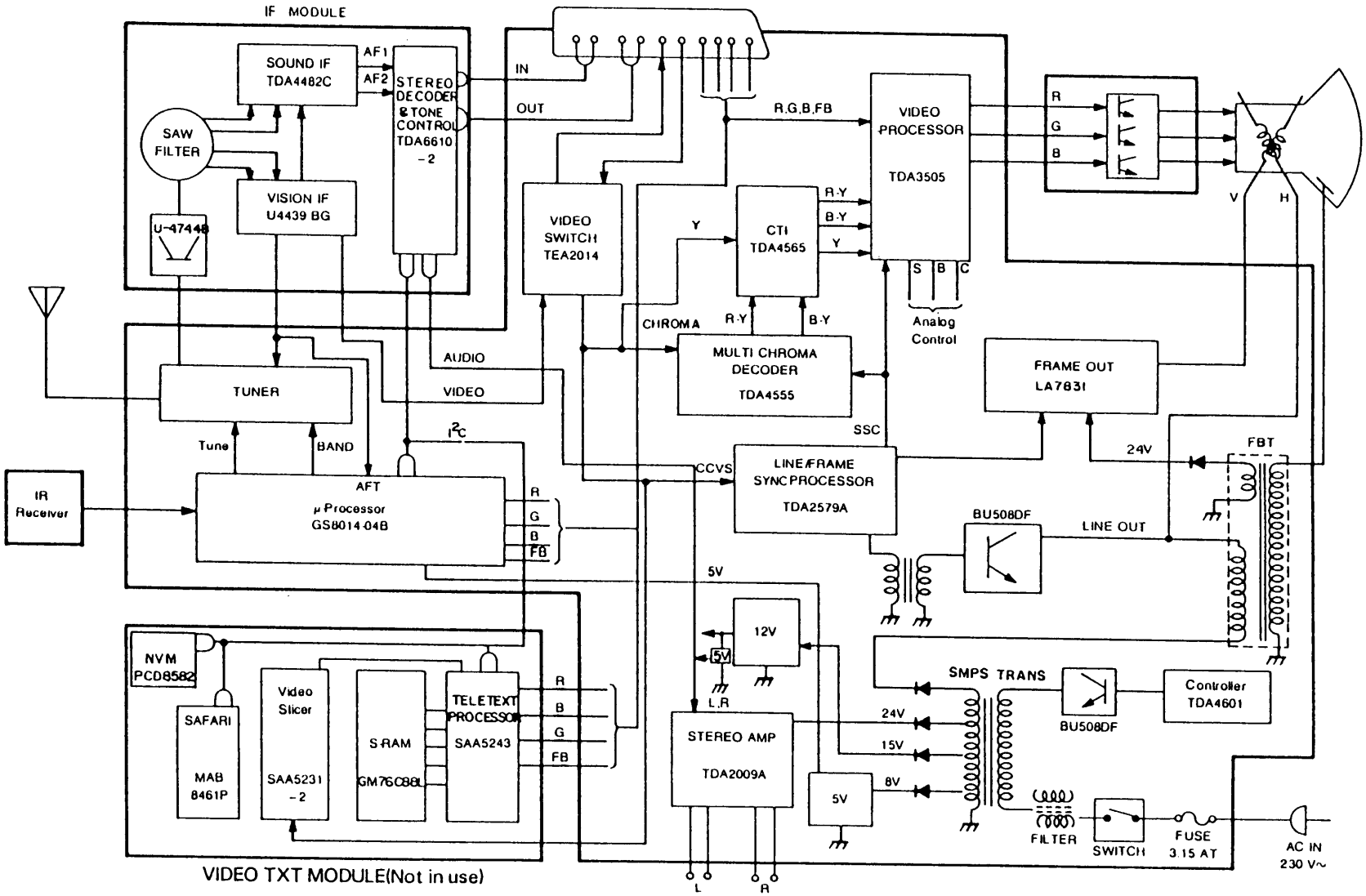
WF804 530Vp-p

PC-12A SUB-BOARD

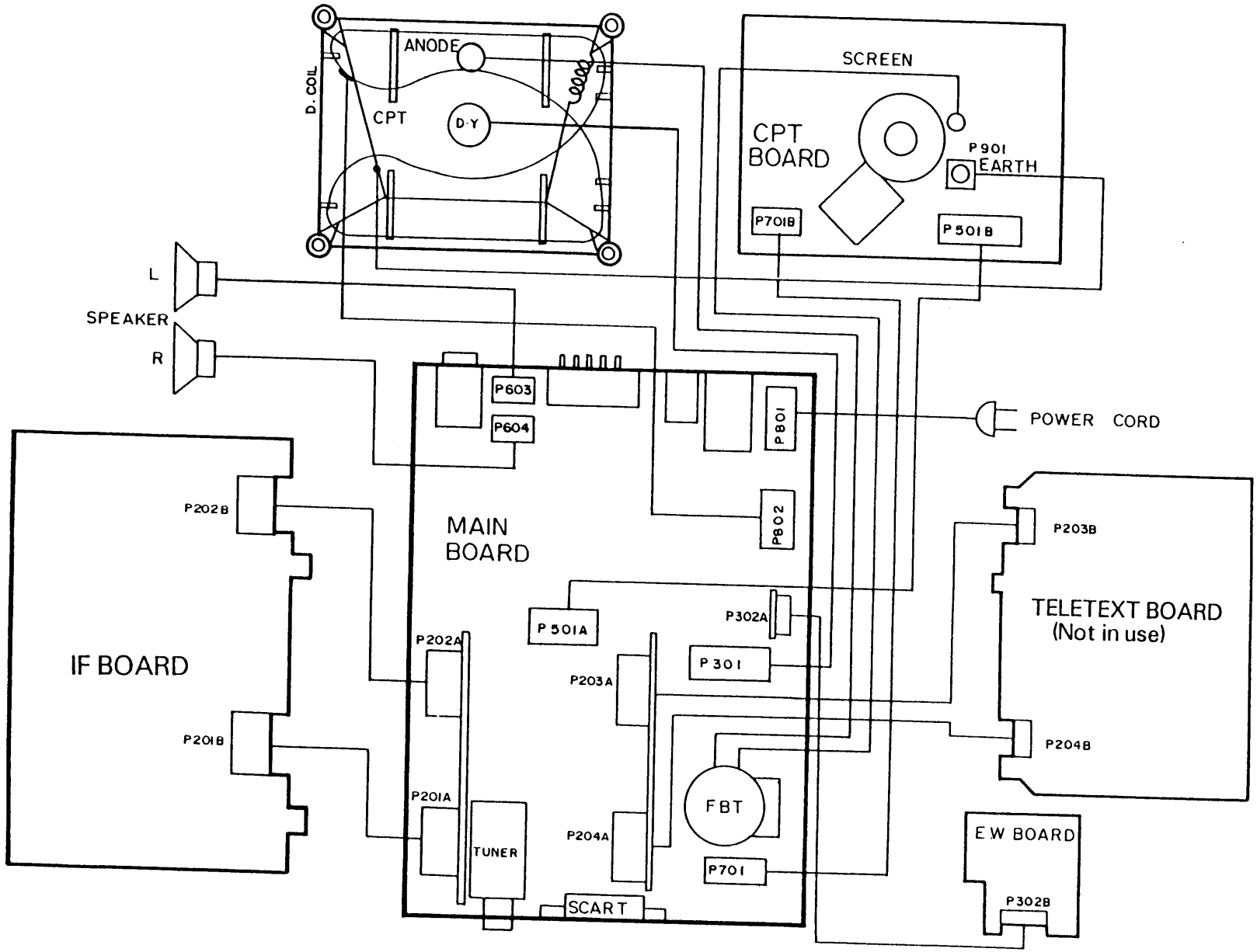
MODEL : CBT-2871E

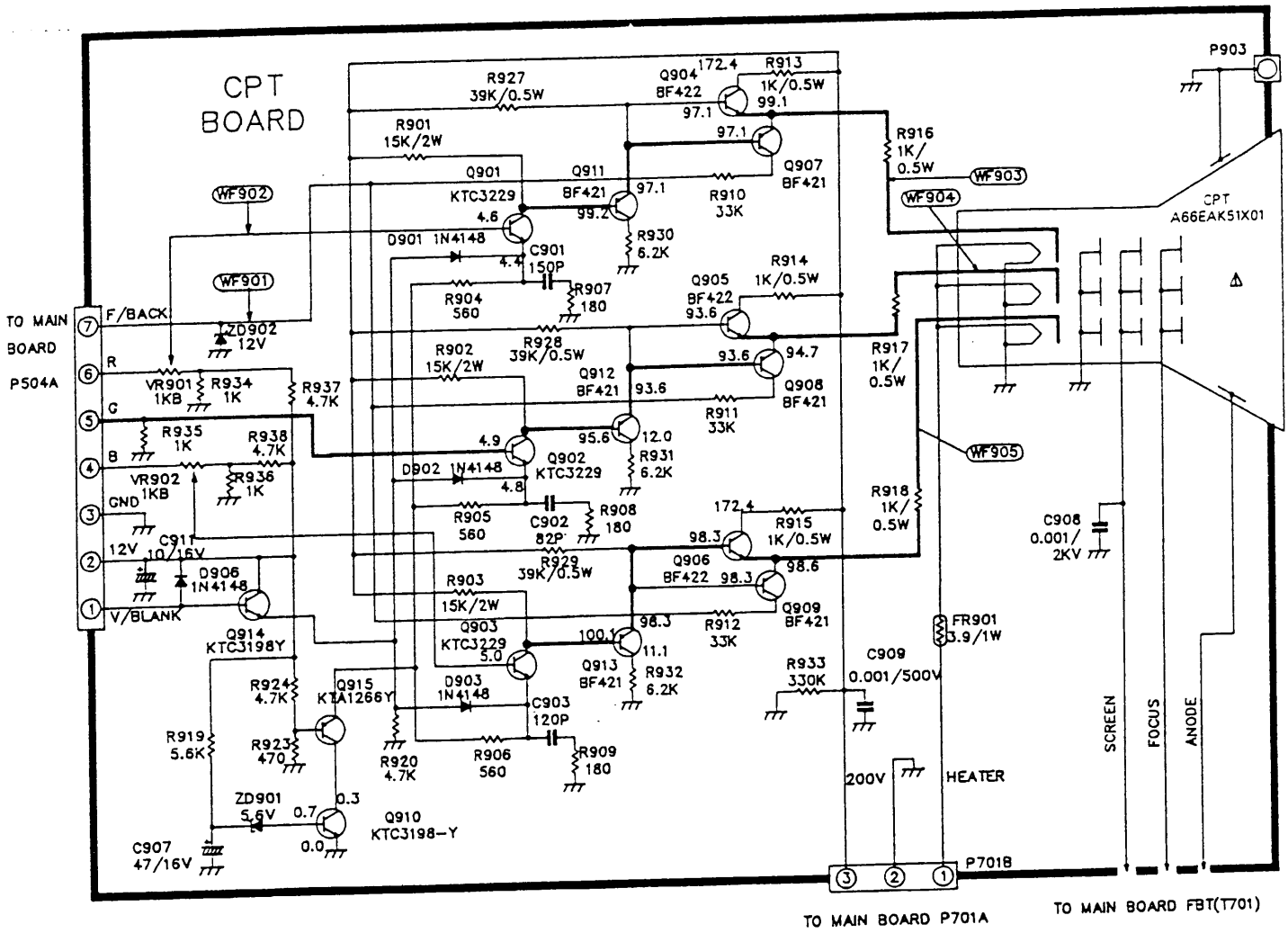


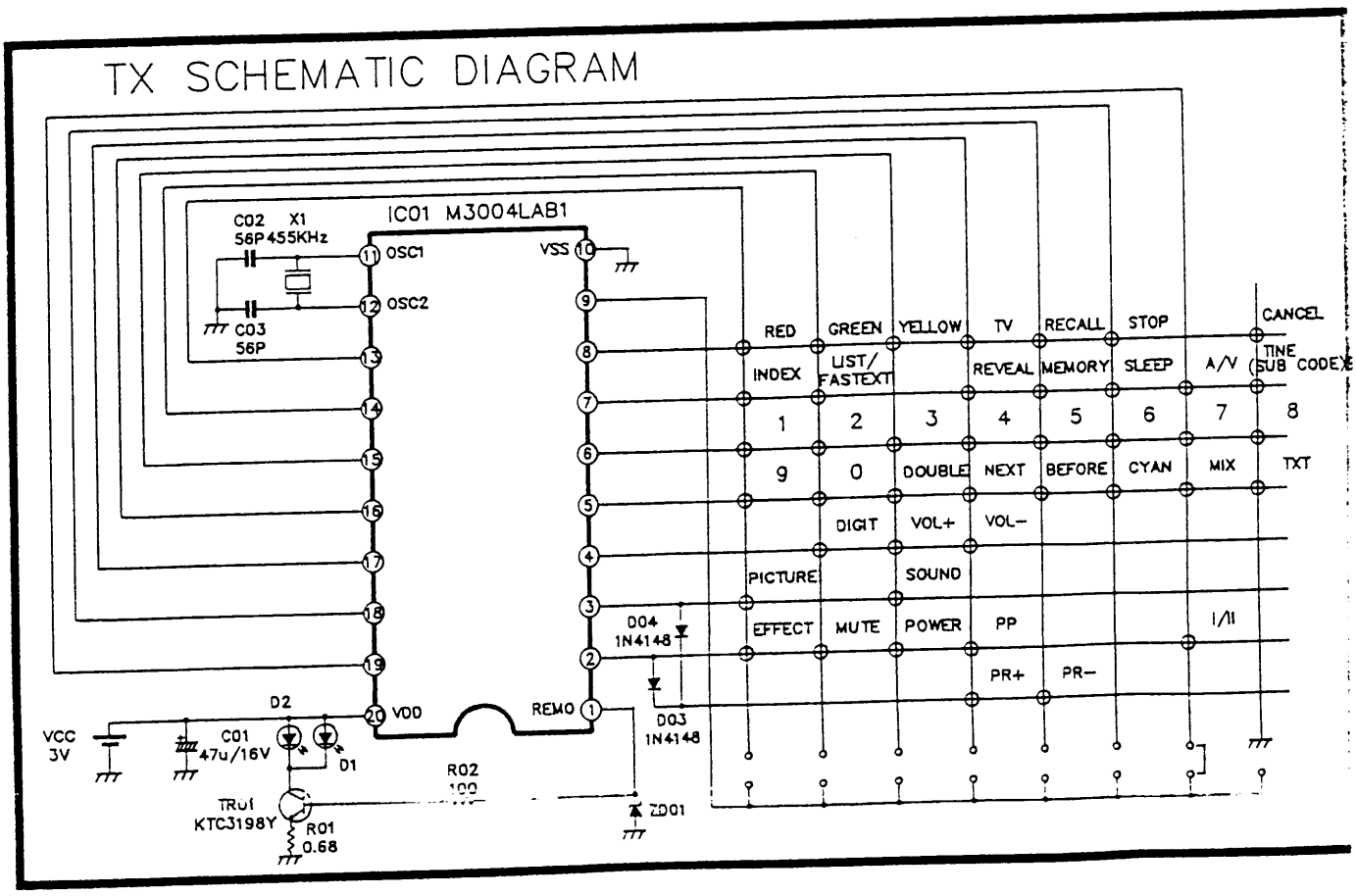
BLOCK DIAGRAM

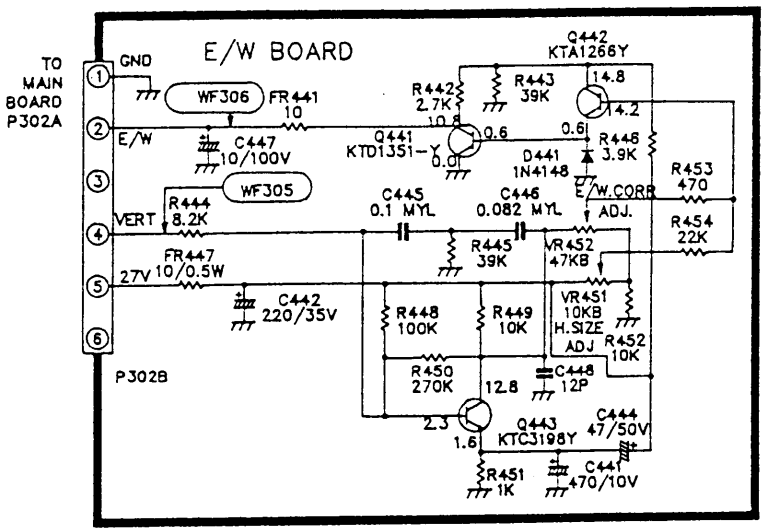


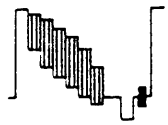
WIRING DIAGRAM



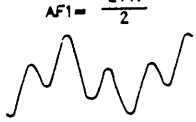
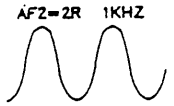
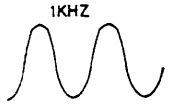

CPT BOARD
TO MAIN BOARD P504A
F/BACK
R
G
B
GND
12V
V/BLANK
WF901
WF902
WF903
WF904
WF905
ZD902 12V
VR901 1KB
R934 1K
R937 4.7K
R935 1K
R938 4.7K
VR902 1KB
R936 1K
C911 10/16V
D906 1N4148
Q914 KTC3198Y
R927 39K/0.5W
R901 15K/2W
Q901 KTC3229
Q911 BF421
D901 1N4148
C901 150P
R904 560
R907 180
R930 6.2K
Q904 BF422
R913 1K/0.5W
R910 33K
Q907 BF421
R916 1K/0.5W
R914 1K/0.5W
Q905 BF422
R902 15K/2W
R928 39K/0.5W
Q912 BF421
R911 33K
Q908 BF421
R917 1K/0.5W
D902 1N4148
Q902 KTC3229
R931 6.2K
C902 82P
R905 560
R908 180
R929 39K/0.5W
R903 15K/2W
Q903 KTC3229
Q913 BF421
R932 6.2K
D903 1N4148
C903 120P
R906 560
R909 180
R915 1K/0.5W
Q906 BF422
R912 33K
Q909 BF421
R918 1K/0.5W
C908 0.001/2KV
FR901 3.9/1W
C909 0.001/500V
R933 330K
Q915 KTA1266Y
R924 4.7K
R923 470
R919 5.6K
R920 4.7K
ZD901 5.6V
Q910 KTC3198-Y
C907 47/16V
200V
HEATER
SCREEN
FOCUS
ANODE
P903
CPT A66EAK51X01
P7018
TO MAIN BOARD P701A
TO MAIN BOARD FBT(T701)


TX SCHEMATIC DIAGRAM
IC01 M3004LAB1
C02 56P
X1 455KHz
C03 56P
OSC1
OSC2
VSS
VDD
REMO
D2
D1
C01 47u/16V
VCC 3V
R02 100
TR01 KTC3198Y
R01 0.68
ZD01
D04 1N4148
D03 1N4148
RED
GREEN
YELLOW
TV
RECALL
STOP
CANCEL
INDEX
LIST/ FASTEXT
REVEAL
MEMORY
SLEEP
A/V
TINE
SUB CODE
1
2
3
4
5
6
7
8
9
0
DOUBLE
NEXT
BEFORE
CYAN
MIX
TXT
DIGIT
VOL+
VOL-
PICTURE
SOUND
EFFECT
MUTE
POWER
PP
I/II
PR+
PR-



WF201 2.0Vp-p 	WF305 1.9Vp-p 	WF306 13.0Vp-p 		
WF603 550mVp-p 	WF604 1.5Vp-p 	WF605 1.5Vp-p 		
WF901 4.0Vp-p F/B 	WF902 4.0Vp-p R 	WF903 80Vp-p RK 	WF904 80Vp-p GK 	WF905 80Vp-p BK 

WHEN WE RELEIVE THE SIGNAL OF LEFT(3KHZ) AND RIGHT(1KHZ)

	STEREO	DUAL	MONO
WF601	AF1= $\frac{L+R}{2}$  1.5Vp-p	3KHZ  1.5Vp-p	3KHZ  1.5Vp-p
WF602	AF2=2R 1KHZ  1.5Vp-p	1KHZ  1.5Vp-p	

P/N : 484-799P(2/2)